SEAL SOURCE INC.™

HYDRAULIC SEALING COMPONENTS SPECIALISTS

Sealing Components Catalog Vol. 7







HYDRAULIC / PNEUMATIC / INCH / METRIC

www.sealsourceinc.com

Starred items are parts that are not generally stocked but are available. Because our inventory is always growing if you're in need of a part that is starred call customer service. It can become general stock at any time.

Original equipment part numbers and brand names are for reference purpose only. We do not imply that these items are the product of original equipment manufacturers.

The information stated is based on the knowledge gained through years of experience in the distribution and application of seals.

However, unknown factors in the application of seals can considerably change the conditions which may cause the above information to be invalid.

This edition supersedes all earlier editions.

Pricing subject to change without notice.

WARRANTY

It is expressly agreed that there are no warranties, expressed or implied, made by the seller on products, furnished, except the manufacturer's warranty against defective material or workmanship as follows: We guarantee our products to be free from defects in workmanship and materials. Our liability for breach of any and all warranties is limited to refunding our invoice price of the product, or at our own option, replacement of the material free of charge, including transportation charges but not cost of installation. The sale of Products under any other warranty or guarantee, expressed or implied, is not authorized by the company.

2026 SEAL CATALOG

- User friendly
- Improved format
- Expanded product range
- Complete technical data
- Tolerance machining details
- Hardware finishes and procedures
- Product capabilities and specifications
- Full application and information
- Compatibility tables for most polymers
- Complete item by item pricing for all products

Our Seal Source Inc. 2026 Parts catalog is the industry standard for selecting the most complete range of sealing systems and related components.

Only Seal Source can offer you all these benefits:

- On-line inventory network
- Experienced technical staff
- Sealing systems design
- Engineered technical support
- Top quality product lines
- Outstanding customer service
- Competitive shipping rates nation wide

Seal Source has additional services to help you meet the needs of all of your sealing and related component selection. Did you know we offer:

- In house custom seal fabrication
- Vulcanizing production facilities
- Prototype and production quantities for all catalog items
- Custom packaging and labeling services for specific customer requirements

Starred items are parts that are not generally stocked but are available. Because our inventory is always growing if you're in need of a part that is starred call customer service. It can become general stock at any time.

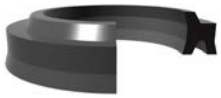
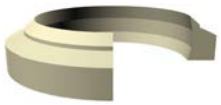
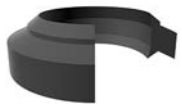
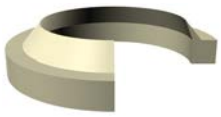
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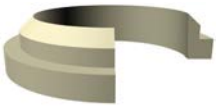
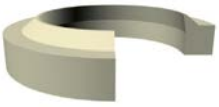
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	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
	SERVICES								i
INCH SIZE ROD WIPERS		**AN**		Polyurethane AU 90A	-40°F /+250°F -40°C /+120°C	N/A	<1.6 ft/s (0.5 m/s)	H	**A 2**
		**AN/V**		Fluorocarbon 90A	-20°F /+400°F -29°C /+204°C	N/A	<1.6 ft/s (0.5 m/s)	H/P	**A 5**
		**AN/P**		Poly-Orange	-65°F /+275°F -54°C /+135°C	N/A	<1.6 ft/s (0.5 m/s)	H	**A 7**
		**D**		Polyurethane AU 90A	-65°F /+200°F -54°C /+93°C	N/A	<1.6 ft/s (0.5 m/s)	H	**A 8**
		**D/V**		Fluorocarbon AU 90A	-20°F /+400°F -29°C /+204°C	N/A	<1.6 ft/s (0.5 m/s)	H/P	**A 12**
		**D/P**		Poly-Orange	-65°F /+275°F -54°C /+135°C	N/A	<1.6 ft/s (0.5 m/s)	H	**A 14**
		**D/520**		Hythane	-50°F /+230°F -45°C /+110°C	N/A	<12 ft/s (3.7 m/s)	H	**A 15**
		**D/820**		Hythane	-50°F /+230°F -45°C /+110°C	N/A	<12 ft/s (3.7 m/s)	H	**A 17**
		**D/842**		Hythane	-50°F /+230°F -45°C /+110°C	N/A	<12 ft/s (3.7 m/s)	H	**A 18**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE ROD WIPERS		**DX**		Lubrithane/ Nitrile	-40°F /+250°F -40°C /+120°C	N/A	<3.3 ft/s (1 m/s)	H	**A 19**
		**H**		Polyurethane 90A	-40°F /+225°F -40°C /+107°C	N/A	<1.6 ft/s (0.5 m/s)	H	**A 20**
		**H/N**		Nitrile	-40°F /+225°F -40°C /+107°C	N/A	<3.3 ft/s (1 m/s)	H/P	**A 22**
		**H/V**		Fluorocarbon	-20°F /+400°F -29°C /+204°C	N/A	<1.6 ft/s (0.5 m/s)	H/P	**A 25**
		**HBT**		Hythane	-50°F /+230°F -45°C /+110°C	N/A	N/A	H	**A 26**
		**K**		Polyurethane AU 90A	-40°F /+225°F -40°C /+107°C	N/A	<1.6 ft/s (0.5 m/s)	H	**A 27**
		**LDW**		Nitrile	-22°F /+212°F -30°C /+100°C	N/A	<10 ft/s (3 m/s)	H/P	**A 30**
		**COMMERCIAL INTERTECH**		Hytrel	-40°F /+300°F -40°C /+149°C	N/A	N/A	H	**A 32**
		**HYCO**		Hytrel	-40°F /+300°F -40°C /+149°C	N/A	N/A	H	**A 32**
		**PEABODY GALION**		Hytrel	-40°F /+300°F -40°C /+149°C	N/A	N/A	H	**A 33**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE ROD WIPERS		PERFECTION COBEY		Polyurethane	-40°F /+189°F -40°C /+87°C	N/A	N/A	H	A 33
		TRAILMOBILE		Hytrel	-40°F /+300°F -40°C /+149°C	N/A	N/A	H	A 34
		WARD		Polyurethane	-40°F /+189°F -40°C /+87°C	N/A	N/A	H	A 34
		D & K		Nitrile 85A	-30°F /+250°F -34°C /+121°C	N/A	N/A	H	A 35
		EX1		BR.PTFE/ Nitrile	-30°F /+250°F -34°C /+121°C	N/A	<13 ft/s (4 m/s)	H	A 36
		EX2 EX5		BR.PTFE/ Nitrile	-30°F /+250°F -34°C /+121°C	N/A	<13 ft/s (4 m/s)	H	A 39
		BW/S		Brass/Nitrile	-40°F /+240°F -40°C /+116°C	N/A	N/A	H	A 42
		FWR		Brass	N/A	N/A	N/A	H	A 47
		J		Polyurethane/ Steel	-40°F /+212°F -40°C /+100°C	N/A	<1.6 ft/s (0.5 m/s)	H	A 49
		J/N		Nitrile/ Steel	-40°F /+250°F -40°C /+121°C	N/A	<1.6 ft/s (0.5 m/s)	H	A 54

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE ROD WIPERS		**J/DL**		Polyurethane/ Steel	-65°F /+300°F -54°C /+149°C	N/A	<1.6 ft/s (0.5 m/s)	H	**A 57**
		**J-WR**		Polyurethane/ Steel	-22°F /+212°F -30°C /+100°C	N/A	<3.3 ft/s (1 m/s)	H	**A 59**
		**MPW**		Polyurethane/ Steel	-40°F /+212°F -40°C /+100°C	N/A	<3 ft/s (0.9 m/s)	H	**A 60**
		**WU**		Nitrile/Brass/ Steel	-40°F /+250°F -40°C /+121°C	N/A	N/A	H	**A 61**
		**WY**		Nylon	-40°F /+212°F -40°C /+100°C	N/A	<16.4 ft/s (5 m/s)	H	**A 62**
INCH SIZE ROD SEALS		**UR**		Polyurethane/ Steel	-20°F /+220°F -30°C /+100°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**B 2**
		**KR**		Polyurethane	-50°F /+180°F -46°C /+82°C	≤230 psi (≤20 bar)	<3 ft/s (0.9 m/s)	H	**B 9**
		**BS**		Polyurethane	-40°F /+230°F -40°C /+110°C	≤5800 psi (≤400 bar)	<1.6 ft/s (0.5 m/s)	H	**B 10**
		**BS/3L**		Polyurethane	-60°F /+250°F -51°C /+121°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**B 17**
		**BS/SL**		Nitrile 80A Fluorocarbon 90A	-40°F /+250°F -40°C /+121°C -20°F /+400°F -29°C /+204°C	≤1000 psi (≤69 bar) ≤2000 psi (≤137 bar)	<1.6 ft/s (0.5 m/s)	H/P	**B 18**

INCH SIZE ROD SEALS

Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
	**RU9**		Polyurethane AU 93A	-31 °F /+230 °F -35 °C /+110 °C	≤5800 psi (≤400 bar)	<1.6 ft/s (0.5 m/s)	H	**B 19**
	**621**		Polyurethane/ Polyacetal/ Nitrile/	-50 °F /+230 °F -46 °C /+110 °C	≤7500 psi (≤517 bar)	<1.5 ft/s (0.46 m/s)	H	**B 21**
	**BD**		30K Polyurethane AU 94A/ Nyloil/Nitrile	-31 °F /+250 °F -35 °C /+121 °C	≤10 000 psi (≤689 bar)	<1.6 ft/s (0.5 m/s)	H	**B 24**
	**DZ**		Polyurethane/ Nitrile Blue Lubrithane/ Nitrile	-60 °F to +210 °F (-51 °C to +99 °C) -65 °F /+250 °F -53 °C /+121 °C	≤5800 psi (≤400 bar) ≤6000 psi (≤414 bar)	<3.3 ft/s (1 m/s)	H	**B 25**
	**DZR**		Lubrithane/ Nitrile/Polyamide	-76 °F to +250 °F (-60 °C to +120 °C	≤10 000 psi (≤689 bar)	<3.3 ft/s (1 m/s)	H	**B 28**
	**ZA**		Lubrithane/ Nitrile	-60 °F /+250 °F -51 °C /+121 °C	≤6000 psi (≤414 bar)	<3.3 ft/s (1 m/s)	H	**B 29**
	**BR**		Polyurethane AU 90A/ Polyacetal	-65 °F /+275 °F -54 °C /+135 °C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**B 30**
	**BR-653**		Polyurethane/ Polyacetal	-50 °F /+230 °F -46 °C /+110 °C	≤10 000 psi (≤689 bar)	<3 ft/s (0.9 m/s)	H	**B 31**
	**HBY**		Polyurethane AU 94A/ Polyacetal	-40 °F /+230 °F -40 °C /+110 °C	≤8000 psi (≤552 bar)	<1.6 ft/s (0.5 m/s)	H	**B 32**
	**RBS**		Polyurethane AU 93A/ Polyacetal	-75 °F /+265 °F -60 °C /+130 °C	≤10 000 psi (≤689 bar)	<3.3 ft/s (1 m/s)	H	**B 33**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE ROD SEALS		**RDB**		Nitrile/ Nyloil	-40°F /+230°F -40°C /+110°C	≤10 000 psi (≤689 bar)	<3.3 ft/s (1 m/s)	H	**B 34**
		**SR3**		PTFE/ Nitrile Nyloil/ Nitrile	-40°F /+250°F -40°C /+120°C -40°F /+230°F -40°C /+110°C	≤5800 psi (≤400 bar) ≤7500 psi (≤517 bar)	<3.3 ft/s (1 m/s)	H	**B 35**
		**RSS**		BR.PTFE/ Nitrile	-30°F /+250°F -34°C /+121°C	≤5800 psi (≤400 bar)	<13 ft/s (4 m/s)	H	**B 36**
		**R2B**		BR.PTFE/ Nitrile	-30°F /+250°F -34°C /+121°C	≤5800 psi (≤400 bar)	<13 ft/s (4 m/s)	H	**B 42**
		**TR**		Nitrile/ Nylon	-40°F /+225°F -40°C /+107°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**B 45**
INCH SIZE SYMMETRICAL SEALS		**STD LOADED U-CUPS**		Polyurethane/ Nitrile	-40°F /+230°F -40°C /+110°C	≤5000 psi (≤345 bar)	<3.3 ft/s (1 m/s)	H	**C 4**
		**DEEP LOADED U-CUPS**		Polyurethane/ Nitrile	-40°F /+230°F -40°C /+110°C	≤5000 psi (≤345 bar)	<3.3 ft/s (1 m/s)	H	**C 16**
		**B LOADED U-CUPS**		Polyurethane/ Nitrile	-40°F /+230°F -40°C /+110°C	≤5000 psi (≤345 bar)	<3.3 ft/s (1 m/s)	H	**C 24**
		**MODULAR BACKUP**		Urethane AU 65D	-65°F /+250°F -54°C /+121°C	≤5000 psi (≤345 bar)	N/A	H	**C 40**
		**US**		Polyurethane AU 90A	-40°F /+212°F -40°C /+100°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**C 44**

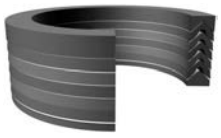
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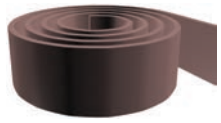
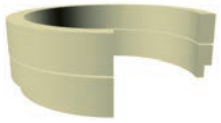
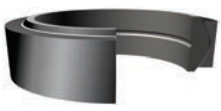
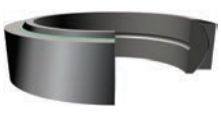
	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE SYMMETRICAL SEALS		**AN6226**		Nitrile 80A	-40°F /+250°F -40°C /+121°C	≤1250 psi (≤86 bar)	<1.6 ft/s (0.5 m/s)	H/P	**C 58**
		**8400**		Nitrile 80A Fluorocarbon	-40°F /+250°F -40°C /+121°C -5°F /+400°F -21°C /+204°C	Hydr. 1250 psi (86 bar) / Pneu. 250 psi (17 bar) Hydr. 2000 psi (138 bar) / Pneu. 250 psi (17 bar)	Hydr. 1.6 ft/s 0.5 m/s / Pneu. 3.3 ft/s 1 m/s Hydr. 1.6 ft/s 0.5 m/s / Pneu. 3.3 ft/s 1 m/s	H/P	**C 61**
INCH SIZE PISTON SEALS		**UP**		Polyurethane AU 92 A	-40°F /+212°F -40°C /+100°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**D 2**
		**KP**		Polyurethane AU 92 A	-50°F to +180°F (-46°C to +82°C)	≤230 psi (≤16 bar)	<3 ft/s (0.9 m/s)	H/P	**D 8**
		**CB**		Nitrile/ Steel	-40°F /+250°F -40°C /+121°C	≤150 psi (≤10 bar)	<3 ft/s (0.9 m/s)	H/P	**D 9**
		**CF**		Neo-Fabric	-40°F /+250°F -40°C /+121°C	≤3000 psi (≤210 bar)	<3 ft/s (0.9 m/s)	H	**D 11**
		**ECF**		Neo-Fabric	-40°F /+250°F -40°C /+121°C	≤3000 psi (≤210 bar)	<3 ft/s (0.9 m/s)	H	**D 14**
		**CH**		Nitrile 80/90A	-40°F /+250°F -40°C /+121°C	≤150 psi (≤10 bar)	<3 ft/s (0.9 m/s)	P	**D 15**
		**CS**		Polyurethane AU 90A	-65°F /+200°F -54°C /+93°C	≤1000 psi (≤70 bar)	<3 ft/s (0.9 m/s)	H	**D 18**
		**CT**		Polyurethane AU 90A	-65°F /+200°F -54°C /+93°C	≤1000 psi (≤70 bar)	<3 ft/s (0.9 m/s)	H/P	**D 20**

INCH SIZE PISTON SEALS

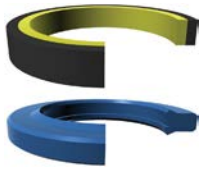
Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
	**TP TP/1 TP/2**		Nitrile/ Nylon	-72°F /+250°F -60°C /+120°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H/P	**D 22**
	**UNIRING**		Polyurethane AU 57A/AU 60D	-40°F /+250°F -40°C /+120°C	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)	H	**D 26**
	**P2U**		Polyurethane/ Nitrile	-65°F /+220°F -54°C /+104°C	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)	H	**D 28**
	**P2U - A - WB**		Polyurethane/ Nitrile	-40°F /+250°F -40°C /+120°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**D 32**
	**PIP RING**		Molythane AU 65D	-65°F /+200°F -54°C /+93°C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**D 34**
	**TFES**		GF.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)	H	**D 36**
	**TFES-U**		Polyurethane/ Nitrile	-40°F /+200°F -40°C /+93°C	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)		**D 38**
	**160G**		GF.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)	H	**D 40**
	**TFER/G**		GF.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)	H	**D 41**
	**CAT TYPE 1**		GF.PTFE/ Nitrile	-30°F /+230°F -34°C /+110°C	≤5800 psi (≤400 bar)	<12 ft/s (3.7 m/s)	H	**D 43**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE PISTON SEALS		**TFER/B**		BR.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)	H	**D 44**
		**TFER/U**		Polyurethane/ Nitrile	-40°F /+220°F -40°C /+104°C	≤5000 psi (≤345 bar)	<2 ft/s (0.6 m/s)	H	**D 46**
		**AQ**		BR.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<10 ft/s (3 m/s)	H	**D 48**
		**AQ5**		BR.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<10 ft/s (3 m/s)	H	**D 50**
		**PS2470**		BR.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)	H	**D 52**
		**P2B**		BR.PTFE/ Nitrile	-50°F /+250°F -45°C /+121°C	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)	H	**D 53**
		**P2G**		Nylon/ Nitrile	-22°F /+230°F -30°C /+110°C	≤11 600 psi (≤800 bar)	<3.3 ft/s (1 m/s)	H	**D 54**
		**CAT TYPE 3**		Nylon/ Nitrile	-40°F /+250°F -40°C /+121°C	≤7000 psi (≤483 bar)	<3.3 ft/s (1 m/s)	H	**D 56**
		**ZG**		Nylon/ Nitrile	-40°F /+250°F -40°C /+121°C	≤7000 psi (≤483 bar)	<3.3 ft/s (1 m/s)	H	**D 59**
		**CTS**		GF/M.PTFE/ Nylon/Nitrile	-20°F /+220°F -29°C /+104°C	≤6500 psi (≤450bar)	<5 ft/s (1.5 m/s)	H	**D 60**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE PISTON SEALS		**CAT TYPE 4**		GF/M.PTFE/ Nylon/Nitrile	-30 °F /+230 °F -34 °C /+110 °C	≤6500 psi (≤448 bar)	<5 ft/s (1.5 m/s)	H	**D 63**
		**P1000**		Cast or ductile Iron	N/A	N/A	N/A	H	**D 65**
		**P3C**		Neo-Fabric/ Polyamide	-22 °F /+212 °F -30 °C /+100 °C	≤10 000 psi (≤689 bar)	<1.6 ft/s (0.5 m/s)	H	**D 70**
		**P3D**		Nitrile/ Polyamide	-22 °F /+212 °F -30 °C /+100 °C	≤2300 psi (≤159 bar)	<1.6 ft/s (0.5 m/s)	H	**D 73**
		**P5B**		Nitrile/ Polyamide/ Polyester	-22 °F /+212 °F -30 °C /+100 °C	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	**D 75**
INCH SIZE VEE PACKINGS		**STANDARD VEE PACKING**		Neo-Fabric/Nylon/ Hytrel/Nitrile	-40 °F /+230 °F -40 °C /+110 °C	N/A	N/A	H	**E 2**
		**STANDARD VEE SETS**		Nylon/Hytrel/ Neo-Fabric	-40 °F /+250 °F -40 °C /+121 °C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**E 26**
		**MV6225**		Nitrile 80A PTFE	-40 °F /+250 °F -40 °C /+121 °C -100 °F /+400 °F -73 °C /+204 °C	≤1250 psi (≤85 bar) ≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s) <12 ft/s (3.7 m/s)	H	**E 30**
		**VEE COIL**		Neo-Fabric	-40 °F /+230 °F -40 °C /+110 °C	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**E 32**
		**W1, W2, W3 W4, WR**		GF.Nylon BR.PTFE	-40 °F /+275 °F -40 °C /+135 °C -148° F /+392 °F -100 °C /+200 °C	N/A	N/A	H/P	**F 2**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE GUIDING ELEMENTS		**W2-HP**		GF.Nylon	-40°F /+275°F -40°C /+135°C	N/A	N/A	H	**F 15**
		**W1, W2, W3 W4, WR - DX**		Polyester Resin	-22°F /+230°F -30°C /+110°C	≤52 213,6 psi (≤3600 bar) * Compressive strength	<4.92 ft/s (1.5 m/s)	H	**F 18**
		**TWR**		GF.Nylon	-40°F /+250°F -40°C /+121°C	N/A	N/A	H	**F 23**
		**WS-BR60**		60% BR.PTFE	-400°F /+550°F -240°C /+287°C	N/A	<50 ft/s (15 m/s)	H	**F 24**
		**WS-PR**		Polyester Resin	-40°F /+250°F -40°C /+121°C	N/A	N/A	H	**F 25**
		**BEARING TEL. CYLINDER**		Nylon	-40°F /+250°F -40°C /+121°C	N/A	N/A	H	**F 27**
		**54 BEARINGS**		Nylon	-40°F /+250°F -40°C /+121°C	N/A	N/A	H	**F 29**
		**"DU" BEARING**		BR.PTFE/Steel	-328°F /+536°F -200°C /+280°C	Compressive strength ≤44 000 psi (≤3035 bar)	<8.2 ft/s (2.5 m/s) dry <16 ft/s (5 m/s) lubricated	H	**F 36**
		**SBB/Z**		Carbon Chromium Steel (w/o) Seals)	-58°F /+302°F -50°C /+150°C	N/A	N/A	H	**F 39**
		**SBB-2RS/Z**		Carbon Chromium Steel (with Seals)	-22°F /+266°F -30°C /+130°C	N/A	N/A	H	**F 40**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE O'RINGS		**BASIC O'RING ELASTOMER**							G 2
		GENERAL PROPERTIES OF ELASTOMERS							G 8
		FLUID COMPATIBILITY TABLE							G 9
		O'RING DESIGN REFERENCE							G 12
		STATIC O'RING SEALING							G 13
		**2-XXX**		All compounds	N/A	N/A	N/A	H/P	G 16
		O'RING BOSS GASKETS							G 34
		**3-XXX**		All compounds	N/A	N/A	N/A	H/P	G 35
		**HS2 HEAD SEAL**		Polyurethane AU 92A	-40°F /+250°F (-40°C /+121°C)	≤5000 psi (≤345 bar)	N/A	H	G 36
		**O'RING KITS AND ACCESSORIES**							G 38

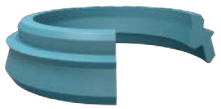
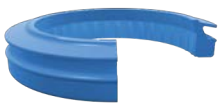
	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE O'RINGS		SFS PFS		Polyurethane	-40°F /+195°F (-40°C /+90°C) -40°F /+212°F (-40°C /+100°C)	≤3000 psi (≤207 bar) ≤7250 psi (≤500 bar)	N/A	H/P	G 40
		O'RING CORD		All compounds	N/A	N/A	N/A	H/P	G 41
		VULCANIZED O'RING		All compounds	N/A	N/A	N/A	H/P	G 42
		8-XXX		All compounds	N/A	N/A	N/A	H/P	G 46
		SD/N, ST/N, SD/T, ST/T		Nylon V.PTFE	-40°F /+250°F (-40°C /+121°C) -320°F /+450°F (-196°C /+232°C)	N/A	N/A	H/P	G 50
		8700		Poly-Orange SD/P V.PTFE SD/T	-65°F to +275°F (-54°C to +135°C) -320°F to +450°F (-196°C /+232°C)	N/A	N/A	H/P	G 63
		PG GASKET		N-8090 Reinforced Fiber	N/A	N/A	N/A	H/P	G 65
	BONDED SEALS - REFERENCE CHART								G 66
	BONDED SEALS - TYPICAL APPLICATIONS								G 68
		BS400		Carbon Steel/ Nitrile	-65°F /+225°F (-54°C /+107°C)	N/A	N/A	H/P	G 69

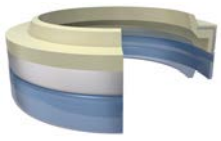
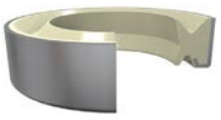
	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
INCH SIZE O'RINGS		BS400SC		Carbon Steel/ Nitrile	-65°F /+225°F (-54°C /+107°C)	N/A	N/A	H/P	G 70
		600 STAT-O-SEAL		Zinc Plated Steel/ Nitrile	-30°F /+225°F (-34°C /+107°C)	N/A	N/A	H/P	G 71
		7500 THREADSEAL		Steel/ Nitrile	-30°F /+225°F (-34°C /+107°C)	N/A	N/A	H/P	G 72
MISCELLANOUS ACCESSORIES		CAPS & PLUGS						H	H 2
	RETAINING RINGS PROFILES								H 8
		N1300 INTERNAL		Carbon Steel	N/A	N/A	N/A	H	H 9
		N1400 EXTERNAL		Carbon Steel	N/A	N/A	N/A	H	H 10
	RETAINING RINGS SELECTION GUIDE								H 12
		VH INTERNAL		Carbon Steel	N/A	N/A	N/A	H/P	H 15
		WH INTERNAL		Carbon Steel	N/A	N/A	N/A	H/P	H 17

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
MISCELLANOUS ACCESSORIES		**WHM INTERNAL**		Carbon Steel	N/A	N/A	N/A	H/P	**H 21**
		**WHT INTERNAL**		Carbon Steel	N/A	N/A	N/A	H/P	**H 24**
		**VS EXTERNAL**		Carbon Steel	N/A	N/A	N/A	H/P	**H 26**
		**WS EXTERNAL**		Carbon Steel	N/A	N/A	N/A	H/P	**H 28**
		**WSM EXTERNAL**		Carbon Steel	N/A	N/A	N/A	H/P	**H 32**
		**WST EXTERNAL**		Carbon Steel	N/A	N/A	N/A	H/P	**H 35**
		**TYPE A V-RING**		Nitrile 65D Fluorocarbon 63D	N/A	N/A	N/A	H/P	**H 39** **H 41**
		**TYPE L V-RING**		Nitrile 65D Fluorocarbon 63D	N/A	N/A	N/A	H/P	**H 43** **H 45**
		**TYPE S V-RING**		Nitrile 65D Fluorocarbon 63D	N/A	N/A	N/A	H/P	**H 46** **H 47**
		**HARDENED STEEL SHIMS**		Hardened Steel	N/A	N/A	N/A	H	**H 49**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
MISCELLANOUS ACCESSORIES		HARDENED STEEL WASHER		Hardened Steel	N/A	N/A	N/A	H	H 50
		NYLON PLUG		Nylon	N/A	N/A	N/A		H 51
		COTTER PIN		Steel	N/A	N/A	N/A	H	H 51
		ROLL PIN FASTENER		Steel	N/A	N/A	N/A	H	H 51
		STEEL CHROME BALLS		Steel	N/A	N/A	N/A		H 52
		HYDRAULIC WAVE SPRING		Carbon Steel	N/A	N/A	N/A	H	H 52
		SPU SHIPPING PLATE		Forged Steel	N/A	N/A	N/A		H 54
METRIC SIZE ROD WIPERS		WA/N		Nitrile 90A	-40°F /+212°F (-40°C /+100°C)	N/A	<2.6 ft/s (0.8 m/s)	H/P	I 2
		WA/U		Polyurethane AU 90A	-22°F /+212°F (-30°C /+100°C)	N/A	<2.6 ft/s (0.8 m/s)	H/P	I 6
		WB/N - WB/U		Nitrile 90A Polyurethane AU 90A	-40°F /+212°F (-40°C /+100°C) -22°F /+212°F (-30°C /+100°C	N/A	<2.6 ft/s (0.8 m/s) <2.6 ft/s (0.8 m/s)	H/P	I 8

METRIC SIZE ROD WIPERS

Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
	**WC**		Nitrile 90A	-40°F /+212°F (-40°C /+100°C)	N/A	<2.6 ft/s (0.8 m/s)	H	**I 10**
	**WC/U**		Polyurethane AU 90A	-22°F /+212°F (-30°C /+100°C)	N/A	<2.6 ft/s (0.8 m/s)	H/P	**I 13**
	**WF**		Polyurethane AU 94A	-22°F /+212°F (-30°C /+100°C)	N/A	<3.3 ft/s (1 m/s)	H/P	**I 21**
	**WG**		Polyurethane AU 92A	-22°F /+212°F (-30°C /+100°C)	N/A	<1.6 ft/s (0.5 m/s)	H	**I 23**
	**WG24**		Polyurethane AU 92A	-31°F /+212°F -35°C /+100°C	N/A	<3.3 ft/s (1 m/s)	H	**I 26**
	**SCK**		Nitrile	-49°F /+212°F (-45°C /+100°C)	N/A	<3.3 ft/s (1 m/s)	H	**I 27**
	**WH**		Nylon	-22°F /+212°F (-30°C /+100°C)	N/A	<3 ft/s (0.9 m/s)	H	**I 28**
	**WJ**		Nitrile 90A	-22°F /+212°F (-30°C /+100°C)	N/A	<1.6 ft/s (0.5 m/s)	H/P	**I 29**
	**WM**		Polyurethane	-40°F /+212°F (-40°C /+100°C)	N/A	<13 ft/s (4 m/s)	H	**I 32**
	**WM/842**		Hythane	-49°F /+230°F (-45°C /+110°C)	N/A	<13 ft/s (4 m/s)		**I 33**

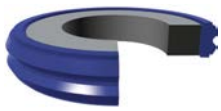
	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
METRIC SIZE ROD WIPERS		**WN**		Nitrile/ Steel	-40°F /+212°F (-40°C /+100°C)	N/A	<13 ft/s (4 m/s)	H	**I 36**
		**WO**		Polyurethane/ Steel	-22°F /+212°F (-30°C /+100°C)	N/A	<3.3 ft/s (1 m/s)	H	**I 42**
		**WR**		Polyurethane/ Steel	-22°F /+212°F (-30°C /+100°C)	N/A	<3.3 ft/s (1 m/s)	H	**I 47**
		**W12**		Polyurethane/ Steel	-40°F /+212°F (-40°C /+100°C)	N/A	<3.3 ft/s (1 m/s)	H	**I 50**
		**WDL**		Polyurethane/ Steel	-65°F /+212°F (-54°C /+100°C)	N/A	<3 ft/s (0.9 m/s)	H	**I 51**
		**WS**		Polyurethane/ Steel	-22°F /+212°F (-30°C /+100°C)	N/A	<3.3 ft/s (1 m/s)	H	**I 52**
		**WT**		Polyurethane/ Steel	-22°F /+212°F (-30°C /+100°C)	N/A	N/A	H	**I 56**
		**WT/N**		Nitrile/ Steel	-31°F /+212°F (-35°C /+100°C)	N/A	N/A	H	**I 58**
		**WV**		40% BR.PTFE/ Nitrile	-50°F /+250°F (-45°C /+121°C)	N/A	<50 ft/s (15 m/s)	H	**I 60**
		**WW**		40% BR.PTFE/ Nitrile Polyurethane/ Nitrile	-50°F /+250°F (-45°C /+121°C) -40°F /+230°F (-40°C /+110°C	N/A	<50 ft/s (15 m/s) <3.3 ft/s (1 m/s)	H	**I 62**

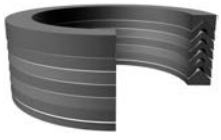
	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
METRIC SIZE ROD WIPERS		**WZ**		Nitrile/ Steel	-52 °F /+176 °F (-30 °C /+105 °C)	≤232 psi (≤16 bar)	<3.3 ft/s (1 m/s)	P	**I 64**
		**W6**		Polyurethane AU 94A	-31 °F /+230 °F (-35 °C /+110 °C)	N/A	<3.3 ft/s (1 m/s)	H	**I 65**
METRIC SIZE ROD SEALS		**RA**		Polyurethane AU 94A	-31 °F /+212 °F (-35 °C /+110 °C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	**J 2**
		**RA/N**		Nitrile 85A	-40 °F /+212 °F (-40 °C /+100 °C)	≤2300 psi (≤160 bar)	<1.6 ft/s (0.5 m/s)	H	**J 12**
		**RA-E**		Polyurethane AU 94A	-22 °F /+212 °F (-30 °C /+100 °C)	≤5800 psi (≤400 bar)	<1.6 ft/s (0.5 m/s)	H	**J 18**
		**RC**		Polyurethane AU 93A	-31 °F /+212 °F (-35 °C /+100 °C)	≤5800 psi (≤400 bar)	<1.6 ft/s (0.5 m/s)	H	**J 23**
		**RC/3L**		Polyurethane AU 92A	-50 °F /+230 °F (-45 °C /+110 °C)	≤3626 psi (≤250 bar)	<1.6 ft/s (0.5 m/s)	H	**J 33**
		**RE**		Polyurethane/ Polyacetal/Nitrile	-50 °F /+230 °F (-46 °C /+110 °C)	≤7500 psi (≤517 bar)	<1.5 ft/s (0.46 m/s)	H/P	**J 34**
		**BD**		30K Polyurethane AU 94/ Nyloil/ Fluorocarbon	-31 °F /+250 °F (-35 °C /+121 °C)	≤10 000 psi (≤689 bar)	<1.6 ft/s (0.5 m/s)	H	**J 37**
		**RH**		Polyurethane AU 94A/ Polyacetal	-31 °F /+212 °F (-35 °C /+100 °C)	≤5800 psi (≤400 bar)	<3.3 ft/s (1 m/s)	H	**J 38**

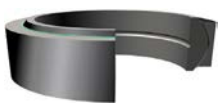
METRIC SIZE ROD SEALS

Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
	**RR**		Nitrile/Fabric/ Polyacetal	-22 °F /+212 °F (-30 °C /+100 °C)	≤5800 psi (≤400 bar)	<1.6 ft/s (0.5 m/s)	H/P	**J 40**
	**RV**		Nitrile/Neo-Fabric/ Polyacetal	-22 °F /+212 °F (-30 °C /+110 °C)	≤10 000 psi (≤689 bar)	<1.6 ft/s (0.5 m/s)	H/P	**J 45**
	**RX**		BR.PTFE/ Nitrile	-50 °F /+250 °F (-45 °C /+121 °C)	≤5800 psi (≤400 bar)	<16 ft/s (5 m/s)	H	**J 48**
	**RZ**		BR.PTFE/ Nitrile	-50 °F /+250 °F (-45 °C /+121 °C)	≤5800 psi (≤400 bar)	<16 ft/s (5 m/s)	H	**J 51**
	**R5/U**		Polyurethane AU 93A	-31 °F /+176 °F (-35 °C /+80 °C)	≤300 psi (≤20 bar)	<3.3 ft/s (1 m/s)	P	**J 55**
	**R6**		Polyurethane AU 93A	-50 °F /+180 °F (-45 °C /+80 °C)	≤230 psi (≤15 bar)	<3.3 ft/s (1 m/s)	P	**J 56**
	**R8**		Polyurethane AU 92A	-22 °F /+176 °F (-30 °C /+80 °C)	≤232 psi (≤16 bar)	<3.3 ft/s (1 m/s)	H	**J 57**
	**R12**		Nylon/PTFE/ Nitrile	-40 °F /+220 °F (-40 °C /+104 °C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)	H/P	**J 58**
	**R13**		Polyurethane AU 93A	-31 °F /+230 °F (-35 °C /+110 °C)	≤14 504 psi (≤1000 bar)	<1.6 ft/s (0.5 m/s)	H	**J 59**
	**R14**		BR.PTFE/ Nitrile	-40 °F /+220 °F (-40 °C /+104 °C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)	H	**J 60**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
METRIC SIZE ROD SEALS		**R19**		Polyurethane AU 94A	-22°F /+176°F (-30°C /+80°C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**J 62**
		**R20**		Polyurethane AU 92A	-40°F /+250°F (-40°C /+121°C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)	H	**J 63**
		**RI**		Polyacetal	-22°F /+212°F (-30°C /+100°C)	N/A	N/A	H	**J 64**
METRIC SIZE SYMMETRICAL SEALS		**A**		Polyurethane AU 92A	-22°F /+212°F (-30°C /+100°C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**K 2**
		**B**		Polyurethane/ Nitrile	-40°F /+230°F (-40°C /+110°C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**K 14**
METRIC SIZE PISTON SEALS		**PB**		Polyurethane AU 92A	-40°F /+212°F (-40°C /+100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	**L 2**
		**PB/N**		Nitrile 85A	-22°F /+176°F (-30°C /+80°C)	≤2300 psi (≤159 bar)	<1.6 ft/s (0.5 m/s)	H/P	**L 15**
		**PH**		Nitrile/ Nylon	-20°F /+220°F (-29°C /+104°C)	≤3000 psi (≤205 bar)	<1.6 ft/s (0.5 m/s)	H	**L 19**
		**PM**		Nitrile 70A	-20°F /+220°F (-29°C /+104°C)	≤174 psi (≤12 bar)	<3.3 ft/s (1 m/s)	P	**L 20**
		**PR**		Nitrile/ Neo-Fabric/ Polyamide	-22°F /+212°F (-30°C /+100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	**L 21**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
METRIC SIZE PISTON SEALS		**PZ**		Cast Iron	N/A	N/A	N/A	H	**L 23**
		**PZ/B**		Bronze - 660	N/A	N/A	N/A	H	**L 25**
		**P1B**		Nitrile/Steel	-40°F /+250°F (-40°C /+121°C)	≤235 psi (≤16 bar)	<3.3 ft/s (1 m/s)	H/P	**L 26**
		**P2B**		BR.PTFE/ Nitrile	-50°F /+250°F (-45°C /+121°C)	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)	H	**L 28**
		**P2U**		Polyester /Nitrile	-40°F /+230°F (-40°C /+110°C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)	H	**L 34**
		**ST/GFN**		GF.Nylon	-40°F /+250°F (-40°C /+121°C)	N/A	N/A	H/P	**L 36**
		**P2E**		Polyurethane/ Nitrile	-22°F /+212°F (-30°C /+100°C)	≤5800 psi (≤400 bar)	<1.5 ft/s (0.46 m/s)	H	**L 37**
		**P2G**		Nylon/ Nitrile	-22°F /+230°F (-30°C /+110°C)	≤7250 psi (≤500 bar)	<3.3 ft/s (1 m/s)	H	**L 39**
		**CAT TYPE 3**		Nylon/ Nitrile	-22°F /+230°F (-30°C /+110°C)	≤7250 psi (≤500 bar)	<3.3 ft/s (1 m/s)	H	**L 41**
		**P3C**		Neo-Fabric/ Polyamide	-22°F /+212°F (-30°C /+100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	**L 43**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
METRIC SIZE PISTON SEALS		P3D		Nitrile/ Polyamide	-22°F /+212°F (-30°C /+100°C)	≤2500 psi (≤160 bar)	<1.6 ft/s (0.5 m/s)	H	L 45
		P4A		PTFE/ Nitrile/ Nylon	-20°F /+220°F (-29°C /+104°C)	≤6500 psi (≤450 bar)	<5 ft/s (1.5 m/s)	H	L 46
		P5B		Nitrile/ Polyamide/ Polyester	-22°F /+212°F (-30°C /+100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	L 48
METRIC SIZE VEE PACKINGS		V1		Neo-Fabric/ Polyamide	-22°F /+212°F (-30°C /+100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	M 2
		V2-V3-V4-V5		Neo-Fabric/ Polyamide/Nitrile	-22°F /+212°F (-30°C /+100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)	H	M 4
METRIC SIZE GUIDING ELEMENTS	GUIDING ELEMENTS INFO								N 2
		GA		Polyamide	-40°F /+230°F (-40°C /+110°C)	N/A	<16 ft/s (5 m/s)	H	N 3
		GB		BR.PTFE	-40°F /+250°F (-40°C /+121°C)	N/A	<13 ft/s (4 m/s)	H	N 5
		GB/N		GF.Nylon	-40°F /+275°F (-40°C /+135°C)	N/A	<3 ft/s (0.9 m/s)	H	N 9
		GB/N - HP		GF.Nylon	-40°F /+275°F (-40°C /+135°C)	N/A	N/A	H	N 12

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
METRIC SIZE GUIDING ELEMENTS		**GC**		Polyester Resin	-22 °F to +230 °F (-30 °C to +110 °C)	Compressive strength ≤52 214 psi (≤3600 bar)	<4.92 ft/s (1.5 m/s)	H	**N 13**
		**WS-BR60**		60% BR.PTFE	-400 °F /+550 °F (-240 °C /+287 °C)	≤1400 psi (≤96 bar)	<50 ft/s (15 m/s)	H	**N 21**
		**WS-PR**		Polyester Resin	-40 °F /+250 °F (-40 °C /+121 °C)	Compressive strength ≤60 000 psi (≤4138 bar)	<3.3 ft/s (1 m/s)	H	**N 23**
		**WS-PR-BOX**		Polyester Resin	-40 °F /+250 °F (-40 °C /+121 °C)	Compressive strength ≤60 000 psi (≤4138 bar)	<3.3 ft/s (1 m/s)	H	**N 25**
		**WS-C**		25% Carbon Graphite PTFE	-400 °F /+545 °F (-240 °C /+285 °C)	N/A	<49.21 ft/s (15 m/s)	H	**N 26**
		"DV" BEARING CHART							**N 28**
		**"DV" BEARING**		BR.PTFE/ Steel	-328 °F /+536 °F (-200 °C /+280 °C)	Compressive strength ≤44 000 psi (≤3035 bar)	<8.2 ft/s (2.5 m/s) dry <33 ft/s (10 m/s) lubricated	H	**N 30**
		**GE**		Nylon Polyester Resin Bronze	-40 °F /+250 °F (-40 °C /+121 °C) -22 °F /+212 °F (-30 °C /+100 °C N/A	≤5000 psi (≤345 bar) ≤5000 psi (≤345 bar) N/A	N/A	H	**N 33**
		**GE-ES/Z**		Carbon Chromium Steel (w/o Seals)	-58 °F to +302 °F (-50 °C to +150 °C)	N/A	N/A	H	**N 34**
		**GE-ES2RS/Z**		Carbon Chromium Steel (with Seals)	-22 °F /+266 °F (-30 °C /+130 °C)	N/A	N/A	H	**N 36**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
		**GE-GS/Z**		Carbon Chromium Steel (w/o Seals)	-58°F to +302°F (-50°C to +150°C)	N/A	N/A	H	**N 37**
		**GE-EG2RS/Z**		Carbon Chromium Steel (with Seals)	-22°F /+266°F (-30°C /+130°C)	N/A	N/A	H	**N 38**
METRIC SIZE O'RINGS	**TOLERANCE TO DIN 3771 & ISO 3601/1**								**O 2**
	O'RING INSTALLATION DIMENSIONS								**O 3**
		**METRIC O'RINGS - NBR 70A**	●	Nitrile 70A	-30°F /+250°F (-34°C /+121°C)	N/A	N/A	H/P	**O 4**
	O'RING CHART JIS B2401								**O 43**
		**METRIC O'RINGS - NBR 90A**	●	Nitrile 90A	-30°F /+250°F (-34°C /+121°C)	N/A	N/A	H/P	**O 45**
		**METRIC O'RINGS - AU**	●	Polyurethane AU 90A	-60°F /+250°F (-51°C /+121°C)	N/A	N/A	H/P	**O 51**
METRIC SIZE O'RINGS		**METRIC O'RINGS - SI 72**	●	Silicone 72	-65°F /+450°F (-54°C /+232°C)	N/A	N/A	H/P	**O 52**
		**METRIC O'RINGS - FPM 70**	●	Fluorocarbon 70	-13°F /+428°F (-25°C /+220°C)	N/A	N/A	H/P	**O 53**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
		**METRIC O'RINGS - FPM 90**	●	Fluorocarbon 90	-13°F /+428°F (-25°C /+220°C)	N/A	N/A	H/P	**0 56**
		**METRIC O'RING CORD**	●	All compounds	N/A	N/A	N/A	H/P	**0 57**
		**O'RING KITS AND ACCESSORIES**							**0 58**
		**HEAD SEALS**	▬	Polyurethane AU 92A	-40°F /+250°F (-40°C /+121°C)	≤5000 psi (≤345 bar)	N/A	H	**0 59**
		**SD/T & ST/T**	▭	V.PTFE	-320°F /+450°F (-196°C /+232°C)	N/A	N/A	H/P	**0 63**
		**SD/U**	▬	Polyurethane AU 95A	-40°F /+195°F (-40°C /+91°C)	N/A	N/A	H/P	**0 67**
		**SD/N & ST/N**	▬	Nylon	-40°F /+250°F (-40°C /+121°C)	N/A	N/A	H/P	**0 70**
		**KR**	▬	Polyacetal	-22°F /+212°F (-30°C /+100°C)	N/A	N/A	H	**0 77**
METRIC SIZE O'RINGS		**USIT RINGS**	▬	Carbon Steel/ Nitrile	-65°F /+225°F (-54°C /+107°C)	N/A	N/A	H	**0 78**
	USIT RINGS REFERENCE TABLE								**0 80**

	Product Image	Series	Profile	Material	Temperature Range	Pressure Range	Surface Speed	H/P	Page
		**ED - DIN CONNECTOR RINGS**		Nitrile Fluorocarbon Ethylene Propylene	-22°F /+212°F (-30°C /+100°C) -4°F /+392°F (-20°C /+200°C) -49°F /+302°F (-45°C /+150°C)	N/A	N/A	H	**0 81**
TECHNICAL INFORMATION	**CREDIT APPLICATION FORM**								**Tech 2**
	SEAL APPLICATION REQUEST								**Tech 3**
	SPECIALITY SEAL MANUFACTURING SERVICES								**Tech 4**
	SELECTING CHART FOR SEAL								**Tech 5**
	MATERIAL FOR SEALING								**Tech 6**
	GLOSSARY								**Tech 7**
	ISO METRIC TOLERANCE CHART								**Tech 12**
	O'RING SIZE CHART - INCH								**Tech 20**
	CONVERSION TABLE INCH/METRIC								**Tech 22**
	NOTES								**Tech 24**

Manufacturing Services

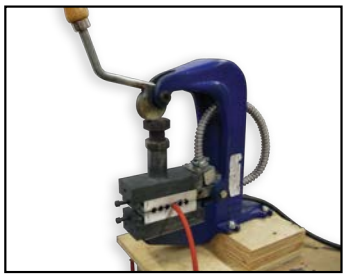
Vulcanizing Center



Our vulcanizing center offers you an economical and fast solution for your non-standard and large diameter o'ring requirements. with the use of standard cord stock, vulcanized O'rings offer you a dimensionally custom-made solid ring using a hot-bonded process. The splice-and jointed area of the ring offers full flexibility and allows for a reliable sealing performance.

We carry an extensive inventory of standard o'ring cord in both inch and metric cross-section, We also have acess to a large variety of materials, other standard shapes of cord and tubing as well as custom made extruded profiles.









Precision Split Oil Seal

We offer split-to-measure oil seals for rapid on-site installation without requiring equipment disassembly.

Split Vee-Packings Sets

Our pre-cut vee-packing sets allow for quick turnaround time for seal assemblies that are of non-standard diameters or of oversized dimensions.



Manufacturing Services

Cut gaskets







Our gasket cutting facility offers you precut gaskets in a variety of brand names, materials and manufacturing processes.

Materials:
Rubber
Polyurethane
Non-Asbestos
PTFE
Cork
Felt
Sponge
Foam
Gore Tex
And more

Services:
Die cutting services
Hand cutting services
Custom stripping
Short yardage

All our gaskets are made to the customer's exact specification. We also offer design and engineering assistance in order to assist you in finding the best solution for each of your gasketing requiremenats.



Custom kitting and labeling

Custom kitting, boxing and labeling is available to facilitate your assembly line or your aftermarket sales network. Our custom labeling can also include your corporate logo, part numbers, or any other personalized identification.

Services



Engineering / Technical support

Our technical representatives are there to help you in your design or solving your applications problems.

With our expertise, large product offering and renowed supplier we have the solution.

We can also offer to our customer product-training seminars and we have regional training programs that are scheduled on a continous basis.

Customer Service

Since 1995, we are dedicated to outstanding customer service qualified employees will be happy meet your requirements. From urgent daily orders to custom solutions we are ready to meet the challenge.



Inventory

We offer the most comprehensive range of sealing components and replacement packing kits in the marketplace soon made Seal Source the supplier of choice across the Pacific Northwest. We have since grown and expanded its products and services to encompass the entire domestic market.



Quality products

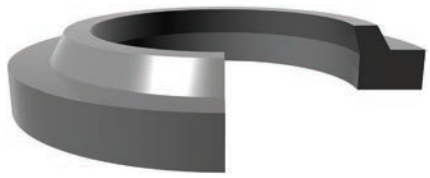
We are proud to represemt world-renown leaders in the field of industrial sealing as their franchised distributor, insuring our customers that the products that we distribute and manufacture are the best quality found in the industry today. We have rigourous quality standard our suppliers are required to meet exceed strict inspections for tolerance and material standards.



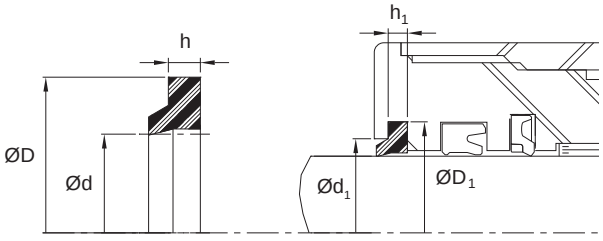
	AN	A	2
	AN/V	A	5
	AN/P	A	7
	D	A	8
	D/V	A	12
	D/P	A	14
	D/520	A	15
	D/820	A	17
	D/842	A	18
	DX	A	19
	H	A	20
	H/N	A	22
	H/V	A	25
	HBT	A	26
	K	A	27
	LDW	A	30
	COMMERCIAL INT.	A	32

	HYCO	A	32
	P. GALION	A	33
	P. COBEY	A	33
	TRAILMOBILE	A	34
	WARD	A	34
	D & K WIPER CORD	A	35
	EX1	A	36
	EX2 - EX5	A	39
	BW/S	A	42
	FWR	A	47
	J	A	49
	J/N	A	54
	J/DL	A	57
	J-WR	A	59
	MPW	A	60
	WU	A	61
	WY	A	62

AN - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Polyurethane	-40°F to +250°F (-40°C to +120°C)	<1.6 ft/s (0.5 m/s)



AN-style rod wipers are designed to ensure proper fit with all MS-28776 (MS-33675) dash size grooves. The slotted heel design (when available) prevents pressure traps from forming between the rod seal and wiper. This profile of wiper requires very little radial or axial space. This is why they are ideal in light to medium duty hydraulic and pneumatic applications where such space constraints are present.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-01	**0.500**	+.000 -.002	0.500	0.766	0.104	0.647	+.005 -.000	0.760	+.004 -.000	0.107	+.003 -.003	1.75
AN-02	**0.562**		0.562	0.829	0.104	0.710		0.823		0.107		1.75
AN-03	**0.625**		0.625	0.891	0.104	0.772		0.885		0.107		1.75
AN-04*	**0.687**		0.687	0.954	0.104	0.834		0.948		0.107		1.75
AN-05	**0.750**		0.750	1.016	0.104	0.897		1.010		0.107		1.84
AN-06	**0.812**		0.812	1.090	0.104	0.960		1.084		0.107		1.86
AN-07	**0.875**		0.875	1.153	0.104	1.023		1.147		0.107		1.86
AN-08	**0.937**		0.937	1.215	0.104	1.085		1.209		0.107		1.86
AN-09	**1.000**		1.000	1.278	0.104	1.148		1.272		0.107		1.86
AN-10	**1.062**		1.062	1.340	0.104	1.210		1.334		0.107		1.91
AN-11	**1.125**		1.125	1.403	0.104	1.273		1.397		0.107		1.94
AN-12	**1.187**		1.187	1.465	0.104	1.335		1.459		0.107		1.94
AN-13	**1.250**		1.250	1.528	0.104	1.398		1.522		0.107		2.01
AN-14	**1.312**		1.312	1.622	0.104	1.480		1.614		0.107		2.49
AN-15	**1.375**		1.375	1.685	0.104	1.542		1.677		0.107		2.78
AN-16	**1.437**		1.437	1.747	0.104	1.605		1.739		0.107		2.98
AN-17	**1.500**		1.500	1.810	0.104	1.668		1.802		0.107		3.00
AN-M*	**1.562**		1.562	1.872	0.104	1.730		1.864		0.107		3.11
AN-18	**1.625**		1.625	1.935	0.104	1.793		1.927		0.107		3.11
AN-19	**1.750**		1.750	2.060	0.104	1.918		2.052		0.107		3.18
AN-A*	**1.812**		1.812	2.123	0.104	1.981		2.115		0.107		3.20
AN-20	**1.875**		1.875	2.185	0.104	2.043		2.177		0.107		3.20

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-21	**2.000**	+.000 -.002	2.000	2.310	0.104	2.178	+.005 -.000	2.302	+.004 -.000	0.107	+.003 -.003	3.22
AN-B*	**2.062**		2.062	2.373	0.104	2.241		2.365		0.107		3.28
AN-22	**2.125**		2.125	2.435	0.104	2.303		2.427		0.107		3.28
AN-23	**2.250**		2.250	2.560	0.104	2.428		2.552		0.107		3.39
AN-C*	**2.312**		2.312	2.622	0.104	2.490		2.614		0.107		3.52
AN-24	**2.375**		2.375	2.685	0.104	2.553		2.677		0.107		3.52
AN-CC*	**2.437**		2.437	2.748	0.104	2.616		2.740		0.107		3.84
AN-25	**2.500**		2.500	2.810	0.104	2.678		2.802		0.107		3.84
AN-D*	**2.562**		2.562	2.873	0.104	2.741		2.865		0.107		4.26
AN-26	**2.625**		2.625	2.999	0.119	2.834		2.989		0.122		4.26
AN-27	**2.750**		2.750	3.124	0.119	2.959		3.114		0.122		4.69
AN-28	**2.875**		2.875	3.249	0.119	3.084		3.239		0.122		4.74
AN-29	**3.000**		3.000	3.374	0.119	3.209		3.364		0.122		4.74
AN-30	**3.125**		3.125	3.499	0.119	3.334		3.489		0.122		4.74
AN-31	**3.250**		3.250	3.624	0.119	3.459		3.614		0.122		5.45
AN-32	**3.375**		3.375	3.749	0.119	3.584		3.739		0.122		5.65
AN-33	**3.500**		3.500	3.874	0.119	3.709		3.864		0.122		5.70
AN-34	**3.625**		3.625	3.999	0.119	3.834		3.989		0.122		5.80
AN-35	**3.750**		3.750	4.124	0.119	3.959		4.114		0.122		6.04
AN-36	**3.875**		3.875	4.249	0.119	4.084		4.239		0.122		6.16
AN-37	**4.000**		4.000	4.439	0.135	4.240		4.427		0.138		6.35
AN-38	**4.125**		4.125	4.564	0.135	4.365		4.552		0.138		6.54
AN-39	**4.250**		4.250	4.689	0.135	4.490		4.677		0.138		6.71
AN-40	**4.375**	+.000 -.003	4.375	4.814	0.135	4.615		4.802	+.005 -.000	0.138		6.81
AN-41	**4.500**		4.500	4.939	0.135	4.740		4.927		0.138		6.88
AN-42	**4.625**		4.625	5.064	0.135	4.865		5.052		0.138		6.94
AN-43	**4.750**		4.750	5.189	0.135	4.990		5.177		0.138		7.17
AN-44	**4.875**		4.875	5.314	0.135	5.115		5.302		0.138		7.32
AN-45	**5.000**		5.000	5.439	0.135	5.240		5.427		0.138		8.45
AN-46	**5.125**		5.125	5.564	0.135	5.365		5.552		0.138		8.57
AN-47	**5.250**		5.250	5.689	0.135	5.490		5.677		0.138		8.57
AN-48	**5.375**		5.375	5.814	0.135	5.615		5.802		0.138		9.24
AN-49	**5.500**		5.500	5.939	0.135	5.740		5.927		0.138		9.50
AN-50*	**5.625**		5.625	6.128	0.151	5.896		6.114		0.154		17.24
AN-51	**5.750**		5.750	6.254	0.151	6.022		6.239		0.154		10.26
AN-52*	**5.875**		5.875	6.379	0.151	6.146		6.364		0.154		10.43
AN-53	**6.000**		6.000	6.504	0.151	6.272		6.489		0.154		10.99
AN-54	**6.250**		6.250	6.754	0.151	6.522		6.739		0.154		11.12
AN-55	**6.500**		6.500	7.004	0.151	6.772		6.989		0.154		11.35
AN-56	**6.750**		6.750	7.254	0.151	7.022		7.239		0.154		15.01
AN-57	**7.000**		7.000	7.504	0.151	7.272		7.489		0.154		16.51
AN-58*	**7.250**		7.250	7.754	0.151	7.522		7.739		0.154		16.79
AN-L*	**7.375**		7.375	7.879	0.151	7.647		7.864		0.154		39.19
AN-59	**7.500**		7.500	8.004	0.151	7.772		7.989		0.154		16.37
AN-60	**7.750**		7.750	8.254	0.151	8.022		8.239		0.154		17.38
AN-61	**8.000**		8.000	8.504	0.151	8.272		8.489		0.154		16.44

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN series - AU 90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-DD*	**8.125**	+.000 -.003	8.125	8.629	0.151	8.397	+.005 -.000	8.614	+.005 -.000	0.154	+.003 -.003	39.04
AN-61.5	**8.250**		8.250	8.754	0.151	8.522		8.739		0.154		20.70
AN-62	**8.500**		8.500	9.004	0.151	8.772		8.989		0.154		16.44
AN-63	**9.000**		9.000	9.504	0.151	9.272		9.489		0.154		19.62
AN-E*	**9.250**		9.250	9.754	0.151	9.522		9.739		0.154		39.04
AN-64	**9.500**		9.500	10.004	0.151	9.772		9.989		0.154		21.57
AN-65	**10.000**		10.000	10.504	0.151	10.272		10.489		0.154		26.99
AN-65.5*	**10.250**		10.250	10.754	0.151	10.552		10.739		0.154		170.86
AN-66	**10.500**		10.500	11.004	0.151	10.772		10.989		0.154		25.77
AN-66/10.625*	**10.625**		10.625	11.129	0.151	10.897		11.114		0.154		203.90
AN-F	**10.750**		10.750	11.254	0.151	11.022		11.239		0.154		46.93
AN-67	**11.000**		11.000	11.504	0.151	11.272		11.489		0.154		26.09
AN-FF*	**11.250**		11.250	11.754	0.166	11.522		11.739		0.169		52.53
AN-68	**11.500**		11.500	12.004	0.166	11.772		11.989		0.169		67.11
AN-69	**12.000**		12.000	12.504	0.166	12.272		12.489		0.169		119.09
AN-G*	**12.750**		12.750	13.254	0.166	13.022		13.239		0.169		70.02
AN-K*	**13.750**		13.750	14.254	0.166	14.022		14.239		0.169		71.83
AN-74*	**14.500**		14.500	15.004	0.166	14.772		14.989		0.169		226.40
AN-76*	**15.500**		15.500	16.004	0.166	15.772		15.989		0.169		247.41
AN-82*	**18.500**		18.500	19.004	0.166	18.772		18.989		0.169		271.77

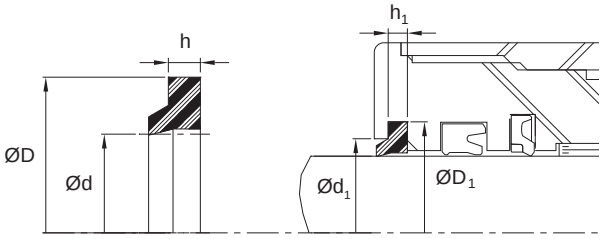
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



AN/V - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Fluorocarbon	-20°F to +400°F (-29°C to +204°C)	<1.6 ft/s (0.5 m/s)



AN/V-style rod wipers are designed to ensure proper fit with all MS-28776 (MS-33675) dash size grooves. The slotted heel design (when available) prevents pressure traps from forming between the rod seal and wiper. This profile of wiper requires very little radial or axial space. This is why they are ideal in light to medium duty hydraulic and pneumatic applications where such space constraints are present.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-01/V*	**0.500**	+.000 -.002	0.500	0.766	0.104	0.647	+.005 -.000	0.760	+.004 -.000	0.107	+.003 -.003	10.26
AN-02/V*	**0.562**		0.562	0.829	0.104	0.710		0.823		0.107		10.37
AN-03/V*	**0.625**		0.625	0.891	0.104	0.772		0.885		0.107		11.91
AN-04/V*	**0.687**		0.687	0.954	0.104	0.834		0.948		0.107		12.62
AN-05/V	**0.750**		0.750	1.016	0.104	0.897		1.010		0.107		15.11
AN-06/V*	**0.812**		0.812	1.090	0.104	0.960		1.084		0.107		15.26
AN-07/V*	**0.875**		0.875	1.153	0.104	1.023		1.147		0.107		15.44
AN-09/V	**1.000**		1.000	1.278	0.104	1.148		1.272		0.107		24.15
AN-10/V*	**1.062**		1.062	1.340	0.104	1.210		1.334		0.107		24.84
AN-11/V*	**1.125**		1.125	1.403	0.104	1.273		1.397		0.107		24.99
AN-12/V*	**1.187**		1.187	1.465	0.104	1.335		1.459		0.107		25.20
AN-13/V	**1.250**		1.250	1.528	0.104	1.398		1.522		0.107		17.46
AN-14/V*	**1.312**		1.312	1.622	0.104	1.480		1.614		0.107		25.37
AN-15/V	**1.375**		1.375	1.685	0.104	1.542		1.677		0.107		25.81
AN-16/V*	**1.437**		1.437	1.747	0.104	1.605		1.739		0.107		25.92
AN-17/V*	**1.500**		1.500	1.810	0.104	1.668		1.802		0.107		21.43
AN-18/V*	**1.625**		1.625	1.935	0.104	1.793		1.927		0.107		26.30
AN-19/V	**1.750**		1.750	2.060	0.104	1.918		2.052		0.107		17.55
AN-20/V*	**1.875**		1.875	2.185	0.104	2.043		2.177		0.107		26.60
AN-21/V	**2.000**		2.000	2.310	0.104	2.178		2.302		0.107		26.82
AN-22/V*	**2.125**		2.125	2.435	0.104	2.303		2.427		0.107		26.84
AN-23/V	**2.250**		2.250	2.560	0.104	2.428		2.552		0.107		26.99

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN/V series - FPM 90A

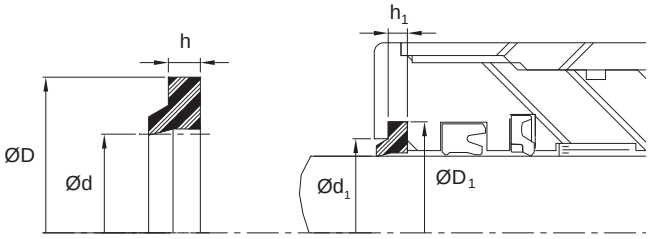
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
AN-24/V*	**2.375**	+.000 -.002	2.375	2.685	0.104	2.553	+.005 -.000	2.677	+.004 -.000	0.107	+.003 -.003	26.54
AN-25/V	**2.500**		2.500	2.810	0.104	2.678		2.802		0.107		24.19
AN-26/V*	**2.625**		2.625	2.999	0.119	2.834		2.989		0.122		27.18
AN-27/V	**2.750**		2.750	3.124	0.119	2.959		3.114		0.122		27.61
AN-28/V*	**2.875**		2.875	3.249	0.119	3.084		3.239		0.122		28.08
AN-29/V	**3.000**		3.000	3.374	0.119	3.209		3.364		0.122		50.99
AN-30/V*	**3.125**		3.125	3.499	0.119	3.334		3.489		0.122		30.79
AN-31/V	**3.250**		3.250	3.624	0.119	3.459		3.614		0.122		44.66
AN-32/V*	**3.375**		3.375	3.749	0.119	3.584		3.739		0.122		34.40
AN-33/V	**3.500**		3.500	3.874	0.119	3.709		3.864		0.122		39.80
AN-35/V*	**3.750**		3.750	4.124	0.119	3.959		4.114		0.122		40.85
AN-36/V*	**3.875**		3.875	4.249	0.119	4.084		4.239		0.122		41.69
AN-37/V	**4.000**		4.000	4.439	0.135	4.240		4.427		0.138		43.05
AN-39/V	**4.250**		4.250	4.689	0.135	4.490		4.677		0.138		44.64
AN-41/V	**4.500**	+.000 -.003	4.500	4.939	0.135	4.740		4.927	+.005 -.000	0.138		45.89
AN-42/V*	**4.625**		4.625	5.064	0.135	4.865		5.052		0.138		46.89
AN-43/V*	**4.750**		4.750	5.189	0.135	4.990		5.177		0.138		47.63
AN-45/V	**5.000**		5.000	5.439	0.135	5.240		5.427		0.138		129.64
AN-49/V	**5.500**		5.500	5.939	0.135	5.740		5.927		0.138		63.19
AN-51/V*	**5.750**		5.750	6.254	0.151	6.022		6.239		0.154		65.16
AN-53/V*	**6.000**		6.000	6.504	0.151	6.272		6.489		0.154		65.68
AN-54/V*	**6.250**		6.250	6.754	0.151	6.522		6.739		0.154		66.81
AN-55/V*	**6.500**		6.500	7.004	0.151	6.772		6.989		0.154		72.55
AN-57/V*	**7.000**		7.000	7.504	0.151	7.272		7.489		0.154		83.65
AN-59/V*	**7.500**		7.500	8.004	0.151	7.772		7.989		0.154		94.11
AN-62/V*	**8.500**		8.500	9.004	0.151	8.772		8.989		0.154		94.53
AN-63/V*	**9.000**		9.000	9.504	0.151	9.272		9.489		0.154		121.27

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN/P - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Poly-Orange	-65°F to +275°F (-54°C to +135°C)	<1.6 ft/s (0.5 m/s)



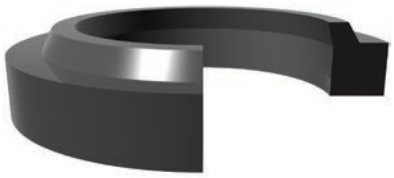
AN/P-style rod wipers are designed to ensure proper fit with all MS-28776 (MS-33675) dash size grooves. The slotted heel design (when available) prevents pressure traps from forming between the rod seal and wiper. This profile of wiper requires very little radial or axial space. This is why they are ideal in light to medium duty hydraulic and pneumatic applications where such space constraints are present.

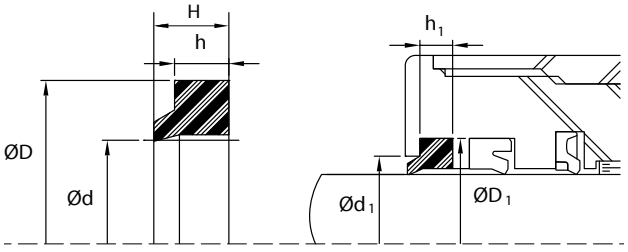
Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
AN-09/4651	**1.000**	+.000 -.002	1.000	1.278	0.104	1.148	+.005 -.000	1.272	+.004 -.000	0.107	+.003 -.003	9.87
AN-13/4651	**1.250**		1.250	1.528	0.104	1.398		1.522		0.107		10.58
AN-15/P	**1.375**		1.375	1.685	0.104	1.542		1.677		0.107		10.62
AN-19/P	**1.750**		1.750	2.060	0.104	1.918		2.052		0.107		10.96
AN-21/P	**2.000**		2.000	2.310	0.104	2.178		2.302		0.107		11.15
AN-25/P	**2.500**		2.500	2.810	0.104	2.678		2.802		0.107		11.72
AN-29/4651	**3.000**		3.000	3.374	0.119	3.209		3.364		0.122		19.03
AN-33/P	**3.500**		3.500	3.874	0.119	3.709		3.864		0.122		18.33
AN-37/P	**4.000**		4.000	4.439	0.135	4.240		4.427		0.138		19.61
AN-39/P*	**4.250**		4.250	4.689	0.135	4.490		4.677		0.138		26.12
AN-41/4651	**4.500**	+.000 -.003	4.500	4.939	0.135	4.740		4.927	+.005 -.000	0.138		29.88
AN-45/4651	**5.000**		5.000	5.439	0.135	5.240		5.427		0.138		34.13
AN-49/4651	**5.500**		5.500	5.939	0.135	5.740		5.927		0.138		47.07
AN-51/4651*	**5.750**		5.750	6.254	0.151	6.022		6.239		0.154		48.62
AN-55/4651*	**6.500**		6.500	7.004	0.151	6.772		6.989		0.154		53.64
AN-57/4651	**7.000**		7.000	7.504	0.151	7.272		7.489		0.154		57.17
AN-61/4651*	**8.000**		8.000	8.504	0.151	8.272		8.489		0.154		71.95

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

D - Rod wipers - Inch





Standard Material	Temperature Range	Surface Speed
Polyurethane	-65°F to +200°F (-54°C to +93°C)	<1.6 ft/s (0.5 m/s)

D-style rod wipers are an outstanding choice for light, medium duty hydraulic and pneumatic applications. The slotted heel (when available) design prevents pressure traps from forming between the rod seal and wiper. Broad tooling availability, up to 30", makes the **D-style** a good choice for large rod diameters. The snap-in design is oversized for a snug fit and excellent stability. This makes the **D-style** a great all-round wiper in an economical package.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-00187	**0.187**	+.000 -.002	0.187	0.437	0.125	0.341	+.056/-.000	0.427	+.004/-.000	0.124	+.003/-.001	6.47
D-00250*	**0.250**		0.250	0.500	0.125	0.410	+.010 -.000	0.497	+.006 -.000	0.124	+.004 -.000	3.73
D-00312	**0.312**		0.312	0.562	0.125	0.475		0.560		0.124		3.73
D-00375	**0.375**		0.375	0.625	0.125	0.535		0.622		0.124		3.73
D-00375/SP*	**0.375**		0.375	0.625	0.100	0.535		0.622		0.100		7.75
D-00437	**0.437**		0.437	0.687	0.125	0.600		0.685		0.124		3.67
D-00500	**0.500**		0.500	0.750	0.125	0.660		0.747		0.124		4.05
D-00562	**0.562**		0.562	0.812	0.125	0.725		0.810		0.124		4.05
D-00625	**0.625**		0.625	0.875	0.125	0.785		0.872		0.124		4.05
D-00687	**0.687**		0.687	0.937	0.125	0.850		0.935		0.124		4.05
D-00750	**0.750**	+.000 -.003	0.750	1.125	0.187	0.995		1.122		0.187		4.05
D-00812	**0.812**		0.812	1.187	0.187	1.060		1.185		0.187		4.05
D-00875	**0.875**		0.875	1.250	0.187	1.120		1.247		0.187		4.05
D-00937	**0.937**		0.937	1.312	0.187	1.185		1.309		0.187		3.69
D-01000	**1.000**		1.000	1.375	0.187	1.245		1.372		0.187		4.05
D-01000/R	**1.000**		1.000	1.375	0.175	1.245		1.372		0.175		4.05
D-01062	**1.062**		1.062	1.437	0.187	1.310		1.435		0.187		4.06
D-01100*	**1.100**		1.100	1.490	0.187	1.345		1.487		0.187		4.08
D-01125	**1.125**		1.125	1.500	0.187	1.370		1.497		0.187		4.05
D-01187	**1.187**		1.187	1.562	0.187	1.435		1.560		0.187		4.12
D-01250	**1.250**		1.250	1.625	0.187	1.495		1.622		0.187		4.41
D-01250/R	**1.250**		1.250	1.625	0.175	1.495		1.622		0.175		4.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-01312	**1.312**	+.000 -.003	1.312	1.687	0.187	1.560	+.010 -.000	1.685	+.006 -.000	0.187	+.004 -.000	5.82
D-01375	**1.375**		1.375	1.750	0.187	1.620		1.747		0.187		4.71
D-01437	**1.437**		1.437	1.812	0.187	1.685		1.810		0.187		17.06
D-01500	**1.500**		1.500	1.875	0.187	1.745		1.872		0.187		5.38
D-01500/4615	**1.500**		1.500	1.875	0.187	1.745		1.872		0.187		5.65
D-01500/R	**1.500**		1.500	1.875	0.175	1.745		1.872		0.175		5.90
D-01562	**1.562**		1.562	1.937	0.187	1.810		1.935		0.187		5.39
D-01625	**1.625**		1.625	2.000	0.187	1.870		1.997		0.187		5.54
D-01750	**1.750**		1.750	2.125	0.187	1.995		2.122		0.187		6.02
D-01875	**1.875**		1.875	2.250	0.187	2.120		2.247		0.187		6.24
D-01937*	**1.937**		1.937	2.312	0.187	2.185		2.309		0.187		6.48
D-02000	**2.000**		2.000	2.500	0.250	2.327		2.497		0.249		6.32
D-02000/R	**2.000**		2.000	2.375	0.175	2.327		2.372		0.175		6.74
D-02001*	**2.000**		2.000	2.375	0.187	2.245		2.372		0.187		7.17
D-02125	**2.125**		2.125	2.625	0.250	2.452		2.622		0.249		11.03
D-02250	**2.250**		2.250	2.750	0.250	2.577		2.747		0.249		6.68
D-02250/4615*	**2.250**		2.250	2.750	0.250	2.577		2.747		0.249		6.99
D-02312	**2.312**		2.312	2.812	0.250	2.640		2.810		0.249		13.77
D-02375	**2.375**		2.375	2.875	0.250	2.702		2.872		0.249		6.99
D-02500	**2.500**		2.500	3.000	0.250	2.827		2.997		0.249		7.46
D-02500/4615	**2.500**		2.500	3.000	0.250	2.827		2.997		0.249		7.18
D-02562	**2.562**		2.562	3.062	0.250	2.890		3.060		0.249		14.82
D-02625	**2.625**		2.625	3.125	0.250	2.952		3.122		0.249		7.46
D-02750	**2.750**		2.750	3.250	0.250	3.077		3.247		0.249		7.69
D-02875	**2.875**	↓	2.875	3.375	0.250	3.202		3.372		0.249		8.00
D-03000	**3.000**	+.000 -.004	3.000	3.500	0.250	3.327		3.497		0.249		8.00
D-03125	**3.125**		3.125	3.625	0.250	3.452		3.622		0.249		8.88
D-03250	**3.250**		3.250	3.750	0.250	3.577		3.747		0.249		13.31
D-03371*	**3.375**		3.375	3.750	0.187	3.620		3.747		0.187		20.99
D-03375	**3.375**		3.375	3.875	0.250	3.702		3.872		0.249		9.14
D-03482/HPU*	**3.482**		3.482	4.000	0.200	3.800		3.997		0.199		91.80
D-03500	**3.500**		3.500	4.000	0.250	3.827		3.997		0.249		9.14
D-03500/DA101-30K	**3.500**		3.500	4.250	0.350	3.981		4.247		0.349		199.54
D-03625	**3.625**		3.625	4.125	0.250	3.952		4.122		0.249		10.60
D-03750	**3.750**		3.750	4.250	0.250	4.077		4.247		0.249		10.60
D-03875	**3.875**		3.875	4.375	0.250	4.202		4.372		0.249		11.90
D-03972/EX*	**3.972**		3.972	4.475	0.200	4.187		4.472		0.199		164.51
D-04000	**4.000**		4.000	4.500	0.250	4.327		4.497		0.249	↓	11.90
D-04001	**4.000**		4.000	4.625	0.312	4.368		4.622		0.312	+.005 -.001	46.05
D-04002*	**4.000**		4.000	4.375	0.187	4.245		4.372		0.187		24.33
D-04125*	**4.125**		4.125	4.625	0.250	4.452		4.622		0.249	+.004 -.000	21.09
D-04250*	**4.250**		4.250	4.750	0.250	4.577		4.747		0.249		12.31
D-04375	**4.375**		4.375	4.875	0.250	4.702		4.872		0.249		13.19
D-04500*	**4.500**		4.500	5.250	0.375	4.993		5.247		0.374		13.33
D-04502*	**4.500**		4.500	5.000	0.312	4.827		4.997		0.311		64.77
D-04503*	**4.500**	↓	4.500	5.500	0.500	4.820	↓	5.497	↓	0.499	↓	339.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

D series - AU 90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
D-04621*	**4.625**	+.000 -.004	4.625	5.000	0.187	4.870	+.010 -.000	4.997	+.006 -.000	0.187	+.004 -.000	24.33
D-04625	**4.625**		4.625	5.375	0.375	5.118		5.372		0.374		27.72
D-04750	**4.750**		4.750	5.500	0.375	5.243		5.497		0.374		14.11
D-04751	**4.750**		4.750	5.250	0.250	5.077		5.247		0.249		12.83
D-04875	**4.875**		4.875	5.625	0.375	5.368		5.622		0.374		16.80
D-05000	**5.000**		5.000	5.750	0.375	5.493		5.747		0.374		18.63
D-05125*	**5.125**		5.125	5.875	0.375	5.618		5.872		0.374		38.69
D-05250	**5.250**		5.250	6.000	0.375	5.743		5.997		0.374		22.99
D-05375	**5.375**		5.375	6.125	0.375	5.868		6.122		0.374		31.46
D-05500	**5.500**		5.500	6.250	0.375	5.993		6.247		0.374		23.13
D-05501	**5.500**		5.500	6.125	0.375	5.868		6.122		0.374	+.005/-.001	50.19
D-05625*	**5.625**		5.625	6.375	0.375	6.118		6.372		0.374	+.004 -.000	45.56
D-05750	**5.750**		5.750	6.500	0.375	6.243		6.497		0.374		26.04
D-05875*	**5.875**		5.875	6.625	0.375	6.368		6.622		0.374		35.35
D-06000	**6.000**		6.000	6.750	0.375	6.493		6.747		0.374		27.38
D-06125	**6.125**		6.125	6.875	0.375	6.618		6.872		0.374		132.80
D-06250	**6.250**		6.250	7.000	0.375	6.743		6.997		0.374		28.13
D-06251*	**6.250**		6.250	6.750	0.250	6.577		6.747		0.249		36.96
D-06500	**6.500**		6.500	7.250	0.375	6.993		7.247		0.374		28.88
D-06501	**6.500**		6.500	7.500	0.500	7.100		7.497	+.011 -.000	0.499	+.006 -.001	94.79
D-06502	**6.500**		6.500	7.500	0.400	7.100		7.497		0.400		117.89
D-06625*	**6.625**		6.625	7.375	0.375	7.118		7.372	+.006 -.000	0.374	+.004 -.000	39.73
D-06750	**6.750**		6.750	7.500	0.375	7.243		7.497		0.374		30.22
D-06751	**6.750**		6.750	7.250	0.250	7.077		7.247		0.249		57.56
D-07000*	**7.000**	+.000 -.005	7.000	7.750	0.375	7.493		7.747		0.374		31.23
D-07001	**7.000**		7.000	8.000	0.500	7.600		8.000	+.011 -.000	0.500	+.006 -.001	94.01
D-07002	**7.000**		7.000	8.000	0.400	7.600		8.000		0.400		94.41
D-07250	**7.250**		7.250	8.000	0.375	7.743		7.997	+.006 -.000	0.374	+.004 -.000	31.21
D-07250/30K	**7.250**		7.250	8.000	0.375	7.743		7.997		0.374		256.14
D-07500	**7.500**		7.500	8.250	0.375	7.993		8.247		0.374		62.96
D-07501	**7.500**		7.500	8.500	0.500	8.100		8.500	+.011 -.000	0.500	+.006 -.001	84.92
D-07502	**7.500**		7.500	8.500	0.375	8.100		8.500		0.374		84.92
D-07750	**7.750**		7.750	8.500	0.375	8.243		8.497	+.006 -.000	0.374	+.004 -.000	36.08
D-08000	**8.000**		8.000	8.750	0.375	8.493		8.747		0.374		38.57
D-08001*	**8.000**		8.000	8.500	0.250	8.327		8.497		0.249		38.57
D-08002	**8.000**		8.000	9.000	0.500	8.600		9.000	+.011/-.000	0.500	+.006/-.001	165.03
D-08125*	**8.125**		8.125	8.625	0.250	8.457		8.625	+.003/-.003	0.250	+.004 -.000	47.91
D-08250	**8.250**		8.250	9.000	0.375	8.743		8.997	+.006 -.000	0.374		39.11
D-08500	**8.500**		8.500	9.250	0.375	8.993		9.247		0.374		39.11
D-08501	**8.500**		8.500	9.000	0.250	8.827		8.997		0.249		96.30
D-08750*	**8.750**		8.750	9.500	0.375	9.243		9.497		0.374		41.54
D-08875*	**8.875**		8.875	9.625	0.375	9.368		9.622		0.374		56.02
D-09000	**9.000**		9.000	9.750	0.375	9.493		9.747		0.374		44.45
D-09000/4300YD*	**9.000**		9.000	9.750	0.375	9.493		9.747		0.374		221.93
D-09001	**9.000**		9.000	10.000	0.500	9.600		10.000	+.011/-.000	0.500	+.006/-.001	152.88
D-09250*	**9.250**		9.250	10.000	0.375	9.743		9.997	+.006/-.000	0.374	+.004/-.000	99.00

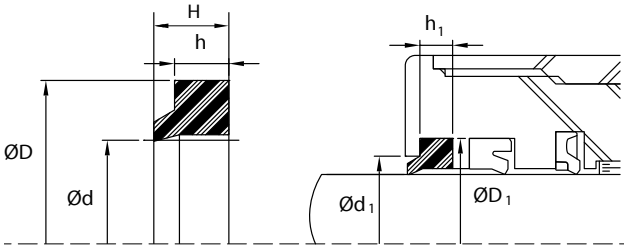
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-09500	**9.500**	+.000 -.005	9.500	10.250	0.375	9.993	+.010 -.000	10.247	+.006/-.000	0.374	+.004/-.001	116.63
D-09501*	**9.500**		9.500	10.500	0.500	10.100		10.497	+.011/-.000	0.500	+.006/-.001	109.73
D-09750	**9.750**		9.750	10.500	0.375	10.243		10.497	+.006 -.000	0.374	+.004 -.000	49.84
D-09751*	**9.750**		9.750	10.250	0.277	10.077		10.247		0.276		72.38
D-09752*	**9.750**		9.750	10.375	0.312	10.055		10.372		0.311		77.12
D-10000	**10.000**		10.000	11.000	0.500	10.659		10.997		0.499		57.11
D-10001	**10.000**		10.000	10.500	0.250	10.327		10.497		0.249		63.79
D-10250*	**10.250**		10.250	11.250	0.500	10.909		11.247		0.499		100.44
D-10500	**10.500**		10.500	11.500	0.500	11.159		11.497		0.499		102.84
D-10500/30K	**10.500**		10.500	11.500	0.500	11.159		11.497		0.499		503.64
D-10625*	**10.625**		10.625	11.625	0.500	11.248		11.622		0.499		104.00
D-10750	**10.750**		10.750	11.750	0.500	11.409		11.747		0.499		120.24
D-11000	**11.000**		11.000	12.000	0.500	11.659		11.997		0.499		67.10
D-11250*	**11.250**		11.250	12.250	0.500	11.909		12.247		0.499		113.43
D-11500	**11.500**		11.500	12.500	0.500	12.159		12.497		0.499		117.24
D-11501	**11.500**		11.500	12.250	0.375	11.870		12.247		0.374		338.52
D-11750	**11.750**		11.750	12.750	0.500	12.409		12.747		0.499		124.52
D-12000	**12.000**		12.000	13.000	0.500	12.659		12.997		0.499		66.27
D-12001*	**12.000**		12.000	12.500	0.277	12.296		12.500		0.276		137.03
D-12002	**12.000**		12.000	13.250	0.500	12.909		13.250	+.011/-.000	0.499	+.006/-.001	140.05
D-12500	**12.500**		12.500	13.500	0.500	13.159		13.497	+.006 -.000	0.499	+.004 -.000	143.52
D-13000*	**13.000**		13.000	14.000	0.500	13.659		13.997		0.499		186.45
D-13500	**13.500**		13.500	14.500	0.500	14.159		14.497		0.499		203.47
D-13750*	**13.750**		13.750	14.750	0.500	14.409		14.747		0.499		211.60
D-14000	**14.000**		14.000	15.000	0.500	14.659		14.997		0.499		217.30
D-14500	**14.500**		14.500	15.500	0.500	15.159		15.447		0.499		846.86
D-14750	**14.750**		14.750	15.750	0.500	15.409		15.747		0.499		223.84
D-15000	**15.000**		15.000	16.000	0.500	15.659		15.997		0.499		227.66
D-15500	**15.500**		15.500	16.500	0.500	16.159		16.447		0.449		601.30
D-16000	**16.000**		16.000	17.000	0.500	16.659		16.997		0.499		283.57
D-16500*	**16.500**		16.500	17.500	0.500	17.159		17.497		0.499		244.15
D-17375*	**17.375**		17.375	18.375	0.500	18.034		18.372		0.499		O/R
D-18000*	**18.000**		18.000	19.000	0.500	18.659		18.997		0.499		248.63
D-18500*	**18.500**		18.500	19.500	0.500	19.159		19.497		0.499		274.59
D-20000*	**20.000**		20.000	21.000	0.500	20.659		20.997		0.499		292.33
D-30000*	**30.000**		30.000	31.000	0.500	30.659		30.997		0.499		877.95

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

D/V - Rod wipers - Inch





Standard Material	Temperature Range	Surface Speed
Fluorocarbon	-20°F to +400°F (-28°C to +204°C)	<1.6 ft/s (0.5 m/s)

D-style rod wipers are an outstanding choice for light, medium duty hydraulic and pneumatic applications. The slotted heel (when available) design prevents pressure traps from forming between the rod seal and wiper. Broad tooling availability, up to 30", makes the **D-style** a good choice for large rod diameters. The snap-in design is oversized for a snug fit and excellent stability. This makes the **D-style** a great all-round wiper in an economical package.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-00625/V*	**0.625**	+.000/-.002	0.625	0.875	0.125	0.785	+.010 -.000	0.872	+.006 -.000	0.124	+.004 -.000	16.37
D-00750/V	**0.750**	+.000 -.003	0.750	1.125	0.187	0.995		1.122		0.187		17.84
D-01000/V	**1.000**		1.000	1.375	0.187	1.245		1.372		0.187		19.09
D-01125/V*	**1.125**		1.125	1.500	0.187	1.370		1.497		0.187		21.88
D-01250/V*	**1.250**		1.250	1.625	0.187	1.495		1.622		0.187		25.09
D-01375/V*	**1.375**		1.375	1.750	0.187	1.620		1.747		0.187		23.55
D-01500/V*	**1.500**		1.500	1.875	0.187	1.745		1.872		0.187		26.39
D-01625/V*	**1.625**		1.625	2.000	0.187	1.870		1.997		0.187		26.55
D-01750/V*	**1.750**		1.750	2.125	0.187	1.995		2.122		0.187		26.61
D-02000/V*	**2.000**		2.000	2.500	0.250	2.327		2.497		0.249		33.15
D-02250/V*	**2.250**		2.250	2.750	0.250	2.577		2.747		0.249		47.83
D-02500/V*	**2.500**		2.500	3.000	0.250	2.827		2.997		0.249		51.52
D-02750/V*	**2.750**		2.750	3.250	0.250	3.077		3.247		0.249		55.76
D-03000/V*	**3.000**	+.000 -.004	3.000	3.500	0.250	3.327		3.497		0.249		59.35
D-03250/V*	**3.250**		3.250	3.750	0.250	3.577		3.747		0.249		54.97
D-03500/V*	**3.500**		3.500	4.000	0.250	3.827		3.997		0.249		68.10
D-04000/V*	**4.000**		4.000	4.500	0.250	4.327		4.497		0.249		83.37
D-04250/V*	**4.250**		4.250	4.750	0.250	4.577		4.747		0.249		84.96
D-04500/V*	**4.500**		4.500	5.250	0.375	4.993		5.247		0.374		87.54
D-05000/V*	**5.000**		5.000	5.750	0.375	5.493		5.747		0.374		104.97
D-05500/V*	**5.500**		5.500	6.250	0.375	5.993		6.247		0.374		146.88
D-05750/V*	**5.750**		5.750	6.500	0.375	6.243		6.497		0.374		175.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

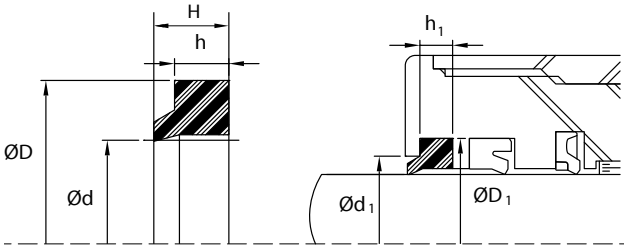
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-06000/V*	**6.000**	+.000/-.004	6.000	6.750	0.375	6.493	+.010 -.000	6.747	+.006 -.000	0.374	+.004 -.000	128.70
D-07000/V*	**7.000**	+.000 -.005	7.000	7.750	0.375	7.493		7.747		0.374		134.62
D-08000/V*	**8.000**		8.000	8.750	0.375	8.493		8.747		0.374		425.57
D-08500/V*	**8.500**		8.500	9.250	0.375	8.993		9.247		0.374		184.55
D-10000/V*	**10.000**		10.000	11.000	0.500	10.659		10.997		0.499		201.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



D/P - Rod wipers - Inch





Standard Material	Temperature Range	Surface Speed
Poly-Orange	-65°F /+275°F -54°C /+135°C	<1.6 ft/s (0.5 m/s)

D-style rod wipers are an outstanding choice for light, medium duty hydraulic and pneumatic applications. The slotted heel (when available) design prevents pressure traps from forming between the rod seal and wiper. Broad tooling availability, up to 30", makes the **D-style** a good choice for large rod diameters. The snap-in design is oversized for a snug fit and excellent stability. This makes the **D-style** a great all-round wiper in an economical package.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

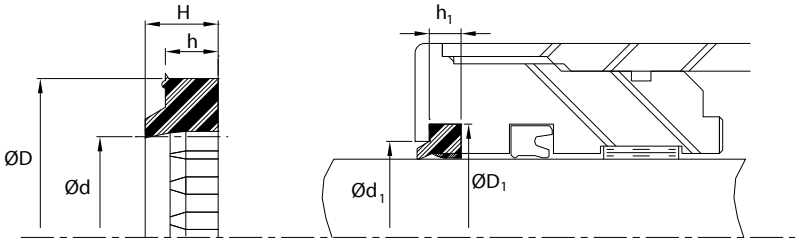
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
D-01250/P	**1.250**	+.000 -.003	1.250	1.625	0.187	1.495	+.010 -.000	1.622	+.006 -.000	0.187	+.004 -.000	6.01
D-01375/P	**1.375**		1.375	1.750	0.187	1.620		1.747		0.187		6.34
D-01500/P	**1.500**		1.500	1.875	0.187	1.745		1.872		0.187		6.77
D-01750/P	**1.750**		1.750	2.125	0.187	1.995		2.122		0.187		7.89
D-02000/P	**2.000**		2.000	2.500	0.250	2.327		2.497		0.249		8.27
D-02125/4651*	**2.125**		2.125	2.625	0.250	2.452		2.622		0.249		19.34
D-02250/P	**2.250**		2.250	2.750	0.250	2.577		2.747		0.249		18.69
D-02500/P	**2.500**		2.500	3.000	0.250	2.827		2.997		0.249		9.11
D-02750/P*	**2.750**		2.750	3.250	0.250	3.077		3.247		0.249		9.59
D-03000/P	**3.000**	+.000 -.004	3.000	3.500	0.250	3.327		3.497		0.249		9.98
D-03500/P	**3.500**		3.500	4.000	0.250	3.827		3.997		0.249		14.78
D-04000/P	**4.000**		4.000	4.500	0.250	4.327		4.497		0.249		15.54
D-04500/P	**4.500**		4.500	5.250	0.375	4.993		5.247		0.374		21.02
D-05000/P	**5.000**		5.000	5.750	0.375	5.493		5.747		0.374		30.23
D-05500/P	**5.500**		5.500	6.250	0.375	5.993		6.247		0.374		36.54
D-05750/P	**5.750**		5.750	6.500	0.375	6.243		6.497		0.374		77.06
D-06000/P	**6.000**		6.000	6.750	0.375	6.493		6.747		0.374		40.07
D-07000/P	**7.000**	+.000 -.005	7.000	7.750	0.375	7.493		7.747		0.374		62.19
D-08000/4651	**8.000**		8.000	8.750	0.375	8.493		8.747		0.374		122.23
D-08500/4651*	**8.500**		8.500	9.250	0.375	8.993		9.247		0.374		135.25
D-11000/4651*	**11.000**		11.000	12.000	0.500	11.659		11.997		0.499		209.58

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

D/520 - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Hythane	-50°F to +230°F (-45°C to +110°C)	<12 ft/s (3.7 m/s)



D/520-style single-lipped, snap-in rod wiper is designed to fit North American D-style housings. The proportions of the wiping lip ensure that contact is maintained with the surface of the rod to remove heavily deposited containments such as mud and ice.

The outside diameter of the wiper incorporates a crush lip to provide an interference fit with the housing and a face bead to ensure that the crush lip is not trapped in the corner of the housing. These features help prevent contamination from entering the groove.

The molded ribs on the internal diameter provide extra stability to the wiper and help prevent the possibility of blow-out due to pressure trapping between the wiper and the main rod seal.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
D-00375/520	**0.375**	+.000 -.002	0.375	0.625	0.125	0.540	+.005 -.005	0.625	+.003 -.003	0.125	+.004 -.000	3.58
D-00500/520*	**0.500**		0.500	0.750	0.125	0.665		0.750		0.125		3.58
D-00562/520*	**0.562**		0.562	0.812	0.125	0.730		0.812		0.125		O/R
D-00625/520	**0.625**		0.625	0.875	0.125	0.790		0.875		0.125		2.13
D-00750/520	**0.750**	+.000 -.003	0.750	1.125	0.187	1.000		1.125		0.187		4.05
D-00875/520	**0.875**		0.875	1.250	0.187	1.125		1.250		0.187		2.50
D-01000/520	**1.000**		1.000	1.375	0.187	1.250		1.375		0.187		5.40
D-01125/520	**1.125**		1.125	1.500	0.187	1.375		1.500		0.187		5.40
D-01187/520	**1.187**		1.187	1.562	0.187	1.437		1.562		0.187		4.75
D-01250/520	**1.250**		1.250	1.625	0.187	1.500		1.625		0.187		5.86
D-01375/520	**1.375**		1.375	1.750	0.187	1.625		1.750		0.187		6.20
D-01500/520	**1.500**		1.500	1.875	0.187	1.750		1.875		0.187		6.54
D-01625/520	**1.625**		1.625	2.000	0.187	1.875		2.000		0.187		7.11
D-01750/520	**1.750**		1.750	2.125	0.187	2.000		2.125		0.187		7.65
D-01875/520*	**1.875**		1.875	2.250	0.187	2.125		2.250		0.187		8.42
D-02000/520	**2.000**		2.000	2.500	0.250	2.332		2.500		0.250		8.00
D-02125/520*	**2.125**		2.125	2.625	0.250	2.457		2.625		0.250		O/R
D-02250/520	**2.250**		2.250	2.750	0.250	2.582		2.750		0.250		8.44
D-02375/520	**2.375**		2.375	2.875	0.250	2.707		2.875		0.250		8.91
D-02500/520	**2.500**		2.500	3.000	0.250	2.832		3.000		0.250		9.38
D-02750/520	**2.750**		2.750	3.250	0.250	3.082		3.250		0.250		9.76
D-03000/520	**3.000**	+.000/-.004	3.000	3.500	0.250	3.332		3.500		0.250		10.15

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

D/520 series - HYTHANE AU 93A

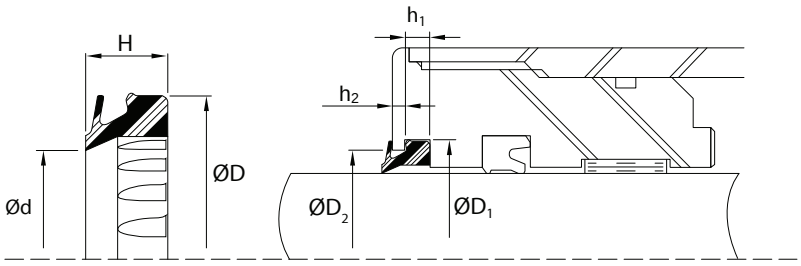
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
D-03187/520*	**3.187**	+.000 -.004	3.187	3.562	0.250	3.519	+.005 -.005	3.562	+.003 -.003	0.250	+.004 -.000	O/R
D-03250/520	**3.250**		3.250	3.750	0.250	3.582		3.750		0.250		11.20
D-03500/520	**3.500**		3.500	4.000	0.250	3.832		4.000		0.250		11.53
D-03750/520	**3.750**		3.750	4.250	0.250	4.082		4.250		0.250		13.30
D-03875/520*	**3.875**		3.875	4.375	0.250	4.207		4.375		0.250		14.19
D-04000/520	**4.000**		4.000	4.500	0.250	4.332		4.500		0.250		15.07
D-04002/520	**4.000**		4.000	4.375	0.187	4.250		4.375		0.187		15.25
D-04250/520	**4.250**		4.250	4.750	0.250	4.582		4.750		0.250		15.96
D-04500/520	**4.500**		4.500	5.250	0.375	4.998		5.250		0.375		16.83
D-04501/520	**4.500**		4.500	5.000	0.250	4.832		5.000		0.250		16.75
D-04750/520*	**4.750**		4.750	5.500	0.375	5.248		5.500		0.375		21.11
D-04752/520	**4.750**		4.750	5.125	0.187	5.000		5.500		0.187		22.60
D-04875/520*	**4.875**		4.875	5.625	0.375	5.373		5.625		0.375		24.81
D-05000/520	**5.000**		5.000	5.750	0.375	5.498		5.750		0.375		25.37
D-05001/520	**5.000**		5.000	5.500	0.250	5.327		5.500		0.250		28.34
D-05250/520	**5.250**		5.250	6.000	0.375	5.748		6.000		0.375		29.01
D-05500/520	**5.500**		5.500	6.250	0.375	5.998		6.250		0.375		29.21
D-05502/520*	**5.500**		5.500	5.875	0.187	5.750		5.875		0.187		30.24
D-05750/520*	**5.750**		5.750	6.500	0.375	6.248		6.500		0.375		31.80
D-05875/520*	**5.875**		5.875	6.625	0.375	6.373		6.625		0.375		33.01
D-06000/520	**6.000**		6.000	6.750	0.375	6.498		6.750		0.375		34.41
D-06001/520	**6.000**		6.000	6.500	0.250	6.332		6.500		0.250		33.74
D-06375/520	**6.375**		6.375	6.875	0.250	6.707		6.875		0.250		34.01
D-06500/520*	**6.500**		6.500	7.250	0.375	6.998		7.250		0.375		28.83
D-07000/520	**7.000**	+.000 -.005	7.000	7.750	0.375	7.498		7.750		0.375		31.73
D-07003/520*	**7.000**		7.000	7.500	0.250	7.332		7.500		0.250		34.60
D-07251/520*	**7.250**		7.250	7.750	0.250	7.582		7.750		0.250		36.02
D-07500/520	**7.500**		7.500	8.250	0.375	7.998		8.250		0.375		36.44
D-08000/520	**8.000**		8.000	8.750	0.375	8.498		8.750		0.375		38.51
D-08125/520	**8.125**		8.125	8.625	0.250	8.457		8.625		0.250		40.21
D-08250/520*	**8.250**		8.250	9.000	0.375	8.748		9.000		0.375		41.30
D-08500/520*	**8.500**		8.500	9.250	0.375	8.998		9.250		0.375		42.14
D-09000/520*	**9.000**		9.000	9.750	0.375	9.498		9.750		0.375		50.33
D-09375/520*	**9.375**		9.375	9.875	0.250	9.707		9.875		0.250		O/R
D-09500/520*	**9.500**		9.500	10.250	0.375	9.998		10.250		0.375		O/R
D-10000/520*	**10.000**		10.000	11.000	0.500	10.664		11.000		0.500		O/R
D-11000/520*	**11.000**		11.000	12.000	0.500	11.664		12.000		0.500		O/R
D-11001/520*	**11.000**		11.000	11.750	0.375	11.498		11.750		0.375		O/R
D-12000/520*	**12.000**		12.000	13.000	0.500	12.664		13.000		0.500		O/R
D-14000/520*	**14.000**		14.000	15.000	0.500	14.664		15.000		0.500		O/R
D-15000/520*	**15.000**		15.000	16.000	0.500	15.664		16.000		0.500		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

D/820 - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Hythane	-50°F to +230°F (-45°C to +110°C)	<12 ft/s (3.7 m/s)



The unique feature of the **D/820-style** is the Umbrella Wiper Technology™, which is a protective debris guard flap on the wiping lip that entirely covers the gland housing and prevents the water/slurry trap that is common with conventional wipers. This feature offers added protection to the integrity of the hydraulic system by reducing corrosion and preventing the ingress of contamination into the wiper housing groove and hydraulic cylinder gland which will result in increased system life.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

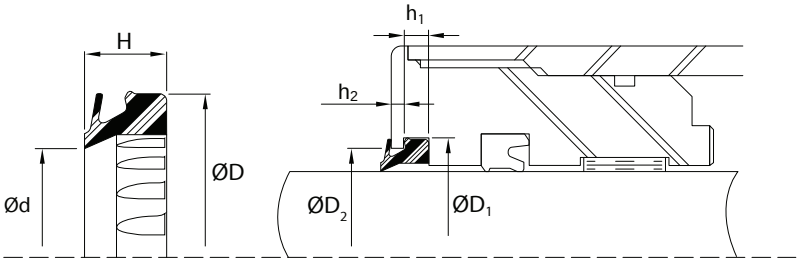
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d2	Tol.	D1	Tol.	h1	Tol.	$
D-01125/820	**1.125**	+.000 -.003	1.125	1.500	0.187	1.375	+.005 -.005	1.500	+.003 -.003	0.187	+.004 -.000	10.97
D-01250/820	**1.250**		1.250	1.625	0.187	1.500		1.625		0.187		11.12
D-01375/820*	**1.375**		1.375	1.750	0.187	1.625		1.750		0.187		11.39
D-01500/820*	**1.500**		1.500	1.875	0.187	1.750		1.875		0.187		11.75
D-01750/820	**1.750**		1.750	2.125	0.187	2.000		2.125		0.187		12.17
D-02000/820	**2.000**		2.000	2.500	0.250	2.332		2.500		0.250		13.82
D-02250/820*	**2.250**		2.250	2.750	0.250	2.582		2.750		0.250		14.40
D-02500/820	**2.500**		2.500	3.000	0.250	2.832		3.000		0.250		15.09
D-03000/820	**3.000**	+.000 -.004	3.000	3.500	0.250	3.332		3.500		0.250		16.06
D-03500/820	**3.500**		3.500	4.000	0.250	3.832		4.000		0.250		16.99
D-03750/820	**3.750**		3.750	4.250	0.250	4.082		4.250		0.250		18.35
D-04000/820	**4.000**		4.000	4.500	0.250	4.332		4.500		0.250		18.55
D-04500/820	**4.500**		4.500	5.250	0.375	4.998		5.250		0.375		21.31
D-05000/820*	**5.000**		5.000	5.750	0.375	5.498		5.750		0.375		25.75
D-06000/820*	**6.000**		6.000	6.750	0.375	6.498		6.750		0.375		31.07
D-13250/820*	**13.250**		13.250	14.250	0.472	14.190		14.250		0.472		745.33
D-14000/820	**14.000**		14.000	15.000	0.500	14.664		15.000		0.500		477.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

D/842 - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Hythane	-50°F to +230°F (-45°C to +110°C)	<12 ft/s (3.7 m/s)



D/842-style is a single-lipped, snap-in rod wiper designed for harsh environments with heavy contamination, such as agriculture, off-highway, forestry, and mining. Its key feature is the Umbrella Wiper Technology™, which protects the gland housing from debris and prevents water/slurry traps common in conventional wipers. This technology enhances hydraulic system protection, reduces corrosion, and prevents contamination from entering the wiper housing. The molded ribs on the internal diameter provide added stability, preventing blow-out due to pressure.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

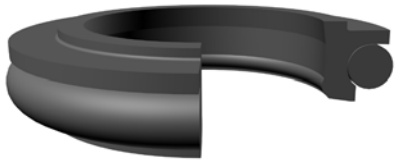
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-01750/842*	**1.750**	+.000/-.003	1.750	2.125	0.220	1.995	+.007 -.000	2.125	+.007 -.000	0.220	+.008 -.000	25.02
D-02000/842*	**2.000**	+.000 -.004	2.000	2.375	0.220	2.245		2.375		0.220		24.76
D-02500/842	**2.500**		2.500	2.875	0.220	2.745		2.875		0.220		29.97
D-02750/842*	**2.750**		2.750	3.125	0.220	2.995		3.125		0.220		32.40
D-03000/842	**3.000**		3.000	3.375	0.220	3.245	+.009 -.000	3.375	+.009 -.000	0.220		33.10
D-03125/842*	**3.125**		3.125	3.500	0.220	3.370		3.500		0.220		33.99
D-03250/842*	**3.250**	+.000 -.005	3.250	3.625	0.220	3.495		3.625		0.220		35.98
D-03375/842*	**3.375**		3.375	3.750	0.220	3.620		3.750		0.220		36.01
D-03500/842*	**3.500**		3.500	3.875	0.220	3.745		3.875		0.220		36.32
D-03625/842*	**3.625**		3.625	4.000	0.220	3.870		4.000		0.220		41.00
D-03750/842	**3.750**		3.750	4.125	0.220	3.995		4.125		0.220		108.63
D-03875/842*	**3.875**		3.875	4.250	0.220	4.120		4.250		0.220		42.60
D-04000/842*	**4.000**		4.000	4.375	0.220	4.245		4.375		0.220		39.29
D-04375/842*	**4.375**		4.375	4.875	0.312	4.715		4.875	+.010 -.000	0.312		48.20
D-04750/842*	**4.750**	+.000 -.006	4.750	5.250	0.312	5.090	+.010 -.000	5.250		0.312		50.21
D-05000/842*	**5.000**		5.000	5.500	0.312	5.340		5.500		0.312		51.36
D-05250/842*	**5.250**		5.250	5.750	0.312	5.590		5.750		0.312		54.23
D-05750/842*	**5.750**		5.750	6.250	0.312	6.090		6.250		0.312		57.68
D-06000/842	**6.000**		6.000	6.500	0.312	6.340		6.500		0.312		60.08
D-06250/842*	**6.250**		6.250	7.000	0.500	6.745		7.000		0.500		65.99
D-06750/842*	**6.750**		6.750	7.250	0.312	7.090		7.250	+.012 -.000	0.312		68.14
D-07000/842*	**7.000**		7.000	7.500	0.312	7.340	+.012/-.000	7.500		0.312		70.89

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

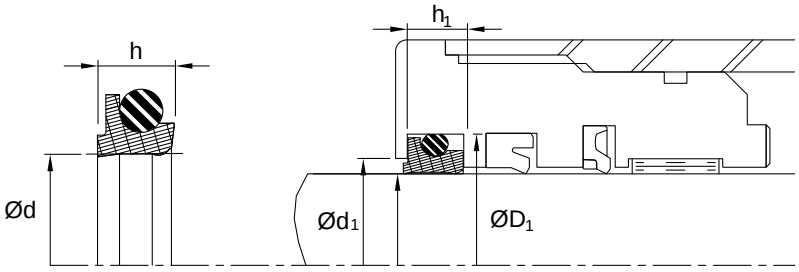
D/842 series - HYTHANE AU 93A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-07001/842*	**7.000**	+.000 -.006	7.000	7.750	0.500	7.495	+.012 -.000	7.750	+.012 -.000	0.500	+.008 -.000	111.11
D-07002/842*	**7.000**		7.000	8.000	0.500	7.625		8.000		0.500		78.20
D-07750/842*	**7.750**		7.750	8.250	0.312	8.090		8.250		0.312		82.40
D-08000/842*	**8.000**		8.000	8.500	0.312	8.340		8.500		0.312		76.43
D-08750/842*	**8.750**		8.750	9.250	0.312	9.090		9.250		0.312		99.20

DX - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Lubrithane/Nitrile	-40°F to +250°F (-40°C to +120°C)	<3.3 ft/s (1 m/s)



DX-style is snap-in wiper seals with a patented profile featuring a single external lip and a vented inside edge. It include a rubber O'ring that ensures a strong static seal and provides consistent preload on the dynamic lip. The O'ring also allows the wiper to adapt to radial misalignment by deforming to compensate. When encountering resistance from contaminants like tree sap or frozen rain, the wiper lip twists to increase preload. **DX-style** combines the benefits of press-in and snap-in wiper seals.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
DX-01500*	**1.500**	+.000 -.003	1.500	1.875	0.187	1.745	+.010 -.000	1.872	+.006 -.000	0.187	+.004 -.000	19.40
DX-01750	**1.750**		1.750	2.125	0.187	1.995		2.122		0.187		22.11
DX-02000*	**2.000**		2.000	2.500	0.250	2.327		2.497		0.249		24.88
DX-02500	**2.500**		2.500	3.000	0.250	2.827		2.997		0.249		28.58
DX-02750*	**2.750**		2.750	3.250	0.250	3.077		3.247		0.249		31.38
DX-03000	**3.000**	+.000 -.004	3.000	3.500	0.250	3.327		3.497		0.249		32.82
DX-03500	**3.500**		3.500	4.000	0.250	3.827		3.997		0.249		49.53
DX-03750*	**3.750**		3.750	4.250	0.250	4.077		4.247		0.249		50.13

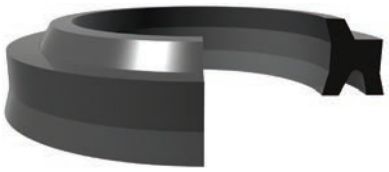
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

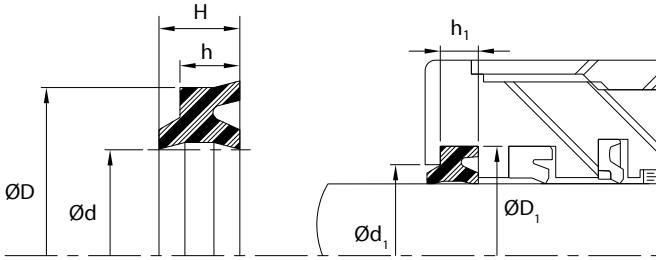
DX series - AU/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
DX-04000	**4.000**	+.000 -.004	4.000	4.500	0.250	4.327	+.010 -.000	4.497	+.006 -.000	0.249	+.004 -.000	51.22
DX-04500*	**4.500**		4.500	5.250	0.375	4.993		5.247		0.374		73.36
DX-05000*	**5.000**		5.000	5.750	0.375	5.493		5.747		0.374		74.77
DX-05500*	**5.500**		5.500	6.250	0.375	5.993		6.247		0.374		79.43
DX-06000	**6.000**		6.000	6.750	0.375	6.493		6.747		0.374		87.98
DX-08000*	**8.000**		8.000	8.750	0.375	8.493		8.747		0.374		156.22
DX-08500*	**8.500**		8.500	9.250	0.375	8.993		9.247		0.374		137.80
DX-09000	**9.000**		9.000	9.750	0.375	9.493		9.747		0.374		209.20
DX-12000	**12.000**	+.000/-.005	12.000	13.000	0.500	12.659		12.997		0.499		227.80

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

H - Rod wipers - Inch





Standard Material	Temperature Range	Surface Speed
Polyurethane	-40°F to +225°F (-40°C to +107°C)	<1.6 ft/s (0.5 m/s)

H-style rod wipers are double-lip excluders sharing identical geometries for combining the actions of rod sealing and wiping. H wipers, available in plastic compounds, are intended for medium pressure hydraulic applications as a redundant rod seal or for low pressure systems as the sole rod seal and wiper. **H-style** available in rubber compounds, are typically used for pneumatic cylinders where lower friction is required.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
H-00250*	**0.250**	+.000 -.001	0.250	0.562	0.194	0.370	+.002 -.000	0.552	+.002 -.000	0.203	+.005 -.000	4.64
H-00312*	**0.312**		0.312	0.625	0.194	0.432		0.615		0.203		4.64
H-00375	**0.375**		0.375	0.687	0.194	0.495		0.677		0.203		4.64
H-00500	**0.500**		0.500	0.812	0.194	0.620		0.802		0.203		4.64
H-00625	**0.625**		0.625	0.937	0.194	0.745		0.927		0.203		5.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
H-00626*	**0.625**	+.000 -.001	0.625	1.000	0.212	0.760	+.002 -.000	0.990	+.002 -.000	0.218	+.005 -.000	15.48
H-00750	**0.750**		0.750	1.062	0.194	0.870		1.052		0.203		5.16
H-00875	**0.875**		0.875	1.250	0.212	1.010	+.003 -.000	1.240	+.003 -.000	0.218		5.27
H-00937*	**0.937**		0.937	1.312	0.212	1.072		1.302		0.218		11.19
H-01000	**1.000**		1.000	1.375	0.212	1.135		1.365		0.218		5.35
H-01125	**1.125**		1.125	1.500	0.212	1.260		1.490		0.218		5.62
H-01250	**1.250**		1.250	1.625	0.212	1.385		1.615		0.218		6.01
H-01375	**1.375**		1.375	1.750	0.212	1.510		1.740		0.218		6.48
H-01500	**1.500**		1.500	1.875	0.212	1.635		1.865		0.218		6.89
H-01625	**1.625**		1.625	2.000	0.212	1.760		1.990		0.218		7.04
H-01750	**1.750**		1.750	2.125	0.212	1.885		2.115		0.218		7.36
H-01875	**1.875**		1.875	2.250	0.212	2.010		2.240		0.218		8.03
H-02000	**2.000**		2.000	2.375	0.212	2.135		2.365		0.218		8.36
H-02125*	**2.125**		2.125	2.500	0.212	2.260		2.490		0.218		8.68
H-02187*	**2.187**		2.187	2.687	0.275	2.323		2.683		0.281		8.75
H-02250	**2.250**		2.250	2.750	0.275	2.385		2.745		0.281		8.80
H-02375	**2.375**		2.375	2.875	0.275	2.510		2.870		0.281		9.15
H-02500	**2.500**		2.500	3.000	0.275	2.635		2.995		0.281		9.27
H-02625	**2.625**		2.625	3.125	0.275	2.760		3.120		0.281		9.85
H-02750	**2.750**	↓	2.750	3.250	0.275	2.885		3.245		0.281		10.58
H-03000	**3.000**	+.000 -.002	3.000	3.500	0.275	3.135		3.495		0.281		11.87
H-03125	**3.125**		3.125	3.625	0.275	3.260		3.620		0.281		12.81
H-03250	**3.250**		3.250	3.750	0.275	3.385		3.745		0.281		13.42
H-03500	**3.500**		3.500	4.000	0.275	3.635		3.995		0.281		14.07
H-03625	**3.625**		3.625	4.125	0.275	3.760		4.120		0.281		20.43
H-03750	**3.750**		3.750	4.250	0.275	3.885		4.245		0.281		28.83
H-03875*	**3.875**		3.875	4.375	0.275	4.010		4.370		0.281		14.87
H-04000	**4.000**		4.000	4.500	0.275	4.135		4.495		0.281		15.55
H-04250	**4.250**		4.250	4.750	0.275	4.385		4.745		0.281		24.05
H-04437*	**4.437**		4.437	4.937	0.275	4.572		4.932		0.281		33.00
H-04500	**4.500**		4.500	5.000	0.275	4.635		4.995		0.281		17.29
H-04750*	**4.750**		4.750	5.250	0.275	4.885		5.245		0.281		40.95
H-05000	**5.000**		5.000	5.500	0.275	5.135		5.495		0.281		20.45
H-05125*	**5.125**		5.125	5.625	0.275	5.260		5.620		0.281		20.87
H-05250*	**5.250**		5.250	5.750	0.275	5.385		5.745		0.281		20.87
H-05500	**5.500**		5.500	6.000	0.275	5.635		5.995		0.281		28.39
H-05750	**5.750**		5.750	6.250	0.275	5.885		6.245		0.281		29.43
H-06000	**6.000**		6.000	6.500	0.275	6.135		6.495		0.281		29.57
H-06500	**6.500**		6.500	7.000	0.275	6.635		6.995		0.281		29.75
H-07000	**7.000**		7.000	7.500	0.275	7.135		7.495		0.281		36.73
H-07500	**7.500**		7.500	8.000	0.275	7.635		7.995		0.281		39.60
H-08000	**8.000**		8.000	8.500	0.275	8.135		8.495		0.281		64.16
H-08500	**8.500**		8.500	9.000	0.275	8.635		8.995		0.281		40.87
H-10000	**10.000**		10.000	10.500	0.275	10.135		10.495		0.281		67.48
H-13000*	**13.000**		13.000	13.500	0.275	13.135		13.495		0.281		O/R
H-17500*	**17.500**	↓	17.500	18.000	0.275	17.635	↓	17.995	↓	0.281	↓	O/R

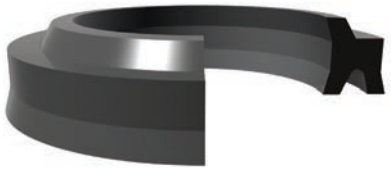
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

H series - AU 90A

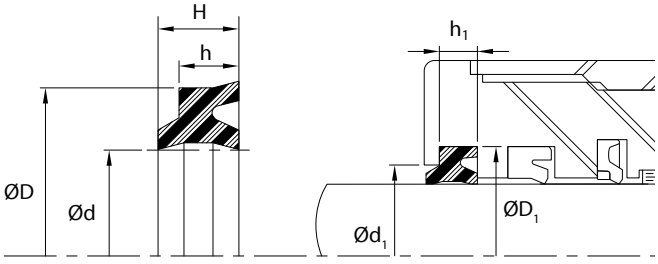
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
H-21125*	**21.125**	+.000 -.002	21.125	21.625	0.275	12.260	+.003 -.000	21.620	+.003 -.000	0.281	+.005 -.000	O/R
H-26000*	**26.000**		26.000	26.500	0.275	26.135		26.495		0.281		O/R
H-33500*	**33.500**		33.500	34.000	0.275	34.635		34.995		0.281		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

H/N - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Nitrile	-40°F to +225°F (-40°C to +107°C)	<3.3 ft/s (1 m/s)



H-style rod wipers are double-lip excluders sharing identical geometries for combining the actions of rod sealing and wiping. H wipers, available in plastic compounds, are intended for medium pressure hydraulic applications as a redundant rod seal or for low pressure systems as the sole rod seal and wiper. **H-style** available in rubber compounds, are typically used for pneumatic cylinders where lower friction is required.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
H-00250/N*	**0.250**	+.000 -.001	0.250	0.562	0.194	0.370	+.002 -.000	0.552	+.002 -.000	0.203	+.005 -.000	6.01
H-00312/N*	**0.312**		0.312	0.625	0.194	0.432		0.615		0.203		6.01
H-00375/N	**0.375**		0.375	0.687	0.194	0.495		0.677		0.203		13.53
H-00437/N*	**0.437**		0.437	0.750	0.194	0.557		0.740		0.203		6.01
H-00500/N	**0.500**		0.500	0.812	0.194	0.620		0.802		0.203		5.26
H-00562/N*	**0.562**		0.562	0.875	0.194	0.682		0.865		0.203		6.16
H-00625/N	**0.625**		0.625	0.937	0.194	0.745		0.927		0.203		6.28
H-00625-1/N*	**0.625**		0.625	1.000	0.203	0.760		0.990		0.218		6.30
H-00687/N	**0.687**		0.687	1.000	0.194	0.808		0.990		0.203		6.30
H-00750/N	**0.750**		0.750	1.062	0.194	0.870		1.052		0.203		6.28

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
H-00812/N*	**0.812**	+.000 -.001	0.812	1.187	0.212	0.947	+.002 -.000	1.177	+.002 -.000	0.218	+.005 -.000	6.43
H-00875/N	**0.875**		0.875	1.250	0.212	1.010		1.240		0.218		6.43
H-00937/N*	**0.937**		0.937	1.312	0.212	1.072	+.003 -.000	1.302	+.003 -.000	0.218		6.68
H-01000/N	**1.000**		1.000	1.375	0.212	1.135		1.365		0.218		6.56
H-01062/N*	**1.062**		1.062	1.437	0.212	1.197		1.427		0.218		6.78
H-01125/N	**1.125**		1.125	1.500	0.212	1.260		1.490		0.218		7.03
H-01187/N*	**1.187**		1.187	1.562	0.212	1.322		1.552		0.218		7.26
H-01250/N	**1.250**		1.250	1.625	0.212	1.385		1.615		0.218		7.33
H-01312/N*	**1.312**		1.312	1.687	0.212	1.447		1.677		0.218		7.85
H-01375/N	**1.375**		1.375	1.750	0.212	1.510		1.740		0.218		7.46
H-01437/N*	**1.437**		1.437	1.812	0.212	1.572		1.802		0.218		8.27
H-01500/N	**1.500**		1.500	1.875	0.212	1.635		1.865		0.218		8.37
H-01562/N*	**1.562**		1.562	1.937	0.212	1.697		1.927		0.218		8.52
H-01625/N	**1.625**		1.625	2.000	0.212	1.760		1.990		0.218		8.65
H-01687/N*	**1.687**		1.687	2.062	0.212	1.823		2.052		0.218		8.78
H-01750/N	**1.750**		1.750	2.125	0.212	1.885		2.115		0.218		8.93
H-01812/N*	**1.812**		1.812	2.187	0.212	1.947		2.177		0.218		8.88
H-01875/N	**1.875**		1.875	2.250	0.212	2.010		2.240		0.218		7.67
H-01937/N*	**1.937**		1.937	2.312	0.212	2.072		2.302		0.218		9.29
H-02000/N	**2.000**		2.000	2.375	0.212	2.135		2.365		0.218		10.17
H-02062/N*	**2.062**		2.062	2.437	0.212	2.197		2.427		0.218		10.57
H-02125/N*	**2.125**		2.125	2.500	0.212	2.260		2.490		0.218		10.42
H-02187/N*	**2.187**		2.187	2.687	0.275	2.323		2.683		0.281		10.70
H-02250/N*	**2.250**		2.250	2.750	0.275	2.385		2.745		0.281		10.79
H-02312/N*	**2.312**		2.312	2.812	0.275	2.447		2.807		0.281		11.17
H-02375/N*	**2.375**		2.375	2.875	0.275	2.510		2.870		0.281		9.57
H-02437/N*	**2.437**		2.437	2.937	0.275	2.572		2.932		0.281		11.27
H-02500/N	**2.500**		2.500	3.000	0.275	2.635		2.995		0.281		8.92
H-02562/N*	**2.562**		2.562	3.062	0.275	2.697		3.057		0.281		11.99
H-02625/N*	**2.625**		2.625	3.125	0.275	2.760		3.120		0.281		12.79
H-02687/N*	**2.687**		2.687	3.187	0.275	2.823		3.183		0.281		12.86
H-02750/N*	**2.750**		2.750	3.250	0.275	2.885		3.245		0.281		13.01
H-02812/N*	**2.812**		2.812	3.312	0.275	2.947		3.307		0.281		13.24
H-02875/N*	**2.875**		2.875	3.375	0.275	3.010		3.370		0.281		13.46
H-02937/N*	**2.937**		2.937	3.437	0.275	3.073		3.433		0.281		14.46
H-03000/N	**3.000**	+.000 -.002	3.000	3.500	0.275	3.135		3.495		0.281		14.46
H-03125/N*	**3.125**		3.125	3.625	0.275	3.260		3.620		0.281		16.33
H-03250/N	**3.250**		3.250	3.750	0.275	3.385		3.745		0.281		16.38
H-03375/N*	**3.375**		3.375	3.875	0.275	3.510		3.870		0.281		16.53
H-03437/N	**3.437**		3.437	3.937	0.275	3.572		3.932		0.281		17.12
H-03500/N	**3.500**		3.500	4.000	0.275	3.635		3.995		0.281		17.30
H-03625/N*	**3.625**		3.625	4.125	0.275	3.760		4.120		0.281		17.87
H-03687/N*	**3.687**		3.687	4.187	0.275	3.822		4.182		0.281		19.46
H-03750/N*	**3.750**		3.750	4.250	0.275	3.885		4.245		0.281		19.66
H-03875/N*	**3.875**		3.875	4.375	0.275	4.010		4.370		0.281		18.94
H-04000/N	**4.000**		4.000	4.500	0.275	4.135		4.495		0.281		18.97

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

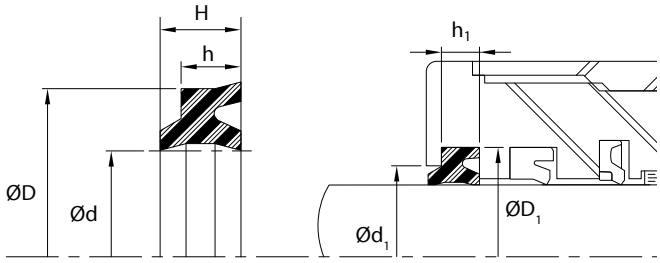
H/N series - NBR 80-90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
H-04125/N*	**4.125**	+.000 -.002	4.125	4.625	0.275	4.260	+.003 -.000	4.620	+.003 -.000	0.281	+.005 -.000	29.31
H-04250/N*	**4.250**		4.250	4.750	0.275	4.385		4.745		0.281		19.05
H-04375/N*	**4.375**		4.375	4.875	0.275	4.510		4.870		0.281		19.31
H-04437/N*	**4.437**		4.437	4.937	0.275	4.472		4.932		0.281		40.18
H-04500/N	**4.500**		4.500	5.000	0.275	4.635		4.995		0.281		15.28
H-04625/N*	**4.625**		4.625	5.125	0.275	4.760		5.120		0.281		20.16
H-04750/N*	**4.750**		4.750	5.250	0.275	4.885		5.245		0.281		20.71
H-04875/N*	**4.875**		4.875	5.375	0.275	5.010		5.370		0.281		24.90
H-05000/N	**5.000**		5.000	5.500	0.275	5.135		5.495		0.281		20.07
H-05125/N*	**5.125**		5.125	5.625	0.275	5.260		5.620		0.281		29.16
H-05187/N*	**5.187**		5.187	5.687	0.275	5.322		5.682		0.281		30.13
H-05250/N*	**5.250**		5.250	5.750	0.275	5.385		5.745		0.281		32.35
H-05375/N*	**5.375**		5.375	5.875	0.275	5.510		5.870		0.281		34.55
H-05500/N	**5.500**		5.500	6.000	0.275	5.635		5.995		0.281		17.38
H-05625/N*	**5.625**		5.625	6.125	0.275	5.760		6.120		0.281		34.75
H-05750/N*	**5.750**		5.750	6.250	0.275	5.885		6.245		0.281		35.34
H-05875/N*	**5.875**		5.875	6.375	0.275	6.010		6.370		0.281		35.85
H-06000/N	**6.000**		6.000	6.500	0.275	6.135		6.495		0.281		21.26
H-06250/N*	**6.250**		6.250	6.750	0.275	6.385		6.745		0.281		33.62
H-06375/N*	**6.375**		6.375	6.875	0.275	6.510		6.870		0.281		34.82
H-06500/N*	**6.500**		6.500	7.000	0.275	6.635		6.995		0.281		21.29
H-06750/N	**6.750**		6.750	7.250	0.275	6.885		7.245		0.281		73.95
H-07000/N*	**7.000**		7.000	7.500	0.275	7.135		7.495		0.281		56.03
H-07250/N*	**7.250**		7.250	7.750	0.275	7.385		7.745		0.281		64.98
H-07500/N*	**7.500**		7.500	8.000	0.275	7.635		7.995		0.281		66.38
H-07750/N*	**7.750**		7.750	8.250	0.275	7.885		8.245		0.281		67.22
H-08000/N*	**8.000**		8.000	8.500	0.275	8.135		8.495		0.281		56.90
H-08250/N*	**8.250**		8.250	8.750	0.275	8.385		8.745		0.281		54.88
H-08500/N*	**8.500**		8.500	9.000	0.275	8.635		8.995		0.281		59.13
H-08750/N*	**8.750**		8.750	9.250	0.275	8.885		9.245		0.281		61.59
H-09000/N	**9.000**		9.000	9.500	0.275	9.135		9.495		0.281		63.74
H-09250/N*	**9.250**		9.250	9.750	0.275	9.385		9.745		0.281		66.38
H-09500/N*	**9.500**		9.500	10.000	0.275	9.635		9.995		0.281		68.20
H-09750/N*	**9.750**		9.750	10.250	0.275	9.885		10.245		0.281		74.80
H-10000/N*	**10.000**		10.000	10.500	0.275	10.135		10.495		0.281		111.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Surface Speed
Fluorocarbon	-20°F to +400°F (-28°C to +204°C)	<1.6 ft/s (0.5 m/s)



H-style rod wipers are double-lip excluders sharing identical geometries for combining the actions of rod sealing and wiping. H wipers, available in plastic compounds, are intended for medium pressure hydraulic applications as a redundant rod seal or for low pressure systems as the sole rod seal and wiper. **H-style** available in rubber compounds, are typically used for pneumatic cylinders where lower friction is required.

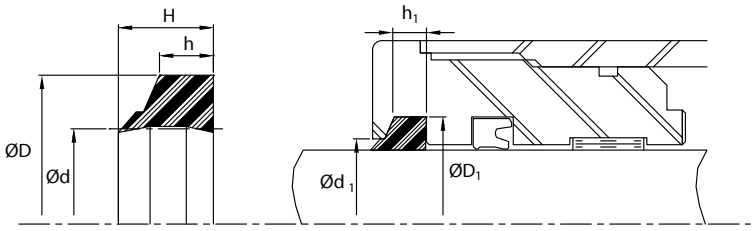
Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
H-00500/V*	**0.500**	+.000 -.001	0.500	0.812	0.194	0.620	+.002 -.000	0.802	+.002 -.000	0.203	+.005 -.000	16.55
H-00625/V	**0.625**		0.625	0.937	0.194	0.745		0.927		0.203		18.29
H-00750/V*	**0.750**		0.750	1.062	0.194	0.870		1.052		0.203		16.05
H-01000/V	**1.000**		1.000	1.375	0.212	1.135	+.003 -.000	1.365	+.003 -.000	0.218		19.65
H-01250/V	**1.250**		1.250	1.625	0.212	1.385		1.615		0.218		15.63
H-01375/V	**1.375**		1.375	1.750	0.212	1.510		1.740		0.218		35.92
H-01750/V	**1.750**		1.750	2.125	0.212	1.885		2.115		0.218		53.70
H-02000/V	**2.000**		2.000	2.375	0.212	2.135		2.365		0.218		27.76
H-02250/V*	**2.250**		2.250	2.750	0.275	2.385		2.745		0.281		29.43
H-02500/V	**2.500**		2.500	3.000	0.275	2.635		2.995		0.281		30.76
H-02750/V*	**2.750**		2.750	3.250	0.275	2.885		3.245		0.281		35.76
H-03000/V	**3.000**	+.000 -.002	3.000	3.500	0.275	3.135		3.495		0.281		39.02
H-03500/V	**3.500**		3.500	4.000	0.275	3.635		3.995		0.281		49.22
H-04000/V	**4.000**		4.000	4.500	0.275	4.135		4.495		0.281		54.38
H-04500/V	**4.500**		4.500	5.000	0.275	4.635		4.995		0.281		55.86
H-05000/V	**5.000**		5.000	5.500	0.275	5.135		5.495		0.281		59.01
H-05500/V	**5.500**		5.500	6.000	0.275	5.635		5.995		0.281		64.61
H-06000/V*	**6.000**		6.000	6.500	0.275	6.135		6.495		0.281		70.21
H-07000/V*	**7.000**	+.000/-.004	7.000	7.500	0.275	7.135		7.495		0.281		77.39

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

HBT - Rod wipers - Inch





Standard Material	Temperature Range
Hythane	-50°F to +230°F (-45°C to +110°C)

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
HBT-01050*	**0.625**	+.000 -.002	0.625	0.875	0.156	0.781	+.005 -.000	0.885	+.005 -.000	0.176	+.005 -.000	13.06
HBT-01260*	**0.750**		0.750	1.125	0.190	0.832		1.135		0.195		13.06
HBT-01460*	**0.875**		0.875	1.250	0.190	0.957		1.260		0.195		13.06
HBT-10060*	**1.000**		1.000	1.375	0.190	1.082		1.385		0.195		14.35
HBT-10260*	**1.125**		1.125	1.500	0.190	1.207		1.510		0.195		14.48
HBT-10460	**1.250**		1.250	1.625	0.190	1.332		1.635		0.195		14.48
HBT-10660*	**1.375**		1.375	1.750	0.190	1.457		1.760		0.195		14.56
HBT-10860*	**1.500**		1.500	1.875	0.190	1.582		1.885		0.195		23.22
HBT-11260	**1.750**		1.750	2.125	0.190	1.832		2.135		0.195		15.65
HBT-11460*	**1.875**		1.875	2.250	0.190	1.957		2.260		0.195		O/R
HBT-11580*	**1.938**		1.938	2.438	0.250	2.094		2.448		0.255		16.27
HBT-20060*	**2.000**		2.000	2.375	0.190	2.082		2.385		0.195		16.60
HBT-20460*	**2.250**		2.250	2.625	0.190	2.332		2.635		0.195		18.11
HBT-20481*	**2.210**		2.210	2.710	0.250	2.367		2.720		0.255		O/R
HBT-20791*	**2.438**		2.438	3.000	0.284	2.633		3.010		0.289		19.02
HBT-20860	**2.500**		2.500	2.875	0.190	2.577		2.885		0.195		20.07
HBT-20880*	**2.500**		2.500	3.000	0.250	2.652		3.010		0.255		21.24
HBT-21080*	**2.625**		2.625	3.125	0.250	2.777		3.135		0.255		21.99
HBT-21260*	**2.750**		2.750	3.125	0.190	2.827		3.135		0.195		22.28
HBT-21280*	**2.750**		2.750	3.250	0.250	2.902		3.260		0.255		O/R
HBT-30060*	**3.000**		3.000	3.375	0.190	3.077		3.385		0.195		O/R
HBT-30080*	**3.000**		3.000	3.500	0.250	3.152		3.510		0.255		25.74
HBT-30090*	**2.950**		2.950	3.500	0.275	3.146		3.510		0.280		26.78
HBT-30381*	**3.165**		3.165	3.734	0.284	3.317		3.744		0.289		O/R
HBT-30480*	**3.250**		3.250	3.750	0.250	3.402		3.760		0.255		28.58
HBT-30860*	**3.500**		3.500	3.875	0.190	3.577		3.885		0.195		O/R
HBT-30880*	**3.500**		3.500	4.000	0.250	3.562		4.010		0.255		29.04
HBT-30890*	**3.450**		3.450	4.000	0.275	3.646		4.010		0.280		29.75
HBT-31080	**3.625**		3.625	4.125	0.250	3.777		4.135		0.255		30.66
HBT-31280*	**3.750**		3.750	4.250	0.250	3.902		4.260		0.255		31.12
HBT-40080	**4.000**		4.000	4.500	0.250	4.152		4.510		0.255		32.20
HBT-40480*	**4.250**		4.250	4.750	0.250	4.402		4.760		0.255		34.42

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

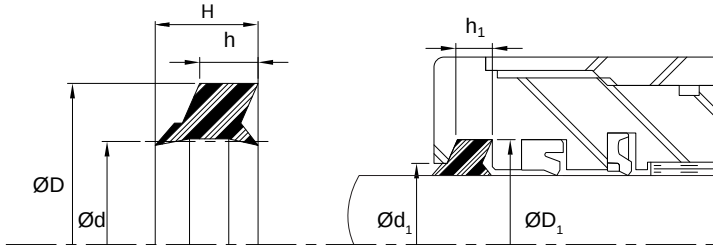
HBT series - HYTREL 92A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
HBT-40880	**4.500**	+.000 -.003	4.500	5.000	0.250	4.652	+.005 -.000	5.010	+.005 -.000	0.255	+.005 -.000	36.05
HBT-41280	**4.750**		4.750	5.250	0.250	4.902		5.260		0.255		37.67
HBT-41581*	**4.925**		4.925	5.484	0.284	5.090		5.489		0.289		O/R
HBT-50060*	**5.000**		5.000	5.375	0.190	5.077		5.385		0.195		O/R
HBT-50081*	**5.000**		5.000	5.500	0.250	5.152		5.510		0.255		49.87
HBT-50880	**5.450**		5.450	6.000	0.275	5.646		6.010		0.280		50.23
HBT-60080*	**6.000**		6.000	6.500	0.250	6.152		6.510		0.255		53.11

K - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Polyurethane	-40°F to +225°F (-40°C to +107°C)	< 1.6 ft/s (0.5 m/s)



K-style rod wipers offer a unique, light-load contact lip on both the sealing and wiping lips, making these excluders suitable for light duty industrial hydraulic applications. They are most commonly used in conjunction with rod seals to provide a redundant film-breaking lip

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
K-00500*	**0.500**	+.000 -.002	0.500	0.750	0.150	0.625	+.000 -.005	0.760	+.005 -.000	0.155	+.005 -.000	9.14
K-00625	**0.625**		0.625	0.875	0.150	0.750		0.885		0.155		7.43
K-00687	**0.687**		0.687	0.937	0.150	0.812		0.947		0.155		8.25
K-00750	**0.750**		0.750	1.125	0.190	0.832		1.135		0.195		9.02
K-00875	**0.875**		0.875	1.250	0.190	0.957		1.260		0.195		7.54
K-01000	**1.000**		1.000	1.375	0.190	1.082		1.385		0.195		7.69
K-01125	**1.125**		1.125	1.500	0.190	1.207		1.510		0.195		8.00
K-01187*	**1.187**		1.187	1.562	0.190	1.269		1.572		0.195		7.30

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

K series - AU 90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
K-01250	**1.250**	+.000 -.002	1.250	1.625	0.190	1.332	+.000 -.005	1.635	+.005 -.000	0.195	+.005 -.000	11.05
K-01375	**1.375**		1.375	1.750	0.190	1.457		1.760		0.195		9.23
K-01437	**1.437**		1.437	1.812	0.190	1.519		1.822		0.195		9.50
K-01500	**1.500**		1.500	1.875	0.190	1.582		1.885		0.195		9.83
K-01625*	**1.625**		1.625	2.000	0.190	1.707		2.010		0.195		10.00
K-01750	**1.750**		1.750	2.125	0.190	1.832		2.135		0.195		10.44
K-01875	**1.875**		1.875	2.250	0.190	1.957		2.260		0.195		10.50
K-01937*	**1.937**		1.937	2.312	0.190	2.019		2.322		0.195		10.75
K-02000	**2.000**		2.000	2.375	0.190	2.082		2.385		0.195		11.93
K-02125	**2.125**		2.125	2.500	0.190	2.207		2.510		0.195		15.99
K-02187*	**2.187**		2.187	2.562	0.190	2.269		2.572		0.195		11.35
K-02210*	**2.210**		2.210	2.710	0.250	2.367		2.720		0.255		11.75
K-02250	**2.250**		2.250	2.750	0.250	2.407		2.760		0.255		12.55
K-02251	**2.250**		2.250	2.625	0.190	2.332		2.635		0.195		12.46
K-02375*	**2.375**		2.375	2.875	0.250	2.532		2.885		0.255		13.15
K-02470	**2.470**		2.470	2.970	0.250	2.627		2.980		0.255		14.53
K-02500	**2.500**		2.500	3.000	0.250	2.657		3.010		0.255		13.20
K-02501	**2.500**		2.500	2.875	0.190	2.582		2.885		0.195		15.87
K-02501/V*	**2.500**		2.500	2.875	0.190	2.582		2.885		0.195		24.30
K-02625	**2.625**		2.625	3.125	0.250	2.782		3.135		0.255		14.06
K-02750	**2.750**		2.750	3.250	0.250	2.907		3.260		0.255		15.10
K-02751	**2.750**		2.750	3.125	0.190	2.832		3.135		0.195		15.35
K-02875*	**2.875**		2.875	3.375	0.250	3.032		3.385		0.255		15.99
K-02937*	**2.937**		2.937	3.437	0.250	3.094		3.447		0.255		16.40
K-03000	**3.000**		3.000	3.500	0.250	3.157		3.510		0.255		16.96
K-03000/V*	**3.000**		3.000	3.500	0.250	3.157		3.510		0.255		25.84
K-03001	**3.000**		3.000	3.375	0.190	3.082		3.385		0.195		18.40
K-03250	**3.250**		3.250	3.750	0.250	3.407		3.760		0.255		18.20
K-03375	**3.375**		3.375	3.875	0.250	3.532		3.885		0.255		20.10
K-03450*	**3.450**		3.450	4.000	0.243	3.607		4.010		0.247		20.10
K-03500	**3.500**		3.500	4.000	0.250	3.657		4.010		0.255		20.10
K-03501	**3.500**		3.500	3.875	0.190	3.582		3.885		0.195		24.73
K-03625	**3.625**		3.625	4.125	0.250	3.782		4.135		0.255		20.75
K-03687	**3.687**		3.687	4.187	0.250	3.844		4.197		0.255		21.48
K-03750	**3.750**		3.750	4.250	0.250	3.907		4.260		0.255		21.69
K-03751	**3.750**		3.750	4.125	0.190	3.832		4.135		0.195		21.95
K-03875*	**3.875**		3.875	4.375	0.250	4.032		4.385		0.255		22.43
K-03970*	**3.970**		3.970	4.470	0.250	4.127		4.480		0.255		22.76
K-03971*	**3.970**		3.970	4.281	0.156	4.095		4.291		0.161		24.87
K-04000	**4.000**		4.000	4.500	0.250	4.157		4.510		0.255		26.23
K-04062	**4.062**		4.062	4.562	0.250	4.219		4.572		0.255		27.50
K-04125	**4.125**		4.125	4.625	0.250	4.282		4.635		0.255		27.75
K-04250	**4.250**		4.250	4.750	0.250	4.407		4.760		0.255		28.00
K-04375*	**4.375**		4.375	4.875	0.250	4.562		4.885		0.255		28.25
K-04437	**4.437**	+.000 -.003	4.437	4.937	0.250	4.594		4.947		0.255		29.00
K-04500	**4.500**		4.500	5.000	0.250	4.657		5.010		0.255		30.57

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Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
K-04625	**4.625**	+.000 -.003	4.625	5.125	0.250	4.782	+.000 -.005	5.135	+.005 -.000	0.255	+.005 -.000	30.66
K-04700*	**4.700**		4.700	5.200	0.250	4.857		5.210		0.255		30.72
K-04750	**4.750**		4.750	5.250	0.250	4.907		5.260		0.255		30.82
K-04875*	**4.875**		4.875	5.375	0.250	5.032		5.385		0.255		30.87
K-05000	**5.000**		5.000	5.500	0.250	5.157		5.510		0.255		34.19
K-05250*	**5.250**		5.250	5.750	0.250	5.407		5.760		0.255		36.49
K-05375*	**5.375**		5.375	5.875	0.250	5.532		5.885		0.255		38.81
K-05500	**5.500**		5.500	6.000	0.250	5.657		6.010		0.255		38.99
K-05700*	**5.700**		5.700	6.250	0.280	5.896		6.260		0.285		39.12
K-05750*	**5.750**		5.750	6.250	0.250	5.907		6.260		0.255		39.37
K-05950*	**5.950**		5.950	6.450	0.250	6.107		6.460		0.255		39.75
K-06000	**6.000**		6.000	6.500	0.250	6.157		6.510		0.255		38.23
K-06500	**6.500**		6.500	7.000	0.250	6.657		7.010		0.255		39.43
K-07000	**7.000**		7.000	7.500	0.250	7.157		7.510		0.255		41.41
K-07500*	**7.500**		7.500	8.000	0.250	7.657		8.010		0.255		43.99
K-08000	**8.000**		8.000	8.500	0.250	8.157		8.510		0.255		90.94
K-08125	**8.125**		8.125	8.625	0.250	8.282		8.635		0.255		78.59
K-08500*	**8.500**		8.500	9.000	0.250	8.657		9.010		0.255		80.43
K-09125*	**9.125**		9.125	9.625	0.250	9.282		9.635		0.255		136.97
K-09375	**9.375**		9.375	9.875	0.250	9.532		9.885		0.255		145.76

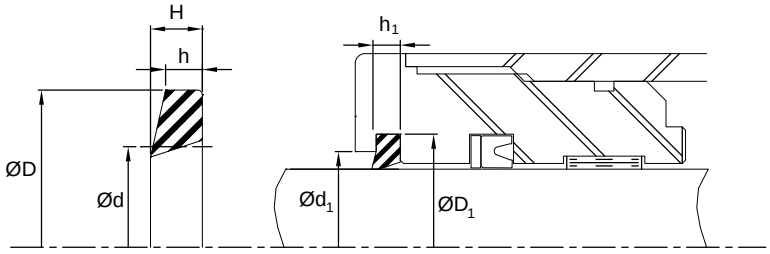
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



LDW - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Nitrile	-22°F to +212°F (-30°C to +100°C)	< 10 ft/s (3 m/s)



LDW-Style rod wiper is designed to remove potential system contaminants from a reciprocating rod during the negative stroke. It is classified as a light duty wiper and is precision moulded in Nitrile 90° rubber. The wiper is machine trimmed to provide a precise wiping lip.The wiper is compact in design making it ideal for use where space is an important factor.

Alternate Materials : For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
LDW-00375*	**0.375**	+.000 -.002	0.375	0.540	0.120	0.430	+.010 -.000	0.540	+.010 -.000	0.120	+.010 -.000	17.09
LDW-00437*	**0.437**		0.437	0.610	0.120	0.495		0.610		0.120		17.09
LDW-00500*	**0.500**		0.500	0.680	0.130	0.560		0.680		0.130		4.13
LDW-00562*	**0.562**		0.562	0.740	0.130	0.630		0.740		0.130		O/R
LDW-00625	**0.625**		0.625	0.820	0.140	0.700		0.820		0.140		5.06
LDW-00687*	**0.687**		0.687	0.880	0.140	0.760		0.880		0.140		O/R
LDW-00750*	**0.750**		0.750	0.950	0.140	0.820		0.950		0.140		7.90
LDW-00812*	**0.812**		0.812	1.020	0.140	0.880		1.020		0.140		O/R
LDW-00875*	**0.875**		0.875	1.080	0.150	0.950		1.080		0.150		6.12
LDW-00937*	**0.937**		0.937	1.150	0.150	1.010		1.150		0.150		O/R
LDW-01000*	**1.000**		1.000	1.240	0.160	1.080		1.240		0.160		5.08
LDW-01125*	**1.125**		1.125	1.360	0.160	1.210		1.360		0.160		5.28
LDW-01187*	**1.187**		1.187	1.420	0.160	1.270		1.420		0.160		O/R
LDW-01250*	**1.250**		1.250	1.490	0.170	1.330		1.490		0.170		6.12
LDW-01312*	**1.312**		1.312	1.550	0.170	1.390		1.550		0.170		O/R
LDW-01375	**1.375**		1.375	1.620	0.170	1.460		1.620		0.170		6.12
LDW-01500	**1.500**		1.500	1.770	0.180	1.590		1.770		0.180		5.67
LDW-01625*	**1.625**		1.625	1.880	0.180	1.720		1.880		0.180		14.15
LDW-01687*	**1.687**		1.687	1.960	0.190	1.780		1.960		0.190		O/R
LDW-01750	**1.750**		1.750	2.030	0.190	1.850		2.030		0.190		6.12
LDW-01875*	**1.875**		1.875	2.160	0.190	1.970		2.160		0.190		8.41
LDW-02000	**2.000**		2.000	2.300	0.200	2.100		2.300		0.200		7.57

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

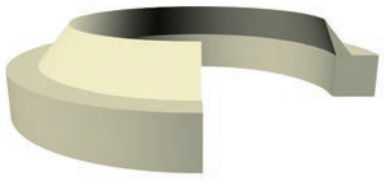
LDW series - NBR 85A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
LDW-02125*	**2.125**	+.000 -.002	2.125	2.430	0.210	2.230	+.010 -.000	2.430	+.010 -.000	0.210	+.010 -.000	8.41
LDW-02250*	**2.250**		2.250	2.570	0.210	2.360		2.570		0.210		7.12
LDW-02375*	**2.375**		2.375	2.700	0.220	2.490		2.700		0.220		8.62
LDW-02500*	**2.500**	+.000 -.003	2.500	2.840	0.220	2.610		2.840		0.220		7.34
LDW-02625*	**2.625**		2.625	2.970	0.230	2.740		2.970		0.230		8.41
LDW-02750*	**2.750**		2.750	3.110	0.230	2.870		3.110		0.230		7.57
LDW-02875*	**2.875**		2.875	3.240	0.240	2.970		3.240		0.240		9.04
LDW-03000*	**3.000**	+.000 -.004	3.000	3.380	0.240	3.130		3.380		0.240		7.57
LDW-03125*	**3.125**		3.125	3.515	0.250	3.260		3.515		0.250		8.23
LDW-03250*	**3.250**		3.250	3.650	0.250	3.390		3.650		0.250		15.22
LDW-03375*	**3.375**		3.375	3.780	0.260	3.510		3.780		0.260		O/R
LDW-03500*	**3.500**		3.500	3.920	0.270	3.640		3.920		0.270		9.24
LDW-03625*	**3.625**		3.625	4.055	0.280	3.770		4.055		0.280		11.58
LDW-03750*	**3.750**		3.750	4.190	0.280	3.900		4.190		0.280		9.47
LDW-04000	**4.000**	+.000 -.005	4.000	4.460	0.290	4.160		4.460		0.290		15.01
LDW-04250*	**4.250**		4.250	4.730	0.300	4.410		4.730		0.300		23.50
LDW-04375*	**4.375**		4.375	4.860	0.300	4.540		4.860		0.300		O/R
LDW-04500*	**4.500**		4.500	5.000	0.310	4.670		5.000		0.310		25.02
LDW-05250*	**5.250**		5.250	5.810	0.340	5.440		5.810		0.340		O/R
LDW-05375*	**5.375**		5.375	5.945	0.344	5.570		5.945		0.344		O/R
LDW-05500*	**5.500**		5.500	6.080	0.350	5.700		6.080		0.350		O/R
LDW-05625*	**5.625**		5.625	6.125	0.355	5.825		6.125		0.355		O/R
LDW-06000*	**6.000**		6.000	6.620	0.364	6.210		6.620		0.364		O/R
LDW-06625*	**6.625**		6.625	7.295	0.405	6.850		7.295		0.405		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

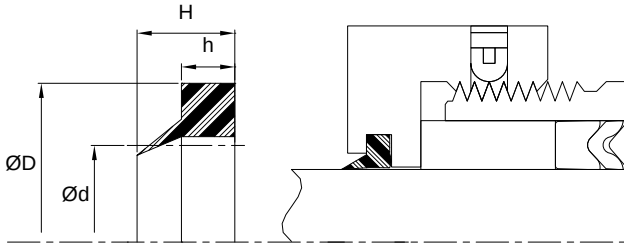


CI - Rod wipers - Inch



Standard Material	Temperature Range
Hytrel	-40°F to +300°F (-40°C to +149°C)

REF: COMMERCIAL INTERTECH TELESCOPIC CYLINDERS



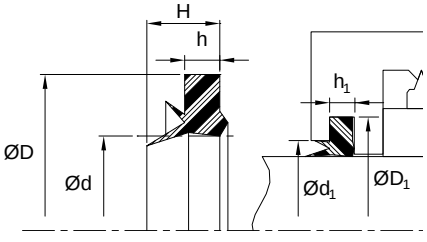
Ref.Number	Rod Diameter		Nominal Seal Dimensions			$
		Tol.	d	D	h	
CI-02750W	**2.750**	+.000/-.003	2.750	3.125	0.170	5.78
CI-03750W	**3.750**	+.000/-.004	3.750	4.125	0.170	6.62
CI-04750W	**4.750**	+.000 -.005	4.750	5.125	0.170	12.64
CI-05750W	**5.750**		5.750	6.125	0.170	14.26
CI-06750W	**6.750**		6.750	7.125	0.170	15.42
CI-07905W	**7.905**		7.905	8.280	0.170	17.80
CI-09375W*	**9.375**		9.375	9.750	0.170	114.80

HYC - Rod wipers - Inch



Standard Material	Temperature Range
Hytrel	-40°F to +300°F (-40°C to +149°C)

REF: HYCO TELESCOPIC CYLINDERS



Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions			$
		Tol.	d	D	h	d1	D1	h1	
HYC-03000W	**3.000**	+.000/-.003	3.000	3.500	0.125	3.300	3.530	0.139	11.12
HYC-04000W	**4.000**	+.000/-.004	4.000	4.500	0.125	4.300	4.530	0.139	17.18
HYC-05000W	**5.000**	+.000 -.005	5.000	5.500	0.125	5.300	5.530	0.139	22.43
HYC-06000W	**6.000**		6.000	6.500	0.125	6.300	6.530	0.139	25.08
HYC-07000W	**7.000**		7.000	7.500	0.125	7.300	7.530	0.139	27.15
HYC-08000W	**8.000**		8.000	8.500	0.125	8.300	8.530	0.139	58.47
HYC-08125W	**8.125**		8.125	8.625	0.125	8.425	8.655	0.139	50.55
HYC-08250W*	**8.250**		8.250	8.750	0.125	8.550	8.780	0.139	63.34
HYC-09000W*	**9.000**		9.000	9.500	0.125	9.300	9.530	0.139	76.57
HYC-09125W	**9.125**		9.125	9.625	0.125	9.425	9.655	0.139	88.04
HYC-09375W	**9.375**		9.375	9.875	0.125	9.675	9.905	0.139	93.74
HYC-09750W	**9.750**		9.750	10.250	0.125	10.050	10.280	0.139	191.01

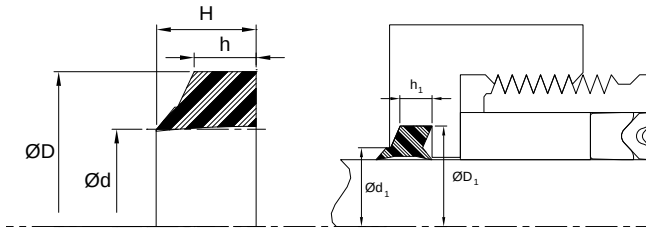
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PG - Rod wipers - Inch



Standard Material	Temperature Range
Hytrel	-40°F to +300°F (-40°C to +149°C)

REF: PEABODY GALION TELESCOPIC CYLINDERS



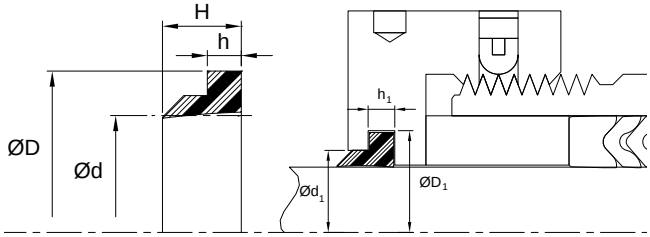
Ref.Number	Rod Diameter Tol.	Nominal Seal Dimensions d	D	h	$
PG-01970W*	**1.970** +.000/-.002	1.970	2.270	0.170	7.84
PG-02970W*	**2.970** +.000/-.003	2.970	3.270	0.170	9.93
PG-03970W	**3.970** +.000/-.004	3.970	4.270	0.170	12.68
PG-04970W	**4.970** +.000 -.005	4.970	5.270	0.170	14.31
PG-05970W	**5.970**	5.970	6.270	0.170	16.32
PG-06970W*	**6.970**	6.970	7.270	0.170	17.88
PG-07970W*	**7.970**	7.970	8.270	0.170	19.60
PG-09125W*	**9.125**	9.125	9.465	0.170	23.43

PC - Rod wipers - Inch



Standard Material	Temperature Range
Polyurethane	-40°F to +189°F (-40°C to +87°C)

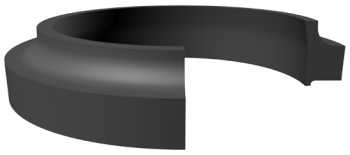
REF: PERFECTION COBEY TELESCOPIC CYLINDERS



Ref.Number	Rod Diameter Tol.	Nominal Seal Dimensions d	D	h	$
PC-02580W	**2.580** +.000/-.003	2.580	2.980	0.190	9.50
PC-03580W	**3.580** +.000/-.004	3.580	3.980	0.190	10.96
PC-04580W*	**4.580** +.000 -.005	4.580	5.080	0.190	12.67
PC-05445W*	**5.445**	5.445	5.945	0.190	13.79
PC-06445W*	**6.445**	6.445	6.945	0.190	16.19
PC-07445W*	**7.445**	7.445	7.945	0.190	17.29
PC-08445W*	**8.445**	8.445	8.945	0.190	19.79

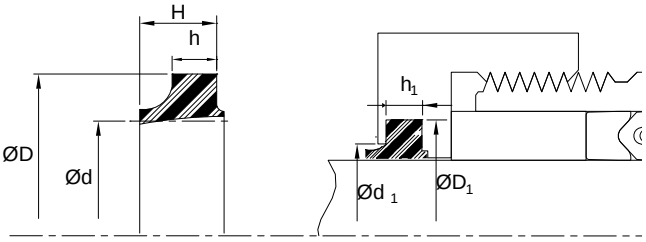
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

TRA - Rod wipers - Inch



Standard Material	Temperature Range
Hytrel	-40°F to +300°F (-40°C to +149°C)

REF: TRAILMOBILE TELESCOPIC CYLINDERS



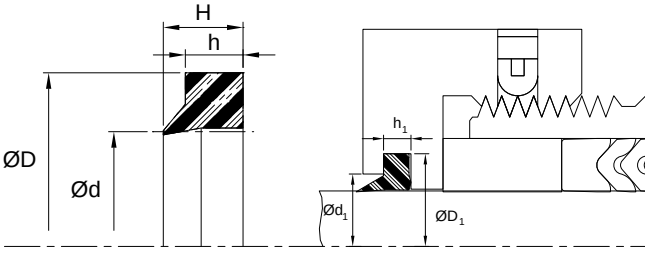
Ref.Number	Rod Diameter		Nominal Seal Dimensions			$
	Tol.		d	D	h	
TRA-03375W*	**3.375**	+.000/-.004	3.375	3.750	0.165	18.39
TRA-04250W*	**4.250**	+.000 -.005	4.250	4.625	0.165	7.94
TRA-05125W*	**5.125**		5.125	5.500	0.165	9.72
TRA-06000W*	**6.000**		6.000	6.375	0.165	11.68
TRA-07000W*	**7.000**		7.000	7.375	0.165	17.51
TRA-08000W*	**8.000**		8.000	8.375	0.165	19.07
TRA-08250W*	**8.250**		8.250	8.625	0.165	32.68
TRA-09625W*	**9.625**		9.625	10.000	0.165	36.81

WAR - Rod wipers - Inch



Standard Material	Temperature Range
Polyurethane	-40°F to +189°F (-40°C to +87°C)

REF: WARD TELESCOPIC CYLINDERS



Ref.Number	Rod Diameter		Nominal Seal Dimensions			$
	Tol.		d	D	h	
WAR-02950W*	**2.950**	+.000/-.003	2.950	3.325	0.195	9.50
WAR-03950W*	**3.950**	+.000/-.004	3.950	4.325	0.195	11.60
WAR-04950W*	**4.950**	+.000 -.005	4.950	5.325	0.195	13.07
WAR-05950W*	**5.950**		5.950	6.325	0.195	15.60
WAR-06950W*	**6.950**		6.950	7.325	0.195	19.98
WAR-07950W*	**7.950**		7.950	8.325	0.195	22.14
WAR-08950W*	**8.950**		8.950	9.325	0.195	42.02

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

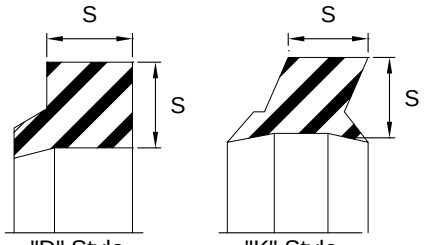
D & K Wiper Cord - Rod wipers - Inch



Standard Material	Temperature Range
Nitrile	-30°F to +250°F (-34°C to +121°C)

An economical wiper made from 70 duro Nitrile can be offered to users of both pneumatic and hydraulic equipment. A length of wiper strip is cut to the circumference of the rod and inserted in the recess to form the wiper and keep out foreign material. The simplicity of the design plus the fact that the wiper will not cause scoring makes it very popular.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

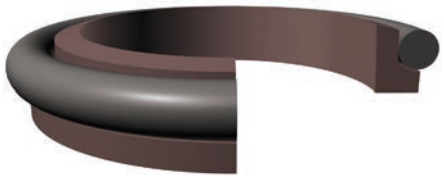


Ref.Number	Rod Diameter	Nominal Seal Dimensions		$
	Tol.	S	Tol.	
WC-00156K		0.156	+.010/-.010	5.40
WC-00187D		0.187	+.013/-.013	10.77
WC-00187K		0.187	+.013/-.013	4.36
WC-00250K		0.250	+.016/-.016	3.65

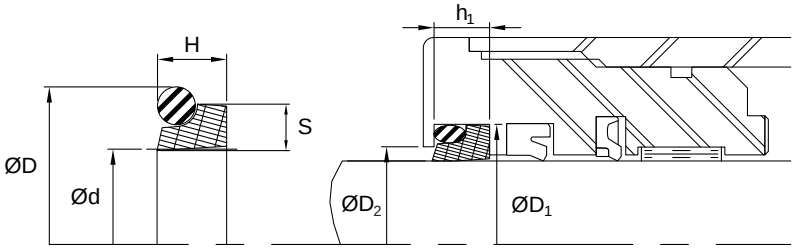


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EX1 - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
BR.PTFE/ Nitrile	-30°F to +250°F (-34°C to +121°C)	< 13 ft/s (4 m/s)



EX1-style rod wipers are comprised of a scraper element made of PTFE/Bronze and an O'Ring as a loader ring. The scraping function is performed by the PTFE element while the O'Ring guarantees that the scraper lip presses against the sliding surface uniformly.

Alternate Materials : For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX1-00250*	**0.250**	+.000 -.002	0.250	0.436	0.144	0.356	+.000 -.005	0.436	+.002 -.000	0.144	+.005 -.000	29.38
EX1-00312*	**0.312**		0.312	0.498	0.144	0.418		0.498		0.144		29.38
EX1-00375*	**0.375**		0.375	0.561	0.144	0.481		0.561		0.144		29.38
EX1-00437*	**0.437**		0.437	0.623	0.144	0.543		0.623		0.144		29.38
EX1-00500*	**0.500**		0.500	0.766	0.195	0.637		0.766		0.195		29.38
EX1-00500LD*	**0.500**		0.500	0.686	0.144	0.606		0.686		0.144		29.38
EX1-00562*	**0.562**		0.562	0.828	0.195	0.699		0.828		0.195		29.38
EX1-00562LD*	**0.562**		0.562	0.748	0.144	0.668		0.748		0.144		29.38
EX1-00625*	**0.625**		0.625	0.891	0.195	0.762		0.891		0.195		29.38
EX1-00625LD*	**0.625**		0.625	0.811	0.144	0.731		0.811		0.144		29.38
EX1-00687*	**0.687**		0.687	0.953	0.195	0.824		0.953		0.195		29.38
EX1-00687LD*	**0.687**		0.687	0.873	0.144	0.793		0.873		0.144		29.38
EX1-00750*	**0.750**		0.750	1.016	0.195	0.887		1.016		0.195		38.76
EX1-00750LD*	**0.750**		0.750	0.936	0.144	0.856		0.936		0.144		38.76
EX1-00812*	**0.812**		0.812	1.078	0.195	0.949		1.078		0.195		38.76
EX1-00812LD*	**0.812**		0.812	0.998	0.144	0.918		0.998		0.144		38.76
EX1-00875*	**0.875**		0.875	1.141	0.195	1.012		1.141		0.195		38.76
EX1-00875LD*	**0.875**		0.875	1.061	0.144	0.981		1.061		0.144		38.76
EX1-00937*	**0.937**		0.937	1.203	0.195	1.074		1.203		0.195		38.76
EX1-00937LD*	**0.937**		0.937	1.123	0.144	1.043		1.123		0.144		38.76
EX1-01000	**1.000**		1.000	1.266	0.195	1.137		1.266		0.195		38.76
EX1-01000LD*	**1.000**		1.000	1.186	0.144	1.106		1.186		0.144		38.76

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Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX1-01062*	**1.062**	+.000 -.002	1.062	1.328	0.195	1.199	+.000 -.005	1.328	+.002 -.000	0.195	+.005 -.000	38.76
EX1-01062LD*	**1.062**		1.062	1.248	0.144	1.168		1.248		0.144		38.76
EX1-01125*	**1.125**		1.125	1.391	0.195	1.262		1.391		0.195		38.76
EX1-01125LD*	**1.125**		1.125	1.311	0.144	1.231		1.311		0.144		38.76
EX1-01187*	**1.187**		1.187	1.453	0.195	1.324		1.453		0.195		38.76
EX1-01187LD*	**1.187**		1.187	1.373	0.144	1.293		1.373		0.144		38.76
EX1-01250	**1.250**		1.250	1.516	0.195	1.387		1.516		0.195		44.02
EX1-01250LD*	**1.250**		1.250	1.436	0.144	1.356		1.436		0.144		44.02
EX1-01312*	**1.312**		1.312	1.578	0.195	1.449		1.578		0.195		44.02
EX1-01312LD*	**1.312**		1.312	1.498	0.144	1.418		1.498		0.144		44.02
EX1-01375	**1.375**		1.375	1.641	0.195	1.512		1.641		0.195		44.02
EX1-01375LD*	**1.375**		1.375	1.561	0.144	1.481		1.561		0.144		44.02
EX1-01437*	**1.437**		1.437	1.703	0.195	1.574		1.703		0.195		44.02
EX1-01437LD*	**1.437**		1.437	1.623	0.144	1.543		1.623		0.144		44.02
EX1-01500*	**1.500**		1.500	1.766	0.195	1.637		1.766		0.195		44.02
EX1-01500LD*	**1.500**		1.500	1.686	0.144	1.606		1.686		0.144		44.02
EX1-01625*	**1.625**		1.625	1.891	0.195	1.762		1.891		0.195		44.02
EX1-01625LD*	**1.625**		1.625	1.811	0.144	1.731		1.811		0.144		44.02
EX1-01750	**1.750**		1.750	2.016	0.195	1.887		2.016		0.195		49.12
EX1-01750LD*	**1.750**		1.750	1.936	0.144	1.856		1.936		0.144		49.12
EX1-01875*	**1.875**		1.875	2.141	0.195	2.012		2.141		0.195		49.12
EX1-01875LD*	**1.875**		1.875	2.061	0.144	1.981		2.061		0.144		49.12
EX1-02000	**2.000**		2.000	2.266	0.195	2.137		2.266		0.195		49.12
EX1-02000LD*	**2.000**		2.000	2.187	0.144	2.106		2.187		0.144		49.12
EX1-02125*	**2.125**		2.125	2.391	0.195	2.262		2.391		0.195		49.12
EX1-02125LD*	**2.125**		2.125	2.311	0.144	2.231		2.311		0.144		49.12
EX1-02250	**2.250**		2.250	2.516	0.195	2.387		2.516		0.195		54.37
EX1-02250LD*	**2.250**		2.250	2.436	0.144	2.356		2.436		0.144		54.37
EX1-02375*	**2.375**		2.375	2.641	0.195	2.512		2.641		0.195		54.37
EX1-02375LD*	**2.375**		2.375	2.561	0.144	2.481		2.561		0.144		54.37
EX1-02500	**2.500**		2.500	2.766	0.195	2.637		2.766		0.195		54.37
EX1-02500LD*	**2.500**		2.500	2.686	0.144	2.606		2.686		0.144		54.37
EX1-02625*	**2.625**		2.625	2.971	0.240	2.782		2.971		0.240		54.37
EX1-02750	**2.750**		2.750	3.096	0.240	2.907		3.096		0.240		59.90
EX1-02875*	**2.875**		2.875	3.221	0.240	3.032		3.221		0.240		59.90
EX1-03000	**3.000**	+.000 -.003	3.000	3.345	0.240	3.157		3.345		0.240		59.90
EX1-03000/30K	**3.000**		3.000	3.345	0.240	3.157		3.345		0.240		61.63
EX1-03125*	**3.125**		3.125	3.470	0.240	3.282		3.470		0.240		59.90
EX1-03250*	**3.250**		3.250	3.595	0.240	3.407		3.595		0.240		59.90
EX1-03375*	**3.375**		3.375	3.720	0.240	3.532		3.720		0.240		59.90
EX1-03500	**3.500**		3.500	3.845	0.240	3.657		3.845		0.240		59.90
EX1-03625*	**3.625**		3.625	3.970	0.240	3.782		3.970		0.240		59.90
EX1-03750*	**3.750**		3.750	4.095	0.240	3.907		4.095		0.240		59.90
EX1-03875*	**3.875**		3.875	4.220	0.240	4.032		4.220		0.240		59.90
EX1-04000	**4.000**	+.000 -.005	4.000	4.345	0.240	4.157		4.345		0.240		72.13
EX1-04125*	**4.125**		4.125	4.470	0.240	4.282		4.470		0.240		72.13

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

EX1 series - BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX1-04250	**4.250**	+.000 -.005	4.250	4.595	0.240	4.407	+.000 -.005	4.595	+.002 -.000	0.240	+.005 -.000	72.13
EX1-04375*	**4.375**		4.375	4.720	0.240	4.532		4.720		0.240		72.13
EX1-04500	**4.500**		4.500	4.845	0.240	4.657		4.845	+.003 -.000	0.240		72.13
EX1-04625*	**4.625**		4.625	4.970	0.240	4.782		4.970		0.240		72.13
EX1-04750	**4.750**		4.750	5.095	0.240	4.907		5.095		0.240		72.13
EX1-04875*	**4.875**		4.875	5.220	0.240	5.032		5.220		0.240		72.13
EX1-05000	**5.000**		5.000	5.345	0.240	5.157		5.345		0.240		88.01
EX1-05125*	**5.125**		5.125	5.470	0.240	5.282		5.470		0.240		88.01
EX1-05250	**5.250**		5.250	5.595	0.240	5.407		5.595		0.240		88.01
EX1-05375*	**5.375**		5.375	5.720	0.240	5.532		5.720		0.240		88.01
EX1-05500	**5.500**		5.500	5.845	0.240	5.657		5.845		0.240		88.01
EX1-05625*	**5.625**		5.625	5.970	0.240	5.782		5.970		0.240		88.01
EX1-05750	**5.750**		5.750	6.095	0.240	5.907		6.095		0.240		88.01
EX1-05875*	**5.875**		5.875	6.220	0.240	6.032		6.220		0.240		88.01
EX1-06000	**6.000**		6.000	6.345	0.240	6.157		6.345		0.240		98.45
EX1-06250*	**6.250**		6.250	6.595	0.240	6.407		6.595		0.240		98.45
EX1-06500*	**6.500**		6.500	6.845	0.240	6.657		6.845		0.240		98.45
EX1-06750*	**6.750**		6.750	7.095	0.240	6.907		7.095		0.240		98.45
EX1-07000*	**7.000**		7.000	7.345	0.240	7.157		7.345		0.240		120.66
EX1-07250*	**7.250**		7.250	7.595	0.240	7.407		7.595		0.240		120.66
EX1-07500*	**7.500**		7.500	7.845	0.240	7.657		7.845		0.240		120.66
EX1-07750*	**7.750**		7.750	8.045	0.240	7.907		8.045		0.240		120.66
EX1-08000*	**8.000**		8.000	8.345	0.240	8.157		8.345	+.005 -.000	0.240		127.98
EX1-08500*	**8.500**		8.500	8.845	0.240	8.657		8.845		0.240		127.98
EX1-09000*	**9.000**		9.000	9.345	0.240	9.157		9.345		0.240		144.45
EX1-09500*	**9.500**		9.500	9.845	0.240	9.657		9.845		0.240		144.45
EX1-10000*	**10.000**		10.000	10.345	0.240	10.157		10.345		0.240		188.39

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



EX2 - EX5 - Rod wipers - Inch

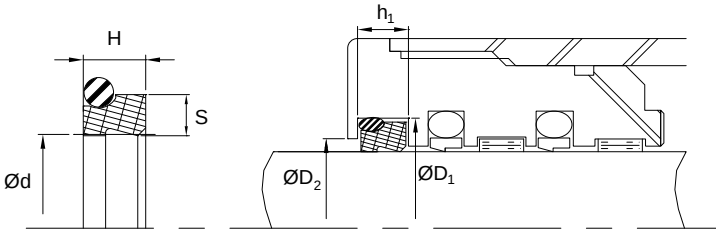


EX2



EX5

Standard Material	Temperature Range	Surface Speed
BR.PTFE/ Nitrile	-30°F to +250°F (-34°C to +121°C)	< 13 ft/s (4 m/s)



EX2/EX5-style rod wipers are double-lips scraper with asymmetrical lips installed one behind the other. **EX2/EX5-style** rod wipers are installed with an elastomeric O'Ring in a single groove. While the **EX2/EX5-style** ring does the scraping duties, the O'Ring insures a positive pressure on the sliding surface to compensate for any deflection or misalignment of the rod.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d2	Tol.	D1	Tol.	h1	Tol.	
EX2-00312*	**0.312**	+.000 -.001				0.373	+.004 -.000	0.503	+.001 -.000	0.146	+.008 -.000	32.19
EX2-00375*	**0.375**					0.435		0.565		0.146		32.19
EX2-00437*	**0.437**	+.000 -.002				0.497		0.628	+.002 -.000	0.146		32.19
EX2-00500*	**0.500**					0.560		0.690		0.146		32.19
EX2-00500HD*	**0.500**					0.560		0.770		0.196		32.19
EX2-00562*	**0.562**					0.622		0.753		0.146		32.19
EX2-00562HD*	**0.562**					0.622		0.833		0.196		32.19
EX2-00625*	**0.625**					0.685		0.815		0.146		32.19
EX2-00625HD*	**0.625**					0.685		0.895		0.196		32.19
EX2-00687*	**0.687**					0.747		0.878		0.146		32.19
EX2-00687HD*	**0.687**					0.747		0.958		0.196		32.19
EX2-00750	**0.750**					0.810	+.005 -.000	0.940		0.146		32.19
EX2-00750HD*	**0.750**					0.810		1.020		0.196		32.19
EX2-00812*	**0.812**					0.872		1.003		0.146		42.46
EX2-00812HD*	**0.812**					0.872		1.083		0.196		42.46
EX2-00875*	**0.875**					0.935		1.065		0.146		42.46
EX2-00875HD*	**0.875**					0.935		1.145		0.196		42.46
EX2-00937*	**0.937**					0.997		1.128		0.146		42.46
EX2-00937HD*	**0.937**					0.997		1.208		0.196		42.46
EX2-01000	**1.000**					1.060		1.190		0.146		48.23
EX2-01000HD*	**1.000**					1.060		1.270		0.196		48.23
EX5-01000*	**1.000**					1.060		1.346		0.248		40.61

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

EX2 - EX5 series - BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX2-01062*	**1.062**	+.000 -.002				1.122	+.005/-.000	1.333	+.002 -.000	0.196	+.008 -.000	48.23
EX2-01125*	**1.125**					1.185	+.006 -.000	1.395		0.196		48.23
EX2-01187*	**1.187**					1.247		1.458		0.196		48.23
EX2-01250*	**1.250**					1.310		1.520		0.196		48.23
EX2-01312*	**1.312**					1.372		1.583		0.196		48.23
EX2-01375	**1.375**					1.435		1.645		0.196		48.23
EX2-01437*	**1.437**					1.497		1.708		0.196		48.23
EX2-01500*	**1.500**					1.560		1.770		0.196		48.23
EX5-01500*	**1.500**					1.560		1.846		0.248		59.32
EX2-01562*	**1.562**					1.622		1.833		0.196		48.23
EX2-01625	**1.625**					1.685		1.895		0.196		48.23
EX2-01687*	**1.687**					1.747		1.958		0.196		48.23
EX2-01750	**1.750**					1.810		2.020		0.196		53.81
EX2-01812*	**1.812**					1.872		2.083		0.196		53.81
EX2-01875*	**1.875**					1.935		2.145		0.196		53.81
EX2-01937*	**1.937**					1.997	+.007 -.000	2.208	+.003 -.000	0.196		53.81
EX2-02000	**2.000**	+.000 -.003				2.060		2.270		0.196		53.81
EX5-02000*	**2.000**					2.060		2.346		0.248		66.24
EX2-02125*	**2.125**					2.185		2.395		0.196		53.81
EX2-02250*	**2.250**					2.310		2.520		0.196		59.74
EX2-02375*	**2.375**					2.435		2.645		0.196		59.74
EX2-02500	**2.500**					2.560		2.770		0.196		59.74
EX5-02500	**2.500**					2.560		2.846		0.248		73.49
EX2-02625*	**2.625**					2.685		2.895		0.196		59.74
EX2-02750	**2.750**					2.810		3.020		0.196		65.39
EX2-02875*	**2.875**					2.935		3.145		0.196		65.39
EX2-03000	**3.000**					3.060		3.270		0.196		65.39
EX2-03000/2-CHPU*	**3.000**					3.060		3.345		0.236		82.01
EX5-03000*	**3.000**					3.080		3.480		0.319		80.49
EX2-03125*	**3.125**					3.185	+.009 -.000	3.395		0.196		65.39
EX2-03250*	**3.250**					3.310		3.520		0.196		65.77
EX2-03375*	**3.375**					3.435		3.645		0.196		65.77
EX2-03500	**3.500**					3.560		3.770		0.196		65.77
EX5-03500	**3.500**					3.580		3.980		0.319		80.94
EX2-03625*	**3.625**					3.685		3.895		0.196		65.77
EX2-03750*	**3.750**					3.810		4.020		0.196		71.67
EX2-03875*	**3.875**					3.935		4.145		0.196		71.67
EX2-04000	**4.000**					4.060		4.270		0.196		71.67
EX5-04000*	**4.000**					4.080		4.480		0.319		88.19
EX2-04125*	**4.125**					4.185		4.395		0.196		71.67
EX2-04250*	**4.250**					4.310		4.520		0.196		79.47
EX2-04375*	**4.375**					4.435		4.645		0.196		79.47
EX2-04500*	**4.500**					4.560		4.770		0.196		79.47
EX2-04500/IR/30K	**4.500**					4.560		4.812	+.004/-.000	0.221		101.54
EX5-04500*	**4.500**					4.580		4.980	+.003/-.000	0.319		97.80
EX2-04625*	**4.625**					4.685	+.010/-.000	4.895	+.004/-.000	0.196		79.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

EX2 - EX5 series - BR.PTFE/NBR

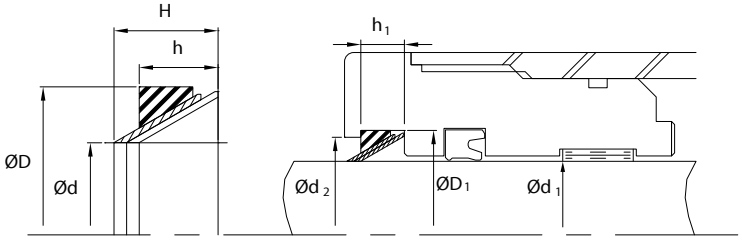
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX2-04750*	**4.750**	+.000 -.004				4.810	+.010 -.000	5.020	+.004 -.000	0.196	+.008 -.000	84.65
EX2-04875*	**4.875**					4.935		5.145		0.196		84.65
EX2-05000*	**5.000**					5.060		5.270		0.196		84.65
EX5-05000*	**5.000**					5.080		5.480		0.319		104.13
EX2-05125*	**5.125**					5.185		5.395		0.196		84.65
EX2-05187/HD-30K	**5.187**					5.247		5.532		0.236		273.77
EX2-05250*	**5.250**					5.310		5.520		0.196		96.08
EX2-05375*	**5.375**					5.435		5.645		0.196		96.08
EX2-05500*	**5.500**					5.560		5.770		0.196		96.08
EX5-05500*	**5.500**					5.600		6.130		0.374		118.15
EX2-05625*	**5.625**					5.685		5.895		0.196		96.08
EX2-05750*	**5.750**					5.810		6.020		0.196		101.83
EX2-06000*	**6.000**					6.060		6.270		0.196		113.26
EX2-06001*	**6.000**					6.060		6.345		0.240		93.77
EX2-06001/U*	**6.000**					6.060		6.345		0.240		170.60
EX5-06000	**6.000**					6.100		6.630		0.374		139.35
EX2-06250*	**6.250**					6.310		6.595		0.236		118.88
EX2-06500	**6.500**					6.560		6.845		0.236		118.88
EX5-06500*	**6.500**					6.600		7.130		0.374		146.27
EX2-06750*	**6.750**					6.810		7.095		0.236		118.88
EX2-07000*	**7.000**					7.060		7.345		0.236		118.88
EX5-07000	**7.000**					7.100	+.011 -.000	7.630	+.005 -.000	0.374		146.27
EX2-07250*	**7.250**	+.000 -.005				7.310		7.595		0.236		132.35
EX2-07500*	**7.500**					7.560		7.845		0.236		132.35
EX2-07750*	**7.750**					7.810		8.095		0.236		138.23
EX2-08000	**8.000**					8.060		8.345		0.236		148.86
EX5-08000*	**8.000**					8.100		8.630		0.374		170.13
EX2-08250*	**8.250**					8.310		8.595		0.236		140.23
EX2-08500*	**8.500**					8.560		8.845		0.236		140.23
EX5-08500*	**8.500**					8.600		9.130		0.374		164.24
EX2-08750*	**8.750**					8.810		9.095		0.236		151.72
EX2-09000*	**9.000**					9.060		9.345		0.236		151.72
EX5-09000*	**9.000**					9.100		9.630		0.374		186.69
EX2-09250*	**9.250**					9.310		9.595		0.236		157.49
EX2-09500*	**9.500**					9.560		9.845		0.236		157.49
EX2-09750*	**9.750**					9.810		10.095		0.236		163.25
EX2-10000*	**10.000**					10.060	+.013 -.000	10.345		0.236		206.41
EX2-10000HD*	**10.000**					10.080		10.480		0.332		206.41
EX5-10000*	**10.000**					10.100		10.630		0.374		254.01
EX2-10250	**10.250**					10.290		10.595		0.236		206.41
EX2-10500*	**10.500**					10.560		10.845		0.236		171.39
EX2-11000*	**11.000**					11.060		11.345		0.236		190.85
EX2-11500	**11.500**					11.560		10.845		0.236		190.85
EX5-15500*	**15.500**					15.600		16.130		0.374		643.97
EX5-20000*	**20.000**					20.100		20.944		0.551		833.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

BW/S - Rod wipers - Inch



Standard Material	Temperature Range
Brass/Nitrile	-40°F to +240°F (-40°C to +116°C)



BW/S-style metal scrapers are used to remove the toughest, most abrasive contaminants that may adhere to cylinder rods, including ice, adhesives, coatings and other potentially damaging materials. By using rubber energizing elements behind the dual-contact scrapers, the **BW/S-style** scrapers provide the best possible removal of stubborn contaminants.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d2	Tol.	D1	Tol.	h1	Tol.	
BW-00250S/5*	**0.250**	+.001 -.002	0.250	0.500	0.125	0.464	+.000 -.010	0.500	+.003 -.003	0.125	+.003 -.001	27.87
BW-00312S/5*	**0.312**		0.312	0.562	0.125	0.526		0.562		0.125		28.33
BW-00375S/5*	**0.375**		0.375	0.625	0.125	0.589		0.625		0.125		28.47
BW-00437S/5*	**0.437**		0.437	0.687	0.125	0.651		0.687		0.125		29.26
BW-00500S/5	**0.500**		0.500	0.750	0.125	0.714		0.750		0.125		29.85
BW-00562S/5*	**0.562**		0.562	0.812	0.125	0.776		0.812		0.125		29.85
BW-00625S/5*	**0.625**		0.625	0.875	0.125	0.839		0.875		0.125		29.98
BW-00687S/5*	**0.687**		0.687	0.937	0.125	0.901		0.937		0.125		30.19
BW-00750S/5*	**0.750**		0.750	1.000	0.125	0.964		1.000		0.125		30.29
BW-00750S/6	**0.750**		0.750	1.125	0.187	1.082		1.125		0.188		30.39
BW-00812S/5*	**0.812**		0.812	1.062	0.125	1.026		1.062		0.125		30.65
BW-00812S/6*	**0.812**		0.812	1.187	0.187	1.144		1.187		0.188		30.80
BW-00875S/5*	**0.875**		0.875	1.125	0.125	1.089		1.125		0.125		31.59
BW-00875S/6*	**0.875**		0.875	1.250	0.187	1.207		1.250		0.188		31.68
BW-00937S/5*	**0.937**		0.937	1.187	0.125	1.151		1.187		0.125		32.05
BW-00937S/6*	**0.937**		0.937	1.312	0.187	1.269		1.312		0.188		32.33
BW-01000S/5	**1.000**		1.000	1.250	0.125	1.214		1.250		0.125		33.15
BW-01000S/6	**1.000**		1.000	1.375	0.187	1.332		1.375		0.188		33.23
BW-01000S/6V	**1.000**		1.000	1.375	0.187	1.332		1.375		0.188		50.09
BW-01062S/6*	**1.062**		1.062	1.437	0.187	1.394		1.437		0.188		35.30
BW-01125S/5*	**1.125**		1.125	1.375	0.125	1.339		1.375		0.125		36.93
BW-01125S/6	**1.125**		1.125	1.500	0.187	1.457		1.500		0.188		37.36

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-01187S/6*	**1.187**	+.001 -.002	1.187	1.562	0.187	1.519	+.000 -.010	1.562	+.003 -.003	0.188	+.003 -.001	39.81
BW-01250S/5*	**1.250**		1.250	1.500	0.125	1.464		1.500		0.125		40.91
BW-01250S/6	**1.250**		1.250	1.625	0.187	1.582		1.625		0.188		41.47
BW-01312S/6*	**1.312**		1.312	1.687	0.187	1.644		1.687		0.188		42.69
BW-01375S/6	**1.375**		1.375	1.750	0.187	1.707		1.750		0.188		44.08
BW-01375S/6V	**1.375**		1.375	1.750	0.187	1.707		1.750		0.188		53.31
BW-01437S/6*	**1.437**		1.437	1.812	0.187	1.769		1.812		0.188		46.89
BW-01500S/6	**1.500**		1.500	1.875	0.187	1.832		1.875		0.188		49.79
BW-01562S/6*	**1.562**		1.562	1.937	0.187	1.894		1.937		0.188		50.99
BW-01625S/6*	**1.625**		1.625	2.000	0.187	1.957		2.000		0.188		53.85
BW-01687S/6*	**1.687**		1.687	2.062	0.187	2.019		2.062		0.188		57.45
BW-01750S/6	**1.750**		1.750	2.125	0.187	2.082		2.125		0.188		57.95
BW-01750S/6V	**1.750**		1.750	2.125	0.187	2.082		2.125		0.188		70.21
BW-01812S/6*	**1.812**		1.812	2.187	0.187	2.144		2.187		0.188		63.43
BW-01875S/6*	**1.875**		1.875	2.250	0.187	2.207		2.250		0.188		64.95
BW-01937S/6*	**1.937**		1.937	2.312	0.187	2.269		2.312		0.188		66.87
BW-02000S/6	**2.000**		2.000	2.375	0.187	2.332		2.375		0.188		67.60
BW-02000S/7	**2.000**		2.000	2.500	0.250	2.440		2.500		0.250		67.63
BW-02000S/7V	**2.000**		2.000	2.500	0.250	2.440		2.500		0.250		76.51
BW-02062S/6*	**2.062**		2.062	2.437	0.187	2.394		2.437		0.188		68.73
BW-02062S/7*	**2.062**		2.062	2.562	0.250	2.502		2.562		0.250		70.36
BW-02125S/6*	**2.125**		2.125	2.500	0.187	2.457		2.500		0.188		70.93
BW-02125S/7*	**2.125**		2.125	2.625	0.250	2.565		2.625		0.250		72.40
BW-02187S/6*	**2.187**		2.187	2.562	0.187	2.519		2.562		0.188		72.51
BW-02187S/7*	**2.187**		2.187	2.687	0.250	2.627		2.687		0.250		74.04
BW-02250S/6*	**2.250**		2.250	2.625	0.187	2.582		2.625		0.188		74.95
BW-02250S/7*	**2.250**		2.250	2.750	0.250	2.690		2.750		0.250		75.78
BW-02312S/6*	**2.312**		2.312	2.687	0.187	2.644		2.687		0.188		76.56
BW-02312S/7*	**2.312**		2.312	2.812	0.250	2.752		2.812		0.250		77.96
BW-02375S/6*	**2.375**		2.375	2.750	0.187	2.707		2.750		0.188		79.48
BW-02375S/7*	**2.375**		2.375	2.875	0.250	2.815		2.875		0.250		80.98
BW-02437S/6*	**2.437**		2.437	2.812	0.187	2.769		2.812		0.188		81.73
BW-02437S/7*	**2.437**		2.437	2.937	0.250	2.877		2.937		0.250		83.41
BW-02500S/6	**2.500**		2.500	2.875	0.187	2.832		2.875		0.188		83.60
BW-02500S/6V	**2.500**		2.500	2.875	0.187	2.832		2.875		0.188		93.24
BW-02500S/7	**2.500**		2.500	3.000	0.250	2.940		3.000		0.250		84.16
BW-02500S/7V	**2.500**		2.500	3.000	0.250	2.940		3.000		0.250		95.08
BW-02562S/6*	**2.562**		2.562	2.937	0.187	2.894		2.937		0.188		85.35
BW-02562S/7*	**2.562**		2.562	3.062	0.250	3.002		3.062		0.250		204.75
BW-02625S/6*	**2.625**		2.625	3.000	0.187	2.957		3.000		0.188		87.70
BW-02625S/7*	**2.625**		2.625	3.125	0.250	3.065		3.125		0.250		88.32
BW-02687S/6*	**2.687**		2.687	3.062	0.187	3.019		3.062		0.188		89.36
BW-02687S/7*	**2.687**		2.687	3.187	0.250	3.127		3.187		0.250		90.18
BW-02750S/6*	**2.750**		2.750	3.125	0.187	3.082		3.125		0.188		90.79
BW-02750S/7*	**2.750**		2.750	3.250	0.250	3.190		3.250		0.250		92.68
BW-02812S/6*	**2.812**		2.812	3.187	0.187	3.144		3.187		0.188		93.28

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

BW/S series - BRASS/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-02812S/7*	**2.812**	+.001 -.002	2.812	3.312	0.250	3.252	+.000 -.010	3.312	+.003 -.003	0.250	+.003 -.001	95.15
BW-02875S/6*	**2.875**		2.875	3.250	0.187	3.207		3.250		0.188		96.53
BW-02875S/7*	**2.875**		2.875	3.375	0.250	3.315		3.375		0.250		97.76
BW-02937S/6*	**2.937**		2.937	3.312	0.187	3.269		3.312		0.188		99.27
BW-02937S/7*	**2.937**		2.937	3.437	0.250	3.377		3.437		0.250		100.28
BW-03000S/6	**3.000**		3.000	3.375	0.187	3.332		3.375		0.188		101.52
BW-03000S/7	**3.000**		3.000	3.500	0.250	3.440		3.500		0.250		101.83
BW-03000S/7V	**3.000**		3.000	3.500	0.250	3.440		3.500		0.250		165.36
BW-03125S/7*	**3.125**		3.125	3.625	0.250	3.565		3.625		0.250		103.25
BW-03250S/7*	**3.250**		3.250	3.750	0.250	3.690		3.750		0.250		132.59
BW-03375S/7*	**3.375**		3.375	3.875	0.250	3.815		3.875		0.250		141.51
BW-03500S/6*	**3.500**		3.500	3.875	0.187	3.832		3.875		0.188		151.15
BW-03500S/7*	**3.500**		3.500	4.000	0.250	3.940		4.000		0.250		169.75
BW-03500S/7V	**3.500**		3.500	4.000	0.250	3.940		4.000		0.250		203.19
BW-03625S/7*	**3.625**		3.625	4.125	0.250	4.065		4.125		0.250		172.08
BW-03750S/7*	**3.750**		3.750	4.250	0.250	4.190		4.250		0.250		177.06
BW-03875S/7*	**3.875**		3.875	4.375	0.250	4.315		4.375		0.250		191.72
BW-04000S/6*	**4.000**		4.000	4.375	0.187	4.332		4.375		0.188		197.11
BW-04000S/7	**4.000**		4.000	4.500	0.250	4.440		4.500		0.250		207.04
BW-04125S/7*	**4.125**		4.125	4.625	0.250	4.565		4.625		0.250		215.60
BW-04250S/7*	**4.250**		4.250	4.750	0.250	4.690		4.750		0.250		228.24
BW-04250S/8*	**4.250**		4.250	5.000	0.375	4.910		5.000		0.375		623.37
BW-04375S/7*	**4.375**		4.375	4.875	0.250	4.815		4.875		0.250		262.72
BW-04500S/6*	**4.500**		4.500	4.875	0.187	4.832		4.875		0.188		289.50
BW-04500S/7	**4.500**		4.500	5.000	0.250	4.940		5.000		0.250		297.14
BW-04500S/8	**4.500**		4.500	5.250	0.375	5.160		5.250		0.375		301.72
BW-04625S/7*	**4.625**		4.625	5.125	0.250	5.065		5.125		0.250		331.62
BW-04625S/8*	**4.625**		4.625	5.375	0.375	5.285		5.375		0.375		337.02
BW-04750S/7*	**4.750**		4.750	5.250	0.250	5.190		5.250		0.250		366.11
BW-04750S/8*	**4.750**		4.750	5.500	0.375	5.410		5.500		0.375		372.23
BW-04875S/7*	**4.875**		4.875	5.375	0.250	5.315		5.375		0.250		400.52
BW-04875S/8*	**4.875**		4.875	5.625	0.375	5.535		5.625		0.375		406.64
BW-05000S/6*	**5.000**		5.000	5.375	0.187	5.322		5.375		0.188		568.29
BW-05000S/7	**5.000**		5.000	5.500	0.250	5.440		5.500		0.250		435.01
BW-05000S/8	**5.000**		5.000	5.750	0.375	5.660		5.750		0.375		516.32
BW-05125S/8*	**5.125**		5.125	5.875	0.375	5.785		5.875		0.375		460.25
BW-05250S/7*	**5.250**		5.250	5.750	0.250	5.690		5.750		0.250		470.22
BW-05250S/8*	**5.250**		5.250	6.000	0.375	5.910		6.000		0.375		477.86
BW-05375S/8*	**5.375**		5.375	6.125	0.375	6.035		6.125		0.375		495.54
BW-05500S/6*	**5.500**		5.500	5.875	0.187	5.832		5.875		0.188		497.79
BW-05500S/7	**5.500**		5.500	6.000	0.250	5.940		6.000		0.250		510.09
BW-05500S/8	**5.500**		5.500	6.250	0.375	6.160		6.250		0.375		513.15
BW-05625S/8*	**5.625**		5.625	6.375	0.375	6.285		6.375		0.375		530.75
BW-05750S/7*	**5.750**		5.750	6.250	0.250	6.190		6.250		0.250		540.73
BW-05750S/8*	**5.750**		5.750	6.500	0.375	6.410		6.500		0.375		548.36
BW-05875S/8*	**5.875**		5.875	6.625	0.375	6.535		6.625		0.375		565.97

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Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-06000S/6*	**6.000**	+.001 -.002	6.000	6.375	0.187	6.332	+.000 -.010	6.375	+.003 -.003	0.188	+.003 -.001	568.29
BW-06000S/7*	**6.000**		6.000	6.500	0.250	6.440		6.500		0.250		575.94
BW-06000S/8	**6.000**		6.000	6.750	0.375	6.660		6.750		0.375		583.57
BW-06000S/8V*	**6.000**		6.000	6.750	0.375	6.660		6.750		0.375		753.38
BW-06250S/7*	**6.250**		6.250	6.750	0.250	6.690		6.750		0.250		610.35
BW-06250S/8*	**6.250**		6.250	7.000	0.375	6.910		7.000		0.375		618.07
BW-06500S/6*	**6.500**		6.500	6.875	0.187	6.832		6.875		0.188		637.20
BW-06500S/7*	**6.500**		6.500	7.000	0.250	6.940		7.000		0.250		644.84
BW-06500S/8	**6.500**		6.500	7.250	0.375	7.160		7.250		0.375		731.17
BW-06750S/7*	**6.750**		6.750	7.250	0.250	7.190		7.250		0.250		679.33
BW-06750S/8*	**6.750**		6.750	7.500	0.375	7.410		7.500		0.375		686.96
BW-07000S/6*	**7.000**		7.000	7.375	0.187	7.332		7.375		0.188		706.10
BW-07000S/7*	**7.000**		7.000	7.500	0.250	7.440		7.500		0.250		713.81
BW-07000S/8	**7.000**		7.000	7.750	0.375	7.660		7.750		0.375		721.46
BW-07250S/7*	**7.250**		7.250	7.750	0.250	7.690		7.750		0.250		748.23
BW-07250S/8*	**7.250**		7.250	8.000	0.375	7.910		8.000		0.375		755.87
BW-07500S/7*	**7.500**		7.500	8.000	0.250	7.940		8.000		0.250		782.71
BW-07500S/8*	**7.500**		7.500	8.250	0.375	8.160		8.250		0.375		790.35
BW-07750S/7*	**7.750**		7.750	8.250	0.250	8.190		8.250		0.250		817.20
BW-07750S/8*	**7.750**		7.750	8.500	0.375	8.410		8.500		0.375		824.85
BW-08000S/7*	**8.000**		8.000	8.500	0.250	8.440		8.500		0.250		851.61
BW-08000S/8*	**8.000**		8.000	8.750	0.375	8.660		8.750		0.375		859.32
BW-08000S/9*	**8.000**		8.000	9.000	0.500	8.880		9.000		0.500		O/R
BW-08125S/9*	**8.125**		8.125	9.125	0.500	9.005		9.125		0.500		O/R
BW-08250S/7*	**8.250**		8.250	8.750	0.250	8.690		8.750		0.250		886.09
BW-08250S/8*	**8.250**		8.250	9.000	0.375	8.910		9.000		0.375		893.74
BW-08250S/9*	**8.250**		8.250	9.250	0.500	9.130		9.250		0.500		O/R
BW-08375S/9*	**8.375**		8.375	9.375	0.500	9.255		9.375		0.500		O/R
BW-08500S/7*	**8.500**		8.500	9.000	0.250	8.940		9.000		0.250		920.59
BW-08500S/8*	**8.500**		8.500	9.250	0.375	9.160		9.250		0.375		928.22
BW-08500S/9*	**8.500**		8.500	9.500	0.500	9.380		9.500		0.500		O/R
BW-08625S/9*	**8.625**		8.625	9.625	0.500	9.505		9.625		0.500		O/R
BW-08750S/7*	**8.750**		8.750	9.250	0.250	9.190		9.250		0.250		955.00
BW-08750S/8*	**8.750**		8.750	9.500	0.375	9.410		9.500		0.375		962.71
BW-08750S/9*	**8.750**		8.750	9.750	0.500	9.630		9.750		0.500		O/R
BW-08875S/9*	**8.875**		8.875	9.875	0.500	9.755		9.875		0.500		O/R
BW-09000S/7*	**9.000**		9.000	9.500	0.250	9.440		9.500		0.250		989.48
BW-09000S/8	**9.000**		9.000	9.750	0.375	9.660		9.750		0.375		1028.87
BW-09000S/9*	**9.000**		9.000	10.000	0.500	9.880		10.000		0.500		O/R
BW-09250S/8*	**9.250**		9.250	10.000	0.375	9.910		10.000		0.375		1031.61
BW-09250S/9*	**9.250**		9.250	10.250	0.500	10.130		10.250		0.500		O/R
BW-09500S/8*	**9.500**		9.500	10.250	0.375	10.160		10.250		0.375		1066.10
BW-09500S/9*	**9.500**		9.500	10.500	0.500	10.380		10.500		0.500		O/R
BW-09750S/8*	**9.500**		9.500	10.500	0.375	10.410		10.500		0.375		1100.52
BW-09750S/9*	**9.750**		9.750	10.750	0.500	10.630		10.750		0.500		1108.95
BW-10000S/8*	**10.000**		10.000	10.750	0.375	10.660		10.750		0.375		1135.00

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BW/S series - BRASS/NBR

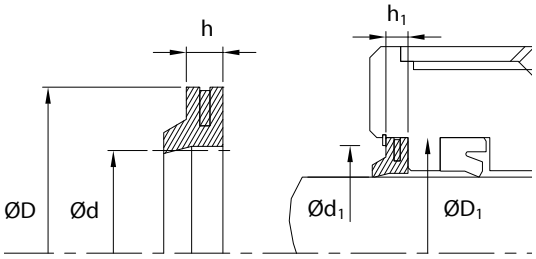
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-10000S/9*	**10.000**	+.001 -.002	10.000	11.000	0.500	10.880	+.000 -.010	11.000	+.003 -.003	0.500	+.003 -.001	O/R
BW-10250S/9*	**10.250**		10.250	11.250	0.500	11.130		11.250		0.500		O/R
BW-10500S/8*	**10.500**		10.500	11.250	0.375	11.160		11.250		0.375		1203.91
BW-10500S/9*	**10.500**		10.500	11.500	0.500	11.380		11.500		0.500		O/R
BW-10750S/9*	**10.750**		10.750	11.750	0.500	11.630		11.750		0.500		O/R
BW-11000S/8*	**11.000**		11.000	11.750	0.375	11.660		11.750		0.375		1272.87
BW-11000S/9*	**11.000**		11.000	12.000	0.500	11.880		12.000		0.500		1281.31
BW-11250S/9*	**11.250**		11.250	12.250	0.500	12.130		12.250		0.500		O/R
BW-11500S/8*	**11.500**		11.500	12.250	0.375	12.160		12.250		0.375		O/R
BW-11500S/9*	**11.500**		11.500	12.500	0.500	12.380		12.500		0.500		O/R
BW-11750S/9*	**11.750**		11.750	12.750	0.500	12.630		12.750		0.500		O/R
BW-12000S/8*	**12.000**		12.000	12.750	0.375	12.660		12.750		0.375		O/R
BW-12000S/9*	**12.000**		12.000	13.000	0.500	12.880		13.000		0.500		O/R
BW-12250S/9*	**12.250**		12.250	13.250	0.500	13.130		13.250		0.500		O/R
BW-12500S/9*	**12.500**		12.500	13.500	0.500	13.380		13.500		0.500		O/R
BW-12750S/9*	**12.750**		12.750	13.750	0.500	13.630		13.750		0.500		O/R
BW-13000S/9*	**13.000**		13.000	14.000	0.500	13.880		14.000		0.500		O/R
BW-13500S/9*	**13.500**		13.500	14.500	0.500	14.380		14.500		0.500		O/R
BW-14000S/9*	**14.000**		14.000	15.000	0.500	14.880		15.000		0.500		O/R
BW-16000S/9*	**16.000**		16.000	17.000	0.500	16.880		17.000		0.500		O/R
BW-18000S/9*	**18.000**		18.000	19.000	0.500	18.880		19.000		0.500		O/R
BW-20000S/9*	**20.000**		20.000	21.000	0.500	20.880		21.000		0.500		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material
Brass



FWR-style scrapers conform to MS28776-M2 sizes and are manufacured in brass. The scrapers are suitable for extreme environments with agressive contaminants. The unique spring loaded construction and ductile material result in close rod contact even when coping with rod rod ovality and helix grinding patterns.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
FWR-01*	**0.500**	+.000 -.002	0.500	0.766	0.094	0.647	+.005 -.000	0.760	+.004 -.000	0.107	+.003 -.003	23.11
FWR-02*	**0.562**		0.562	0.829	0.094	0.710		0.823		0.107		24.44
FWR-03*	**0.625**		0.625	0.891	0.094	0.772		0.885		0.107		25.08
FWR-04*	**0.687**		0.687	0.954	0.094	0.834		0.948		0.107		25.13
FWR-05*	**0.750**		0.750	1.016	0.094	0.897		1.010		0.107		25.19
FWR-06*	**0.812**		0.812	1.090	0.094	0.960		1.084		0.107		25.70
FWR-07*	**0.875**		0.875	1.153	0.094	1.023		1.147		0.107		26.26
FWR-08*	**0.937**		0.937	1.215	0.094	1.085		1.209		0.107		27.44
FWR-09	**1.000**		1.000	1.278	0.094	1.148		1.272		0.107		27.59
FWR-10*	**1.062**		1.062	1.340	0.094	1.210		1.334		0.107		27.92
FWR-11	**1.125**		1.125	1.403	0.094	1.273		1.397		0.107		29.21
FWR-12*	**1.187**		1.187	1.465	0.094	1.335		1.459		0.107		30.04
FWR-13*	**1.250**		1.250	1.528	0.094	1.398		1.522		0.107		30.80
FWR-14*	**1.312**		1.312	1.622	0.094	1.480		1.614		0.107		34.15
FWR-15	**1.375**		1.375	1.685	0.094	1.542		1.677		0.107		35.88
FWR-16*	**1.437**		1.437	1.747	0.094	1.605		1.739		0.107		36.61
FWR-17	**1.500**		1.500	1.810	0.094	1.668		1.802		0.107		36.63
FWR-18*	**1.625**		1.625	1.935	0.094	1.793		1.927		0.107		36.89
FWR-19	**1.750**		1.750	2.060	0.094	1.918		2.052		0.107		37.04
FWR-20*	**1.875**		1.875	2.185	0.094	2.043		2.177		0.107		40.18
FWR-21*	**2.000**		2.000	2.310	0.094	2.178		2.302		0.107		41.78
FWR-22*	**2.125**		2.125	2.435	0.094	2.303		2.427		0.107		42.22

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

FWR series - BRASS

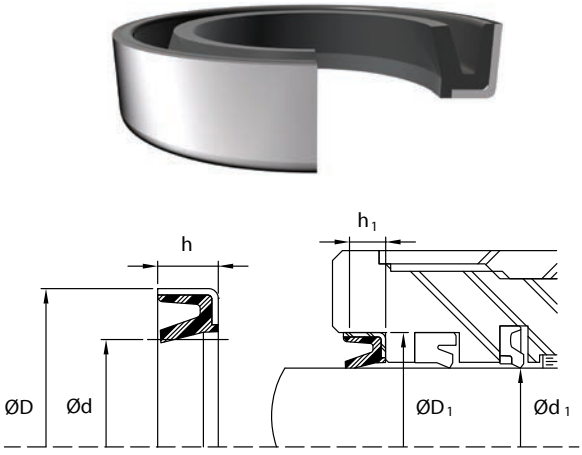
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	h1	Tol.	$
FWR-23*	**2.250**	+.000 -.002	2.250	2.560	0.094	2.428	+.005 -.000	2.552	+.004 -.000	0.107	+.003 -.003	42.56
FWR-24*	**2.375**		2.375	2.685	0.094	2.553		2.677		0.107		48.62
FWR-25	**2.500**		2.500	2.810	0.094	2.678		2.802		0.107		51.62
FWR-26*	**2.625**		2.625	2.999	0.109	2.834		2.989		0.122		56.60
FWR-27	**2.750**		2.750	3.124	0.109	2.959		3.114		0.122		57.63
FWR-28*	**2.875**		2.875	3.249	0.109	3.084		3.239		0.122		61.36
FWR-29	**3.000**		3.000	3.374	0.109	3.209		3.364		0.122		62.97
FWR-30*	**3.125**		3.125	3.499	0.109	3.334		3.489		0.122		65.95
FWR-31	**3.250**		3.250	3.624	0.109	3.459		3.614		0.122		67.98
FWR-32*	**3.375**		3.375	3.749	0.109	3.584		3.739		0.122		70.10
FWR-33*	**3.500**		3.500	3.874	0.109	3.709		3.864		0.122		72.23
FWR-34*	**3.625**		3.625	3.999	0.109	3.834		3.989		0.122		75.84
FWR-35*	**3.750**		3.750	4.124	0.109	3.959		4.114		0.122		82.32
FWR-36*	**3.875**		3.875	4.249	0.109	4.084		4.239		0.122		89.79
FWR-37*	**4.000**		4.000	4.439	0.125	4.240		4.427		0.138		93.80
FWR-38*	**4.125**		4.125	4.564	0.125	4.365		4.552		0.138		93.95
FWR-39	**4.250**		4.250	4.689	0.125	4.490		4.677		0.138		95.55
FWR-40*	**4.375**	+.000 -.003	4.375	4.814	0.125	4.615		4.805		0.138		97.15
FWR-41*	**4.500**		4.500	4.939	0.125	4.740		4.927		0.138		97.71
FWR-42*	**4.625**		4.625	5.065	0.125	4.865		5.052		0.138		103.66
FWR-43*	**4.750**		4.750	5.189	0.125	4.990		5.177		0.138		106.21
FWR-44*	**4.875**		4.875	5.314	0.125	5.115		5.302		0.138		109.25
FWR-45	**5.000**		5.000	5.439	0.125	5.240		5.427		0.138		110.21
FWR-46*	**5.125**		5.125	5.564	0.125	5.365		5.552		0.138		112.59
FWR-47*	**5.250**		5.250	5.689	0.125	5.490		5.677		0.138		115.14
FWR-48*	**5.375**		5.375	5.814	0.125	5.615		5.802		0.138		118.21
FWR-49	**5.500**		5.500	5.939	0.125	5.740		5.927		0.138		120.74
FWR-50*	**5.625**		5.625	6.077	0.141	5.897		6.052		0.154		131.44
FWR-51	**5.750**		5.750	6.254	0.141	6.022		6.239		0.154		133.50
FWR-52*	**5.875**		5.875	6.379	0.141	6.146		6.364		0.154		135.03
FWR-53	**6.000**		6.000	6.504	0.141	6.272		6.489		0.154		136.05
FWR-54*	**6.250**		6.250	6.754	0.141	6.522		6.739		0.154		140.62
FWR-55*	**6.500**		6.500	7.004	0.141	6.772		6.989		0.154		142.68
FWR-56*	**6.750**		6.750	7.254	0.141	7.022		7.239		0.154		146.74
FWR-57	**7.000**		7.000	7.504	0.141	7.272		7.489		0.154		228.11
FWR-58*	**7.250**		7.250	7.754	0.141	7.522		7.739		0.154		155.90
FWR-59*	**7.500**		7.500	8.004	0.141	7.772		7.989		0.154		161.53
FWR-60*	**7.750**		7.750	8.254	0.141	8.022		8.239		0.154		173.23
FWR-61	**8.000**		8.000	8.504	0.141	8.272		8.489		0.154		182.91
FWR-62*	**8.500**		8.500	9.004	0.141	8.772		8.989		0.154		197.17
FWR-63	**9.000**		9.000	9.504	0.141	9.272		9.489		0.154		210.44
FWR-64*	**9.500**		9.500	10.004	0.141	9.772		9.989		0.154		215.53
FWR-65	**10.000**		10.000	10.504	0.141	10.272		10.489		0.154		236.43
FWR-66*	**10.500**		10.500	11.004	0.141	10.772		10.989		0.154		266.49
FWR-67*	**11.000**		11.000	11.504	0.141	11.272		11.489		0.154		281.79
FWR-68*	**11.500**		11.500	12.009	0.156	11.772		11.989		0.169		305.70

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FWR series - BRASS

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions						$
	Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
FWR-69	**12.000**	12.000	12.509	0.156	12.272	+.005 -.000	12.489	+.004 -.000	0.169	+.003 -.003	324.05
FWR-70*	**12.500**	12.500	13.009	0.156	12.772	↓	12.989	↓	0.169	↓	351.05
FWR-71*	**13.000**	13.000	13.509	0.156	13.272	↓	13.489	↓	0.169	↓	368.89

J - Rod wipers - Inch



Standard Materials	Temperature Range	Surface Speed
STD AU 92A/Steel	-40°F to +212°F (-40°C to +100°C)	< 1.6 ft/s (0.5 m/s)
9250 AU 90A/Steel	-65°F to +300°F (-54°C to +149°C)	
862 AU 93A/Steel	-40°F to +212°F (-40°C to +100°C)	
4615 AU 92A/Steel	-65°F to +200°F (-54°C to +93°C)	
1023 AU 93A/Steel	-40°F to +230°F (-40°C to +110°C)	

J-style rod wipers are molded from urethane and encased in a heavy-duty metal case. The press-fit installation guards against O.D. contamination and requires simple counter-bore machining. The wiping lip gives them exceptional abrasion resistance and outstanding endurance under difficult operating conditions. They are highly effective in removing dust, mud and moisture from the rod.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Tolerance Guide					
d1	Tol.	D1	Tol.	H1	Tol.
d1<1.000"	+.000/-.002)	D1= All Sizes	(+.001/-.001)	H1= All Sizes	(+.015/-.000)
d1=1.000" < 3.000"					
d1=3.000" < 7.000"					
d1=7.000" & Up					

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	H1	STD	9250	862	4615	1023
J05007500125	**0.500**	0.500	0.750	0.125	0.750	0.125	---	---	---	---	---
J05001000250	**0.500**	0.500	1.000	0.250	1.000	0.250	---	9.32	9.32*	9.32*	9.32*
J06251125312	**0.625**	0.625	1.125	0.312	1.125	0.312	---	---	---	---	---
J07501000125	**0.750**	0.750	1.000	0.125	1.000	0.125	---	---	---	---	---

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J series - AU/STEEL

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	862	4615	1023
J07501250250	**0.750**	0.750	1.250	0.250	1.250	0.250	5.66*	7.08	---	---	---
J07501250312	**0.750**	0.750	1.250	0.312	1.250	0.312	---	11.01	11.01*	11.01*	11.01*
J08751125156	**0.875**	0.875	1.125	0.156	1.125	0.156	---	---	---	---	---
J08751250187	**0.875**	0.875	1.250	0.187	1.250	0.187	---	---	---	---	---
J08751375312	**0.875**	0.875	1.375	0.312	1.375	0.312	10.38*	12.97	12.97*	12.97*	12.97*
J10001250125	**1.000**	1.000	1.250	0.125	1.250	0.125	---	---	---	---	---
J10001250312	**1.000**	1.000	1.250	0.312	1.250	0.312	---	---	---	---	---
J10001375187	**1.000**	1.000	1.375	0.187	1.375	0.187	---	---	---	---	---
J10001500312	**1.000**	1.000	1.500	0.312	1.500	0.312	13.34	16.67	16.67	16.67	16.67*
J11251500187	**1.125**	1.125	1.500	0.187	1.500	0.187	---	---	---	---	---
J11251625312	**1.125**	1.125	1.625	0.312	1.625	0.312	14.34*	17.93	17.93*	17.93*	17.93*
J11871625218	**1.187**	1.187	1.625	0.218	1.625	0.218	---	---	---	---	---
J11871625250	**1.187**	1.187	1.625	0.250	1.625	0.250	---	---	---	---	---
J12501625125	**1.250**	1.250	1.625	0.125	1.625	0.125	---	---	---	---	---
J12501625187	**1.250**	1.250	1.625	0.187	1.625	0.187	---	---	---	---	---
J12501750250	**1.250**	1.250	1.750	0.250	1.750	0.250	19.96*	24.95	24.95*	---	---
J12501750312	**1.250**	1.250	1.750	0.312	1.750	0.312	17.26	21.58	21.58	21.58*	21.58*
J12502062375	**1.250**	1.250	2.062	0.375	2.062	0.375	---	---	---	---	---
J13751750187	**1.375**	1.375	1.750	0.187	1.750	0.187	---	---	---	---	---
J13751875312	**1.375**	1.375	1.875	0.312	1.875	0.312	17.46	21.83	21.83	21.83*	21.83*
J15001875125	**1.500**	1.500	1.875	0.125	1.875	0.125	---	---	---	---	---
J15001875187	**1.500**	1.500	1.875	0.187	1.875	0.187	---	---	---	---	---
J15001875250	**1.500**	1.500	1.875	0.250	1.875	0.250	17.50*	21.87	---	---	---
J15002000250	**1.500**	1.500	2.000	0.250	2.000	0.250	18.10*	22.62	22.62*	---	---
J15002000312	**1.500**	1.500	2.000	0.312	2.000	0.312	17.64	22.05	22.05	22.05*	22.05*
J15002125250	**1.500**	1.500	2.125	0.250	2.125	0.250	---	---	---	---	---
J15002125312	**1.500**	1.500	2.125	0.312	2.125	0.312	---	---	---	---	---
J15002250250	**1.500**	1.500	2.250	0.250	2.250	0.250	---	---	---	---	---
J15002250312	**1.500**	1.500	2.250	0.312	2.250	0.312	---	---	---	---	---
J15002250375	**1.500**	1.500	2.250	0.375	2.250	0.375	18.38*	22.98	22.98*	---	---
J15621875156	**1.562**	1.562	1.875	0.156	1.875	0.156	---	---	---	---	---
J16252000187	**1.625**	1.625	2.000	0.187	2.000	0.187	---	---	---	---	---
J16252125250	**1.625**	1.625	2.125	0.250	2.125	0.250	---	---	---	---	---
J16252125312	**1.625**	1.625	2.125	0.312	2.125	0.312	---	23.30	23.30*	23.30*	23.30*
J17502125125	**1.750**	1.750	2.125	0.125	2.125	0.125	---	---	---	---	---
J17502250187	**1.750**	1.750	2.250	0.187	2.250	0.187	---	---	---	---	---
J17502250250	**1.750**	1.750	2.250	0.250	2.250	0.250	19.06	23.82	23.82*	---	---
J17502250312	**1.750**	1.750	2.250	0.312	2.250	0.312	19.06	23.82	23.82*	23.82*	23.82*
J17502375250	**1.750**	1.750	2.375	0.250	2.375	0.250	---	---	---	---	---
J17502437375	**1.750**	1.750	2.437	0.375	2.437	0.375	19.40*	24.25	24.25*	---	---
J17502500375	**1.750**	1.750	2.500	0.375	2.500	0.375	---	---	---	---	---
J17502750375	**1.750**	1.750	2.750	0.375	2.750	0.375	---	---	---	---	---
J18752375312	**1.875**	1.875	2.375	0.312	2.375	0.312	---	---	---	---	---
J18752562375	**1.875**	1.875	2.562	0.375	2.562	0.375	---	---	---	---	---
J20002375187	**2.000**	2.000	2.375	0.187	2.375	0.187	---	---	---	---	---
J20002375250	**2.000**	2.000	2.375	0.250	2.375	0.250	---	---	---	---	---

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Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	862	4615	1023
J20002500187	**2.000**	2.000	2.500	0.187	2.500	0.187	---	---	---	---	---
J20002500250	**2.000**	2.000	2.500	0.250	2.500	0.250	21.96	27.45	27.45*	---	---
J20002500312	**2.000**	2.000	2.500	0.312	2.500	0.312	19.77	24.71	24.71*	24.71*	24.71*
J20002625250	**2.000**	2.000	2.625	0.250	2.625	0.250	---	---	---	---	---
J20002687375	**2.000**	2.000	2.687	0.375	2.687	0.375	---	---	---	---	---
J20002750250	**2.000**	2.000	2.750	0.250	2.750	0.250	---	---	---	---	---
J20002750375	**2.000**	2.000	2.750	0.375	2.750	0.375	---	---	---	---	---
J20002875437	**2.000**	2.000	2.875	0.437	2.875	0.437	---	---	---	---	---
J21252500125	**2.125**	2.125	2.500	0.125	2.500	0.125	---	---	---	---	---
J21252625250	**2.125**	2.125	2.625	0.250	2.625	0.250	---	---	---	---	---
J21252625312	**2.125**	2.125	2.625	0.312	2.625	0.312	27.50*	34.37*	34.37*	34.37*	34.37*
J21252750312	**2.125**	2.125	2.750	0.312	2.750	0.312	---	---	---	---	---
J21252875375	**2.125**	2.125	2.875	0.375	2.875	0.375	---	---	---	---	---
J21252875437	**2.125**	2.125	2.875	0.437	2.875	0.437	---	---	---	---	---
J21872687375	**2.187**	2.187	2.687	0.375	2.687	0.375	---	32.41	32.41*	---	---
J22502750187	**2.250**	2.250	2.750	0.187	2.750	0.187	---	---	---	---	---
J22502750250	**2.250**	2.250	2.750	0.250	2.750	0.250	21.16	26.45	26.45*	---	---
J22502750312	**2.250**	2.250	2.750	0.312	2.750	0.312	21.16	26.45	26.45*	26.45	26.45*
J22502875250	**2.250**	2.250	2.875	0.250	2.875	0.250	---	---	---	---	---
J22503000250	**2.250**	2.250	3.000	0.250	3.000	0.250	---	---	---	---	---
J22503000312	**2.250**	2.250	3.000	0.312	3.000	0.312	---	---	---	---	---
J22503000375	**2.250**	2.250	3.000	0.375	3.000	0.375	22.14*	27.67	27.67*	---	27.67*
J22503250500	**2.250**	2.250	3.250	0.500	3.250	0.500	---	---	---	---	---
J23123125375	**2.312**	2.312	3.125	0.375	3.125	0.375	---	28.74*	---	---	---
J23752875250	**2.375**	2.375	2.875	0.250	2.875	0.250	---	---	---	---	---
J23752875312	**2.375**	2.375	2.875	0.312	2.875	0.312	---	---	---	---	---
J23753125375	**2.375**	2.375	3.125	0.375	3.125	0.375	---	---	---	---	---
J25002875187	**2.500**	2.500	2.875	0.187	2.875	0.187	---	---	---	---	---
J25003000187	**2.500**	2.500	3.000	0.187	3.000	0.187	---	---	---	---	---
J25003000250	**2.500**	2.500	3.000	0.250	3.000	0.250	---	---	---	---	---
J25003000312	**2.500**	2.500	3.000	0.312	3.000	0.312	23.95	29.94	29.94*	29.94*	29.94
J25003125250	**2.500**	2.500	3.125	0.250	3.125	0.250	---	---	---	---	---
J25003187375	**2.500**	2.500	3.187	0.375	3.187	0.375	25.70	32.13*	32.13*	---	32.13*
J25003250250	**2.500**	2.500	3.250	0.250	3.250	0.250	---	---	---	---	---
J25003250312	**2.500**	2.500	3.250	0.312	3.250	0.312	---	---	---	---	---
J25003250375	**2.500**	2.500	3.250	0.375	3.250	0.375	24.35*	30.44	30.44*	---	---
J26253125250	**2.625**	2.625	3.125	0.250	3.125	0.250	24.35*	30.44	30.44*	---	---
J26253125312	**2.625**	2.625	3.125	0.312	3.125	0.312	---	34.75	34.75*	34.75*	34.75*
J26253250375	**2.625**	2.625	3.250	0.375	3.250	0.375	---	---	---	---	---
J26253375375	**2.625**	2.625	3.375	0.375	3.375	0.375	---	---	---	---	---
J27503125187	**2.750**	2.750	3.125	0.187	3.125	0.187	---	---	---	---	---
J27503250187	**2.750**	2.750	3.250	0.187	3.250	0.187	---	34.75	---	---	---
J27503250312	**2.750**	2.750	3.250	0.312	3.250	0.312	27.12	33.90	33.90*	33.90*	33.90*
J27503500250	**2.750**	2.750	3.500	0.250	3.500	0.250	---	28.80	28.80*	---	---
J27503500375	**2.750**	2.750	3.500	0.375	3.500	0.375	---	---	---	---	---
J27503500500	**2.750**	2.750	3.500	0.500	3.500	0.500	---	44.45	44.45*	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

J series - AU/STEEL

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	862	4615	1023
J27503750500	**2.750**	2.750	3.750	0.500	3.750	0.500	29.54*	36.92	36.92*	---	---
J28753375312	**2.875**	2.875	3.375	0.312	3.375	0.312	---	35.74	---	35.74*	---
J28753500250	**2.875**	2.875	3.500	0.250	3.500	0.250	---	---	---	---	---
J30003375187	**3.000**	3.000	3.375	0.187	3.375	0.187	---	---	---	---	---
J30003500312	**3.000**	3.000	3.500	0.312	3.500	0.312	27.90	34.87	34.87	34.87	34.87
J30003750250	**3.000**	3.000	3.750	0.250	3.750	0.250	27.90*	34.87	34.87*	---	---
J30003750312	**3.000**	3.000	3.750	0.312	3.750	0.312	---	---	---	---	---
J30003750375	**3.000**	3.000	3.750	0.375	3.750	0.375	---	---	---	---	---
J30003750500	**3.000**	3.000	3.750	0.500	3.750	0.500	---	---	---	---	---
J30004000500	**3.000**	3.000	4.000	0.500	4.000	0.500	32.37*	40.46	40.46*	---	---
J31253625187	**3.125**	3.125	3.625	0.187	3.625	0.187	---	---	---	---	---
J31253750312	**3.125**	3.125	3.750	0.312	3.750	0.312	---	---	---	---	---
J31253750375	**3.125**	3.125	3.750	0.375	3.750	0.375	---	---	---	---	---
J32503750312	**3.250**	3.250	3.750	0.312	3.750	0.312	---	---	---	---	---
J32503750375	**3.250**	3.250	3.750	0.375	3.750	0.375	---	---	---	---	---
J32503875312	**3.250**	3.250	3.875	0.312	3.875	0.312	26.99	33.74	33.74*	33.74*	33.74
J32504000250	**3.250**	3.250	4.000	0.250	4.000	0.250	30.30*	37.87	---	---	---
J32504250500	**3.250**	3.250	4.250	0.500	4.250	0.500	33.06*	41.33	41.33*	---	---
J33753750375	**3.375**	3.375	3.750	0.375	3.750	0.375	---	---	---	---	---
J33754000312	**3.375**	3.375	4.000	0.312	4.000	0.312	---	---	---	---	---
J33754375375	**3.375**	3.375	4.375	0.375	4.375	0.375	---	---	---	---	---
J35003750312	**3.500**	3.500	3.750	0.312	3.750	0.312	---	---	---	---	---
J35004000312	**3.500**	3.500	4.000	0.312	4.000	0.312	27.12	33.90	33.90	---	---
J35004000375	**3.500**	3.500	4.000	0.375	4.000	0.375	---	---	---	---	---
J35004125250	**3.500**	3.500	4.125	0.250	4.125	0.250	---	---	---	---	---
J35004125312	**3.500**	3.500	4.125	0.312	4.125	0.312	37.22	46.52	46.52*	46.52*	46.52*
J35004250250	**3.500**	3.500	4.250	0.250	4.250	0.250	37.90	47.38	47.38*	---	---
J35004250312	**3.500**	3.500	4.250	0.312	4.250	0.312	---	---	---	---	---
J35004250375	**3.500**	3.500	4.250	0.375	4.250	0.375	---	---	---	---	---
J35004500500	**3.500**	3.500	4.500	0.500	4.500	0.500	38.54*	48.17	48.17*	---	---
J36254250312	**3.625**	3.625	4.250	0.312	4.250	0.312	---	---	---	---	---
J36254500500	**3.625**	3.625	4.500	0.500	4.500	0.500	---	---	---	---	---
J37504250187	**3.750**	3.750	4.250	0.187	4.250	0.187	---	50.77*	---	---	---
J37504250312	**3.750**	3.750	4.250	0.312	4.250	0.312	---	54.45	54.45	---	---
J37504375312	**3.750**	3.750	4.375	0.312	4.375	0.312	---	---	---	---	---
J37504500312	**3.750**	3.750	4.500	0.312	4.500	0.312	35.14*	43.92	43.92*	---	---
J37504750500	**3.750**	3.750	4.750	0.500	4.750	0.500	33.00*	41.25	41.25*	---	---
J40004500250	**4.000**	4.000	4.500	0.250	4.500	0.250	---	---	---	---	---
J40004500312	**4.000**	4.000	4.500	0.312	4.500	0.312	---	---	---	---	---
J40004625187	**4.000**	4.000	4.625	0.187	4.625	0.187	---	50.77*	---	---	---
J40004625312	**4.000**	4.000	4.625	0.312	4.625	0.312	52.41*	65.51	65.51*	65.51	65.51*
J40004750312	**4.000**	4.000	4.750	0.312	4.750	0.312	53.86*	67.32	67.32*	---	---
J40005000500	**4.000**	4.000	5.000	0.500	5.000	0.500	42.34*	52.92	52.92*	---	---
J41254750312	**4.125**	4.125	4.750	0.312	4.750	0.312	---	---	---	---	---
J42504750187	**4.250**	4.250	4.750	0.187	4.750	0.187	---	---	---	---	---
J42504750312	**4.250**	4.250	4.750	0.312	4.750	0.312	---	---	---	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	862	4615	1023
J42504875312	**4.250**	4.250	4.875	0.312	4.875	0.312	---	54.83*	54.83*	54.83	54.83*
J42505000500	**4.250**	4.250	5.000	0.500	5.000	0.500	---	---	---	---	---
J42505250500	**4.250**	4.250	5.250	0.500	5.250	0.500	54.30	67.87	67.87*	---	---
J43755000312	**4.375**	4.375	5.000	0.312	5.000	0.312	64.32*	80.40	80.40*	---	---
J43755000500	**4.375**	4.375	5.000	0.500	5.000	0.500	---	---	---	---	---
J43755375375	**4.375**	4.375	5.375	0.375	5.375	0.375	---	---	---	---	---
J45005000250	**4.500**	4.500	5.000	0.250	5.000	0.250	---	---	---	---	---
J45005125312	**4.500**	4.500	5.125	0.312	5.125	0.312	72.62	90.77*	90.77*	90.77*	90.77*
J45005250312	**4.500**	4.500	5.250	0.312	5.250	0.312	43.50	54.37	54.37*	---	---
J45005500312	**4.500**	4.500	5.500	0.312	5.500	0.312	---	43.51	---	---	---
J45005500500	**4.500**	4.500	5.500	0.500	5.500	0.500	72.62*	90.77	90.77*	---	---
J47505375312	**4.750**	4.750	5.375	0.312	5.375	0.312	57.81*	72.26	72.26*	72.26*	---
J47505750375	**4.750**	4.750	5.750	0.375	5.750	0.375	---	---	---	---	---
J47505750500	**4.750**	4.750	5.750	0.500	5.750	0.500	59.22*	74.03	74.03*	---	---
J50005625312	**5.000**	5.000	5.625	0.312	5.625	0.312	---	69.14	69.14*	69.14	69.14*
J50005750312	**5.000**	5.000	5.750	0.312	5.750	0.312	57.81	72.26	72.26*	---	---
J50006000500	**5.000**	5.000	6.000	0.500	6.000	0.500	---	98.26	98.26*	---	---
J52505750312	**5.250**	5.250	5.750	0.312	5.750	0.312	---	---	---	---	---
J52505875312	**5.250**	5.250	5.875	0.312	5.875	0.312	---	---	---	---	---
J52506000312	**5.250**	5.250	6.000	0.312	6.000	0.312	83.58*	104.47	104.47*	---	---
J55006125312	**5.500**	5.500	6.125	0.312	6.125	0.312	---	---	---	---	---
J55006125375	**5.500**	5.500	6.125	0.375	6.125	0.375	63.15	78.94*	78.94*	78.94*	78.94*
J55006250312	**5.500**	5.500	6.250	0.312	6.250	0.312	---	---	---	---	---
J55006250375	**5.500**	5.500	6.250	0.375	6.250	0.375	---	---	---	---	---
J57506375375	**5.750**	5.750	6.375	0.375	6.375	0.375	---	---	---	---	---
J57506750500	**5.750**	5.750	6.750	0.500	6.750	0.500	---	---	---	---	---
J60006625375	**6.000**	6.000	6.625	0.375	6.625	0.375	---	105.07	105.07*	105.07*	105.07*
J60006750375	**6.000**	6.000	6.750	0.375	6.750	0.375	---	---	---	---	---
J60007000500	**6.000**	6.000	7.000	0.500	7.000	0.500	---	133.67	133.67*	---	---
J62506750312	**6.250**	6.250	6.750	0.312	6.750	0.312	---	157.09*	157.09*	---	---
J65007125312	**6.500**	6.500	7.125	0.312	7.125	0.312	---	---	---	---	---
J65007250312	**6.500**	6.500	7.250	0.312	7.250	0.312	---	131.32	131.32*	---	---
J65007500625	**6.500**	6.500	7.500	0.625	7.500	0.625	---	103.28	103.28*	---	---
J67507250312	**6.750**	6.750	7.250	0.312	7.250	0.312	---	131.32*	131.32*	---	---
J67507375312	**6.750**	6.750	7.375	0.312	7.375	0.312	---	---	---	---	---
J67507375375	**6.750**	6.750	7.375	0.375	7.375	0.375	---	---	---	---	---
J67507750500	**6.750**	6.750	7.750	0.500	7.750	0.500	---	100.43	100.43*	---	---
J70007750312	**7.000**	7.000	7.750	0.312	7.750	0.312	---	---	---	---	---
J70007750375	**7.000**	7.000	7.750	0.375	7.750	0.375	---	---	---	---	---
J70007875312	**7.000**	7.000	7.875	0.312	7.875	0.312	---	---	---	---	---
J70008000500	**7.000**	7.000	8.000	0.500	8.000	0.500	---	138.71	138.71*	---	---
J72508000312	**7.250**	7.250	8.000	0.312	8.000	0.312	---	---	---	---	---
J72508250500	**7.250**	7.250	8.250	0.500	8.250	0.500	---	141.90*	---	---	---
J75008250375	**7.500**	7.500	8.250	0.375	8.250	0.375	---	---	---	---	---
J80008750312	**8.000**	8.000	8.750	0.312	8.750	0.312	---	---	---	---	---
J80008750375	**8.000**	8.000	8.750	0.375	8.750	0.375	---	---	---	---	---

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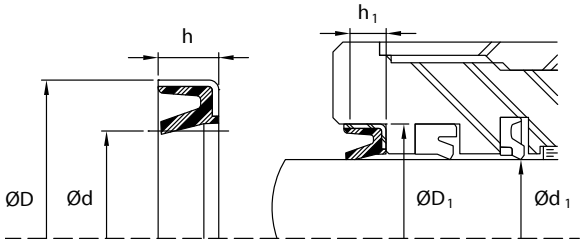
J series - AU/STEEL

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	862	4615	1023
J81258625312	**8.125**	8.125	8.625	0.312	8.625	0.312	---	121.82*	121.82*	---	---
J85009125375	**8.500**	8.500	9.125	0.375	9.125	0.375	---	---	---	---	---
J87509750550	**8.750**	8.750	9.750	0.550	9.750	0.550	---	---	---	---	---
J90009750500	**9.000**	9.000	9.750	0.500	9.750	0.500	---	---	---	---	---
J90009750550	**9.000**	9.000	9.750	0.550	9.750	0.550	---	194.49*	---	---	---
J90009750562	**9.000**	9.000	9.750	0.562	9.750	0.562	---	---	---	---	---
J90009875312	**9.000**	9.000	9.875	0.312	9.875	0.312	---	---	---	---	---
J975010250312	**9.750**	9.750	10.250	0.312	10.250	0.312	---	245.75*	---	---	---
J1000011000500	**10.000**	10.000	11.000	0.500	11.000	0.500	---	---	---	---	---
J1100012000550	**11.000**	11.000	12.000	0.550	12.000	0.550	---	189.66	---	---	---
J1250013500550	**12.500**	12.500	13.500	0.550	13.500	0.550	---	198.07	---	---	---
J1350014500550	**13.500**	13.500	14.500	0.550	14.500	0.550	---	203.32	---	---	---

J/N - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Nitrile/Steel	-40°F to +250°F (-40°C to +121°C)	<1.6 ft/s (0.5 m/s)



A more economical version of the J-Series, the **J/N-style** combines the durability of the metal case and the simple groove machining dimensions with a nitrile (NBR) wiping lip. It is typically supplied in more compact dimensions than standard urethane metal clad wipers.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$
	d1	Tol.	d	D	h	D1	Tol.	h1	Tol.	
J01870500125/N*	**0.187**	+.003 -.003	0.187	0.500	0.125	0.500	+.001 -.001	0.125	+.015 -.000	3.33
J02500500125/N*	**0.250**	↓	0.250	0.500	0.125	0.500	↓	0.125	↓	6.48
J03750625125/N	**0.375**	↓	0.375	0.625	0.125	0.625	↓	0.125	↓	3.42

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Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$
	d1	Tol.	d	D	h	D1	Tol.	h1	Tol.	
J03750687156/N*	**0.375**	+.003 -.003	0.375	0.687	0.156	0.687	+.001 -.001	0.156	+.015 -.000	3.56
J05000687094/N	**0.500**		0.500	0.687	0.094	0.687		0.094		3.73
J05000750125/N	**0.500**		0.500	0.750	0.125	0.750		0.125		5.49
J05001125250/N*	**0.500**		0.500	1.125	0.250	1.125		0.250		4.19
J06250875125/N	**0.625**		0.625	0.875	0.125	0.875		0.125		4.25
J06250937187/N	**0.625**		0.625	0.937	0.187	0.937		0.187		4.25
J06251000125/N	**0.625**		0.625	1.000	0.125	1.000		0.125		6.41
J06870937125/N	**0.687**		0.687	0.937	0.125	0.937		0.125		4.09
J06871000187/N	**0.687**		0.687	1.000	0.187	1.000		0.187		4.15
J07501000125/N	**0.750**		0.750	1.000	0.125	1.000		0.125		4.65
J07501062187/N	**0.750**		0.750	1.062	0.187	1.062		0.187		9.32
J07501125187/N	**0.750**		0.750	1.125	0.187	1.125		0.187		7.36
J07501250250/N	**0.750**		0.750	1.250	0.250	1.250		0.250		4.28
J07501375375/N*	**0.750**		0.750	1.375	0.375	1.375		0.375		12.05
J08751125125/N	**0.875**		0.875	1.125	0.125	1.125		0.125		4.65
J08751250187/N	**0.875**		0.875	1.250	0.187	1.250		0.187		4.70
J08751312236/N*	**0.875**		0.875	1.312	0.236	1.312		0.236		9.32
J10001250125/N	**1.000**		1.000	1.250	0.125	1.250		0.125		4.46
J10001312125/N	**1.000**		1.000	1.312	0.125	1.312		0.125		8.78
J10001375187/N	**1.000**		1.000	1.375	0.187	1.375		0.187		5.16
J10001437250/N	**1.000**		1.000	1.437	0.250	1.437		0.250		6.01
J10001500187/N	**1.000**		1.000	1.500	0.187	1.500		0.187		4.30
J10001625250/N	**1.000**		1.000	1.625	0.250	1.625		0.250		4.30
J10001625375/N*	**1.000**		1.000	1.625	0.375	1.625		0.375		17.30
J10621312125/N	**1.062**		1.062	1.312	0.125	1.312		0.125		8.85
J10621437187/N*	**1.062**		1.062	1.437	0.187	1.437		0.187		4.68
J10621500187/N	**1.062**		1.062	1.500	0.187	1.500		0.187		5.83
J11251375125/N	**1.125**		1.125	1.375	0.125	1.375		0.125		4.30
J11251500187/N	**1.125**		1.125	1.500	0.187	1.500		0.187		4.30
J11251500250/N	**1.125**		1.125	1.500	0.250	1.500		0.250		4.40
J11251562250/N	**1.125**		1.125	1.562	0.250	1.562		0.250		4.66
J11251625250/N	**1.125**		1.125	1.625	0.250	1.625		0.250		4.30
J11871625250/N	**1.187**		1.187	1.625	0.250	1.625		0.250		4.40
J12501500125/N	**1.250**		1.250	1.500	0.125	1.500		0.125		4.30
J12501625250/N	**1.250**		1.250	1.625	0.250	1.625		0.250		4.80
J12501687187/N	**1.250**		1.250	1.687	0.187	1.687		0.187		4.66
J12501750250/N	**1.250**		1.250	1.750	0.250	1.750		0.250		5.96
J12501875250/N	**1.250**		1.250	1.875	0.250	1.875		0.250		6.81
J13751625125/N	**1.375**		1.375	1.625	0.125	1.625		0.125		7.35
J13751750187/N	**1.375**		1.375	1.750	0.187	1.750		0.187		4.66
J13751875250/N	**1.375**		1.375	1.875	0.250	1.875		0.250		6.74
J13751937250/N	**1.375**		1.375	1.937	0.250	1.937		0.250		12.91
J15001750125/N	**1.500**		1.500	1.750	0.125	1.750		0.125		13.21
J15001875187/N	**1.500**		1.500	1.875	0.187	1.875		0.187		4.98
J15001875250/N	**1.500**		1.500	1.875	0.250	1.875		0.250		5.09
J15002000187/N	**1.500**		1.500	2.000	0.187	2.000		0.187		11.64

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

J/N series - NBR/STEEL

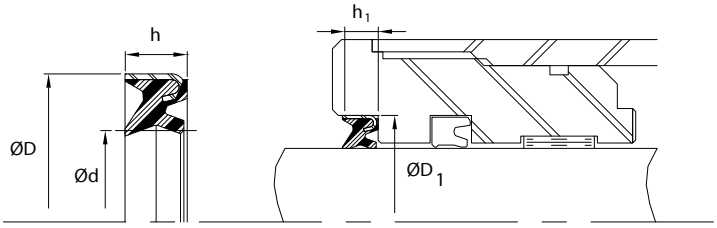
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$
	d1	Tol.	d	D	h	D1	Tol.	h1	Tol.	
J15002000250/N	**1.500**	+.003 -.003	1.500	2.000	0.250	2.000	+.001 -.001	0.250	+.015 -.000	5.23
J15622500250/N*	**1.562**		1.562	2.500	0.250	2.500		0.250		11.88
J16252000187/N	**1.625**		1.625	2.000	0.187	2.000		0.187		10.54
J16252125250/N	**1.625**		1.625	2.125	0.250	2.125		0.250		7.11
J16252625250/N*	**1.625**		1.625	2.625	0.250	2.625		0.250		20.56
J17502125187/N	**1.750**		1.750	2.125	0.187	2.125		0.187		7.22
J17502156187/N	**1.750**		1.750	2.156	0.187	2.156		0.187		6.74
J17502250250/N	**1.750**		1.750	2.250	0.250	2.250		0.250		7.59
J17502375250/N	**1.750**		1.750	2.375	0.250	2.375		0.250		7.72
J17502625250/N	**1.750**		1.750	2.625	0.250	2.625		0.250		7.95
J18752250187/N	**1.875**		1.875	2.250	0.187	2.250		0.187		13.60
J18752500250/N	**1.875**		1.875	2.500	0.250	2.500		0.250		8.74
J20002375187/N	**2.000**		2.000	2.375	0.187	2.375		0.187		8.47
J20002500250/N	**2.000**		2.000	2.500	0.250	2.500		0.250		8.07
J20002625250/N	**2.000**		2.000	2.625	0.250	2.625		0.250		8.47
J20002687375/N	**2.000**		2.000	2.687	0.375	2.687		0.375		15.69
J20002750250/N*	**2.000**		2.000	2.750	0.250	2.750		0.250		11.65
J20002875468/N*	**2.000**		2.000	2.875	0.468	2.875		0.468		16.77
J21252500187/N	**2.125**		2.125	2.500	0.187	2.500		0.187		9.68
J22502625187/N	**2.250**		2.250	2.625	0.187	2.625		0.187		9.09
J22502625250/N	**2.250**		2.250	2.625	0.250	2.625		0.250		9.68
J22502750250/N	**2.250**		2.250	2.750	0.250	2.750		0.250		9.68
J22502875250/N	**2.250**		2.250	2.875	0.250	2.875		0.250		9.68
J23753000250/N	**2.375**		2.375	3.000	0.250	3.000		0.250		10.01
J25003000250/N	**2.500**		2.500	3.000	0.250	3.000	+.002 -.002	0.250		9.90
J25003125250/N	**2.500**		2.500	3.125	0.250	3.125		0.250		13.03
J26603250375/N*	**2.660**		2.660	3.250	0.375	3.250		0.375		11.94
J27503125187/N	**2.750**		2.750	3.125	0.187	3.125		0.187		9.65
J27503250250/N	**2.750**		2.750	3.250	0.250	3.250		0.250		11.34
J27503750375/N	**2.750**		2.750	3.750	0.375	3.750		0.375		14.27
J28753375250/N	**2.875**		2.875	3.375	0.250	3.375		0.250		9.05
J30003500250/N	**3.000**		3.000	3.500	0.250	3.500		0.250		10.78
J30003750250/N	**3.000**		3.000	3.750	0.250	3.750		0.250		11.91
J32503875312/N*	**3.250**		3.250	3.875	0.312	3.875		0.312		19.66
J35004000250/N	**3.500**		3.500	4.000	0.250	4.000		0.250		15.24
J37504375328/N*	**3.750**		3.750	4.375	0.328	4.375		0.328		22.31
J52506250250/N*	**5.250**		5.250	6.250	0.250	6.250		0.250		31.96
J55006125375/N*	**5.500**		5.500	6.125	0.375	6.125		0.375		53.97

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

J/DL - Rod wipers - Inch



Standard Materials	Temperature Range	Surface Speed
9250 AU 90/Steel	-65°F to +300°F (-54°C to +149°C)	< 1.6 ft/s (0.5 m/s)
DL/Y AU 92/Steel	-40°F to +212°F (-40°C to +100°C)	
30000 Polyurethane AU 94	-31°F to +250°F (-35°C to +121°C)	



J/DL-style rod wipers are a high performance wiper used in the toughest applications. The wiping edge removes the dirt and grime from the rod, thereby keeping the system running clean and at its peak performance. A secondary sealing edge prevents residual oil film from escaping, helping the system achieve zero leakage performance.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Tolerance Guide					
d1	**Tol.**	**D1**	**Tol.**	**H1**	**Tol.**
d1=1.500" < 3.000"	(+.000/-.003)	D1= All Sizes	(+.001/-.001)	H1= All Sizes	(+.015/-.000)
d1=3.000" < 7.000"	(+.000/-.004)				
d1=7.000" & Up	(+.000/-.005)				

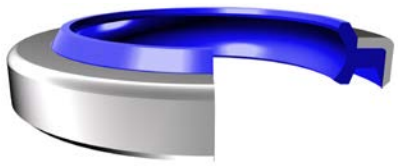
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$		
		Tol.	d	D	h	D1	Tol.	h1	Tol.	9250	/Y	30K
J15002250433DL	**1.500**	+.000 -.003	1.500	2.250	0.433	2.250	+.001 -.001	0.433	+.015 -.000	42.48	33.98	29.74
J16252375433DL	**1.625**		1.625	2.375	0.433	2.375		0.433		42.75*	34.20*	29.93*
J17502437433DL	**1.750**		1.750	2.437	0.433	2.437		0.433		43.27	34.62	30.29
J17502500433DL	**1.750**		1.750	2.500	0.433	2.500		0.433		43.50*	34.80	30.45*
J18752562433DL	**1.875**		1.875	2.562	0.433	2.562		0.433		43.99*	35.19	30.79*
J18752625433DL	**1.875**		1.875	2.625	0.433	2.625		0.433		42.47*	33.98*	29.73*
J20002687433DL	**2.000**		2.000	2.687	0.433	2.687		0.433		45.34	36.27	31.74
J20002750433DL	**2.000**		2.000	2.750	0.433	2.750		0.433		46.17*	36.94*	32.32*
J21252875433DL	**2.125**		2.125	2.875	0.433	2.875		0.433		46.32*	37.06	32.42*
J22503000433DL	**2.250**		2.250	3.000	0.433	3.000		0.433		47.27	37.82	33.09
J23753125433DL	**2.375**		2.375	3.125	0.433	3.125		0.433		49.06*	39.25	34.34*
J25003250433DL	**2.500**		2.500	3.250	0.433	3.250		0.433		50.90	40.72	35.63
J26253375433DL	**2.625**		2.625	3.375	0.433	3.375		0.433		42.50*	34.00	29.75*
J27503750550DL	**2.750**		2.750	3.750	0.550	3.750		0.550		53.91	43.13	37.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

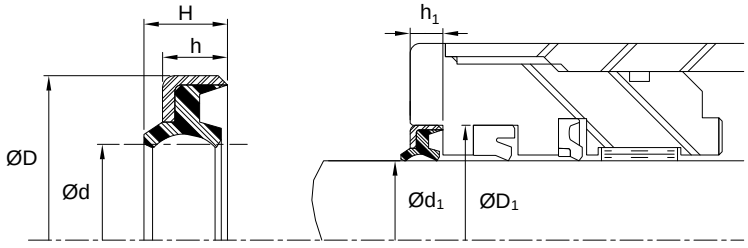
J/DL series - AU/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$		
		Tol.	d	D	h	D1	Tol.	h1	Tol.	9250	/Y	30K
J30004000550DL	**3.000**	+.000 -.004	3.000	4.000	0.550	4.000	+.001 -.001	0.550	+.015 -.000	55.70	44.56	38.99
J32504250550DL	**3.250**		3.250	4.250	0.550	4.250		0.550		57.30	45.84	40.11
J35004500550DL	**3.500**		3.500	4.500	0.550	4.500		0.550		58.70	46.96	41.09
J37504750550DL	**3.750**		3.750	4.750	0.550	4.750		0.550		59.76	47.81	41.83
J40005000550DL	**4.000**		4.000	5.000	0.550	5.000		0.550		60.15	48.12	42.11
J42505250550DL	**4.250**		4.250	5.250	0.550	5.250		0.550		75.27*	60.22	52.69*
J45005500550DL	**4.500**		4.500	5.500	0.550	5.500		0.550		85.01*	68.01	59.51*
J47505750550DL	**4.750**		4.750	5.750	0.550	5.750		0.550		97.84*	78.27	68.49*
J50006000550DL	**5.000**		5.000	6.000	0.550	6.000		0.550		101.33	81.06	70.93
J52506250550DL	**5.250**		5.250	6.250	0.550	6.250		0.550		96.87*	77.50*	67.81*
J55006500550DL	**5.500**		5.500	6.500	0.550	6.500		0.550		63.70*	50.96	44.59*
J57506750550DL	**5.750**		5.750	6.750	0.550	6.750		0.550		115.87*	92.70	81.11*
J60007000550DL	**6.000**		6.000	7.000	0.550	7.000		0.550		51.03*	40.82	35.72*
J62507250550DL	**6.250**		6.250	7.250	0.550	7.250		0.550		52.78*	42.22*	36.95*
J65007500550DL	**6.500**		6.500	7.500	0.550	7.500		0.550		53.39*	42.71	37.37*
J67507750550DL	**6.750**		6.750	7.750	0.550	7.750		0.550		120.87*	96.70	84.61*
J70008000550DL	**7.000**		7.000	8.000	0.550	8.000		0.550		125.17	100.14	87.62*
J72508250550DL	**7.250**		7.250	8.250	0.550	8.250		0.550		134.84*	107.87*	94.39*
J75008500550DL	**7.500**		7.500	8.500	0.550	8.500		0.550		147.25*	117.80	103.08*
J77508750550DL	**7.750**		7.750	8.750	0.550	8.750		0.550		165.87*	132.70*	116.11*
J80009000550DL	**8.000**		8.000	9.000	0.550	9.000		0.550		217.93*	174.34	152.55*
J82509250550DL	**8.250**		8.250	9.250	0.550	9.250		0.550		225.63*	180.50*	157.94*
J85009500550DL	**8.500**		8.500	9.500	0.550	9.500		0.550		232.47*	185.98*	162.73*
J87509750550DL	**8.750**		8.750	9.750	0.550	9.750		0.550		268.71*	214.97	188.10*
J150001600550DL	**15.000**		15.000	16.000	0.550	16.000		0.550		325.87*	260.70*	---
J157501675055ODL	**15.750**		15.750	16.750	0.550	16.750		0.550		400.39*	320.31*	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Materials	Temperature Range	Surface Speed
Polyurethane/Steel	-22°F to +212°F (-30°C to +100°C)	<3.3 ft/s (1 m/s)



Similar in use to the **J-style**, the **J-WR-style** has the added benefit of being a double-lip design to aid both in secondary sealing and wiping applications.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

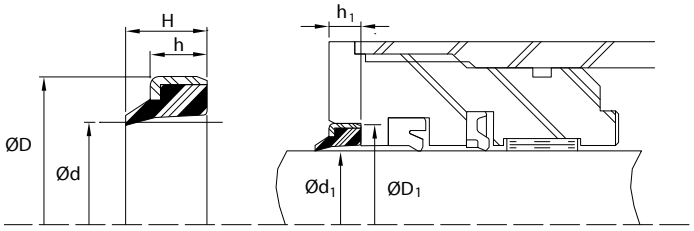
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
J20002500312/WR*	**2.000**	+.000 -.003	2.000	2.500	0.312	2.000	+.000 -.003	2.500	+.001 -.001	0.312	+.015 -.000	29.56
J22502750312/WR*	**2.250**		2.250	2.750	0.312	2.250		2.750		0.312		40.25
J25003000312/WR*	**2.500**		2.500	3.000	0.312	2.500		3.000		0.312		36.73
J26253125312/WR*	**2.625**		2.625	3.125	0.312	2.625		3.125		0.312		49.77
J27503250312/WR*	**2.750**		2.750	3.250	0.312	2.750		3.250		0.312		38.09
J30003500312/WR*	**3.000**		3.000	3.500	0.312	3.000		3.500		0.312		39.58
J32503750312/WR*	**3.250**		3.250	3.750	0.312	3.250		3.750		0.312		43.33
J35004125312/WR*	**3.500**		3.500	4.125	0.312	3.500		4.125		0.312		44.57
J37504250312/WR*	**3.750**		3.750	4.250	0.312	3.750		4.250		0.312		O/R
J37504750500/WR*	**3.750**		3.750	4.750	0.312	3.750		4.750		0.312		O/R
J40004625312/WR*	**4.000**		4.000	4.625	0.312	4.000		4.625		0.312		48.57

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

MPW - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Polyurethane/Steel	-40°F to +212°F (-40°C to +100°C)	< 3 ft/s (0.9 m/s)



MPW-style single-lipped, metal-cased wiper is designed to press fit into open groove housings for a wide range of applications. The precision trimmed polyurethane wiping element is securely bonded to a metal case treated to inhibit rust.

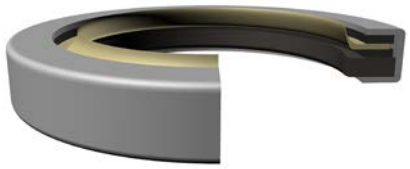
The proportions of the polyurethane wiping lip follow the side movement of the rod to clear away heavily deposited dirt and make this wiper an excellent choice for dirty conditions.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

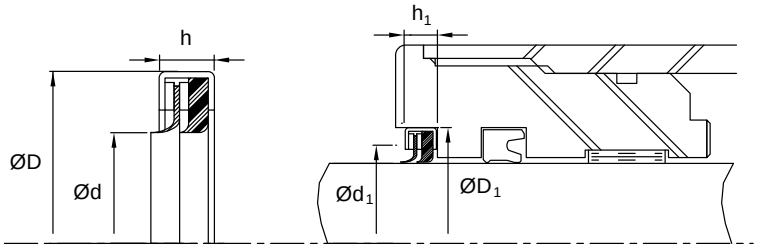
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$
	d1	Tol.	d	D	h	D1	Tol.	h1	Tol.	
MPW-00750	**0.750**	+.003 -.003	0.750	1.125	0.187	1.125	+.002 -.000	0.218	+.020 -.000	12.65
MPW-01000	**1.000**		1.000	1.375	0.187	1.375		0.218		12.65
MPW-01250	**1.250**		1.250	1.625	0.187	1.625		0.218		13.26
MPW-01500	**1.500**		1.500	1.875	0.187	1.875		0.218		13.85
MPW-01750	**1.750**		1.750	2.125	0.187	2.125		0.218		14.38
MPW-02000	**2.000**	+.000 -.004	2.000	2.375	0.187	2.375		0.218		14.69
MPW-02250	**2.250**		2.250	2.625	0.187	2.625		0.218		15.75
MPW-02500	**2.500**		2.500	2.875	0.187	2.875		0.218		15.98
MPW-02750	**2.750**		2.750	3.125	0.187	3.125		0.218		16.43
MPW-03000	**3.000**		3.000	3.375	0.187	3.375		0.218		18.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WU - Rod wipers - Inch



Standard Material	Temperature Range
Nitrile/Brass/Steel	-40°F to +250°F (-40°C to +121°C)



WU-style wiper/scraper consists of a self-aligning brass scraper and a nitrile wiping lip assembled together and securely clamped into a steel shell. This scraper removes sticky and abrasive contaminants such as ice, mud, and tar from cylinder rods, while the nitrile lip removes water, dust, and other abrasive matter too small to be blocked by the scraper.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

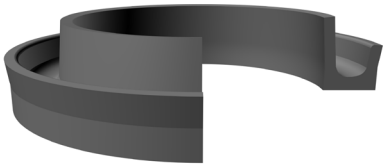
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$
	d1	Tol.	d	D	h	D1	Tol.	h1	Tol.	
WU-00500*	**0.500**	+.000 -.002	0.500	1.000	0.250	1.000	+.002 -.000	0.281	+.020 -.000	31.16
WU-00625*	**0.625**		0.625	1.125	0.281	1.125		0.312		31.69
WU-00750*	**0.750**		0.750	1.250	0.281	1.250		0.312		32.15
WU-00875*	**0.875**		0.875	1.375	0.281	1.375		0.312		32.64
WU-01000	**1.000**		1.000	1.500	0.281	1.500		0.312		33.12
WU-01125*	**1.125**		1.125	1.625	0.281	1.625		0.312		37.13
WU-01250	**1.250**		1.250	1.750	0.281	1.750		0.312		46.54
WU-01375*	**1.375**		1.375	1.875	0.281	1.875		0.312		49.98
WU-01500	**1.500**		1.500	2.000	0.281	2.000		0.312		53.43
WU-01625*	**1.625**		1.625	2.125	0.281	2.125		0.312		55.78
WU-01687	**1.687**		1.687	2.183	0.312	2.183		0.343		59.44
WU-01750	**1.750**		1.750	2.250	0.281	2.250		0.312		60.87
WU-01875*	**1.875**		1.875	2.375	0.281	2.375		0.312		62.27
WU-02000*	**2.000**		2.000	2.500	0.281	2.500		0.312		63.40
WU-02000-1*	**2.000**		2.000	2.625	0.281	2.625		0.312		64.85
WU-02250	**2.250**		2.250	2.750	0.281	2.750		0.312		66.63
WU-02375*	**2.375**		2.375	2.875	0.281	2.875		0.312		127.41
WU-02500*	**2.500**	+.000 -.003	2.500	3.000	0.281	3.000		0.312		72.60
WU-02500-1*	**2.500**		2.500	3.125	0.281	3.125		0.312		78.62
WU-02750	**2.750**		2.750	3.250	0.281	3.250		0.312		82.72
WU-03000	**3.000**	+.000 -.004	3.000	3.500	0.281	3.500		0.312		86.79
WU-03250*	**3.250**		3.250	3.875	0.328	3.875		0.359		99.14

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

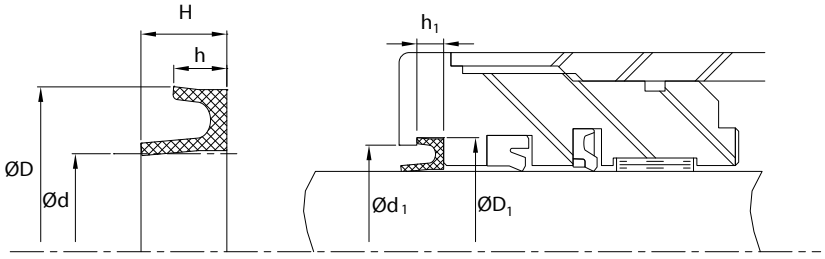
WU series - NBR/BRASS/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$
	d1	Tol.	d	D	h	D1	Tol.	h1	Tol.	
WU-03500	**3.500**	+.000 -.004	3.500	4.125	0.328	4.125	+.002 -.000	0.359	+.020 -.000	108.60
WU-03750*	**3.750**		3.750	4.375	0.328	4.375		0.359		118.61
WU-04000	**4.000**	+.000 -.005	4.000	4.625	0.328	4.625		0.359		142.45
WU-04250*	**4.250**		4.250	4.875	0.328	4.875		0.359		142.67
WU-04500*	**4.500**		4.500	5.125	0.328	5.125		0.359		183.03
WU-05500*	**5.500**		5.500	6.125	0.359	6.125		0.390		249.65

WY - Rod wipers - Inch



Standard Material	Temperature Range	Surface Speed
Nylon	-40°F to +212°F (-40°C to +100°C)	< 16.4 ft/s (5 m/s)



WY-Style Rod wiper is designed to remove more tenacious mud and ice from a reciprocating rod during the negative stroke. It is classified as a heavy duty scraper. The scraper is precision moulded in Nylon (PA) with a filter of MOS2 to improve the friction and wear characteristics of the material. The materials high modulus (stiffness) allow it to aggressively scrape larger debris from the rod. the wiper is designed with an outside sealing lip providing positive sealing on the housing thus preventing dirt and moisture from entering the system around the outside of the wiper.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
WY-00500*	**0.500**	+.000 -.002	0.500	0.875	0.156	0.812	+.002 -.000	0.875	+.002 -.000	0.172	+.005 -.000	7.38
WY-00625*	**0.625**		0.625	1.000	0.156	0.937		1.000		0.172		7.61
WY-00750*	**0.750**		0.750	1.250	0.218	1.187		1.250		0.234		7.84
WY-00875	**0.875**		0.875	1.375	0.218	1.312		1.375		0.234		7.93
WY-01000	**1.000**		1.000	1.500	0.218	1.437		1.500		0.234		8.07
WY-01125*	**1.125**		1.125	1.625	0.218	1.562		1.625		0.234		8.13
WY-01250	**1.250**		1.250	1.750	0.218	1.687		1.750		0.234		8.31

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
WY-01375*	**1.375**	+.000 -.002	1.375	1.875	0.218	1.812	+.002 -.000	1.875	+.002 -.000	0.234	+.005 -.000	8.39
WY-01500	**1.500**		1.500	2.000	0.218	1.937		2.000		0.234		8.54
WY-01625*	**1.625**		1.625	2.125	0.218	2.062		2.125		0.234		O/R
WY-01750*	**1.750**		1.750	2.250	0.218	2.187		2.250		0.234		9.23
WY-01875*	**1.875**		1.875	2.375	0.218	2.312		2.375		0.234		O/R
WY-02000	**2.000**		2.000	2.500	0.218	2.437		2.500		0.234		10.60
WY-02125*	**2.125**		2.125	2.625	0.218	2.562		2.625		0.234		O/R
WY-02250*	**2.250**		2.250	2.750	0.218	2.687		2.750		0.234		10.85
WY-02500*	**2.500**		2.500	3.000	0.218	2.937		3.000		0.234		11.31
WY-02750*	**2.750**		2.750	3.250	0.218	3.187		3.250		0.234		14.31
WY-03000	**3.000**		3.000	3.500	0.218	3.437		3.500		0.234		15.01
WY-03250*	**3.250**		3.250	3.750	0.218	3.687		3.750		0.234		16.67
WY-03500*	**3.500**		3.500	4.000	0.218	3.937		4.000		0.234		15.90
WY-03750*	**3.750**		3.750	4.250	0.218	4.187		4.250		0.234		O/R
WY-04000	**4.000**		4.000	4.500	0.218	4.375		4.500		0.234		18.91

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OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace, it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request, please do not hesitate to contact us and we will do our best to help you locate the required part.





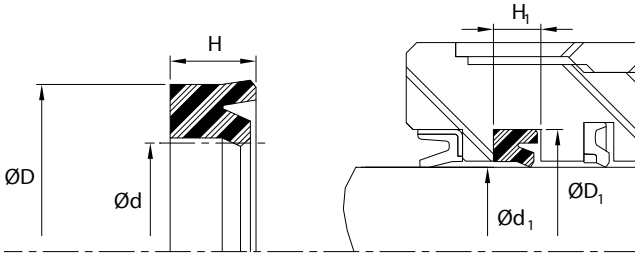
	UR	B	2
	KR	B	9
	BS	B	10
	BS/3L	B	17
	BS/SL	B	18
	RU9	B	19
	621	B	21
	BD	B	24
	DZ	B	25
	DZR	B	28

	ZA	B	29
	BR	B	30
	BR-653	B	31
	HBY	B	32
	RBS	B	33
	RDB	B	34
	SR3	B	35
	RSS	B	36
	R2B	B	42
	TR	B	45

UR - Rod seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
STD Polyurethane AU 92A	-20°F to +220°F (-30°C to +100°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)
9250 Polyurethane AU 92A	-65°F to +300°F (-54°C to +149°C)	≤6000 psi (≤414 bar)	
4615 Polyurethane AU 92A	-65°F to +200°F (-54°C to +93°C)	≤5000 psi (≤345 bar)	
30000 Polyurethane AU 94	-31°F to +250°F (-35°C to +121°C)	≤7250 psi (≤500 bar)	



The **UR-style** rod seal is a non-symmetrical hydraulic U-Cup type seal. The machined. beveled lip faces the rod to provide both low and high pressures as well as to wipe the rod of the fluid film.
It is an economical design, exhibiting good wear and extrusion resistance.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Tolerance Guide					
d1	**Tol.**	**D1**	**Tol.**	**H1**	**Tol.**
d1<1.500"	(+.000/-.001)	D1<1.000"	(+.002/-.000)	H1= All Sizes	(+.015/-.000)
d1=1.500" < 3.000"	(+.000/-.002)	D1=1.000" < 2.000"	(+.003/-.000)		
d1=3.000" < 4.000"	(+.000/-.003)	D1=2.000" < 5.000"	(+.004/-.000)		
d1=4.000" < 8.000"	(+.000/-.004)	D1=5.000" < 8.000"	(+.005/-.000)		
d1=8.000" & Up	(+.000/-.005)	D1=8.000" & Up	(+.006/-.000)		

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	4615	30K
UR12500250-187	**0.250**	0.250	0.500	0.187	0.500	0.218	5.83*	---	7.02*	---
UR12500312	**0.312**	0.312	0.562	0.125	0.562	0.156	---	9.69*	---	---
UR12500375	**0.375**	0.375	0.625	0.125	0.625	0.156	---	10.11	---	---
UR12500437	**0.437**	0.437	0.687	0.125	0.687	0.156	6.02*	---	7.25*	---
UR12500500	**0.500**	0.500	0.750	0.125	0.750	0.156	6.01*	10.67*	7.24*	---
UR12500500-187	**0.500**	0.500	0.750	0.187	0.750	0.218	6.39*	---	7.70*	---
UR12500500-250	**0.500**	0.500	0.750	0.250	0.750	0.281	6.39*	---	7.70*	---
UR18700562	**0.562**	0.562	0.937	0.187	0.937	0.218	---	13.02*	---	---
UR18700562-250	**0.562**	0.562	0.937	0.250	0.937	0.281	---	22.44*	---	---
UR18700562-312	**0.562**	0.562	0.937	0.312	0.937	0.343	---	10.53*	---	---
UR12500625	**0.625**	0.625	0.875	0.125	0.875	0.156	---	10.67	---	---
UR12500625-187	**0.625**	0.625	0.875	0.187	0.875	0.218	---	13.53	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	4615	30K
UR12500625-250	**0.625**	0.625	0.875	0.250	0.875	0.281	6.61*	10.67	7.96*	---
UR18700625	**0.625**	0.625	1.000	0.187	1.000	0.218	---	10.53	---	---
UR18700625-250	**0.625**	0.625	1.000	0.250	1.000	0.281	---	10.67*	---	---
UR18700625-281	**0.625**	0.625	1.000	0.281	1.000	0.312	6.75*	---	---	---
UR18700625-312	**0.625**	0.625	1.000	0.312	1.000	0.343	---	11.08*	---	---
UR18700687	**0.687**	0.687	1.062	0.187	1.062	0.218	6.75*	10.94*	8.13*	---
UR18700687-250	**0.687**	0.687	1.062	0.250	1.062	0.281	---	11.08*	---	---
UR18700687-312	**0.687**	0.687	1.062	0.312	1.062	0.343	---	11.50*	---	---
UR09400750-187	**0.750**	0.750	0.937	0.187	0.937	0.218	---	11.64*	---	---
UR12500750	**0.750**	0.750	1.000	0.125	1.000	0.156	---	11.55*	---	---
UR12500750-155	**0.750**	0.750	1.000	0.155	1.000	0.186	---	12.33*	---	---
UR12500750-187	**0.750**	0.750	1.000	0.187	1.000	0.218	---	11.08*	---	---
UR12500750-250	**0.750**	0.750	1.000	0.250	1.000	0.281	6.81*	13.70*	8.20	---
UR18700750	**0.750**	0.750	1.125	0.187	1.125	0.218	---	11.50*	---	---
UR18700750-250	**0.750**	0.750	1.125	0.250	1.125	0.281	---	11.50*	---	---
UR18700750-312	**0.750**	0.750	1.125	0.312	1.125	0.343	7.00*	11.91*	8.43*	---
UR25000750	**0.750**	0.750	1.250	0.250	1.250	0.281	4.63*	---	5.58*	---
UR12500812-187	**0.812**	0.812	1.062	0.187	1.062	0.218	---	11.22*	---	---
UR18700812	**0.812**	0.812	1.187	0.187	1.187	0.218	7.34*	---	8.84*	---
UR18700812-250	**0.812**	0.812	1.187	0.250	1.187	0.281	---	12.05*	---	---
UR18700812-312	**0.812**	0.812	1.187	0.312	1.187	0.343	---	12.88*	---	---
UR12500875	**0.875**	0.875	1.125	0.125	1.125	0.156	---	13.05*	---	---
UR12500875-187	**0.875**	0.875	1.125	0.187	1.125	0.218	---	11.50*	---	---
UR12500875-250	**0.875**	0.875	1.125	0.250	1.125	0.281	7.09*	11.50*	8.54*	---
UR18700875	**0.875**	0.875	1.250	0.187	1.250	0.218	---	12.18*	---	---
UR18700875-250	**0.875**	0.875	1.250	0.250	1.250	0.281	---	13.99	---	---
UR18700875-312	**0.875**	0.875	1.250	0.312	1.250	0.343	---	13.30*	---	---
UR12500937-187	**0.937**	0.937	1.187	0.187	1.187	0.218	---	11.64*	---	---
UR18700937-312	**0.937**	0.937	1.312	0.312	1.312	0.343	3.28*	---	3.95*	---
UR25000937-375	**0.937**	0.937	1.437	0.375	1.437	0.406	---	10.93	---	---
UR32800969-375	**0.969**	0.969	1.625	0.375	1.625	0.406	---	19.67*	---	---
UR12501000	**1.000**	1.000	1.250	0.125	1.250	0.156	---	14.06	---	---
UR12501000-155	**1.000**	1.000	1.250	0.155	1.250	0.186	---	12.05*	---	---
UR12501000-250	**1.000**	1.000	1.250	0.250	1.250	0.281	8.32*	12.05	10.02	---
UR18701000	**1.000**	1.000	1.375	0.187	1.375	0.218	---	12.88	---	---
UR18701000-250	**1.000**	1.000	1.375	0.250	1.375	0.281	8.32*	13.16*	10.02*	---
UR18701000-312	**1.000**	1.000	1.375	0.312	1.375	0.343	8.32*	13.02*	10.02*	---
UR25001000	**1.000**	1.000	1.500	0.250	1.500	0.281	8.01*	1275.30*	9.65	---
UR25001000-312	**1.000**	1.000	1.500	0.312	1.500	0.343	---	11.14*	---	---
UR25001000-375	**1.000**	1.000	1.500	0.375	1.500	0.406	8.33*	14.27	10.03*	---
UR29701031-375	**1.031**	1.031	1.625	0.375	1.625	0.406	14.81*	18.43*	---	---
UR18701062-312	**1.062**	1.062	1.437	0.312	1.437	0.343	---	13.99*	---	---
UR18701125-250	**1.125**	1.125	1.500	0.250	1.500	0.281	8.60*	13.71*	10.35	---
UR18701125-312	**1.125**	1.125	1.500	0.312	1.500	0.343	8.60*	12.92	10.35	---
UR18701125-375	**1.125**	1.125	1.500	0.375	1.500	0.406	---	13.12	---	---
UR25001125	**1.125**	1.125	1.625	0.250	1.625	0.281	---	16.19*	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

UR series - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	4615	30K
UR25001125-375	**1.125**	1.125	1.625	0.375	1.625	0.406	---	14.41	---	---
UR31201125	**1.125**	1.125	1.750	0.312	1.750	0.343	---	17.04*	---	---
UR18701187-250	**1.187**	1.187	1.562	0.250	1.562	0.281	---	14.27*	---	---
UR18701187-312	**1.187**	1.187	1.562	0.312	1.562	0.343	8.88*	---	10.69	---
UR12501250-250	**1.250**	1.250	1.500	0.250	1.500	0.281	8.83*	13.02	10.63*	---
UR18701250-250	**1.250**	1.250	1.625	0.250	1.625	0.281	9.36*	14.55*	11.27	---
UR18701250-312	**1.250**	1.250	1.625	0.312	1.625	0.343	9.36*	14.96	11.27	---
UR18701250-375	**1.250**	1.250	1.625	0.375	1.625	0.406	---	15.45*	---	---
UR25001250	**1.250**	1.250	1.750	0.250	1.750	0.281	---	15.73*	---	---
UR25001250-312	**1.250**	1.250	1.750	0.312	1.750	0.343	---	15.73*	---	---
UR25001250-375	**1.250**	1.250	1.750	0.375	1.750	0.406	8.81*	14.27	10.61*	---
UR31201250-437	**1.250**	1.250	1.875	0.437	1.875	0.468	---	17.45*	---	---
UR25001312-375	**1.312**	1.312	1.812	0.375	1.812	0.406	---	15.65*	---	---
UR12501375-250	**1.375**	1.375	1.625	0.250	1.625	0.281	9.72*	15.09*	11.70	---
UR18701375-250	**1.375**	1.375	1.750	0.250	1.750	0.281	9.95*	---	11.98	---
UR18701375-312	**1.375**	1.375	1.750	0.312	1.750	0.343	9.95*	17.45	11.98	---
UR18701375-375	**1.375**	1.375	1.750	0.375	1.750	0.406	---	18.01	---	---
UR25001375-312	**1.375**	1.375	1.875	0.312	1.875	0.343	---	15.79*	---	---
UR25001375-375	**1.375**	1.375	1.875	0.375	1.875	0.406	9.69*	16.07*	11.67*	---
UR31201375-375	**1.375**	1.375	2.000	0.375	2.000	0.406	---	16.05*	---	---
UR18701500-250	**1.500**	1.500	1.875	0.250	1.875	0.281	10.11*	15.24	12.17	---
UR18701500-312	**1.500**	1.500	1.875	0.312	1.875	0.343	10.11*	15.79	12.17	---
UR18701500-375	**1.500**	1.500	1.875	0.375	1.875	0.406	10.11*	16.49	12.17	---
UR25001500-312	**1.500**	1.500	2.000	0.312	2.000	0.343	9.91*	18.72	11.94	---
UR25001500-375	**1.500**	1.500	2.000	0.375	2.000	0.406	9.91*	17.45	11.94	---
UR31201500-500	**1.500**	1.500	2.125	0.500	2.125	0.531	---	20.64	---	---
UR18701625-250	**1.625**	1.625	2.000	0.250	2.000	0.281	10.26*	15.65*	12.36*	---
UR18701625-312	**1.625**	1.625	2.000	0.312	2.000	0.343	---	16.35	---	---
UR18701625-375	**1.625**	1.625	2.000	0.375	2.000	0.406	10.26*	17.04*	12.36*	---
UR25001625-312	**1.625**	1.625	2.125	0.312	2.125	0.343	---	20.51*	---	---
UR25001625-375	**1.625**	1.625	2.125	0.375	2.125	0.406	10.93*	18.43*	13.17*	---
UR18701687-279	**1.687**	1.687	2.062	0.279	2.062	0.310	---	17.73*	---	---
UR18701750-250	**1.750**	1.750	2.125	0.250	2.125	0.281	10.48*	19.40	12.62*	---
UR18701750-274	**1.750**	1.750	2.125	0.274	2.125	0.305	---	17.45*	---	---
UR18701750-312	**1.750**	1.750	2.125	0.312	2.125	0.343	---	17.59	---	---
UR18701750-375	**1.750**	1.750	2.125	0.375	2.125	0.406	10.48*	18.01	12.62*	---
UR25001750	**1.750**	1.750	2.250	0.250	2.250	0.281	---	18.70	---	---
UR25001750-312	**1.750**	1.750	2.250	0.312	2.250	0.343	---	18.98	---	---
UR25001750-375	**1.750**	1.750	2.250	0.375	2.250	0.406	10.92	19.26	13.15	---
UR25001750-500	**1.750**	1.750	2.250	0.500	2.250	0.531	---	21.57*	---	---
UR31201750-375	**1.750**	1.750	2.375	0.375	2.375	0.406	---	22.16	---	---
UR31201750-500	**1.750**	1.750	2.375	0.500	2.375	0.531	---	22.72*	---	---
UR12501875-250	**1.875**	1.875	2.125	0.250	2.125	0.281	---	13.16*	---	---
UR18701875-312	**1.875**	1.875	2.250	0.312	2.250	0.343	---	40.97	---	---
UR18701875-375	**1.875**	1.875	2.250	0.375	2.250	0.406	---	19.53	---	---
UR25001875-312	**1.875**	1.875	2.375	0.312	2.375	0.343	---	34.63*	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	4615	30K
UR25001875-375	**1.875**	1.875	2.375	0.375	2.375	0.406	---	50.12*	---	---
UR18702000-250	**2.000**	2.000	2.375	0.250	2.375	0.281	---	23.03	---	---
UR18702000-312	**2.000**	2.000	2.375	0.312	2.375	0.343	11.33*	19.26	13.65*	---
UR18702000-375	**2.000**	2.000	2.375	0.375	2.375	0.406	11.33*	19.67	13.65*	---
UR25002000-312	**2.000**	2.000	2.500	0.312	2.500	0.343	---	24.15	---	---
UR25002000-375	**2.000**	2.000	2.500	0.375	2.500	0.406	11.85*	21.06	14.28	---
UR31202000-250	**2.000**	2.000	2.625	0.250	2.625	0.281	---	25.49*	---	---
UR31202000	**2.000**	2.000	2.625	0.312	2.625	0.343	---	24.52*	---	---
UR31202000-375	**2.000**	2.000	2.625	0.375	2.625	0.406	---	23.42*	---	---
UR37502000	**2.000**	2.000	2.750	0.375	2.750	0.406	---	25.06	---	---
UR37502000-500	**2.000**	2.000	2.750	0.500	2.750	0.531	---	25.06	---	---
UR37502000-625	**2.000**	2.000	2.750	0.625	2.750	0.656	---	34.63*	---	---
UR25002125-312	**2.125**	2.125	2.625	0.312	2.625	0.343	---	22.16	---	---
UR25002125-375	**2.125**	2.125	2.625	0.375	2.625	0.406	---	30.30	---	---
UR31202125-500	**2.125**	2.125	2.750	0.500	2.750	0.531	---	27.29	---	---
UR18702250-281	**2.250**	2.250	2.625	0.281	2.625	0.312	12.75*	---	15.35	---
UR18702250-312	**2.250**	2.250	2.625	0.312	2.625	0.343	---	24.49*	---	---
UR18702250-375	**2.250**	2.250	2.625	0.375	2.625	0.406	---	21.20	---	---
UR25002250-312	**2.250**	2.250	2.750	0.312	2.750	0.343	---	22.72	---	---
UR25002250-375	**2.250**	2.250	2.750	0.375	2.750	0.406	13.60*	23.83	16.38*	---
UR28202250-375	**2.250**	2.250	2.813	0.375	2.813	0.406	---	23.28*	---	---
UR31202250-375	**2.250**	2.250	2.875	0.375	2.875	0.406	---	27.83*	---	---
UR31202250-500	**2.250**	2.250	2.875	0.500	2.875	0.531	15.81*	27.83*	19.04*	---
UR25002375-312	**2.375**	2.375	2.875	0.312	2.875	0.343	---	24.24*	---	---
UR25002375-375	**2.375**	2.375	2.875	0.375	2.875	0.406	---	20.99	---	---
UR31202375-375	**2.375**	2.375	3.000	0.375	3.000	0.406	---	25.06	---	---
UR31202375-500	**2.375**	2.375	3.000	0.500	3.000	0.531	---	26.46*	---	---
UR18702500-312	**2.500**	2.500	2.875	0.312	2.875	0.343	---	34.03*	---	---
UR18702500-375	**2.500**	2.500	2.875	0.375	2.875	0.406	14.16*	23.41	17.06*	---
UR25002500	**2.500**	2.500	3.000	0.250	3.000	0.281	---	25.06*	---	---
UR25002500-312	**2.500**	2.500	3.000	0.312	3.000	0.343	---	25.06	---	---
UR25002500-375	**2.500**	2.500	3.000	0.375	3.000	0.406	15.44*	26.18	18.60*	---
UR31202500-375	**2.500**	2.500	3.125	0.375	3.125	0.406	---	29.51	---	---
UR31202500-437	**2.500**	2.500	3.125	0.437	3.125	0.468	---	29.92*	---	---
UR31202500-500	**2.500**	2.500	3.125	0.500	3.125	0.531	17.57*	30.34	21.16*	---
UR37502500-400	**2.500**	2.500	3.250	0.400	3.250	0.430	---	41.42*	---	---
UR25002625-375	**2.625**	2.625	3.125	0.375	3.125	0.406	---	25.58*	---	---
UR31202625-625	**2.625**	2.625	3.250	0.625	3.250	0.656	---	40.75	---	---
UR37502625-625	**2.625**	2.625	3.375	0.625	3.375	0.656	---	44.19*	O/R*	---
UR25002750-375	**2.750**	2.750	3.250	0.375	3.250	0.406	16.62*	29.22	20.02*	---
UR31202750-375	**2.750**	2.750	3.375	0.375	3.375	0.406	---	29.65*	---	---
UR31202750-500	**2.750**	2.750	3.375	0.500	3.375	0.531	---	33.11*	---	---
UR37502750	**2.750**	2.750	3.500	0.375	3.500	0.406	---	48.76*	---	---
UR37502750-625	**2.750**	2.750	3.500	0.625	3.500	0.656	---	36.71*	---	---
UR21803000-312	**3.000**	3.000	3.437	0.312	3.437	0.343	14.80*	---	---	---
UR21803000-375	**3.000**	3.000	3.437	0.375	3.437	0.406	---	---	O/R*	---

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UR series - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	4615	30K
UR25003000-375	**3.000**	3.000	3.500	0.375	3.500	0.406	21.88*	30.82	26.35*	38.75*
UR31203000-375	**3.000**	3.000	3.625	0.375	3.625	0.406	---	30.83	---	---
UR31203000-500	**3.000**	3.000	3.625	0.500	3.625	0.531	20.40*	35.46*	24.57*	---
UR37503000	**3.000**	3.000	3.750	0.375	3.750	0.406	---	29.69	---	---
UR37503000-500	**3.000**	3.000	3.750	0.500	3.750	0.531	---	49.31*	---	---
UR37503000-562	**3.000**	3.000	3.750	0.562	3.750	0.594	---	49.87*	---	---
UR37503000-625	**3.000**	3.000	3.750	0.625	3.750	0.656	---	33.76*	---	---
UR25003125-375	**3.125**	3.125	3.625	0.375	3.625	0.406	---	35.88*	---	---
UR31203125-375	**3.125**	3.125	3.750	0.375	3.750	0.406	17.75*	35.46*	21.38*	---
UR37503125-625	**3.125**	3.125	3.875	0.625	3.875	0.656	---	51.67*	---	---
UR25003250-375	**3.250**	3.250	3.750	0.375	3.750	0.406	19.65*	32.97	23.66*	---
UR31203250-500	**3.250**	3.250	3.875	0.500	3.875	0.531	---	37.03	---	---
UR37503250-500	**3.250**	3.250	4.000	0.500	4.000	0.531	---	36.15*	---	---
UR37503250-625	**3.250**	3.250	4.000	0.625	4.000	0.656	---	53.06*	---	---
UR25003375-375	**3.375**	3.375	3.875	0.375	3.875	0.406	---	27.83	---	---
UR31203375-375	**3.375**	3.375	4.000	0.375	4.000	0.406	---	33.38*	---	---
UR31203375-500	**3.375**	3.375	4.000	0.500	4.000	0.531	---	35.92*	---	---
UR31203375-625	**3.375**	3.375	4.000	0.625	4.000	0.656	---	53.53	---	---
UR25003500-375	**3.500**	3.500	4.000	0.375	4.000	0.406	21.16*	29.24	25.48*	---
UR31203500-500	**3.500**	3.500	4.125	0.500	4.125	0.531	21.45*	---	25.84*	---
UR37503500	**3.500**	3.500	4.250	0.375	4.250	0.406	---	39.06*	---	---
UR37503500-500	**3.500**	3.500	4.250	0.500	4.250	0.531	31.74*	39.06*	38.22	---
UR37503500-625	**3.500**	3.500	4.250	0.625	4.250	0.656	31.74*	51.67	38.22	---
UR50003500	**3.500**	3.500	4.500	0.500	4.500	0.531	---	43.36*	---	---
UR50003500-625	**3.500**	3.500	4.500	0.625	4.500	0.656	---	73.56*	---	---
UR50003500-750	**3.500**	3.500	4.500	0.750	4.500	0.781	---	75.36*	---	---
UR37503625	**3.625**	3.625	4.375	0.375	4.375	0.406	---	39.06*	---	---
UR37503625-500	**3.625**	3.625	4.375	0.500	4.375	0.531	---	53.06*	---	---
UR25003750-375	**3.750**	3.750	4.250	0.375	4.250	0.406	---	44.41	---	---
UR25003750-590	**3.750**	3.750	4.250	0.590	4.250	0.620	---	70.14*	---	---
UR31203750-375	**3.750**	3.750	4.375	0.375	4.375	0.406	---	44.05	---	---
UR31203750-500	**3.750**	3.750	4.375	0.500	4.375	0.531	---	38.35*	---	---
UR37503750-500	**3.750**	3.750	4.500	0.500	4.500	0.531	---	56.38*	---	---
UR25003875-375	**3.875**	3.875	4.375	0.375	4.375	0.406	---	40.04*	---	---
UR43703875-750	**3.875**	3.875	4.750	0.750	4.750	0.781	---	66.62*	---	125.36*
UR25004000	**4.000**	4.000	4.500	0.250	4.500	0.281	---	42.50*	---	---
UR25004000-375	**4.000**	4.000	4.500	0.375	4.500	0.406	22.67*	40.59	27.30*	---
UR25004000-562	**4.000**	4.000	4.500	0.562	4.500	0.593	22.67*	32.02	27.30*	---
UR31204000-375	**4.000**	4.000	4.625	0.375	4.625	0.406	---	45.85	---	---
UR31204000-500	**4.000**	4.000	4.625	0.500	4.625	0.531	---	44.69	---	---
UR37504000	**4.000**	4.000	4.750	0.375	4.750	0.406	---	44.69	---	---
UR37504000-500	**4.000**	4.000	4.750	0.500	4.750	0.531	---	44.69*	---	---
UR37504000-625	**4.000**	4.000	4.750	0.625	4.750	0.656	34.91*	69.20*	42.05*	---
UR37504125-500	**4.125**	4.125	4.875	0.500	4.875	0.531	---	50.70*	---	---
UR25004250-562	**4.250**	4.250	4.750	0.562	4.750	0.594	---	40.58*	---	---
UR37504250-500	**4.250**	4.250	5.000	0.500	5.000	0.531	35.52*	43.78*	---	---

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Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	4615	30K
UR37504250-625	**4.250**	4.250	5.000	0.625	5.000	0.656	---	45.29	---	---
UR37504375	**4.375**	4.375	5.125	0.375	5.125	0.406	26.24*	---	31.60*	---
UR37504375-500	**4.375**	4.375	5.125	0.500	5.125	0.531	---	62.28*	---	---
UR25004500-562	**4.500**	4.500	5.000	0.562	5.000	0.594	---	44.15*	---	---
UR31204500-375	**4.500**	4.500	5.125	0.375	5.125	0.406	---	51.52	---	51.86
UR31204500-500	**4.500**	4.500	5.125	0.500	5.125	0.531	29.58*	51.81*	35.63*	---
UR37504500-500	**4.500**	4.500	5.250	0.500	5.250	0.531	---	46.94*	---	---
UR37504500-625	**4.500**	4.500	5.250	0.625	5.250	0.656	---	46.52	---	---
UR43704500	**4.500**	4.500	5.375	0.437	5.375	0.468	---	58.31*	---	---
UR31204625-625	**4.625**	4.625	5.250	0.625	5.250	0.656	---	42.76	---	---
UR37504625-500	**4.625**	4.625	5.375	0.500	5.375	0.531	---	58.88*	---	---
UR25004750-562	**4.750**	4.750	5.250	0.562	5.250	0.593	28.27*	50.56*	34.04*	136.43*
UR37504750-500	**4.750**	4.750	5.500	0.500	5.500	0.531	---	71.89*	---	---
UR37504750-625	**4.750**	4.750	5.500	0.625	5.500	0.656	40.27*	72.03*	48.50*	---
UR43704750-750	**4.750**	4.750	5.625	0.750	5.625	0.781	---	78.14*	---	---
UR37504875-500	**4.875**	4.875	5.625	0.500	5.625	0.531	---	79.47*	---	---
UR37504875-625	**4.875**	4.875	5.625	0.625	5.625	0.656	---	64.28*	---	---
UR25005000-562	**5.000**	5.000	5.500	0.562	5.500	0.594	---	55.89*	---	---
UR28105000-500	**5.000**	5.000	5.562	0.500	5.562	0.531	31.74*	---	38.22*	---
UR31205000-375	**5.000**	5.000	5.625	0.375	5.625	0.406	---	59.57	---	---
UR31205000-500	**5.000**	5.000	5.625	0.500	5.625	0.531	---	59.98*	---	---
UR37505000-500	**5.000**	5.000	5.750	0.500	5.750	0.531	---	75.50*	---	---
UR37505000-625	**5.000**	5.000	5.750	0.625	5.750	0.656	39.67*	75.50*	47.78*	---
UR25005250-562	**5.250**	5.250	5.750	0.562	5.750	0.594	---	59.01*	---	---
UR25005250-590	**5.250**	5.250	5.750	0.590	5.750	0.620	---	101.56*	---	---
UR31205250-625	**5.250**	5.250	5.875	0.625	5.875	0.656	---	70.42*	---	---
UR37505250-625	**5.250**	5.250	6.000	0.625	6.000	0.656	---	70.95	---	79.30
UR25005375-562	**5.375**	5.375	5.875	0.562	5.875	0.593	---	61.37*	---	---
UR37505375-625	**5.375**	5.375	6.125	0.625	6.125	0.656	---	73.83*	---	---
UR25005500-562	**5.500**	5.500	6.000	0.562	6.000	0.594	---	63.45*	---	---
UR31205500-375	**5.500**	5.500	6.125	0.375	6.125	0.406	---	73.89	---	---
UR31205500-500	**5.500**	5.500	6.125	0.500	6.125	0.531	---	68.57*	---	---
UR37505500-500	**5.500**	5.500	6.250	0.500	6.250	0.531	---	73.28*	---	---
UR37505500-625	**5.500**	5.500	6.250	0.625	6.250	0.656	---	83.53*	---	---
UR46505570-625	**5.570**	5.570	6.500	0.625	6.500	0.656	---	86.58*	---	---
UR25005750-562	**5.750**	5.750	6.250	0.562	6.250	0.594	---	76.19*	---	---
UR37505750-500	**5.750**	5.750	6.500	0.500	6.500	0.531	---	96.62*	---	---
UR37505750-625	**5.750**	5.750	6.500	0.625	6.500	0.656	---	96.62	---	86.35
UR25006000-562	**6.000**	6.000	6.500	0.562	6.500	0.594	---	69.95*	---	---
UR37506000-500	**6.000**	6.000	6.750	0.500	6.750	0.531	---	90.32	---	---
UR37506000-625	**6.000**	6.000	6.750	0.625	6.750	0.656	---	101.38	---	---
UR37506250-625	**6.250**	6.250	7.000	0.625	7.000	0.656	---	91.70*	---	---
UR25006500-375	**6.500**	6.500	7.000	0.375	7.000	0.406	---	75.23*	---	---
UR31206500-625	**6.500**	6.500	7.125	0.625	7.125	0.656	---	80.35*	---	---
UR37506500-500	**6.500**	6.500	7.250	0.500	7.250	0.531	---	110.78	---	108.80
UR37506500-625	**6.500**	6.500	7.250	0.625	7.250	0.656	---	132.87	---	---

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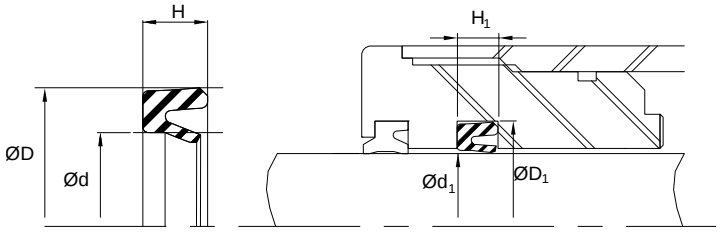
UR series - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	4615	30K
UR50006500-715	**6.500**	6.500	7.500	0.715	7.500	0.745	---	117.76*	---	-
UR50006500-750	**6.500**	6.500	7.500	0.750	7.500	0.781	---	120.10*	---	---
UR25006750-590	**6.750**	6.750	7.250	0.590	7.250	0.620	---	131.61*	---	---
UR37506750-590	**6.750**	6.750	7.500	0.590	7.500	0.620	---	98.22*	---	---
UR25007000-562	**7.000**	7.000	7.500	0.562	7.500	0.594	---	81.31*	---	---
UR37507000-500	**7.000**	7.000	7.750	0.500	7.750	0.531	---	120.76	---	313.45*
UR37507000-625	**7.000**	7.000	7.750	0.625	7.750	0.656	---	130.58	---	---
UR39207000-475	**7.000**	7.000	7.784	0.475	7.784	0.506	50.87*	---	---	203.10
UR50007000-625	**7.000**	7.000	8.000	0.625	8.000	0.656	---	128.41*	---	---
UR50007000-690	**7.000**	7.000	8.000	0.690	8.000	0.720	---	140.37*	---	---
UR50007000-750	**7.000**	7.000	8.000	0.750	8.000	0.781	---	141.75	---	---
UR37507250-625	**7.250**	7.250	8.000	0.625	8.000	0.656	---	102.46*	---	---
UR37507500-500	**7.500**	7.500	8.250	0.500	8.250	0.531	44.52*	107.77*	53.62*	---
UR37507500-625	**7.500**	7.500	8.250	0.625	8.250	0.656	---	96.53*	---	---
UR62507500-1000	**7.500**	7.500	8.750	1.000	8.750	1.031	---	184.68*	---	---
UR25008125-590	**8.125**	8.125	8.625	0.590	8.625	0.620	---	97.67*	---	---
UR37508250-625	**8.250**	8.250	9.000	0.625	9.000	0.656	---	142.97*	---	---
UR37508500-500	**8.500**	8.500	9.250	0.500	9.250	0.531	---	131.12*	---	---
UR50008500	**8.500**	8.500	9.500	0.500	9.500	0.531	---	144.02*	---	---
UR37509000-590	**9.000**	9.000	9.750	0.590	9.750	0.620	---	136.60*	---	---
UR37509000-625	**9.000**	9.000	9.750	0.625	9.750	0.656	---	143.94*	---	---
UR39209000-475	**9.000**	9.000	9.784	0.475	9.784	0.506	65.43*	---	---	170.39
UR50009000-625	**9.000**	9.000	10.000	0.625	10.000	0.656	---	192.02*	---	---
UR50009000-750	**9.000**	9.000	10.000	0.750	10.000	0.781	---	182.25*	---	---
UR50009500-625	**9.500**	9.500	10.500	0.625	10.500	0.656	---	169.00*	---	---
UR50009500-750	**9.500**	9.500	10.500	0.750	10.500	0.781	---	173.02*	---	---
UR25409750-590	**9.750**	9.750	10.258	0.590	10.258	0.620	---	123.44*	---	174.24*
UR37509750-625	**9.750**	9.750	10.500	0.625	10.500	0.656	---	170.54*	---	---
UR50010000-625	**10.000**	10.000	11.000	0.625	11.000	0.656	---	190.99	---	---
UR50010000-750	**10.000**	10.000	11.000	0.750	11.000	0.781	---	272.30*	---	---
UR50011000-650	**11.000**	11.000	12.000	0.650	12.000	0.671	---	---	---	493.79
UR50012000-625	**12.000**	12.000	13.000	0.625	13.000	0.656	---	278.02*	---	---
UR50012000-690	**12.000**	12.000	13.000	0.690	13.000	0.720	---	285.94*	---	---
UR50012000-750	**12.000**	12.000	13.000	0.750	13.000	0.781	---	265.71*	---	---
UR50012500-650	**12.500**	12.500	13.500	0.650	13.500	0.671	---	---	---	407.29
UR50015000-600	**15.000**	15.000	16.000	0.600	16.000	0.631	92.87	---	---	---
UR56215000-750	**15.000**	15.000	16.125	0.750	16.125	0.781	---	493.15*	---	---
UR56215000-1000	**15.000**	15.000	16.125	1.000	16.125	1.031	---	458.80*	---	---
UR50015750-750	**15.750**	15.750	16.750	0.750	16.750	0.781	125.64	---	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-50°F to +180°F (-46°C to +82°C)	≤230 psi (≤16 bar)	<3 ft/s (0.91 m/s)



The **KR-style** single-acting rod seal for pneumatic applications is designed to give significant improvements in cylinder performance in low lube air conditions and to be used in long and short stroke applications. The **KR-style** is well proven in heavy-duty pneumatic applications, such as logging and forestry equipment.

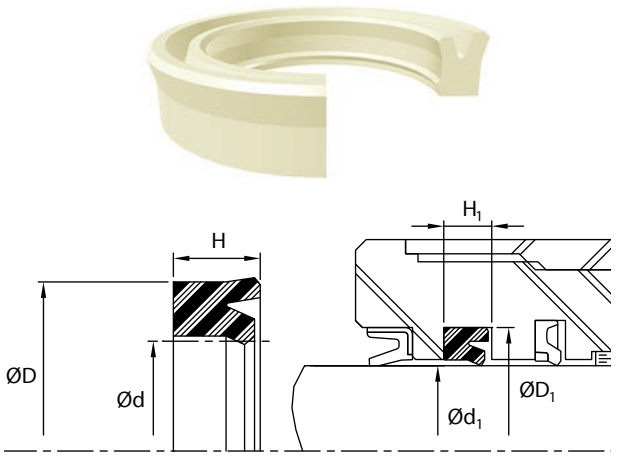
The material combined with the design of the dynamic sealing lip offers lowfriction, significantly less than that of a rubber seal, and an ultra-long life.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
KR125-00625/609	**0.625**	+.000/-.002	0.625	0.875	0.250	0.625	+.000/-.002	0.875	+.003 -.003	0.275	+.010 -.000	11.40
KR125-00750/609*	**0.750**	+.000 -.003	0.750	1.000	0.250	0.750	+.000 -.003	1.000		0.275		12.42
KR120-01000/609*	**1.000**		1.000	1.240	0.187	1.000		1.240		0.207		12.90
KR125-01000/609*	**1.000**		1.000	1.250	0.250	1.000		1.250		0.275		12.90
KR125-01125/609*	**1.125**		1.125	1.375	0.187	1.125		1.375		0.207		13.44
KR125-01250/609*	**1.250**		1.250	1.500	0.250	1.250		1.500		0.275		13.68
KR125-01375/609*	**1.375**		1.375	1.625	0.250	1.375		1.625		0.275		14.04
KR187-01500/609*	**1.500**		1.500	1.875	0.250	1.500		1.875		0.275		16.08
KR187-01750/609*	**1.750**		1.750	2.125	0.312	1.750		2.125	+.004 -.004	0.344		16.86
KR125-02000/609*	**2.000**	+.004 -.000	2.000	2.250	0.250	2.000	+.004 -.000	2.250		0.275		16.08
KR187-02000/609*	**2.000**		2.000	2.375	0.312	2.000		2.375		0.344		16.74
KR312-02000/609*	**2.000**		2.000	2.625	0.312	2.000		2.625		0.344		25.62
KR250-02500/609*	**2.500**		2.500	3.000	0.284	2.500		3.000		0.312		25.62

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

BS - Rod seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
STD Polyurethane AU 92A	-40°F to +230°F (-40°C to +110°C)	≤5800 psi (≤400 bar)	<1.6 ft/s (0.5 m/s)
605 Hythane AU 92A	-50°F to +230°F (-45°C to +110°C)	≤6000 psi (≤414 bar)	
9250 Polyurethane AU 92A	-65°F to +300°F (-54°C to +149°C)	≤6000 psi (≤414 bar)	
4700/4693 Polyurethane AU 93A	-65°F to +200°F (-54°C to +107°C)	≤5000 psi (≤345 bar)	
4300 Polyurethane AU 90A	-65°F to +275°F (-54°C to +135°C)	≤5000 psi (≤345 bar)	
30000 Polyurethane AU 94	-31°F to +250°F (-35°C to +121°C)	≤7250 psi (≤500 bar)	

The **BS-style** uses the basic **UR** profile but adds a secondary lip on the inside portion of the heel for added stability. preventing the seal from rocking inside the groove on high cycling / long stroke type action.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Tolerance Guide					
d1	**Tol.**	**D1**	**Tol.**	**H1**	**Tol.**
d1<1.500"	(+.000/-.001)	D1<1.000"	(+.000/-.002)	H1= All Sizes	(+.010/-.000)
d1=1.500" < 3.000"	(+.000/-.002)	D1=1.000" < 2.000"	(+.000/-.003)		
d1=3.000" < 4.000"	(+.000/-.003)	D1=2.000" < 5.000"	(+.000/-.004)		
d1=4.000" & Up	(+.000/-.004)	D1=5.000" < 6.500"	(+.000/-.005)		
		D1=6.500" & Up	(+.000/-.006)		

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	H	D1	H1	STD	9250	30K	605	4xxx
BS12500375-198	**0.375**	0.375	0.625	0.198	0.625	0.218	---	---	---	10.38*	---
BS18700375-312	**0.375**	0.375	0.750	0.312	0.750	0.343	---	---	---	10.38*	---
BS12500500-187	**0.500**	0.500	0.750	0.187	0.750	0.206	---	---	---	9.91	---
BS12500500-250	**0.500**	0.500	0.750	0.250	0.750	0.281	---	---	---	---	---
BS25000500-375	**0.500**	0.500	1.000	0.375	1.000	0.406	---	---	---	---	---
BS12500562-187	**0.562**	0.562	0.812	0.187	0.812	0.206	---	---	---	---	---
BS12500562-250	**0.562**	0.562	0.812	0.250	0.812	0.281	---	---	---	---	---
BS12500625-187	**0.625**	0.625	0.875	0.187	0.875	0.218	---	7.63*	9.92*	10.38	9.92
BS12500625-241	**0.625**	0.625	0.875	0.241	0.875	0.265	---	---	---	10.38	---
BS12500625-250	**0.625**	0.625	0.875	0.250	0.875	0.281	---	---	---	---	---
BS18700625-281	**0.625**	0.625	1.000	0.281	1.000	0.309	---	---	---	10.38	---
BS12500687-187	**0.687**	0.687	0.937	0.187	0.937	0.206	---	---	---	10.38	---
BS09300750-156	**0.750**	0.750	0.937	0.156	0.937	0.171	---	---	---	10.41	---
BS12500750	**0.750**	0.750	1.000	0.125	1.000	0.138	---	---	---	10.38	---
BS12500750-187	**0.750**	0.750	1.000	0.187	1.000	0.218	---	---	---	10.38	---

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Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	H	D1	H1	STD	9250	30K	605	4xxx
BS12500750-250	**0.750**	0.750	1.000	0.250	1.000	0.275	---	14.20	18.45*	12.78	---
BS18700750-250	**0.750**	0.750	1.125	0.250	1.125	0.281	---	13.99	18.19*	---	---
BS18700750-312	**0.750**	0.750	1.125	0.312	1.125	0.343	9.13	12.68	16.49*	12.83	---
BS12500812-187	**0.812**	0.812	1.062	0.187	1.062	0.206	---	---	---	---	---
BS12500812-250	**0.812**	0.812	1.062	0.250	1.062	0.275	---	---	---	10.38*	---
BS12500875-187	**0.875**	0.875	1.125	0.187	1.125	0.218	---	---	---	10.05	---
BS12500875-250	**0.875**	0.875	1.125	0.250	1.125	0.281	---	---	---	10.07	---
BS18700875-250	**0.875**	0.875	1.250	0.250	1.250	0.281	---	---	---	---	---
BS25000875-341	**0.875**	0.875	1.375	0.341	1.375	0.375	---	---	---	10.20*	---
BS12001000-187	**1.000**	1.000	1.240	0.187	1.240	0.206	---	---	---	11.13	---
BS12501000-187	**1.000**	1.000	1.250	0.187	1.250	0.218	---	---	---	11.17	---
BS12501000-250	**1.000**	1.000	1.250	0.250	1.250	0.281	9.60	12.55	16.31*	11.29	16.31
BS15601000-218	**1.000**	1.000	1.312	0.219	1.312	0.241	---	---	---	11.30	---
BS15601000-250	**1.000**	1.000	1.312	0.250	1.312	0.281	---	---	---	---	---
BS18701000-250	**1.000**	1.000	1.375	0.250	1.375	0.275	---	11.44	14.87*	11.93	---
BS18701000-312	**1.000**	1.000	1.375	0.312	1.375	0.343	10.30	12.59	16.36*	11.75	---
BS25001000-255	**1.000**	1.000	1.500	0.255	1.500	0.281	---	---	---	11.60	---
BS25001000-341	**1.000**	1.000	1.500	0.341	1.500	0.375	---	---	---	11.81	---
BS25001000-375	**1.000**	1.000	1.500	0.375	1.500	0.413	---	12.75	16.58*	12.77	---
BS12001062-187	**1.062**	1.062	1.302	0.187	1.302	0.206	---	---	---	11.25*	---
BS12501062-187	**1.062**	1.062	1.312	0.187	1.312	0.206	---	---	---	11.25	---
BS12501062-250	**1.062**	1.062	1.312	0.250	1.312	0.275	---	---	---	11.25*	---
BS12001125-187	**1.125**	1.125	1.365	0.192	1.365	0.211	---	---	---	11.53	---
BS12501125-187	**1.125**	1.125	1.375	0.187	1.375	0.218	9.75	---	---	11.53	---
BS12501125-250	**1.125**	1.125	1.375	0.250	1.375	0.275	---	---	---	11.53	---
BS13701125-187	**1.125**	1.125	1.399	0.187	1.399	0.206	---	---	---	11.53	---
BS18701125-250	**1.125**	1.125	1.500	0.250	1.500	0.281	---	15.99	20.79*	---	---
BS18701125-312	**1.125**	1.125	1.500	0.312	1.500	0.343	---	13.12	17.06*	11.81	---
BS21801125-325	**1.125**	1.125	1.562	0.325	1.562	0.360	---	---	---	---	---
BS25001125	**1.125**	1.125	1.625	0.250	1.625	0.275	---	---	---	13.21	---
BS25001125-375	**1.125**	1.125	1.625	0.375	1.625	0.413	8.31*	---	---	---	---
BS31201125-397	**1.125**	1.125	1.750	0.397	1.750	0.437	---	---	---	13.87*	---
BS18701187-250	**1.187**	1.187	1.562	0.250	1.562	0.275	---	---	---	11.80	---
BS12001250-197	**1.250**	1.250	1.491	0.197	1.491	0.217	---	---	---	12.04	---
BS12501250-187	**1.250**	1.250	1.500	0.187	1.500	0.218	---	---	---	11.30	---
BS12501250-250	**1.250**	1.250	1.500	0.250	1.500	0.281	---	---	---	11.97	---
BS18701250	**1.250**	1.250	1.625	0.187	1.625	0.206	---	---	---	12.71	---
BS18701250-227	**1.250**	1.250	1.625	0.227	1.625	0.250	---	---	---	12.71*	---
BS18701250-250	**1.250**	1.250	1.625	0.250	1.625	0.275	---	17.99	23.39*	16.19	---
BS18701250-312	**1.250**	1.250	1.625	0.312	1.625	0.343	10.98	18.14	23.58*	16.32	---
BS18701250-375	**1.250**	1.250	1.625	0.375	1.625	0.406	11.56	14.75	19.18*	---	---
BS25001250	**1.250**	1.250	1.750	0.250	1.750	0.275	---	---	---	13.00	---
BS25001250-375	**1.250**	1.250	1.750	0.375	1.750	0.413	---	15.73	20.44*	14.15	---
BS31201250-397	**1.250**	1.250	1.875	0.397	1.875	0.437	---	---	---	14.11	---
BS12001375-197	**1.375**	1.375	1.616	0.197	1.616	0.217	---	---	---	12.53	---
BS12501375-187	**1.375**	1.375	1.625	0.187	1.625	0.218	---	---	---	12.37	---

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BS series - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	H	D1	H1	STD	9250	30K	605	4xxx
BS12501375-250	**1.375**	1.375	1.625	0.250	1.625	0.281	---	---	---	12.56	---
BS15601375-218	**1.375**	1.375	1.687	0.218	1.687	0.240	---	---	---	13.00	---
BS15601375-250	**1.375**	1.375	1.687	0.250	1.687	0.281	---	---	---	---	---
BS15601375-312	**1.375**	1.375	1.687	0.312	1.687	0.343	---	---	---	---	---
BS18701375	**1.375**	1.375	1.750	0.187	1.750	0.206	---	---	---	13.10	---
BS18701375-312	**1.375**	1.375	1.750	0.312	1.750	0.343	---	16.97	22.05	15.27	---
BS18701375-375	**1.375**	1.375	1.750	0.375	1.75	0.406	---	16.97*	---	---	---
BS25001375-375	**1.375**	1.375	1.875	0.375	1.875	0.406	---	17.02	22.13*	15.32	---
BS31201375-397	**1.375**	1.375	2.000	0.397	2.000	0.437	---	---	---	15.12	---
BS18701437-312	**1.437**	1.437	1.812	0.312	1.812	0.343	---	---	---	13.06*	---
BS12501500-187	**1.500**	1.500	1.750	0.187	1.750	0.218	---	---	---	12.26	---
BS12501500-250	**1.500**	1.500	1.750	0.250	1.750	0.275	---	---	---	12.88	---
BS18701500	**1.500**	1.500	1.875	0.187	1.875	0.206	---	---	---	13.07	---
BS18701500-250	**1.500**	1.500	1.875	0.250	1.875	0.275	---	16.97	22.05	15.27	---
BS18701500-281	**1.500**	1.500	1.875	0.281	1.875	0.310	---	---	---	---	---
BS18701500-295	**1.500**	1.500	1.875	0.295	1.875	0.323	---	---	---	---	---
BS18701500-312	**1.500**	1.500	1.875	0.312	1.875	0.343	11.36	16.97	22.05*	15.27	---
BS18701500-375	**1.500**	1.500	1.875	0.375	1.875	0.406	11.91	16.97	22.05	15.27	---
BS25001500	**1.500**	1.500	2.000	0.250	2.000	0.275	---	---	---	15.62	---
BS25001500-250	**1.500**	1.500	2.000	0.250	2.000	0.275	---	---	---	---	---
BS25001500-341	**1.500**	1.500	2.000	0.341	2.000	0.375	---	---	---	15.62*	---
BS25001500-375	**1.500**	1.500	2.000	0.375	2.000	0.406	13.55	18.72	24.34*	16.85	24.34*
BS31201500-375	**1.500**	1.500	2.125	0.375	2.125	0.413	---	---	---	16.87	---
BS31201500-397	**1.500**	1.500	2.125	0.397	2.125	0.437	---	---	---	16.87	---
BS12501625-250	**1.625**	1.625	1.875	0.250	1.875	0.275	---	---	---	13.61*	---
BS18701625-281	**1.625**	1.625	2.000	0.281	2.000	0.309	---	---	---	15.62	---
BS18701625-312	**1.625**	1.625	2.000	0.312	2.000	0.343	---	---	---	18.39	---
BS18701625-375	**1.625**	1.625	2.000	0.375	2.000	0.406	---	19.06	24.78	17.63	---
BS25001625-375	**1.625**	1.625	2.125	0.375	2.125	0.406	---	---	---	17.23	---
BS12501750-250	**1.750**	1.750	2.000	0.250	2.000	0.275	---	---	---	14.09	---
BS18401750-283	**1.750**	1.750	2.118	0.283	2.118	0.310	---	---	---	---	---
BS18701750-250	**1.750**	1.750	2.125	0.250	2.125	0.275	---	12.79	16.63	13.16	---
BS18701750-312	**1.750**	1.750	2.125	0.312	2.125	0.343	---	19.40	25.22	17.46	---
BS18701750-375	**1.750**	1.750	2.125	0.375	2.125	0.406	7.11	19.40	25.22*	17.46	---
BS25001750	**1.750**	1.750	2.250	0.250	2.250	0.275	---	---	---	17.30	---
BS25001750-312	**1.750**	1.750	2.250	0.312	2.250	0.343	---	21.07	27.39*	---	---
BS25001750-341	**1.750**	1.750	2.250	0.341	2.250	0.375	---	---	---	17.30	---
BS25001750-375	**1.750**	1.750	2.250	0.375	2.250	0.406	14.94	21.07	27.39*	18.96	---
BS25001750-500	**1.750**	1.750	2.250	0.500	2.250	0.550	---	---	---	17.30	---
BS31201750-375	**1.750**	1.750	2.375	0.375	2.375	0.406	---	21.10*	27.43*	---	---
BS31201750-437	**1.750**	1.750	2.375	0.437	2.375	0.481	---	21.10*	---	18.99	---
BS31201750-500	**1.750**	1.750	2.375	0.500	2.375	0.531	---	21.10*	27.43*	---	---
BS18501875-281	**1.875**	1.875	2.246	0.281	2.246	0.310	---	---	---	---	---
BS18701875-312	**1.875**	1.875	2.250	0.312	2.250	0.343	---	---	---	---	---
BS18701875-375	**1.875**	1.875	2.250	0.375	2.250	0.406	---	22.44	29.18*	20.20	---
BS25001875-375	**1.875**	1.875	2.375	0.375	2.375	0.413	---	---	---	16.32	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	H	D1	H1	STD	9250	30K	605	4xxx
BS31201875-397	**1.875**	1.875	2.500	0.397	2.500	0.437	---	---	---	19.71*	---
BS12502000-187	**2.000**	2.000	2.250	0.187	2.250	0.218	---	---	---	---	---
BS12502000-250	**2.000**	2.000	2.250	0.250	2.250	0.275	---	---	---	12.33	---
BS18702000-250	**2.000**	2.000	2.375	0.250	2.375	0.275	---	22.05*	---	19.85	---
BS18702000-281	**2.000**	2.000	2.375	0.281	2.375	0.310	---	---	---	17.15	---
BS18702000-312	**2.000**	2.000	2.375	0.312	2.375	0.343	---	23.03	29.94	20.73	---
BS18702000-375	**2.000**	2.000	2.375	0.375	2.375	0.413	---	23.03	29.94*	20.73	---
BS25002000	**2.000**	2.000	2.500	0.250	2.500	0.275	---	---	---	18.88	---
BS25002000-312	**2.000**	2.000	2.500	0.312	2.500	0.343	---	---	---	17.67	---
BS25002000-341	**2.000**	2.000	2.500	0.341	2.500	0.375	---	---	---	18.88*	---
BS25002000-375	**2.000**	2.000	2.500	0.375	2.500	0.406	16.38	24.17	31.42	21.75	---
BS25002000-781	**2.000**	2.000	2.500	0.781	2.500	0.859	---	---	---	21.06*	---
BS31202000	**2.000**	2.000	2.625	0.312	2.625	0.343	---	---	---	20.89	---
BS31202000-397	**2.000**	2.000	2.625	0.397	2.625	0.437	---	---	---	20.89	---
BS31202000-500	**2.000**	2.000	2.625	0.500	2.625	0.531	---	23.42*	30.45*	20.89	---
BS37502000-625	**2.000**	2.000	2.750	0.625	2.750	0.688	---	---	---	28.36	---
BS18702125-375	**2.125**	2.125	2.500	0.375	2.500	0.406	---	---	---	18.42	---
BS25002125-375	**2.125**	2.125	2.625	0.375	2.625	0.406	---	---	---	---	---
BS18702250-268	**2.250**	2.250	2.625	0.268	2.625	0.299	---	23.03*	---	---	---
BS18702250-281	**2.250**	2.250	2.625	0.281	2.625	0.309	---	---	---	---	---
BS18702250-312	**2.250**	2.250	2.625	0.312	2.625	0.343	---	23.03*	---	---	---
BS18702250-335	**2.250**	2.250	2.625	0.335	2.625	0.368	---	---	---	19.13	---
BS18702250-375	**2.250**	2.250	2.625	0.375	2.625	0.406	---	24.49	31.84*	---	31.84
BS25002250-341	**2.250**	2.250	2.750	0.341	2.750	0.375	---	---	---	20.32	---
BS25002250-375	**2.250**	2.250	2.750	0.375	2.750	0.406	17.23	25.71	33.42	23.14	33.42*
BS31202250-500	**2.250**	2.250	2.875	0.500	2.875	0.531	---	---	---	---	---
BS37502250-511	**2.250**	2.250	3.000	0.511	3.000	0.562	---	---	---	31.32	---
BS18702375-375	**2.375**	2.375	2.750	0.375	2.750	0.413	---	---	---	20.42	---
BS25002375-375	**2.375**	2.375	2.875	0.375	2.875	0.413	---	24.49	31.84	22.04	---
BS18502500-281	**2.500**	2.500	2.871	0.281	2.871	0.310	---	---	---	---	---
BS18702500-281	**2.500**	2.500	2.875	0.281	2.875	0.310	---	---	---	---	---
BS18702500-312	**2.500**	2.500	2.875	0.312	2.875	0.343	---	---	---	18.69	---
BS18702500-375	**2.500**	2.500	2.875	0.375	2.875	0.406	---	29.40	38.22*	26.46	---
BS21802500-281	**2.500**	2.500	2.937	0.281	2.937	0.309	---	---	---	---	---
BS21802500-284	**2.500**	2.500	2.937	0.284	2.937	0.312	---	24.50*	31.85*	22.05	---
BS21802500-375	**2.500**	2.500	2.937	0.375	2.937	0.406	---	25.00*	---	---	---
BS25002500	**2.500**	2.500	3.000	0.250	3.000	0.275	---	---	---	22.29	---
BS25002500-284	**2.500**	2.500	3.000	0.284	3.000	0.312	---	---	---	22.52	---
BS25002500-375	**2.500**	2.500	3.000	0.375	3.000	0.406	---	25.06	32.57	23.07	32.57
BS31202500-500	**2.500**	2.500	3.125	0.500	3.125	0.531	---	28.02	36.43*	24.94	---
BS37502500-437	**2.500**	2.500	3.250	0.437	3.250	0.481	---	---	---	---	---
BS37502500-625	**2.500**	2.500	3.250	0.625	3.250	0.688	---	---	---	34.48	---
BS18702625-375	**2.625**	2.625	3.000	0.375	3.000	0.406	---	---	---	21.56	---
BS25002625-375	**2.625**	2.625	3.125	0.375	3.125	0.406	---	---	---	---	---
BS25002625-500	**2.625**	2.625	3.125	0.500	3.125	0.550	---	---	---	28.43*	---
BS31202625-625	**2.625**	2.625	3.250	0.625	3.250	0.688	---	---	---	25.75	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

BS series - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	H	D1	H1	STD	9250	30K	605	4xxx
BS17502650-187	**2.650**	2.650	3.000	0.187	3.000	0.218	---	23.84*	---	---	---
BS25002687-375	**2.687**	2.687	3.187	0.375	3.187	0.406	---	---	---	---	---
BS25702735-312	**2.735**	2.735	3.250	0.312	3.250	0.343	---	---	---	---	---
BS18702750-281	**2.750**	2.750	3.125	0.281	3.125	0.310	---	---	---	---	---
BS18702750-375	**2.750**	2.750	3.125	0.375	3.125	0.413	---	---	---	21.56	---
BS25002750-312	**2.750**	2.750	3.250	0.312	3.250	0.343	---	---	---	---	---
BS25002750-375	**2.750**	2.750	3.250	0.375	3.250	0.413	17.22	25.58	33.26	25.25	---
BS31202750-375	**2.750**	2.750	3.375	0.375	3.375	0.413	---	---	---	27.20	---
BS31202750-500	**2.750**	2.750	3.375	0.500	3.375	0.531	---	29.65	38.54*	26.68	---
BS31202750-805	**2.750**	2.750	3.375	0.805	3.375	0.886	---	---	---	29.44*	---
BS37502750-625	**2.750**	2.750	3.500	0.625	3.500	0.688	---	32.57*	42.33*	29.31	42.33*
BS18202875-312	**2.875**	2.875	3.240	0.312	3.240	0.343	---	---	---	25.90*	---
BS18702875-375	**2.875**	2.875	3.250	0.375	3.250	0.413	---	---	---	21.56*	---
BS18703000-375	**3.000**	3.000	3.375	0.375	3.375	0.413	---	---	---	21.09	---
BS21803000-281	**3.000**	3.000	3.437	0.281	3.437	0.309	---	30.24*	39.32*	27.22	---
BS21803000-375	**3.000**	3.000	3.437	0.375	3.437	0.406	---	---	---	---	---
BS25003000-375	**3.000**	3.000	3.500	0.375	3.500	0.406	23.90	26.39	34.31	27.30	34.31*
BS25003000-625	**3.000**	3.000	3.500	0.625	3.500	0.688	---	---	---	27.61	---
BS25003000-781	**3.000**	3.000	3.500	0.781	3.500	0.859	---	---	---	27.61	---
BS26203000-725	**3.000**	3.000	3.524	0.725	3.524	0.798	---	---	---	---	---
BS31203000-500	**3.000**	3.000	3.625	0.500	3.625	0.531	---	32.13*	41.76*	28.91	---
BS37503000-500	**3.000**	3.000	3.750	0.500	3.750	0.531	---	31.32	40.71*	---	---
BS37503000-625	**3.000**	3.000	3.750	0.625	3.750	0.688	---	---	---	41.01	---
BS18703125-375	**3.125**	3.125	3.500	0.375	3.500	0.406	---	---	---	---	---
BS18703125-625	**3.125**	3.125	3.500	0.625	3.500	0.688	---	---	---	26.40	---
BS18703250-375	**3.250**	3.250	3.625	0.375	3.625	0.406	---	---	---	27.56*	---
BS18703250-562	**3.250**	3.250	3.625	0.562	3.625	0.618	---	---	---	26.40	---
BS25003250-312	**3.250**	3.250	3.750	0.312	3.750	0.343	---	27.83*	---	---	---
BS25003250-375	**3.250**	3.250	3.750	0.375	3.750	0.406	---	27.83	36.17	29.16	36.17*
BS31203250-500	**3.250**	3.250	3.875	0.500	3.875	0.550	---	37.52*	48.78*	33.77	---
BS18203375-312	**3.375**	3.375	3.740	0.312	3.740	0.343	---	---	---	26.91*	---
BS25003375	**3.375**	3.375	3.875	0.250	3.875	0.281	---	27.83*	---	---	---
BS25003375-375	**3.375**	3.375	3.875	0.375	3.875	0.413	---	27.83*	36.18*	33.72	---
BS31203375-594	**3.375**	3.375	4.000	0.593	4.000	0.652	---	---	---	32.40	---
BS31203375-625	**3.375**	3.375	4.000	0.625	4.000	0.688	---	---	---	---	---
BS18703500-281	**3.500**	3.500	3.875	0.281	3.875	0.310	---	---	---	---	---
BS18703500-375	**3.500**	3.500	3.875	0.375	3.875	0.413	---	---	---	26.30	---
BS25003500-312	**3.500**	3.500	4.000	0.312	4.000	0.343	---	35.78*	46.52*	31.46	---
BS25003500-375	**3.500**	3.500	4.000	0.375	4.000	0.406	10.64	29.09	37.82	31.46	37.82
BS31203500-500	**3.500**	3.500	4.125	0.500	4.125	0.531	---	---	---	33.79	---
BS37503500-625	**3.500**	3.500	4.250	0.625	4.250	0.688	---	34.12*	44.36*	46.66	44.36*
BS25003625-375	**3.625**	3.625	4.125	0.375	4.125	0.413	---	---	---	31.50*	---
BS18703750-375	**3.750**	3.750	4.125	0.375	4.125	0.413	---	---	---	---	---
BS25003750-375	**3.750**	3.750	4.250	0.375	4.250	0.413	---	34.13	44.36	31.50	44.36
BS25003750-500	**3.750**	3.750	4.250	0.500	4.250	0.550	---	---	---	32.93	---
BS25003750-562	**3.750**	3.750	4.250	0.562	4.250	0.618	---	---	---	32.93	---

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Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	H	D1	H1	STD	9250	30K	605	4xxx
BS37503750-500	**3.750**	3.750	4.500	0.500	4.500	0.531	---	36.32*	47.22*	---	---
BS18203875-312	**3.875**	3.875	4.240	0.312	4.240	0.343	---	---	---	28.10*	---
BS25003875-375	**3.875**	3.875	4.375	0.375	4.375	0.413	---	---	---	29.63	---
BS43703875-750	**3.875**	3.875	4.750	0.750	4.750	0.823	---	---	---	---	---
BS18704000-375	**4.000**	4.000	4.375	0.375	4.375	0.413	---	---	---	30.96	---
BS25004000-312	**4.000**	4.000	4.500	0.312	4.500	0.343	---	44.66*	58.05*	40.19	---
BS25004000-375	**4.000**	4.000	4.500	0.375	4.500	0.406	---	37.34	48.55	35.26	48.55*
BS25004000-562	**4.000**	4.000	4.500	0.562	4.500	0.594	---	39.44*	51.27*	35.56	51.27*
BS25004000-781	**4.000**	4.000	4.500	0.781	4.500	0.859	---	---	---	37.95	---
BS26204000-725	**4.000**	4.000	4.524	0.725	4.524	0.798	---	---	---	---	---
BS31204000-375	**4.000**	4.000	4.625	0.375	4.625	0.413	---	44.69	58.10	31.43	58.10
BS31204000-500	**4.000**	4.000	4.625	0.500	4.625	0.550	---	---	---	38.42	---
BS37504000-500	**4.000**	4.000	4.750	0.500	4.750	0.550	---	40.88*	53.14*	52.71	---
BS37504000-625	**4.000**	4.000	4.750	0.625	4.750	0.688	23.02	44.69	58.10	52.71	---
BS18704250-281	**4.250**	4.250	4.625	0.281	4.625	0.310	---	---	---	---	---
BS25004250-375	**4.250**	4.250	4.750	0.375	4.750	0.406	---	---	---	---	---
BS25004250-562	**4.250**	4.250	4.750	0.562	4.750	0.594	---	---	---	---	---
BS37504250-625	**4.250**	4.250	5.000	0.625	5.000	0.688	---	50.61	65.79	55.17*	---
BS37504250-713	**4.250**	4.250	5.000	0.713	5.000	0.745	---	---	---	---	---
BS18704500-375	**4.500**	4.500	4.875	0.375	4.875	0.413	---	---	---	---	---
BS25004500-312	**4.500**	4.500	5.000	0.312	5.000	0.343	---	50.79*	66.02*	---	---
BS25004500-375	**4.500**	4.500	5.000	0.375	5.000	0.406	---	---	---	38.31	---
BS25004500-562	**4.500**	4.500	5.000	0.562	5.000	0.594	19.14	44.15	57.39*	---	---
BS31204500-500	**4.500**	4.500	5.125	0.500	5.125	0.550	---	---	---	44.23	---
BS31204500-625	**4.500**	4.500	5.125	0.625	5.125	0.688	---	---	---	45.16	---
BS37504500-625	**4.500**	4.500	5.250	0.625	5.250	0.688	42.16	55.89*	72.65*	57.92	---
BS31204625-625	**4.625**	4.625	5.250	0.625	5.250	0.688	---	---	---	44.62	---
BS18704750-375	**4.750**	4.750	5.125	0.375	5.125	0.413	---	---	---	48.49	---
BS25004750-562	**4.750**	4.750	5.250	0.562	5.250	0.594	---	55.40*	72.02*	---	---
BS25004750-625	**4.750**	4.750	5.250	0.625	5.250	0.688	---	---	---	43.74*	---
BS37504750	**4.750**	4.750	5.500	0.375	5.500	0.406	---	58.41*	---	---	---
BS37504750-625	**4.750**	4.750	5.500	0.625	5.500	0.656	---	59.64	77.53*	---	---
BS43704750-750	**4.750**	4.750	5.625	0.750	5.625	0.823	---	---	---	---	---
BS18705000-281	**5.000**	5.000	5.375	0.281	5.375	0.310	---	---	---	---	---
BS25005000-375	**5.000**	5.000	5.500	0.375	5.500	0.406	---	---	---	43.82	---
BS25005000-562	**5.000**	5.000	5.500	0.562	5.500	0.594	19.46	---	---	45.40	---
BS25005000-781	**5.000**	5.000	5.500	0.781	5.500	0.859	---	---	---	45.40	---
BS26205000-725	**5.000**	5.000	5.524	0.725	5.524	0.798	---	---	---	---	---
BS26505000-557	**5.000**	5.000	5.531	0.557	5.531	0.613	---	---	---	45.40*	---
BS28105000-344	**5.000**	5.000	5.562	0.344	5.562	0.382	---	---	---	---	---
BS31205000-500	**5.000**	5.000	5.625	0.500	5.625	0.550	---	---	---	44.83	---
BS37505000-500	**5.000**	5.000	5.750	0.500	5.750	0.531	---	79.84*	103.79*	---	---
BS37505000-625	**5.000**	5.000	5.750	0.625	5.750	0.688	---	91.28	118.66	82.15	---
BS25005125-562	**5.125**	5.125	5.625	0.562	5.625	0.618	---	---	---	51.18	---
BS43705125-500	**5.125**	5.125	6.000	0.500	6.000	0.550	---	---	---	71.77*	---
BS37505250-625	**5.250**	5.250	6.000	0.625	6.000	0.688	---	---	---	---	---

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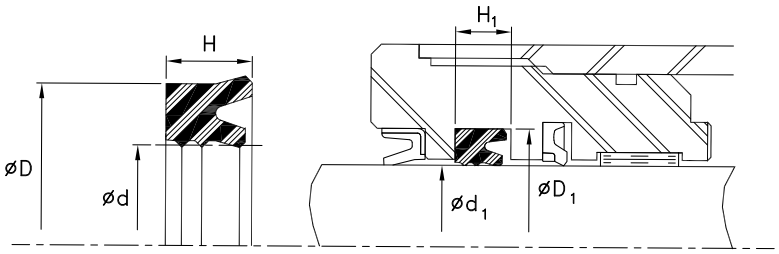
BS series - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	H	D1	H1	STD	9250	30K	605	4xxx
BS25005375-625	**5.375**	5.375	5.875	0.625	5.875	0.688	---	---	---	51.32*	---
BS31205375-625	**5.375**	5.375	6.000	0.625	6.000	0.688	---	---	---	65.39*	---
BS18705500-375	**5.500**	5.500	5.875	0.375	5.875	0.413	---	---	---	58.34	---
BS25005500-375	**5.500**	5.500	6.000	0.375	6.000	0.413	---	---	---	50.15	---
BS25005500-562	**5.500**	5.500	6.000	0.562	6.000	0.618	---	70.28*	91.36*	52.02	---
BS31205500	**5.500**	5.500	6.125	0.312	6.125	0.343	---	---	---	67.72*	---
BS31205500-375	**5.500**	5.500	6.125	0.375	6.125	0.406	---	76.08	98.90	---	---
BS37505500-625	**5.500**	5.500	6.250	0.625	6.250	0.688	---	---	---	68.71	---
BS25005625-375	**5.625**	5.625	6.125	0.375	6.125	0.413	---	---	---	---	---
BS25005750-375	**5.750**	5.750	6.250	0.375	6.250	0.406	---	---	---	---	---
BS25006000-562	**6.000**	6.000	6.500	0.562	6.500	0.594	---	---	---	57.29	---
BS25006000-781	**6.000**	6.000	6.500	0.781	6.500	0.859	---	---	---	57.29	---
BS26206000-725	**6.000**	6.000	6.524	0.725	6.524	0.798	---	---	---	---	---
BS26506000-562	**6.000**	6.000	6.531	0.562	6.531	0.618	---	---	---	57.29*	---
BS37506000-625	**6.000**	6.000	6.750	0.625	6.750	0.688	27.72	---	---	67.32	---
BS25006375-375	**6.375**	6.375	6.875	0.375	6.875	0.413	---	---	---	73.73	---
BS37506500-625	**6.500**	6.500	7.250	0.625	7.250	0.688	---	---	---	77.98	---
BS25007000-562	**7.000**	7.000	7.500	0.562	7.500	0.594	---	---	---	66.65	---
BS25007000-781	**7.000**	7.000	7.500	0.781	7.500	0.859	---	---	---	66.65	---
BS26207000-725	**7.000**	7.000	7.524	0.725	7.524	0.798	---	---	---	---	---
BS26507000-562	**7.000**	7.000	7.531	0.562	7.531	0.618	---	---	---	66.65*	---
BS31207000-375	**7.000**	7.000	7.625	0.375	7.625	0.413	---	116.39*	151.30*	---	---
BS37507000-375	**7.000**	7.000	7.750	0.375	7.750	0.413	---	---	---	---	---
BS37507000-625	**7.000**	7.000	7.750	0.625	7.750	0.688	---	---	---	83.34	---
BS50007000-750	**7.000**	7.000	8.000	0.750	8.000	0.823	---	---	---	---	---
BS25007250-375	**7.250**	7.250	7.750	0.375	7.750	0.413	---	---	---	---	---
BS25007500-375	**7.500**	7.500	8.000	0.375	8.000	0.413	---	---	---	---	---
BS37507500-625	**7.500**	7.500	8.250	0.625	8.250	0.688	---	---	---	---	---
BS37507750-625	**7.750**	7.750	8.500	0.625	8.500	0.688	---	---	---	90.76	---
BS25008000-375	**8.000**	8.000	8.500	0.375	8.500	0.413	---	---	---	---	---
BS25008000-562	**8.000**	8.000	8.500	0.562	8.500	0.618	---	---	---	77.12	---
BS26208000-725	**8.000**	8.000	8.524	0.725	8.524	0.798	---	---	---	---	---
BS37508000-625	**8.000**	8.000	8.750	0.625	8.750	0.688	---	---	---	90.76	---
BS25008125-781	**8.125**	8.125	8.625	0.781	8.625	0.859	---	---	---	80.09	---
BS26208125-725	**8.125**	8.125	8.650	0.725	8.650	0.798	---	---	---	---	---
BS37508250-625	**8.250**	8.250	9.000	0.625	9.000	0.688	---	---	---	---	---
BS25008500-375	**8.500**	8.500	9.000	0.375	9.000	0.413	---	---	---	---	---
BS25009000-562	**9.000**	9.000	9.500	0.562	9.500	0.618	---	---	---	90.48*	---
BS50009000-750	**9.000**	9.000	10.000	0.750	10.000	0.823	---	---	---	---	---
BS26209125-725	**9.125**	9.125	9.650	0.725	9.650	0.798	---	---	---	---	---
BS37509250-625	**9.250**	9.250	10.000	0.625	10.000	0.688	---	---	---	103.23*	---
BS25009375-781	**9.375**	9.375	9.875	0.781	9.875	0.859	---	---	---	92.92	---
BS26209375-725	**9.375**	9.375	9.900	0.725	9.900	0.798	---	---	---	---	---
BS25009750-375	**9.750**	9.750	10.250	0.375	10.250	0.413	---	---	---	---	---
BS25010000-562	**10.000**	10.000	10.500	0.562	10.500	0.618	---	---	---	98.50*	---
BS37510000-625	**10.000**	10.000	10.750	0.625	10.750	0.688	---	---	---	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-60°F to +250°F (-51°C to +121°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)



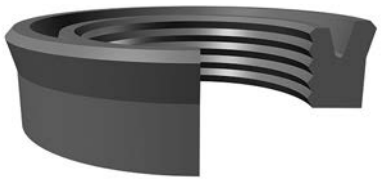
This multi-lip rod seal combines the sealing capabilities of a lip-type, U-Cup seal along with the multi-lip sealing effectiveness of compression-type stacked packings. The multiple sealing edges insure dry-sealing performance while minimizing friction.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

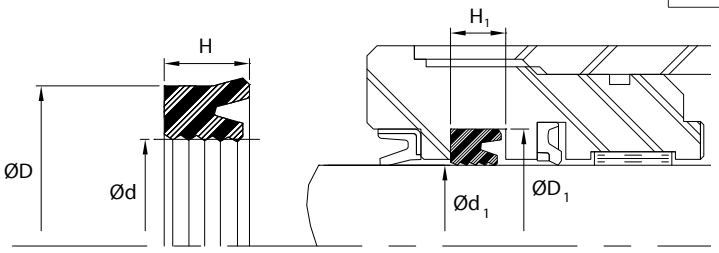
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
BS12500500-218-3L	**0.500**	+.000 -.001	0.500	0.750	0.218	0.500	+.000 -.001	0.750	+.005 -.000	0.228	+.015 -.000	22.42
BS12500625-170-3L*	**0.625**		0.625	0.875	0.170	0.625		0.875		0.187		7.41
BS12500625-218-3L	**0.625**		0.625	0.875	0.218	0.625		0.875		0.228		23.16
BS12501000-250-3L*	**1.000**		1.000	1.250	0.250	1.000		1.250		0.275		8.28
BS15601000-232-3L*	**1.000**		1.000	1.312	0.232	1.000		1.312		0.250		28.28
BS15601000-240-3L	**1.000**		1.000	1.312	0.240	1.000		1.312		0.250		24.72
BS15601375-240-3L	**1.375**		1.375	1.687	0.240	1.375		1.687		0.250		33.35
BS18701375-312-3L*	**1.375**		1.375	2.125	0.312	1.750		2.125		0.344		9.83
BS18701750-270-3L	**1.750**		1.750	2.125	0.270	1.750		2.125		0.281		39.71
BS18701750-380-3L*	**1.750**		1.750	2.125	0.380	1.750		2.125		0.410		19.38
BS18702000-270-3L	**2.000**		2.000	2.375	0.270	2.000		2.375		0.281		46.12
BS18702000-380-3L*	**2.000**		2.000	2.375	0.380	2.000		2.375		0.410		20.12
BS18702500-380-3L*	**2.500**		2.500	2.875	0.380	2.500		2.875		0.410		22.86
BS21802500-300-3L	**2.500**		2.500	2.937	0.300	2.500		2.937		0.312		48.60
BS18703000-380-3L*	**3.000**		3.000	3.375	0.380	3.000		3.375		0.410		25.96
BS21803000-300-3L	**3.000**		3.000	3.437	0.300	3.000		3.437		0.312		51.18
BS18703500-380-3L*	**3.500**		3.500	3.875	0.380	3.500		3.875		0.410		41.41
BS25003500-330-3L	**3.500**		3.500	4.000	0.330	3.500		4.000		0.344		60.81
BS18704000-380-3L*	**4.000**		4.000	4.375	0.380	4.000		4.375		0.410		49.13
BS25004000-330-3L	**4.000**		4.000	4.500	0.330	4.000		4.500		0.344		68.03
BS25004500-330-3L*	**4.500**		4.500	5.000	0.330	4.500		5.000		0.344		75.22
BS28105000-355-3L	**5.000**		5.000	5.625	0.355	5.000		5.625		0.375		82.45
BS31205500-380-3L	**5.500**		5.500	6.125	0.380	5.500		6.125		0.406		125.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

BS/SL - Rod seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Nitrile /N	-40°F to +250°F (-40°C to +121°C)	≤1000 psi (≤69 bar)	<1.6 ft/s (0.5 m/s)
Fluorocarbon /V	-20°F to +400°F (-29°C to +204°C)	≤2000 psi (≤137 bar)	<1.6 ft/s (0.5 m/s)



Similar to the **BS/3L-style** has added serrations on the dynamic lip to enhance the pump-back action. ensuring dry rods. especially useful on industrial/mill-type cylinders.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
BS12500625-156-SL/N	**0.625**	+.000 -.001	0.625	0.875	0.156	0.625	+.000 -.001	0.875	+.002 -.000	0.172	+.015 -.010	12.55
BS12500625-156-SL/V	**0.625**		0.625	0.875	0.156	0.625		0.875		0.172		43.67
BS15601000-187-SL/N	**1.000**		1.000	1.312	0.187	1.000		1.312		0.206		11.94
BS15601000-187-SL/V	**1.000**		1.000	1.312	0.187	1.000		1.312		0.206		22.19
BS15601375-187-SL/N	**1.375**		1.375	1.687	0.187	1.375		1.687		0.206		16.01
BS15601375-187-SL/V	**1.375**		1.375	1.687	0.187	1.375		1.687		0.206		47.49
BS18701375-187-SL/N	**1.375**		1.375	1.750	0.187	1.375		1.750		0.206		17.89
BS18701375-187-SL/V	**1.375**		1.375	1.750	0.187	1.375		1.750		0.206		34.87
BS18701750-218-SL/N*	**1.750**	+.000 -.002	1.750	2.125	0.218	1.750	+.000 -.002	2.125		0.241		17.61
BS18701750-218-SL/V	**1.750**		1.750	2.125	0.218	1.750		2.125		0.241		57.84
BS18702000-218-SL/N	**2.000**		2.000	2.375	0.218	2.000		2.375		0.241		21.18
BS18702000-218-SL/V*	**2.000**		2.000	2.375	0.218	2.000		2.375		0.241		66.11
BS21802500-240-SL/N*	**2.500**		2.500	2.937	0.240	2.500		2.937		0.264		23.87
BS21802500-240-SL/V*	**2.500**		2.500	2.937	0.240	2.500		2.937		0.264		77.75
BS21803000-240-SL/N*	**3.000**	+.000 -.003	3.000	3.437	0.240	3.000	+.000 -.003	3.437		0.264		28.64
BS21803000-240-SL/V	**3.000**		3.000	3.437	0.240	3.000		3.437		0.264		93.27
BS25003500-240-SL/N*	**3.500**	+.000 -.004	3.500	4.000	0.240	3.500	+.000 -.004	4.000	+.003 -.000	0.264		33.44
BS25003500-270-SL/N*	**3.500**		3.500	4.000	0.270	3.500		4.000		0.297		36.34
BS25003500-270-SL/V*	**3.500**		3.500	4.000	0.270	3.500		4.000		0.297		31.50
BS25004000-240-SL/N*	**4.000**		4.000	4.500	0.240	4.000		4.500		0.264		38.23
BS25004000-240-SL/V*	**4.000**		4.000	4.500	0.240	4.000		4.500		0.264		39.19
BS25004500-240-SL/N*	**4.500**		4.500	5.000	0.240	4.500		5.000		0.264		43.03
BS28105000-270-SL/N*	**5.000**		5.000	5.562	0.270	5.000		5.562		0.297		47.82

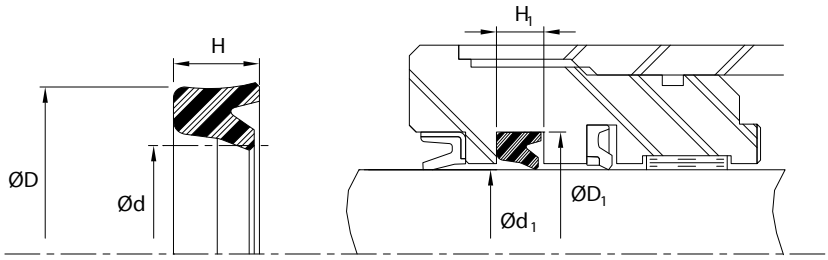
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
BS31205500-312-SL/N*	**5.500**	+.000/-.004	5.500	6.125	0.312	5.500	+.000/-.004	6.125	+.003/-.000	0.344	+.015/-.010	52.62

RU9 - Rod seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-31°F to +230°F (-35°C to +110°C)	≤5800 psi (≤400 bar)	< 1.6 ft/s (0.5 m/s)



Due to its special design, behind the dynamic seal lip, the **RU9-style** with its structure of slide segments interspersed by back-pumping channels features, excellent back-pumping ability across the entire pressure range. The dynamic seal slide segments also have a micro-structure with excellent tribological and sealing characteristics. As well as increasing the sealing ability of the RU9 rod seal, this also ensures a constant lubrication film underneath the seal sliding surface, reducing breakaway force even after prolonged periods of rest, and reduces dynamic friction force.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
UR18701125-312/RU9*	**1.125**	+.003 -.000	1.125	1.500	0.312	1.125	+.003 -.000	1.500	+.000 -.002	0.343	+.010 -.000	26.00
UR18701250-312/RU9*	**1.250**		1.250	1.625	0.312	1.250		1.625		0.343		26.25
UR18701375-312/RU9*	**1.375**		1.375	1.750	0.312	1.375		1.750		0.343		26.58
UR18701500-312/RU9*	**1.500**		1.500	1.875	0.312	1.500		1.875		0.343		26.85
UR25001500-375/RU9*	**1.500**	+.004 -.000	1.500	2.000	0.375	1.500	+.004 -.000	2.000		0.406		29.36
UR25001625-375/RU9*	**1.625**		1.625	2.125	0.375	1.625		2.125		0.406		29.81
UR18701750-312/RU9*	**1.750**		1.750	2.125	0.312	1.750		2.125		0.343		30.07
UR25001750-375/RU9*	**1.750**		1.750	2.250	0.375	1.750		2.250		0.406		30.26
UR25001875-375/RU9*	**1.875**		1.875	2.375	0.375	1.875		2.375		0.406		30.73
UR18702000-312/RU9*	**2.000**		2.000	2.375	0.312	2.000		2.375	+.000 -.003	0.343		28.06
UR25002000-375/RU9*	**2.000**		2.000	2.500	0.375	2.000		2.500		0.406		29.25

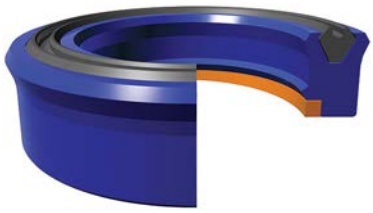
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RU9 series - AU 93A

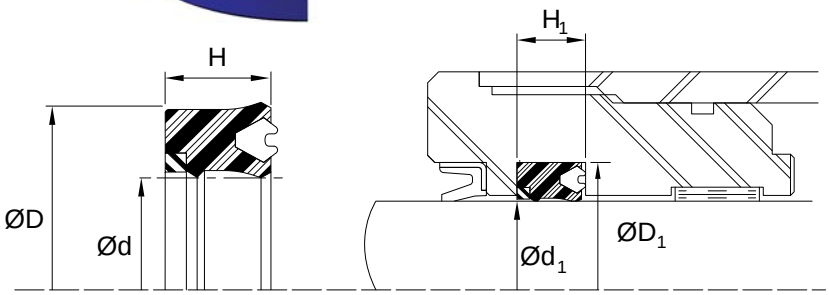
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
UR25002250-375/RU9*	**2.250**	+.004 -.000	2.250	2.750	0.375	2.250	+.004 -.000	2.750	+.000 -.003	0.406	+.010 -.000	29.99
UR18702500-312/RU9*	**2.500**		2.500	2.875	0.312	2.500		2.875		0.343		30.38
UR25002500-375/RU9*	**2.500**		2.500	3.000	0.375	2.500		3.000		0.406		34.09
UR25002625-375/RU9*	**2.625**		2.625	3.125	0.375	2.625		3.125		0.406		34.54
UR25002750-375/RU9*	**2.750**	+.005 -.000	2.750	3.250	0.375	2.750	+.005 -.000	3.250		0.406		35.00
UR25003000-375/RU9*	**3.000**		3.000	3.500	0.375	3.000		3.500		0.406		35.94
UR25003250-375/RU9	**3.250**		3.250	3.750	0.375	3.250		3.750		0.406		37.86
UR25003500-375/RU9*	**3.500**		3.500	4.000	0.375	3.500		4.000		0.406		44.86
UR25003750-375/RU9	**3.750**		3.750	4.250	0.375	3.750		4.250		0.406		49.30
UR25004000-375/RU9*	**4.000**		4.000	4.500	0.375	4.000		4.500		0.406		50.24

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Polyacetal/Nitrile	-50°F to +230°F (-46°C to +110°C)	≤7500 psi (≤517 bar)	< 1.5 ft/s (0.46 m/s)



This high-pressure rod seal incorporates both an acetal anti-extrusion ring for pressure protection as well as a unique profiled energizer to ensure lip loading in all conditions. Twin-lip design insures dry rod sealing and added stability in the housing.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

MAXIMUM EXTRUSION GAP			
The largest gap dimension appearing in operation on the non-pressurised side :			
Gap	Pressure	Gap	Pressure
0.040"	≤2400 psi (≤160 bar)	0.016"	≤7500 psi (≤500 bar)
0.032"	≤3750 psi (≤250 bar)	0.010"	≤10 000 psi (≤700 bar)
0.024"	≤6000 psi (≤400 bar)		

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RE18701250-250	**1.250**	+.000 -.002	1.250	1.625	0.250	1.250	+.000 -.002	1.625	+.002 -.000	0.275	+.015 -.000	20.62
RE18701250-312	**1.250**		1.250	1.625	0.312	1.250		1.625		0.343		21.00
RE25001375-375	**1.375**		1.375	1.875	0.375	1.375		1.875		0.413		25.94
RE18701500-250	**1.500**		1.500	1.875	0.250	1.500		1.875		0.275		26.14
RE18701500-312	**1.500**		1.500	1.875	0.312	1.500		1.875		0.343		26.14
RE25001500-375	**1.500**		1.500	2.000	0.375	1.500		2.000	+.003/-.000	0.413		28.62
RE18701750-250	**1.750**		1.750	2.125	0.250	1.750		2.125	+.002 -.000	0.275		27.96
RE18701750-375	**1.750**		1.750	2.125	0.375	1.750		2.125		0.413		28.08
RE25001750-375	**1.750**		1.750	2.250	0.375	1.750		2.250	+.003/-.000	0.413		31.62
RE18702000-375	**2.000**		2.000	2.375	0.375	2.000		2.375	+.002/-.000	0.413		31.62

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

621 series - AU/POM/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RE25002000-375	**2.000**	+.000 -.002	2.000	2.500	0.375	2.000	+.000 -.002	2.500	+.003 -.000	0.413	+.015 -.000	34.45
RE25002125-375	**2.125**		2.125	2.625	0.375	2.125		2.625		0.413		36.40
RE25002250-375	**2.250**		2.250	2.750	0.375	2.250		2.750		0.413		38.78
RE25002375-375	**2.375**		2.375	2.875	0.375	2.375		2.875		0.413		40.38
RE25002500-375	**2.500**		2.500	3.000	0.375	2.500		3.000		0.413		42.43
RE31202500-500	**2.500**	+.000/-.003	2.500	3.125	0.500	2.500	+.000/-.003	3.125		0.550		46.95
RE25002750-375	**2.750**	+.000 -.002	2.750	3.250	0.375	2.750	+.000 -.002	3.250		0.413		46.52
RE25003000-375	**3.000**		3.000	3.500	0.375	3.000		3.500		0.413		50.40
RE31203000-500	**3.000**	+.000 -.003	3.000	3.625	0.500	3.000	+.000 -.003	3.625		0.550		57.81
RE37503000-625	**3.000**		3.000	3.750	0.625	3.000		3.750		0.688		81.87
RE25003250-375	**3.250**		3.250	3.750	0.375	3.250		3.750		0.413		53.83
RE37503250-625*	**3.250**		3.250	4.000	0.625	3.250		4.000		0.688		78.82
RE25003500-375	**3.500**		3.500	4.000	0.375	3.500		4.000		0.413		58.00
RE31203500-500	**3.500**		3.500	4.125	0.500	3.500		4.125		0.550		67.21
RE37503500-625	**3.500**		3.500	4.250	0.625	3.500		4.250		0.688		93.33
RE25003625-375	**3.625**		3.625	4.125	0.375	3.500		4.125		0.413		58.16
RE18703750-375	**3.750**		3.750	4.125	0.375	3.750		4.125		0.413		64.40
RE25003750-375	**3.750**		3.750	4.250	0.375	3.750		4.250		0.413		61.50
RE25004000-375	**4.000**		4.000	4.500	0.375	4.000		4.500		0.413		64.99
RE25004000-562	**4.000**		4.000	4.500	0.562	4.000		4.500		0.618		70.46
RE31204000-375	**4.000**		4.000	4.625	0.375	4.000		4.625		0.413		72.91
RE31204000-500	**4.000**		4.000	4.625	0.500	4.000		4.625		0.550		69.29
RE31204000-562	**4.000**		4.000	4.625	0.562	4.000		4.625		0.618		76.53
RE37504000-625	**4.000**		4.000	4.750	0.625	4.000		4.750		0.688		104.87
RE37504250-625	**4.250**		4.250	5.000	0.625	4.250		5.000		0.688		98.09
RE25004500-375	**4.500**		4.500	5.000	0.375	4.500		5.000		0.413		77.42
RE25004500-562	**4.500**		4.500	5.000	0.562	4.500		5.000		0.618		77.42
RE31204500-375	**4.500**		4.500	5.125	0.375	4.500		5.125		0.413		92.09
RE31204500-625	**4.500**		4.500	5.125	0.625	4.500		5.125		0.688		85.23
RE37504500-625	**4.500**		4.500	5.250	0.625	4.500		5.250		0.688		114.60
RE37504750-375*	**4.750**		4.750	5.500	0.375	4.750		5.500		0.413		104.87
RE37504750-625*	**4.750**		4.750	5.500	0.625	4.750		5.500		0.688		108.70
RE25005000-562	**5.000**		5.000	5.500	0.562	5.000		5.500		0.618		88.18
RE31205000-625	**5.000**		5.000	5.625	0.625	5.000		5.625		0.688		98.94
RE37505000-625	**5.000**		5.000	5.750	0.625	5.000		5.750		0.688		125.46
RE37505250-625	**5.250**		5.250	6.000	0.625	5.250		6.000		0.688		122.14
RE25005500-562	**5.500**		5.500	6.000	0.562	5.500		6.000		0.618		103.24
RE31205500-375	**5.500**		5.500	6.125	0.375	5.500		6.125		0.413		122.14
RE37505750-625	**5.750**		5.750	6.500	0.625	5.750		6.500		0.688		118.80
RE25006000-562	**6.000**		6.000	6.500	0.562	6.000		6.500		0.618		113.72
RE37506000-625	**6.000**		6.000	6.750	0.625	6.000		6.750		0.688		146.89
RE37506250-625	**6.250**		6.250	7.000	0.625	6.250		7.000		0.688		127.61
RE37506500-500*	**6.500**		6.500	7.250	0.500	6.500		7.250		0.550		130.18
RE25006750-562	**6.750**		6.750	7.250	0.562	6.750		7.250		0.618		105.47
RE25007000-500*	**7.000**		7.000	7.500	0.500	7.000		7.500		0.550		141.98
RE31207000-562*	**7.000**		7.000	7.625	0.562	7.000		7.625		0.618		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RE37507000-562	**7.000**	+.000 -.003	7.000	7.750	0.562	7.000	+.000 -.003	7.750	+.003 -.000	0.618	+.015 -.000	156.88
RE37507000-625	**7.000**		7.000	7.750	0.625	7.000		7.750		0.688		200.47
RE25008000-562	**8.000**		8.000	8.500	0.562	8.000		8.500		0.618		150.88
RE37508000-625	**8.000**		8.000	8.750	0.625	8.000		8.750		0.688		238.62
RE37508500-625	**8.500**		8.500	9.250	0.625	8.500		9.250		0.688		326.74
RE37509000-625*	**9.000**		9.000	9.750	0.625	9.000		9.750		0.688		361.66
RE50009000-750*	**9.000**		9.000	10.000	0.750	9.000		10.000		0.825		410.87
RE25010000-562	**10.000**		10.000	10.500	0.562	10.000		10.500		0.618		280.32
RE37510000-625	**10.000**		10.000	10.750	0.625	10.000		10.750		0.688		277.30
RE50010000-750*	**10.000**		10.000	11.000	0.750	10.000		11.000		0.825		458.94
RE37511000-625*	**11.000**		11.000	11.750	0.625	11.000		11.750		0.688		447.86
RE37511500-500	**11.500**		11.500	12.250	0.500	11.500		12.250		0.531		484.55
RE50014500-750	**14.500**		14.500	15.500	0.750	14.500		15.500		0.825		584.63
RE50015000-750*	**15.000**		15.000	16.000	0.750	15.000		16.000		0.825		1038.55

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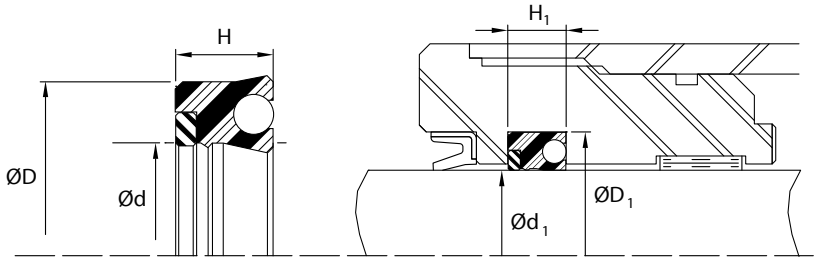


BD - Rod seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
30000 Polyurethane AU 94/Nyloil/Nitrile	-31°F to +250°F (-35°C to +121°C)	≤10 000 psi (≤689 bar)	< 1.6 ft/s (0.5 m/s)

/AE : with anti-extrusion ring



The **BD-style** profile is a non-symmetrical rod seal with a rectangular cross-section for stability in the gland. An O-ring energizer maintains sealing contact under low-pressure or vacuum conditions. Its beveled sealing lip effectively wipes fluid, while a secondary stabilizing lip improves fit and overall sealing performance. Made from durable urethane materials, this profile offers long life, extrusion resistance, low compression set, and reliable sealing even at zero pressure. It can be used as a standalone rod seal or paired with a buffer seal for demanding applications.

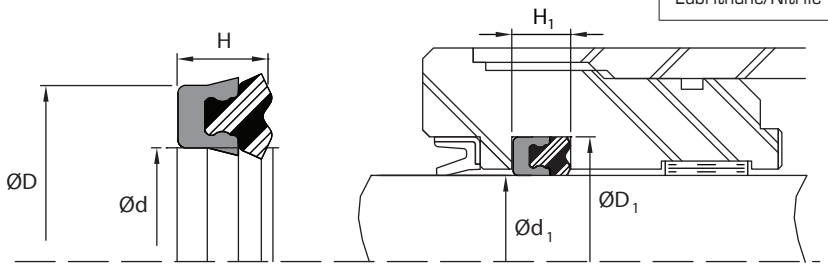
Alternate Materials : For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
BD37506500N625/AE	**6.500**	+.000 -.003	6.500	7.250	0.625	6.500	+.000 -.003	7.250	+.003 -.000	0.688	+.015 -.000	344.64
BD31207000N562/AE*	**7.000**		7.000	7.625	0.562	7.000		7.625		0.619		325.92
BD37507000N500*	**7.000**		7.000	7.750	0.500	7.000		7.750		0.550		311.92
BD50009000N687/AE	**9.000**		9.000	10.000	0.687	9.000		10.000		0.750		455.92
BD31210500N562/AE*	**10.500**		10.500	12.125	0.562	10.500		12.125		0.619		452.88
BD37511500N500/AE	**11.500**		11.500	12.250	0.500	11.500		12.250		0.550		506.00
BD50012000N750/AE	**12.000**		12.000	13.000	0.750	12.000		13.000		0.825		802.80
BD31213000N562/AE*	**13.000**		13.000	13.625	0.562	13.000		13.625		0.619		662.56
BD50013000N750/AE*	**13.000**		13.000	14.000	0.750	13.000		14.000		0.825		754.24
BD50013250N750/AE	**13.250**		13.250	14.250	0.750	13.250		14.250		0.825		1019.04
BD50014000N750/AE	**14.000**		14.000	15.000	0.750	14.000		15.000		0.825		1053.36
BD50014250N750/AE	**14.250**		14.250	15.250	0.750	14.250		15.250		0.825		1315.90
BD50014500N705/AE	**14.500**		14.500	15.500	0.705	14.500		15.500		0.780		1012.56
BD50014500N750/AE	**14.500**		14.500	15.500	0.750	14.500		15.500		0.825		1036.24
BD62514750N950/AE	**14.750**		14.750	16.000	0.950	14.750		16.000		1.045		1246.56

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-60°F to +210°F (-51°C to +99°C)	≤5800 psi (≤400 bar)	<3.3 ft/s (1 m/s)
Blue Lubrithane/Nitrile	-65°F to +250°F (-53°C to +121°C)	≤6000 psi (≤414 bar)	<3.3 ft/s (1 m/s)



DZ-style is considered a multiple lip seal. The primary knife-trimmed lip made of rubber offering excellent sealability and wiping action. It is snapped into a hard polyurethane base that offers both extrusion and wear resistance. This profile can be used as a stand alone rod seal. in tandem with a buffer seal. or as a unidirectional piston seal.

These seals are typically used on rod applications as shown on the chart below. For piston seal application, please contact us for the proper groove dimensions.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
DZ12501000-250	**1.000**	+.000 -.001	1.000	1.250	0.250	1.000	+.000 -.002	1.250	+.002 -.000	0.275	+.015 -.000	13.01
DZ12501250-250*	**1.250**		1.250	1.500	0.250	1.250		1.500		0.275		14.23
DZ18701250-312*	**1.250**	+.000 -.002	1.250	1.625	0.312	1.250	+.000 -.002	1.625	↓	0.344		16.40
DZ25001500-375	**1.500**		1.500	2.000	0.375	1.500		2.000	+.003/-.000	0.413		18.03
DZ18701750-375*	**1.750**		1.750	2.125	0.375	1.750		2.125	+.002/-.000	0.413		16.01
DZ25002000-375	**2.000**		2.000	2.500	0.375	2.000		2.500	+.003 -.000	0.413		23.60
DZ25002500-375	**2.500**		2.500	3.000	0.375	2.500		3.000		0.413		25.01
DZ25002500-375/B	**2.500**		2.500	3.000	0.375	2.500		3.000	↓	0.413		27.74
DZ37502625-625*	**2.625**		2.625	3.375	0.625	2.625		3.375	+.005/-.000	0.688		34.50
DZ25002750-375	**2.750**		2.750	3.250	0.375	2.750		3.250	+.003 -.000	0.413		27.23
DZ25003000-375	**3.000**		3.000	3.500	0.375	3.000		3.500		0.413		30.12
DZ25003000-375/B	**3.000**		3.000	3.500	0.375	3.000		3.500		0.413		27.74
DZ25003000-375/F	**3.000**		3.000	3.500	0.375	3.000		3.500		0.413		34.10
DZ25003000-562	**3.000**		3.000	3.500	0.562	3.000		3.500	↓	0.619		27.19
DZ31203000-500*	**3.000**		3.000	3.625	0.500	3.000		3.625	+.004/-.000	0.550		39.60
DZ37503000-625	**3.000**		3.000	3.750	0.625	3.000		3.750	+.005/-.000	0.688		37.28
DZ25003250-375/B	**3.250**		3.250	3.750	0.375	3.250		3.750	+.003 -.000	0.413		25.60
DZ25003500-375	**3.500**		3.500	4.000	0.375	3.500		4.000		0.413		38.01
DZ25003500-375/F	**3.500**		3.500	4.000	0.375	3.500		4.000	↓	0.413		39.60
DZ31203500-500/F	**3.500**		3.500	4.125	0.500	3.500		4.125	+.004/-.000	0.550		40.98
DZ37503500-625	**3.500**	↓	3.500	4.000	0.625	3.500	↓	4.000	+.005/-.000	0.688	↓	54.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

DZ series - LUBRITHANE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
DZ37503500-625/F*	**3.500**	+.000 -.002	3.500	4.000	0.625	3.500	+.000 -.002	4.000	+.005 -.000	0.688	+.015 -.000	55.90
DZ37503625-625	**3.625**		3.625	4.375	0.625	3.625		4.375		0.688		57.20
DZ25003750-562	**3.750**		3.750	4.250	0.562	3.750		4.250	+.003/-.000	0.619		70.21
DZ31203750-500/B	**3.750**		3.750	4.375	0.500	3.750		4.375	+.004 -.000	0.550		45.32
DZ31203750-625*	**3.750**		3.750	4.375	0.625	3.750		4.375		0.688		110.53
DZ25004000-375*	**4.000**		4.000	4.500	0.375	4.000		4.500	+.003 -.000	0.413		42.60
DZ25004000-562	**4.000**		4.000	4.500	0.562	4.000		4.500		0.619		49.60
DZ25004000-562/F	**4.000**		4.000	4.500	0.562	4.000		4.500		0.619		55.00
DZ37504000-625*	**4.000**		4.000	4.750	0.625	4.000		4.750	+.005/-.000	0.688		69.40
DZ25004500-562/F*	**4.500**		4.500	5.000	0.562	4.500		5.000	+.003 -.000	0.619		48.64
DZ25004750-375*	**4.750**		4.750	5.250	0.375	4.750		5.250		0.413		49.25
DZ25005000-562	**5.000**		5.000	5.500	0.562	5.000		5.500		0.619		50.23
DZ25005000-562/F	**5.000**		5.000	5.500	0.562	5.000		5.500		0.619		54.99
DZ31205000-562	**5.000**		5.000	5.625	0.562	5.000		5.625	+.004/-.000	0.619		109.22
DZ25005250-562*	**5.250**		5.250	5.750	0.562	5.250		5.750	+.003 -.000	0.619		70.00
DZ25005500-562/F*	**5.500**		5.500	6.000	0.562	5.500		6.000		0.619		71.22
DZ25006000-562	**6.000**		6.000	6.500	0.562	6.000		6.500		0.619		73.21
DZ25006000-562/F	**6.000**		6.000	6.500	0.562	6.000		6.500		0.619		79.20
DZ31206000-562	**6.000**		6.000	6.625	0.562	6.000		6.625	+.004/-.000	0.619		147.76
DZ37506000-625	**6.000**		6.000	6.750	0.625	6.000		6.750	+.005/-.000	0.688		74.20
DZ25006250-562*	**6.250**		6.250	6.750	0.562	6.250		6.750	+.003/-.000	0.619		62.48
DZ31206500-625*	**6.500**		6.500	7.125	0.625	6.500		7.125	+.004/-.000	0.688		119.48
DZ50006500-750*	**6.500**	+.000 -.003	6.500	7.500	0.750	6.500	+.000 -.003	7.500	+.007 -.000	0.825		82.71
DZ50006500-750/AE-R*	**6.500**		6.500	7.500	0.750	6.500		7.500		0.825		174.21
DZ25006750-562	**6.750**	+.000 -.002	6.750	7.250	0.562	6.750	+.000 -.002	7.250	+.003 -.000	0.619		84.10
DZ25007000-562/F	**7.000**		7.000	7.500	0.562	7.000		7.500		0.619		66.72
DZ31207000-562	**7.000**		7.000	7.625	0.562	7.000		7.625	+.004 -.000	0.619		247.10
DZ31207000-562/AE	**7.000**		7.000	7.625	0.562	7.000		7.625		0.619		325.80
DZ37507000-625*	**7.000**		7.000	7.750	0.625	7.000		7.750	+.005/-.000	0.688		84.30
DZ50007000-750	**7.000**	+.000 -.003	7.000	8.000	0.750	7.000	+.000 -.003	8.000	+.007 -.000	0.825		88.48
DZ50007000-750/AE*	**7.000**		7.000	8.000	0.750	7.000		8.000		0.825		214.45
DZ50007000-750/R*	**7.000**		7.000	8.000	0.750	7.000		8.000		0.825		156.44
DZ25007500-562/F*	**7.500**	+.000 -.002	7.500	8.000	0.562	7.500	+.000 -.002	8.000	+.003/-.000	0.619		71.08
DZ31207625-590/AE-B*	**7.625**		7.625	8.250	0.590	7.625		8.250	+.004/-.000	0.650		425.30
DZ25007750-562/VPTFE*	**7.750**		7.750	8.250	0.562	7.750		8.250	+.003 -.000	0.619		463.33
DZ25008000-562*	**8.000**		8.000	8.500	0.562	8.000		8.500		0.619		85.21
DZ25008000-562/F	**8.000**		8.000	8.500	0.562	8.000		8.500		0.619		89.01
DZ50008000-750	**8.000**	+.000/-.003	8.000	9.000	0.750	8.000	+.000/-.003	9.000	+.007/-.000	0.825		149.20
DZ25008125-562	**8.125**	+.000 -.002	8.125	8.625	0.562	8.125	+.000 -.002	8.625	+.003 -.000	0.619		78.89
DZ25008125-562/F*	**8.125**		8.125	8.625	0.562	8.125		8.625		0.619		98.35
DZ31208500-562	**8.500**		8.500	9.125	0.562	8.500		9.125	+.004/-.000	0.619		284.70
DZ37509000-625/F	**9.000**		9.000	9.750	0.625	9.000		9.750	+.005/-.000	0.688		124.01
DZ50009000-750	**9.000**	+.000/-.003	9.000	10.000	0.750	9.000	+.000/-.003	10.000	+.007/-.000	0.825		169.40
DZ37509375-625/F*	**9.375**	+.000 -.002	9.375	10.125	0.625	9.375	+.000 -.002	10.125	+.005/-.000	0.688		122.61
DZ31209500-562	**9.500**		9.500	10.125	0.562	9.500		10.125	+.004/-.000	0.619		398.10
DZ25009750-562*	**9.750**		9.750	10.250	0.562	9.750		10.250	+.003/-.000	0.619		94.12

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Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
DZ25010000-562/F*	**10.000**	+.000 -.002	10.000	10.500	0.562	10.000	+.000 -.002	10.500	+.003/-.000	0.619	+.015 -.000	192.32
DZ37510000-625/F*	**10.000**		10.000	10.750	0.625	10.000		10.750	+.005/-.000	0.688		177.54
DZ50010000-750/AE	**10.000**	+.000 -.003	10.000	11.000	0.750	10.000	+.000 -.003	11.000	+.007 -.000	0.825		468.25
DZ50010000-750/AE-B	**10.000**		10.000	11.000	0.750	10.000		11.000		0.825		519.36
DZ31210500-562	**10.500**	+.000 -.002	10.500	11.125	0.562	10.500	+.000 -.002	11.125	+.003 -.000	0.619		374.87
DZ31210500-562/AE	**10.500**		10.500	11.125	0.562	10.500		11.125		0.619		425.60
DZ31211375-590/AE-B*	**11.375**	↓	11.375	12.000	0.590	11.375	↓	12.000	↓	0.650	↓	899.50
DZ31211750-562	**11.750**		11.750	12.375	0.562	11.750		12.375		0.619		1080.20
DZ50012000-750*	**12.000**	+.000 -.003	12.000	13.000	0.750	12.000	+.000 -.003	13.000	+.007 -.000	0.825		516.96
DZ50012000-750/AE*	**12.000**		12.000	13.000	0.750	12.000		13.000		0.825		609.08
DZ50012000-750/AE-B	**12.000**	↓	12.000	13.000	0.750	12.000	↓	13.000	↓	0.825	↓	877.00
DZ37512500-625/F*	**12.500**	+.000 -.002	12.500	13.250	0.625	12.500	+.000 -.002	13.250	+.005/-.000	0.688		331.80
DZ31213000-562/AE-B	**13.000**		13.000	13.625	0.562	13.000		13.625	+.004/-.000	0.619		701.60
DZ50013000-750*	**13.000**	+.000 -.003	13.000	14.000	0.750	13.000	+.000 -.003	14.000	+.007 -.000	0.825		775.70
DZ50013000-750/AE-B	**13.000**		13.000	14.000	0.750	13.000		14.000		0.825		970.00
DZ50013250-750/AE-B*	**13.250**	↓	13.250	14.250	0.750	13.250	↓	14.250	↓	0.825	↓	1432.25
DZ37514000-625*	**14.000**	+.000/-.002	14.000	14.750	0.625	14.000	+.000/-.002	14.750	+.005/-.000	0.688		287.08
DZ50014000-750/AE-B	**14.000**	+.000/-.003	14.000	15.000	0.750	14.000	+.000/-.003	15.000	+.007/-.000	0.825		1525.36
DZ31214125-800/AE-B*	**14.125**	+.000/-.002	14.125	14.750	0.800	14.125	+.000/-.002	14.750	+.004/-.000	0.880		1076.20
DZ50015500-750/AE-B	**15.500**	+.000 -.003	15.500	16.500	0.750	15.500	+.000 -.003	16.500	+.007 -.000	0.825		1698.90
DZ50015750-750/AE-B	**15.750**		15.750	16.750	0.750	15.750		16.750		0.825		1701.26
DZ50016625-750/AE-B*	**16.625**	↓	16.625	17.625	0.750	16.625	↓	17.625	↓	0.825	↓	1787.40
DZ75017625-1125/AE-B*	**17.625**	+.000/-.004	17.625	19.125	1.125	17.625	+.000/-.004	19.125	+.008/-.000	1.238	↓	2048.30

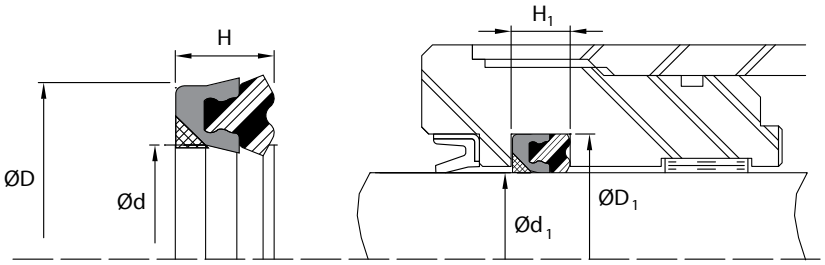
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



DZR - Rod seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Lubrithane/nitrile/ polyamide	-76°F to +250°F (-60°C to +120°C)	≤10 000 psi (≤689 bar)	<3.3 ft/s (1 m/s)



Similar to the **DZ-style**, the **DZR-style** combine a nitrile primary sealing ring, a Lubrithane secondary sealing ring and a triangular polyamide anti-extrusion ring into one seal. These combinations provide good low temperature resilience, and improved resistance to deformation, wear, and gap extrusion.

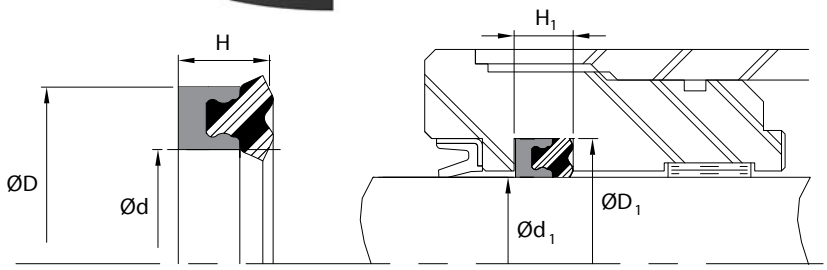
Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
25002250-375DZR	**2.250**	+.002 -.000	2.250	2.750	0.375	2.250	+.002 -.000	2.750	+.000 -.003	0.413	+.000 -.010	84.60
25002625-375DZR*	**2.625**		2.625	3.125	0.375	2.625		3.125		0.413		125.40
37503625-625DZR*	**3.625**		3.625	4.375	0.625	3.625		4.375	+.000/-.005	0.688		137.20
31204000-500DZR*	**4.000**		4.000	4.625	0.500	4.000		4.625	+.000 -.003	0.550		140.24
25004500-375DZR*	**4.500**		4.500	5.000	0.375	4.500		5.000		0.413		210.24
37505250-625DZR*	**5.250**		5.250	6.000	0.625	5.250		6.000	+.000 -.005	0.688		214.25
37505500-625DZR*	**5.500**		5.500	6.250	0.625	5.500		6.250		0.688		179.32
37506000-625DZR*	**6.000**		6.000	6.750	0.625	6.000		6.750		0.688		217.44
50006000-750DZR*	**6.000**	+.003/-.000	6.000	7.000	0.750	6.000	+.003/-.000	7.000	+.000/-.007	0.825		294.58
37506500-625DZR*	**6.500**	+.002 -.000	6.500	7.250	0.625	6.500	+.002 -.000	7.250	+.000 -.005	0.688		289.38
37506750-625DZR*	**6.750**		6.750	7.500	0.625	6.750		7.500		0.688		275.56
37507000-625DZR/F	**7.000**		7.000	7.750	0.625	7.000		7.750		0.688		274.20
37507000-625DZR*	**7.000**		7.000	7.750	0.625	7.000		7.750		0.688		399.45
37508000-625DZR	**8.000**		8.000	8.750	0.625	8.000		8.750		0.688		374.60
50008000-750DZR	**8.000**	+.003 -.000	8.000	9.000	0.750	8.000	+.003 -.000	9.000	+.000 -.007	0.825		324.02
50008500-750DZR	**8.500**		8.500	9.500	0.750	8.500		9.500		0.825		375.20
25009000-562DZR/F*	**9.000**	+.002/-.000	9.000	9.500	0.562	9.000	+.002/-.000	9.500	+.000/-.003	0.618		435.78
50009000-750DZR*	**9.000**	+.003/-.000	9.000	10.000	0.750	9.000	+.003/-.000	10.000	+.000/-.007	0.825		526.80
37511000-625DZR*	**11.000**	+.003 -.000	11.000	11.750	0.625	11.000	+.003 -.000	11.750	+.000 -.005	0.688		575.71
37512000-625DZR*	**12.000**		12.000	12.750	0.625	12.000		12.750		0.688		604.44

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Lubrithane/ Nitrile	-60°F to +250°F (-51°C to +121°C)	≤6000 psi (≤414 bar)	<3.3 ft/s (1 m/s)



ZA-style is a tandem-material. compression-type seal combines the low-pressure sealing ability of the rubber lip with the extrusion resistant heel portion. The lip and heel portions are mechanically held together and offer the benefits of both rubber and polyurethane materials in a compact design.

These seals are typically used on rod applications as shown on the chart below. For piston seal application, please contact us for the proper groove dimensions.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
ZA12501250-250	**1.250**	+.000 -.002	1.250	1.500	0.250	1.250	+.000 -.002	1.500	+.003 -.000	0.275	+.010 -.000	15.87
ZA18701500-375/F	**1.500**		1.500	1.875	0.375	1.500		1.875		0.413		20.76
ZA25001500-375	**1.500**		1.500	2.000	0.375	1.500		2.000		0.413		21.49
ZA25002000-375	**2.000**		2.000	2.500	0.375	2.000		2.500		0.413		25.52
ZA25002500-375	**2.500**		2.500	3.000	0.375	2.000		3.000		0.413		31.61
ZA25003000-375	**3.000**		3.000	3.500	0.375	3.000		3.500		0.413		37.31
ZA25003000-375/F*	**3.000**		3.000	3.500	0.375	3.000		3.500		0.413		44.35
ZA25003500-375	**3.500**		3.500	4.000	0.375	3.500		4.000		0.413		42.63
ZA25004000-375	**4.000**		4.000	4.500	0.375	4.000		4.500		0.413		49.74
ZA25004000-562	**4.000**		4.000	4.500	0.562	4.000		4.500		0.619		50.71
ZA25004500-562	**4.500**		4.500	5.000	0.562	4.500		5.000		0.619		51.67
ZA25004625-562	**4.625**		4.625	5.125	0.562	4.625		5.125		0.619		60.74
ZA25005000-562	**5.000**		5.000	5.500	0.562	5.000		5.500		0.619		62.08
ZA25007000-562*	**7.000**		7.000	7.500	0.562	7.000		7.500		0.619		60.74
ZA25008000-562*	**8.000**		8.000	8.500	0.562	8.000		8.500		0.619		80.67
ZA37502250-625*	**2.250**		2.250	3.000	0.625	2.250		3.000		0.688		35.81
ZA37503000-625	**3.000**		3.000	3.750	0.625	3.000		3.750	+.005 -.000	0.688		40.75
ZA37504000-625	**4.000**		4.000	4.750	0.625	4.000		4.750		0.688		68.53
ZA37504500-625*	**4.500**		4.500	5.250	0.625	4.500		5.250		0.688		77.41
ZA37504750-625*	**4.750**		4.750	5.500	0.625	4.750		5.500		0.688		64.07
ZA37505000-625	**5.000**		5.000	5.750	0.625	5.000		5.750		0.688		75.74
ZA37506000-562*	**6.000**		6.000	6.750	0.562	6.000		6.750		0.619		105.00
ZA37506000-625	**6.000**		6.000	6.750	0.625	6.000		6.750		0.688		101.28

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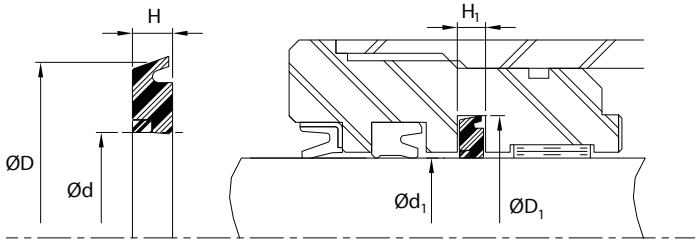
ZA series - LUBRITHANE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
ZA37506250-500*	**6.250**	+.000 -.002	6.250	7.000	0.500	6.250	+.000 -.002	7.000	+.005 -.000	0.550	+.010 -.000	129.41
ZA37507000-625*	**7.000**	↓	7.000	7.750	0.625	7.000	↓	7.750	↓	0.688	↓	89.05
ZA37512000-625*	**12.000**	↓	12.000	12.750	0.625	12.000	↓	12.750	↓	0.688	↓	176.19

BR - Buffer seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Polyacetal	-65°F to +275°F (-54°C to +135°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)



The **BR-style** is designed to be used as a buffer seal alongside a secondary U-Cup type seal. This profile provides the majority of the sealing while protecting the secondary seal; it also incorporates a flexible static side lip and slotted pedestals to allow for a check-valve function, thus avoiding the risk of pressure-trapping.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
BR-01000*	**1.000**	+.000 -.001	1.000	1.374	0.187	1.000	+.000 -.001	1.374	+.008 -.000	0.206	+.010 -.000	O/R
BR-01125*	**1.125**	↓	1.125	1.499	0.187	1.125	↓	1.499	↓	0.206	↓	O/R
BR-01250	**1.250**	↓	1.250	1.812	0.135	1.250	↓	1.812	↓	0.149	↓	22.22
BR-01250-1	**1.250**	↓	1.250	1.624	0.187	1.250	↓	1.624	↓	0.206	↓	21.27
BR-01375	**1.375**	↓	1.375	1.749	0.187	1.375	↓	1.749	↓	0.206	↓	27.99
BR-01500	**1.500**	+.000 -.002	1.500	2.063	0.135	1.500	+.000 -.002	2.063	↓	0.149	↓	25.72
BR-01500-1	**1.500**	↓	1.500	2.000	0.250	1.500	↓	2.000	↓	0.275	↓	32.34
BR-01750	**1.750**	↓	1.750	2.315	0.135	1.750	↓	2.315	↓	0.149	↓	28.55
BR-01750-1	**1.750**	↓	1.750	2.250	0.250	1.750	↓	2.250	↓	0.275	↓	35.17
BR-02000	**2.000**	↓	2.000	2.563	0.135	2.000	↓	2.563	↓	0.149	↓	31.77
BR-02000-1	**2.000**	↓	2.000	2.500	0.250	2.000	↓	2.500	↓	0.275	↓	38.43
BR-02250	**2.250**	↓	2.250	2.925	0.229	2.250	↓	2.925	↓	0.252	↓	69.82

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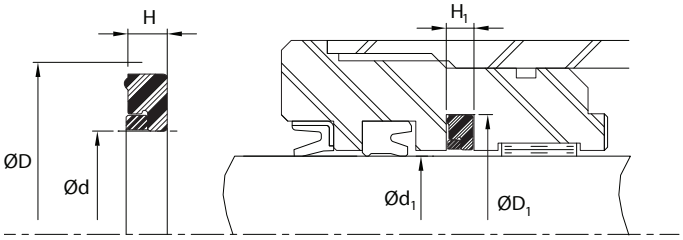
BR series - AU 90A/POM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
BR-02500	**2.500**	+.000 -.002	2.500	3.173	0.229	2.500	+.000 -.002	3.173	+.008 -.000	0.252	+.010 -.000	76.46
BR-02500-1	**2.500**		2.500	3.000	0.250	2.500		3.000		0.275		47.61
BR-02750	**2.750**		2.750	3.397	0.229	2.750		3.397		0.252		83.45
BR-03000	**3.000**	+.000/-.003	3.000	3.646	0.229	3.000	+.000/-.003	3.646		0.252		92.38
BR-03000-1	**3.000**	+.000/-.002	3.000	3.500	0.250	3.000	+.000/-.002	3.500		0.275		56.18
BR-03500	**3.500**	+.000 -.003	3.500	4.165	0.229	3.500	+.000 -.003	4.165		0.252		74.16
BR-03500-1*	**3.500**		3.500	4.000	0.250	3.500		4.000		0.275		71.51
BR-03750	**3.750**		3.750	4.250	0.250	3.750		4.250		0.275		69.07
BR-04000	**4.000**	+.000 -.005	4.000	4.665	0.229	4.000	+.000 -.005	4.665		0.252		80.39
BR-04000-1	**4.000**		4.000	4.624	0.312	4.000		4.624		0.343		73.09
BR-04250	**4.250**		4.250	4.750	0.250	4.250		4.750		0.275		94.72
BR-04250-1*	**4.250**		4.250	4.865	0.250	4.250		4.865		0.275		80.28
BR-04250-2*	**4.250**		4.250	4.875	0.312	4.250		4.875		0.343		146.49
BR-04500*	**4.500**		4.500	5.124	0.312	4.500		5.124		0.343		O/R
BR-05000	**5.000**		5.000	5.830	0.325	5.000		5.830		0.358		105.07
BR-05500	**5.500**		5.500	6.250	0.375	5.500		6.250		0.412		160.63

BR-653 - Buffer seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Polyacetal	- 50 °F to + 230 °F (- 46 °C to + 110 °C)	≤ 10 000 psi (≤ 689 bar)	< 3 ft/s (0.9 m/s)



The **653-style** single-acting rod buffer seal works with a high-performance rod seal to protect it from shock loads and high-frequency pressure spikes. It allows normal oil flow while blocking sudden surges and lets pressure return to prevent trap¬ping. Designed for heavy-duty use, it fits standard PTFE buffer seal housings and helps extend system life.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
BR-01250/653*	**1.250**	+.000/-.003	1.250	1.674	0.166	1.250	+.000/-.003	1.674	+.003/-.003	0.166	+.010 -.000	O/R
BR-02000/653	**2.000**	+.000/-.004	2.000	2.424	0.166	2.000	+.000/-.004	2.424	+.004/-.004	0.166		10.68

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

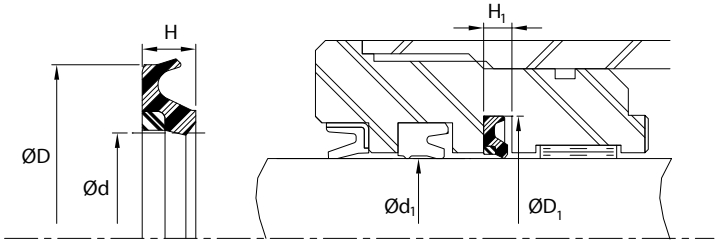
BR-653 series - AU/POM

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
BR-02500/653	**2.500**	+.000 -.004	2.500	2.924	0.166	2.500	+.000 -.004	2.924	+.000 -.004	0.166	+.010 -.000	10.90
BR-02750/653*	**2.750**	↓	2.750	3.174	0.166	2.750	↓	3.174	↓	0.166	↓	13.94
BR-03000/653	**3.000**	↓	3.000	3.616	0.247	3.000	↓	3.616	↓	0.247	↓	23.01
BR-03500/653	**3.500**	+.000 -.005	3.500	4.116	0.247	3.500	+.000 -.005	4.116	↓	0.247	↓	35.99
BR-04000/653	**4.000**	↓	4.000	4.616	0.247	4.000	↓	4.616	↓	0.247	↓	20.28
BR-07000/653*	**7.000**	+.000 -.006	7.000	7.616	0.247	7.000	+.000 -.006	7.616	+.000 -.006	0.247	↓	O/R
BR-08000/653*	**8.000**	↓	8.000	8.610	0.247	8.000	↓	8.610	↓	0.247	↓	O/R
BR-08500/653*	**8.500**	↓	8.500	9.116	0.247	8.500	↓	9.116	↓	0.247	↓	127.77
BR-12000/653*	**12.000**	+.000/-.007	12.000	12.950	0.319	12.000	+.000/-.007	12.950	+.000/-.007	0.319	↓	O/R

HBY - Buffer seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Polyacetal	- 40 °F to + 230 °F (- 40 °C to + 110 °C)	≤ 8000 psi (≤ 552 bar)	< 1.6 ft/s (0.5 m/s)



The **HBY-style** rod seals are used as buffer rings along with secondary U-Cup type seals. The anti-extrusion ring protects the rod sealing area from pressure spikes and the notched lip allows a pumping-back action suppressing any pressure-trap effect.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
HBY-01250	**1.250**	+.000 -.003	1.250	1.812	0.125	1.250	+.000 -.003	1.813	+.007/-.000	0.140	+.015 -.000	19.42
HBY-01500	**1.500**	↓	1.500	2.062	0.125	1.500	↓	2.062	+.008 -.000	0.140	↓	22.39
HBY-01750	**1.750**	↓	1.750	2.312	0.125	1.750	↓	2.313	↓	0.140	↓	26.41
HBY-02000	**2.000**	↓	2.000	2.562	0.125	2.000	↓	2.563	↓	0.140	↓	28.44
HBY-02250	**2.250**	↓	2.250	2.937	0.187	2.250	↓	2.938	↓	0.234	↓	31.48
HBY-02500	**2.500**	↓	2.500	3.187	0.187	2.500	↓	3.188	↓	0.234	↓	37.03
HBY-02750	**2.750**	↓	2.750	3.375	0.187	2.750	↓	3.375	+.009 -.000	0.234	↓	40.26
HBY-03000	**3.000**	+.000 -.004	3.000	3.625	0.187	3.000	+.000 -.004	3.625	↓	0.234	↓	40.45
HBY-03500	**3.500**	↓	3.500	4.187	0.187	3.500	↓	4.188	↓	0.234	↓	45.92

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

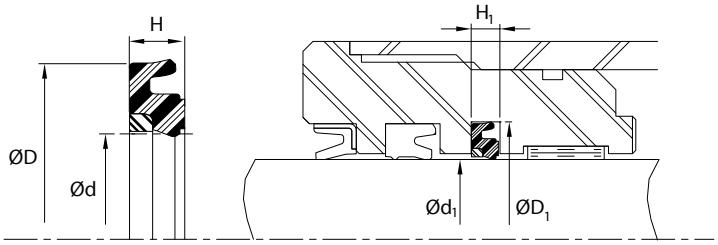
HBY series - AU 94A/POM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
HBY-04000	**4.000**	+.000 -.004	4.000	4.625	0.187	4.000	+.000 -.004	4.625	+.009 -.000	0.234	+.015 -.000	52.46
HBY-09000/30K*	**9.000**		9.000	10.000	0.500	9.000		10.000		0.550		314.31

RBS - Buffer seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Polyacetal	-75°F to +265°F (-60°C to +130°C)	≤10 000 psi (≤689 bar)	< 3.3 ft/s (1 m/s)



The **RBS-style** seals are polyurethane U-cup buffer seals that have a polyurethane sealing ring that incorporates a polyamide or polyacetal anti-extrusion ring. The flexible outside static sealing lip and notches in the front face safeguard that pressure can return to the system side of the buffer and prevent build-up of pressure between the rod and buffer seals. These profiles are suitable for extreme pressure peaks and demanding workloads in heavy duty applications.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
RBS-02000/3*	**2.000**	+.000 -.003	2.000	2.616	0.235	2.000	+.000 -.003	2.616	+.005/-.000	0.252	+.010 -.000	54.39
RBS-02250/2*	**2.250**		2.250	2.674	0.143	2.250		2.674	+.004 -.000	0.166		54.39
RBS-02500/2*	**2.500**		2.500	2.924	0.143	2.500		2.924		0.166		54.39
RBS-02500/3	**2.500**		2.500	3.116	0.235	2.500		3.116	+.005 -.000	0.252		54.39
RBS-02750/3	**2.750**	+.000 -.004	2.750	3.366	0.235	2.750	+.000 -.004	3.366		0.252		45.07
RBS-03000/3	**3.000**		3.000	3.616	0.235	3.000		3.616		0.252		63.62
RBS-03250/3*	**3.250**		3.250	3.866	0.235	3.250		3.866		0.252		67.84
RBS-03500/3*	**3.500**		3.500	4.116	0.235	3.500		4.116		0.252		71.12
RBS-03750/3	**3.750**		3.750	4.366	0.235	3.750		4.366		0.252		85.43
RBS-04000/3	**4.000**		4.000	4.616	0.235	4.000		4.616		0.252		89.42
RBS-04250/3*	**4.250**		4.250	4.866	0.235	4.250		4.866		0.252		96.97
RBS-04500/3	**4.500**		4.500	5.116	0.235	4.500		5.116		0.252		111.20

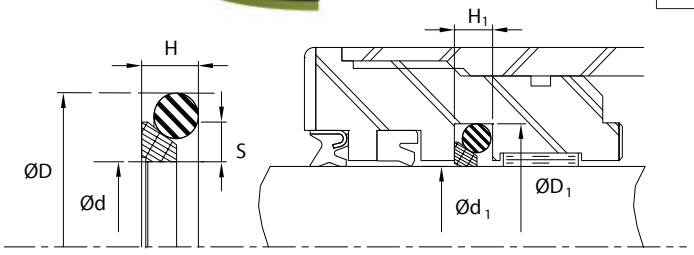
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RBS series - AU 93A/POM

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
RBS-04750/3*	**4.750**	+.000 -.004	4.750	5.366	0.235	4.750	+.000 -.004	5.366	+.005 -.000	0.252	+.010 -.000	114.81
RBS-05000/3	**5.000**		5.000	5.616	0.235	5.000		5.616		0.252		118.28
RBS-05250/3*	**5.250**		5.250	5.866	0.235	5.250		5.866		0.252		115.41
RBS-05500/3*	**5.500**		5.500	6.116	0.235	5.500		6.116		0.252		115.41
RBS-05750/3*	**5.750**		5.750	6.366	0.235	5.750		6.366		0.252		108.62
RBS-06000/3	**6.000**		6.000	6.616	0.235	6.000		6.616		0.252		108.62
RBS-06250/3*	**6.250**		6.250	6.866	0.235	6.250		6.866		0.252		108.62
RBS-06500/3*	**6.500**		6.500	7.116	0.235	6.500		7.116		0.252		120.18
RBS-06750/3*	**6.750**		6.750	7.366	0.235	6.750		7.366		0.252		125.56
RBS-07000/3*	**7.000**		7.000	7.616	0.235	7.000		7.616		0.252		129.97
RBS-07250/3*	**7.250**		7.250	7.866	0.235	7.250		7.866		0.252		131.57
RBS-07500/3*	**7.500**		7.500	8.116	0.235	7.500		8.116		0.252		134.38
RBS-07750/3*	**7.750**		7.750	8.366	0.235	7.750		8.366		0.252		137.74
RBS-08000/3	**8.000**		8.000	8.616	0.235	8.000		8.616		0.252		139.43

RDB - Buffer seals - Inch





Standard Materials	Temperature Range	Pressure Range	Surface Speed
Nitrile/Nyloil	-40°F to +230°F (-40°C to +110°C)	≤10 000 psi (≤689 bar)	< 3.3 ft/s (1 m/s)

This Buffer seals protect rod seals in heavy duty hydraulic cylinders from pressure fluctuations and system contaminants, thereby extending the life of the sealing system.

Features:
- Shifting prevented by axial bias
- Low cost O'Ring expander
- Reverse free-flow grooves in conical face

Benefits:
- Improved system life
- Better customer value
- Universal primary seal for wide range of heavy duty cylinder applications

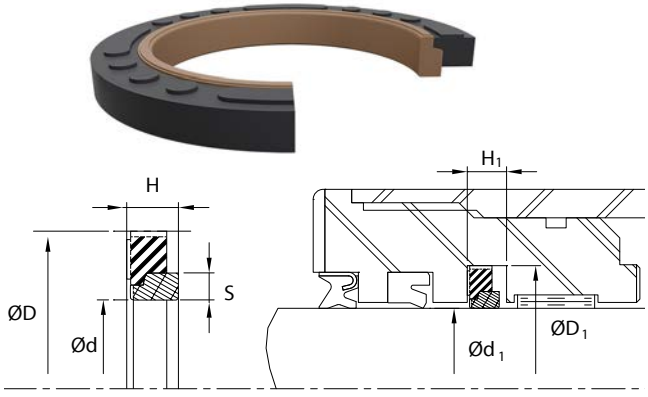
Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
RDB-02375/CAT*	**2.375**	+.000 -.002	2.375	3.020	0.210	2.375	+.000 -.002	3.020	+.003 -.000	0.220	+.004 -.004	53.65
RDB-02750/CAT*	**2.750**		2.750	3.390	0.210	2.750		3.390		0.220		58.25

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
RDB-03250/3*	**3.250**	+.000/-.003	3.250	3.844	0.240	3.250	+.000/-.003	3.844	+.003 -.000	0.252	+.004 -.004	61.20
RDB-04000/CAT*	**4.000**	+.000 -.005	4.000	4.640	0.210	4.000	+.000 -.005	4.640		0.220		67.06
RDB-04500/3	**4.500**		4.500	5.094	0.240	4.500		5.094	+.004 -.000	0.252		128.14
RDB-06000/4*	**6.000**		6.000	6.807	0.310	6.000		6.807		0.323		139.85
RDB-07000/3	**7.000**		7.000	7.594	0.240	7.000		7.594		0.252		142.60
RDB-08000/4*	**8.000**		8.000	8.807	0.310	8.000		8.807		0.323		237.93
RDB-09000/4*	**9.000**		9.000	9.807	0.310	9.000		9.807		0.323		236.20
RDB-14000/KOM	**14.000**	+.000 -.006	14.000	14.750	0.330	14.000	+.000 -.006	14.750	+.006 -.000	0.343		323.70
RDB-15750/KOM	**15.750**		15.750	16.500	0.315	15.750		16.500		0.325		345.60

SR3 - Buffer seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
PTFE/Nitrile	-40°F to +250°F (-40°C to +120°C)	≤5800 psi (≤400 bar)	< 3.3 ft/s (1 m/s)
Nyloil/Nitrile	-40°F to +230°F (-40°C to +110°C)	≤7500 psi (≤517 bar)	< 3.3 ft/s (1 m/s)

SR3-style is buffer seals incorporating slide rings and have a nitrile rubber energizer and a PTFE slide ring. The energizer is designed to hold the slide ring in the proper and permanent sealing position against the rod seal side of the housing. **SR3-style** patented design prevents any axials shifting of the slide ring. Therefore, these profiles protect the rod seal in applications where conventional buffers are not sufficient. In combination with grooves in the energizer outside diameter and notches in the front face of the slide ring, the protrusions also safeguard that pressure can return to the system side.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

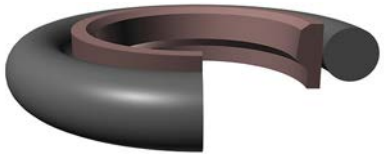
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
SR3-05000*	**5.000**	+.004 -.000	5.000	5.616	0.240	5.000	+.004 -.000	5.616	+.005 -.000	0.247	+.010 -.000	158.30
SR3-07000*	**7.000**		7.000	7.616	0.240	7.000		7.616		0.247		172.68
SR3-07000/NYL	**7.000**		7.000	7.616	0.240	7.000		7.616		0.247		249.76
SR3-07625/NYL	**7.625**		7.625	8.241	0.240	7.625		8.241		0.247		265.20
SR3-08500*	**8.500**		8.500	9.116	0.240	8.500		9.116		0.247		285.60
SR3-10500/NYL	**10.500**		10.500	11.116	0.240	10.500		11.116		0.247		271.20
SR3-11375/NYL	**11.375**		11.375	11.991	0.240	11.375		11.991		0.247		301.13

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

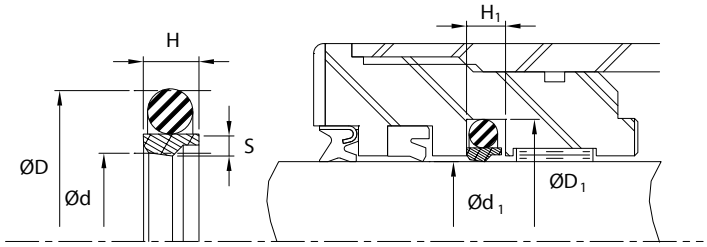
SR3 series - PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
SR3-13000/NYL	**13.000**	+.005 -.000	13.000	13.616	0.240	13.000	+.005 -.000	13.616	+.005 -.000	0.247	+.010 -.000	302.60
SR3-14125/NYL	**14.125**		14.125	14.741	0.240	14.125		14.741		0.247		383.16

RSS - Buffer seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-30°F to +250°F (-34°C to +121°C)	≤5800 psi (≤400 bar)	< 13 ft/s (4 m/s)



The **RSS-style** seals may be used as primary (buffer-type) seals along with a secondary U-Cup type seal or in a tandem application with itself. A dual-material type seal. the dynamic sealing element offers a low-friction environment while the elastomeric static ring insures proper pre-loading of the seal assembly.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-00312/0*	**0.312**	+.000 -.001	0.312	0.505	0.079	0.312	+.000 -.001	0.505	+.003 -.000	0.090	+.004 -.004	20.15
RSS-00312/1*	**0.312**		0.312	0.599	0.114	0.312		0.599		0.130		20.15
RSS-00312/2*	**0.312**		0.312	0.733	0.153	0.312		0.733	+.004/-.000	0.169		20.15
RSS-00375/0*	**0.375**		0.375	0.568	0.079	0.375		0.568	+.003 -.000	0.090		20.15
RSS-00375/1*	**0.375**		0.375	0.662	0.114	0.375		0.662		0.130		20.15
RSS-00375/2*	**0.375**		0.375	0.796	0.153	0.375		0.796	+.004/-.000	0.169		20.15
RSS-00437/0*	**0.437**		0.437	0.630	0.079	0.437		0.630	+.003 -.000	0.090		20.15
RSS-00437/1*	**0.437**		0.437	0.724	0.114	0.437		0.724		0.130		20.15
RSS-00437/2*	**0.437**		0.437	0.858	0.153	0.437		0.858	+.004/-.000	0.169		20.15
RSS-00500/0*	**0.500**		0.500	0.693	0.079	0.500		0.693	+.003 -.000	0.090		20.15
RSS-00500/1*	**0.500**		0.500	0.787	0.114	0.500		0.787		0.130		20.15
RSS-00500/2*	**0.500**		0.500	0.921	0.153	0.500		0.921	+.004/-.000	0.169		20.15
RSS-00562/0*	**0.562**		0.562	0.755	0.079	0.562		0.755	+.003 -.000	0.090		20.15
RSS-00562/1*	**0.562**		0.562	0.849	0.114	0.562		0.849		0.130		20.15

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Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-00562/2*	**0.562**	+.000 -.001	0.562	0.983	0.153	0.562	+.000 -.001	0.983	+.004/-.000	0.169	+.004 -.004	20.15
RSS-00625/0*	**0.625**		0.625	0.818	0.079	0.625		0.818	+.003 -.000	0.090		20.15
RSS-00625/1*	**0.625**		0.625	0.912	0.114	0.625		0.912		0.130		20.15
RSS-00625/2*	**0.625**		0.625	1.046	0.153	0.625		1.046	+.004/-.000	0.169		20.15
RSS-00687/0*	**0.687**		0.687	0.880	0.079	0.687		0.880	+.003 -.000	0.090		20.15
RSS-00687/1*	**0.687**		0.687	0.974	0.114	0.687		0.974		0.130		20.15
RSS-00687/2*	**0.687**		0.687	1.108	0.153	0.687		1.108	+.004/-.000	0.169		20.15
RSS-00750/1	**0.750**		0.750	1.037	0.114	0.750		1.037	+.003/-.000	0.130		22.29
RSS-00750/2*	**0.750**		0.750	1.171	0.153	0.750		1.171	+.004/-.000	0.169		22.29
RSS-00750/3*	**0.750**		0.750	1.344	0.232	0.750		1.344	+.005/-.000	0.252		22.29
RSS-00812/1*	**0.812**		0.812	1.099	0.114	0.812		1.099	+.003/-.000	0.130		22.29
RSS-00812/2*	**0.812**		0.812	1.233	0.153	0.812		1.233	+.004/-.000	0.169		22.29
RSS-00812/3*	**0.812**		0.812	1.406	0.232	0.812		1.406	+.005/-.000	0.252		22.29
RSS-00875/1	**0.875**		0.875	1.162	0.114	0.875		1.162	+.003/-.000	0.130		22.29
RSS-00875/2	**0.875**		0.875	1.296	0.153	0.875		1.296	+.004/-.000	0.169		22.29
RSS-00875/3*	**0.875**		0.875	1.469	0.232	0.875		1.469	+.005/-.000	0.252		22.29
RSS-00937/1*	**0.937**		0.937	1.224	0.114	0.937		1.224	+.003/-.000	0.130		22.29
RSS-00937/2*	**0.937**		0.937	1.358	0.153	0.937		1.358	+.004/-.000	0.169		22.29
RSS-00937/3*	**0.937**		0.937	1.531	0.232	0.937		1.531	+.005/-.000	0.252		22.29
RSS-01000/1	**1.000**		1.000	1.287	0.114	1.000		1.287	+.003/-.000	0.130		21.23
RSS-01000/2	**1.000**		1.000	1.421	0.153	1.000		1.421	+.004/-.000	0.169		10.80
RSS-01000/3*	**1.000**		1.000	1.594	0.232	1.000		1.594	+.005/-.000	0.252		21.24
RSS-01062/1*	**1.062**		1.062	1.349	0.114	1.062		1.349	+.003/-.000	0.130		21.70
RSS-01062/2*	**1.062**		1.062	1.483	0.153	1.062		1.483	+.004/-.000	0.169		21.70
RSS-01062/3*	**1.062**		1.062	1.656	0.232	1.062		1.656	+.005/-.000	0.252		21.70
RSS-01125/1	**1.125**		1.125	1.412	0.114	1.125		1.412	+.003/-.000	0.130		21.70
RSS-01125/2	**1.125**		1.125	1.546	0.153	1.125		1.546	+.004/-.000	0.169		21.70
RSS-01125/3*	**1.125**		1.125	1.719	0.232	1.125		1.719	+.005/-.000	0.252		21.70
RSS-01187/1*	**1.187**		1.187	1.474	0.114	1.187		1.474	+.003/-.000	0.130		25.46
RSS-01187/2*	**1.187**		1.187	1.608	0.153	1.187		1.608	+.004/-.000	0.169		25.46
RSS-01187/3*	**1.187**		1.187	1.781	0.232	1.187		1.781	+.005/-.000	0.252		25.46
RSS-01250/1	**1.250**		1.250	1.537	0.114	1.250		1.537	+.003/-.000	0.130		25.24
RSS-01250/2	**1.250**		1.250	1.671	0.153	1.250		1.671	+.004/-.000	0.169		26.86
RSS-01250/3*	**1.250**		1.250	1.844	0.232	1.250		1.844	+.005/-.000	0.252		26.85
RSS-01312/1*	**1.312**		1.312	1.599	0.114	1.312		1.599	+.003/-.000	0.130		26.85
RSS-01312/2*	**1.312**		1.312	1.733	0.153	1.312		1.733	+.004/-.000	0.169		26.85
RSS-01312/3*	**1.312**		1.312	1.906	0.232	1.312		1.906	+.005/-.000	0.252		26.85
RSS-01375/1	**1.375**		1.375	1.662	0.114	1.375		1.662	+.003/-.000	0.130		29.35
RSS-01375/2	**1.375**		1.375	1.796	0.153	1.375		1.796	+.004/-.000	0.169		29.33
RSS-01375/3*	**1.375**		1.375	1.969	0.232	1.375		1.969	+.005/-.000	0.252		29.35
RSS-01437/1*	**1.437**		1.437	1.724	0.114	1.437		1.724	+.003/-.000	0.130		29.35
RSS-01437/2*	**1.437**		1.437	1.858	0.153	1.437		1.858	+.004/-.000	0.169		29.35
RSS-01437/3*	**1.437**		1.437	2.031	0.232	1.437		2.031	+.005 -.000	0.252		29.35
RSS-01500/1	**1.500**		1.500	1.787	0.114	1.500		1.787		0.130		24.62
RSS-01500/2	**1.500**	+.000 -.002	1.500	1.921	0.153	1.500	+.000 -.002	1.921	+.004/-.000	0.169		29.33
RSS-01500/3	**1.500**		1.500	2.094	0.232	1.500		2.094	+.005/-.000	0.252		18.93

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RSS series - BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-01500/4*	**1.500**	+.000 -.002	1.500	2.307	0.299	1.500	+.000 -.002	2.307	+.006/-.000	0.323	+.004 -.004	29.35
RSS-01562/2*	**1.562**		1.562	1.983	0.153	1.562		1.983	+.004/-.000	0.169		29.35
RSS-01562/3*	**1.562**		1.562	2.156	0.232	1.562		2.156	+.005/-.000	0.252		29.35
RSS-01562/4*	**1.562**		1.562	2.369	0.299	1.562		2.369	+.006/-.000	0.323		29.35
RSS-01625/2*	**1.625**		1.625	2.046	0.153	1.625		2.046	+.004/-.000	0.169		29.35
RSS-01625/3*	**1.625**		1.625	2.219	0.232	1.625		2.219	+.005/-.000	0.252		29.35
RSS-01625/4*	**1.625**		1.625	2.432	0.299	1.625		2.432	+.006/-.000	0.323		29.35
RSS-01687/2*	**1.687**		1.687	2.108	0.153	1.687		2.108	+.004/-.000	0.169		30.21
RSS-01687/3*	**1.687**		1.687	2.281	0.232	1.687		2.281	+.005/-.000	0.252		30.21
RSS-01687/4*	**1.687**		1.687	2.494	0.299	1.687		2.494	+.006/-.000	0.323		30.21
RSS-01750/1*	**1.750**		1.750	2.037	0.114	1.750		2.037	+.005/-.000	0.130		#N/A
RSS-01750/2	**1.750**		1.750	2.171	0.153	1.750		2.171	+.004/-.000	0.169		30.62
RSS-01750/3	**1.750**		1.750	2.344	0.232	1.750		2.344	+.005/-.000	0.252		31.34
RSS-01750/4*	**1.750**		1.750	2.557	0.299	1.750		2.557	+.006/-.000	0.323		33.99
RSS-01812/2*	**1.812**		1.812	2.233	0.153	1.812		2.233	+.004/-.000	0.169		33.99
RSS-01812/3*	**1.812**		1.812	2.406	0.232	1.812		2.406	+.005/-.000	0.252		33.99
RSS-01812/4*	**1.812**		1.812	2.619	0.299	1.812		2.619	+.006/-.000	0.323		33.99
RSS-01875/2*	**1.875**		1.875	2.296	0.153	1.875		2.296	+.004/-.000	0.169		26.28
RSS-01875/3*	**1.875**		1.875	2.469	0.232	1.875		2.469	+.005/-.000	0.252		33.99
RSS-01875/4*	**1.875**		1.875	2.682	0.299	1.875		2.682	+.006/-.000	0.323		33.99
RSS-01937/2*	**1.937**		1.937	2.358	0.153	1.937		2.358	+.004/-.000	0.169		36.04
RSS-01937/3*	**1.937**		1.937	2.531	0.232	1.937		2.531	+.005/-.000	0.252		36.04
RSS-01937/4*	**1.937**		1.937	2.744	0.299	1.937		2.744	+.006/-.000	0.323		36.04
RSS-02000/2	**2.000**		2.000	2.421	0.153	2.000		2.421	+.004/-.000	0.169		32.96
RSS-02000/3	**2.000**		2.000	2.594	0.232	2.000		2.594	+.005/-.000	0.252		35.48
RSS-02000/4	**2.000**		2.000	2.807	0.299	2.000		2.807	+.006/-.000	0.323		36.04
RSS-02125/2*	**2.125**		2.125	2.546	0.153	2.125		2.546	+.006/-.000	0.169		34.83
RSS-02125/3	**2.125**		2.125	2.719	0.232	2.125		2.719	+.005/-.000	0.252		36.04
RSS-02125/4*	**2.125**		2.125	2.932	0.299	2.125		2.932	+.006/-.000	0.323		36.04
RSS-02250/2	**2.250**		2.250	2.671	0.153	2.250		2.671	+.004/-.000	0.169		36.84
RSS-02250/3	**2.250**		2.250	2.844	0.232	2.250		2.844	+.005/-.000	0.252		36.84
RSS-02250/4*	**2.250**		2.250	3.057	0.299	2.250		3.057	+.006/-.000	0.323		36.84
RSS-02375/2*	**2.375**		2.375	2.796	0.153	2.375		2.796	+.004/-.000	0.169		38.69
RSS-02375/3*	**2.375**		2.375	2.969	0.232	2.375		2.969	+.005/-.000	0.252		38.69
RSS-02375/4*	**2.375**		2.375	3.182	0.299	2.375		3.182	+.006/-.000	0.323		38.69
RSS-02500/2	**2.500**		2.500	2.921	0.153	2.500		2.921	+.004/-.000	0.169		33.21
RSS-02500/3	**2.500**		2.500	3.094	0.232	2.500		3.094	+.005/-.000	0.252		46.02
RSS-02500/4	**2.500**		2.500	3.307	0.299	2.500		3.307	+.006/-.000	0.323		46.00
RSS-02625/2*	**2.625**		2.625	3.046	0.153	2.625		3.046	+.004/-.000	0.169		46.00
RSS-02625/3	**2.625**		2.625	3.219	0.232	2.625		3.219	+.005/-.000	0.252		44.36
RSS-02625/4*	**2.625**		2.625	3.432	0.299	2.625		3.432	+.006/-.000	0.323		46.00
RSS-02750/2	**2.750**		2.750	3.171	0.153	2.750		3.171	+.004/-.000	0.169		46.00
RSS-02750/3	**2.750**		2.750	3.344	0.232	2.750		3.344	+.005/-.000	0.252		38.13
RSS-02750/4	**2.750**		2.750	3.557	0.299	2.750		3.557	+.006/-.000	0.323		46.00
RSS-02875/2*	**2.875**		2.875	3.296	0.153	2.875		3.296	+.004/-.000	0.169		46.00
RSS-02875/3*	**2.875**		2.875	3.469	0.232	2.875		3.469	+.005/-.000	0.252		46.00

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-02875/4*	**2.875**	+.000/-.002	2.875	3.682	0.299	2.875	+.000/-.002	3.682	+.006/-.000	0.323	+.004 -.004	46.00
RSS-03000/2	**3.000**	+.000 -.003	3.000	3.421	0.153	3.000	+.000 -.005	3.421	+.004/-.000	0.169		43.22
RSS-03000/3	**3.000**		3.000	3.594	0.232	3.000		3.594	+.005 -.000	0.252		53.87
RSS-03000/3-NYL	**3.000**		3.000	3.594	0.232	3.000		3.594		0.252		46.00
RSS-03000/4	**3.000**		3.000	3.807	0.299	3.000		3.807	+.006/-.000	0.323		46.00
RSS-03125/2*	**3.125**		3.125	3.546	0.153	3.125		3.546	+.004/-.000	0.169		46.00
RSS-03125/3*	**3.125**		3.125	3.719	0.232	3.125		3.719	+.005/-.000	0.252		46.00
RSS-03125/4*	**3.125**		3.125	3.932	0.299	3.125		3.932	+.006/-.000	0.323		46.00
RSS-03250/2	**3.250**		3.250	3.671	0.153	3.250		3.671	+.004/-.000	0.169		54.37
RSS-03250/3	**3.250**		3.250	3.844	0.232	3.250		3.844	+.005 -.000	0.252		54.36
RSS-03250/3-NYL*	**3.250**		3.250	3.844	0.232	3.250		3.844		0.252		49.34
RSS-03250/4	**3.250**		3.250	4.057	0.299	3.250		4.057	+.006/-.000	0.323		54.37
RSS-03375/2*	**3.375**		3.375	3.796	0.153	3.375		3.796	+.004/-.000	0.169		54.37
RSS-03375/3*	**3.375**		3.375	3.969	0.232	3.375		3.969	+.005/-.000	0.252		54.37
RSS-03375/4*	**3.375**		3.375	4.182	0.299	3.375		4.182	+.006/-.000	0.323		54.37
RSS-03500/2	**3.500**		3.500	3.921	0.153	3.500		3.921	+.004/-.000	0.169		54.37
RSS-03500/3	**3.500**		3.500	4.094	0.232	3.500		4.094	+.005/-.000	0.252		54.91
RSS-03500/4	**3.500**		3.500	4.307	0.299	3.500		4.307	+.006/-.000	0.323		60.33
RSS-03625/2*	**3.625**		3.625	4.046	0.153	3.625		4.046	+.004/-.000	0.169		60.33
RSS-03625/3	**3.625**		3.625	4.219	0.232	3.625		4.219	+.005/-.000	0.252		60.33
RSS-03625/4*	**3.625**		3.625	4.432	0.299	3.625		4.432	+.004/-.000	0.323		60.33
RSS-03750/2*	**3.750**		3.750	4.171	0.153	3.750		4.171	+.006/-.000	0.169		63.35
RSS-03750/3	**3.750**		3.750	4.344	0.232	3.750		4.344	+.005/-.000	0.252		71.51
RSS-03750/4	**3.750**		3.750	4.557	0.299	3.750		4.557	+.006/-.000	0.323		71.52
RSS-03875/2*	**3.875**		3.875	4.296	0.153	3.875		4.296	+.004/-.000	0.169		67.91
RSS-03875/3*	**3.875**		3.875	4.469	0.232	3.875		4.469	+.005/-.000	0.252		67.91
RSS-03875/4*	**3.875**		3.875	4.682	0.299	3.875		4.682	+.006/-.000	0.323		67.91
RSS-04000/2	**4.000**		4.000	4.421	0.153	4.000		4.421	+.004/-.000	0.169		67.91
RSS-04000/3	**4.000**	+.000 -.005	4.000	4.594	0.232	4.000	+.000 -.005	4.594	+.005/-.000	0.252		75.69
RSS-04000/4	**4.000**		4.000	4.807	0.299	4.000		4.807	+.006/-.000	0.323		69.06
RSS-04125/2*	**4.125**		4.125	4.546	0.153	4.125		4.546	+.004/-.000	0.169		71.52
RSS-04125/3*	**4.125**		4.125	4.719	0.232	4.125		4.719	+.005/-.000	0.252		71.52
RSS-04125/4*	**4.125**		4.125	4.932	0.299	4.125		4.932	+.006/-.000	0.323		71.52
RSS-04250/2	**4.250**		4.250	4.671	0.153	4.250		4.671	+.004/-.000	0.169		71.52
RSS-04250/3	**4.250**		4.250	4.844	0.232	4.250		4.844	+.005/-.000	0.252		71.52
RSS-04250/4*	**4.250**		4.250	5.057	0.299	4.250		5.057	+.006/-.000	0.323		71.52
RSS-04375/2*	**4.375**		4.375	4.796	0.153	4.375		4.796	+.004/-.000	0.169		79.81
RSS-04375/3*	**4.375**		4.375	4.969	0.232	4.375		4.969	+.005/-.000	0.252		79.81
RSS-04375/4*	**4.375**		4.375	5.182	0.299	4.375		5.182	+.006/-.000	0.323		79.81
RSS-04500/2	**4.500**		4.500	4.921	0.153	4.500		4.921	+.004/-.000	0.169		82.38
RSS-04500/3	**4.500**		4.500	5.094	0.232	4.500		5.094	+.005 -.000	0.252		94.10
RSS-04500/3-NYL*	**4.500**		4.500	5.094	0.232	4.500		5.094		0.252		82.38
RSS-04500/4	**4.500**		4.500	5.307	0.299	4.500		5.307	+.006/-.000	0.323		90.17
RSS-04625/2*	**4.625**		4.625	5.046	0.153	4.625		5.046	+.004/-.000	0.169		90.17
RSS-04625/3*	**4.625**		4.625	5.219	0.232	4.625		5.219	+.005/-.000	0.252		90.17
RSS-04625/4*	**4.625**		4.625	5.432	0.299	4.625		5.432	+.006/-.000	0.323		90.17

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RSS series - BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-04750/2*	**4.750**	+.000 -.005	4.750	5.171	0.153	4.750	+.000 -.005	5.171	+.004/-.000	0.169	+.004 -.004	97.16
RSS-04750/3	**4.750**		4.750	5.344	0.232	4.750		5.344	+.005/-.000	0.252		97.16
RSS-04750/4	**4.750**		4.750	5.557	0.299	4.750		5.557	+.006/-.000	0.323		97.16
RSS-04875/2*	**4.875**		4.875	5.296	0.153	4.875		5.296	+.004/-.000	0.169		97.16
RSS-04875/3*	**4.875**		4.875	5.469	0.232	4.875		5.469	+.005/-.000	0.252		97.16
RSS-04875/4*	**4.875**		4.875	5.682	0.299	4.875		5.682	+.006/-.000	0.323		97.16
RSS-05000/2	**5.000**		5.000	5.421	0.153	5.000		5.421	+.004/-.000	0.169		100.09
RSS-05000/3	**5.000**		5.000	5.594	0.232	5.000		5.594	+.005/-.000	0.252		100.09
RSS-05000/4	**5.000**		5.000	5.807	0.299	5.000		5.807	+.006/-.000	0.323		100.79
RSS-05125/2*	**5.125**		5.125	5.546	0.153	5.125		5.546	+.004/-.000	0.169		100.79
RSS-05125/3*	**5.125**		5.125	5.719	0.232	5.125		5.719	+.005/-.000	0.252		100.79
RSS-05125/4*	**5.125**		5.125	5.932	0.299	5.125		5.932	+.006 -.000	0.323		100.79
RSS-05187/ATCO	**5.187**		5.187	5.781	0.271	5.187		5.781		0.291		123.85
RSS-05187/ATCO-NYL	**5.187**		5.187	5.781	0.271	5.187		5.781		0.291		71.28
RSS-05250/2*	**5.250**		5.250	5.671	0.153	5.250		5.671	+.004/-.000	0.169		100.79
RSS-05250/3	**5.250**		5.250	5.844	0.232	5.250		5.844	+.005/-.000	0.252		100.79
RSS-05250/4*	**5.250**		5.250	6.057	0.299	5.250		6.057	+.006/-.000	0.323		100.79
RSS-05375/2*	**5.375**		5.375	5.796	0.153	5.375		5.796	+.004/-.000	0.169		100.79
RSS-05375/3*	**5.375**		5.375	5.969	0.232	5.375		5.969	+.005/-.000	0.252		100.79
RSS-05375/4*	**5.375**		5.375	6.182	0.299	5.375		6.182	+.006/-.000	0.323		100.79
RSS-05500/2	**5.500**		5.500	5.921	0.153	5.500		5.921	+.004/-.000	0.169		100.79
RSS-05500/3	**5.500**		5.500	6.094	0.232	5.500		6.094	+.005/-.000	0.252		106.31
RSS-05500/4*	**5.500**		5.500	6.307	0.299	5.500		6.307	+.006/-.000	0.323		106.31
RSS-05625/2*	**5.625**		5.625	6.046	0.153	5.625		6.046	+.004/-.000	0.169		106.31
RSS-05625/3*	**5.625**		5.625	6.219	0.232	5.625		6.219	+.005/-.000	0.252		106.31
RSS-05625/4*	**5.625**		5.625	6.432	0.299	5.625		6.432	+.006/-.000	0.323		106.31
RSS-05750/2*	**5.750**		5.750	6.171	0.153	5.750		6.171	+.004/-.000	0.169		106.31
RSS-05750/3	**5.750**		5.750	6.344	0.232	5.750		6.344	+.005/-.000	0.252		95.76
RSS-05750/4	**5.750**		5.750	6.557	0.299	5.750		6.557	+.006/-.000	0.323		95.75
RSS-06000/2*	**6.000**		6.000	6.421	0.153	6.000		6.421	+.004/-.000	0.169		95.76
RSS-06000/3	**6.000**		6.000	6.594	0.232	6.000		6.594	+.005/-.000	0.252		91.92
RSS-06000/4	**6.000**		6.000	6.807	0.299	6.000		6.807	+.006/-.000	0.323		95.72
RSS-06250/2	**6.250**		6.250	6.671	0.153	6.250		6.671	+.004/-.000	0.169		114.45
RSS-06250/3*	**6.250**		6.250	6.844	0.232	6.250		6.844	+.005/-.000	0.252		114.45
RSS-06250/4*	**6.250**		6.250	7.057	0.299	6.250		7.057	+.006/-.000	0.323		114.45
RSS-06500/2*	**6.500**		6.500	6.921	0.153	6.500		6.921	+.004/-.000	0.169		114.45
RSS-06500/3*	**6.500**		6.500	7.094	0.232	6.500		7.094	+.005/-.000	0.252		47.87
RSS-06500/4	**6.500**		6.500	7.307	0.299	6.500		7.307	+.006/-.000	0.323		114.45
RSS-06750/2*	**6.750**		6.750	7.171	0.153	6.750		7.171	+.004/-.000	0.169		114.45
RSS-06750/3	**6.750**		6.750	7.344	0.232	6.750		7.344	+.005/-.000	0.252		114.45
RSS-06750/4	**6.750**		6.750	7.557	0.299	6.750		7.557	+.006/-.000	0.323		118.65
RSS-07000/2*	**7.000**		7.000	7.421	0.153	7.000		7.421	+.004/-.000	0.169		114.45
RSS-07000/3	**7.000**		7.000	7.594	0.232	7.000		7.594	+.005/-.000	0.252		110.01
RSS-07000/4	**7.000**		7.000	7.807	0.299	7.000		7.807	+.006/-.000	0.323		129.81
RSS-07250/2*	**7.250**		7.250	7.671	0.153	7.250		7.671	+.004/-.000	0.169		132.85
RSS-07250/3	**7.250**		7.250	7.844	0.232	7.250		7.844	+.005/-.000	0.252		132.85

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

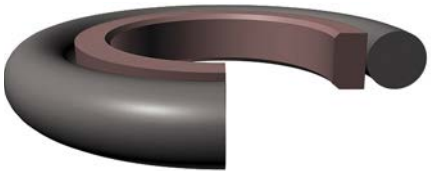
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-07250/4*	**7.250**	+.000 -.005	7.250	8.057	0.299	7.250	+.000 -.005	8.057	+.006/-.000	0.323	+.004 -.004	132.85
RSS-07500/2*	**7.500**		7.500	7.921	0.153	7.500		7.921	+.004/-.000	0.169		145.40
RSS-07500/3	**7.500**		7.500	8.094	0.232	7.500		8.094	+.005/-.000	0.252		145.40
RSS-07500/4	**7.500**		7.500	8.307	0.299	7.500		8.307	+.006/-.000	0.323		145.40
RSS-07750/2*	**7.750**		7.750	8.171	0.153	7.750		8.171	+.004/-.000	0.169		145.40
RSS-07750/3*	**7.750**		7.750	8.344	0.232	7.750		8.344	+.005/-.000	0.252		145.40
RSS-07750/4*	**7.750**		7.750	8.557	0.299	7.750		8.557	+.006/-.000	0.323		145.40
RSS-08000/3*	**8.000**		8.000	8.594	0.232	8.000		8.594	+.005/-.000	0.252		148.59
RSS-08000/4	**8.000**		8.000	8.807	0.299	8.000		8.807	+.006 -.000	0.323		148.59
RSS-08000/5	**8.000**		8.000	8.945	0.299	8.000		8.945		0.323		148.59
RSS-08250/3*	**8.250**		8.250	8.844	0.232	8.250		8.844	+.005/-.000	0.252		160.25
RSS-08250/4	**8.250**		8.250	9.057	0.299	8.250		9.057	+.006 -.000	0.323		190.74
RSS-08250/5*	**8.250**		8.250	9.195	0.299	8.250		9.195		0.323		160.25
RSS-08500/3	**8.500**		8.500	9.094	0.232	8.500		9.094	+.005/-.000	0.252		160.25
RSS-08500/4	**8.500**		8.500	9.307	0.299	8.500		9.307	+.006 -.000	0.323		160.25
RSS-08500/5*	**8.500**		8.500	9.445	0.299	8.500		9.445		0.323		160.25
RSS-08750/3*	**8.750**		8.750	9.344	0.232	8.750		9.344	+.005/-.000	0.252		168.25
RSS-08750/4	**8.750**		8.750	9.557	0.299	8.750		9.557	+.006 -.000	0.323		168.25
RSS-08750/5*	**8.750**		8.750	9.695	0.299	8.750		9.695		0.323		168.25
RSS-09000/3	**9.000**		9.000	9.594	0.232	9.000		9.594	+.005/-.000	0.252		132.06
RSS-09000/4	**9.000**		9.000	9.807	0.299	9.000		9.807	+.006 -.000	0.323		132.05
RSS-09000/5*	**9.000**		9.000	9.945	0.299	9.000		9.945		0.323		166.58
RSS-09250/3*	**9.250**		9.250	9.844	0.232	9.250		9.844	+.005/-.000	0.252		184.10
RSS-09250/4	**9.250**		9.250	10.057	0.299	9.250		10.057	+.006 -.000	0.323		184.10
RSS-09250/5*	**9.250**		9.250	10.195	0.299	9.250		10.195		0.323		184.10
RSS-09500/3*	**9.500**		9.500	10.094	0.232	9.500		10.094	+.005/-.000	0.252		184.10
RSS-09500/4	**9.500**		9.500	10.307	0.299	9.500		10.307	+.006 -.000	0.323		184.10
RSS-09500/5*	**9.500**		9.500	10.445	0.299	9.500		10.445		0.323		184.10
RSS-09750/3*	**9.750**		9.750	10.344	0.232	9.750		10.344	+.005/-.000	0.252		218.04
RSS-09750/4*	**9.750**		9.750	10.557	0.299	9.750		10.557	+.006 -.000	0.323		218.04
RSS-09750/5*	**9.750**		9.750	10.695	0.299	9.750		10.695		0.323		218.04
RSS-10000/3*	**10.000**		10.000	10.594	0.232	10.000		10.594		0.252		179.68
RSS-10000/4	**10.000**		10.000	10.807	0.299	10.000		10.807		0.323		218.04
RSS-10000/4-NYL	**10.000**		10.000	10.807	0.299	10.000		10.807		0.323		125.16
RSS-10000/5	**10.000**		10.000	10.945	0.299	10.000		10.945		0.323		218.04
RSS-10000/8*	**10.000**		10.000	11.075	0.350	10.000		11.075		0.378		199.51
RSS-10250/4*	**10.250**		10.250	11.057	0.299	10.250		11.057		0.323		275.42
RSS-10500/4	**10.500**		10.500	11.307	0.299	10.500		11.307		0.323		275.42
RSS-10750/4*	**10.750**		10.750	11.557	0.299	10.750		11.557		0.323		275.42
RSS-11000/4	**11.000**		11.000	11.807	0.299	11.000		11.807		0.323		275.42
RSS-11250/4*	**11.250**		11.250	12.057	0.299	11.250		12.057		0.323		275.42
RSS-11500/4	**11.500**		11.500	12.307	0.299	11.500		12.307		0.323		275.42
RSS-11750/4*	**11.750**		11.750	12.557	0.299	11.750		12.557		0.323		275.42
RSS-12000/4	**12.000**		12.000	12.807	0.299	12.000		12.807		0.323		275.42
RSS-12000/4-NYL*	**12.000**		12.000	12.807	0.299	12.000		12.807		0.323		113.09
RSS-12500/5	**12.500**		12.500	13.445	0.299	12.500		13.445		0.323		330.85

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

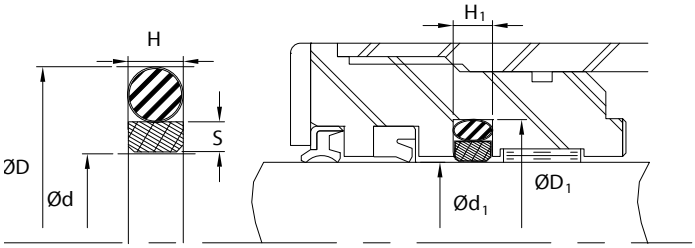
RSS series - BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-13000/4-NYL*	**13.000**	+.000 -.005	13.000	13.807	0.299	13.000	+.000 -.005	13.807	+.006 -.000	0.323	+.004 -.004	118.31
RSS-14000/4-NYL*	**14.000**		14.000	14.807	0.299	14.000		14.807		0.323		173.75
RSS-14000/5*	**14.000**		14.000	14.945	0.299	14.000		14.945		0.323		328.20
RSS-14500/4*	**14.500**		14.500	15.307	0.299	14.500		15.307		0.323		336.08
RSS-14500/5*	**14.500**		14.500	15.445	0.299	14.500		15.445		0.323		336.08
RSS-14750/4*	**14.500**		14.500	15.557	0.299	14.500		15.557		0.323		370.28
RSS-15500/5*	**15.500**		15.500	16.445	0.299	15.500		16.445		0.323		337.33
RSS-15750/4*	**15.750**		15.750	15.557	0.299	15.750		15.557		0.323		386.61
RSS-15750/5	**15.750**		15.750	16.695	0.299	15.750		16.695		0.323		360.59
RSS-18500/5*	**18.500**		18.500	19.445	0.299	18.500		19.445		0.323		469.79

R2B - Buffer seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-30°F to +250°F (-34°C to +121°C)	≤5800 psi (≤400 bar)	< 13 ft/s (4 m/s)



This design can be used either as a low-to-medium duty rod seal on hydraulic actuators or as a secondary seal used alongside of a **RSS-type** seal. The PTFE-based cap and standard-sized O'Ring loader insure good wear resistance and long cycle life.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
R2B-00312/0*	**0.312**	+.000 -.001	0.312	0.505	0.090	0.312	+.000 -.001	0.505	+.002/-.000	0.090	+.004 -.004	25.04
R2B-00312/1*	**0.312**		0.312	0.599	0.114	0.312		0.599	+.003/-.000	0.130		25.04
R2B-00375/0*	**0.375**		0.375	0.568	0.090	0.375		0.568	+.002/-.000	0.090		25.04
R2B-00375/1*	**0.375**		0.375	0.662	0.114	0.375		0.662	+.003/-.000	0.130		25.04
R2B-00437/0*	**0.437**		0.437	0.630	0.090	0.437		0.630	+.002/-.000	0.090		25.04
R2B-00437/1*	**0.437**		0.437	0.724	0.114	0.437		0.724	+.003/-.000	0.130		25.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R2B-00500/0*	**0.500**	+.000 -.001	0.500	0.693	0.090	0.500	+.000 -.001	0.693	+.002/-.000	0.090	+.004 -.004	25.04
R2B-00500/1*	**0.500**		0.500	0.787	0.114	0.500		0.787	+.003/-.000	0.130		25.04
R2B-00562/0*	**0.562**		0.562	0.755	0.090	0.562		0.755	+.002/-.000	0.090		25.04
R2B-00562/1*	**0.562**		0.562	0.849	0.114	0.562		0.849	+.003/-.000	0.130		25.04
R2B-00625/1*	**0.625**		0.625	0.912	0.130	0.625		0.912	+.002/-.000	0.130		25.04
R2B-00625/2*	**0.625**		0.625	1.046	0.153	0.625		1.046	+.004/-.000	0.169		25.04
R2B-00687/1*	**0.687**		0.687	0.974	0.130	0.687		0.974	+.002/-.000	0.130		25.04
R2B-00687/2*	**0.687**		0.687	1.108	0.153	0.687		1.108	+.004/-.000	0.169		25.04
R2B-00750/1*	**0.750**		0.750	1.037	0.130	0.750		1.037	+.002/-.000	0.130		25.04
R2B-00750/2*	**0.750**		0.750	1.171	0.153	0.750		1.171	+.004/-.000	0.169		33.00
R2B-00812/1*	**0.812**		0.812	1.099	0.130	0.812		1.099	+.002/-.000	0.130		33.00
R2B-00812/2*	**0.812**		0.812	1.233	0.153	0.812		1.233	+.004/-.000	0.169		33.00
R2B-00875/1*	**0.875**		0.875	1.162	0.130	0.875		1.162	+.002/-.000	0.130		33.00
R2B-00875/2*	**0.875**		0.875	1.296	0.153	0.875		1.296	+.004/-.000	0.169		33.00
R2B-00937/1*	**0.937**		0.937	1.224	0.130	0.937		1.224	+.002/-.000	0.130		33.00
R2B-00937/2*	**0.937**		0.937	1.358	0.153	0.937		1.358	+.004/-.000	0.169		33.00
R2B-01000/1*	**1.000**		1.000	1.287	0.130	1.000		1.287	+.002/-.000	0.130		33.00
R2B-01000/2*	**1.000**		1.000	1.421	0.153	1.000		1.421	+.004/-.000	0.169		33.00
R2B-01062/1*	**1.062**		1.062	1.349	0.130	1.062		1.349	+.002/-.000	0.130		33.00
R2B-01062/2*	**1.062**		1.062	1.483	0.153	1.062		1.483	+.004/-.000	0.169		33.00
R2B-01125/1*	**1.125**		1.125	1.412	0.130	1.125		1.412	+.002/-.000	0.130		33.00
R2B-01125/2*	**1.125**		1.125	1.546	0.153	1.125		1.546	+.004/-.000	0.169		37.71
R2B-01187/1*	**1.187**		1.187	1.474	0.130	1.187		1.474	+.002/-.000	0.130		37.71
R2B-01187/2*	**1.187**		1.187	1.608	0.153	1.187		1.608	+.004/-.000	0.169		37.71
R2B-01250/1*	**1.250**		1.250	1.537	0.130	1.250		1.537	+.002/-.000	0.130		37.71
R2B-01250/2	**1.250**		1.250	1.671	0.153	1.250		1.671	+.004/-.000	0.169		37.71
R2B-01312/1*	**1.312**		1.312	1.599	0.130	1.312		1.599	+.002/-.000	0.130		37.71
R2B-01312/2*	**1.312**		1.312	1.733	0.153	1.312		1.733	+.004/-.000	0.169		37.71
R2B-01375/1*	**1.375**		1.375	1.662	0.130	1.375		1.662	+.002/-.000	0.130		37.71
R2B-01375/2*	**1.375**		1.375	1.796	0.153	1.375		1.796	+.004/-.000	0.169		37.71
R2B-01437/1*	**1.437**		1.437	1.724	0.130	1.437		1.724	+.002/-.000	0.130		37.71
R2B-01437/2*	**1.437**		1.437	1.858	0.153	1.437		1.858	+.004/-.000	0.169		37.71
R2B-01500/1*	**1.500**	+.000 -.002	1.500	1.787	0.130	1.500	+.000 -.002	1.787	+.002 -.000	0.130		37.71
R2B-01500/2	**1.500**		1.500	1.921	0.169	1.500		1.921		0.169		37.71
R2B-01562/1*	**1.562**		1.562	1.849	0.130	1.562		1.849		0.130		37.71
R2B-01562/2*	**1.562**		1.562	1.983	0.153	1.562		1.983	+.004/-.000	0.169		41.96
R2B-01625/2*	**1.625**		1.625	2.046	0.169	1.625		2.046	+.003 -.000	0.169		40.48
R2B-01687/2*	**1.687**		1.687	2.108	0.169	1.687		2.108		0.169		40.48
R2B-01750/2	**1.750**		1.750	2.171	0.169	1.750		2.171		0.169		40.48
R2B-01812/2*	**1.812**		1.812	2.233	0.169	1.812		2.233		0.169		40.48
R2B-01875/2*	**1.875**		1.875	2.296	0.169	1.875		2.296		0.169		40.48
R2B-01937/2*	**1.937**		1.937	2.358	0.169	1.937		2.358		0.169		45.07
R2B-02000/2*	**2.000**		2.000	2.421	0.169	2.000		2.421		0.169		45.07
R2B-02125/2*	**2.125**		2.125	2.546	0.169	2.125		2.546		0.169		45.07
R2B-02250/2*	**2.250**		2.250	2.671	0.169	2.250		2.671		0.169		45.07
R2B-02250/3*	**2.250**		2.250	2.844	0.232	2.250		2.844	+.005/-.000	0.252		54.27

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

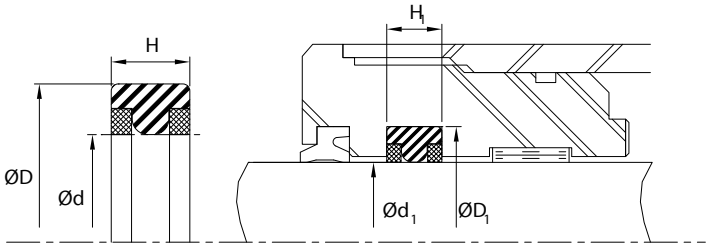
R2B series - BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	H1	Tol.	
R2B-02375/2	**2.375**	+.000 -.002	2.375	2.796	0.169	2.375	+.000 -.002	2.796	+.003 -.000	0.169	+.004 -.004	45.07
R2B-02500/2	**2.500**		2.500	2.921	0.169	2.500		2.921		0.169		49.18
R2B-02625/2*	**2.625**		2.625	3.046	0.169	2.625		3.046		0.169		49.18
R2B-02750/2*	**2.750**		2.750	3.171	0.169	2.750		3.171		0.169		49.18
R2B-02875/2*	**2.875**		2.875	3.296	0.169	2.875		3.296		0.169		49.18
R2B-03000/2	**3.000**	+.000 -.003	3.000	3.421	0.169	3.000	+.000 -.003	3.421		0.169		49.18
R2B-03125/2*	**3.125**		3.125	3.546	0.169	3.125		3.546		0.169		49.18
R2B-03250/3*	**3.250**		3.250	3.844	0.252	3.250		3.844		0.252		49.18
R2B-03375/3*	**3.375**		3.375	3.969	0.252	3.375		3.969		0.252		49.18
R2B-03500/3*	**3.500**		3.500	4.094	0.252	3.500		4.094		0.252		53.87
R2B-03625/3*	**3.625**		3.625	4.219	0.252	3.625		4.219		0.252		53.87
R2B-03750/3*	**3.750**		3.750	4.344	0.252	3.750		4.344		0.252		53.87
R2B-03875/3*	**3.875**		3.875	4.469	0.252	3.875		4.469		0.252		53.87
R2B-04000/3	**4.000**	+.000 -.005	4.000	4.594	0.252	4.000	+.000 -.005	4.594		0.252		59.48
R2B-04125/3*	**4.125**		4.125	4.719	0.252	4.125		4.719		0.252		59.48
R2B-04250/3	**4.250**		4.250	4.844	0.252	4.250		4.844	+.004 -.000	0.252		59.48
R2B-04375/3*	**4.375**		4.375	4.969	0.252	4.375		4.969		0.252		59.48
R2B-04500/3*	**4.500**		4.500	5.094	0.252	4.500		5.094		0.252		63.92
R2B-04625/3*	**4.625**		4.625	5.219	0.252	4.625		5.219		0.252		63.92
R2B-04750/3*	**4.750**		4.750	5.344	0.252	4.750		5.344		0.252		63.92
R2B-04875/3	**4.875**		4.875	5.469	0.252	4.875		5.469		0.252		63.92
R2B-05000/3*	**5.000**		5.000	5.594	0.252	5.000		5.594		0.252		72.50
R2B-05125/3*	**5.125**		5.125	5.719	0.252	5.125		5.719		0.252		72.50
R2B-05250/3*	**5.250**		5.250	5.844	0.252	5.250		5.844		0.252		72.50
R2B-05375/4*	**5.375**		5.375	6.182	0.323	5.375		6.182		0.323		72.50
R2B-05500/4*	**5.500**		5.500	6.307	0.323	5.500		6.307		0.323		76.81
R2B-05625/4*	**5.625**		5.625	6.432	0.323	5.625		6.432		0.323		76.81
R2B-05750/4*	**5.750**		5.750	6.557	0.323	5.750		6.557		0.323		76.81
R2B-06000/4*	**6.000**		6.000	6.807	0.323	6.000		6.807		0.323		89.54
R2B-06250/4*	**6.250**		6.250	7.057	0.323	6.250		7.057		0.323		89.54
R2B-06500/4*	**6.500**		6.500	7.307	0.323	6.500		7.307	+.005 -.000	0.323		89.54
R2B-06750/4*	**6.750**		6.750	7.557	0.323	6.750		7.557		0.323		89.54
R2B-07000/4	**7.000**		7.000	7.807	0.323	7.000		7.807		0.323		99.64
R2B-07250/4*	**7.250**		7.250	8.057	0.323	7.250		8.057		0.323		99.64
R2B-07500/4*	**7.500**		7.500	8.307	0.323	7.500		8.307		0.323		103.85
R2B-07750/4*	**7.750**		7.750	8.557	0.323	7.750		8.557		0.323		103.85
R2B-08000/4*	**8.000**		8.000	8.807	0.323	8.000		8.807		0.323		106.13
R2B-08250/4*	**8.250**		8.250	9.057	0.323	8.250		9.057		0.323		114.45
R2B-08500/4	**8.500**		8.500	9.307	0.323	8.500		9.307		0.323		114.45
R2B-08750/4*	**8.750**		8.750	9.557	0.323	8.750		9.557		0.323		118.97
R2B-09000/4*	**9.000**		9.000	9.807	0.323	9.000		9.807		0.323		118.97
R2B-09250/4*	**9.250**		9.250	10.057	0.323	9.250		10.057		0.323		131.49
R2B-09500/4*	**9.500**		9.500	10.307	0.323	9.500		10.307		0.323		131.49
R2B-09750/4*	**9.750**		9.750	10.557	0.323	9.750		10.557		0.323		155.75
R2B-10000/4*	**10.000**		10.000	10.807	0.323	10.000		10.807		0.323		155.75

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Nitrile/Nylon	-40°F to +225°F (-40°C to +107°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)



TR-style rod seals are designed to retrofit O'Rings in no-backup type grooves. T-Seals offer a tight sealing assembly with a stable cross-sectional shape and added extrusion resistance with the help of the back-up rings.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
TR-106*	**0.187**	+.001 -.001	0.187	0.375	0.150	0.187	+.001 -.001	0.370	+.000 -.002	0.150	+.005 -.000	26.84
TR-108*	**0.250**		0.250	0.437	0.150	0.250		0.433		0.150		7.92
TR-109*	**0.312**		0.312	0.500	0.150	0.312		0.495		0.150		7.92
TR-204*	**0.375**		0.375	0.625	0.185	0.375		0.618		0.185		8.39
TR-205*	**0.437**		0.437	0.687	0.185	0.437		0.680		0.185		10.75
TR-206	**0.500**		0.500	0.750	0.185	0.500		0.743		0.185		14.15
TR-206-2*	**0.500**		0.500	0.750	0.245	0.500		0.743		0.245		86.30
TR-207*	**0.562**		0.562	0.812	0.185	0.562		0.805		0.185		10.15
TR-208*	**0.625**		0.625	0.875	0.185	0.625		0.868		0.185		10.41
TR-209	**0.687**		0.687	0.937	0.185	0.687		0.930		0.185		31.17
TR-210	**0.750**		0.750	1.000	0.185	0.750		0.992		0.185		11.03
TR-211*	**0.812**		0.812	1.062	0.185	0.812		1.054		0.185		9.75
TR-212	**0.875**		0.875	1.125	0.185	0.875		1.117		0.185		12.55
TR-213*	**0.937**		0.937	1.187	0.185	0.937		1.179		0.185		9.43
TR-214	**1.000**		1.000	1.250	0.185	1.000		1.242		0.185		11.03
TR-215*	**1.062**		1.062	1.312	0.185	1.062		1.304		0.185		31.17
TR-216	**1.125**		1.125	1.375	0.185	1.125		1.367		0.185		12.55
TR-217*	**1.187**		1.187	1.437	0.185	1.187		1.429		0.185		29.10
TR-218	**1.250**		1.250	1.500	0.185	1.250		1.492		0.185		11.29
TR-219*	**1.312**		1.312	1.562	0.185	1.312		1.554		0.185		12.47
TR-220	**1.375**		1.375	1.625	0.185	1.375		1.617		0.185		15.16
TR-221*	**1.437**		1.437	1.687	0.185	1.437		1.679		0.185		12.59
TR-222*	**1.500**		1.500	1.750	0.185	1.500		1.742		0.185		12.55

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

TR series - NBR/NYLON

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
TR-325	**1.500**	+.001 -.001	1.500	1.875	0.280	1.500	+.001 -.001	1.871	+.000 -.002	0.280	+.005 -.000	10.27
TR-325/V*	**1.500**		1.500	1.875	0.280	1.500		1.871		0.280		27.43
TR-326	**1.625**		1.625	2.000	0.280	1.625		1.996		0.280		15.49
TR-327	**1.750**		1.750	2.125	0.280	1.750		2.121		0.280		11.61
TR-328	**1.875**		1.875	2.250	0.280	1.875		2.246		0.280		16.01
TR-329	**2.000**		2.000	2.375	0.280	2.000		2.371		0.280		12.93
TR-330	**2.125**		2.125	2.500	0.280	2.125		2.496		0.280		13.68
TR-331	**2.250**		2.250	2.625	0.280	2.250		2.613		0.280		15.27
TR-331-1*	**2.250**		2.250	2.625	0.334	2.250		2.613		0.334		122.26
TR-332	**2.375**	+.002 -.002	2.375	2.750	0.280	2.375		2.746	+.001 -.003	0.280		15.89
TR-333	**2.500**		2.500	2.875	0.280	2.500	+.002 -.002	2.871		0.280		16.06
TR-334*	**2.625**		2.625	3.000	0.280	2.625		2.996		0.280		16.11
TR-335	**2.750**		2.750	3.125	0.280	2.750		3.121		0.280		18.29
TR-336	**2.875**		2.875	3.250	0.280	2.875		3.246		0.280		18.79
TR-337	**3.000**		3.000	3.375	0.280	3.000		3.370		0.280		19.65
TR-338	**3.125**		3.125	3.500	0.280	3.125		3.495		0.280		21.04
TR-339	**3.250**		3.250	3.625	0.280	3.250		3.620		0.280		22.47
TR-340	**3.375**		3.375	3.750	0.280	3.375		3.745		0.280		23.29
TR-341	**3.500**		3.500	3.875	0.280	3.500		3.870		0.280		24.98
TR-342	**3.625**		3.625	4.000	0.280	3.625		3.995		0.280		26.14
TR-343	**3.750**		3.750	4.125	0.280	3.750		4.120		0.280		52.45
TR-344	**3.875**		3.875	4.250	0.280	3.875		4.245		0.280		28.57
TR-345	**4.000**		4.000	4.375	0.280	4.000		4.370		0.280		30.36
TR-346	**4.125**		4.125	4.500	0.280	4.125		4.495		0.280		35.67
TR-347	**4.250**		4.250	4.625	0.280	4.250		4.620		0.280		40.51
TR-348*	**4.375**		4.375	4.750	0.280	4.375		4.745		0.280		37.55
TR-349	**4.500**		4.500	4.875	0.280	4.500		4.870		0.280		69.07
TR-349/V	**4.500**		4.500	4.875	0.280	4.500		4.870		0.280		110.30
TR-429	**5.000**		5.000	5.500	0.366	5.000		5.475		0.366		47.33
TR-431*	**5.250**		5.250	5.750	0.366	5.250		5.725		0.366		60.52
TR-433	**5.500**		5.500	6.000	0.366	5.500		5.975		0.366		101.62
TR-434*	**5.625**		5.625	6.125	0.366	5.625		6.100		0.366		75.86
TR-437	**6.000**	+.003 -.003	6.000	6.500	0.366	6.000		6.475	+.002 -.004	0.366		59.89
TR-438*	**6.250**		6.250	6.750	0.366	6.250	+.003 -.003	6.725		0.366		63.47
TR-439	**6.500**		6.500	7.000	0.366	6.500		6.975		0.366		101.68
TR-440*	**6.750**		6.750	7.250	0.366	6.750		7.225		0.366		75.64
TR-441	**7.000**		7.000	7.500	0.366	7.000		7.475		0.366		87.65
TR-442*	**7.250**		7.250	7.750	0.366	7.250		7.725		0.366		95.86
TR-443	**7.500**		7.500	8.000	0.366	7.500		7.984		0.366		107.95
TR-445	**8.000**		8.000	8.500	0.366	8.000		8.475		0.366		162.71
TR-447	**9.000**		9.000	9.500	0.366	9.000		9.475		0.366		188.09
TR-448*	**9.500**		9.500	10.000	0.366	9.500		9.975		0.366		189.75
TR-449	**10.000**		10.000	10.500	0.366	10.000		10.475		0.366		192.64
TR-451	**11.000**		11.000	11.500	0.366	11.000		11.475		0.366		199.56

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.



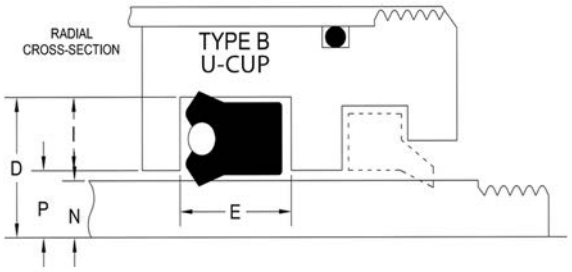






	LOADED U-CUPS ENGINEERING	C	2
	STD LOADED U-CUPS	C	4
	DEEP LOADED U-CUPS	C	16
	B LOADED U-CUPS	C	24
	MODULAR BACKUP	C	40
	US	C	44
	AN6226	C	58
	8400	C	61

High Performance Loaded U-Cups



Rod Seal Example

Given desired rod diameter of 2-1/2" with a normal seal cross-section of 1/4".

Rod dia.(N) = 2.500 + .000/-.002

Throat dia.(P) =Nmax + .001 + .003/-.000 = 2.500 + .001 = 2.501 + .003/-.000

Groove dia.(D) = Nmax + 2(I) + .003/-.000 = 2.500 + 2.(.250) = 3.000 +.003/-.000

Axial groove length(E) = Given .413 + .013/-.000

N Nominal Rod I.D. Range	Nominal Radial Cross Section	I	E Axial Groove Length Standard	 Deep & Type B	P Throat Diameter	P Groove O.D.
1/4" - 2 1/8" ± .000 .000	1/8	.125	.138 ± .015 .000	.275 ± .015 .000	Nmax + .001 ± .002 .001	Nmax + 2 (I) ± .002 .000
5/16" - 4 1/4" ± .000 .002	3/16	.187	.206 ± .015 .000	.343 .413 ± .015 .000	Nmax + .001 ± .002 .000	Nmax + 2 (I) ± .002 .000
1/4" - 12 3/4" ± .000 .002	1/8	.250	.275 ± .015 .000	.413 .618 ± .015 .000	Nmax + .001 ± .003 .000	Nmax + 2 (I) ± .003 .000
3/4" - 9 5/8" ± .000 .002	5/16	.312	.343 ± .015 .000	.550 .688 ± .015 .000	Nmax + .002 ± .003 .000	Nmax + 2 (I) ± .004 .000
1 1/2" - 14 3/4" ± .000 .002	3/16	.375	.412 ± .015 .000	.550 .688 ± .015 .000	Nmax + .002 ± .004 .000	Nmax + 2 (I) ± .005 .000
2 1/4" - 5" ± .000 .003	7/16	.437	.481 ± .015 .000	.688 .825 ± .015 .000	Nmax + .002 ± .004 .000	Nmax + 2 (I) ± .006 .000
1 3/4" - 24 7/8" ± .000 .003	1/2	.500	.550 ± .015 .000	.825 ± .015 .000	Nmax + .002 ± .005 .000	Nmax + 2 (I) ± .007 .000
2 3/4" - 19 3/4" ± .000 .003	5/8	.625	.688 ± .015 .000	1.100 1.375 ± .015 .000	Nmax + .003 ± .006 .000	Nmax + 2 (I) ± .009 .000
7 1/4" - 31" ± .000 .004	3/4	.750	.825 ± .015 .000	1.238 1.375 ± .015 .000	Nmax + .003 ± .007 .000	Nmax + 2 (I) ± .011 .000
15" - 39" ± .000 .005	1	1.000	1.100 ± .015 .000	1.650 ± .015 .000	Nmax + .004 ± .009 .000	Nmax + 2 (I) ± .015 .000
F1	F2			F3	F4	F5

Notes:

F_1 – The Nominal Rod Diameter spread shown is taken from Price List PPD3701. Available sizes fall in cross-section range. Rod size range given based on Type B Poly Pak availability.

F_2 – The Radial Cross-Section I is shown as a fraction for Seal Reference and a three place decimal for Gland Reference.

F_3 – There may be two possible Axial Groove Lengths for some cross-sections.

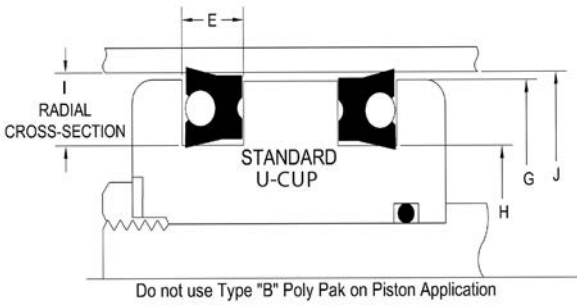
F_4 – The throat diameters are simply figured by taking the maximum Rod Diameter plus the noted clearance.

F_5 – The Groove Outside Diameter is calculated by taking the maximum Rod Diameter plus two radial cross-sections I.

Note:

1 – Molythane parts can be stretched up to 5% of its diameter or compressed up to 2% for rod applications. Therefore if odd size rods or bores are encountered, existing sizes can be used without special non-available seals. Careful attention must be taken when using the 5% rule so that the radial cross-section "I" must be maintained no matter what dimension the rod or piston actually measures. Careful attention must be taken to select a size that requires 5% max **stretch** on the diameter in piston applications, and 2% max. **compression** on the diameter in rod applications.

2 – Axial groove lengths for PolyPaks with non-positively actuated modular back-ups are calculated by: (nominal radial c/s desired x 1.100) + "E".



Piston Seal Example

Given desired bore diameter of 6" with a normal seal cross-section of 3/8".

Bore dia.(J) = 6.000 + .004/-.000

Piston O.D.(G) =Jmin - .002 + .000/-.002= 6.000 - .002 = 5.998 + .000/-.002

Groove I.D.(H) = Jmin + 2(I) + .000/-.005 = 6.000 - 2.(.375) = 5.250 +.000/-.005

Axial groove length(E) = Given .550 + .015/-.000

N Nominal Rod I.D. Range	Nominal Radial Cross Section	I	E Axial Groove Length Standard	E Axial Groove Length Deep & Type B	P Throat Diameter	P Groove O.D.
5/16" - 6" ± .002 .000	1/8	.125	.138 ± .015 .000	.275 ± .015 .000	Jmin -.001 ± .000 .001	Jmin - 2 (I) ± .002 .000
9/16" - 6 11/16" ± .002 .000	3/16	.187	.206 ± .015 .000	.343 .413 ± .015 .000	Jmin -.001 ± .000 .002	Jmin - 2 (I) ± .000 .002
3/4" - 14" ± .003 .000	1/4	.250	.275 ± .015 .000	.413 .618 ± .015 .000	Jmin -.001 ± .000 .002	Jmin - 2 (I) ± .000 .003
1" - 15 1/2" ± .003 .000	5/16	.312	.343 ± .015 .000	.550 .688 ± .015 .000	Jmin -.002 ± .000 .002	Jmin - 2 (I) ± .000 .004
1 1/4" - 20 1/4" ± .004 .000	3/8	.375	.412 ± .015 .000	.550 .688 ± .015 .000	Jmin -.002 ± .000 .002	Jmin - 2 (I) ± .000 .005
1 7/8" - 6 3/8" ± .005 .000	7/16	.437	.481 ± .015 .000	.688 .825 ± .015 .000	Jmin -.002 ± .000 .002	Jmin - 2 (I) ± .000 .006
1 5/8" - 52 1/2" ± .005 .000	1/2	.500	.550 ± .015 .000	.688 .825 ± .015 .000	Jmin -.002 ± .000 .003	Jmin - 2 (I) ± .000 .007
3 5/8" - 5 1/2" ± .006 .000	9/16	.562	.618 ± .015 .000	.963 ± .015 .000	Jmin -.002 ± .000 .003	Jmin - 2 (I) ± .000 .008
2 1/2" - 26" ± .006 .000	5/8	.625	.688 ± .015 .000	1.100 1.375 ± .015 .000	Jmin -.003 ± .000 .003	Jmin - 2 (I) ± .000 .009
4 1/2" - 27 1/2" ± .007 .000	3/4	.750	.825 ± .015 .000	1.238 1.375 ± .015 .000	Jmin -.003 ± .000 .004	Jmin - 2 (I) ± .000 .011
4 1/2" - 27 1/2" ± .008 .000	7/8	.875	.963 ± .015 .000	1.375 1.513 ± .015 .000	Jmin -.004 ± .000 .001	Jmin - 2 (I) ± .000 .012
4 1/2" - 27 1/2" ± .009 .000	1	1.000	1.100 ± .015 .000	1.650 ± .015 .000	Jmin -.005 ± .000 .001	Jmin - 2 (I) ± .000 .011
F1	F2		F3		F4	F5

Notes:

F_1 – The NominaBore Diameter spread shown is taken from Price List PPD3701. Available sizes fall in these sizes.

F_2 – The Radial Cross-Section I is shown as a fraction for Seal Reference and a three place decimal for Gland Reference.

F_3 – There may be two possible Axial Groove Lengths for some cross-sections.

F_4 – The Piston outside Diameter is simply figured by taking the minimum Bore Diameter minus the noted clearance.

F_5 – The Groove Inside Diameter is calculated by taking the minimum Bore Diameter minus two radial cross-sections I.

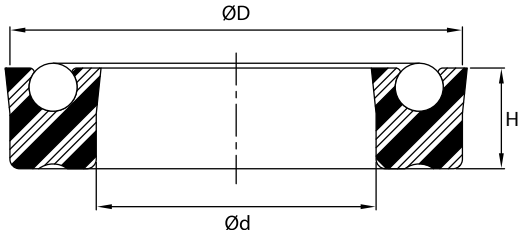
Note:

1 – Molythane parts can be stretched up to 5% of its diameter or compressed up to 2% for rod applications. Therefore if odd size rods or bores are encountered, existing sizes can be used without special non-available seals. Careful attention must be taken when using the 5% rule so that the radial cross-section "I" must be maintained no matter what dimension the rod or piston actually measures. Careful attention must be taken to select a size that requires 5% max **stretch** on the diameter in piston applications, and 2% max. **compression** on the diameter in rod applications.

2 – Axial groove lengths for Poly Paks with non-positively actuated modular back-ups are calculated by: (nominal radial c/s desired x 1.100) + "E".

STD Loaded U-Cups - Rod/Piston Seals - Inch





Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-40°F to +230°F (-40°C to +110°C)	≤5000 psi (≤ 345 bar)	<3.3 ft/s (1 m/s)
P, 4651 = High Perf. Urethane	-40°F to +248°F (-40°C to +120°C)	≤6000 psi (≤ 414 bar)	
V = FPM	-20°F to +400°F (-29°C to +204°C)	≤2000 psi (≤ 138 bar)	

The **Standard Loaded U-Cups** is squeeze seal with a symmetrical profile for use in either rod or piston applications. The **Standard Loaded U-Cups** is an economical choice as a stand alone rod or piston seal. With less squeeze force than the **Deep** or **Type B-style**. The **Standard Loaded U-Cups** can be installed back-to-back in separate glands for bi-directional sealing.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500062*	0.062	0.312	0.125	6.45
12500093*	0.093	0.343	0.125	6.45
12500125	0.125	0.375	0.125	6.45
12500140*	0.140	0.390	0.125	6.45
12500187	0.187	0.437	0.125	6.45
12500250	0.250	0.500	0.125	6.45
12500250Q/V*	0.250	0.500	0.125	25.74
12500250V/P	0.250	0.500	0.125	10.18
12500312	0.312	0.562	0.125	6.25
12500312Q	0.312	0.562	0.125	6.58
12500359*	0.359	0.609	0.125	6.32
12500375	0.375	0.625	0.125	6.45
12500375N/P	0.375	0.625	0.125	10.18
12500375Q/V*	0.375	0.625	0.125	25.74
12500437	0.437	0.687	0.125	7.29
12500500	0.500	0.750	0.125	6.45
12500500Q/V	0.500	0.750	0.125	27.64
12500531*	0.531	0.781	0.125	7.72
12500562	0.562	0.812	0.125	6.89
12500625	0.625	0.875	0.125	9.32
12500625Q/V	0.625	0.875	0.125	25.74
12500687	0.687	0.937	0.125	6.98

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500750	0.750	1.000	0.125	6.81
12500750Q/V	0.750	1.000	0.125	25.74
12500812	0.813	1.063	0.125	7.08
12500875	0.875	1.125	0.125	11.22
12500875Q/V*	0.875	1.125	0.125	28.59
12500906Q*	0.906	1.156	0.125	11.64
12500937	0.937	1.187	0.125	7.28
12501000	1.000	1.250	0.125	8.98
12501000Q/V	1.000	1.250	0.125	28.59
12501062	1.062	1.312	0.125	7.71
12501125	1.125	1.375	0.125	7.75
12501125N/P*	1.125	1.375	0.125	9.68
12501125Q/V*	1.125	1.375	0.125	35.71
12501187	1.187	1.437	0.125	7.99
12501250	1.250	1.500	0.125	7.58
12501250Q/V*	1.250	1.500	0.125	30.24
12501312*	1.312	1.562	0.125	8.58
12501312Q	1.312	1.562	0.125	9.22
12501375	1.375	1.625	0.125	8.12
12501375Q/V*	1.375	1.625	0.125	30.24
12501437*	1.437	1.687	0.125	9.81
12501500	1.500	1.750	0.125	8.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12501500N/P*	1.500	1.750	0.125	11.80
12501500Q/V*	1.500	1.750	0.125	32.46
12501562Q*	1.562	1.812	0.125	8.78
12501625	1.625	1.875	0.125	9.02
12501687*	1.687	1.937	0.125	9.47
12501750	1.750	2.000	0.125	9.01
12501750N/P	1.750	2.000	0.125	11.53
12501750Q/V*	1.750	2.000	0.125	36.36
12501875	1.875	2.125	0.125	14.50
12502000	2.000	2.250	0.125	9.88
12502125*	2.125	2.375	0.125	10.35
12502250*	2.250	2.500	0.125	10.08
12502375	2.375	2.625	0.125	10.31
12502500	2.500	2.750	0.125	10.52
12502625	2.625	2.875	0.125	12.86
12502750	2.750	3.000	0.125	11.27
12502875*	2.875	3.125	0.125	11.70
12503000	3.000	3.250	0.125	12.37
12503125*	3.125	3.375	0.125	12.88
12503250	3.250	3.500	0.125	13.16
12503250Q*	3.250	3.500	0.125	13.37
12503500	3.500	3.750	0.125	14.47
12503625*	3.625	3.875	0.125	12.94
12503750	3.750	4.000	0.125	17.04
12503875*	3.875	4.125	0.125	16.87
12504000*	4.000	4.250	0.125	17.62
12504000Q*	4.000	4.250	0.125	21.79
12504250	4.250	4.500	0.125	19.33
12504375*	4.375	4.625	0.125	21.92
12504500	4.500	4.750	0.125	22.12
12504750	4.750	5.000	0.125	22.91
12504875*	4.875	5.125	0.125	22.12
12505000	5.000	5.250	0.125	31.63
12505750*	5.750	6.000	0.125	32.68
12505750Q*	5.750	6.000	0.125	31.20
5/32" - Cross Section - 0.156"				
15600437*	0.437	0.750	0.156	7.82
15600750	0.750	1.062	0.156	8.79
15600937	0.937	1.250	0.156	9.54
15601000	1.000	1.312	0.156	9.61
15601000Q/V	1.000	1.312	0.156	32.62
15601062	1.062	1.375	0.156	18.50
15601125*	1.125	1.437	0.156	9.05

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/32" - Cross Section - 0.156"				
15601187	1.187	1.500	0.156	8.65
15601187Q/V	1.187	1.500	0.156	34.55
15601250	1.250	1.562	0.156	8.95
15601375	1.375	1.687	0.156	11.10
15601375Q/V*	1.375	1.687	0.156	36.78
15601500*	1.500	1.812	0.156	10.05
15602062*	2.062	2.375	0.156	9.70
11/64" - Cross Section - 0.171"				
17100562*	0.562	0.906	0.171	5.78
3/16" - Cross Section - 0.187"				
18700187*	0.187	0.562	0.187	7.36
18700250	0.250	0.625	0.187	8.11
18700312*	0.312	0.687	0.187	6.41
18700375	0.375	0.750	0.187	6.51
18700375N/P*	0.375	0.750	0.187	7.52
18700375Q/V*	0.375	0.750	0.187	24.57
18700437	0.437	0.812	0.187	10.12
18700500	0.500	0.875	0.187	21.35
18700500Q/V	0.500	0.875	0.187	27.87
18700562	0.562	0.937	0.187	13.77
18700625	0.625	1.000	0.187	7.12
18700625N/P*	0.625	1.000	0.187	12.77
18700656Q*	0.656	1.031	0.187	7.95
18700687	0.687	1.062	0.187	7.36
18700750	0.750	1.125	0.187	7.35
18700812*	0.812	1.187	0.187	7.97
18700875	0.875	1.250	0.187	7.95
18700875N/4651*	0.875	1.250	0.187	19.09
18700937*	0.937	1.312	0.187	8.49
18701000	1.000	1.375	0.187	8.05
18701000N/P	1.000	1.375	0.187	10.34
18701000Q/V*	1.000	1.375	0.187	31.10
18701062*	1.062	1.437	0.187	8.48
18701062/V*	1.062	1.437	0.187	36.11
18701125	1.125	1.500	0.187	8.47
18701125/V	1.125	1.500	0.187	34.12
18701187	1.187	1.562	0.187	8.77
18701250	1.250	1.625	0.187	9.42
18701312	1.312	1.687	0.187	9.65
18701375	1.375	1.750	0.187	9.15
18701375N/P*	1.375	1.750	0.187	11.94
18701375Q/V	1.375	1.750	0.187	36.24

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STD series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18701437*	1.437	1.812	0.187	9.88
18701500	1.500	1.875	0.187	9.40
18701500N/P	1.500	1.875	0.187	11.94
18701500Q/V	1.500	1.875	0.187	41.20
18701562*	1.562	1.937	0.187	11.53
18701625	1.625	2.000	0.187	9.77
18701625N/P	1.625	2.000	0.187	12.73
18701625Q/V	1.625	2.000	0.187	37.45
18701687	1.687	2.062	0.187	10.58
18701750N/4651*	1.750	2.000	0.187	23.38
18701750	1.750	2.125	0.187	10.00
18701750N/P*	1.750	2.125	0.187	12.86
18701750Q/V	1.750	2.125	0.187	38.18
18701812*	1.812	2.187	0.187	12.20
18701875	1.875	2.250	0.187	23.74
18701937*	1.937	2.312	0.187	15.22
18702000	2.000	2.375	0.187	13.08
18702000N/4651	2.000	2.375	0.187	25.45
18702000Q/V	2.000	2.375	0.187	39.81
18702062*	2.062	2.437	0.187	11.43
18702125	2.125	2.500	0.187	10.73
18702125N/P	2.125	2.500	0.187	16.96
18702125Q/V	2.125	2.500	0.187	39.28
18702250	2.250	2.625	0.187	11.07
18702250Q/V*	2.250	2.625	0.187	43.89
18702375	2.375	2.750	0.187	12.56
18702375Q/V*	2.375	2.750	0.187	44.89
18702500	2.500	2.875	0.187	11.51
18702500N/P	2.500	2.875	0.187	14.46
18702500Q/V	2.500	2.875	0.187	45.42
18702625	2.625	3.000	0.187	11.78
18702750	2.750	3.125	0.187	21.35
18702750N/P	2.750	3.125	0.187	16.96
18702750Q/V*	2.750	3.125	0.187	47.09
18702875	2.875	3.250	0.187	12.70
18702875Q/V*	2.875	3.250	0.187	46.70
18703000	3.000	3.375	0.187	13.06
18703000N/P	3.000	3.375	0.187	16.85
18703000Q/V	3.000	3.375	0.187	52.71
18703125	3.125	3.500	0.187	14.30
18703250	3.250	3.625	0.187	15.37
18703375	3.375	3.750	0.187	16.29
18703375N/P	3.375	3.750	0.187	24.65
18703375Q/V*	3.375	3.750	0.187	74.89

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18703500	3.500	3.875	0.187	17.00
18703500Q	3.500	3.875	0.187	14.01
18703625	3.625	4.000	0.187	17.15
18703625N/P	3.625	4.000	0.187	21.88
18703750	3.750	4.125	0.187	18.73
18703750Q*	3.750	4.125	0.187	19.62
18703875	3.875	4.250	0.187	38.17
18704000	4.000	4.375	0.187	19.88
18704000N/P	4.000	4.375	0.187	30.10
18704000Q/V*	4.000	4.375	0.187	87.50
18704125	4.125	4.500	0.187	21.61
18704250*	4.250	4.625	0.187	22.05
18704375*	4.375	4.750	0.187	22.47
18704500	4.500	4.875	0.187	23.01
18704625	4.625	5.000	0.187	23.64
18704750	4.750	5.125	0.187	25.17
18704875	4.875	5.250	0.187	27.33
18705000*	5.000	5.375	0.187	31.16
18705000Q*	5.000	5.375	0.187	31.43
18705250*	5.250	5.625	0.187	29.57
18705687*	5.687	6.062	0.187	35.26
18705875	5.875	6.250	0.187	33.76
18706000	6.000	6.375	0.187	32.85
18706312*	6.312	6.687	0.187	42.10
7/32" Cross Section - 0.218"				
21800312Q*	0.312	0.750	0.218	8.81
21800437	0.437	0.875	0.218	10.07
21800562*	0.562	1.000	0.218	11.64
21800750*	0.750	1.187	0.218	10.27
21800937*	0.937	1.375	0.218	10.50
21801750	1.750	2.187	0.218	14.06
21802062*	2.062	2.500	0.218	16.62
21802500	2.500	2.937	0.218	18.75
21802562Q*	2.562	3.000	0.218	16.95
21802812	2.812	3.250	0.218	51.99
21803000*	3.000	3.437	0.218	19.29
21803062*	3.062	3.500	0.218	22.45
21803437*	3.437	3.875	0.218	22.74
1/4" Cross Section - 0.250"				
25000250*	0.250	0.750	0.250	9.18
25000312	0.312	0.812	0.250	8.99
25000375	0.375	0.875	0.250	8.79

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25000437Q	0.437	0.937	0.250	9.01
25000500	0.500	1.000	0.250	8.98
25000562	0.562	1.062	0.250	9.18
25000625	0.625	1.125	0.250	8.98
25000625Q/V*	0.625	1.125	0.250	33.05
25000687*	0.687	1.187	0.250	12.16
25000750	0.750	1.250	0.250	8.49
25000812*	0.812	1.312	0.250	O/R
25000812Q*	0.812	1.312	0.250	8.75
25000875	0.875	1.375	0.250	16.87
25000875N/P*	0.875	1.375	0.250	11.14
25000937	0.937	1.437	0.250	12.43
25001000	1.000	1.500	0.250	8.78
25001000Q/V	1.000	1.500	0.250	32.65
25001000V/P*	1.000	1.500	0.250	16.04
25001062	1.062	1.562	0.250	16.8
25001093*	1.093	1.593	0.250	10.88
25001125	1.125	1.625	0.250	9.50
25001187	1.187	1.687	0.250	9.61
25001250	1.250	1.750	0.250	9.31
25001312*	1.312	1.812	0.250	10.34
25001375	1.375	1.875	0.250	15.19
25001375Q/V*	1.375	1.875	0.250	47.06
25001437	1.437	1.937	0.250	11.03
25001500	1.500	2.000	0.250	10.60
25001500Q	1.500	2.000	0.250	11.53
25001500Q/V	1.500	2.000	0.250	38.75
25001625	1.625	2.125	0.250	11.77
25001750	1.750	2.250	0.250	12.31
25001750Q/V	1.750	2.250	0.250	43.31
25001875	1.875	2.375	0.250	13.06
25002000	2.000	2.500	0.250	13.10
25002000N/P	2.000	2.500	0.250	16.85
25002000Q/V	2.000	2.500	0.250	48.08
25002125	2.125	2.625	0.250	14.13
25002250	2.250	2.750	0.250	14.76
25002250Q/V	2.250	2.750	0.250	58.26
25002375	2.375	2.875	0.250	15.93
25002500	2.500	3.000	0.250	15.84
25002500/V	2.500	3.000	0.250	53.94
25002500N/P	2.500	3.000	0.250	20.28
25002625	2.625	3.125	0.250	17.33
25002750	2.750	3.250	0.250	17.19
25002750N/P	2.750	3.250	0.250	23.87

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25002750Q/V	2.750	3.250	0.250	62.86
25002875	2.875	3.375	0.250	18.20
25003000	3.000	3.500	0.250	18.45
25003000/4615*	3.000	3.500	0.250	26.00
25003000N/P	3.000	3.500	0.250	23.72
25003000Q*	3.000	3.500	0.250	19.09
25003000Q/V	3.000	3.500	0.250	67.72
25003125	3.125	3.625	0.250	20.63
25003250	3.250	3.750	0.250	20.76
25003250Q*	3.250	3.750	0.250	21.42
25003375	3.375	3.875	0.250	20.89
25003500	3.500	4.000	0.250	21.19
25003500N/P	3.500	4.000	0.250	27.31
25003500Q	3.500	4.000	0.250	22.22
25003500Q/V	3.500	4.000	0.250	81.48
25003625	3.625	4.125	0.250	22.29
25003750	3.750	4.250	0.250	24.58
25003850*	3.850	4.350	0.250	23.18
25003875	3.875	4.375	0.250	48.48
25004000	4.000	4.500	0.250	23.81
25004000N/P	4.000	4.500	0.250	30.49
25004000Q/V	4.000	4.500	0.250	91.71
25004125	4.125	4.625	0.250	26.37
25004250	4.250	4.750	0.250	25.20
25004250N/P*	4.250	4.750	0.250	32.35
25004375	4.375	4.875	0.250	32.22
25004500	4.500	5.000	0.250	26.63
25004500N/P	4.500	5.000	0.250	34.22
25004500Q/V	4.500	5.000	0.250	97.33
25004625	4.625	5.125	0.250	27.68
25004750	4.750	5.250	0.250	40.37
25004875	4.875	5.375	0.250	29.04
25005000	5.000	5.500	0.250	42.31
25005000N/P	5.000	5.500	0.250	37.52
25005125	5.125	5.625	0.250	32.05
25005250	5.250	5.750	0.250	30.20
25005375	5.375	5.875	0.250	33.59
25005500	5.500	6.000	0.250	31.97
25005500N/P	5.500	6.000	0.250	61.78
25005500Q	5.500	6.000	0.250	35.64
25005500Q/V	5.500	6.000	0.250	107.02
25005625	5.625	6.125	0.250	35.89
25005750	5.750	6.250	0.250	37.12
25005750N/P	5.750	6.250	0.250	46.80

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STD series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25005875*	5.875	6.375	0.250	37.64
25006000	6.000	6.500	0.250	35.11
25006000N/P	6.000	6.500	0.250	87.49
25006000Q*	6.000	6.500	0.250	37.65
25006250*	6.250	6.750	0.250	38.50
25006500	6.500	7.000	0.250	38.47
25006500V/P	6.500	7.000	0.250	53.02
25006750	6.750	7.250	0.250	38.65
25007000/Q*	7.000	7.500	0.250	40.04
25007000N/4651*	7.000	7.500	0.250	93.46
25007125*	7.125	7.625	0.250	40.54
25007250	7.250	7.750	0.250	41.30
25007437*	7.437	7.937	0.250	42.76
25007500	7.500	8.000	0.250	43.57
25007500N/P*	7.500	8.000	0.250	53.83
25007500V/F	7.500	8.000	0.250	101.86
25007750*	7.750	8.250	0.250	44.19
25007750Q*	7.750	8.250	0.250	45.87
25007812*	7.812	8.312	0.250	45.57
25008000	8.000	8.500	0.250	45.60
25008000N/P	8.000	8.500	0.250	57.53
25008250	8.250	8.750	0.250	46.50
25008500	8.500	9.000	0.250	76.05
25008500Q	8.500	9.000	0.250	54.43
25008750	8.750	9.250	0.250	54.85
25009000	9.000	9.500	0.250	54.25
25009000N/4651*	9.000	9.500	0.250	117.46
25009250*	9.250	9.750	0.250	58.19
25009250N/4651*	9.250	9.750	0.250	120.91
25009250Q*	9.250	9.750	0.250	65.59
25009500	9.500	10.000	0.250	55.34
25009500/V*	9.500	10.000	0.250	477.61
25009500Q	9.500	10.000	0.250	55.87
25009750*	9.750	10.250	0.250	62.69
25010000*	10.000	10.500	0.250	O/R
25010000N/4651*	10.000	10.500	0.250	137.07
25010000Q*	10.000	10.500	0.250	67.82
25010250*	10.250	10.750	0.250	69.05
25010250N/4651*	10.250	10.750	0.250	136.41
25010500	10.500	11.000	0.250	69.21
25010500N/4651*	10.500	11.000	0.250	147.82
25010750Q*	10.750	11.250	0.250	69.40
25010875*	10.875	11.375	0.250	75.69
25011000*	11.000	11.500	0.250	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25011000/4615	11.000	11.500	0.250	79.68
25011500	11.500	12.000	0.250	84.13
25011750*	11.750	12.250	0.250	O/R
25011750/4615	11.750	12.250	0.250	86.57
25012000Q	12.000	12.500	0.250	307.40
25012500Q*	12.500	13.000	0.250	94.65
25013000	13.000	13.500	0.250	419.42
25013000/4615	13.000	13.500	0.250	374.00
25013500*	13.500	14.000	0.250	101.43
25013500Q	13.500	14.000	0.250	123.32
25013750*	13.750	14.250	0.250	195.62
25014000*	14.000	14.500	0.250	114.40
25014125*	14.125	14.625	0.250	107.56
25014250*	14.250	14.750	0.250	120.23
25014500*	14.500	15.000	0.250	121.92
25015000	15.000	15.500	0.250	192.94
25016500/HPU*	16.500	17.000	0.250	417.03
25019000*	19.000	19.500	0.250	158.34
25023000*	23.000	23.500	0.250	350.74
25023500*	23.500	24.000	0.250	336.04
25024000*	24.000	24.500	0.250	346.37
25024500*	24.500	25.000	0.250	351.58
9/32" Cross Section - 0.281"				
28100187*	0.187	0.750	0.281	13.33
28100687*	0.687	1.250	0.281	13.33
28101000*	1.000	1.562	0.281	20.81
28102312*	2.312	2.875	0.281	22.48
28102562*	2.562	3.125	0.281	25.65
28104437	4.437	5.000	0.281	42.34
28105000*	5.000	5.562	0.281	46.46
28105437	5.437	6.000	0.281	49.99
28106437	6.437	7.000	0.281	85.20
28108500*	8.500	9.062	0.281	69.05
5/16" Cross Section - 0.312"				
31200250*	0.250	0.875	0.312	9.34
31200375*	0.375	1.000	0.312	10.08
31200437*	0.437	1.062	0.312	9.92
31200500*	0.500	1.125	0.312	10.28
31200625Q	0.625	1.250	0.312	10.02
31200687*	0.687	1.312	0.312	12.10
31200750*	0.750	1.375	0.312	O/R
31200750Q	0.750	1.375	0.312	10.78

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31200812*	0.812	1.437	0.312	12.30
31200875	0.875	1.500	0.312	10.65
31201000	1.000	1.625	0.312	10.62
31201062*	1.062	1.687	0.312	12.68
31201125*	1.125	1.750	0.312	O/R
31201125Q	1.125	1.750	0.312	10.73
31201187*	1.187	1.812	0.312	11.00
31201250	1.250	1.875	0.312	10.84
31201312	1.312	1.937	0.312	13.56
31201375	1.375	2.000	0.312	17.53
31201375N/P*	1.375	2.000	0.312	14.97
31201375Q/V*	1.375	2.000	0.312	47.09
31201500	1.500	2.125	0.312	12.37
31201625	1.625	2.250	0.312	27.27
31201687*	1.687	2.312	0.312	14.56
31201750	1.750	2.375	0.312	14.29
31201750N/P	1.750	2.375	0.312	18.03
31201875	1.875	2.500	0.312	21.71
31201937	1.937	2.562	0.312	15.74
31202000	2.000	2.625	0.312	16.42
31202125	2.125	2.750	0.312	16.70
31202250	2.250	2.875	0.312	17.29
31202312*	2.312	2.937	0.312	21.06
31202375	2.375	3.000	0.312	18.19
31202375Q/V*	2.375	3.000	0.312	66.44
31202500	2.500	3.125	0.312	19.31
31202562Q*	2.562	3.187	0.312	19.43
31202625Q	2.625	3.250	0.312	20.02
31202750	2.750	3.375	0.312	21.01
31202875	2.875	3.500	0.312	21.61
31203000	3.000	3.625	0.312	22.55
31203125	3.125	3.750	0.312	22.87
31203250	3.250	3.875	0.312	23.41
31203375	3.375	4.000	0.312	25.10
31203375/V	3.375	4.000	0.312	367.61
31203500	3.500	4.125	0.312	26.07
31203625	3.625	4.250	0.312	26.83
31203625Q/V*	3.625	4.250	0.312	104.40
31203750	3.750	4.375	0.312	27.68
31203875	3.875	4.500	0.312	28.64
31204000	4.000	4.625	0.312	29.44
31204125	4.125	4.750	0.312	30.14
31204250*	4.250	4.875	0.312	31.20
31204375	4.375	5.000	0.312	32.35

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31204375N/P	4.375	5.000	0.312	40.84
31204375Q/V*	4.375	5.000	0.312	135.25
31204500	4.500	5.125	0.312	33.16
31204750	4.750	5.375	0.312	49.55
31204875*	4.875	5.500	0.312	O/R
31204875Q	4.875	5.500	0.312	35.95
31205000	5.000	5.625	0.312	36.38
31205125	5.125	5.750	0.312	37.08
31205250*	5.250	5.875	0.312	37.94
31205375	5.375	6.000	0.312	38.71
31205375N/P	5.375	6.000	0.312	48.51
31205375Q*	5.375	6.000	0.312	34.15
31205375Q/V	5.375	6.000	0.312	139.34
31205500	5.500	6.125	0.312	39.60
31205625*	5.625	6.250	0.312	50.22
31205750	5.750	6.375	0.312	40.61
31205875*	5.875	6.500	0.312	42.24
31206000	6.000	6.625	0.312	42.83
31206125*	6.125	6.750	0.312	43.13
31206250	6.250	6.875	0.312	43.51
31206375	6.375	7.000	0.312	59.30
31206375/4615*	6.375	7.000	0.312	83.60
31206375/U1003	6.375	7.000	0.312	59.30
31206375Q/V	6.375	7.000	0.312	175.33
31206500	6.500	7.125	0.312	45.19
31206625	6.625	7.250	0.312	46.12
31206750*	6.750	7.375	0.312	46.73
31207000*	7.000	7.625	0.312	48.75
31207250	7.250	7.875	0.312	49.96
31207312*	7.312	7.937	0.312	50.29
31207375	7.375	8.000	0.312	50.68
31207375N/P	7.375	8.000	0.312	63.89
31207375Q/V*	7.375	8.000	0.312	182.24
31207500*	7.500	8.125	0.312	51.55
31207500N/P*	7.500	8.125	0.312	64.55
31207750	7.750	8.375	0.312	52.55
31208000	8.000	8.625	0.312	53.00
31208000N/P*	8.000	8.625	0.312	66.42
31208250	8.250	8.875	0.312	54.63
31208500	8.500	9.125	0.312	56.63
31208875*	8.875	9.500	0.312	70.68
31209625	9.625	10.250	0.312	76.18
31210125*	10.125	10.750	0.312	87.52
31212000*	12.000	12.625	0.312	101.99

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



STD series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" Cross Section - 0.312"				
31212750*	12.750	13.375	0.312	186.13
31213375*	13.375	14.000	0.312	124.72
31214250*	14.250	14.875	0.312	134.48
31215875*	15.875	16.500	0.312	224.40
11/32" - Cross Section - 0.343"				
34300750*	0.750	1.437	0.343	19.91
34301062*	1.062	1.750	0.343	21.16
34301312*	1.312	2.000	0.343	28.13
34301812*	1.812	2.500	0.343	29.63
34302312*	2.312	3.000	0.343	43.03
34302500*	2.500	3.187	0.343	39.11
34302687*	2.687	3.375	0.343	45.05
34309312*	9.312	10.000	0.343	97.58
3/8" - Cross Section - 0.375"				
37500500*	0.500	1.250	0.375	12.63
37500625*	0.625	1.375	0.375	15.42
37500750*	0.750	1.500	0.375	26.87
37500812Q*	0.812	1.562	0.375	13.84
37500875	0.875	1.625	0.375	28.43
37500937*	0.937	1.687	0.375	13.87
37501000	1.000	1.750	0.375	13.94
37501125	1.125	1.875	0.375	15.24
37501250	1.250	2.000	0.375	15.37
37501312*	1.312	2.062	0.375	18.33
37501375	1.375	2.125	0.375	16.33
37501437*	1.437	2.187	0.375	19.32
37501500	1.500	2.250	0.375	17.29
37501562	1.562	2.312	0.375	18.72
37501625	1.625	2.375	0.375	19.02
37501750	1.750	2.500	0.375	19.83
37501750N/4651*	1.750	2.500	0.375	47.59
37501750N/F*	1.750	2.500	0.375	34.71
37501875	1.875	2.625	0.375	21.56
37502000	2.000	2.750	0.375	21.65
37502062*	2.062	2.812	0.375	22.39
37502125	2.125	2.875	0.375	22.97
37502250	2.250	3.000	0.375	24.22
37502375	2.375	3.125	0.375	25.80
37502437Q	2.437	3.187	0.375	31.93
37502500	2.500	3.250	0.375	26.17
37502625*	2.625	3.375	0.375	O/R
37502625Q*	2.625	3.375	0.375	27.67

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37502687*	2.687	3.437	0.375	32.49
37502750*	2.750	3.500	0.375	28.79
37502750N/4651*	2.750	3.500	0.375	81.52
37502750Q/V	2.750	3.500	0.375	113.06
37502812*	2.812	3.562	0.375	35.82
37502875	2.875	3.625	0.375	33.82
37502937*	2.937	3.687	0.375	35.82
37503000	3.000	3.750	0.375	31.49
37503125	3.125	3.875	0.375	45.52
37503125Q*	3.125	3.875	0.375	38.62
37503250	3.250	4.000	0.375	33.30
37503250Q/V*	3.250	4.000	0.375	119.55
37503375	3.375	4.125	0.375	34.62
37503500	3.500	4.250	0.375	35.82
37503625	3.625	4.375	0.375	37.81
37503750	3.750	4.500	0.375	37.68
37503843*	3.843	4.593	0.375	32.55
37503875	3.875	4.625	0.375	38.95
37504000	4.000	4.750	0.375	40.27
37504062*	4.062	4.812	0.375	34.59
37504125*	4.125	4.875	0.375	41.30
37504250	4.250	5.000	0.375	42.51
37504250N/P	4.250	5.000	0.375	53.68
37504375*	4.375	5.125	0.375	43.70
37504375Q*	4.375	5.125	0.375	46.03
37504500	4.500	5.250	0.375	44.70
37504625*	4.625	5.375	0.375	47.38
37504750	4.750	5.500	0.375	46.98
37504875*	4.875	5.625	0.375	50.15
37505000	5.000	5.750	0.375	49.28
37505125*	5.125	5.875	0.375	45.66
37505250	5.250	6.000	0.375	51.68
37505250N/P	5.250	6.000	0.375	74.37
37505250Q/V	5.250	6.000	0.375	192.05
37505375	5.375	6.125	0.375	53.04
37505500	5.500	6.250	0.375	53.64
37505625*	5.625	6.375	0.375	54.87
37505750	5.750	6.500	0.375	56.40
37505750N/P*	5.750	6.500	0.375	70.53
37505875*	5.875	6.625	0.375	57.46
37506000	6.000	6.750	0.375	58.14
37506000N/P	6.000	6.750	0.375	72.79
37506250	6.250	7.000	0.375	58.82
37506250N/P*	6.250	7.000	0.375	74.23

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
375062500Q/V*	6.250	7.000	0.375	230.47
37506375*	6.375	7.125	0.375	63.16
37506500	6.500	7.250	0.375	60.78
37506750	6.750	7.500	0.375	62.72
37507000	7.000	7.750	0.375	64.48
37507000N/P*	7.000	7.750	0.375	81.41
37507000Q	7.000	7.750	0.375	66.11
37507000Q/F*	7.000	7.750	0.375	116.39
37507250	7.250	8.000	0.375	66.22
37507250N/P	7.250	8.000	0.375	83.51
37507250Q/V	7.250	8.000	0.375	238.11
37507500	7.500	8.250	0.375	68.27
37507500N/4651*	7.500	8.250	0.375	163.72
37507625*	7.625	8.375	0.375	69.03
37507750	7.750	8.500	0.375	70.61
37507750N/P*	7.750	8.500	0.375	101.27
37508000	8.000	8.750	0.375	71.89
37508000N/P*	8.000	8.750	0.375	98.63
37508250	8.250	9.000	0.375	73.93
37508250N/4651*	8.250	9.000	0.375	177.38
37508500*	8.500	9.250	0.375	83.01
37508500Q*	8.500	9.250	0.375	97.94
37508562*	8.562	9.312	0.375	88.25
37508625*	8.625	9.375	0.375	89.25
37508625N/4651*	8.625	9.375	0.375	184.53
37508687*	8.687	9.375	0.375	89.43
37508750	8.750	9.500	0.375	90.30
37509000	9.000	9.750	0.375	89.76
37509250	9.250	10.000	0.375	97.33
37509250N/4651	9.250	10.000	0.375	194.08
37509250Q/V*	9.250	10.000	0.375	293.58
37509500	9.500	10.250	0.375	102.72
37509750*	9.750	10.500	0.375	105.19
37509750N/4651*	9.750	10.500	0.375	206.02
37509875*	9.875	10.625	0.375	108.32
37510000*	10.000	10.750	0.375	O/R
37510000/V*	10.000	10.750	0.375	495.82
37510000N/4651*	10.000	10.750	0.375	248.31
37510000Q	10.000	10.750	0.375	215.87
37510250*	10.250	11.000	0.375	O/R
37510250/4615	10.250	11.000	0.375	144.40
37510250Q	10.250	11.000	0.375	116.07
37510500	10.500	11.250	0.375	113.50
37510500Q*	10.500	11.250	0.375	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37510750*	10.750	11.500	0.375	115.94
37510750N/4651*	10.750	11.500	0.375	225.10
37511000Q*	11.000	11.750	0.375	120.46
37511250	11.250	12.000	0.375	129.16
37511250N/4651	11.250	12.000	0.375	235.05
37511250Q/V	11.250	12.000	0.375	536.74
37511500	11.500	12.250	0.375	116.43
37511750*	11.750	12.500	0.375	118.75
37512000	12.000	12.750	0.375	119.52
37512250*	12.250	13.000	0.375	152.47
37512500*	12.500	13.250	0.375	155.04
37512750*	12.750	13.500	0.375	157.77
37513000	13.000	13.750	0.375	161.68
37513250/4615	13.250	14.000	0.375	162.00
37513250N/4651*	13.250	14.000	0.375	277.19
37513250Q*	13.250	14.000	0.375	132.87
37513500*	13.500	14.250	0.375	179.82
37513750*	13.750	14.500	0.375	O/R
37513750Q	13.750	14.500	0.375	187.99
37514000Q*	14.000	14.750	0.375	181.08
37514500*	14.500	15.250	0.375	200.80
37514750*	14.750	15.500	0.375	208.28
37515000*	15.000	15.750	0.375	O/R
37515000Q*	15.000	15.750	0.375	218.19
37515500*	15.500	16.250	0.375	O/R
37515500Q*	15.500	16.250	0.375	223.92
37515750*	15.750	16.500	0.375	227.74
37516000*	16.000	16.750	0.375	229.16
37516250*	16.250	17.000	0.375	O/R
37516250/4651*	16.250	17.000	0.375	392.29
37516250Q*	16.250	17.000	0.375	235.88
37516500	16.500	17.250	0.375	244.33
37517250Q	17.250	18.000	0.375	243.06
37519500*	19.500	20.250	0.375	263.95
37523000*	23.000	23.750	0.375	497.21
37527250*	27.250	28.000	0.375	528.03
37531750*	31.750	32.500	0.375	919.13
37538500*	38.500	39.250	0.375	1109.22
13/32" - Cross Section - 0.406"				
40601187*	1.187	2.000	0.406	12.78
40601250*	1.250	2.062	0.406	13.26
40601437*	1.437	2.250	0.406	14.73
40601687*	1.687	2.500	0.406	16.86

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STD series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
13/32" - Cross Section - 0.406"				
40601750*	1.750	2.562	0.406	24.75
40602187*	2.187	3.000	0.406	20.89
40602687*	2.687	3.500	0.406	25.98
40607187*	7.187	8.000	0.406	84.03
40613187*	13.187	14.000	0.406	148.28
7/16" - Cross Section - 0.437"				
43701000*	1.000	1.875	0.437	16.62
43701250*	1.250	2.125	0.437	19.13
43701375*	1.375	2.250	0.437	20.33
43701437*	1.437	2.312	0.437	20.98
43701500*	1.500	2.375	0.437	23.94
43701750*	1.750	2.625	0.437	O/R
43701875*	1.875	2.750	0.437	25.91
43702000*	2.000	2.875	0.437	37.27
43702125*	2.125	3.000	0.437	30.44
43702125N/4651*	2.125	3.000	0.437	53.30
43702125Q*	2.125	3.000	0.437	O/R
43702500*	2.500	3.375	0.437	32.93
43702875*	2.875	3.750	0.437	36.79
43703000*	3.000	3.875	0.437	37.08
43703125Q*	3.125	4.000	0.437	33.59
43703250*	3.250	4.125	0.437	42.61
43703625*	3.625	4.500	0.437	43.54
43704000*	4.000	4.875	0.437	46.52
43704125Q	4.125	5.000	0.437	56.67
43704500*	4.500	5.375	0.437	64.28
43704750*	4.750	5.625	0.437	69.83
43705125Q	5.125	6.000	0.437	74.40
43705250Q*	5.250	6.125	0.437	78.15
43705500	5.500	6.375	0.437	87.76
1/2" Cross Section - 0.500"				
50000625*	0.625	1.625	0.500	14.67
50000750*	0.750	1.750	0.500	15.07
50001000*	1.000	2.000	0.500	21.89
50001125*	1.125	2.125	0.500	23.72
50001187*	1.187	2.187	0.500	25.33
50001250*	1.250	2.250	0.500	25.43
50001312*	1.312	2.312	0.500	25.74
50001375*	1.375	2.375	0.500	26.43
50001500	1.500	2.500	0.500	24.87
50001750	1.750	2.750	0.500	29.30
50001750Q*	1.750	2.750	0.500	28.87

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50001875*	1.875	2.875	0.500	30.73
50002000	2.000	3.000	0.500	30.60
50002125*	2.125	3.125	0.500	32.18
50002250*	2.250	3.250	0.500	34.78
50002375*	2.375	3.375	0.500	38.64
50002500	2.500	3.500	0.500	36.79
50002500N/4651*	2.500	3.500	0.500	101.67
50002750	2.750	3.750	0.500	39.60
50002875*	2.875	3.875	0.500	40.15
50003000	3.000	4.000	0.500	42.84
50003000N/4651*	3.000	4.000	0.500	102.87
50003000N/P*	3.000	4.000	0.500	102.87
50003000V/F	3.000	4.000	0.500	145.22
50003250*	3.250	4.250	0.500	O/R
50003250Q	3.250	4.250	0.500	50.91
50003375*	3.375	4.375	0.500	52.68
50003500*	3.500	4.500	0.500	54.57
50003500Q	3.500	4.500	0.500	48.43
50003625*	3.625	4.625	0.500	55.17
50003750*	3.750	4.750	0.500	54.11
50003750/V*	3.750	4.750	0.500	606.41
50003750Q	3.750	4.750	0.500	50.93
50004000	4.000	5.000	0.500	54.91
50004125	4.125	5.125	0.500	61.25
50004250*	4.250	5.250	0.500	58.03
50004312*	4.312	5.312	0.500	59.23
50004375*	4.375	5.375	0.500	64.19
50004500	4.500	5.500	0.500	68.30
50004500N/4651*	4.500	5.500	0.500	146.35
50004750	4.750	5.750	0.500	67.17
50005000	5.000	6.000	0.500	95.31
50005000N/F	5.000	6.000	0.500	229.52
50005000N/P*	5.000	6.000	0.500	94.52
50005125*	5.125	6.125	0.500	68.40
50005250	5.250	6.250	0.500	69.61
50005375	5.375	6.375	0.500	71.47
50005437*	5.437	6.437	0.500	77.51
50005500	5.500	6.500	0.500	77.81
50005750*	5.750	6.750	0.500	78.18
50006000	6.000	7.000	0.500	78.51
50006250*	6.250	7.250	0.500	O/R
50006250Q*	6.250	7.250	0.500	77.22
50006375*	6.375	7.375	0.500	78.99
50006500*	6.500	7.500	0.500	79.22

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50006500Q437/W*	6.500	7.500	0.500	128.69
50006750Q	6.750	7.750	0.500	87.56
50007000	7.000	8.000	0.500	103.05
50007000N/P	7.000	8.000	0.500	104.08
50007000Q*	7.000	8.000	0.500	90.59
50007000Q/V	7.000	8.000	0.500	315.10
50007250	7.250	8.250	0.500	89.29
50007375*	7.375	8.375	0.500	91.63
50007500	7.500	8.500	0.500	94.85
50007750*	7.750	8.750	0.500	97.10
50008000*	8.000	9.000	0.500	O/R
50008000Q	8.000	9.000	0.500	99.73
50008000Q/V*	8.000	9.000	0.500	351.44
50008125*	8.125	9.125	0.500	99.46
50008250*	8.250	9.250	0.500	110.30
50008500	8.500	9.500	0.500	115.92
50008750Q*	8.750	9.750	0.500	118.89
50009000	9.000	10.000	0.500	103.26
50009500*	9.500	10.500	0.500	121.44
50009750*	9.750	10.750	0.500	122.15
50010000	10.000	11.000	0.500	138.44
50010000/V*	10.000	11.000	0.500	1123.62
50010000N/4651	10.000	11.000	0.500	273.09
50010000Q	10.000	11.000	0.500	126.50
50010500*	10.500	11.500	0.500	O/R
50010500Q	10.500	11.500	0.500	129.64
50010750*	10.750	11.750	0.500	135.65
50010875*	10.875	11.875	0.500	138.82
50011000	11.000	12.000	0.500	306.03
50011000N/4651	11.000	12.000	0.500	292.05
50011000Q	11.000	12.000	0.500	126.90
50011250*	11.250	12.250	0.500	146.76
50011500Q*	11.500	12.500	0.500	148.65
50011750*	11.750	12.750	0.500	153.00
50012000*	12.000	13.000	0.500	156.94
50012000Q*	12.000	13.000	0.500	171.60
50012750*	12.750	13.750	0.500	166.75
50013000	13.000	14.000	0.500	228.56
50013000N/4651	13.000	14.000	0.500	310.21
50013000Q	13.000	14.000	0.500	168.01
50013000Q/V	13.000	14.000	0.500	648.66
50013250Q*	13.250	14.250	0.500	175.36
50014000N/4651*	14.000	15.000	0.500	466.38
50014000Q*	14.000	15.000	0.500	185.73

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50014500*	14.500	15.500	0.500	194.57
50015000*	15.000	16.000	0.500	216.69
50015000Q	15.000	16.000	0.500	216.70
50015000Q/V*	15.000	16.000	0.500	709.78
50015500Q*	15.500	16.500	0.500	255.60
50015750*	15.750	16.750	0.500	274.70
50016000*	16.000	17.000	0.500	289.05
50016500Q*	16.500	17.500	0.500	292.21
50017000	17.000	18.000	0.500	295.88
50017500*	17.500	18.500	0.500	304.10
50018000*	18.000	19.000	0.500	420.13
50019000Q	19.000	20.000	0.500	441.13
50019500*	19.500	20.500	0.500	502.12
50020000*	20.000	21.000	0.500	509.82
50021000*	21.000	22.000	0.500	550.92
50021875*	21.875	22.875	0.500	561.13
50023000*	23.000	24.000	0.500	763.28
50023000N/4651*	23.000	24.000	0.500	1359.07
50023500*	23.500	24.500	0.500	823.64
50025000Q*	25.000	26.000	0.500	852.38
50026000*	26.000	27.000	0.500	884.78
50026500*	26.500	27.500	0.500	901.07
50027000*	27.000	28.000	0.500	928.48
50028000*	28.000	29.000	0.500	946.33
50028500*	28.500	29.500	0.500	1015.39
50031000*	31.000	32.000	0.500	1044.44
50032000*	32.000	33.000	0.500	1392.16
50036000*	36.000	37.000	0.500	1433.02
50036750*	36.750	37.750	0.500	1445.80
50040000*	40.000	41.000	0.500	1466.35
50041000*	41.000	42.000	0.500	1494.32
17/32" - Cross Section - 0.531"				
53101625*	1.625	2.687	0.531	41.74
9/16" - Cross Section - 0.562"				
56202500*	2.500	3.625	0.562	54.14
56202625*	2.625	3.750	0.562	70.43
56204125*	4.125	5.250	0.562	83.10
56205500*	5.500	6.625	0.562	88.07
56206750*	6.750	7.875	0.562	100.61
5/8" - Cross Section - 0.625"				
62501250*	1.250	2.500	0.625	29.92

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STD series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/8" - Cross Section - 0.625"				
62501750*	1.750	3.000	0.625	42.34
62501812*	1.812	3.062	0.625	40.51
62502000*	2.000	3.250	0.625	42.87
62502250*	2.250	3.500	0.625	46.66
62502375*	2.375	3.625	0.625	48.23
62502500	2.500	3.750	0.625	50.36
62502750	2.750	4.000	0.625	47.88
62502812*	2.812	3.937	0.625	49.22
62503000*	3.000	4.250	0.625	49.45
62503250	3.250	4.500	0.625	55.37
62503375*	3.375	4.625	0.625	62.73
62503500	3.500	4.750	0.625	103.19
62503750	3.750	5.000	0.625	67.67
62503875*	3.875	5.000	0.625	68.40
62504000*	4.000	5.250	0.625	73.36
62504250	4.250	5.500	0.625	76.02
62504500*	4.500	5.750	0.625	78.98
62504625*	4.625	5.750	0.625	81.18
62504750	4.750	6.000	0.625	77.47
62505000*	5.000	6.250	0.625	86.97
62505250Q*	5.250	6.500	0.625	87.25
62505500*	5.500	6.750	0.625	100.94
62505750*	5.750	7.000	0.625	O/R
62505750Q	5.750	7.000	0.625	94.67
62505750Q/V*	5.750	7.000	0.625	423.27
62506000*	6.000	7.250	0.625	103.33
62506250*	6.250	7.500	0.625	105.32
62506500*	6.500	7.750	0.625	115.92
62506625*	6.625	7.875	0.625	121.76
62506750	6.750	8.000	0.625	123.35
62506812*	6.812	7.937	0.625	124.67
62506875*	6.875	8.125	0.625	126.63
62507000*	7.000	8.250	0.625	127.37
62507250*	7.250	8.500	0.625	137.18
62507750*	7.750	9.000	0.625	139.58
62508000*	8.000	9.250	0.625	143.87
62508187*	8.187	9.437	0.625	144.42
62508250*	8.250	9.500	0.625	147.98
62508375*	8.375	9.625	0.625	151.49
62508500*	8.500	9.750	0.625	152.45
62508625*	8.625	9.875	0.625	154.03
62508750	8.750	10.000	0.625	155.88
62509000*	9.000	10.250	0.625	O/R
625090000Q*	9.000	10.250	0.625	161.70

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/8" - Cross Section - 0.625"				
62509250*	9.250	10.500	0.625	154.08
625092500Q*	9.250	10.500	0.625	O/R
62509500*	9.500	10.750	0.625	165.19
62509750*	9.750	11.000	0.625	170.80
625100000Q*	10.000	11.250	0.625	171.99
62510500*	10.500	11.750	0.625	172.23
62510750*	10.750	12.000	0.625	173.77
62511000*	11.000	12.250	0.625	174.75
62512000*	12.000	13.250	0.625	175.18
62512250*	12.250	13.500	0.625	176.62
625127500Q*	12.750	14.000	0.625	204.29
625127500Q/V*	12.750	14.000	0.625	1689.67
625130000Q*	13.000	14.250	0.625	312.21
62514750*	14.750	16.000	0.625	250.39
62515000*	15.000	16.250	0.625	256.27
62516750*	16.750	18.000	0.625	283.91
62518750*	18.750	20.000	0.625	456.74
62519250*	19.250	20.500	0.625	320.79
62520000*	20.000	21.250	0.625	325.71
62524000*	24.000	25.250	0.625	663.66
625247500Q*	24.750	26.000	0.625	806.56
11/16" Cross Section - 0.687"				
68703000N/4651*	3.000	4.374	0.687	150.99
68703000*	3.000	4.375	0.687	80.35
3/4" Cross Section - 0.750"				
75003000*	3.000	4.500	0.750	80.94
75003125*	3.125	4.625	0.750	81.17
75003500*	3.500	5.000	0.750	81.58
75003750*	3.750	5.250	0.750	87.90
75004000*	4.000	5.500	0.750	89.93
75004250	4.250	5.750	0.750	91.95
75004500*	4.500	6.000	0.750	126.51
75005000	5.000	6.500	0.750	107.99
75005500*	5.500	7.000	0.750	149.86
750060000Q*	6.000	7.500	0.750	106.52
750065000Q*	6.500	8.000	0.750	116.74
75007000*	7.000	8.500	0.750	156.34
75007500	7.500	9.000	0.750	157.36
75008000*	8.000	9.500	0.750	O/R
750080000Q*	8.000	9.500	0.750	167.00
75008250*	8.250	9.750	0.750	170.94
75008375*	8.375	9.875	0.750	172.40

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

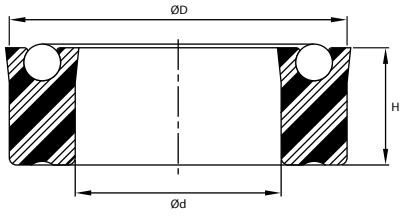
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/4" - Cross Section - 0.750"				
75008500Q	8.500	10.000	0.750	175.49
75009000*	9.000	10.500	0.750	184.38
75009500*	9.500	11.000	0.750	O/R
75009500Q	9.500	11.000	0.750	190.89
75010000*	10.000	11.500	0.750	232.46
75010500*	10.500	12.000	0.750	O/R
75010500Q	10.500	12.000	0.750	203.36
75010750*	10.750	12.250	0.750	243.17
75011000Q*	11.000	12.500	0.750	220.77
75012000*	12.000	13.500	0.750	319.33
75012000/HPU*	12.000	13.500	0.750	528.79
75012500Q	12.500	14.000	0.750	278.75
75012750/HPU*	12.750	14.250	0.750	714.46
75013000*	13.000	14.500	0.750	301.09
75013500*	13.500	15.000	0.750	O/R
75013500Q	13.500	15.000	0.750	320.21
75013750*	13.750	15.250	0.750	333.89
75014000	14.000	15.500	0.750	490.46
75014000Q*	14.000	15.500	0.750	330.67
75014250	14.250	15.750	0.750	676.63
75014500*	14.500	16.000	0.750	369.96
75014750*	14.750	16.250	0.750	426.47
75016000*	16.000	17.500	0.750	O/R
75016000Q*	16.000	17.500	0.750	446.23
75016500Q*	16.500	18.000	0.750	458.11
75018000Q*	18.000	19.500	0.750	468.48
75019000*	19.000	20.500	0.750	531.45
75020500*	20.500	22.000	0.750	552.42
75022000*	22.000	23.500	0.750	877.92
75022500*	22.500	24.000	0.750	895.37
75022500N/4651*	22.500	24.000	0.750	2142.93
75026000*	26.000	27.500	0.750	1021.52

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
7/8" - Cross Section - 0.875"				
87507750*	7.750	9.500	0.875	213.16
87508500*	8.500	10.250	0.875	252.91
87509750*	9.750	11.500	0.875	285.80
87516250*	16.250	18.000	0.875	O/R
87520000*	20.000	21.750	0.875	627.97
1" - Cross Section - 1.000"				
100003000*	3.000	5.000	1.000	124.00
100004000*	4.000	6.000	1.000	152.28
100004250*	4.250	6.250	1.000	118.96
100006000*	6.000	8.000	1.000	202.39
100007000*	7.000	9.000	1.000	226.34
100007500*	7.500	9.500	1.000	240.20
100008000*	8.000	10.000	1.000	253.61
100010000*	10.000	12.000	1.000	O/R
100010000Q*	10.000	12.000	1.000	308.05
100011750*	11.750	13.750	1.000	O/R
100012000*	12.000	14.000	1.000	424.18
100012500*	12.500	14.500	1.000	472.47
100014000*	14.000	16.000	1.000	536.19
100014500*	14.500	16.500	1.000	O/R
100016000*	16.000	18.000	1.000	708.82
100018500*	18.500	20.500	1.000	O/R
100023375*	23.375	25.375	1.000	O/R
100028000*	28.000	30.000	1.000	2173.89
1 1/8" - Cross Section - 1.125"				
112510000*	10.000	12.250	1.125	354.83
112512000*	12.000	14.250	1.125	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Deep Loaded U-Cups - Rod/Piston Seals - Inch





Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-40°F to +230°F (-40°C to +110°C)	≤5000 psi (≤ 345 bar)	<3.3 ft/s (1 m/s)
P, 4651 = High Perf. Urethane	-40°F to +248°F (-40°C to +120°C)	≤6000 psi (≤ 414 bar)	
V = FPM	-20°F to +400°F (-29°C to +204°C)	≤2000 psi (≤ 138 bar)	

Deep Loaded U-Cups are a squeeze seal with a symmetrical profile for use in either rod or piston applications. Its rectangular shape ensures stability in the gland.**Deep Loaded U-Cups** straight cut scraper lip design cuts fluid film and moves contamination away from the seal.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500250-250	0.250	0.500	0.250	6.41
12500250N250/P	0.250	0.500	0.250	O/R
12500312-250*	0.312	0.562	0.250	7.44
12500437-250*	0.437	0.687	0.250	7.72
12500500-250*	0.500	0.750	0.250	7.28
12500500N250/P	0.500	0.750	0.250	O/R
12500625-187	0.625	0.875	0.187	7.95
12500625-250	0.625	0.875	0.250	10.90
12500687-250	0.687	0.937	0.250	11.01
12500750-250	0.750	1.000	0.250	7.82
12500750N250/4651*	0.750	1.000	0.250	18.10
12500875-187	0.875	1.125	0.187	9.40
12500875-250	0.875	1.125	0.250	10.05
12501000-172*	1.000	1.250	0.172	11.58
12501000-250	1.000	1.250	0.250	8.47
12501000N250/P	1.000	1.250	0.250	O/R
12501000Q250/V	1.000	1.250	0.250	42.66
12501000V250/P	1.000	1.250	0.250	O/R
12501125-250	1.125	1.375	0.250	10.90
12501125Q250/V	1.125	1.375	0.250	49.44
12501187-187*	1.187	1.437	0.187	11.07
12501250-187	1.250	1.500	0.187	12.87
12501250-250	1.250	1.500	0.250	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12501250N250/P	1.250	1.500	0.250	O/R
12501250Q250	1.250	1.500	0.250	11.58
12501375-187	1.375	1.625	0.187	O/R
12501375-250	1.375	1.625	0.250	12.10
12501375Q187*	1.375	1.625	0.187	11.97
12501437-250*	1.437	1.687	0.250	12.48
12501500-250	1.500	1.750	0.250	11.98
12501500N250/P*	1.500	1.750	0.250	12.87
12501500Q312	1.500	1.750	0.312	12.68
12501625-250*	1.625	1.875	0.250	10.74
12501750-250	1.750	2.000	0.250	10.80
12502000-250	2.000	2.250	0.250	9.61
12502125-250	2.125	2.375	0.250	O/R
12502250-375	2.250	2.500	0.375	O/R
12502375-250*	2.375	2.625	0.250	15.87
12502500Q250	2.500	2.750	0.250	27.06
12503000Q250	3.000	3.250	0.250	19.23
12503500-250*	3.500	3.750	0.250	19.39
3/16" - Cross Section - 0.187"				
18700250-312*	0.250	0.625	0.312	6.64
18700375-312*	0.375	0.750	0.312	7.81
18700437-312*	0.437	0.812	0.312	7.89

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18700625-312*	0.625	1.000	0.312	7.68
18700750-250*	0.750	1.125	0.250	15.53
18700750-312	0.750	1.125	0.312	16.30
18700812-312*	0.812	1.187	0.312	9.11
18700875-312	0.875	1.250	0.312	9.34
18700875-375*	0.875	1.250	0.375	10.35
18701000-250	1.000	1.375	0.250	9.78
18701000-312	1.000	1.375	0.312	10.50
18701000N312/P	1.000	1.375	0.312	11.73
18701062-312*	1.062	1.437	0.312	9.92
18701125-250	1.125	1.500	0.250	10.95
18701125-312	1.125	1.500	0.312	11.47
18701250-312	1.250	1.625	0.312	12.46
18701375-312	1.375	1.750	0.312	12.46
18701375-375	1.375	1.750	0.375	12.71
18701375Q312/V	1.375	1.750	0.312	89.25
18701437-312*	1.437	1.812	0.312	14.24
18701500-281	1.500	1.875	0.281	14.37
18701500-375*	1.500	1.875	0.375	14.37
18701500N375/P	1.500	1.875	0.375	O/R
18701562-250*	1.562	1.937	0.250	17.63
18701625-250	1.625	2.000	0.250	22.18
18701625-312	1.625	2.000	0.312	16.62
18701625-375	1.625	2.000	0.375	18.12
18701625Q375/V	1.625	2.000	0.375	50.48
18701625V312/P	1.625	2.000	0.375	O/R
18701687Q375*	1.687	2.062	0.375	22.38
18701750-250	1.750	2.125	0.250	O/R
18701750-375	1.750	2.125	0.375	12.70
18701750N375/P	1.750	2.125	0.375	O/R
18701875-250	1.875	2.250	0.250	O/R
18701875-375	1.875	2.250	0.375	13.06
18701937-375*	1.937	2.312	0.375	14.21
18702000-270	2.000	2.375	0.270	O/R
18702000N375/P	2.000	2.375	0.375	O/R
18702000Q375	2.000	2.375	0.375	16.53
18702000V375/P	2.000	2.375	0.375	O.R
18702125-250	2.125	2.500	0.250	13.30
18702125-375	2.125	2.500	0.375	19.16
18702125N250/P	2.125	2.500	0.250	O/R
18702125V375/P	2.125	2.500	0.375	O/R
18702187-375	2.187	2.562	0.375	13.96
18702250-312	2.250	2.625	0.312	14.13
18702250-375	2.250	2.625	0.375	14.64

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18702375-375	2.375	2.750	0.375	14.67
18702500-375	2.500	2.875	0.375	15.76
18702500-375/V*	2.500	2.875	0.375	89.45
18702500N375/P	2.500	2.875	0.375	O/R
18702500Q250/V	2.500	2.875	0.250	68.67
18702625-312	2.625	3.000	0.312	15.90
18702625-375*	2.625	3.000	0.375	16.39
18702625N375/P	2.625	3.000	0.375	O/R
18702625V375/P	2.625	3.000	0.375	O/R
18702750-330	2.750	3.125	0.330	60.96
18702750-330/4304	2.750	3.125	0.330	O/R
18702750-375	2.750	3.125	0.375	17.15
18702875-250	2.875	3.250	0.250	18.33
18703000-375	3.000	3.375	0.375	18.98
18703000-375/V*	3.000	3.375	0.375	126.30
18703000N375/P	3.000	3.375	0.375	O/R
18703125-250	3.125	3.500	0.250	18.70
18703125-375	3.125	3.500	0.375	18.70
18703125N375/P	3.125	3.500	0.375	O/R
18703187-375*	3.187	3.562	0.375	19.16
18703250-312*	3.250	3.625	0.312	19.81
18703250-375	3.250	3.625	0.375	19.81
18703375-375*	3.375	3.750	0.375	22.51
18703500-375	3.500	3.875	0.375	22.74
18703500-375/4615	3.500	3.875	0.375	42.24
18703625-312*	3.625	4.000	0.312	23.09
18703625-375	3.625	4.000	0.375	25.07
18703625N375/P	3.625	4.000	0.375	O/R
18703750-375	3.750	4.125	0.375	25.25
18703875-250	3.875	4.250	0.250	25.64
18704000-375	4.000	4.375	0.375	27.93
18704125-250*	4.125	4.500	0.250	29.37
18704125-312	4.125	4.500	0.312	O/R
18704125-375	4.125	4.500	0.375	29.37
18704187-375*	4.187	4.562	0.375	30.17
18704250-312*	4.250	4.625	0.312	30.83
18704250-375	4.250	4.625	0.375	30.32
18704375-375	4.375	4.750	0.375	34.22
18704500-375*	4.500	4.875	0.375	34.45
18704625-312*	4.625	5.000	0.312	36.11
18704625-375	4.625	5.000	0.375	36.62
18704875-250*	4.875	5.250	0.250	37.14
18704875-562*	4.875	5.250	0.562	50.71
18705000-312	5.000	5.375	0.312	O/R

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Deep series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18705000-375*	5.000	5.375	0.375	52.71
18706000-375*	6.000	6.375	0.375	39.68
18707500-250*	7.500	7.875	0.250	62.42
7/32" - Cross Section - 0.218"				
21802000-375	2.000	2.437	0.375	O/R
0.235" - Cross Section - 0.235"				
23505000-350	5.000	5.470	0.350	165.76
23506500-450	6.500	6.970	0.450	219.92
23508000-350	8.000	8.470	0.350	231.20
23509000-450	9.000	9.470	0.450	306.56
23510000-350	10.000	10.470	0.350	354.88
1/4" - Cross Section - 0.250"				
25000375-375*	0.375	0.875	0.375	10.70
25000437-375*	0.437	0.937	0.375	10.87
25000500-375*	0.500	1.000	0.375	11.45
25000625-375*	0.625	1.125	0.375	9.64
25000750-375	0.750	1.250	0.375	9.64
25000875-375*	0.875	1.375	0.375	12.77
25001000-375	1.000	1.500	0.375	9.47
25001125-375	1.125	1.625	0.375	9.74
25001250-375	1.250	1.750	0.375	11.27
25001250-375/V*	1.250	1.750	0.375	147.22
25001250N375/P	1.250	1.750	0.375	O/R
25001375-375	1.375	1.875	0.375	11.70
25001375N375/P	1.375	1.875	0.375	O/R
25001500-203*	1.500	2.000	0.203	11.33
25001500-312	1.500	2.000	0.312	11.44
25001500-375	1.500	2.000	0.375	11.98
25001750-375	1.750	2.250	0.375	12.71
25001750N375/P	1.750	2.250	0.375	O/R
25001750Q500	1.750	2.250	0.500	14.34
25002000-375	2.000	2.500	0.375	14.34
25002000N375/P	2.000	2.500	0.375	O/R
25002000Q375/V	2.000	2.500	0.375	53.44
25002125-375	2.125	2.625	0.375	14.67
25002250-375	2.250	2.750	0.375	18.52
25002250-562	2.250	2.750	0.562	15.57
25002250N375/P	2.250	2.750	0.375	O/R
25002500-203*	2.500	3.000	0.203	16.62
25002500-312	2.500	3.000	0.312	17.10
25002500-375	2.500	3.000	0.375	17.73

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25002500N375/4651	2.500	3.000	0.375	37.87
25002500N375/P	2.500	3.000	0.375	22.97
25002500Q375/V	2.500	3.000	0.375	73.24
25002500U375*	2.500	3.000	0.375	39.98
25002500V375/P	2.500	3.000	0.375	O/R
25002625-375*	2.625	3.125	0.375	19.71
25002750-288*	2.750	3.250	0.288	26.67
25002750-375	2.750	3.250	0.375	19.36
25003000-203	3.000	3.500	0.203	19.38
25003000-375	3.000	3.500	0.375	20.91
25003000-562*	3.000	3.500	0.562	20.26
25003000N375/P	3.000	3.500	0.375	27.23
25003125-375	3.125	3.625	0.375	20.94
25003250-375	3.250	3.750	0.375	22.54
25003250N375/P	3.250	3.750	0.375	O/R
25003375-375*	3.375	3.875	0.375	25.23
25003500-203	3.500	4.000	0.203	22.28
25003500-312*	3.500	4.000	0.312	23.28
25003500-375	3.500	4.000	0.375	27.86
25003500-500	3.500	4.000	0.500	O/R
25003500N375/P	3.500	4.000	0.375	31.32
25003500Q375/V	3.500	4.000	0.375	90.21
25003500Q500	3.500	4.000	0.500	28.99
25003500V375/P	3.500	4.000	0.375	O/R
25003625-375*	3.625	4.125	0.375	25.75
25003750-375	3.750	4.250	0.375	31.49
25003750-562	3.750	4.250	0.562	30.95
25003750N375/P	3.750	4.250	0.375	O/R
25003750Q375*	3.750	4.250	0.375	26.37
25003875-375	3.875	4.375	0.375	O/R
25004000-375	4.000	4.500	0.375	27.74
25004000-500	4.000	4.500	0.500	O/R
25004000-562	4.000	4.500	0.562	27.23
25004000N375/P	4.000	4.500	0.375	O/R
25004125-375*	4.125	4.625	0.375	27.54
25004250-375	4.250	4.750	0.375	28.99
25004250-562	4.250	4.750	0.562	33.23
25004250N562/P	4.250	4.750	0.562	O/R
25004375-562*	4.375	4.875	0.562	31.73
25004500-203*	4.500	5.000	0.203	27.80
25004500-312	4.500	5.000	0.312	31.13
25004500-375	4.500	5.000	0.375	32.92
25004500-500	4.500	5.000	0.500	O/R
25004500-562	4.500	5.000	0.562	32.29

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25004500N375/P	4.500	5.000	0.375	O/R
25004500N562/P	4.500	5.000	0.562	O/R
25004500Q375/V	4.500	5.000	0.375	136.26
25004750-562*	4.750	5.250	0.562	36.15
25004875-562*	4.875	5.375	0.562	36.26
25005000-375	5.000	5.500	0.375	60.44
25005000-440*	5.000	5.500	0.440	45.93
25005000-500	5.000	5.500	0.500	O/R
25005000-562	5.000	5.500	0.562	38.10
25005000N562/P	5.000	5.500	0.562	47.98
25005250-562*	5.250	5.750	0.562	36.92
25005250Q375	5.250	5.750	0.375	41.96
25005375-375*	5.375	5.875	0.375	41.57
25005500-375	5.500	6.000	0.375	54.51
25005500-500	5.500	6.000	0.500	O/R
25005500-562	5.500	6.000	0.562	44.49
25005500-625	5.500	6.000	0.625	O/R
25005500N562/P	5.500	6.000	0.562	56.18
25005750-562	5.750	6.250	0.562	48.43
25005875-562*	5.875	6.375	0.562	46.58
25006000-375	6.000	6.500	0.375	O/R
25006000-440	6.000	6.500	0.440	O/R
25006000-562	6.000	6.500	0.562	60.74
25006000Q375*	6.000	6.500	0.375	49.56
25006000Q375/V*	6.000	6.500	0.375	255.93
25006250-562*	6.250	6.750	0.562	50.18
25006500-375	6.500	7.000	0.375	54.88
25006500-440	6.500	7.000	0.440	O/R
25006500-562	6.500	7.000	0.562	87.29
25006500N375/4651*	6.500	7.000	0.375	118.65
25006500Q375	6.500	7.000	0.375	55.08
25006625-375*	6.625	7.125	0.375	53.85
25006750-562*	6.750	7.250	0.562	60.78
25006750Q562*	6.750	7.250	0.562	60.19
25006875N562/4651*	6.875	7.375	0.562	119.28
25007000-375	7.000	7.500	0.375	53.58
25007000-562*	7.000	7.500	0.562	53.58
25007000N562/P	7.000	7.500	0.562	O/R
25007437-562*	7.437	7.937	0.562	85.83
25007500-375	7.500	8.000	0.375	O/R
25007500-562	7.500	8.000	0.562	80.39
25007500-625	7.500	8.000	0.625	O/R
25007500N562/P	7.500	8.000	0.562	77.81
25007500Q562/V	7.500	8.000	0.562	247.26

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25007750-375*	7.750	8.250	0.375	71.89
25007750-562*	7.750	8.250	0.562	72.60
25007750Q375*	7.750	8.250	0.375	71.87
25008000-375*	8.000	8.500	0.375	104.63
25008000-562*	8.000	8.500	0.562	73.27
25008250-562*	8.250	8.750	0.562	75.25
25008500-375	8.500	9.000	0.375	O/R
25008500-375/SS316*	8.500	9.000	0.375	422.52
25008500-562	8.500	9.000	0.562	75.59
25008750-562	8.750	9.250	0.562	O/R
25009000-375*	9.000	9.500	0.375	77.98
25009000-440*	9.000	9.500	0.440	88.45
25009000-562	9.000	9.500	0.562	79.88
25009000Q375	9.000	9.500	0.375	86.36
25009000V210/GF15*	9.000	9.500	0.210	182.48
25009250-562*	9.250	9.750	0.562	81.11
25009500-375	9.500	10.000	0.375	O/R
25009500-562	9.500	10.000	0.562	98.13
25010000-375*	10.000	10.500	0.375	250.21
25010500-500	10.500	11.000	0.500	O/R
25010500N500/4651*	10.500	11.000	0.500	200.83
25013000-562	13.000	13.500	0.562	O/R
25014000-375*	14.000	14.500	0.375	144.43
25014500-375*	14.500	15.000	0.375	195.95
25015750-562*	15.750	16.250	0.562	177.65
25016000-375	16.000	16.500	0.375	O/R
25019500-312	19.500	20.000	0.312	O/R
25021000-312	21.000	21.500	0.312	O/R
25022500-312*	22.500	23.000	0.312	260.36
9/32" - Cross Section - 0.281"				
28103687-375*	3.687	4.250	0.375	29.52
28103875-500*	3.875	4.437	0.500	42.53
19/64" - Cross Section - 0.297"				
29703343-470*	3.343	3.937	0.470	37.12
5/16" - Cross Section - 0.312"				
31200750-500*	0.750	1.375	0.500	11.81
31201000-500*	1.000	1.625	0.500	11.30
31201125-500*	1.125	1.750	0.500	13.08
31201187-500	1.187	1.812	0.500	19.13
31201250-500	1.250	1.875	0.500	O/R
312012500500	1.250	1.875	0.500	22.05

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Deep series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31201375-500	1.375	2.000	0.500	12.17
31201500-500	1.500	2.125	0.500	14.56
31201687-500*	1.687	2.312	0.500	20.89
31201750-500	1.750	2.375	0.500	16.19
31201875-500*	1.875	2.500	0.500	16.62
31202000-500	2.000	2.625	0.500	17.29
31202125-500*	2.125	2.750	0.500	19.61
31202250-500*	2.250	2.875	0.500	24.41
31202375-500	2.375	3.000	0.500	19.82
31202500-500	2.500	3.125	0.500	19.93
31202500Q500/V*	2.500	3.125	0.500	85.20
31202625-500*	2.625	3.250	0.500	22.82
31202625Q500	2.625	3.250	0.500	25.15
31202750-500	2.750	3.375	0.500	22.95
31202875-500	2.875	3.500	0.500	23.27
31203000-500	3.000	3.625	0.500	23.39
31203000-562*	3.000	3.625	0.562	27.27
31203000N375/P	3.000	3.625	0.375	O/R
31203250-500*	3.250	3.875	0.500	29.62
31203250-500/V*	3.250	3.875	0.500	335.46
31203375-500	3.375	4.000	0.500	26.96
31203375Q500/V*	3.375	4.000	0.500	123.45
31203500-500	3.500	4.125	0.500	31.25
31203500N500/P	3.500	4.125	0.500	O/R
31203750-500*	3.750	4.375	0.500	31.80
31203875-500	3.875	4.500	0.500	32.55
31203875N500/4651*	3.875	4.500	0.500	85.20
31204000-500	4.000	4.625	0.500	32.66
31204000-562*	4.000	4.625	0.562	32.82
31204125-562*	4.125	4.750	0.562	40.77
31204250-562*	4.250	4.875	0.562	33.33
31204375-500	4.375	5.000	0.500	36.04
31204375-562	4.375	5.000	0.562	36.04
31204375-625*	4.375	5.000	0.625	34.29
31204375N500/P	4.375	5.000	0.500	O/R
31204500-625*	4.500	5.125	0.625	38.32
31204625-625*	4.625	5.250	0.625	40.21
31205000-625	5.000	5.625	0.625	45.39
31205125-625*	5.125	5.750	0.625	59.02
31205250-625*	5.250	5.875	0.625	59.65
31205375-625	5.375	6.000	0.625	45.25
31205375N625/P	5.375	6.000	0.625	O/R
31205500-625*	5.500	6.125	0.625	61.52
31206375-625*	6.375	7.000	0.625	61.79

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31206500-625*	6.500	7.125	0.625	62.29
31207000-375*	7.000	7.625	0.375	220.40
31207000-625*	7.000	7.625	0.625	64.84
31207375-625	7.375	8.000	0.625	68.00
31207500-625*	7.500	8.125	0.625	76.39
31207625-500*	7.625	8.250	0.500	79.26
31208375-625*	8.375	9.000	0.625	79.94
31209000-500*	9.000	9.625	0.500	84.47
31210500-375*	10.500	11.125	0.375	306.88
31213000-375*	13.000	13.625	0.375	447.92
31215375-625	15.375	16.000	0.625	O/R
11/32" - Cross Section - 0.343"				
34302812-375*	2.812	3.500	0.375	37.74
11/32" - Cross Section - 0.345"				
34502000-375*	2.000	2.690	0.375	29.19
3/8" - Cross Section - 0.375"				
37500750-625*	0.750	1.500	0.625	22.15
37501000-625	1.000	1.750	0.625	23.65
37501000Q625*	1.000	1.750	0.625	23.64
37501250-625*	1.250	2.000	0.625	17.19
37501312-437*	1.312	2.062	0.437	23.02
37501500-500*	1.500	2.250	0.500	18.72
37501500-625*	1.500	2.250	0.625	18.72
37501750-500	1.750	2.500	0.500	20.42
37501750-625*	1.750	2.500	0.625	20.61
37501875-625*	1.875	2.625	0.625	23.31
37502000-500	2.000	2.750	0.500	22.67
37502000-625*	2.000	2.750	0.625	62.86
37502000N500/P	2.000	2.750	0.500	O/R
37502000N625/4651*	2.000	2.750	0.625	54.60
37502125-625	2.125	2.875	0.625	26.60
37502250-500	2.250	3.000	0.500	25.20
37502250-625	2.250	3.000	0.625	27.23
37502500-500	2.500	3.250	0.500	27.58
37502500-625	2.500	3.250	0.625	50.88
37502500-937*	2.500	3.250	0.937	39.27
37502750-625*	2.750	3.500	0.625	30.17
37502750N625/P	2.750	3.500	0.625	O/R
37502750Q500	2.750	3.500	0.500	30.17
37503000-500	3.000	3.750	0.500	32.86
37503000-625	3.000	3.750	0.625	34.03

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37503250-500	3.250	4.000	0.500	34.92
37503250-625	3.250	4.000	0.625	36.15
37503250N625/P*	3.250	4.000	0.625	46.92
37503250Q625/V*	3.250	4.000	0.625	156.67
37503375-625*	3.375	4.125	0.625	35.76
37503375V625/P	3.375	4.125	0.625	O/R
37503500-500	3.500	4.250	0.500	37.38
37503500-625	3.500	4.250	0.625	38.70
37503750-500	3.750	4.500	0.500	39.78
37503750-625	3.750	4.500	0.625	37.91
37504000-500*	4.000	4.750	0.500	42.19
37504000-625	4.000	4.750	0.625	42.19
37504250-500*	4.250	5.000	0.500	44.14
37504250-625	4.250	5.000	0.625	45.73
37504250N500/P	4.250	5.000	0.500	O/R
37504250N625/P*	4.250	5.000	0.625	59.32
37504250Q625/V*	4.250	5.000	0.625	167.22
37504250V625/P	4.250	5.000	0.625	O/R
37504375-625*	4.375	5.125	0.625	48.69
37504500-500	4.500	5.250	0.500	46.36
37504500-625	4.500	5.250	0.625	46.36
37504625-625*	4.625	5.375	0.625	49.11
37504750-500	4.750	5.500	0.500	49.82
37504750-625	4.750	5.500	0.625	50.19
37505000-500	5.000	5.750	0.500	50.82
37505000-625	5.000	5.750	0.625	50.82
37505000N500/P	5.000	5.750	0.500	O/R
37505000N625/P	5.000	5.750	0.625	O/R
37505000V500/P	5.000	5.750	0.500	O/R
37505250-625	5.250	6.000	0.625	54.77
37505250N500/4651*	5.250	6.000	0.500	124.58
37505250N625/P*	5.250	6.000	0.625	70.56
37505250Q500	5.250	6.000	0.500	54.77
37505250Q625/V*	5.250	6.000	0.625	210.35
37505500-625	5.500	6.250	0.625	104.09
37505625-625*	5.625	6.375	0.625	58.03
37505750-500	5.750	6.500	0.500	53.81
37505750-625	5.750	6.500	0.625	61.62
37505750N625/P	5.750	6.500	0.625	O/R
37505750Q625/V*	5.750	6.500	0.625	268.65
37505750V625/P	5.750	6.500	0.625	O/R
37506000-625	6.000	6.750	0.625	59.04
37506250-500	6.250	7.000	0.500	62.42
37506250-625	6.250	7.000	0.625	61.23

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37506250N500/P	6.250	7.000	0.500	O/R
37506250N625/P*	6.250	7.000	0.625	81.12
37506250Q500/V*	6.250	7.000	0.500	228.37
37506500-500*	6.500	7.250	0.500	68.95
37506500-625	6.500	7.250	0.625	71.39
37506750-562*	6.750	7.500	0.562	76.79
37506750-625	6.750	7.500	0.625	77.73
37506750N562/4651*	6.750	7.500	0.562	155.27
37507000-500*	7.000	7.750	0.500	78.24
37507000-625	7.000	7.750	0.625	80.09
37507000N625/P	7.000	7.750	0.625	O/R
37507250-500	7.250	8.000	0.500	O/R
37507250-625	7.250	8.000	0.625	75.38
37507250N625/P	7.250	8.000	0.625	93.65
37507250Q500/V	7.250	8.000	0.500	279.34
37507250Q625/V	7.250	8.000	0.625	264.16
37507250V625/P	7.250	8.000	0.625	111.00
37507500-500*	7.500	8.250	0.500	82.87
37507500-625*	7.500	8.250	0.625	82.91
37507750-500*	7.750	8.500	0.500	83.55
37507750-625*	7.750	8.500	0.625	83.55
37508000-500*	8.000	8.750	0.500	80.27
37508000-625*	8.000	8.750	0.625	83.74
37508000N625/4651*	8.000	8.750	0.625	215.67
37508250-500*	8.250	9.000	0.500	84.68
37508250-625	8.250	9.000	0.625	84.78
37508250-625/4615*	8.250	9.000	0.625	135.21
37508250N625/P	8.250	9.000	0.625	106.23
37508250V625/P*	8.250	9.000	0.625	125.95
37508750-625	8.750	9.500	0.625	88.09
37508750-750*	8.750	9.500	0.750	100.87
37509000-625*	9.000	9.750	0.625	102.52
37509000Q625*	9.000	9.750	0.625	104.38
37509250-500	9.250	10.000	0.500	118.90
37509250N625/4651*	9.250	10.000	0.625	220.85
37509250Q625	9.250	10.000	0.625	119.03
37509250Q625/V*	9.250	10.000	0.625	436.01
37509625-625*	9.625	10.375	0.625	119.52
37509750-500*	9.750	10.500	0.500	120.03
37509750-625*	9.750	10.500	0.625	122.41
37509750N625/4651*	9.750	10.500	0.625	273.80
37510250-625	10.250	11.000	0.625	O/R
37510500-625*	10.500	11.250	0.625	166.14
37510750-625*	10.750	11.500	0.625	139.83

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Deep series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37510750N625/4651*	10.750	11.500	0.625	362.26
37511250-625*	11.250	12.000	0.625	148.21
37511250N625/4651*	11.250	12.000	0.625	364.25
375112500625	11.250	12.000	0.625	167.47
37511500-625	11.500	12.250	0.625	O/R
37512250-625*	12.250	13.000	0.625	163.88
37512500-625*	12.500	13.250	0.625	329.41
37513500-625*	13.500	14.250	0.625	217.57
37514750-625*	14.750	15.500	0.625	235.82
37515250-625	15.250	16.000	0.625	241.43
37516000-625*	16.000	16.750	0.625	281.91
37523250-625	23.250	24.000	0.625	O/R
37524000-625	24.000	24.750	0.625	O/R
37525500-625	25.500	26.250	0.625	O/R
37528750-625	28.750	29.500	0.625	O/R
37529000-625	29.000	29.750	0.625	O/R
37531500-625	31.500	32.250	0.625	O/R
37534000-625	34.000	34.750	0.625	O/R
37536000-625	36.000	36.750	0.625	O/R
7/16" - Cross Section - 0.437"				
43701000-562*	1.000	1.875	0.562	20.89
43702250-375*	2.250	3.125	0.375	26.74
43703000-687*	3.000	3.875	0.687	48.56
43704000-625*	4.000	4.875	0.625	52.57
43704750-625*	4.750	5.625	0.625	53.73
43705125-500*	5.125	6.000	0.500	57.20
43706750-750*	6.750	7.625	0.750	97.14
1/2" - Cross Section - 0.500"				
50001000-750*	1.000	2.000	0.750	27.68
50001500-750*	1.500	2.500	0.750	29.50
50001750-750	1.750	2.750	0.750	31.32
50002000-750*	2.000	3.000	0.750	32.07
50002500-750*	2.500	3.500	0.750	40.84
50003000-750	3.000	4.000	0.750	44.80
50003375-625*	3.375	4.375	0.625	51.78
50003500-750	3.500	4.500	0.750	51.77
50003750-687*	3.750	4.750	0.687	56.56
50004000-750	4.000	5.000	0.750	57.30
50004000N750/4651*	4.000	5.000	0.750	119.53
50004000Q670*	4.000	5.000	0.670	63.55
50004375-750*	4.375	5.375	0.750	63.55
50004500-750	4.500	5.500	0.750	68.30

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50004750-687*	4.750	5.750	0.687	71.74
50004875-562*	4.875	5.875	0.562	73.40
50005000-750	5.000	6.000	0.750	73.49
50005000N750/P	5.000	6.000	0.750	94.08
50005125-750*	5.125	6.125	0.750	75.82
50005500-750	5.500	6.500	0.750	76.81
50006000-750	6.000	7.000	0.750	76.96
50006000N750/4651*	6.000	7.000	0.750	267.75
50006500-750*	6.500	7.500	0.750	85.06
50007000-750	7.000	8.000	0.750	87.50
50007000N750/P*	7.000	8.000	0.750	113.63
500070000437	7.000	8.000	0.437	155.97
50007500-750	7.500	8.500	0.750	89.79
50007500N750/4651*	7.500	8.500	0.750	172.76
50008000-750	8.000	9.000	0.750	96.24
50008000N750/4651	8.000	9.000	0.750	219.69
50008250-750*	8.250	9.250	0.750	105.95
50008500-750	8.500	9.500	0.750	112.93
50008875-750*	8.875	9.875	0.750	165.54
50009000-440	9.000	10.000	0.440	O/R
50009000-750	9.000	10.000	0.750	O/R
50009000N750/4651*	9.000	10.000	0.750	306.58
500090000440*	9.000	10.000	0.440	145.70
500090000750	9.000	10.000	0.750	117.22
50009000V750/4651*	9.000	10.000	0.750	323.35
50009500-750	9.500	10.500	0.750	120.11
50009500N750/4651*	9.500	10.500	0.750	327.63
50010000-750	10.000	11.000	0.750	144.44
50010000N750/4651*	10.000	11.000	0.750	338.54
50010500-750*	10.500	11.500	0.750	168.81
50010625-750	10.625	11.625	0.750	O/R
50010750-750*	10.750	11.750	0.750	184.03
50011000-750*	11.000	12.000	0.750	266.78
50011000N750/4651*	11.000	12.000	0.750	459.29
500110000750	11.000	12.000	0.750	216.17
50011500-750*	11.500	12.500	0.750	220.96
50012500-750	12.500	13.500	0.750	O/R
50013000-750*	13.000	14.000	0.750	433.60
50013000N750/4651*	13.000	14.000	0.750	649.51
500130000750	13.000	14.000	0.750	251.35
500130000750/V*	13.000	14.000	0.750	1027.63
50013250-750	13.250	14.250	0.750	O/R
50013500-750	13.500	14.500	0.750	O/R
50014000-750*	14.000	15.000	0.750	338.24

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50015000-750*	15.000	16.000	0.750	490.78
50015000-750/V*	15.000	16.000	0.750	2825.77
50015000N750/4651*	15.000	16.000	0.750	728.01
50015000Q750	15.000	16.000	0.750	371.57
50015500-750*	15.500	16.500	0.750	430.90
50015500N750/4651	15.500	16.500	0.750	O/R
50015500Q750*	15.500	16.500	0.750	513.21
50016000-750*	16.000	17.000	0.750	386.23
50016500-750	16.500	17.500	0.750	O/R
50017000-750*	17.000	18.000	0.750	558.16
50017000Q750	17.000	18.000	0.750	400.03
50018000-750*	18.000	19.000	0.750	422.14
50018500-750	18.500	19.500	0.750	O/R
50019000-750*	19.000	20.000	0.750	493.62
50019000V750/4651*	19.000	20.000	0.750	871.46
50019500-750*	19.500	20.500	0.750	943.44
50020000-750	20.000	21.000	0.750	O/R
50020500-750*	20.500	21.500	0.750	476.91
50021000Q750	21.000	22.000	0.750	488.13
50021500-750	21.500	22.500	0.750	O/R
50022750-625	22.750	23.750	0.625	O/R
50025250-750	25.250	26.250	0.750	O/R
50027000-750	27.000	28.000	0.750	O/R
50027500-750*	27.500	28.500	0.750	1576.70
50028500-750	28.500	29.500	0.750	O/R
50028500V750/4651*	28.500	29.500	0.750	2891.10
50029000-750	29.000	30.000	0.750	O/R
50029000N750/4651*	29.000	30.000	0.750	1803.84
50030000-625	30.000	31.000	0.625	O/R
50033000-750	33.000	34.000	0.750	O/R
50037000-750	37.000	38.000	0.750	O/R
9/16" - Cross Section - 0.562"				
56201875-875*	1.875	3.000	0.875	37.34
56202250-875*	2.250	3.375	0.875	49.34
56202875-875*	2.875	4.000	0.875	51.71
5/8" - Cross Section - 0.625"				
62501875-1000*	1.875	3.125	1.000	45.33
62502750-1000*	2.750	4.000	1.000	60.80
62502875-1000*	2.875	4.125	1.000	73.24
62503500-1000*	3.500	4.750	1.000	85.44
62504750-1000*	4.750	6.000	1.000	89.19
62504750-750	4.750	6.000	0.750	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
9/16" - Cross Section - 0.562"				
62505500-1000*	5.500	6.750	1.000	107.22
62506500-1000*	6.500	7.750	1.000	120.43
62506750-1000*	6.750	8.000	1.000	137.61
62507125-1000*	7.125	8.375	1.000	181.32
62508750-1000*	8.750	10.000	1.000	247.39
62510000-1000*	10.000	11.250	1.000	219.63
62511000-1000	11.000	12.250	1.000	O/R
62512000-1000*	12.000	13.250	1.000	265.88
62512000-437	12.000	13.250	0.437	516.80
62512000Q437*	12.000	13.250	0.437	267.55
62512500-1000	12.500	13.750	1.000	O/R
62512750-1000*	12.750	14.000	1.000	448.13
62513250-437	13.250	14.500	0.437	1184.73
62514000-437	14.000	15.250	0.437	1058.43
62514000Q1000*	14.000	15.250	1.000	413.90
62514250-437	14.250	15.500	0.437	1099.47
62517500-1000	17.500	18.750	1.000	O/R
62518000-1250	18.000	19.250	1.250	O/R
3/4" - Cross Section - 0.750"				
75002000-1125*	2.000	3.500	1.125	54.54
75002750-1125*	2.750	4.250	1.125	67.81
75004750-1250*	4.750	6.250	1.250	103.80
75005500-1250*	5.500	7.000	1.250	117.19
75006250-1250*	6.250	7.750	1.250	125.21
75006500-1250*	6.500	8.000	1.250	129.80
75007000-1250*	7.000	8.500	1.250	138.87
75007500-1250*	7.500	9.000	1.250	147.85
75008500-1250*	8.500	10.000	1.250	246.86
75009000-1250*	9.000	10.500	1.250	188.46
75010500-1250	10.500	12.000	1.250	O/R
75011000-1250*	11.000	12.500	1.250	286.37
75014750-650	14.750	16.250	0.650	737.20
75015000-1250*	15.000	16.500	1.250	500.36
75016500-1250*	16.500	18.000	1.250	602.59
75018000-1250	18.000	19.500	1.250	O/R
75020000-1250	20.000	21.500	1.250	O/R
75021000-1250	21.000	22.500	1.250	O/R
75021500-1250	21.500	23.000	1.250	O/R
75022000-1250	22.000	23.500	1.250	O/R
75022250-1250	22.250	23.750	1.250	O/R
75022500-1250	22.500	24.000	1.250	O/R
75024000-1250	24.000	25.500	1.250	O/R

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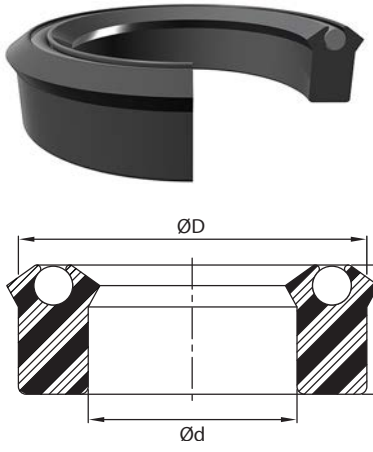
Deep series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
7/8" - Cross Section - 0.875"				
87505000-1000*	5.000	6.750	1.000	132.50
87513000-1375	13.000	14.750	1.375	O/R
87514000-1500	14.000	15.750	1.500	O/R
87516000-1250	16.000	17.750	1.250	O/R
87516000-1375	16.000	17.750	1.375	O/R
87518000-1250	18.000	19.750	1.250	O/R
87524000-1250	24.000	25.750	1.250	O/R
15/16" - Cross Section - 0.937"				
93709625-1500	9.625	11.500	1.500	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1" - Cross Section - 1.000"				
100005000-1500*	5.000	7.000	1.500	147.50
100012000-1500	12.000	14.000	1.500	O/R
100014000Q1500*	14.000	16.000	1.500	630.94
100016000-1250	16.000	18.000	1.250	O/R
100017000-1250	17.000	19.000	1.250	O/R
100020000-1500	20.000	22.000	1.500	O/R
100022000-1375	22.000	24.000	1.375	O/R
100025000-1343	25.000	27.000	1.343	O/R
100026000-1500	26.000	28.000	1.500	O/R
100029000-1500	29.000	31.000	1.500	O/R

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B Loaded U-Cups - Rod/Piston seals - Inch



Standard Materials	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-40°F to +230°F (-40°C to +110°C)	≤5000 psi (≤ 345 bar)	<3.3 ft/s (1 m/s)
P, 4651 = High Perf. Urethane	-40°F to +248°F (-40°C to +120°C)	≤6000 psi (≤ 414 bar)	
V = FPM	-20°F to +400°F (-29°C to +204°C)	≤2000 psi (≤ 138 bar)	

Type B Loaded U-Cups are a squeeze seal with a symmetrical profile for use in either rod or piston applications. The beveled lip design of the seal is excellent for cutting fluid film and is formed by a precision knife trimming process. **Type B Loaded U-Cups** are an economical choice as a stand-alone seal or can be used in tandem with a buffer seal. In piston applications. this seal should not be installed back-to-back in bidirectional pressure applications. as a pressure trap between the seals may occur.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500125Q125B*	0.125	0.375	0.125	7.44

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500125Q250B*	0.125	0.375	0.250	7.74

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500187-250B	0.187	0.437	0.250	6.53
12500187Q125B	0.187	0.437	0.125	6.44
12500250-187B	0.250	0.500	0.187	6.56
12500250-250B	0.250	0.500	0.250	6.72
12500250N250B/P*	0.250	0.500	0.250	8.18
12500250Q125B*	0.250	0.500	0.125	6.32
12500281-250B*	0.281	0.531	0.250	6.98
12500281Q250B*	0.281	0.531	0.250	6.98
12500312-125B	0.312	0.562	0.125	6.25
12500312-250B	0.312	0.562	0.250	7.17
12500375-125B	0.375	0.625	0.125	6.25
12500375-187B	0.375	0.625	0.187	7.21
12500375-250B*	0.375	0.625	0.250	8.33
12500375Q250B	0.375	0.625	0.250	7.17
12500437-250B	0.437	0.687	0.250	7.06
12500437Q125B*	0.437	0.687	0.125	6.32
12500500-125B	0.500	0.750	0.125	9.56
12500500-250B	0.500	0.750	0.250	7.40
12500500Q250B/V	0.500	0.750	0.250	27.62
12500562-125B	0.562	0.812	0.125	6.31
12500562Q250B	0.562	0.812	0.250	8.47
12500625-125B	0.625	0.875	0.125	6.39
12500625-187B	0.625	0.875	0.187	7.64
12500625-250B	0.625	0.875	0.250	7.64
12500625N250B/4651*	0.625	0.875	0.250	17.50
12500625Q125B/V	0.625	0.875	0.125	27.41
12500625Q250B/V	0.625	0.875	0.250	28.65
12500687-250B	0.687	0.937	0.250	7.59
12500687Q125B*	0.687	0.937	0.125	10.20
12500750-125B	0.750	1.000	0.125	9.17
12500750-187B	0.750	1.000	0.187	10.57
12500750-250B	0.750	1.000	0.250	7.92
12500750Q250B/V	0.750	1.000	0.250	29.68
12500750V125B/4651*	0.750	1.000	0.125	18.36
12500800-250B*	0.800	1.050	0.250	9.54
12500812-125B	0.812	1.062	0.125	6.86
12500812-250B	0.812	1.062	0.250	17.13
12500875-125B	0.875	1.125	0.125	6.86
12500875-187B	0.875	1.125	0.187	7.14
12500875-250B	0.875	1.125	0.250	8.21
12500937Q125B	0.937	1.187	0.125	8.44
12500937Q250B	0.937	1.187	0.250	8.47
12501000-125B	1.000	1.250	0.125	7.25
12501000-156B	1.000	1.250	0.156	7.25

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12501000-187B	1.000	1.250	0.187	10.92
12501000-250B	1.000	1.250	0.250	8.54
12501000N187B/P	1.000	1.250	0.187	11.81
12501000Q250B/V	1.000	1.250	0.250	32.14
12501062-170B*	1.062	1.312	0.170	8.08
12501062-250B	1.062	1.312	0.250	8.67
12501062Q125B	1.062	1.312	0.125	7.53
12501125-125B*	1.125	1.375	0.125	12.62
12501125-187B	1.125	1.375	0.187	12.62
12501125-250B	1.125	1.375	0.250	8.88
12501125-312B	1.125	1.375	0.312	8.77
12501125Q125B	1.125	1.375	0.125	7.64
12501187-187B	1.187	1.437	0.187	9.24
12501187-250B	1.187	1.437	0.250	9.39
12501187Q178B*	1.187	1.437	0.178	8.97
12501187Q250B/V*	1.187	1.437	0.250	42.40
12501250-125B*	1.250	1.500	0.125	9.58
12501250-187B	1.250	1.500	0.187	9.58
12501250-250B	1.250	1.500	0.250	9.26
12501250N250B/P	1.250	1.500	0.250	11.21
12501250Q125B	1.250	1.500	0.125	7.94
12501250Q250B	1.250	1.500	0.250	9.56
12501250Q250B/V	1.250	1.500	0.250	34.51
12501312Q125B*	1.312	1.562	0.125	8.44
12501312Q187B	1.312	1.562	0.187	9.53
12501375-125B	1.375	1.625	0.125	8.35
12501375-178B*	1.375	1.625	0.178	10.37
12501375-187B	1.375	1.625	0.187	10.37
12501375-250B	1.375	1.625	0.250	13.42
12501375-250B/V	1.375	1.625	0.250	84.40
12501437-125B	1.437	1.687	0.125	9.74
12501437-250B	1.437	1.687	0.250	9.64
12501500-125B	1.500	1.750	0.125	8.39
12501500-187B	1.500	1.750	0.187	10.08
12501500-250B	1.500	1.750	0.250	10.00
12501625-125B*	1.625	1.875	0.125	9.47
12501625-187B	1.625	1.875	0.187	9.47
12501625-250B	1.625	1.875	0.250	9.47
12501625Q125B	1.625	1.875	0.125	9.27
12501750-250B	1.750	2.000	0.250	10.73
12501750Q125B	1.750	2.000	0.125	9.10
12501875-125B	1.875	2.125	0.125	10.02
12501875-187B	1.875	2.125	0.187	10.02
12501875-250B	1.875	2.125	0.250	10.02

B series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12502000-187B	2.000	2.250	0.187	23.45
12502000-250B	2.000	2.250	0.250	15.85
12502125-250B	2.125	2.375	0.250	13.07
12502250-250B	2.250	2.500	0.250	9.57
12502250Q250B/V*	2.250	2.500	0.250	65.32
12502375-187B*	2.375	2.625	0.187	10.62
12502375Q250B*	2.375	2.625	0.250	11.41
12502500-125B	2.500	2.750	0.125	9.91
12502500-250B	2.500	2.750	0.250	12.96
12502750Q250B	2.750	3.000	0.250	13.30
12502875-250B*	2.875	3.125	0.250	14.13
12503625-187B*	3.625	3.875	0.187	17.29
12503875-250B*	3.875	4.125	0.250	21.22
12504000Q125B*	4.000	4.250	0.125	21.52
12504250Q125B*	4.250	4.500	0.125	24.81
12504500-187B*	4.500	4.750	0.187	28.34
12504875-250B*	4.875	5.125	0.250	27.67
12506250-125B*	6.250	6.500	0.125	30.32
5/32" - Cross Section - 0.156"				
15601000-230B	1.000	1.312	0.230	9.81
15601000Q156B	1.000	1.312	0.156	11.00
15601500-312B*	1.500	1.812	0.312	11.90
15601500Q312B	1.500	1.812	0.312	11.90
11/32" - Cross Section - 0.160"				
16006630-290B*	6.630	6.950	0.290	O/R
3/16" - Cross Section - 0.187"				
18700187-187B	0.187	0.562	0.187	6.49
18700250-187B	0.250	0.625	0.187	6.49
18700250-312B*	0.250	0.625	0.312	9.74
18700312-187B	0.312	0.687	0.187	6.46
18700312-312B*	0.312	0.687	0.312	7.54
18700375-187B*	0.375	0.750	0.187	7.54
18700375-312B	0.375	0.750	0.312	14.16
18700437-312B	0.437	0.812	0.312	10.12
18700500-250B	0.500	0.875	0.250	8.55
18700500-312B	0.500	0.875	0.312	6.70
18700500N312B/P*	0.500	0.875	0.312	8.18
18700500Q187B*	0.500	0.875	0.187	8.55
18700562Q312B*	0.562	0.937	0.312	10.15
18700625-312B	0.625	1.000	0.312	7.86
18700625Q187B*	0.625	1.000	0.187	6.97

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18700687-312B*	0.687	1.062	0.312	7.72
18700750-187B	0.750	1.125	0.187	7.29
18700750-250B	0.750	1.125	0.250	8.42
18700750-312B	0.750	1.125	0.312	8.55
18700750-375B	0.750	1.125	0.375	8.75
18700750Q312B/V*	0.750	1.125	0.312	32.40
18700812-187B*	0.812	1.187	0.187	6.02
18700812-312B	0.812	1.187	0.312	8.75
18700875-187B	0.875	1.250	0.187	8.05
18700875-312B	0.875	1.250	0.312	9.07
18700937-312B	0.937	1.312	0.312	15.26
18701000-250B	1.000	1.375	0.250	8.97
18701000-287B*	1.000	1.375	0.287	13.21
18701000-312B	1.000	1.375	0.312	9.10
18701000-312B/V	1.000	1.375	0.312	29.40
18701000-375B	1.000	1.375	0.375	9.28
18701000N312B/P*	1.000	1.375	0.312	14.33
18701000Q187B	1.000	1.375	0.187	8.12
18701000Q250B*	1.000	1.375	0.250	9.10
18701000Q312B	1.000	1.375	0.312	9.10
18701000Q312B/V*	1.000	1.375	0.312	34.28
18701062-312B	1.062	1.437	0.312	9.09
18701125-187B	1.125	1.500	0.187	8.54
18701125-250B	1.125	1.500	0.250	7.76
18701125-312B	1.125	1.500	0.312	9.54
18701125-375B	1.125	1.500	0.375	10.42
18701125N312B/4651*	1.125	1.500	0.312	21.65
18701125Q312B/V	1.125	1.500	0.312	35.79
18701125Q375B	1.125	1.500	0.375	10.57
18701187-187B*	1.187	1.562	0.187	9.15
18701187-250B*	1.187	1.562	0.250	9.15
18701187-312B*	1.187	1.562	0.312	9.15
18701187Q187B*	1.187	1.562	0.187	9.15
18701187Q250B	1.187	1.562	0.250	9.73
18701187Q312B	1.187	1.562	0.312	11.38
18701250-187B	1.250	1.625	0.187	8.77
18701250-250B	1.250	1.625	0.250	10.29
18701250-266B*	1.250	1.625	0.266	9.79
18701250-312B	1.250	1.625	0.312	9.79
18701250-375B	1.250	1.625	0.375	10.15
18701250N375B/P	1.250	1.625	0.375	22.38
18701250Q266B	1.250	1.625	0.266	9.75
18701250Q312B	1.250	1.625	0.312	9.04
18701250Q312B/V	1.250	1.625	0.312	36.76

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18701312-187B*	1.312	1.687	0.187	9.88
18701312-312B	1.312	1.687	0.312	10.04
18701312N312B/4651*	1.312	1.687	0.312	22.91
18701312Q187B	1.312	1.687	0.187	9.52
18701375-187B*	1.375	1.750	0.187	10.64
18701375-250B	1.375	1.750	0.250	10.64
18701375-312B	1.375	1.750	0.312	10.37
18701375-375B	1.375	1.750	0.375	10.62
18701375N312B/P	1.375	1.750	0.312	11.93
18701375Q187B	1.375	1.750	0.187	9.23
18701375Q187B/V*	1.375	1.750	0.187	37.64
18701375Q250B/V	1.375	1.750	0.250	40.66
18701375Q312B/V	1.375	1.750	0.312	38.68
18701437-312B*	1.437	1.812	0.312	10.78
18701437Q312B	1.437	1.812	0.312	10.78
18701500-187B	1.500	1.875	0.187	9.50
18701500-250B	1.500	1.875	0.250	10.32
18701500-312B	1.500	1.875	0.312	12.08
18701500-375B	1.500	1.875	0.375	10.53
18701500-375B/4615	1.500	1.875	0.375	10.53
18701500-406B	1.500	1.875	0.406	9.61
18701500N187B/P*	1.500	1.875	0.187	11.63
18701500N250B/P	1.500	1.875	0.250	11.60
18701500N375B/P	1.500	1.875	0.375	32.75
18701500Q250B	1.500	1.875	0.250	10.46
18701500Q250B/V	1.500	1.875	0.250	40.97
18701500Q266B	1.500	1.875	0.266	10.48
18701500Q375B/V	1.500	1.875	0.375	40.66
18701562-375B*	1.562	1.937	0.375	10.74
18701562Q187B*	1.562	1.937	0.187	10.74
18701562Q375B	1.562	1.937	0.375	10.90
18701625-187B	1.625	2.000	0.187	9.74
18701625-250B	1.625	2.000	0.250	11.58
18701625-266B*	1.625	2.000	0.266	11.58
18701625-312B	1.625	2.000	0.312	11.74
18701625-375B	1.625	2.000	0.375	11.21
18701625N375B/P	1.625	2.000	0.375	12.31
18701625Q375B/V*	1.625	2.000	0.375	42.08
18701625V312B/P	1.625	2.000	0.312	14.56
18701687-187B*	1.687	2.062	0.187	14.46
18701687Q187B	1.687	2.062	0.187	14.46
18701750-187B	1.750	2.125	0.187	21.59
18701750-230B	1.750	2.125	0.230	11.89
18701750-312B	1.750	2.125	0.312	11.89

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18701750-375B	1.750	2.125	0.375	11.89
18701750-375B/NX*	1.750	2.125	0.375	11.89
18701750N230B/P*	1.750	2.125	0.230	15.10
18701750N375B/P	1.750	2.125	0.375	15.10
18701750Q250B	1.750	2.125	0.250	14.06
18701750Q250B/V*	1.750	2.125	0.250	46.17
18701750Q266B	1.750	2.125	0.266	11.89
18701750Q312B/V	1.750	2.125	0.312	46.38
18701750Q375B/V	1.750	2.125	0.375	44.56
18701875-187B	1.875	2.250	0.187	10.18
18701875-266B*	1.875	2.250	0.266	12.38
18701875-375B	1.875	2.250	0.375	12.57
18701875Q266B	1.875	2.250	0.266	10.34
18701875Q375B/V*	1.875	2.250	0.375	45.10
18701937-281B*	1.937	2.312	0.281	11.43
18702000-230B*	2.000	2.375	0.230	13.24
18702000-250B	2.000	2.375	0.250	12.14
18702000-275B*	2.000	2.375	0.275	15.46
18702000-312B	2.000	2.375	0.312	13.24
18702000-375B	2.000	2.375	0.375	13.24
18702000N312B/4651*	2.000	2.375	0.312	36.36
18702000N375B/P	2.000	2.375	0.375	16.00
18702000Q187B	2.000	2.375	0.187	10.48
18702000Q187B/V	2.000	2.375	0.187	42.91
18702000Q250B	2.000	2.375	0.250	13.18
18702000Q312B/V	2.000	2.375	0.312	50.05
18702000Q375B*	2.000	2.375	0.375	13.18
18702000Q375B/V*	2.000	2.375	0.375	49.59
18702125-187B	2.125	2.500	0.187	10.83
18702125-250B	2.125	2.500	0.250	13.47
18702125-312B	2.125	2.500	0.312	19.96
18702125-375B	2.125	2.500	0.375	13.68
18702125N250B/P*	2.125	2.500	0.250	16.99
18702125Q266B	2.125	2.500	0.266	14.26
18702125Q312B	2.125	2.500	0.312	13.38
18702187-375B*	2.187	2.562	0.375	14.76
18702250-187B	2.250	2.625	0.187	11.41
18702250-312B	2.250	2.625	0.312	15.36
18702250-375B	2.250	2.625	0.375	14.80
18702250N375B/4651*	2.250	2.625	0.375	33.85
18702250N375B/P*	2.250	2.625	0.375	27.06
18702375-187B	2.375	2.750	0.187	11.11
18702375-250B	2.375	2.750	0.250	21.79
18702375-266B*	2.375	2.750	0.266	14.84

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B series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18702375-281B*	2.375	2.750	0.281	22.04
18702375-375B	2.375	2.750	0.375	38.45
18702375-437B*	2.375	2.750	0.437	20.89
18702375-500B*	2.375	2.750	0.500	15.16
18702500-187B*	2.500	2.875	0.187	21.43
18702500-250B	2.500	2.875	0.250	21.43
18702500-312B	2.500	2.875	0.312	15.69
18702500-375B	2.500	2.875	0.375	15.95
18702500N375B/P*	2.500	2.875	0.375	28.45
18702500Q187B	2.500	2.875	0.187	11.91
18702500Q375B	2.500	2.875	0.375	15.86
18702500Q375B/V	2.500	2.875	0.375	59.90
18702625-187B	2.625	3.000	0.187	11.73
18702625-250B	2.625	3.000	0.250	16.72
18702625-281B	2.625	3.000	0.281	18.66
18702625-312B	2.625	3.000	0.312	14.41
18702625-375B	2.625	3.000	0.375	16.58
18702750-187B	2.750	3.125	0.187	12.92
18702750-281B	2.750	3.125	0.281	20.48
18702750-312B	2.750	3.125	0.312	18.13
18702750-375B	2.750	3.125	0.375	17.32
18702750Q375B/V	2.750	3.125	0.375	74.37
18702875-281B*	2.875	3.250	0.281	18.20
18702875-375B	2.875	3.250	0.375	18.28
18702875Q187B	2.875	3.250	0.187	14.97
18702875Q250B	2.875	3.250	0.250	19.37
18702875Q266B*	2.875	3.250	0.266	27.56
18703000-187B	3.000	3.375	0.187	13.53
18703000-250B	3.000	3.375	0.250	30.75
18703000-312B	3.000	3.375	0.312	16.82
18703000-375B	3.000	3.375	0.375	19.28
18703000Q375B/V	3.000	3.375	0.375	76.15
18703125-187B	3.125	3.500	0.187	20.61
18703125-250B	3.125	3.500	0.250	17.82
18703125-375B	3.125	3.500	0.375	19.61
18703125Q187B	3.125	3.500	0.187	14.68
18703125Q312B	3.125	3.500	0.312	16.85
18703250-312B	3.250	3.625	0.312	18.86
18703250-375B	3.250	3.625	0.375	21.39
18703250N375B/P*	3.250	3.625	0.375	22.71
18703375-187B*	3.375	3.750	0.187	32.11
18703375-250B	3.375	3.750	0.250	21.69
18703375-375B	3.375	3.750	0.375	38.57
18703375N375B/P	3.375	3.750	0.375	34.23

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18703375Q187B	3.375	3.750	0.187	16.42
18703500-266B	3.500	3.875	0.266	18.66
18703500-281B	3.500	3.875	0.281	35.69
18703500-312B*	3.500	3.875	0.312	22.97
18703500-375B	3.500	3.875	0.375	22.97
18703500N375B/P	3.500	3.875	0.375	27.43
18703500Q187B	3.500	3.875	0.187	17.16
18703500Q312B	3.500	3.875	0.312	28.59
18703500Q375B/V	3.500	3.875	0.375	86.39
18703625-250B	3.625	4.000	0.250	22.01
18703625-312B	3.625	4.000	0.312	22.01
18703625-375B	3.625	4.000	0.375	25.37
18703625Q187B	3.625	4.000	0.187	17.29
18703750-312B	3.750	4.125	0.312	24.05
18703750Q375B*	3.750	4.125	0.375	26.78
18703750Q187B	3.750	4.125	0.187	24.05
18703875-187B*	3.875	4.250	0.187	30.85
18703875-375B	3.875	4.250	0.375	27.58
18704000-187B	4.000	4.375	0.187	20.38
18704000-250B	4.000	4.375	0.250	23.94
18704000-312B	4.000	4.375	0.312	25.63
18704000-375B	4.000	4.375	0.375	28.23
18704000N375B/P	4.000	4.375	0.375	30.86
18704000Q375B/V	4.000	4.375	0.375	115.50
18704125-250B	4.125	4.500	0.250	27.99
18704125-375B	4.125	4.500	0.375	28.93
18704125Q187B	4.125	4.500	0.187	29.56
18704250-281B*	4.250	4.625	0.281	29.19
18704250-312B	4.250	4.625	0.312	29.11
18704250-375B	4.250	4.625	0.375	30.32
18704375-375B	4.375	4.750	0.375	33.69
18704500-187B	4.500	4.875	0.187	31.97
18704500-375B	4.500	4.875	0.375	33.45
18704500N375B/P*	4.500	4.875	0.375	40.05
18704500Q375B/V*	4.500	4.875	0.375	139.81
18704625-250B	4.625	5.000	0.250	31.95
18704625-312B*	4.625	5.000	0.312	31.95
18704625-375B	4.625	5.000	0.375	31.95
18704750-375B*	4.750	5.125	0.375	32.89
18704875-375B	4.875	5.250	0.375	34.06
18705000-281B	5.000	5.375	0.281	51.08
18705000-375B	5.000	5.375	0.375	34.98
18705125Q187B*	5.125	5.500	0.187	39.01
18705500-375B	5.500	5.875	0.375	42.08

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18705500-375B/V*	5.500	5.875	0.375	484.57
18705750Q375B*	5.750	6.125	0.375	42.34
18706000-375B*	6.000	6.375	0.375	45.72
18707000-375B*	7.000	7.375	0.375	61.93
7/32" - Cross Section - 0.218"				
21802500Q218B*	2.500	2.937	0.218	20.62
21802562Q218B*	2.562	3.000	0.218	16.97
1/4" - Cross Section - 0.250"				
25000250-375B*	0.250	0.750	0.375	9.41
25000437-375B*	0.437	0.937	0.375	9.41
25000437Q375B*	0.437	0.937	0.375	10.05
25000478-375B*	0.478	0.978	0.375	9.41
25000500-375B*	0.500	1.000	0.375	9.40
25000500Q375B	0.500	1.000	0.375	9.39
25000562-375B*	0.562	1.062	0.375	9.52
25000625-312B	0.625	1.125	0.312	10.84
25000625-375B	0.625	1.125	0.375	12.67
25000687-375B*	0.687	1.187	0.375	8.94
25000750-375B	0.750	1.250	0.375	9.79
25000750Q250B	0.750	1.250	0.250	9.06
25000812-375B*	0.812	1.312	0.375	11.10
25000875-250B*	0.875	1.375	0.250	9.28
25000875-312B*	0.875	1.375	0.312	9.28
25000875-375B	0.875	1.375	0.375	10.18
25000875Q250B	0.875	1.375	0.250	8.55
25001000-250B	1.000	1.500	0.250	9.62
25001000-375B	1.000	1.500	0.375	9.86
25001000Q375B/V	1.000	1.500	0.375	33.24
25001125-250B	1.125	1.625	0.250	12.83
25001125-375B	1.125	1.625	0.375	10.63
25001187-375B*	1.187	1.687	0.375	7.79
25001250-250B	1.250	1.750	0.250	9.27
25001250-375B	1.250	1.750	0.375	10.68
25001250N375B/P*	1.250	1.750	0.375	20.76
25001250Q375B/V	1.250	1.750	0.375	40.26
25001312-375B	1.312	1.812	0.375	10.52
25001375-250B	1.375	1.875	0.250	10.50
25001375-375B	1.375	1.875	0.375	11.03
25001375N375B/P*	1.375	1.875	0.375	13.34
25001375Q375B/V	1.375	1.875	0.375	45.81
25001500-250B	1.500	2.000	0.250	10.89
25001500-312B	1.500	2.000	0.312	11.94

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25001500-375B	1.500	2.000	0.375	12.14
25001500N375B/4651	1.500	2.000	0.375	25.43
25001500Q375B	1.500	2.000	0.375	12.08
25001500Q375B/V	1.500	2.000	0.375	45.29
25001500Q500B	1.500	2.000	0.500	15.97
25001625-375B	1.625	2.125	0.375	13.21
25001750-250B	1.750	2.250	0.250	18.66
25001750-375B	1.750	2.250	0.375	13.25
25001750N375B/NX*	1.750	2.250	0.375	13.25
25001750Q312B	1.750	2.250	0.312	14.68
25001750Q375B	1.750	2.250	0.375	13.21
25001750Q375B/V	1.750	2.250	0.375	49.94
25001750V375B/P	1.750	2.250	0.375	19.00
25001875-375B*	1.875	2.375	0.375	14.56
25001937-375B	1.937	2.437	0.375	14.83
25002000-250B	2.000	2.500	0.250	13.25
25002000-375B	2.000	2.500	0.375	14.52
25002000N375B/P	2.000	2.500	0.375	16.20
25002000Q312B	2.000	2.500	0.312	13.18
25002000Q375B	2.000	2.500	0.375	14.46
25002000Q375B/V	2.000	2.500	0.375	53.31
25002000V375B/F	2.000	2.500	0.375	14.52
25002000V375B/P	2.000	2.500	0.375	17.50
25002125-250B*	2.125	2.625	0.250	14.84
25002125-375B	2.125	2.625	0.375	16.14
25002187-375B*	2.187	2.687	0.375	16.95
25002250-250B	2.250	2.750	0.250	10.31
25002250-375B	2.250	2.750	0.375	16.28
25002250N375B/P	2.250	2.750	0.375	58.49
25002250Q250B	2.250	2.750	0.250	17.45
25002250Q375B/V	2.250	2.750	0.375	61.20
25002375-375B	2.375	2.875	0.375	17.91
25002375-562B	2.375	2.875	0.562	16.52
25002500-250B	2.500	3.000	0.250	15.74
25002500-250B/4615	2.500	3.000	0.250	23.90
25002500-312B	2.500	3.000	0.312	18.18
25002500-375B	2.500	3.000	0.375	17.93
25002500N375B/P	2.500	3.000	0.375	22.64
25002500Q250B	2.500	3.000	0.250	15.99
25002500Q375B	2.500	3.000	0.375	17.88
25002500Q375B/V	2.500	3.000	0.375	67.27
25002500Q500B	2.500	3.000	0.500	17.88
25002562-375B	2.562	3.062	0.375	18.58
25002625-375B	2.625	3.125	0.375	18.68

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

B series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25002750-250B*	2.750	3.250	0.250	17.13
25002750-375B	2.750	3.250	0.375	19.57
25002750-500B	2.750	3.250	0.500	19.53
25002750N375B/4651*	2.750	3.250	0.375	43.11
25002750N375B/P	2.750	3.250	0.375	43.11
25002750Q375B	2.750	3.250	0.375	19.54
25002750Q375B/V	2.750	3.250	0.375	73.89
25002875-375B	2.875	3.375	0.375	22.30
25003000-250B	3.000	3.500	0.250	18.36
25003000-375B	3.000	3.500	0.375	21.13
25003000-500B	3.000	3.500	0.500	19.29
25003000-562B*	3.000	3.500	0.562	19.29
25003000N375B/P	3.000	3.500	0.375	23.28
25003000Q250B	3.000	3.500	0.250	18.65
25003000Q375B	3.000	3.500	0.375	21.08
25003000Q375B/V*	3.000	3.500	0.375	79.44
25003000V375B/P	3.000	3.500	0.375	27.58
25003000V375B/V*	3.000	3.500	0.375	76.49
25003125-250B	3.125	3.625	0.250	21.16
25003125-375B	3.125	3.625	0.375	27.87
25003250-375B	3.250	3.750	0.375	22.77
25003250-500B*	3.250	3.750	0.500	24.88
25003250N375B/P*	3.250	3.750	0.375	24.88
25003250Q500B	3.250	3.750	0.500	23.69
25003375-250B*	3.375	3.875	0.250	21.39
25003375-375B	3.375	3.875	0.375	21.38
25003375-562B*	3.375	3.875	0.562	22.71
25003375N375B/4651*	3.375	3.875	0.375	65.32
25003500-250B	3.500	4.000	0.250	22.04
25003500-312B	3.500	4.000	0.312	22.17
25003500-375B	3.500	4.000	0.375	24.40
25003500-500B*	3.500	4.000	0.500	34.06
25003500-625B	3.500	4.000	0.625	34.06
25003500N375B/4651	3.500	4.000	0.375	40.98
25003500N375B/P	3.500	4.000	0.375	40.98
25003500N375B/U*	3.500	4.000	0.375	24.40
25003500Q250B	3.500	4.000	0.250	22.36
25003500Q375B	3.500	4.000	0.375	24.34
25003500Q375B/V	3.500	4.000	0.375	91.76
25003500Q500B	3.500	4.000	0.500	24.72
25003500V375B/P	3.500	4.000	0.375	40.98
25003625-375B	3.625	4.125	0.375	30.04
25003690-500B*	3.690	4.190	0.500	31.12
25003750-250B	3.750	4.250	0.250	23.55

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25003750-375B	3.750	4.250	0.375	25.81
25003750-562B	3.750	4.250	0.562	25.41
25003750N375B/P*	3.750	4.250	0.375	37.64
25003750Q500B	3.750	4.250	0.500	25.76
25003875-375B	3.875	4.375	0.375	26.21
25004000-250B*	4.000	4.500	0.250	28.05
25004000-375B	4.000	4.500	0.375	28.05
25004000-500B*	4.000	4.500	0.500	28.08
25004000-562B	4.000	4.500	0.562	28.05
25004000N375B/4651*	4.000	4.500	0.375	42.49
25004000N375B/P*	4.000	4.500	0.375	32.98
25004000N562B/P	4.000	4.500	0.562	39.15
25004000Q250B	4.000	4.500	0.250	24.00
25004000Q375B *	4.000	4.500	0.375	28.02
25004000Q375B/V	4.000	4.500	0.375	101.29
25004000Q500B	4.000	4.500	0.500	30.24
25004000Q562B/V	4.000	4.500	0.562	105.62
25004062-375B*	4.062	4.562	0.375	27.68
25004125-250B	4.125	4.625	0.250	27.80
25004125-375B*	4.125	4.625	0.375	30.16
25004125-562B	4.125	4.625	0.562	33.12
25004250-375B	4.250	4.750	0.375	32.00
25004250-562B	4.250	4.750	0.562	33.63
25004250N375B/P*	4.250	4.750	0.375	66.64
25004250Q250B	4.250	4.750	0.250	31.25
25004250Q562B	4.250	4.750	0.562	33.53
25004250Q562B/V*	4.250	4.750	0.562	315.60
25004375-250B*	4.375	4.875	0.250	26.88
25004375-562B	4.375	4.875	0.562	32.56
25004375N562B/4651*	4.375	4.875	0.562	67.27
25004375N562B/P*	4.375	4.875	0.562	43.54
25004437-375B*	4.437	4.937	0.375	43.54
25004500-250B	4.500	5.000	0.250	30.97
25004500-250B/4615	4.500	5.000	0.250	40.76
25004500-312B	4.500	5.000	0.312	32.76
25004500-375B	4.500	5.000	0.375	33.27
25004500-375B/V*	4.500	5.000	0.375	189.63
25004500-500B	4.500	5.000	0.500	32.76
25004500-562B	4.500	5.000	0.562	33.27
25004500-562B/4615*	4.500	5.000	0.562	33.27
25004500-562B/V	4.500	5.000	0.562	223.21
25004500-625B	4.500	5.000	0.625	38.64
25004500N250B/P	4.500	5.000	0.250	42.21
25004500N375B/4651	4.500	5.000	0.375	49.59

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25004500N375B/P	4.500	5.000	0.375	39.27
25004500N562B/P*	4.500	5.000	0.562	39.27
2500450Q562B/V	4.500	5.000	0.562	171.07
25004625-250B*	4.625	5.125	0.250	27.08
25004625-562B*	4.625	5.125	0.562	34.88
25004625N562B/4651*	4.625	5.125	0.562	77.26
2500462Q562B	4.625	5.125	0.562	35.33
25004750-375B	4.750	5.250	0.375	36.54
25004750-500B	4.750	5.250	0.500	35.79
25004750-562B	4.750	5.250	0.562	34.80
2500475Q250B*	4.750	5.250	0.250	28.00
25004875-375B	4.875	5.375	0.375	36.04
25004875-562B	4.875	5.375	0.562	36.62
25005000-250B*	5.000	5.500	0.250	38.50
25005000-375B	5.000	5.500	0.375	38.50
25005000-375B-1	5.000	5.500	0.375	124.29
25005000-450B*	5.000	5.500	0.450	135.60
25005000-500B	5.000	5.500	0.500	37.90
25005000-562B	5.000	5.500	0.562	38.50
25005000N375B/P	5.000	5.500	0.375	43.10
25005000N562B/P	5.000	5.500	0.562	52.82
2500500Q250B	5.000	5.500	0.250	35.45
2500500Q375B/V	5.000	5.500	0.375	144.67
2500500Q562B	5.000	5.500	0.562	38.45
25005250-375B*	5.250	5.750	0.375	43.13
25005250-562B	5.250	5.750	0.562	43.13
25005250N562B/4651	5.250	5.750	0.562	70.81
2500525Q250B*	5.250	5.750	0.250	29.10
2500525Q375B	5.250	5.750	0.375	43.74
25005375-375B*	5.375	5.875	0.375	37.71
25005375-562B	5.375	5.875	0.562	41.24
25005437-375B*	5.437	5.937	0.375	44.42
25005500-250B	5.500	6.000	0.250	36.02
25005500-375B	5.500	6.000	0.375	43.71
25005500-500B	5.500	6.000	0.500	41.88
25005500-562B	5.500	6.000	0.562	43.71
25005500N375B/P	5.500	6.000	0.375	55.50
25005500N562B/P	5.500	6.000	0.562	55.50
2500550Q375B/V	5.500	6.000	0.375	183.60
25005625-562B*	5.625	6.125	0.562	57.22
25005750-375B*	5.750	6.250	0.375	48.96
25005750-562B	5.750	6.250	0.562	48.96
25005750N375B/P	5.750	6.250	0.375	101.13
25005750N562B/P	5.750	6.250	0.562	105.58

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
2500575Q375B	5.700	6.250	0.375	48.84
2500575Q562B/V*	5.750	6.250	0.562	219.83
25006000-375B	6.000	6.500	0.375	45.67
25006000-437B*	6.000	6.500	0.437	47.88
25006000-500B	6.000	6.500	0.500	43.82
25006000-562B	6.000	6.500	0.562	48.22
25006000N375B/P	6.000	6.500	0.375	55.51
25006000N562B/P*	6.000	6.500	0.562	52.88
25006250-375B	6.250	6.750	0.375	54.78
25006250-562B	6.250	6.750	0.562	69.87
25006500-250B	6.500	7.000	0.250	38.27
25006500-375B	6.500	7.000	0.375	53.97
25006500-500B*	6.500	7.000	0.500	54.64
25006500-562B	6.500	7.000	0.562	51.77
25006500N375B/P*	6.500	7.000	0.375	62.42
25006500N562B/P	6.500	7.000	0.562	62.42
2500650Q250B	6.500	7.000	0.250	38.78
2500650Q375B	6.500	7.000	0.375	53.82
25006750-375B	6.750	7.250	0.375	53.11
25006750-500B	6.750	7.250	0.500	50.35
25006750-562B	6.750	7.250	0.562	104.86
25007000-375B	7.000	7.500	0.375	51.38
25007000-500B	7.000	7.500	0.500	51.01
25007000-562B	7.000	7.500	0.562	54.96
25007000N562B/4651*	7.000	7.500	0.562	128.60
2500700Q562B/V*	7.000	7.500	0.562	251.65
25007250-375B*	7.250	7.750	0.375	62.45
25007250-562B	7.250	7.750	0.562	69.46
25007250N375B/4651*	7.250	7.750	0.375	134.28
25007250N562B/4651*	7.250	7.750	0.562	134.28
25007500-250B	7.500	8.000	0.250	43.36
25007500-375B	7.500	8.000	0.375	55.14
25007500-500B	7.500	8.000	0.500	55.14
25007500-562B	7.500	8.000	0.562	63.49
2500750Q250B*	7.500	8.000	0.250	43.93
2500775Q562B	7.750	8.250	0.562	70.33
2500800Q250B*	8.000	8.500	0.250	57.94
25008000-375B	8.000	8.500	0.375	64.75
25008000-562B	8.000	8.500	0.562	67.85
25008000-562B/V*	8.000	8.500	0.562	716.46
25008000N562B/P	8.000	8.500	0.562	71.16
25008000-600B	8.000	8.500	0.600	307.20
25008125-562B	8.125	8.625	0.562	68.41
25008250-375B*	8.250	8.750	0.375	93.61

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B series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25008250-437B*	8.250	8.750	0.437	95.62
25008250-562B	8.250	8.750	0.562	76.46
25008500-375B	8.500	9.000	0.375	67.48
25008500-500B*	8.500	9.000	0.500	70.99
25008500-562B	8.500	9.000	0.562	72.61
25008500N562B/P*	8.500	9.000	0.562	88.22
25009000-375B	9.000	9.500	0.375	96.80
25009000-562B*	9.000	9.500	0.562	87.26
25009000N375B/4651	9.000	9.500	0.375	131.22
25009000N562B/4651	9.000	9.500	0.562	131.22
25009250-562B*	9.250	9.750	0.562	76.98
25009500-562B	9.500	10.000	0.562	117.85
25009500Q562B*	9.500	10.000	0.562	74.99
25009750-375B*	9.750	10.250	0.375	81.22
25009750-562B*	9.750	10.250	0.562	86.06
25010000-562B	10.000	10.500	0.562	115.95
25010000N562B/4651*	10.000	10.500	0.562	168.73
25010000Q562B*	10.000	10.500	0.562	107.45
25010000-600B	10.000	1.500	0.600	472.16
25010250-562B*	10.250	10.750	0.562	121.02
25010500-375B*	10.500	11.000	0.375	148.33
25010500-562B	10.500	11.000	0.562	151.57
25010750-562B*	10.750	11.250	0.562	153.77
25011000-562B*	11.000	11.500	0.562	157.60
25011250-375B*	11.250	11.750	0.375	165.64
25011250-562B*	11.250	11.750	0.562	171.23
25012500Q531B*	12.500	13.000	0.531	114.30
25012750-562B*	12.750	13.250	0.562	174.45
25013000-562B*	13.000	13.500	0.562	178.19
25013500-531B*	13.500	14.000	0.531	174.33
25015000-562B*	15.000	15.500	0.562	178.44
25021750-375B*	21.750	22.250	0.375	227.88
25022062-375B*	22.062	22.562	0.375	230.86
25023000-375B*	23.000	23.500	0.375	481.07
25023750-375B*	23.750	24.250	0.375	496.52
25024000-375B*	24.000	24.500	0.375	549.63
25025250-375B*	25.250	25.750	0.375	596.80
0.275" - Cross Section - 0.275"				
27501970-500B*	1.970	2.520	0.500	12.76
27502970-500B*	2.970	3.520	0.500	39.95
27503970-500B*	3.970	4.520	0.500	56.11
27504970-500B*	4.970	5.520	0.500	51.02

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
9/32" Cross Section - 0.281"				
28102200-500B*	2.200	2.770	0.500	20.66
28102250-375B*	2.250	2.812	0.375	24.31
28102937-500B*	2.937	3.500	0.500	25.97
28103187-500B*	3.187	3.750	0.500	25.23
28103187Q500B	3.187	3.750	0.500	28.94
28103437-500B*	3.437	4.000	0.500	42.53
28103687-500B*	3.687	4.250	0.500	21.21
28103937-500B*	3.937	4.500	0.500	42.53
28104437-500B*	4.437	5.000	0.500	43.50
28104687-625B*	4.687	5.250	0.625	44.14
28104937-343B*	4.937	5.500	0.343	46.29
28104937-500B*	4.937	5.500	0.500	50.08
28105000-346B/V*	5.000	5.562	0.346	200.11
28105437-562B*	5.437	6.000	0.562	49.32
28105937-500B*	5.937	6.500	0.500	49.76
28106937-500B*	6.937	7.500	0.500	65.65
28108937-500B*	8.937	9.500	0.500	83.81
5/16" - Cross Section - 0.312"				
31200353-375B*	0.353	0.977	0.375	14.60
31200750Q500B	0.750	1.375	0.500	11.00
31200812-500B*	0.812	1.437	0.500	11.43
31201000-375B	1.000	1.625	0.375	13.40
31201000-500B	1.000	1.625	0.500	15.86
31201125-312B	1.125	1.750	0.312	10.91
31201125-500B	1.125	1.750	0.500	11.43
31201125Q375B	1.125	1.750	0.375	11.46
31201250-312B	1.250	1.875	0.312	11.47
31201250-375B	1.250	1.875	0.375	12.05
31201250-500B	1.250	1.875	0.500	12.26
31201250Q500B/V*	1.250	1.875	0.500	50.82
31201375-312B	1.375	2.000	0.312	12.05
31201375-375B*	1.375	2.000	0.375	21.88
31201375-500B	1.375	2.000	0.500	21.88
31201375Q375B	1.375	2.000	0.375	13.11
31201375Q500B/V*	1.375	2.000	0.500	48.33
31201437-500B	1.437	2.062	0.500	13.99
31201500-312B	1.500	2.125	0.312	15.82
31201500-375B	1.500	2.125	0.375	14.47
31201500-437B*	1.500	2.125	0.437	14.70
31201500-500B	1.500	2.125	0.500	14.70
31201500Q437B	1.500	2.125	0.437	16.99
31201625-375B*	1.625	2.250	0.375	14.90
31201625-500B*	1.625	2.250	0.500	14.90

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
3120162 5Q375B	1.625	2.250	0.375	24.93
31201687Q500B	1.687	2.312	0.500	16.46
31201750-375B*	1.750	2.375	0.375	16.07
31201750-500B	1.750	2.375	0.500	16.34
31201875-375B*	1.875	2.500	0.375	17.03
31201875-500B	1.875	2.500	0.500	17.03
31201875Q375B	1.875	2.500	0.375	17.00
31202000-375B	2.000	2.625	0.375	20.48
31202000-500B	2.000	2.625	0.500	17.46
31202000-562B	2.000	2.625	0.562	17.43
31202000N500B/P*	2.000	2.625	0.500	21.16
31202000Q500B/V	2.000	2.625	0.500	65.72
31202125-312B	2.125	2.750	0.312	17.19
31202125-500B	2.125	2.750	0.500	31.26
31202125-625B*	2.125	2.750	0.625	18.93
31202250-312B	2.250	2.875	0.312	19.85
31202250-500B	2.250	2.875	0.500	20.68
31202250Q375B	2.250	2.875	0.375	19.59
31202375-312B *	2.375	3.000	0.312	O/R
31202375-500B	2.375	3.000	0.500	20.06
31202375Q312B	2.375	3.000	0.312	19.76
31202500-375B	2.500	3.125	0.375	18.99
31202500-500B	2.500	3.125	0.500	20.88
31202500N500B/P*	2.500	3.125	0.500	27.68
31202500V500B/V*	2.500	3.125	0.500	215.62
31202625Q500B	2.625	3.250	0.500	22.61
31202750-375B	2.750	3.375	0.375	22.05
31202750-500B	2.750	3.375	0.500	22.70
31202750N500B/4651*	2.750	3.375	0.500	26.43
31202875-500B	2.875	3.500	0.500	24.07
31203000-375B	3.000	3.625	0.375	25.27
31203000-500B	3.000	3.625	0.500	24.53
31203000N500B/4651*	3.000	3.625	0.500	69.36
31203000Q312B*	3.000	3.625	0.312	22.78
31203000Q500B/V*	3.000	3.625	0.500	99.90
31203125-312B	3.125	3.750	0.312	22.85
31203125-375B/V*	3.125	3.750	0.375	158.56
31203125-500B	3.125	3.750	0.500	23.81
31203250-312B	3.250	3.875	0.312	24.52
31203250-500B	3.250	3.875	0.500	30.65
31203250-562B*	3.250	3.875	0.562	36.99
31203250N500B/4651*	3.250	3.875	0.500	60.80
31203375-312B*	3.375	4.000	0.312	26.40
31203375-500B	3.375	4.000	0.500	27.24

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31203375-625B*	3.375	4.000	0.625	27.18
31203375Q500B*	3.375	4.000	0.500	27.18
31203375Q625B	3.375	4.000	0.625	27.62
31203500-375B	3.500	4.125	0.375	27.53
31203500-500B	3.500	4.125	0.500	29.73
31203500N500B/P*	3.500	4.125	0.500	34.13
31203625-375B	3.625	4.250	0.375	O/R
31203625-500B	3.625	4.250	0.500	30.16
31203750-375B	3.750	4.375	0.375	30.04
31203750-500B	3.750	4.375	0.500	29.57
31203750-625B*	3.750	4.375	0.625	32.40
31203750N500B/P*	3.750	4.375	0.500	35.48
31203750Q312B*	3.750	4.375	0.312	30.60
31203875-500B	3.875	4.500	0.500	32.40
31204000-500B	4.000	4.625	0.500	29.30
31204000-562B	4.000	4.625	0.562	32.19
31204000N375B/4651	4.000	4.625	0.375	73.89
31204000N562B/P	4.000	4.625	0.562	41.74
31204125-500B	4.125	4.750	0.500	31.97
31204125-562B	4.125	4.750	0.562	33.02
31204125-625B*	4.125	4.750	0.625	32.50
31204250-312B	4.250	4.875	0.312	32.89
31204250-500B	4.250	4.875	0.500	32.98
31204250-562B*	4.250	4.875	0.562	33.86
31204250N562B/4651*	4.250	4.875	0.562	78.65
31204250Q562B	4.250	4.875	0.562	33.76
31204375-312B	4.375	5.000	0.312	34.28
31204375-500B	4.375	5.000	0.500	35.88
31204375-625B	4.375	5.000	0.625	36.54
31204375Q562B	4.375	5.000	0.562	36.34
31204500-375B	4.500	5.125	0.375	36.68
31204500-562B*	4.500	5.125	0.562	37.11
31204500-625B	4.500	5.125	0.625	36.11
31204500Q500B*	4.500	5.125	0.500	37.41
31204625-625B	4.625	5.250	0.625	38.74
31204750-500B	4.750	5.375	0.500	35.34
31204750-625B	4.750	5.375	0.625	38.88
31204750N500B/P*	4.750	5.375	0.500	44.67
31205000-625B	5.000	5.625	0.625	43.30
31205125-625B	5.125	5.750	0.625	62.26
31205250-625B	5.250	5.875	0.625	46.27
31205375-625B	5.375	6.000	0.625	45.92
31205375Q312B	5.375	6.000	0.312	39.94
31205500-312B	5.500	6.125	0.312	39.38

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

B series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31205500-625B	5.500	6.125	0.625	48.03
31205500V625B/V	5.500	6.125	0.625	507.76
31205625-625B*	5.625	6.250	0.625	47.82
31205750-625B*	5.750	6.375	0.625	52.51
31205750N625B/4651*	5.750	6.375	0.625	130.74
31206000-625B	6.000	6.625	0.625	52.67
31206375-625B	6.375	7.000	0.625	52.51
31206500-625B	6.500	7.125	0.625	58.20
31206625-625B*	6.625	7.250	0.625	62.95
31206750-625B*	6.750	7.375	0.625	61.52
31207000-625B*	7.000	7.625	0.625	63.64
31207250-625B*	7.250	7.875	0.625	68.28
31207375-500B*	7.375	8.000	0.500	75.08
31207375-625B*	7.375	8.000	0.625	76.62
31207375Q312B	7.375	8.000	0.312	65.11
31207875-625B	7.875	8.500	0.625	116.43
31208000-500B*	8.000	8.625	0.500	84.16
31208000-625B	8.000	8.625	0.625	76.78
31208500-625B*	8.500	9.125	0.625	77.45
31209125-625B*	9.125	9.750	0.625	84.41
31209250-625B*	9.250	9.875	0.625	91.49
31209375-625B	9.375	10.000	0.625	114.21
31209375N625B/4651*	9.375	10.000	0.625	196.80
31209625-625B*	9.625	10.250	0.625	127.34
31209750-625B*	9.750	10.375	0.625	153.38
31210375-625B*	10.375	11.000	0.625	157.44
31212500-625B*	12.500	13.125	0.625	162.89
3/8" - Cross Section - 0.375"				
37500812Q375B*	0.812	1.562	0.375	13.93
37501250-500B	1.250	2.000	0.500	16.06
37501250-625B	1.250	2.000	0.625	17.00
37501250Q375B	1.250	2.000	0.375	14.37
37501375-625B*	1.375	2.125	0.625	28.80
37501500-500B	1.500	2.250	0.500	18.89
37501500-625B	1.500	2.250	0.625	20.42
37501625-375B*	1.625	2.375	0.375	18.82
37501625-625B	1.625	2.375	0.625	19.56
37501750-500B	1.750	2.500	0.500	19.45
37501750-625B*	1.750	2.500	0.625	21.15
37501750Q625B*	1.750	2.500	0.625	22.11
37501750Q625B/V	1.750	2.500	0.625	84.05
37502000-375B	2.000	2.750	0.375	22.02
37502000-500B*	2.000	2.750	0.500	24.31

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37502000-625B	2.000	2.750	0.625	24.70
37502000N625B/P*	2.000	2.750	0.625	28.44
37502250-500B	2.250	3.000	0.500	27.37
37502250-625B	2.250	3.000	0.625	27.50
37502250Q375B	2.250	3.000	0.375	25.06
37502375-625B	2.375	3.125	0.625	39.24
37502500-375B	2.500	3.250	0.375	26.83
37502500-500B	2.500	3.250	0.500	28.50
37502500-625B	2.500	3.250	0.625	28.97
37502500-625B/V*	2.500	3.250	0.625	393.36
37502625Q625B	2.625	3.375	0.625	31.19
37502750-500B	2.750	3.500	0.500	31.95
37502750-625B	2.750	3.500	0.625	33.05
37502750Q625B/V*	2.750	3.500	0.625	124.41
37502875-625B	2.875	3.625	0.625	32.68
37503000-375B	3.000	3.750	0.375	31.55
37503000-500B	3.000	3.750	0.500	35.44
37503000-625B	3.000	3.750	0.625	34.42
37503000N625B/P*	3.000	3.750	0.625	37.71
37503000Q500B*	3.000	3.750	0.500	35.92
37503000Q625B/V	3.000	3.750	0.625	124.30
37503125-375B*	3.125	3.875	0.375	33.28
37503125-625B	3.125	3.875	0.625	34.89
37503250-500B	3.250	4.000	0.500	35.95
37503250-625B	3.250	4.000	0.625	36.54
37503250N625B/P*	3.250	4.000	0.625	40.11
37503375-625B	3.375	4.125	0.625	37.41
37503500-500B	3.500	4.250	0.500	37.42
37503500-625B	3.500	4.250	0.625	39.11
37503500N625B/P	3.500	4.250	0.625	42.87
37503500Q625B/V	3.500	4.250	0.625	146.67
37503625-500B	3.625	4.375	0.500	41.63
37503625-625B	3.625	4.375	0.625	40.54
37503750-375B*	3.750	4.500	0.375	37.88
37503750-500B	3.750	4.500	0.500	37.88
37503750-625B	3.750	4.500	0.625	44.43
37503750N625B/P	3.750	4.500	0.625	49.84
37503750Q375B	3.750	4.500	0.375	34.59
37503750Q625B/V*	3.750	4.500	0.625	156.41
37503875-625B*	3.875	4.625	0.625	38.31
37504000-500B*	4.000	4.750	0.500	40.77
37504000-625B	4.000	4.750	0.625	44.17
37504000N625B/P	4.000	4.750	0.625	61.29
37504000Q500B	4.000	4.750	0.500	67.12

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37504000Q625B/V	4.000	4.750	0.625	165.95
37504125-625B*	4.125	4.875	0.625	40.80
37504125Q625B*	4.125	4.875	0.625	40.80
37504250-375B	4.250	5.000	0.375	42.18
37504250-625B	4.250	5.000	0.625	46.22
37504250-625B/V*	4.250	5.000	0.625	503.15
37504250N625B/P	4.250	5.000	0.625	55.24
37504250Q500B	4.250	5.000	0.500	54.12
37504375-625B*	4.375	5.125	0.625	47.23
37504375Q625B	4.375	5.125	0.625	47.23
37504500-375B*	4.500	5.250	0.375	46.52
37504500-500B*	4.500	5.250	0.500	46.52
37504500-625B	4.500	5.250	0.625	48.52
37504500N625B/P*	4.500	5.250	0.625	55.74
37504500Q375B	4.500	5.250	0.375	46.36
37504500V625B/4651*	4.500	5.250	0.625	66.07
37504625-625B	4.625	5.375	0.625	48.58
37504750-375B*	4.750	5.500	0.375	47.99
37504750-500B	4.750	5.500	0.500	49.92
37504750-625B	4.750	5.500	0.625	50.75
37504750N625B/P*	4.750	5.500	0.625	75.38
37504750Q375B*	4.750	5.500	0.375	48.64
37504875-625B*	4.875	5.625	0.625	50.26
37504875Q375B*	4.875	5.625	0.375	67.34
37505000-500B	5.000	5.750	0.500	50.31
37505000-625B	5.000	5.750	0.625	53.17
37505000N625B/P	5.000	5.750	0.625	64.18
37505000Q375B*	5.000	5.750	0.375	50.16
37505000Q625B/V	5.000	5.750	0.625	199.64
37505125-625B	5.125	5.875	0.625	52.31
37505250-375B*	5.250	6.000	0.375	55.38
37505250-500B	5.250	6.000	0.500	55.38
37505250-625B	5.250	6.000	0.625	55.38
37505250-750B	5.250	6.000	0.750	54.93
37505250N625B/P	5.250	6.000	0.625	81.67
37505250Q375B	5.250	6.000	0.375	51.70
37505250Q625B*	5.250	6.000	0.625	55.25
37505375-625B*	5.375	6.125	0.625	52.50
37505500-500B*	5.500	6.250	0.500	54.47
37505500-625B*	5.500	6.250	0.625	57.57
37505500N625B/P	5.500	6.250	0.625	71.86
37505500Q375B*	5.500	6.250	0.375	53.67
37505500Q625B/V	5.500	6.250	0.625	216.27
37505500V625B/P*	5.500	6.250	0.625	97.14

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37505625-625B*	5.625	6.375	0.625	64.58
37505750-500B	5.750	6.500	0.500	61.52
37505750-625B	5.750	6.500	0.625	62.30
37505750N500B/P*	5.750	6.500	0.500	68.58
37505750N625B/P	5.750	6.500	0.625	71.97
37505750V625B/P	5.750	6.500	0.625	90.95
37505875-625B	5.875	6.625	0.625	64.11
37505875Q625B	5.875	6.625	0.625	62.15
37506000-500B	6.000	6.750	0.500	61.39
37506000-625B	6.000	6.750	0.625	61.58
37506000N625B/P*	6.000	6.750	0.625	74.49
37506000Q375B	6.000	6.750	0.375	60.55
37506000Q625B/V*	6.000	6.750	0.625	230.63
37506000V625B/P*	6.000	6.750	0.625	104.43
37506250-500B	6.250	7.000	0.500	61.65
37506250-625B	6.250	7.000	0.625	63.12
37506250N625B/P*	6.250	7.000	0.625	76.13
37506500-500B	6.500	7.250	0.500	64.24
37506500-625B	6.500	7.250	0.625	65.29
37506500N625B/P*	6.500	7.250	0.625	78.76
37506500Q375B*	6.500	7.250	0.375	86.20
37506750-375B	6.750	7.500	0.375	68.93
37506750-500B	6.750	7.500	0.500	65.15
37506750-625B*	6.750	7.500	0.625	117.79
37506750N625B/F*	6.750	7.500	0.625	117.79
37506875-625B*	6.875	7.625	0.625	67.61
37507000-500B	7.000	7.750	0.500	68.75
37507000-625B	7.000	7.750	0.625	69.85
37507000N500B/4651*	7.000	7.750	0.500	151.99
37507000N625B/P	7.000	7.750	0.625	84.30
37507000Q625B/V*	7.000	7.750	0.625	272.82
37507000V500B/F*	7.000	7.750	0.500	174.92
37507250-500B	7.250	8.000	0.500	66.47
37507250-625B	7.250	8.000	0.625	74.73
37507250-750B*	7.250	8.000	0.750	78.26
37507250N625B/P	7.250	8.000	0.625	82.93
37507250Q375B	7.250	8.000	0.375	68.46
37507250Q625B*	7.250	8.000	0.625	76.03
37507375-500B*	7.375	8.125	0.500	91.08
37507500-500B	7.500	8.250	0.500	98.44
37507500-625B	7.500	8.250	0.625	102.47
37507500N625B/P*	7.500	8.250	0.625	87.46
37507750-500B	7.750	8.500	0.500	75.92
37507750-625B	7.750	8.500	0.625	78.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

B series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37507750Q375B*	7.750	8.500	0.375	101.17
37507790-375B*	7.790	8.540	0.375	80.25
37508000-625B	8.000	8.750	0.625	81.04
37508000N625B/4651	8.000	8.750	0.625	170.76
37508000Q625B/V	8.000	8.750	0.625	337.15
37508250-625B	8.250	9.000	0.625	84.82
37508250N625B/P	8.250	9.000	0.625	96.90
37508500-625B	8.500	9.250	0.625	89.45
37508500Q500B*	8.500	9.250	0.500	93.06
37508500Q625B*	8.500	9.250	0.625	93.02
37508750-500B	8.750	9.500	0.500	92.19
37508750-625B*	8.750	9.500	0.625	84.17
37508750-750B*	8.750	9.500	0.750	97.98
37508795-375B*	8.795	9.545	0.375	132.25
37508875-625B*	8.875	9.625	0.625	92.76
37509000-625B	9.000	9.750	0.625	167.61
37509000Q375B*	9.000	9.750	0.375	146.59
37509000V625B/4651*	9.000	9.750	0.625	255.54
37509250-625B	9.250	10.000	0.625	182.77
37509250Q625B	9.250	10.000	0.625	119.43
37509500-625B	9.500	10.250	0.625	125.30
37509500N625B/4651*	9.500	10.250	0.625	267.65
37509750-625B*	9.750	10.500	0.625	121.01
37509750Q625B	9.750	10.500	0.625	122.66
37510000N625B/4651	10.000	10.750	0.625	262.85
37510000Q625B	10.000	10.750	0.625	146.85
37510250-500B*	10.250	11.000	0.500	151.42
37510250-750B*	10.250	11.000	0.750	154.94
37510250Q500B*	10.250	11.000	0.500	175.33
37510500-625B*	10.500	11.250	0.625	166.80
37510500Q375B*	10.500	11.250	0.375	166.80
37510500Q625B	10.500	11.250	0.625	160.37
37510750-625B	10.750	11.500	0.625	156.61
37510750N625B/4651*	10.750	11.500	0.625	349.68
37511000-625B*	11.000	11.750	0.625	165.98
37511000Q625B	11.000	11.750	0.625	165.98
37511250-625B	11.250	12.000	0.625	168.90
37511250Q625B*	11.250	12.000	0.625	171.22
37511500-625B*	11.500	12.250	0.625	185.26
37511750-625B*	11.750	12.500	0.625	187.54
37511750-750B*	11.750	12.500	0.750	190.98
37512000N625B/4651	12.000	12.750	0.625	301.97
37512000Q625B	12.000	12.750	0.625	193.02
37512250-625B	12.250	13.000	0.625	205.08

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37512750-625B*	12.750	13.500	0.625	214.44
37513000-375B*	13.000	13.750	0.375	220.48
37513000-625B	13.000	13.750	0.625	225.84
37513250-625B	13.250	14.000	0.625	184.34
37513500-625B*	13.500	14.250	0.625	248.49
37513750-625B*	13.750	14.500	0.625	262.56
37514250-625B*	14.250	15.000	0.625	285.50
37514750-625B*	14.750	15.500	0.625	288.75
37515500-625B*	15.500	16.250	0.625	963.56
37518500-625B*	18.500	19.250	0.625	1136.21
37519250-625B*	19.250	20.000	0.625	297.34
37520750-500B*	20.750	21.500	0.500	317.59
7/16" - Cross Section - 0.437"				
43701125-500B*	1.125	2.000	0.500	22.64
43702250-625B*	2.250	3.125	0.625	28.27
43702500-625B*	2.500	3.375	0.625	31.70
43703125-687B*	3.125	4.000	0.687	35.02
43703375-500B*	3.375	4.250	0.500	41.14
43703875-500B*	3.875	4.750	0.500	43.69
43703875Q750B	3.875	4.750	0.750	44.03
43704000-625B	4.000	4.875	0.625	72.17
43704500-750B*	4.500	5.375	0.750	50.15
43704750Q750B	4.750	5.625	0.750	71.24
43704875-562B*	4.875	5.750	0.562	72.80
43705000-750B	5.000	5.875	0.750	77.16
43713125-437B*	13.125	14.000	0.437	132.75
1/2" - Cross Section - 0.500"				
50001125-750B*	1.125	2.125	0.750	34.11
50001500-750B	1.500	2.500	0.750	34.38
50001750-750B	1.750	2.750	0.750	34.03
50001875-625B*	1.875	2.875	0.625	33.59
50002000-750B	2.000	3.000	0.750	33.59
50002000Q500B	2.000	3.000	0.500	31.62
50002375Q500B*	2.375	3.375	0.500	34.46
50002500-750B	2.500	3.500	0.750	42.12
50003000-625B*	3.000	4.000	0.625	51.06
50003000-750B	3.000	4.000	0.750	51.06
50003000N750B/P*	3.000	4.000	0.750	35.48
50003250-750B*	3.250	4.250	0.750	68.20
50003250P750B*	3.250	4.250	0.750	68.20
50003250Q750B*	3.250	4.250	0.750	56.41
50003375-625B*	3.375	4.375	0.625	60.66

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50003500-750B	3.500	4.500	0.750	52.84
50003500-750B/AE*	3.500	4.500	0.750	212.67
50003750-690B*	3.750	4.750	0.690	67.38
50003750-750B*	3.750	4.750	0.750	48.01
50003875-750B*	3.875	4.875	0.750	71.39
50004000Q750B	4.000	5.000	0.750	55.52
50004000V750B/F*	4.000	5.000	0.750	56.20
50004125-750B	4.125	5.125	0.750	55.06
50004250-750B	4.250	5.250	0.750	64.01
50004375-625B*	4.375	5.375	0.625	64.31
50004375Q750B	4.375	5.375	0.750	68.47
50004500-500B	4.500	5.500	0.500	68.67
50004500-750B	4.500	5.500	0.750	68.70
50004500N750B/P	4.500	5.500	0.750	84.93
50004750-687B*	4.750	5.750	0.687	72.32
50004750-750B*	4.750	5.750	0.750	68.33
50005000-750B	5.000	6.000	0.750	109.32
50005000N750B/4651*	5.000	6.000	0.750	143.33
50005000Q500B*	5.000	6.000	0.500	62.40
50005250-500B*	5.250	6.250	0.500	84.84
50005250-750B	5.250	6.250	0.750	89.02
50005375Q750B*	5.375	6.375	0.750	86.39
50005500-750B	5.500	6.500	0.750	120.12
50005750-750B*	5.750	6.750	0.750	97.72
50005750N750B/4651*	5.750	6.750	0.750	195.61
50005750Q750B	5.750	6.750	0.750	93.72
50006000-500B*	6.000	7.000	0.500	84.61
50006000-750B	6.000	7.000	0.750	84.61
50006000-750B/V*	6.000	7.000	0.750	1010.68
50006000N750B/4651*	6.000	7.000	0.750	175.16
50006000Q500B	6.000	7.000	0.500	74.45
50006250-750B	6.250	7.250	0.750	110.74
50006500-750B	6.500	7.500	0.750	81.25
50006500N750B/4651	6.500	7.500	0.750	176.92
50006500Q750B*	6.500	7.500	0.750	77.34
50006750-750B*	6.750	7.750	0.750	81.25
50006750N750B/4651*	6.750	7.750	0.750	196.41
50007000-750B	7.000	8.000	0.750	88.47
50007000N750B/4651*	7.000	8.000	0.750	192.26
50007000Q750B	7.000	8.000	0.750	82.88
50007000Q750B/V	7.000	8.000	0.750	361.50
50007250-750B*	7.250	8.250	0.750	83.30
50007500-750B	7.500	8.500	0.750	98.03
50007500N750B/4651*	7.500	8.500	0.750	209.77

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50007750-750B	7.750	8.750	0.750	88.75
50008000-750B	8.000	9.000	0.750	93.42
50008000N750B/4651	8.000	9.000	0.750	218.19
50008000Q500B*	8.000	9.000	0.500	128.99
50008000Q750B	8.000	9.000	0.750	94.27
50008000V750B/V*	8.000	9.000	0.750	769.60
50008250-750B*	8.250	9.250	0.750	106.84
50008500-750B	8.500	9.500	0.750	142.34
50008500N750B/4651	8.500	9.500	0.750	231.52
50008500Q750B*	8.500	9.500	0.750	142.34
50008750-750B*	8.750	9.750	0.750	112.30
50009000-750B	9.000	10.000	0.750	115.93
50009000N750B/4651	9.000	10.000	0.750	244.34
50009250-750B*	9.250	10.250	0.750	112.42
50009250Q750B*	9.250	10.250	0.750	112.42
50009500-750B	9.500	10.500	0.750	189.06
50009500N750B/4651*	9.500	10.500	0.750	259.09
50009500Q750B	9.500	10.500	0.750	148.33
50010000-750B	10.000	11.000	0.750	172.42
50010000N750B/4651*	10.000	11.000	0.750	297.87
50010250-750B*	10.250	11.250	0.750	185.86
50010500-750B	10.500	11.500	0.750	182.27
50010500Q750B*	10.500	11.500	0.750	186.37
50010625-750B*	10.625	11.625	0.750	177.89
50010750-750B*	10.750	11.750	0.750	189.06
50011000-750B	11.000	12.000	0.750	260.85
50011000N750B/4651*	11.000	12.000	0.750	444.82
50011000Q750B*	11.000	12.000	0.750	197.82
50011250-750B*	11.250	12.250	0.750	239.67
50011375-750B*	11.375	12.375	0.750	211.53
50011500-750B*	11.500	12.500	0.750	269.25
50011750-750B*	11.750	12.750	0.750	252.27
50011875-750B*	11.875	12.875	0.750	325.38
50012000-750B	12.000	13.000	0.750	330.60
50012000Q750B	12.000	13.000	0.750	222.31
50012000V750B/4651*	12.000	13.000	0.750	568.37
50012125-750B*	12.125	13.125	0.750	214.04
50012250-750B*	12.250	13.250	0.750	216.32
50012500-750B*	12.500	13.500	0.750	300.59
50012500Q750B	12.500	13.500	0.750	239.37
50013000Q750B	13.000	14.000	0.750	271.74
50013000-750B/DS131A	13.000	14.000	0.750	754.24
50013250-750B*	13.250	14.250	0.750	287.42
50013250-750B/DS131A	13.250	14.250	0.750	1019.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

B series - Loaded U-Cups

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50013500-750B*	13.500	14.500	0.750	410.80
50014000-750B	14.000	15.000	0.750	469.47
50014000Q750B	14.000	15.000	0.750	362.16
50014000-750B/DS131A	14.000	15.000	0.750	375.80
50014420-500B*	14.420	15.420	0.500	352.80
50014750-750B	14.750	15.750	0.750	326.55
50015000-750B*	15.000	16.000	0.750	364.45
50015000N750B/4651*	15.000	16.000	0.750	731.03
50015000Q750B*	15.000	16.000	0.750	364.45
50015250-750B*	15.250	16.250	0.750	339.15
50015500-750B*	15.500	16.500	0.750	343.86
50015500N750B/4651*	15.500	16.500	0.750	637.32
50015750Q750B*	15.750	16.750	0.750	347.93
50016500-750B*	16.500	17.500	0.750	351.28
50016500Q750B*	16.500	17.500	0.750	424.90
50016750-750B*	16.750	17.750	0.750	356.26
50017000N750B/4651*	17.000	18.000	0.750	783.08
50017000Q750B	17.000	18.000	0.750	397.93
50017000Q750B/V*	17.000	18.000	0.750	1451.34
50017500-750B*	17.500	18.500	0.750	371.10
50017500Q750B*	17.500	18.500	0.750	381.22
50018000Q750B*	18.000	19.000	0.750	379.91
50019000Q750B*	19.000	20.000	0.750	397.51
50020000-750B	20.000	21.000	0.750	414.91
50020250-750B*	20.250	21.250	0.750	414.91
50021000-750B*	21.000	22.000	0.750	439.32
50022000-750B*	22.000	23.000	0.750	762.28
50024000-750B*	24.000	25.000	0.750	1000.33
50024500-750B*	24.500	25.500	0.750	1035.09
50024875-750B*	24.875	25.875	0.750	1035.09
50026125-750B*	26.125	27.125	0.750	1085.00
50026500-750B*	26.500	27.500	0.750	1085.00
50029000-750B*	29.000	30.000	0.750	1194.31
50029750-750B*	29.750	30.750	0.750	1228.14
50030750-750B*	30.750	31.750	0.750	1268.55
50031500-750B*	31.500	32.500	0.750	1612.14
50038000-750B*	38.000	39.000	0.750	2349.42
50038250-750B*	38.250	39.250	0.750	2349.42
50038750-750B*	38.750	39.750	0.750	2379.21
50041000-750B*	41.000	42.000	0.750	2514.64
50041750-750B*	41.750	42.750	0.750	2520.63
50042000-750B*	42.000	43.000	0.750	2691.42
50043500-750B*	43.500	44.500	0.750	2691.42
50044125-750B*	44.125	45.125	0.750	2699.77

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50046250-750B*	46.250	47.250	0.750	2870.74
50047500-750B*	47.500	48.500	0.750	2900.34
9/16" - Cross Section - 0.562"				
56202375-875B*	2.375	3.500	0.875	38.90
56212562-875B*	12.562	13.687	0.875	223.38
5/8" - Cross Section - 0.625"				
62502750-1000B*	2.750	4.000	1.000	49.48
62502875-1000B*	2.875	4.125	1.000	50.97
62503250-1000B*	3.250	4.500	1.000	53.60
62503750-1000B*	3.750	5.000	1.000	60.57
62504250-1000B*	4.250	5.500	1.000	#N/A
62504250Q1000B	4.250	5.500	1.000	73.43
62505000-1000B*	5.000	6.250	1.000	82.44
62505250-1000B	5.250	6.500	1.000	81.60
62505500-1000B	5.500	6.750	1.000	89.48
62505750-1000B*	5.750	7.000	1.000	#N/A
62506000-1000B	6.000	7.250	1.000	138.35
62506750-1000B*	6.750	8.000	1.000	147.12
62507000Q1000B	7.000	8.250	1.000	121.64
62507250-1000B*	7.250	8.500	1.000	128.67
62507500-1000B*	7.500	8.750	1.000	133.08
62507750-1000B*	7.750	9.000	1.000	134.15
62508250-1000B*	8.250	9.500	1.000	145.39
62508500Q1000B*	8.500	9.750	1.000	194.99
62509000-1000B*	9.000	10.250	1.000	157.50
62509000V1000B/4651*	9.000	10.250	1.000	387.67
62509750-1000B*	9.750	11.000	1.000	232.95
62510000-1000B*	10.000	11.250	1.000	#N/A
62510000Q1000B	10.000	11.250	1.000	223.14
62510500-750B*	10.500	11.750	0.750	254.83
62511000-1000B	11.000	12.250	1.000	446.59
62511250Q1000B*	11.250	12.500	1.000	280.64
62511500Q1000B*	11.500	12.750	1.000	283.61
62511750-1000B*	11.750	13.000	1.000	277.18
62512000-1000B	12.000	13.250	1.000	283.11
62512250-1000B*	12.250	13.500	1.000	287.40
62513500-875B*	13.500	14.750	0.875	367.15
62514000-1000B	14.000	15.250	1.000	381.82
62514750-950/DS131A	14.750	16.000	0.950	1004.37
62514750Q1000B*	14.750	16.000	1.000	456.47
62515500Q1000B*	15.500	16.750	1.000	436.14
62517750-1000B*	17.750	19.000	1.000	522.11

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Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/8" - Cross Section - 0.625"				
62518000-1000B*	18.000	19.250	1.000	733.79
62518750-1000B*	18.750	20.000	1.000	547.85
62519000-1250B*	19.000	20.250	1.250	569.44
62519750-1000B*	19.750	21.000	1.000	575.13
62530000-1000B*	30.000	31.250	1.000	1250.47
3/4" - Cross Section - 0.750"				
75003500-750B*	3.500	5.000	0.750	80.12
75008000-1125B*	8.000	9.500	1.125	151.75
75008000-1250B*	8.000	9.500	1.250	151.75
75008000Q1250B	8.000	9.500	1.250	151.75
75008500-1125B*	8.500	10.000	1.125	170.73
75009000Q1250B	9.000	10.500	1.250	237.09
75009750-1250B*	9.750	11.250	1.250	263.98
75010000Q1250B*	10.000	11.500	1.250	270.43
75010500-1000B*	10.500	12.000	1.000	282.68
75011500-1250B*	11.500	13.000	1.250	308.15
75012000-1250B	12.000	13.500	1.250	579.58
75012500-1250B*	12.500	14.000	1.250	389.10
75013000-1000B*	13.000	14.500	1.000	433.49
75014000Q1250B*	14.000	15.500	1.250	468.55
75015625-1250B*	15.625	17.125	1.250	591.89
75017375-1250B*	17.375	18.875	1.250	656.73

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/4" - Cross Section - 0.750"				
75017625-1250B*	17.625	19.125	1.250	656.73
75019000-1250B*	19.000	20.500	1.250	702.76
75020000-1000B*	20.000	21.500	1.000	586.69
75020000Q1250B*	20.000	21.500	1.250	735.31
75020500-1000B*	20.500	22.000	1.000	601.23
75023500-1250B*	23.500	25.000	1.250	1696.25
7/8" - Cross Section - 0.875"				
87519937-1375B*	19.937	21.687	1.375	789.76
87536000-1375B*	36.000	37.750	1.375	O/R
1" - Cross Section - 1.000"				
100012000-1500B*	12.000	14.000	1.500	516.54
100015000-1500B*	15.000	17.000	1.500	790.83
100016000-1250B*	16.000	18.000	1.250	720.83
100017500-1500B*	17.500	19.500	1.500	920.62
100021250-1500B*	21.250	23.250	1.500	2136.73
100024000-1500B*	24.000	26.000	1.500	2343.98
100026000-1500B*	26.000	28.000	1.500	2505.09
100029000-1500B*	29.000	31.000	1.500	2730.06
100030000-1500B*	30.000	32.000	1.500	2815.08
100030000N1500B/4651*	30.000	32.000	1.500	3800.37
100033375-1500B*	33.375	35.375	1.500	4602.63

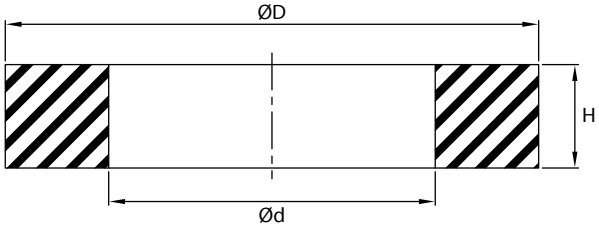
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Modular Back-up - Rod/Piston Seals - Inch



Standard Material	Temperature Range	Pressure Range
Urethane	-65°F to +250°F (-54°C to +121°C)	≤5000 psi (≤345 bar)



MB-style Modular Back-ups are specifically designed to complement single-acting type piston and rod seals. Used as an anti-extrusion device, the high-modulus material insures that the primary seal element remains protected from high loads and pressure spikes.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500125MB*	0.125	0.375	0.125	8.24
12500250MB*	0.250	0.500	0.125	8.24
12500282MB*	0.282	0.532	0.125	8.24
12500312MB*	0.312	0.562	0.125	8.24
12500375MB*	0.375	0.625	0.125	8.24
12500430MB*	0.430	0.680	0.125	8.24
12500500MB*	0.500	0.750	0.125	8.24
12500625MB*	0.625	0.875	0.125	8.44
12500687MB*	0.687	0.937	0.125	8.55
12500812MB*	0.812	1.062	0.125	9.09
12500937MB*	0.937	1.187	0.125	9.30
12501000MB*	1.000	1.250	0.125	9.45
12501062MB*	1.062	1.312	0.125	9.81
12501250MB	1.250	1.500	0.125	10.37
12501375MB	1.375	1.625	0.125	10.64
12501500MB*	1.500	1.750	0.125	11.11
12502500MB*	2.500	2.750	0.125	9.40
3/16" - Cross Section - 0.187"				
18700500MB*	0.500	0.875	0.187	8.55
18700625MB*	0.625	1.000	0.187	9.18
18701000MB*	1.000	1.375	0.187	10.60

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18701250MB*	1.250	1.625	0.187	11.50
18701312MB*	1.312	1.687	0.187	11.81
18701500MB	1.500	1.875	0.187	12.30
18701625MB*	1.625	2.000	0.187	12.61
18701750MB*	1.750	2.125	0.187	12.99
18701875MB*	1.875	2.250	0.187	13.33
18701937MB*	1.937	2.312	0.187	13.51
18702000MB	2.000	2.375	0.187	13.54
18702125MB*	2.125	2.500	0.187	13.96
18702250MB*	2.250	2.625	0.187	14.24
18702375MB*	2.375	2.750	0.187	14.74
18702500MB	2.500	2.875	0.187	14.90
18702625MB	2.625	3.000	0.187	15.43
18702750MB	2.750	3.125	0.187	16.16
18702875MB*	2.875	3.250	0.187	16.95
18703000MB*	3.000	3.375	0.187	17.15
18703125MB*	3.125	3.500	0.187	18.28
18703250MB*	3.250	3.625	0.187	19.22
18703375MB*	3.375	3.750	0.187	20.01
18703500MB*	3.500	3.875	0.187	21.44
18703625MB*	3.625	4.000	0.187	22.47
18703750MB*	3.750	4.125	0.187	23.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18703812MB*	3.812	4.187	0.187	24.15
18703875MB*	3.875	4.250	0.187	24.67
18704000MB*	4.000	4.375	0.187	O/R
18704125MB*	4.125	4.500	0.187	O/R
18705125MB*	5.125	5.500	0.187	O/R
7/32" - Cross Section - 0.218"				
21800750MB*	0.750	1.187	0.218	11.20
1/4" - Cross Section - 0.250"				
25000353MB*	0.353	0.853	0.250	11.20
25000478MB*	0.478	0.978	0.250	11.20
25000500MB*	0.500	1.000	0.250	11.20
25000625MB*	0.625	1.125	0.250	11.20
25000750MB	0.750	1.250	0.250	11.20
25000875MB*	0.875	1.375	0.250	11.37
25001000MB	1.000	1.500	0.250	11.63
25001062MB*	1.062	1.562	0.250	11.81
25001250MB	1.250	1.750	0.250	13.54
25001312MB*	1.312	1.812	0.250	12.61
25001375MB	1.375	1.875	0.250	14.81
25001500MB	1.500	2.000	0.250	13.24
25001562MB*	1.562	2.062	0.250	O/R
25001750MB	1.750	2.250	0.250	16.30
25001875MB*	1.875	2.375	0.250	16.36
25002000MB	2.000	2.500	0.250	17.66
25002000MB/4651*	2.000	2.500	0.250	24.40
25002000MB/4652*	2.000	2.500	0.250	26.35
25002125MB*	2.125	2.625	0.250	17.82
25002250MB	2.250	2.750	0.250	19.64
25002250MB/4652*	2.250	2.750	0.250	O/R
25002500MB	2.500	3.000	0.250	21.56
25002625MB*	2.625	3.125	0.250	22.31
25002750MB	2.750	3.250	0.250	22.54
25002875MB*	2.875	3.375	0.250	23.44
25003000MB	3.000	3.500	0.250	22.87
25003250MB	3.250	3.750	0.250	23.09
25003375MB*	3.375	3.875	0.250	26.87
25003500MB	3.500	4.000	0.250	23.09
25003500MB/4652*	3.500	4.000	0.250	41.36
25003625MB*	3.625	4.125	0.250	O/R
25003750MB*	3.750	4.250	0.250	29.59
25004000MB	4.000	4.500	0.250	30.80
25004125MB*	4.125	4.625	0.250	32.15

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25004250MB	4.250	4.750	0.250	33.02
25004500MB	4.500	5.000	0.250	35.38
25004625MB*	4.625	5.125	0.250	O/R
25004750MB*	4.750	5.250	0.250	O/R
25005000MB	5.000	5.500	0.250	35.85
25005000MB/4652*	5.000	5.500	0.250	51.85
25005250-187MB*	5.250	5.750	0.187	40.04
25005250MB*	5.250	5.750	0.250	40.04
25005500MB	5.500	6.000	0.250	45.82
25006000MB*	6.000	6.500	0.250	50.58
25006500MB*	6.500	7.000	0.250	O/R
25007250MB*	7.250	7.750	0.250	53.15
25007500MB*	7.500	8.000	0.250	54.93
25007750MB*	7.750	8.250	0.250	56.61
25009625MB*	9.625	10.125	0.250	O/R
25009750MB*	9.750	10.250	0.250	O/R
25010000MB*	10.000	10.500	0.250	74.99
25010750MB*	10.750	11.250	0.250	81.48
25013000MB*	13.000	13.500	0.250	111.03
9/32" - Cross Section - 0.281"				
28102250MB*	2.250	2.812	0.281	18.99
28102437MB*	2.437	3.000	0.281	O/R
28108000MB*	8.000	8.562	0.281	60.85
5/16" - Cross Section - 0.312"				
31200353MB*	0.353	0.978	0.312	12.68
31200812MB*	0.812	1.437	0.312	13.48
31201000MB*	1.000	1.625	0.312	O/R
31201250MB*	1.250	1.875	0.312	13.96
31201375MB*	1.375	2.000	0.312	15.32
31201500MB	1.500	2.125	0.312	16.39
31201625MB*	1.625	2.250	0.312	17.55
31201750MB	1.750	2.375	0.312	15.23
31201875MB*	1.875	2.500	0.312	18.20
31202000MB	2.000	2.625	0.312	17.00
31202125MB*	2.125	2.750	0.312	O/R
31202250MB*	2.250	2.875	0.312	18.72
31202312MB*	2.312	2.937	0.312	23.25
31202375MB*	2.375	3.000	0.312	24.32
31202500MB	2.500	3.125	0.312	26.83
31202625MB*	2.625	3.250	0.312	O/R
31202875MB*	2.875	3.500	0.312	O/R
31203000MB*	3.000	3.625	0.312	29.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Modular Back-up - AU 65D

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31203125MB*	3.125	3.750	0.312	29.99
31203500MB*	3.500	4.125	0.312	33.56
31203750MB*	3.750	4.375	0.312	35.66
31203875MB*	3.875	4.500	0.312	O/R
31204125MB*	4.125	4.750	0.312	39.28
31204250MB*	4.250	4.875	0.312	41.68
31204375MB	4.375	5.000	0.312	44.40
31204500MB*	4.500	5.125	0.312	40.96
31204875MB*	4.875	5.500	0.312	O/R
31205000MB*	5.000	5.625	0.312	O/R
31205375MB*	5.375	6.000	0.312	49.91
31205500MB*	5.500	6.125	0.312	O/R
31208000MB*	8.000	8.625	0.312	69.83
11/32" - Cross Section - 0.343"				
34301312MB*	1.312	2.000	0.343	20.32
3/16" - Cross Section - 0.345"				
34502000MB*	2.000	2.690	0.345	28.93
3/8" - Cross Section - 0.375"				
37500875MB*	0.875	1.625	0.375	17.65
37501000MB*	1.000	1.750	0.375	17.98
37501250MB*	1.250	2.000	0.375	19.75
37501375MB*	1.375	2.125	0.375	20.96
37501500MB*	1.500	2.250	0.375	29.34
37501625MB*	1.625	2.375	0.375	23.88
37501750-562MB	1.750	2.500	0.562	28.79
37501750MB*	1.750	2.500	0.375	25.53
37501875MB*	1.875	2.625	0.375	26.73
37502000MB*	2.000	2.750	0.375	29.79
37502250MB*	2.250	3.000	0.375	31.19
37502375MB*	2.375	3.125	0.375	32.55
37502500MB	2.500	3.250	0.375	39.50
37502625-570MB*	2.625	3.375	0.570	41.56
37502625MB	2.625	3.375	0.375	42.36
37502750-250MB*	2.750	3.500	0.250	30.63
37502750-250MB/P*	2.750	3.500	0.250	21.11
37502750MB	2.750	3.500	0.375	37.02
37503000MB	3.000	3.750	0.375	41.07
37503125MB*	3.125	3.875	0.375	41.56
37503250MB	3.250	4.000	0.375	42.87
37503375MB*	3.375	4.125	0.375	44.62
37503500-250MB*	3.500	4.250	0.250	44.14

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37503500MB	3.500	4.250	0.375	51.18
37503625-562MB	3.625	4.375	0.562	55.17
37503750MB*	3.750	4.500	0.375	48.55
37503875MB*	3.875	4.625	0.375	50.15
37504000MB	4.000	4.750	0.375	60.92
37504125MB*	4.125	4.875	0.375	53.15
37504250MB*	4.250	5.000	0.375	62.22
37504375MB*	4.375	5.125	0.375	56.01
37504500-250MB*	4.500	5.250	0.250	57.61
37504500-500MB*	4.500	5.250	0.500	66.28
37504500MB	4.500	5.250	0.375	57.61
37504500MB/4651*	4.500	5.250	0.375	O/R
37504500MB/4652*	4.500	5.250	0.375	93.29
37504750MB	4.750	5.500	0.375	71.24
37504875MB*	4.875	5.625	0.375	61.82
37505000-250MB*	5.000	5.750	0.250	63.42
37505000MB	5.000	5.750	0.375	74.56
37505250MB	5.250	6.000	0.375	66.58
37505375MB*	5.375	6.125	0.375	67.84
37505500MB*	5.500	6.250	0.375	79.54
37505875MB*	5.875	6.625	0.375	73.65
37506000MB	6.000	6.750	0.375	74.86
37506250MB	6.250	7.000	0.375	86.69
37506250MB/4651*	6.250	7.000	0.375	O/R
37506250MB/4652*	6.250	7.000	0.375	116.29
37506500MB	6.500	7.250	0.375	93.05
37507000MB*	7.000	7.750	0.375	91.39
37507250MB*	7.250	8.000	0.375	85.30
37507500MB*	7.500	8.250	0.375	87.83
37507750MB*	7.750	8.500	0.375	90.15
37508500MB*	8.500	9.250	0.375	100.54
37509000MB*	9.000	9.750	0.375	102.90
37509250MB	9.250	10.000	0.375	105.28
37509750MB*	9.750	10.500	0.375	110.52
37510000MB*	10.000	10.750	0.375	113.47
37510000MB/4651*	10.000	10.750	0.375	O/R
37510000MB/4652*	10.000	10.750	0.375	192.01
37510500MB*	10.500	11.250	0.375	118.13
37511000MB*	11.000	11.750	0.375	123.27
37511250MB*	11.250	12.000	0.375	125.94
37512250MB*	12.250	13.000	0.375	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
7/16" - Cross Section - 0.437"				
43701000MB*	1.000	1.875	0.437	18.22
43702125-875MB*	2.125	3.000	0.875	34.98
43702125MB*	2.125	3.000	0.437	31.73
43702250-375MB*	2.250	3.125	0.375	29.11
43703875-226MB*	3.875	4.750	0.226	53.15
43703875-266MB	3.875	4.750	0.266	55.83
43704750-312MB*	4.750	5.625	0.312	48.76
43705000MB*	5.000	5.875	0.437	66.71
1/2" - Cross Section - 0.500"				
50001250MB*	1.250	2.250	0.500	O/R
50002000MB*	2.000	3.000	0.500	39.51
50002250MB*	2.250	3.250	0.500	43.30
50002375MB*	2.375	3.375	0.500	45.32
50002500MB*	2.500	3.500	0.500	47.32
50002750MB*	2.750	3.750	0.500	51.25
50003000MB	3.000	4.000	0.500	64.29
50003500MB*	3.500	4.500	0.500	62.49
50003750MB*	3.750	4.750	0.500	66.38
50004000MB*	4.000	5.000	0.500	70.80
50004250MB*	4.250	5.250	0.500	74.70
50004500MB*	4.500	5.500	0.500	78.52
50004750MB*	4.750	5.750	0.500	O/R
50005000MB*	5.000	6.000	0.500	86.37
50005250MB*	5.250	6.250	0.500	88.25
50005500MB	5.500	6.500	0.500	93.81
50006000MB*	6.000	7.000	0.500	98.58
50006500MB*	6.500	7.500	0.500	101.66
50006750MB*	6.750	7.750	0.500	103.92
50007000MB	7.000	8.000	0.500	106.35
50007000MB/4651*	7.000	8.000	0.500	O/R
50007000MB/4652*	7.000	8.000	0.500	172.49
50007250MB*	7.250	8.250	0.500	108.74
50008000MB	8.000	9.000	0.500	10.57
50008500MB	8.500	9.500	0.500	125.31
50009000MB	9.000	10.000	0.500	145.19
50009500MB	9.500	10.500	0.500	139.20
50010000MB	10.000	11.000	0.500	146.49

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50010500MB	10.500	11.500	0.500	153.58
50011500MB	11.500	12.500	0.500	167.90
50012000MB*	12.000	13.000	0.500	175.02
50013000MB/4652*	13.000	14.000	0.500	283.57
50013500MB*	13.500	14.500	0.500	227.58
50015000MB	15.000	16.000	0.500	276.36
50017000MB	17.000	18.000	0.500	298.30
50019000MB*	19.000	20.000	0.500	330.14
50021000MB*	21.000	22.000	0.500	362.89
50029000MB*	29.000	30.000	0.500	O/R
5/8" - Cross Section - 0.625"				
62502000MB*	2.000	3.250	0.625	48.23
62502500MB*	2.500	3.750	0.625	57.09
62502750MB*	2.750	4.000	0.625	61.68
62503000MB*	3.000	4.250	0.625	65.48
62503250MB*	3.250	4.500	0.625	69.47
62504625MB*	4.625	5.875	0.625	93.81
62504750MB*	4.750	6.000	0.625	96.32
62506750MB*	6.750	8.000	0.625	135.81
62507000MB*	7.000	8.250	0.625	140.03
62512750MB*	12.750	14.000	0.625	276.59
62530000MB*	30.000	31.250	0.625	O/R
3/4" - Cross Section - 0.750"				
75006000MB*	6.000	7.500	0.750	O/R
75006500MB*	6.500	8.000	0.750	150.52
75007500MB*	7.500	9.000	0.750	171.56
75008000MB*	8.000	9.500	0.750	182.12
75008500MB*	8.500	10.000	0.750	192.28
75009812MB*	9.812	11.312	0.750	220.81
7/8" - Cross Section - 0.875"				
87536000MB*	36.000	37.750	0.875	O/R
1" - Cross Section - 1.000"				
100030000MB*	30.000	32.000	1.000	O/R

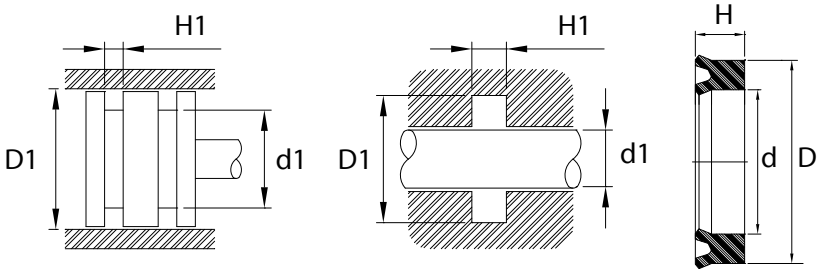
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



US - Rod/Piston Seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
STD AU 90A	-40°F to +212°F (-40°C to +100°C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)
601 Hythane 93A	-49°F to +230°F (-45°C to +110°C)	≤5000 psi (≤345 bar)	
9250 Polyurethane AU 92A	-40°F to +212°F (-40°C to +100°C)	≤6000 psi (≤414 bar)	
4615 Polyurethane AU 92A	-65°F to +200°F (-53°C to +94°C)	≤5000 psi (≤345 bar)	



The **US** profile is a U-Cup type single-acting seal. It can be used separately for single acting cylinder designs. or in back-to-back usage in separate grooves for double-acting cylinders. Both the static and dynamic sides of the lip area are knife-trimmed offering maximum sealing force and thus preventing drift.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department.

Piston Gland Dimension Tolerances			
Gland Depth Nom. (C/S)	**D1**	**d1**	**H1**
0.125"	+.002/-.000	+.000/-.002	+.015 -.000
0.187"	+.002/-.000	+.000/-.002	
0.250"	+.003/-.000	+.000/-.003	
0.312"	+.003/-.000	+.000/-.004	
0.375"	+.004/-.000	+.000/-.005	
0.437"	+.005/-.000	+.000/-.006	
0.500"	+.005/-.000	+.000/-.007	
0.562	+.006/-.000	+.000/-.008	
0.625"	+.006/-.000	+.000/-.009	
0.750"	+.007/-.000	+.000/-.010	
0.875"	+.008/-.000	+.000/-.011	
1.000"	+.009/-.000	+.000/-.012	

Rod Gland Dimension Tolerances			
Gland Depth Nom. (C/S)	**D1**	**d1**	**H1**
0.125"	+.000/-.001	+.002/-.000	+.015 -.000
0.187"	+.000/-.002	+.002/-.000	
0.250"	+.000/-.002	+.003/-.000	
0.312"	+.000/-.002	+.004/-.000	
0.375"	+.000/-.002	+.005/-.000	
0.437"	+.000/-.003	+.006/-.000	
0.500"	+.000/-.003	+.007/-.000	
0.625"	+.000/-.003	+.009/-.000	
0.750""	+.000/-.004	+.011/-.000	
1.000"	+.000/-.005	+.015/-.000	

Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
0.039" - Cross Section - 0.039"										
US03901141-200	**1.141**	1.141	1.218	0.200	1.218	0.231	---	13.78*	---	---
3/32" - Cross Section - 0.093"										
US09300562-093	**0.562**	0.562	0.750	0.093	0.750	0.125	8.46*	---	---	10.57*
1/8" - Cross Section - 0.125"										
US12500093	**0.093**	0.093	0.343	0.125	0.343	0.156	8.46*	---	---	10.57*
US12500125	**0.125**	0.125	0.375	0.125	0.375	0.156	---	10.26*	---	---
US12500125-187	**0.125**	0.125	0.375	0.187	0.375	0.218	---	10.41*	---	---
US12500125-250	**0.125**	0.125	0.375	0.250	0.375	0.281	---	10.26*	---	---
US12500187	**0.187**	0.187	0.437	0.125	0.437	0.156	---	10.07*	---	---
US12500187-187	**0.187**	0.187	0.437	0.187	0.437	0.218	---	10.57	---	---
US12500187-250	**0.187**	0.187	0.437	0.250	0.437	0.281	---	10.07*	---	---
US12500250	**0.250**	0.250	0.500	0.125	0.500	0.156	---	10.41	---	---
US12500250-187	**0.250**	0.250	0.500	0.187	0.500	0.218	---	9.69*	---	---
US12500250-250	**0.250**	0.250	0.500	0.250	0.500	0.281	8.46*	10.57*	---	10.57
US12500312	**0.312**	0.312	0.562	0.125	0.562	0.156	8.56*	10.71*	---	10.71*
US12500312-187	**0.312**	0.312	0.562	0.187	0.562	0.218	---	10.71*	---	---
US12500312-250	**0.312**	0.312	0.562	0.250	0.562	0.281	9.76*	12.20*	---	12.20*
US12500375	**0.375**	0.375	0.625	0.125	0.625	0.156	---	9.73*	---	---
US12500375-187	**0.375**	0.375	0.625	0.187	0.625	0.218	---	11.18	---	---
US12500375-250	**0.375**	0.375	0.625	0.250	0.625	0.281	8.92*	11.15*	---	11.15
US12500437	**0.437**	0.437	0.687	0.125	0.687	0.156	---	4.83*	---	---
US12500437-187	**0.437**	0.437	0.687	0.187	0.687	0.218	9.69*	12.11*	---	12.11
US12500437-250	**0.437**	0.437	0.687	0.250	0.687	0.281	---	12.41*	---	---
US12500500	**0.500**	0.500	0.750	0.125	0.750	0.156	8.12*	10.15*	---	10.15
US12500500-187	**0.500**	0.500	0.750	0.187	0.750	0.218	---	11.48*	---	---
US12500500-250	**0.500**	0.500	0.750	0.250	0.750	0.281	9.18*	11.48	11.48	11.48*
US12500562	**0.562**	0.562	0.812	0.125	0.812	0.156	---	9.63*	---	---
US12500562-187	**0.562**	0.562	0.812	0.187	0.812	0.218	---	11.77*	---	---
US12500562-250	**0.562**	0.562	0.812	0.250	0.812	0.281	---	11.93*	---	---
US12500625	**0.625**	0.625	0.875	0.125	0.875	0.156	8.64*	10.80	---	10.80*
US12500625-120	**0.625**	0.625	0.875	0.120	0.875	0.151	---	10.80*	---	---
US12500625-187	**0.625**	0.625	0.875	0.187	0.875	0.218	9.69*	12.11	---	12.11*
US12500625-250	**0.625**	0.625	0.875	0.250	0.875	0.281	8.64*	10.80	---	10.80*
US12500687	**0.687**	0.687	0.937	0.125	0.937	0.156	---	12.41*	---	---
US12500750	**0.750**	0.750	1.000	0.125	1.000	0.156	8.94	11.18	---	11.18*
US12500750-160	**0.750**	0.750	1.000	0.160	1.000	0.191	---	12.41*	---	---
US12500750-187	**0.750**	0.750	1.000	0.187	1.000	0.218	8.94*	11.18*	---	11.18
US12500750-250	**0.750**	0.750	1.000	0.250	1.000	0.281	8.94*	11.18	---	---
US12500812	**0.812**	0.812	1.063	0.125	1.063	0.156	---	11.93*	---	---
US12500812-250	**0.812**	0.812	1.062	0.250	1.062	0.281	9.54*	11.93*	---	11.93*
US12500875	**0.875**	0.875	1.125	0.125	1.125	0.156	---	11.62*	---	---
US12500875-172	**0.875**	0.875	1.125	0.172	1.125	0.203	9.30*	11.62*	---	11.62*

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/8" Cross Section - 0.125"										
US12500875-187	**0.875**	0.875	1.125	0.187	1.125	0.218	---	13.01*	---	---
US12500875-250	**0.875**	0.875	1.125	0.250	1.125	0.281	9.30*	11.62*	---	11.62*
US12500937	**0.937**	0.937	1.187	0.125	1.187	0.156	---	10.87*	---	---
US12500937-160	**0.937**	0.937	1.187	0.160	1.187	0.191	---	12.87*	---	---
US12500937-187	**0.937**	0.937	1.187	0.187	1.187	0.218	---	13.01*	---	---
US12500937-250	**0.937**	0.937	1.187	0.250	1.187	0.281	---	13.32*	---	---
US12501000	**1.000**	1.000	1.250	0.125	1.250	0.156	9.71*	12.14	---	12.14*
US12501000-156	**1.000**	1.000	1.250	0.156	1.250	0.187	---	17.43	---	---
US12501000-187	**1.000**	1.000	1.250	0.187	1.250	0.218	---	12.14	---	---
US12501000-250	**1.000**	1.000	1.250	0.250	1.250	0.281	9.71*	12.14	---	12.14
US12501125	**1.125**	1.125	1.375	0.125	1.375	0.156	---	12.62	---	---
US12501125-187	**1.125**	1.125	1.375	0.187	1.375	0.218	11.15*	13.93	---	13.93*
US12501125-250	**1.125**	1.125	1.375	0.250	1.375	0.281	---	12.62	---	---
US12501250	**1.250**	1.250	1.500	0.125	1.500	0.156	11.15*	13.93	---	13.93*
US12501250-187	**1.250**	1.250	1.500	0.187	1.500	0.218	11.15*	---	---	13.93*
US12501250-250	**1.250**	1.250	1.500	0.250	1.500	0.281	11.15*	13.93	---	13.93
US12501312-250	**1.312**	1.312	1.563	0.250	1.563	0.281	---	14.38*	---	---
US12501375-156	**1.375**	1.375	1.625	0.156	1.625	0.187	12.12*	---	---	13.93*
US12501375-187	**1.375**	1.375	1.625	0.187	1.625	0.218	12.12*	---	---	13.93*
US12501375-250	**1.375**	1.375	1.625	0.250	1.625	0.281	---	14.82	---	---
US12501500-187	**1.500**	1.500	1.750	0.187	1.750	0.218	12.12*	---	---	15.87*
US12501500-250	**1.500**	1.500	1.750	0.250	1.750	0.281	12.12*	15.15*	---	15.15
US12501750	**1.750**	1.750	2.000	0.125	2.000	0.156	12.12*	---	---	15.15*
US12504000-375	**4.000**	4.000	4.250	0.375	4.250	0.406	---	17.90*	---	---
US12504750-187	**4.750**	4.750	5.000	0.187	5.000	0.218	20.74*	---	---	---
5/32" - Cross Section - 0.156"										
US15600187-187	**0.187**	0.187	0.500	0.187	0.500	0.218	---	10.71	---	---
US15601000-219	**1.000**	1.000	1.312	0.218	1.312	0.250	---	15.77*	---	---
0.157" - Cross Section - 0.157"										
US15701375-219	**1.375**	1.375	1.688	0.218	1.688	0.250	---	15.77*	---	---
3/16" - Cross Section - 0.187"										
US18700187-312	**0.187**	0.187	0.562	0.312	0.562	0.343	9.14*	---	---	11.42*
US18700250	**0.250**	0.250	0.625	0.187	0.625	0.218	---	10.87*	---	---
US18700250-250	**0.250**	0.250	0.625	0.250	0.625	0.281	---	11.42*	---	---
US18700250-312	**0.250**	0.250	0.625	0.312	0.625	0.343	9.14*	11.42*	---	11.42
US18700375	**0.375**	0.375	0.750	0.187	0.750	0.218	8.94*	11.18*	---	11.18*
US18700375-250	**0.375**	0.375	0.750	0.250	0.750	0.281	---	11.33*	---	---
US18700375-312	**0.375**	0.375	0.750	0.312	0.750	0.343	9.17*	11.46*	---	11.46*
US18700437-250	**0.437**	0.437	0.812	0.250	0.812	0.281	---	11.79*	---	---
US18700500	**0.500**	0.500	0.875	0.187	0.875	0.218	---	13.82	---	---
US18700500-197	**0.500**	0.500	0.875	0.197	0.875	0.228	---	---	11.48*	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/16" - Cross Section - 0.187"										
US18700500-250	**0.500**	0.500	0.875	0.250	0.875	0.281	9.81*	12.26*	---	12.26
US18700500-312	**0.500**	0.500	0.875	0.312	0.875	0.343	9.21*	11.52*	---	11.52*
US18700562	**0.562**	0.562	0.937	0.187	0.937	0.218	---	12.35*	---	---
US18700562-250	**0.562**	0.562	0.937	0.250	0.937	0.281	---	12.41*	---	---
US18700562-312	**0.562**	0.562	0.937	0.312	0.937	0.343	---	11.33*	---	---
US18700625	**0.625**	0.625	1.000	0.187	1.000	0.218	---	11.91*	11.91	---
US18700625-250	**0.625**	0.625	1.000	0.250	1.000	0.281	9.53*	11.91*	---	11.91
US18700625-312	**0.625**	0.625	1.000	0.312	1.000	0.343	10.35*	12.93*	---	12.93*
US18700687-312	**0.687**	0.687	1.063	0.312	1.063	0.343	---	12.72*	---	---
US18700750	**0.750**	0.750	1.125	0.187	1.125	0.218	---	12.22	---	---
US18700750-250	**0.750**	0.750	1.125	0.250	1.125	0.281	---	12.22	---	---
US18700750-312	**0.750**	0.750	1.125	0.312	1.125	0.343	10.41*	13.01	---	13.01*
US18700812-250	**0.812**	0.812	1.187	0.250	1.187	0.281	---	12.87*	---	---
US18700812-312	**0.812**	0.812	1.187	0.312	1.187	0.343	10.29*	12.87*	---	12.87*
US18700875	**0.875**	0.875	1.250	0.187	1.250	0.218	---	12.56*	---	---
US18700875-250	**0.875**	0.875	1.250	0.250	1.250	0.281	10.02*	12.53*	---	12.53
US18700875-312	**0.875**	0.875	1.250	0.312	1.250	0.343	10.78*	13.47	---	13.47*
US18700875-375	**0.875**	0.875	1.250	0.375	1.250	0.406	---	13.78*	---	---
US18700937	**0.937**	0.937	1.312	0.187	1.312	0.218	---	13.01*	---	---
US18700937-312	**0.937**	0.937	1.312	0.312	1.312	0.343	---	13.64*	---	---
US18701000	**1.000**	1.000	1.375	0.187	1.375	0.218	10.14*	12.68*	---	12.68
US18701000-250	**1.000**	1.000	1.375	0.250	1.375	0.281	---	12.68	---	---
US18701000-312	**1.000**	1.000	1.375	0.312	1.375	0.343	14.17*	17.71	---	17.71*
US18701062-250	**1.063**	1.063	1.438	0.250	1.438	0.281	---	13.78*	---	---
US18701062-312	**1.063**	1.063	1.438	0.312	1.438	0.343	---	14.85*	---	---
US18701125	**1.125**	1.125	1.500	0.187	1.500	0.218	10.35*	12.93*	---	12.93*
US18701125-250	**1.125**	1.125	1.500	0.250	1.500	0.281	10.35*	12.93	---	12.93
US18701125-312	**1.125**	1.125	1.500	0.312	1.500	0.343	---	13.96	---	---
US18701187-312	**1.187**	1.187	1.563	0.312	1.563	0.343	---	15.31*	---	---
US18701250	**1.250**	1.250	1.625	0.187	1.625	0.218	---	14.08*	---	---
US18701250-250	**1.250**	1.250	1.625	0.250	1.625	0.281	---	14.27	---	---
US18701250-312	**1.250**	1.250	1.625	0.312	1.625	0.343	---	16.54	---	---
US18701250-375	**1.250**	1.250	1.625	0.375	1.625	0.406	10.35*	---	---	12.93*
US18701312-312	**1.312**	1.312	1.687	0.312	1.687	0.343	12.61*	15.77*	---	15.77*
US18701375-250	**1.375**	1.375	1.750	0.250	1.750	0.281	---	16.46	---	---
US18701375-312	**1.375**	1.375	1.750	0.312	1.750	0.343	13.17*	16.46	---	16.46*
US18701375-375	**1.375**	1.375	1.750	0.375	1.750	0.406	---	---	11.91	---
US18701437-250	**1.437**	1.438	1.813	0.250	1.813	0.281	---	16.46*	---	---
US18701437-312	**1.437**	1.438	1.813	0.312	1.813	0.343	---	16.54*	---	---
US18701500	**1.500**	1.500	1.875	0.187	1.875	0.218	13.46*	16.82	---	16.82
US18701500-250	**1.500**	1.500	1.875	0.250	1.875	0.281	---	16.82	---	---
US18701500-312	**1.500**	1.500	1.875	0.312	1.875	0.343	13.46*	16.82	---	16.82
US18701500-375	**1.500**	1.500	1.875	0.375	1.875	0.406	13.46*	16.82	---	16.82*
US18701625	**1.625**	1.625	2.000	0.187	2.000	0.218	14.48*	---	---	16.82

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/16" - Cross Section - 0.187"										
US18701625-250	**1.625**	1.625	2.000	0.250	2.000	0.281	14.48*	18.10	---	18.10
US18701625-281	**1.625**	1.625	2.000	0.281	2.000	0.312	---	4.50*	---	18.10*
US18701625-312	**1.625**	1.625	2.000	0.312	2.000	0.343	14.48*	18.10	---	18.10
US18701625-375	**1.625**	1.625	2.000	0.375	2.000	0.406	14.48*	18.10	---	18.10*
US18701750	**1.750**	1.750	2.125	0.187	2.125	0.218	14.86*	18.58*	---	18.58*
US18701750-250	**1.750**	1.750	2.125	0.250	2.125	0.281	15.00*	18.75*	---	18.75
US18701750-281	**1.750**	1.750	2.125	0.281	2.125	0.312	---	4.75*	---	4.75*
US18701750-312	**1.750**	1.750	2.125	0.312	2.125	0.343	15.00*	18.75	---	18.75*
US18701750-375	**1.750**	1.750	2.125	0.375	2.125	0.406	15.00*	18.75	---	18.75
US18701875	**1.875**	1.875	2.250	0.187	2.250	0.218	---	20.37*	---	---
US18701875-281	**1.875**	1.875	2.250	0.281	2.250	0.312	---	5.05*	---	5.05*
US18701875-312	**1.875**	1.875	2.250	0.312	2.250	0.343	---	20.37	---	---
US18701875-375	**1.875**	1.875	2.250	0.375	2.250	0.406	---	20.37	---	---
US18702000-250	**2.000**	2.000	2.375	0.250	2.375	0.281	17.81*	22.26	---	22.26
US18702000-281	**2.000**	2.000	2.375	0.281	2.375	0.312	---	22.26*	---	22.26*
US18702000-312	**2.000**	2.000	2.375	0.312	2.375	0.343	17.81*	22.26	---	22.26*
US18702000-375	**2.000**	2.000	2.375	0.375	2.375	0.406	17.81*	22.26	---	22.26
US18702125	**2.125**	2.125	2.500	0.187	2.500	0.218	15.98*	19.98	---	19.98*
US18702125-250	**2.125**	2.125	2.500	0.250	2.500	0.281	---	19.98	19.98	---
US18702125-312	**2.125**	2.125	2.500	0.312	2.500	0.343	18.72*	23.40	---	23.40*
US18702125-375	**2.125**	2.125	2.500	0.375	2.500	0.406	---	23.40	---	---
US18702250	**2.250**	2.250	2.625	0.187	2.625	0.218	---	23.65*	---	---
US18702250-312	**2.250**	2.250	2.625	0.312	2.625	0.343	18.93*	23.67*	---	23.67*
US18702250-375	**2.250**	2.250	2.625	0.375	2.625	0.406	---	23.67	---	---
US18702375-375	**2.375**	2.375	2.750	0.375	2.750	0.406	---	24.89	---	---
US18702500-250	**2.500**	2.500	2.875	0.250	2.875	0.281	---	26.93	---	---
US18702500-312	**2.500**	2.500	2.875	0.312	2.875	0.343	18.93*	---	---	26.93*
US18702500-375	**2.500**	2.500	2.875	0.375	2.875	0.406	21.55*	26.93*	---	26.93
US18702625-250	**2.625**	2.625	3.000	0.250	3.000	0.281	---	27.73*	27.73	---
US18702625-281	**2.625**	2.625	3.000	0.281	3.000	0.312	---	27.74*	---	---
US18702625-312	**2.625**	2.625	3.000	0.312	3.000	0.343	---	27.74	---	---
US18702625-375	**2.625**	2.625	3.000	0.375	3.000	0.406	22.18*	27.73	---	27.73*
US18702875	**2.875**	2.875	3.250	0.187	3.250	0.218	---	28.03*	---	---
US18702875-250	**2.875**	2.875	3.250	0.250	3.250	0.281	---	28.03	---	---
US18702875-375	**2.875**	2.875	3.250	0.375	3.250	0.406	---	28.03*	---	---
US18703000-375	**3.000**	3.000	3.375	0.375	3.375	0.406	22.68*	28.35	---	28.35*
US18703125-375	**3.125**	3.125	3.500	0.375	3.500	0.406	22.97*	28.71	---	28.71*
US18703250-375	**3.250**	3.250	3.625	0.375	3.625	0.406	---	28.93*	---	---
US18703375-375	**3.375**	3.375	3.750	0.375	3.750	0.406	---	28.93*	---	---
US18703500-375	**3.500**	3.500	3.875	0.375	3.875	0.406	23.94*	29.93	---	29.93*
US18703625	**3.625**	3.625	4.000	0.187	4.000	0.218	32.36*	---	---	40.45*
US18703625-250	**3.625**	3.625	4.000	0.250	4.000	0.281	32.36*	40.45	---	40.45*
US18703625-375	**3.625**	3.625	4.000	0.375	4.000	0.406	33.36*	41.70*	---	41.70
US18703750-375	**3.750**	3.750	4.125	0.375	4.125	0.406	---	36.40*	---	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/16" - Cross Section - 0.187"										
US18703875-375	**3.875**	3.875	4.250	0.375	4.250	0.406	42.39*	52.99*	---	52.99*
US18704000-375	**4.000**	4.000	4.375	0.375	4.375	0.406	29.93*	37.41*	---	37.41*
US18704375-375	**4.375**	4.375	4.750	0.375	4.750	0.406	---	98.71*	---	---
US18704500-375	**4.500**	4.500	4.875	0.375	4.875	0.406	---	52.83*	---	---
US18705000-375	**5.000**	5.000	5.375	0.375	5.375	0.406	31.87*	---	---	37.41*
US18705375-375	**5.375**	5.375	5.750	0.375	5.750	0.406	---	65.07*	---	---
US18705500-375	**5.500**	5.500	5.875	0.375	5.875	0.406	33.45*	---	---	40.74*
7/32" - Cross Section - 0.219"										
US21903000-375	**3.000**	3.000	3.438	0.375	3.438	0.406	---	40.42*	---	---
0.235" - Cross Section - 0.235"										
US23501422-250	**1.422**	1.422	1.891	0.250	1.891	0.281	---	18.08*	---	---
1/4" - Cross Section - 0.250"										
US25000250	**0.250**	0.250	0.750	0.250	0.750	0.281	---	13.78*	---	---
US25000250-312	**0.250**	0.250	0.750	0.312	0.750	0.343	11.51*	14.39*	---	14.39*
US25000250-375	**0.250**	0.250	0.750	0.375	0.750	0.406	---	15.01*	---	---
US25000312	**0.312**	0.312	0.812	0.250	0.812	0.281	---	13.78*	---	---
US25000312-312	**0.312**	0.312	0.812	0.312	0.812	0.343	11.51*	---	---	15.98*
US25000312-375	**0.312**	0.312	0.812	0.375	0.812	0.406	11.51*	---	---	15.98*
US25000375	**0.375**	0.375	0.875	0.250	0.875	0.281	---	13.78*	---	---
US25000375-312	**0.375**	0.375	0.875	0.312	0.875	0.343	11.39*	14.24*	---	14.24*
US25000375-375	**0.375**	0.375	0.875	0.375	0.875	0.406	---	14.54*	---	---
US25000500	**0.500**	0.500	1.000	0.250	1.000	0.281	8.40*	10.50	10.50*	10.50*
US25000500-312	**0.500**	0.500	1.000	0.312	1.000	0.343	---	5.89*	---	---
US25000500-357	**0.500**	0.500	1.000	0.357	1.000	0.388	---	13.47*	---	---
US25000500-375	**0.500**	0.500	1.000	0.375	1.000	0.406	---	10.50*	---	---
US25000562	**0.562**	0.562	1.062	0.250	1.062	0.281	8.75*	---	---	10.94*
US25000625	**0.625**	0.625	1.125	0.250	1.125	0.281	---	10.94*	10.94	---
US25000625-375	**0.625**	0.625	1.125	0.375	1.125	0.406	8.75*	10.94*	---	10.94*
US25000687	**0.687**	0.687	1.187	0.250	1.187	0.281	---	13.78*	---	---
US25000687-375	**0.687**	0.687	1.187	0.375	1.187	0.406	---	18.51*	---	---
US25000750	**0.750**	0.750	1.250	0.250	1.250	0.281	9.13*	11.41*	11.41	11.41*
US25000750-375	**0.750**	0.750	1.250	0.375	1.250	0.406	9.13*	11.41*	---	11.41*
US25000812	**0.812**	0.812	1.312	0.250	1.312	0.281	---	13.78*	---	---
US25000812-375	**0.812**	0.812	1.312	0.375	1.312	0.406	---	14.70*	---	---
US25000875	**0.875**	0.875	1.375	0.250	1.375	0.281	---	11.85*	---	---
US25000875-312	**0.875**	0.875	1.375	0.312	1.375	0.343	---	15.01*	---	---
US25000875-375	**0.875**	0.875	1.375	0.375	1.375	0.406	---	11.85	---	---
US25000937	**0.937**	0.937	1.438	0.250	1.438	0.281	---	12.72*	---	---
US25001000	**1.000**	1.000	1.500	0.250	1.500	0.281	9.86*	12.33*	12.33	12.33*
US25001000-312	**1.000**	1.000	1.500	0.312	1.500	0.343	---	12.33*	---	---
US25001000-375	**1.000**	1.000	1.500	0.375	1.500	0.406	9.86*	12.33	---	12.33*

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/4" - Cross Section - 0.250"										
US25001062	**1.062**	1.062	1.565	0.250	1.565	0.281	---	17.31*	---	---
US25001125	**1.125**	1.125	1.625	0.250	1.625	0.281	11.76*	14.70*	---	14.70*
US25001125-281	**1.125**	1.125	1.625	0.281	1.625	0.312	---	15.31*	---	---
US25001125-312	**1.125**	1.125	1.625	0.312	1.625	0.343	---	12.74*	---	---
US25001125-375	**1.125**	1.125	1.625	0.375	1.625	0.406	---	12.74	---	---
US25001187	**1.187**	1.187	1.687	0.250	1.687	0.281	11.04*	13.80	---	13.80*
US25001187-312	**1.187**	1.187	1.688	0.312	1.688	0.343	---	15.61	---	---
US25001250	**1.250**	1.250	1.750	0.250	1.750	0.281	12.15*	15.19	15.19	15.19*
US25001250-312	**1.250**	1.250	1.750	0.312	1.750	0.343	---	15.19	---	---
US25001250-375	**1.250**	1.250	1.750	0.375	1.750	0.406	12.15*	15.19	15.19	15.19*
US25001312-375	**1.312**	1.312	1.813	0.375	1.813	0.406	---	17.06*	---	---
US25001375	**1.375**	1.375	1.875	0.250	1.875	0.281	---	---	---	---
US25001375-312	**1.375**	1.375	1.875	0.312	1.875	0.343	---	17.23*	---	---
US25001375-375	**1.375**	1.375	1.875	0.375	1.875	0.406	13.64*	17.05	---	17.05*
US25001500	**1.500**	1.500	2.000	0.250	2.000	0.281	---	18.10*	18.10	---
US25001500-250	**1.500**	1.500	2.000	0.250	2.000	0.281	13.64	---	---	---
US25001500-312	**1.500**	1.500	2.000	0.312	2.000	0.343	14.48*	18.10	---	18.10*
US25001500-375	**1.500**	1.500	2.000	0.375	2.000	0.406	14.48*	18.10	18.10	18.10*
US25001625-375	**1.625**	1.625	2.125	0.375	2.125	0.406	---	19.91	---	---
US25001750	**1.750**	1.750	2.250	0.250	2.250	0.281	---	20.37	20.37*	---
US25001750-312	**1.750**	1.750	2.250	0.312	2.250	0.343	---	20.37*	---	---
US25001750-375	**1.750**	1.750	2.250	0.375	2.250	0.406	16.30*	20.37	20.37	20.37*
US25002000	**2.000**	2.000	2.500	0.250	2.500	0.281	---	23.40	---	---
US25002000-375	**2.000**	2.000	2.500	0.375	2.500	0.406	18.72*	23.40	23.40	23.40*
US25002125	**2.125**	2.125	2.625	0.250	2.625	0.281	---	23.88*	---	---
US25002125-312	**2.125**	2.125	2.625	0.312	2.625	0.343	---	9.77*	---	---
US25002125-375	**2.125**	2.125	2.625	0.375	2.625	0.406	---	24.60*	24.60*	---
US25002250-312	**2.250**	2.250	2.750	0.312	2.750	0.343	---	24.89	---	---
US25002250-375	**2.250**	2.250	2.750	0.375	2.750	0.406	19.92*	24.89	---	24.89*
US25002375-375	**2.375**	2.375	2.875	0.375	2.875	0.406	20.24*	25.30*	---	25.30*
US25002500	**2.500**	2.500	3.000	0.250	3.000	0.281	---	26.89	---	26.89*
US25002500-312	**2.500**	2.500	3.000	0.312	3.000	0.343	21.51*	26.89	---	26.89
US25002500-375	**2.500**	2.500	3.000	0.375	3.000	0.406	21.51	26.89	26.89	26.89
US25002625	**2.625**	2.625	3.125	0.250	3.125	0.281	---	29.85*	---	---
US25002625-375	**2.625**	2.625	3.125	0.375	3.125	0.406	---	27.34	27.34	---
US25002750	**2.750**	2.750	3.250	0.250	3.250	0.281	24.49*	30.62	---	30.62*
US25002750-375	**2.750**	2.750	3.250	0.375	3.250	0.406	21.96*	27.45	---	27.45*
US25002875-375	**2.875**	2.875	3.375	0.375	3.375	0.406	---	27.59*	---	---
US25003000	**3.000**	3.000	3.500	0.250	3.500	0.281	---	28.93	---	---
US25003000-375	**3.000**	3.000	3.500	0.375	3.500	0.406	23.21*	29.01	---	29.01*
US25003250-375	**3.250**	3.250	3.750	0.375	3.750	0.406	23.55*	29.44	---	29.44*
US25003375-375	**3.375**	3.375	3.875	0.375	3.875	0.406	---	29.44*	---	---
US25003500	**3.500**	3.500	4.000	0.250	4.000	0.281	---	31.33	---	---
US25003500-312	**3.500**	3.500	4.000	0.312	4.000	0.343	---	39.80	---	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/4" - Cross Section - 0.250"										
US25003500-375	**3.500**	3.500	4.000	0.375	4.000	0.406	25.07*	31.33	---	31.33*
US25003500-500	**3.500**	3.500	4.000	0.500	4.000	0.531	---	---	---	---
US25003625-375	**3.625**	3.625	4.125	0.375	4.125	0.406	---	32.39*	---	---
US25003750-375	**3.750**	3.750	4.250	0.375	4.250	0.406	26.41*	33.01	---	33.01*
US25004000-312	**4.000**	4.000	4.500	0.312	4.500	0.343	---	40.72*	---	---
US25004000-375	**4.000**	4.000	4.500	0.375	4.500	0.406	35.04*	43.79	---	43.79*
US25004000-500	**4.000**	4.000	4.500	0.500	4.500	0.531	---	42.11*	---	---
US25004000-511	**4.000**	4.000	4.500	0.511	4.500	0.542	---	---	27.20*	---
US25004000-562	**4.000**	4.000	4.500	0.562	4.500	0.593	---	52.72	---	---
US25004125-562	**4.125**	4.125	4.625	0.562	4.625	0.593	---	38.10	---	---
US25004250-375	**4.250**	4.250	4.750	0.375	4.750	0.406	---	39.41*	---	---
US25004250-562	**4.250**	4.250	4.750	0.562	4.750	0.593	38.34*	47.93*	---	47.93*
US25004500-375	**4.500**	4.500	5.000	0.375	5.000	0.406	34.18*	42.73	---	42.73
US25004500-500	**4.500**	4.500	5.000	0.500	5.000	0.531	---	42.73	---	---
US25004500-562	**4.500**	4.500	5.000	0.562	5.000	0.593	34.18*	42.73*	---	42.73*
US25004750-375	**4.750**	4.750	5.250	0.375	5.250	0.406	---	44.98*	---	---
US25004750-562	**4.750**	4.750	5.250	0.562	5.250	0.593	---	44.98*	---	---
US25005000-375	**5.000**	5.000	5.500	0.375	5.500	0.406	40.87*	---	---	45.26*
US25005250-562	**5.250**	5.250	5.750	0.562	5.750	0.593	---	51.73*	---	---
US25005375-375	**5.375**	5.375	5.875	0.375	5.875	0.406	---	---	---	---
US25005500-375	**5.500**	5.500	6.000	0.375	6.000	0.406	45.88*	---	---	50.74
US25005625-375	**5.625**	5.625	6.125	0.375	6.125	0.406	---	59.71*	---	---
US25005750-562	**5.750**	5.750	6.250	0.562	6.250	0.593	46.97*	---	---	60.84
US25005750-625	**5.750**	5.750	6.250	0.625	6.250	0.656	---	72.87*	---	---
US25005875-562	**5.875**	5.875	6.375	0.562	6.375	0.593	---	74.41*	---	---
US25006000-375	**6.000**	6.000	6.500	0.375	6.500	0.406	---	79.25	---	---
US25006000-562	**6.000**	6.000	6.500	0.562	6.500	0.593	63.40*	79.25*	---	79.25*
US25006250-500	**6.250**	6.250	6.750	0.500	6.750	0.531	---	82.20	---	---
US25006250-562	**6.250**	6.250	6.750	0.562	6.750	0.593	---	78.38*	---	---
US25006500-375	**6.500**	6.500	7.000	0.375	7.000	0.406	---	140.08	---	---
US25006500-500	**6.500**	6.500	7.000	0.500	7.000	0.531	---	86.43	---	---
US25006500-562	**6.500**	6.500	7.000	0.562	7.000	0.593	65.29*	81.61*	---	81.61*
US25006750-375	**6.750**	6.750	7.250	0.375	7.250	0.406	---	---	---	---
US25006750-562	**6.750**	6.750	7.250	0.562	7.250	0.593	---	113.71	---	---
US25007000-562	**7.000**	7.000	7.500	0.562	7.500	0.593	---	92.72*	---	---
US25007250-562	**7.250**	7.250	7.750	0.562	7.750	0.593	---	95.38*	---	---
US25007500	**7.500**	7.500	8.000	0.250	8.000	0.281	65.29*	---	---	97.36*
US25007500-562	**7.500**	7.500	8.000	0.562	8.000	0.593	77.89*	97.36*	---	97.36*
US25007750-562	**7.750**	7.750	8.250	0.562	8.250	0.593	---	98.75*	---	---
US25008000-562	**8.000**	8.000	8.500	0.562	8.500	0.593	---	126.52*	---	---
US25008500-375	**8.500**	8.500	9.000	0.375	9.000	0.406	---	103.03*	---	---
US25008500-562	**8.500**	8.500	9.000	0.562	9.000	0.593	---	109.32*	---	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
5/16"- Cross Section - 0.312"										
US31201250	**1.250**	1.250	1.875	0.312	1.875	0.343	---	17.62*	---	---
US31201250-375	**1.250**	1.250	1.875	0.375	1.875	0.406	12.90*	16.12	---	16.12*
US31201250-500	**1.250**	1.250	1.875	0.500	1.875	0.531	---	---	---	---
US31201375	**1.375**	1.375	2.000	0.312	2.000	0.343	14.48*	18.10*	---	18.10
US31201375-266	**1.375**	1.375	2.000	0.266	2.000	0.297	---	---	12.60*	---
US31201375-375	**1.375**	1.375	2.000	0.375	2.000	0.406	---	18.10*	---	---
US31201437-500	**1.438**	1.438	2.063	0.500	2.063	0.531	---	33.68*	---	---
US31201500	**1.500**	1.500	2.125	0.312	2.125	0.343	14.48*	---	---	19.56*
US31201500-300	**1.500**	1.500	2.125	0.300	2.125	0.331	---	---	11.45*	---
US31201500-375	**1.500**	1.500	2.125	0.375	2.125	0.406	---	18.75*	---	---
US31201500-437	**1.500**	1.500	2.125	0.437	2.125	0.468	---	21.74*	---	---
US31201500-500	**1.500**	1.500	2.125	0.500	2.125	0.531	---	22.52*	---	---
US31201625	**1.625**	1.625	2.250	0.312	2.250	0.343	---	21.44*	---	---
US31201625-375	**1.625**	1.625	2.250	0.375	2.250	0.406	---	20.37	---	---
US31201750	**1.750**	1.750	2.375	0.312	2.375	0.343	18.01*	22.52	---	22.52*
US31201750-266	**1.750**	1.750	2.375	0.266	2.375	0.297	---	---	13.53*	---
US31201750-375	**1.750**	1.750	2.375	0.375	2.375	0.406	---	21.25*	---	---
US31201750-437	**1.750**	1.750	2.375	0.437	2.375	0.468	---	23.13*	---	---
US31201750-500	**1.750**	1.750	2.375	0.500	2.375	0.531	---	21.25	---	---
US31201750-562	**1.750**	1.750	2.375	0.562	2.375	0.593	---	---	13.53*	---
US31201875	**1.875**	1.875	2.500	0.312	2.500	0.343	19.23*	24.04	---	24.04*
US31201875-375	**1.875**	1.875	2.500	0.375	2.500	0.406	---	22.26	---	---
US31201875-437	**1.875**	1.875	2.500	0.437	2.500	0.468	---	25.57*	---	---
US31201875-500	**1.875**	1.875	2.500	0.500	2.500	0.531	17.81*	22.26*	---	22.26*
US31202000	**2.000**	2.000	2.625	0.312	2.625	0.343	---	22.68*	---	---
US31202000-375	**2.000**	2.000	2.625	0.375	2.625	0.406	18.14*	22.68*	---	22.68*
US31202000-500	**2.000**	2.000	2.625	0.500	2.625	0.531	---	27.70*	27.70*	---
US31202000-562	**2.000**	2.000	2.625	0.562	2.625	0.593	---	---	27.70	---
US31202125	**2.125**	2.125	2.750	0.312	2.750	0.343	---	28.93*	---	---
US31202125-375	**2.125**	2.125	2.750	0.375	2.750	0.406	---	23.33*	---	---
US31202125-500	**2.125**	2.125	2.750	0.500	2.750	0.531	---	31.98*	---	---
US31202250	**2.250**	2.250	2.875	0.312	2.875	0.343	---	29.85*	---	---
US31202250-375	**2.250**	2.250	2.875	0.375	2.875	0.406	---	23.67	---	---
US31202250-500	**2.250**	2.250	2.875	0.500	2.875	0.531	18.93*	23.67*	---	23.67*
US31202375	**2.375**	2.375	3.000	0.312	3.000	0.343	---	30.31	30.31	---
US31202375-375	**2.375**	2.375	3.000	0.375	3.000	0.406	---	24.23	---	---
US31202375-437	**2.375**	2.375	3.000	0.437	3.000	0.468	---	30.92*	---	---
US31202375-500	**2.375**	2.375	3.000	0.500	3.000	0.531	---	24.23*	---	---
US31202500	**2.500**	2.500	3.125	0.312	3.125	0.343	---	31.54*	31.54	---
US31202500-375	**2.500**	2.500	3.125	0.375	3.125	0.406	19.70*	24.62	---	24.62*
US31202500-500	**2.500**	2.500	3.125	0.500	3.125	0.531	---	24.62	---	---
US31202625-375	**2.625**	2.625	3.250	0.375	3.250	0.406	---	25.41	---	---
US31202625-500	**2.625**	2.625	3.250	0.500	3.250	0.531	20.33*	25.41*	---	25.41
US31202750-375	**2.750**	2.750	3.375	0.375	3.375	0.406	---	34.75*	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
5/16"- Cross Section - 0.312"										
US31202750-562	**2.750**	2.750	3.375	0.562	3.375	0.593	---	---	22.68*	---
US31202875-325	**2.875**	2.875	3.500	0.325	3.500	0.356	---	---	22.71*	---
US31202875-375	**2.875**	2.875	3.500	0.375	3.500	0.406	---	25.53	---	---
US31202875-500	**2.875**	2.875	3.500	0.500	3.500	0.531	---	29.01*	---	---
US31203000	**3.000**	3.000	3.625	0.312	3.625	0.343	---	---	22.71*	---
US31203000-375	**3.000**	3.000	3.625	0.375	3.625	0.406	---	29.82*	---	---
US31203000-500	**3.000**	3.000	3.625	0.500	3.625	0.531	---	29.82	---	---
US31203000-562	**3.000**	3.000	3.625	0.562	3.625	0.593	---	---	24.35*	---
US31203125	**3.125**	3.125	3.750	0.312	3.750	0.343	---	39.96*	---	---
US31203125-375	**3.125**	3.125	3.750	0.375	3.750	0.406	---	31.23	---	---
US31203125-500	**3.125**	3.125	3.750	0.500	3.750	0.531	24.98*	31.23	---	31.23*
US31203375-375	**3.375**	3.375	4.000	0.375	4.000	0.406	---	---	---	---
US31203500-266	**3.500**	3.500	4.125	0.266	4.125	0.297	---	---	28.16*	---
US31203500-375	**3.500**	3.500	4.125	0.375	4.125	0.406	---	32.08*	---	---
US31203500-500	**3.500**	3.500	4.125	0.500	4.125	0.531	---	32.08*	---	---
US31203625-375	**3.625**	3.625	4.250	0.375	4.250	0.406	---	33.91*	---	---
US31203625-500	**3.625**	3.625	4.250	0.500	4.250	0.531	---	46.24*	---	---
US31203875-375	**3.875**	3.875	4.500	0.375	4.500	0.406	---	37.41*	---	---
US31203875-500	**3.875**	3.875	4.500	0.500	4.500	0.531	29.93*	37.41*	---	37.41*
US31204000-375	**4.000**	4.000	4.625	0.375	4.625	0.406	---	38.07	---	---
US31204000-562	**4.000**	4.000	4.625	0.562	4.625	0.593	---	50.83*	---	---
US31204125-500	**4.125**	4.125	4.750	0.500	4.750	0.531	---	40.86*	---	---
US31204125-562	**4.125**	4.125	4.750	0.562	4.750	0.593	---	52.07*	---	---
US31204375-375	**4.375**	4.375	5.000	0.375	5.000	0.406	38.20*	47.75*	---	47.75*
US31204375-500	**4.375**	4.375	5.000	0.500	5.000	0.531	---	47.75*	---	---
US31204375-562	**4.375**	4.375	5.000	0.562	5.000	0.593	38.20*	47.75*	---	47.75*
US31204500-375	**4.500**	4.500	5.125	0.375	5.125	0.406	---	51.27*	---	---
US31204500-625	**4.500**	4.500	5.125	0.625	5.125	0.656	---	51.27*	---	---
US31204750-375	**4.750**	4.750	5.375	0.375	5.375	0.406	---	51.27*	---	---
US31204750-500	**4.750**	4.750	5.375	0.500	5.375	0.531	---	51.27*	---	---
US31204750-625	**4.750**	4.750	5.375	0.625	5.375	0.656	---	63.84*	---	---
US31204875-375	**4.875**	4.875	5.500	0.375	5.500	0.406	---	51.77*	---	---
US31204875-500	**4.875**	4.875	5.500	0.500	5.500	0.531	---	51.77*	---	---
US31205125-625	**5.125**	5.125	5.750	0.625	5.750	0.656	---	68.45*	---	---
US31205250-375	**5.250**	5.250	5.875	0.375	5.875	0.406	---	54.63	---	---
US31205250-500	**5.250**	5.250	5.875	0.500	5.875	0.531	---	69.35*	---	---
US31205375-375	**5.375**	5.375	6.000	0.375	6.000	0.406	44.82*	56.03	---	56.03*
US31205375-500	**5.375**	5.375	6.000	0.500	6.000	0.531	---	56.03*	---	---
US31205375-596	**5.375**	5.375	6.000	0.596	6.000	0.627	49.92*	---	---	56.03*
US31205375-625	**5.375**	5.375	6.000	0.625	6.000	0.656	49.92*	62.40*	---	62.40*
US31205500-375	**5.500**	5.500	6.125	0.375	6.125	0.406	---	68.27*	---	---
US31205500-625	**5.500**	5.500	6.125	0.625	6.125	0.656	---	75.49*	---	---
US31205625-562	**5.625**	5.625	6.250	0.562	6.250	0.593	---	31.54*	---	---
US31205625-625	**5.625**	5.625	6.250	0.625	6.250	0.656	---	77.18*	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
5/16" - Cross Section - 0.312"										
US31205875-375	**5.875**	5.875	6.500	0.375	6.500	0.406	---	68.35*	---	---
US31205875-562	**5.875**	5.875	6.500	0.562	6.500	0.593	---	86.48*	---	---
US31207375	**7.375**	7.375	8.000	0.312	8.000	0.343	50.87*	---	---	75.84*
11/32" - Cross Section - 0.343"										
US34302000-500	**2.000**	2.000	2.688	0.500	2.688	0.531	---	35.67*	---	---
3/8" - Cross Section - 0.375"										
US37501250	**1.250**	1.250	2.000	0.375	2.000	0.406	---	16.89*	---	---
US37501250-200	**1.250**	1.250	2.000	0.200	2.000	0.231	---	18.70*	---	---
US37501250-437	**1.250**	1.250	2.000	0.437	2.000	0.468	---	16.89*	---	---
US37501250-500	**1.250**	1.250	2.000	0.500	2.000	0.531	---	16.89	---	---
US37501500	**1.500**	1.500	2.250	0.375	2.250	0.406	---	20.37*	---	---
US37501500-500	**1.500**	1.500	2.250	0.500	2.250	0.531	---	26.93	---	---
US37501625	**1.625**	1.625	2.375	0.375	2.375	0.406	---	21.25*	---	---
US37501625-500	**1.625**	1.625	2.375	0.500	2.375	0.531	---	21.25*	---	---
US37501625-625	**1.625**	1.625	2.375	0.625	2.375	0.656	---	31.54*	---	---
US37501750	**1.750**	1.750	2.500	0.375	2.500	0.406	---	22.26*	---	---
US37501750-500	**1.750**	1.750	2.500	0.500	2.500	0.531	---	32.16*	---	---
US37501750-593	**1.750**	1.750	2.500	0.593	2.500	0.624	---	32.93*	---	---
US37501750-625	**1.750**	1.750	2.500	0.625	2.500	0.656	---	22.26*	---	---
US37502000	**2.000**	2.000	2.750	0.375	2.750	0.406	---	27.55	---	---
US37502000-500	**2.000**	2.000	2.750	0.500	2.750	0.531	---	27.55*	---	---
US37502000-625	**2.000**	2.000	2.750	0.625	2.750	0.656	---	37.52*	---	---
US37502250	**2.250**	2.250	3.000	0.375	3.000	0.406	---	28.92*	---	---
US37502250-437	**2.250**	2.250	3.000	0.437	3.000	0.468	---	38.73*	---	---
US37502250-500	**2.250**	2.250	3.000	0.500	3.000	0.531	---	28.92	---	---
US37502250-625	**2.250**	2.250	3.000	0.625	3.000	0.656	23.13*	28.92*	---	28.92*
US37502500	**2.500**	2.500	3.250	0.375	3.250	0.406	---	29.35*	---	---
US37502500-500	**2.500**	2.500	3.250	0.500	3.250	0.531	---	29.35	---	---
US37502500-625	**2.500**	2.500	3.250	0.625	3.250	0.656	---	29.35	---	---
US37502625	**2.625**	2.625	3.375	0.375	3.375	0.406	---	30.63*	---	---
US37502625-500	**2.625**	2.625	3.375	0.500	3.375	0.531	---	39.51*	---	---
US37502625-625	**2.625**	2.625	3.375	0.625	3.375	0.656	---	30.63*	---	---
US37502750	**2.750**	2.750	3.500	0.375	3.500	0.406	25.20*	31.50*	---	31.50
US37502750-440	**2.750**	2.750	3.500	0.440	3.500	0.471	---	46.39*	---	---
US37502750-500	**2.750**	2.750	3.500	0.500	3.500	0.531	---	31.50*	---	---
US37502750-625	**2.750**	2.750	3.500	0.625	3.500	0.656	25.20*	31.50*	---	31.50*
US37503000	**3.000**	3.000	3.750	0.375	3.750	0.406	---	32.63	---	---
US37503000-500	**3.000**	3.000	3.750	0.500	3.750	0.531	---	32.45*	---	---
US37503000-625	**3.000**	3.000	3.750	0.625	3.750	0.656	---	35.17*	---	---
US37503250	**3.250**	3.250	4.000	0.375	4.000	0.406	27.53*	34.41	---	34.41
US37503250-369	**3.250**	3.250	4.000	0.369	4.000	0.400	---	---	28.16*	---
US37503250-437	**3.250**	3.250	4.000	0.437	4.000	0.468	27.53*	---	---	34.41*

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/8" - Cross Section - 0.375"										
US37503250-500	**3.250**	3.250	4.000	0.500	4.000	0.531	---	34.41	---	---
US37503250-625	**3.250**	3.250	4.000	0.625	4.000	0.656	27.53*	34.41*	---	34.41
US37503500	**3.500**	3.500	4.250	0.375	4.250	0.406	---	35.79	---	---
US37503500-437	**3.500**	3.500	4.250	0.437	4.250	0.468	---	56.81*	---	---
US37503500-500	**3.500**	3.500	4.250	0.500	4.250	0.531	---	34.41	---	---
US37503500-625	**3.500**	3.500	4.250	0.625	4.250	0.656	---	83.13*	---	---
US37503750	**3.750**	3.750	4.500	0.375	4.500	0.406	31.90*	39.88*	39.88	39.88*
US37503750-500	**3.750**	3.750	4.500	0.500	4.500	0.531	---	39.88	---	---
US37503750-625	**3.750**	3.750	4.500	0.625	4.500	0.656	---	39.88	---	---
US37503875	**3.875**	3.875	4.625	0.375	4.625	0.406	---	61.53*	---	---
US37504000	**4.000**	4.000	4.750	0.375	4.750	0.406	---	43.24*	43.24*	---
US37504000-437	**4.000**	4.000	4.750	0.437	4.750	0.468	---	65.07*	---	---
US37504000-500	**4.000**	4.000	4.750	0.500	4.750	0.531	34.59*	43.24*	---	43.24
US37504000-536	**4.000**	4.000	4.750	0.536	4.750	0.567	---	---	43.24*	---
US37504000-625	**4.000**	4.000	4.750	0.625	4.750	0.656	34.59*	43.24*	---	43.24*
US37504125-500	**4.125**	4.125	4.875	0.500	4.875	0.531	---	69.97*	---	---
US37504125-625	**4.125**	4.125	4.875	0.625	4.875	0.656	---	43.97*	---	---
US37504250	**4.250**	4.250	5.000	0.375	5.000	0.406	35.18*	43.97	43.97	43.97*
US37504250-500	**4.250**	4.250	5.000	0.500	5.000	0.531	35.18*	43.97	---	43.97*
US37504250-625	**4.250**	4.250	5.000	0.625	5.000	0.656	46.23*	57.79	---	57.79*
US37504500-500	**4.500**	4.500	5.250	0.500	5.250	0.531	64.77*	80.96*	---	80.96*
US37504500-625	**4.500**	4.500	5.250	0.625	5.250	0.656	---	45.37	---	---
US37504625-500	**4.625**	4.625	5.375	0.500	5.375	0.531	---	47.07*	---	---
US37504750-360	**4.750**	4.750	5.500	0.360	5.500	0.391	---	---	43.97*	---
US37504750-500	**4.750**	4.750	5.500	0.500	5.500	0.531	---	48.49*	---	---
US37504750-625	**4.750**	4.750	5.500	0.625	5.500	0.656	38.79*	48.49	---	48.49*
US37504875-500	**4.875**	4.875	5.625	0.500	5.625	0.531	---	53.20*	---	---
US37504875-625	**4.875**	4.875	5.625	0.625	5.625	0.656	---	82.07*	---	---
US37505000-482	**5.000**	5.000	5.750	0.482	5.750	0.513	---	---	45.68*	---
US37505000-500	**5.000**	5.000	5.750	0.500	5.750	0.531	44.82*	---	---	54.29*
US37505250	**5.250**	5.250	6.000	0.375	6.000	0.406	44.82*	56.03*	---	56.03*
US37505250-500	**5.250**	5.250	6.000	0.500	6.000	0.531	---	56.03*	---	---
US37505250-625	**5.250**	5.250	6.000	0.625	6.000	0.656	---	56.03	---	---
US37505375	**5.375**	5.375	6.125	0.375	6.125	0.406	---	88.18*	---	---
US37505375-500	**5.375**	5.375	6.125	0.500	6.125	0.531	---	36.05*	---	---
US37505375-625	**5.375**	5.375	6.125	0.625	6.125	0.656	---	143.59*	---	---
US37505500	**5.500**	5.500	6.250	0.375	6.250	0.406	---	61.51*	61.51*	---
US37505500-500	**5.500**	5.500	6.250	0.500	6.250	0.531	---	61.51*	---	---
US37505625-625	**5.625**	5.625	6.375	0.625	6.375	0.656	---	64.30	---	---
US37505750	**5.750**	5.750	6.500	0.375	6.500	0.406	---	---	60.51*	---
US37505750-500	**5.750**	5.750	6.500	0.500	6.500	0.531	73.56*	91.95	---	91.95*
US37505750-625	**5.750**	5.750	6.500	0.625	6.500	0.656	---	80.66*	---	---
US37506250	**6.250**	6.250	7.000	0.375	7.000	0.406	67.07*	83.84*	---	83.84*
US37506250-500	**6.250**	6.250	7.000	0.500	7.000	0.531	---	83.84	---	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/8" - Cross Section - 0.375"										
US37506250-625	**6.250**	6.250	7.000	0.625	7.000	0.656	67.07*	83.84*	---	83.84
US37506375-625	**6.375**	6.375	7.125	0.625	7.125	0.656	---	102.75*	---	---
US37506500-500	**6.500**	6.500	7.250	0.500	7.250	0.531	---	92.31*	---	---
US37506500-625	**6.500**	6.500	7.250	0.625	7.250	0.656	---	92.33	---	---
US37506750-500	**6.750**	6.750	7.500	0.500	7.500	0.531	82.05*	102.56*	---	---
US37507000	**7.000**	7.000	7.750	0.375	7.750	0.406	---	110.32	---	---
US37507000-500	**7.000**	7.000	7.750	0.500	7.750	0.531	---	98.48	---	---
US37507000-625	**7.000**	7.000	7.750	0.625	7.750	0.656	---	103.48*	---	---
US37507250-500	**7.250**	7.250	8.000	0.500	8.000	0.531	---	106.97*	---	---
US37507250-625	**7.250**	7.250	8.000	0.625	8.000	0.656	92.23*	115.29*	---	115.29*
US37507500-500	**7.500**	7.500	8.250	0.500	8.250	0.531	92.97*	116.21*	---	116.21*
US37507500-625	**7.500**	7.500	8.250	0.625	8.250	0.656	---	117.27*	---	---
US37507750-500	**7.750**	7.750	8.500	0.500	8.500	0.531	---	111.79*	---	---
US37507750-625	**7.750**	7.750	8.500	0.625	8.500	0.656	---	120.64*	---	---
US37508000-500	**8.000**	8.000	8.750	0.500	8.750	0.531	---	124.15	---	---
US37508250-500	**8.250**	8.250	9.000	0.500	9.000	0.531	---	153.98*	---	---
US37509000-625	**9.000**	9.000	9.750	0.625	9.750	0.656	---	156.63*	---	---
US37509750-500	**9.750**	9.750	10.500	0.500	10.500	0.531	---	188.61*	---	---
US37514250-500	**14.250**	14.250	15.000	0.500	15.000	0.531	---	348.61*	---	---
US37514250-625	**14.250**	14.250	15.000	0.625	15.000	0.656	---	351.82*	---	---
1/2" - Cross Section - 0.500"										
US50001875-625	**1.875**	1.875	2.875	0.625	2.875	0.656	---	39.15	---	---
US50002500-687	**2.500**	2.500	3.500	0.687	3.500	0.718	---	52.06*	---	---
US50003000	**3.000**	3.000	4.000	0.500	4.000	0.531	---	59.58*	---	---
US50003000-656	**3.000**	3.000	4.000	0.656	4.000	0.687	---	---	---	---
US50003000-700	**3.000**	3.000	4.000	0.700	4.000	0.731	---	---	---	---
US50003500	**3.500**	3.500	4.500	0.500	4.500	0.531	---	79.31*	---	---
US50003500-625	**3.500**	3.500	4.500	0.625	4.500	0.656	---	52.22*	---	---
US50003500-656	**3.500**	3.500	4.500	0.656	4.500	0.687	---	84.20*	---	---
US50004000-625	**4.000**	4.000	5.000	0.625	5.000	0.656	63.66*	---	---	70.74*
US50004000-750	**4.000**	4.000	5.000	0.750	5.000	0.781	---	89.87*	---	---
US50004500	**4.500**	4.500	5.500	0.500	5.500	0.531	---	92.18	---	---
US50005000-750	**5.000**	5.000	6.000	0.750	6.000	0.781	78.98*	---	41.93*	---
US50006000-625	**6.000**	6.000	7.000	0.625	7.000	0.656	---	85.64*	---	---
US50006000-750	**6.000**	6.000	7.000	0.750	7.000	0.781	---	101.95*	---	---
US50006500	**6.500**	6.500	7.500	0.500	7.500	0.531	---	123.85*	---	---
US50006500-750	**6.500**	6.500	7.500	0.750	7.500	0.781	---	105.98*	---	---
US50007000	**7.000**	7.000	8.000	0.500	8.000	0.531	---	---	83.19	---
US50007000-625	**7.000**	7.000	8.000	0.625	8.000	0.656	---	111.86*	---	---
US50007000-750	**7.000**	7.000	8.000	0.750	8.000	0.781	93.34*	---	---	103.72
US50007500-750	**7.500**	7.500	8.500	0.750	8.500	0.781	---	138.94*	---	---
US50007750-750	**7.750**	7.750	8.750	0.750	8.750	0.781	---	131.63*	---	---
US50008000-625	**8.000**	8.000	9.000	0.625	9.000	0.656	---	136.36*	---	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			$		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/2" - Cross Section - 0.500"										
US50008000-750	**8.000**	8.000	9.000	0.750	9.000	0.781	---	153.66*	---	---
US50008500-593	**8.500**	8.500	9.500	0.593	9.500	0.624	---	166.28*	---	---
US50008500-750	**8.500**	8.500	9.500	0.750	9.500	0.781	---	166.28*	---	---
US50009000-625	**9.000**	9.000	10.000	0.625	10.000	0.656	---	180.16	---	---
US50009000-750	**9.000**	9.000	10.000	0.750	10.000	0.781	---	180.16*	---	---
US50010000-593	**10.000**	10.000	11.000	0.593	11.000	0.624	---	194.28*	---	---
US50010000-625	**10.000**	10.000	11.000	0.625	11.000	0.656	---	79.43*	---	---
US50010000-750	**10.000**	10.000	11.000	0.750	11.000	0.781	---	189.93*	---	---
US50011000-593	**11.000**	11.000	12.000	0.593	12.000	0.624	---	372.98*	---	---
US50011000-750	**11.000**	11.000	12.000	0.750	12.000	0.781	---	267.29	---	---
US50012000-750	**12.000**	12.000	13.000	0.750	13.000	0.781	---	329.10*	---	---
US50015000-562	**15.000**	15.000	16.000	0.562	16.000	0.593	---	482.48*	---	---
US50015000-625	**15.000**	15.000	16.000	0.625	16.000	0.656	---	489.59*	---	---
US50015000-750	**15.000**	15.000	16.000	0.750	16.000	0.781	---	504.78*	---	---
US50017000-750	**17.000**	17.000	18.000	0.750	18.000	0.781	---	514.81*	---	---
5/8" - Cross Section - 0.625"										
US62503750	**3.750**	3.750	5.000	0.625	5.000	0.656	---	66.56	---	---
US62504250-750	**4.250**	4.250	5.500	0.750	5.500	0.781	76.78*	---	---	85.32*
US62505250-750	**5.250**	5.250	6.500	0.750	6.500	0.781	94.86*	---	---	105.38*
3/4" Cross Section - 0.750"										
US75012500-1000	**12.500**	12.500	14.000	1.000	14.000	1.031	---	304.99*	---	---

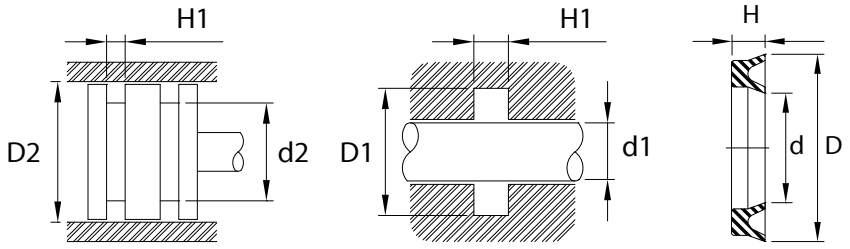
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



AN6226 - Rod/Piston Seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile	-40°F to +250°F (-40°C to +121°C)	≤1250 psi (≤86 bar)	<1.6 ft/s (0.5 m/s)



AN6226 Style u-cup has a square format where the nominal cross section is equal to the height. Although widely used in the fluid power industry for low friction pneumatics. this profile was originally designed for early aircraft and ordnance service. Many units still use this type u-cup. The **AN6226** profile is available in the most popular sizes per Army/Navy (AN) specifications and is made of a standard 70 Shore A nitrile compound.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department.

Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
AN6226-41	**0.125**	0.375	0.125	0.125	+.000 -.001	+.000/-.001	0.375	+.002 -.000	+.003 -.000	0.156	+.010 -.010	2.67
AN6226-01*	**0.125**	0.500	0.187	0.125		+.000/-.002	0.500			0.218		2.67
AN6226-42	**0.187**	0.437	0.125	0.187		+.000/-.001	0.437			0.156		2.67
AN6226-02*	**0.187**	0.562	0.187	0.187		+.000/-.002	0.562			0.218		2.67
AN6226-43	**0.250**	0.500	0.125	0.250		+.000/-.001	0.500			0.156		2.67
AN6226-03*	**0.250**	0.625	0.187	0.250		+.000/-.002	0.625			0.218		2.78
AN6226-08	**0.250**	0.750	0.250	0.250	+.000/-.002	+.000/-.003	0.750	+.003/-.000		0.281		3.39
AN6226-44*	**0.312**	0.562	0.125	0.312	+.000 -.001	+.000/-.001	0.562	+.002 -.000		0.156		2.67
AN6226-04*	**0.312**	0.687	0.187	0.312		+.000/-.002	0.687			0.218		2.78
AN6226-09*	**0.312**	0.812	0.250	0.312	+.000/-.002	+.000/-.003	0.812	+.003/-.000		0.281		3.39
AN6226-45	**0.375**	0.625	0.125	0.375	+.000 -.001	+.000/-.001	0.625	+.002 -.000		0.156		2.78
AN6226-05	**0.375**	0.750	0.187	0.375		+.000/-.002	0.750			0.218		2.78
AN6226-10	**0.375**	0.875	0.250	0.375	+.000/-.002	+.000/-.003	0.875	+.003/-.000		0.281		3.39
AN6226-46	**0.437**	0.687	0.125	0.437	+.000 -.001	+.000/-.001	0.687	+.002 -.000		0.156		2.91
AN6226-06	**0.437**	0.812	0.187	0.437		+.000/-.002	0.812			0.218		3.10
AN6226-11*	**0.437**	0.937	0.250	0.437	+.000/-.002	+.000/-.003	0.937	+.003/-.000		0.281		3.39
AN6226-47	**0.500**	0.750	0.125	0.500	+.000 -.001	+.000/-.001	0.750	+.002 -.000		0.156		2.91
AN6226-07	**0.500**	0.875	0.187	0.500		+.000 -.003	0.875			0.218		3.21
AN6226-07/V*	**0.500**	0.875	0.187	0.500			0.875			0.218		7.84
AN6226-12	**0.500**	1.000	0.250	0.500	+.000 -.002	+.000 -.003	1.000	+.002 -.000		0.281		3.59
AN6226-13	**0.562**	1.062	0.250	0.562			1.062			0.281		3.59

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
AN6226-48*	**0.625**	1.000	0.187	0.625	+.000 -.002	+.000 -.002	1.000	+.002 -.000	+.003 -.000	0.218	+.010 -.010	3.59
AN6226-48/NX*	**0.625**	1.000	0.187	0.625			1.000			0.218		36.16
AN6226-48/V	**0.625**	1.000	0.187	0.625			1.000			0.218		7.85
AN6226-14	**0.625**	1.125	0.250	0.625		+.000 -.003	1.125	+.003 -.000		0.281		3.59
AN6226-15*	**0.687**	1.187	0.250	0.687			1.187			0.281		3.59
AN6226-49	**0.750**	1.125	0.187	0.750		+.000/-.002	1.125	+.002/-.000		0.218		3.59
AN6226-16*	**0.750**	1.250	0.250	0.750		+.000 -.003	1.250	+.003 -.000		0.281		3.87
AN6226-16/V*	**0.750**	1.250	0.250	0.750			1.250			0.281		22.77
AN6226-17*	**0.812**	1.312	0.250	0.812			1.312			0.281		3.87
AN6226-50	**0.875**	1.250	0.187	0.875		+.000/-.002	1.250	+.002/-.000		0.218		3.87
AN6226-18	**0.875**	1.375	0.250	0.875		+.000 -.003	1.375	+.003 -.000		0.281		3.87
AN6226-19*	**0.937**	1.437	0.250	0.937			1.437			0.281		3.87
AN6226-51	**1.000**	1.375	0.187	1.000		+.000 -.001	1.375	+.002 -.000	+.004 -.000	0.218		3.87
AN6226-51/TFE*	**1.000**	1.375	0.187	1.000			1.375			0.218		11.10
AN6226-20	**1.000**	1.500	0.250	1.000		+.000 -.003	1.500	+.003 -.000	+.003 -.000	0.281		4.05
AN6226-20/V	**1.000**	1.500	0.250	1.000			1.500			0.281		26.61
AN6226-21*	**1.062**	1.562	0.250	1.062			1.562			0.281		4.15
AN6226-52	**1.125**	1.500	0.187	1.125		+.000/-.001	1.500	+.002/-.000	+.004/-.000	0.218		3.95
AN6226-22*	**1.125**	1.625	0.250	1.125		+.000 -.003	1.625	+.003 -.000	+.003 -.000	0.281		4.15
AN6226-23	**1.187**	1.687	0.250	1.187			1.687			0.281		4.15
AN6226-53	**1.250**	1.625	0.187	1.250		+.000/-.001	1.625	+.002/-.000	+.004/-.000	0.218		3.95
AN6226-24	**1.250**	1.750	0.250	1.250		+.000/-.003	1.750	+.003/-.000	+.003 -.000	0.281		4.15
AN6226-25*	**1.250**	1.875	0.312	1.250	+.000/-.002	+.000 -.004	1.875	+.004 -.000		0.343		4.47
AN6226-26	**1.375**	2.000	0.312	1.375	+.000 -.002		2.000			0.343		4.76
AN6226-27*	**1.500**	2.125	0.312	1.500			2.125			0.343		4.90
AN6226-28*	**1.625**	2.250	0.312	1.625			2.250			0.343		4.98
AN6226-29	**1.750**	2.375	0.312	1.750			2.375			0.343		5.06
AN6226-30	**1.875**	2.500	0.312	1.875			2.500			0.343		5.20
AN6226-31*	**2.000**	2.625	0.312	2.000			2.625			0.343		5.34
AN6226-32	**2.125**	2.750	0.312	2.125			2.750			0.343		5.62
AN6226-33	**2.250**	2.875	0.312	2.250			2.875			0.343		5.73
AN6226-34	**2.375**	3.000	0.312	2.375			3.000			0.343		6.04
AN6226-34/V	**2.375**	3.000	0.312	2.375			3.000			0.343		41.88
AN6226-35	**2.500**	3.125	0.312	2.500			3.125			0.343		6.39
AN6226-36	**2.500**	3.250	0.375	2.500			3.250	+.005 -.000	+.004 -.000	0.406		6.62
AN6226-37	**2.625**	3.375	0.375	2.625		+.000 -.005	3.375			0.406		6.92
AN6226-38	**2.750**	3.500	0.375	2.750			3.500			0.406		13.96
AN6226-39	**2.875**	3.625	0.375	2.875			3.625			0.406		7.22
AN6226-40	**3.000**	3.750	0.375	3.000			3.750			0.406		9.26
AN6226-60	**3.250**	4.000	0.375	3.250	+.000 -.003		4.000			0.406		14.49
AN6226-63*	**3.750**	4.500	0.375	3.750			4.500			0.406		13.56
AN6226-65	**4.250**	5.000	0.375	4.250	+.000 -.005		5.000			0.406		17.20
AN6226-70	**5.125**	6.000	0.437	5.125			6.000			0.468		48.58
AN6226-75	**6.125**	7.000	0.437	6.125			7.000			0.468		72.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN6226 series - NBR 80A

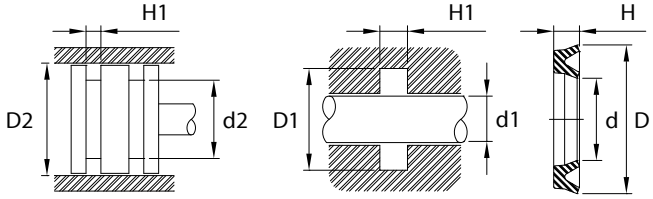
Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
AN6226-80	**7.000**	8.000	0.500	7.000	+.000 -.005	+.000 -.007	8.000	+.007 -.000	+.005 -.000	0.531	+.010 -.010	39.73
AN6226-81*	**7.500**	8.250	0.375	7.500			8.250			0.406		O/R
AN6226-82*	**8.000**	9.000	0.500	8.000			9.000			0.531		50.98
AN6226-85	**9.000**	10.000	0.500	9.000			10.000			0.531		58.46
AN6226-90*	**11.000**	12.000	0.500	11.000			12.000			0.531		63.69
AN6226-95*	**13.000**	14.000	0.500	13.000			14.000			0.531		81.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range	Pressure Range		Surface Speed	
		Hydr.	Pneu.	Hydr.	Pneu.
Nitrile	-40°F to +250°F (-40°C to +121°C)	1250 psi (86 bar)	250 psi (17 bar)	<1.6 ft/s (0.5 m/s)	<3.3 ft/s (1 m/s)
		Hydr.	Pneu.	Hydr.	Pneu.
Fluorocarbon	-5°F to +400°F (-21°C to +204°C)	2000 psi (138 bar)	250 psi (17 bar)	<1.6 ft/s (0.5 m/s)	<3.3 ft/s (1 m/s)
Nitroxile	-10°F to +250°F (-23°C to +121°C)	1750 psi (120 bar)	250 psi (17 bar)	<1.6 ft/s (0.5 m/s)	<3.3 ft/s (1 m/s)
		Hydr.	Pneu.	Hydr.	Pneu.
EPDM	-65°F to +300°F (-54°C to +149°C)	1250 psi (86 bar)	250 psi (17 bar)	<1.6 ft/s (0.5 m/s)	<3.3 ft/s (1 m/s)



8400-style u-cups are symmetrical lip seals for use in either rod or piston sealing applications. The thin flexible lip design reacts to low pressure and provides an extremely smooth, steady movement with less break away force required because of the inherent low fonction. 8400 u-cups are produced from the same molds. This profile is primarily designed for pneumatic application, it can also be use in low pressure hydraulic applications.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department.

Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
1/16" - Cross Section - 0.062"												
840200125/N*	**0.125**	0.250	0.062	0.125	+.000 -.001	+.000 -.001	0.250	+.002 -.000	+.002 -.000	0.093	+.010 -.010	3.58
840200187/N*	**0.187**	0.312	0.062	0.187	↓	↓	0.312	↓	↓	0.093	↓	3.58
840200250/N	**0.250**	0.375	0.062	0.250	↓	↓	0.375	↓	↓	0.093	↓	3.58
3/32" - Cross Section - 0.093"												
840300125/N*	**0.125**	0.312	0.093	0.125	+.000 -.001	+.000 -.001	0.312	+.002 -.000	+.002 -.000	0.125	+.010 -.010	3.58
840300187/N*	**0.187**	0.375	0.093	0.187	↓	↓	0.375	↓	↓	0.125	↓	3.58
840300250/N*	**0.250**	0.437	0.093	0.250	↓	↓	0.437	↓	↓	0.125	↓	3.58
840300312/N	**0.312**	0.500	0.093	0.312	↓	↓	0.500	↓	↓	0.125	↓	3.58
840300375/N	**0.375**	0.562	0.093	0.375	↓	↓	0.562	↓	↓	0.125	↓	3.58
840300437/N*	**0.437**	0.625	0.093	0.437	↓	↓	0.625	↓	↓	0.125	↓	3.58
840300562/N	**0.562**	0.750	0.093	0.562	↓	↓	0.750	↓	↓	0.125	↓	3.58
840300625/N	**0.625**	0.812	0.093	0.625	↓	↓	0.812	↓	↓	0.125	↓	3.58
1/8" - Cross Section - 0.125"												
840400187/N	**0.187**	0.437	0.125	0.187	+.000 -.001	+.002 -.000	0.437	+.002 -.000	+.002 -.000	0.156	+.010 -.010	3.58
840400250/N	**0.250**	0.500	0.125	0.250	↓	↓	0.500	↓	↓	0.156	↓	3.58

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

8400 series - NBR 80A, FPM, NITROXILE, EPDM

Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
1/8" - Cross Section - 0.125"												
840400250/V	**0.250**	0.500	0.125	0.250	+.000 -.001	+.002 -.000	0.500	+.002 -.000	+.002 -.000	0.156	+.010 -.010	24.11
840400312/N	**0.312**	0.562	0.125	0.312			0.562			0.156		3.80
840400375/N	**0.375**	0.625	0.125	0.375			0.625			0.156		3.58
840400375/V*	**0.375**	0.625	0.125	0.375			0.625			0.156		26.46
840400437/N	**0.437**	0.687	0.125	0.437			0.687			0.156		3.58
840400437/V*	**0.437**	0.687	0.125	0.437			0.687			0.156		11.78
840400500/N	**0.500**	0.750	0.125	0.500			0.750			0.156		3.58
840400500/NX*	**0.500**	0.750	0.125	0.500			0.750			0.156		27.81
840400500/V	**0.500**	0.750	0.125	0.500			0.750			0.156		20.12
840400562/N*	**0.562**	0.812	0.125	0.562			0.812			0.156		3.58
840400625/E	**0.625**	0.875	0.125	0.625			0.875			0.156		6.15
840400625/N	**0.625**	0.875	0.125	0.625			0.875			0.156		3.58
840400625/NX*	**0.625**	0.875	0.125	0.625			0.875			0.156		32.49
840400625/V	**0.625**	0.875	0.125	0.625			0.875			0.156		16.35
840400687/N*	**0.687**	0.937	0.125	0.687			0.937			0.156		3.58
840400750/E*	**0.750**	1.000	0.125	0.750			1.000			0.156		7.54
840400750/N	**0.750**	1.000	0.125	0.750			1.000			0.156		3.58
840400750/NX*	**0.750**	1.000	0.125	0.750			1.000			0.156		35.79
840400750/V	**0.750**	1.000	0.125	0.750			1.000			0.156		22.53
840400812/N*	**0.812**	1.062	0.125	0.812			1.062			0.156		3.87
840400875/N	**0.875**	1.125	0.125	0.875			1.125			0.156		3.87
840400937/N	**0.937**	1.187	0.125	0.937			1.187			0.156		3.86
840401000/N	**1.000**	1.250	0.125	1.000			1.250			0.156		3.87
840401000/V	**1.000**	1.250	0.125	1.000			1.250			0.156		24.53
840401125/N*	**1.125**	1.375	0.125	1.125			1.375			0.156		4.04
840401250/N	**1.250**	1.500	0.125	1.250			1.500			0.156		4.54
840401375/N	**1.375**	1.625	0.125	1.375			1.625			0.156		4.04
840401500/N*	**1.500**	1.750	0.125	1.500			1.750			0.156		4.04
5/32" - Cross Section - 0.156"												
840500500/N*	**0.500**	0.812	0.156	0.500	+.000 -.001	+.002 -.000	0.812	+.002 -.000	+.002 -.000	0.187	+.010 -.010	4.04
840500687/N*	**0.687**	1.000	0.156	0.687			1.000			0.187		4.17
840500750/N*	**0.750**	1.062	0.156	0.750			1.062			0.187		4.17
840500937/N*	**0.937**	1.250	0.156	0.937			1.250			0.187		4.17
840501000/N	**1.000**	1.312	0.156	1.000			1.312			0.187		4.27
840501000/NX*	**1.000**	1.312	0.156	1.000			1.312			0.187		O/R
840501000/V	**1.000**	1.312	0.156	1.000			1.312			0.187		27.57
840501062/N*	**1.062**	1.375	0.156	1.062			1.375			0.187		4.33
840501125/N*	**1.125**	1.437	0.156	1.125			1.437			0.187		O/R
840501187/N	**1.187**	1.500	0.156	1.187			1.500			0.187		4.47
840501187/NX*	**1.187**	1.500	0.156	1.187			1.500			0.187		O/R
840501187/V	**1.187**	1.500	0.156	1.187			1.500			0.187		28.94

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

8400 series - NBR 80A, FPM, NITROXILE, EPDM

Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
5/32" - Cross Section - 0.156"												
840501250/N	**1.250**	1.562	0.156	1.250	+.000 -.001	+.002 -.000	1.562	+.002 -.000	+.002 -.000	0.187	+.010 -.010	4.76
840501250/V*	**1.250**	1.562	0.156	1.250			1.562			0.187		38.27
840501312/N	**1.312**	1.625	0.156	1.312			1.625			0.187		5.20
840501375/N	**1.375**	1.687	0.156	1.375			1.687			0.187		5.06
840501375/NX*	**1.375**	1.687	0.156	1.375			1.687			0.187		O/R
840501375/V	**1.375**	1.687	0.156	1.375			1.687			0.187		31.70
840501437/N*	**1.437**	1.750	0.156	1.437			1.750			0.187		5.06
840501500/N	**1.500**	1.812	0.156	1.500			1.812			0.187		5.19
3/16" - Cross Section - 0.187"												
840600250/N*	**0.250**	0.625	0.187	0.250	+.000 -.002	+.000 -.002	0.625	+.002 -.000	+.002 -.000	0.218	+.010 -.010	O/R
840600625/N*	**0.625**	1.000	0.187	0.625			1.000			0.218		4.14
840600750/N*	**0.750**	1.125	0.187	0.750			1.125			0.218		4.14
840600875/N*	**0.875**	1.250	0.187	0.875			1.250			0.218		O/R
840601000/N*	**1.000**	1.375	0.187	1.000			1.375			0.218		4.34
840601250/N*	**1.250**	1.625	0.187	1.250			1.625			0.218		4.34
840601375/N	**1.375**	1.750	0.187	1.375			1.750			0.218		4.80
840601375/NX*	**1.375**	1.750	0.187	1.375			1.750			0.218		32.06
840601375/V	**1.375**	1.750	0.187	1.375			1.750			0.218		43.04
840601500/N	**1.500**	1.875	0.187	1.500			1.875			0.218		4.80
840601625/N	**1.625**	2.000	0.187	1.625			2.000			0.218		5.06
840601625/NX*	**1.625**	2.000	0.187	1.625			2.000			0.218		O/R
840601625/V	**1.625**	2.000	0.187	1.625			2.000			0.218		36.95
840601750/N	**1.750**	2.125	0.187	1.750			2.125			0.218		5.06
840601750/NX*	**1.750**	2.125	0.187	1.750			2.125			0.218		O/R
840601750/V	**1.750**	2.125	0.187	1.750			2.125			0.218		35.32
840601875/N	**1.875**	2.250	0.187	1.875			2.250			0.218		5.06
840601875/V	**1.875**	2.250	0.187	1.875			2.250			0.218		37.34
840602000/N	**2.000**	2.375	0.187	2.000			2.375			0.218		5.44
840602000/NX*	**2.000**	2.375	0.187	2.000			2.375			0.218		O/R
840602000/V	**2.000**	2.375	0.187	2.000			2.375			0.218		36.18
840602125/N	**2.125**	2.500	0.187	2.125			2.500			0.218		5.44
840602125/NX*	**2.125**	2.500	0.187	2.125			2.500			0.218		O/R
840602125/V	**2.125**	2.500	0.187	2.125			2.500			0.218		36.18
840602250/N	**2.250**	2.625	0.187	2.250			2.625			0.218		7.05
840602375/N	**2.375**	2.750	0.187	2.375			2.750			0.218		5.44
840602500/N	**2.500**	2.875	0.187	2.500			2.875			0.218		7.70
840602500/V	**2.500**	2.875	0.187	2.500			2.875			0.218		41.66
840602625/N	**2.625**	3.000	0.187	2.625			3.000			0.218		6.80
840602750/N	**2.750**	3.125	0.187	2.750			3.125			0.218		13.48
840602875/N	**2.875**	3.250	0.187	2.875			3.250			0.218		7.22
840603000/N	**3.000**	3.375	0.187	3.000			3.375			0.218		17.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

8400 series - NBR 80A, FPM, NITROXILE, EPDM

Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
3/16" - Cross Section - 0.187"												
840603250/N*	**3.250**	3.625	0.187	3.250	+.000 -.002	+.000 -.002	3.625	+.002 -.000	+.002 -.000	0.218	+.010 -.010	12.52
840603375/N*	**3.375**	3.750	0.187	3.375			3.750			0.218		12.73
7/32" - Cross Section - 0.218"												
840701937/N*	**1.937**	2.375	0.218	1.937	+.000 -.002	+.000 -.002	2.375	+.002 -.000	+.002 -.000	0.250	+.010 -.010	7.45
840702500/N	**2.500**	2.937	0.218	2.500			2.937			0.250		7.50
840702500/NX*	**2.500**	2.937	0.218	2.500			2.937			0.250		12.30
840702500/V	**2.500**	2.937	0.218	2.500			2.937			0.250		39.80
840702562/N	**2.562**	3.000	0.218	2.562			3.000			0.250		7.87
840702687/N*	**2.687**	3.125	0.218	2.687			3.125			0.250		8.94
840702750/N*	**2.750**	3.187	0.218	2.750			3.187			0.250		8.68
840702812/N	**2.812**	3.250	0.218	2.812			3.250			0.250		9.11
840702812/NX*	**2.812**	3.250	0.218	2.812			3.250			0.250		O/R
840702812/V	**2.812**	3.250	0.218	2.812			3.250			0.250		41.40
840703000/N	**3.000**	3.437	0.218	3.000			3.437			0.250		11.12
840703000/NX*	**3.000**	3.437	0.218	3.000			3.437			0.250		O/R
840703000/V	**3.000**	3.437	0.218	3.000			3.437			0.250		44.52
840703062/N	**3.062**	3.500	0.218	3.062			3.500			0.250		12.73
840703312/N*	**3.312**	3.750	0.218	3.312			3.750			0.250		14.02
1/4" - Cross Section - 0.250"												
840800937/N*	**0.937**	1.437	0.250	0.937	+.000 -.002	+.000 -.003	1.437	+.003 -.000	+.003 -.000	0.281	+.010 -.010	O/R
840801000/N	**1.000**	1.500	0.250	1.000			1.500			0.281		7.32
840801375/N*	**1.375**	1.875	0.250	1.375			1.875			0.281		7.51
840801750/N*	**1.750**	2.250	0.250	1.750			2.250			0.281		7.87
840802000/N	**2.000**	2.500	0.250	2.000			2.500			0.281		8.68
840802500/N	**2.500**	3.000	0.250	2.500			3.000			0.281		9.14
840802750/N	**2.750**	3.250	0.250	2.750			3.250			0.281		9.62
840803375/N*	**3.375**	3.875	0.250	3.375			3.875			0.281		O/R
840803500/N	**3.500**	4.000	0.250	3.500			4.000			0.281		9.52
840803500/NX*	**3.500**	4.000	0.250	3.500			4.000			0.281		O/R
840803500/V	**3.500**	4.000	0.250	3.500			4.000			0.281		45.39
840803750/N	**3.750**	4.250	0.250	3.750			4.250			0.281		10.00
840804000/N	**4.000**	4.500	0.250	4.000			4.500			0.281		10.31
840804000/NX*	**4.000**	4.500	0.250	4.000			4.500			0.281		O/R
840804000/V	**4.000**	4.500	0.250	4.000			4.500			0.281		56.88
840804250/N*	**4.250**	4.750	0.250	4.250			4.750			0.281		10.91
840804500/N	**4.500**	5.000	0.250	4.500			5.000			0.281		11.36
840804500/NX*	**4.500**	5.000	0.250	4.500			5.000			0.281		136.98
840804500/V	**4.500**	5.000	0.250	4.500			5.000			0.281		64.08
840804750/N*	**4.750**	5.250	0.250	4.750			5.250			0.281		20.22

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

8400 series - NBR 80A, FPM, NITROXILE, EPDM

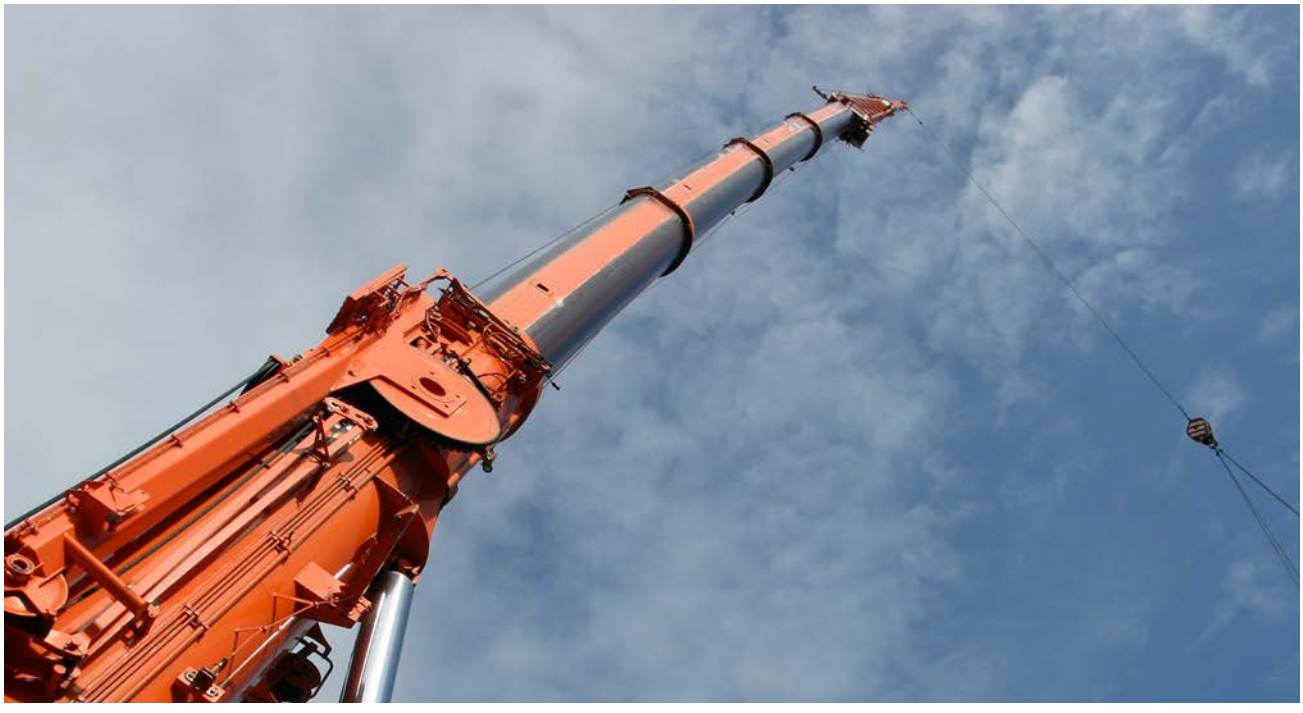
Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
9/32" - Cross Section - 0.281"												
840904437/N	**4.437**	5.000	0.281	4.437	+.000 -.002	+.000 -.003	5.000	+.000 -.003	+.003 -.000	0.312	+.010 -.010	20.51
840904437/V	**4.437**	5.000	0.281	4.437			5.000			0.312		66.33
840904562/N*	**4.562**	5.125	0.281	4.562			5.125			0.312		47.99
840905000/N	**5.000**	5.562	0.281	5.000			5.562			0.312		39.73
840905000/NX*	**5.000**	5.562	0.281	5.000			5.562			0.312		O/R
840905000/V	**5.000**	5.562	0.281	5.000			5.562			0.312		73.56
840905437/N	**5.437**	6.000	0.281	5.437			6.000			0.312		23.55
840905437/NX*	**5.437**	6.000	0.281	5.437			6.000			0.312		O/R
840905437/V	**5.437**	6.000	0.281	5.437			6.000			0.312		80.60
840905937/N*	**5.937**	6.500	0.281	5.937			6.500			0.312		16.89
840905937/NX*	**5.937**	6.500	0.281	5.937			6.500			0.312		88.75
840906437/N*	**6.437**	7.000	0.281	6.437			7.000			0.312		15.86
5/16" - Cross Section - 0.312"												
841002375/N*	**2.375**	3.000	0.312	2.375	+.000 -.002	+.000 -.004	3.000	+.004 -.000	+.003 -.000	0.344	+.010 -.010	O/R
841002375/NX	**2.375**	3.000	0.312	2.375			3.000			0.344		66.84
841004375/N	**4.375**	5.000	0.312	4.375			5.000			0.344		14.25
841005125/N	**5.125**	5.750	0.312	5.125			5.750			0.344		17.57
841005375/N	**5.375**	6.000	0.312	5.375			6.000			0.344		21.34
841005375/V	**5.375**	6.000	0.312	5.375			6.000			0.344		92.49
841005500/N	**5.500**	6.125	0.312	5.500			6.125			0.344		28.06
841005500/NX*	**5.500**	6.125	0.312	5.500			6.125			0.344		O/R
841005500/V*	**5.500**	6.125	0.312	5.500			6.125			0.344		121.54
841006000/N*	**6.000**	6.625	0.312	6.000			6.625			0.344		33.69
841006375/N	**6.375**	7.000	0.312	6.375			7.000			0.344		33.76
841006375/NX*	**6.375**	7.000	0.312	6.375			7.000			0.344		O/R
841006375/V	**6.375**	7.000	0.312	6.375			7.000			0.344		128.19
841006969/N*	**6.969**	7.593	0.312	6.969			7.593			0.344		38.62
841007000/N*	**7.000**	7.625	0.312	7.000			7.625			0.344		O/R
841007375/N	**7.375**	8.000	0.312	7.375			8.000			0.344		41.82
841007375/NX*	**7.375**	8.000	0.312	7.375			8.000			0.344		O/R
841007375/V	**7.375**	8.000	0.312	7.375			8.000			0.344		196.50
841008500/N*	**8.500**	9.125	0.312	8.500			9.125			0.344		O/R
11/32" - Cross Section - 0.343"												
841109312/4182*	**9.312**	10.000	0.343	9.312	+.000 -.001	+.002 -.000	10.000	+.004 -.000	+.003 -.000	0.375	+.010 -.010	O/R
841109312/N	**9.312**	10.000	0.343	9.312			10.000			0.375		57.35
841109312/NX*	**9.312**	10.000	0.343	9.312			10.000			0.375		O/R
841109312/V*	**9.312**	10.000	0.343	9.312			10.000			0.375		249.46
3/8" Cross Section - 0.375"												
841202250/N	**2.250**	3.000	0.375	2.250	+.000/-.002	+.000/-.005	3.000	+.004/-.000	+.002/-.000	0.406	+.010/-.010	10.01

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8400 series - NBR 80A, FPM, NITROXILE, EPDM

Ref.Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM	d1 - Tol.	d2 - Tol.	DIM	D1 - Tol.	D2 - Tol.	H1	Tol.	
3/8" - Cross Section - 0.375"												
841202500/N*	**2.500**	3.250	0.375	2.500	+.000 -.002	+.000 -.005	3.250	+.004 -.000	+.002 -.000	0.406	+.010 -.010	10.25
841209250/N*	**9.250**	10.000	0.375	9.250			10.000			0.406		58.39
841211250/4182*	**11.250**	12.000	0.375	11.250			12.000			0.406		O/R
841211250/N	**11.250**	12.000	0.375	11.250			12.000			0.406		99.15
841211250/NX*	**11.250**	12.000	0.375	11.250			12.000			0.406		O/R
841211250/V*	**11.250**	12.000	0.375	11.250			12.000			0.406		294.28
841213250/V*	**13.250**	14.000	0.375	13.250			14.000			0.406		377.98
13/32" - Cross Section - 0.406"												
841313187/N	**13.187**	14.000	0.406	13.187	+.000 -.002	+.000 -.005	14.000	+.005 -.000	+.004 -.000	0.437	+.010 -.010	225.83
841313187/V*	**13.187**	14.000	0.406	13.187			14.000			0.437		398.77
7/16" - Cross Section - 0.437"												
841417125/N*	**17.125**	18.000	0.437	17.125	+.000/-.003	+.000/-.006	18.000	+.006/-.000	+.005/-.000	0.469	+.010/-.010	O/R
1/2" - Cross Section - 0.500"												
841609000/N*	**9.000**	10.000	0.500	9.000	+.000 -.003	+.000/-.005	10.000	+.005/-.000	+.004/-.000	0.531	+.010 -.010	95.62
841611000/N*	**11.000**	12.000	0.500	11.000		+.000 -.007	12.000	+.007 -.000	+.005 -.000	0.531		125.01
841613000/N	**13.000**	14.000	0.500	13.000			14.000			0.531		127.54

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.



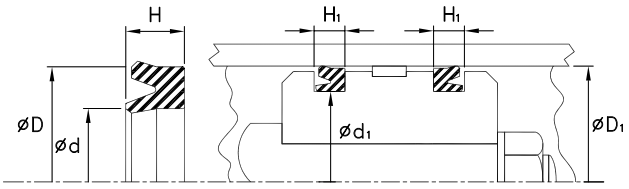




	UP	D	2
	KP	D	8
	CB	D	9
	CF	D	11
	ECF	D	14
	CH	D	15
	CS	D	18
	CT	D	20
	TP, TP-1, TP-2	D	22
	UNIRING	D	26
	P2U	D	28
	P2U - A - WB	D	32
	PIP RING	D	34
	TFES	D	36
	TFES-U	D	38
	160G	D	40
	TFER/G	D	41
	CAT TYPE 1	D	43
	TFER/B	D	44
	TFER/U	D	46
	AQ	D	48
	AQ5	D	50
	PS2470	D	52
	P2B	D	53
	P2G	D	54
	CAT TYPE 3	D	56
	ZG	D	59
	CTS	D	60
	CAT TYPE 4	D	63
	P1000	D	65
	P3C	D	70
	P3D	D	73
	P5B	D	75

UP - Piston seals - Inch





Standard Material	Temperature Range	Pressure Range	Surface Speed
STD Polyurethane AU 92A	-40°F to +212°F (-40°C to +100°C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)
606 Hythane AU 93A	-50°F to +230°F (-45°C to +110°C)	≤5000 psi (≤345 bar)	
9250 Polyurethane AU 92A	-65°F to +300°F (-54°C to +149°C)	≤6000 psi (≤414 bar)	
4615 AU 92A	-65°F to +200°F (-54°C to +107°C)	≤5000 psi (≤345 bar)	

UP-style piston seals are non-symmetrical lip seals of single-acting design. The asymmetrical cross-sectional shape insures that the seal remains steady in the groove preventing tipping or twisting, resulting in excellent sealability and low-drift as well as low breakout force. Double acting cylinders require tandem seals in separate grooves.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Tolerance Guide					
d1	**Tol.**	**D1**	**Tol.**	**H1**	**Tol.**
d1<3.000"	(+.000/-.003)	D1<5.000"	(+.003/-.000)	H1= All Sizes	(+.010/-.000)
d1=3.000" < 7.000"	(+.000/-.004)	D1=5.000" < 7.000"	(+.004/-.000)		
d1=7.000" < 10.000"	(+.000/-.005)	D1=7.000" < 9.000"	(+.005/-.000)		
d1=10.000" & Up	(+.000/-.006)	D1=9.000" & Up	(+.010/-.000)		

Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP12500250	**0.500**	0.500	0.250	0.125	0.250	0.138	---	---	---	2.87
UP12500312-187	**0.562**	0.562	0.312	0.187	0.312	0.206	---	---	---	2.97
UP18700375-312	**0.750**	0.750	0.375	0.312	0.375	0.343	---	---	6.87*	---
UP12500500-187	**0.750**	0.750	0.500	0.187	0.500	0.206	5.91*	---	---	8.81
UP12500500-250	**0.750**	0.750	0.500	0.250	0.500	0.275	5.91*	---	---	8.81
UP12500625	**0.875**	0.875	0.625	0.125	0.625	0.138	6.21*	---	---	9.27
UP12500625-250	**0.875**	0.875	0.625	0.250	0.625	0.275	---	---	---	3.25
UP12500750	**1.000**	1.000	0.750	0.125	0.750	0.138	6.75*	11.51*	---	---
UP12500750-187	**1.000**	1.000	0.750	0.187	0.750	0.218	---	12.57*	---	---
UP12500750-250	**1.000**	1.000	0.750	0.250	0.750	0.281	---	12.88*	---	---
UP18700750-250	**1.125**	1.125	0.750	0.250	0.750	0.281	---	19.67	---	---
UP18700750-312	**1.125**	1.125	0.750	0.312	0.750	0.343	---	---	7.44*	---
UP12500875-250	**1.125**	1.125	0.875	0.250	0.875	0.281	---	13.34*	---	---
UP18700812	**1.187**	1.187	0.812	0.187	0.812	0.218	---	13.03*	---	---

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP18700812-250	**1.187**	1.187	0.812	0.250	0.812	0.281	---	13.19*	---	---
UP18700875	**1.250**	1.250	0.875	0.187	0.875	0.218	---	13.34*	---	---
UP18700875-250	**1.250**	1.250	0.875	0.250	0.875	0.281	---	13.80*	---	---
UP18700875-312	**1.250**	1.250	0.875	0.312	0.875	0.343	---	14.14*	---	---
UP12501000	**1.250**	1.250	1.000	0.125	1.000	0.156	---	13.67*	---	---
UP12501000-187	**1.250**	1.250	1.000	0.187	1.000	0.206	7.02*	14.31*	---	10.47
UP12501000-250	**1.250**	1.250	1.000	0.250	1.000	0.281	---	13.60*	---	---
UP25000875	**1.375**	1.375	0.875	0.250	0.875	0.275	8.09*	14.14*	---	12.05
UP25000937	**1.437**	1.437	0.937	0.250	0.937	0.275	---	---	---	4.19
UP25001000	**1.500**	1.500	1.000	0.250	1.000	0.275	8.13*	14.21	---	12.13
UP25001000-312	**1.500**	1.500	1.000	0.312	1.000	0.343	---	15.23*	---	---
UP25001000-375	**1.500**	1.500	1.000	0.375	1.000	0.413	8.13*	14.66*	---	12.13
UP18701125-250	**1.500**	1.500	1.125	0.250	1.125	0.275	---	15.07*	8.83	---
UP18701125-312	**1.500**	1.500	1.125	0.312	1.125	0.343	---	15.40*	---	---
UP18701125-375	**1.500**	1.500	1.125	0.375	1.125	0.406	---	15.69*	---	---
UP12501250-250	**1.500**	1.500	1.250	0.250	1.250	0.275	---	---	9.36	---
UP25001125	**1.625**	1.625	1.125	0.250	1.125	0.281	---	15.69*	---	---
UP25001125-312	**1.625**	1.625	1.125	0.312	1.125	0.343	---	15.30*	---	---
UP25001125-375	**1.625**	1.625	1.125	0.375	1.125	0.406	---	16.65*	---	---
UP18701250-250	**1.625**	1.625	1.250	0.250	1.250	0.281	---	15.56*	---	---
UP18701250-312	**1.625**	1.625	1.250	0.312	1.250	0.343	7.85*	22.03*	---	11.73
UP25001187	**1.687**	1.687	1.187	0.250	1.187	0.275	8.39*	---	---	12.53
UP31201125-437	**1.750**	1.750	1.125	0.437	1.125	0.468	---	18.37*	---	---
UP31201125-500	**1.750**	1.750	1.125	0.500	1.125	0.531	---	17.79*	---	---
UP25001250	**1.750**	1.750	1.250	0.250	1.250	0.281	---	16.33	---	---
UP25001250-375	**1.750**	1.750	1.250	0.375	1.250	0.413	8.44*	16.95*	---	12.58
UP18701375-312	**1.750**	1.750	1.375	0.312	1.375	0.343	---	18.26	---	---
UP18701375-375	**1.750**	1.750	1.375	0.375	1.375	0.406	---	17.11*	---	---
UP31201250-437	**1.875**	1.875	1.250	0.437	1.250	0.468	---	18.48*	---	---
UP31201250-500	**1.875**	1.875	1.250	0.500	1.250	0.531	---	19.94*	---	---
UP25001375	**1.875**	1.875	1.375	0.250	1.375	0.281	---	17.67*	---	---
UP31201375-375	**2.000**	2.000	1.375	0.375	1.375	0.406	---	27.80	---	---
UP31201375-437	**2.000**	2.000	1.375	0.437	1.375	0.468	---	21.53	---	---
UP31201375-500	**2.000**	2.000	1.375	0.500	1.375	0.550	10.17*	20.89	10.28*	15.14
UP25001500	**2.000**	2.000	1.500	0.250	1.500	0.275	9.39*	19.01*	---	14
UP25001500-312	**2.000**	2.000	1.500	0.312	1.500	0.343	9.51*	18.05	---	14.19
UP25001500-375	**2.000**	2.000	1.500	0.375	1.500	0.413	9.64	18.05	12.17	---
UP18701625	**2.000**	2.000	1.625	0.187	1.625	0.206	---	---	12.17	---
UP18701625-250	**2.000**	2.000	1.625	0.250	1.625	0.275	9.19*	---	---	13.70
UP18701625-312	**2.000**	2.000	1.625	0.312	1.625	0.343	9.19*	18.22	12.17	---
UP18701625-375	**2.000**	2.000	1.625	0.375	1.625	0.413	9.19*	18.22*	12.17	13.70
UP18701750-312	**2.125**	2.125	1.750	0.312	1.750	0.343	---	21.52*	---	---
UP18701750-375	**2.125**	2.125	1.750	0.375	1.750	0.406	---	15.49*	---	---
UP31201625-375	**2.250**	2.250	1.625	0.375	1.625	0.406	---	23.08*	---	---
UP31201625-500	**2.250**	2.250	1.625	0.500	1.625	0.531	---	21.52*	---	---
UP25001750-312	**2.250**	2.250	1.750	0.312	1.750	0.343	---	21.20*	---	---

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UP series - AU

Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP25001750-375	**2.250**	2.250	1.750	0.375	1.750	0.413	---	22.78*	12.34	---
UP18701875-375	**2.250**	2.250	1.875	0.375	1.875	0.413	---	---	12.34	---
UP31201750-500	**2.375**	2.375	1.750	0.500	1.750	0.531	---	25.60*	---	---
UP25001875-312	**2.375**	2.375	1.875	0.312	1.875	0.343	---	84.02*	---	---
UP18702000-312	**2.375**	2.375	2.000	0.312	2.000	0.343	---	26.18*	7.18*	---
UP18702000-375	**2.375**	2.375	2.000	0.375	2.000	0.406	---	19.15*	---	---
UP43701625-500	**2.500**	2.500	1.625	0.500	1.625	0.550	---	---	14.67*	---
UP37501750	**2.500**	2.500	1.750	0.375	1.750	0.413	16.17*	---	---	24.11
UP37501750-625	**2.500**	2.500	1.750	0.625	1.750	0.656	---	---	---	---
UP31201875-375	**2.500**	2.500	1.875	0.375	1.875	0.406	---	22.20	---	---
UP31201875-437	**2.500**	2.500	1.875	0.437	1.875	0.468	---	26.71	---	---
UP31201875-500	**2.500**	2.500	1.875	0.500	1.875	0.550	13.17*	27.02*	14.67	19.63
UP25002000	**2.500**	2.500	2.000	0.250	2.000	0.275	---	---	14.67	19.69
UP25002000-312	**2.500**	2.500	2.000	0.312	2.000	0.343	---	22.93*	---	---
UP25002000-375	**2.500**	2.500	2.000	0.375	2.000	0.413	11.83	23.32	15.38	---
UP18702125	**2.500**	2.500	2.125	0.187	2.125	0.218	---	28.11	---	---
UP18702125-250	**2.500**	2.500	2.125	0.250	2.125	0.275	---	22.45*	14.83	---
UP18702125-312	**2.500**	2.500	2.125	0.312	2.125	0.343	11.78*	28.11*	14.83	17.57
UP18702125-375	**2.500**	2.500	2.125	0.375	2.125	0.413	11.78*	28.11*	15.57	17.57
UP25002125-312	**2.625**	2.625	2.125	0.312	2.125	0.343	---	25.12*	---	---
UP25002125-375	**2.625**	2.625	2.125	0.375	2.125	0.406	---	25.12*	---	19.79
UP37502000	**2.750**	2.750	2.000	0.375	2.000	0.406	---	36.11*	---	---
UP37502000-500	**2.750**	2.750	2.000	0.500	2.000	0.531	---	38.62*	---	---
UP37502000-625	**2.750**	2.750	2.000	0.625	2.000	0.656	---	36.60*	---	---
UP31202125	**2.750**	2.750	2.125	0.312	2.125	0.343	---	28.74*	---	---
UP25002250-312	**2.750**	2.750	2.250	0.312	2.250	0.343	---	31.69*	---	---
UP25002250-375	**2.750**	2.750	2.250	0.375	2.250	0.413	13.31*	25.24	---	---
UP25002375-312	**2.875**	2.875	2.375	0.312	2.375	0.343	---	26.86*	---	---
UP25002375-375	**2.875**	2.875	2.375	0.375	2.375	0.406	---	27.17*	---	---
UP37502250	**3.000**	3.000	2.250	0.375	2.250	0.406	---	40.83*	---	---
UP37502250-455	**3.000**	3.000	2.250	0.455	2.250	0.493	---	---	18.33*	---
UP37502250-500	**3.000**	3.000	2.250	0.500	2.250	0.531	---	41.45	---	---
UP37502250-625	**3.000**	3.000	2.250	0.625	2.250	0.656	---	29.55*	---	---
UP31202375-375	**3.000**	3.000	2.375	0.375	2.375	0.406	---	27.49*	---	---
UP31202375-500	**3.000**	3.000	2.375	0.500	2.375	0.550	15.45*	33.62*	18.33	23.02
UP25002500	**3.000**	3.000	2.500	0.250	2.500	0.275	14.78*	28.11*	18.33	22.05
UP25002500-312	**3.000**	3.000	2.500	0.312	2.500	0.343	---	28.74	---	---
UP25002500-375	**3.000**	3.000	2.500	0.375	2.500	0.413	14.78	24.18	18.33	---
UP18702625-375	**3.000**	3.000	2.625	0.375	2.625	0.413	---	---	21.84	---
UP37502500	**3.250**	3.250	2.500	0.375	2.500	0.413	16.63*	42.88*	---	24.81
UP37502500-500	**3.250**	3.250	2.500	0.500	2.500	0.550	21.79*	44.30*	---	32.49
UP37502500-625	**3.250**	3.250	2.500	0.625	2.500	0.656	---	56.22*	---	---
UP31202625-500	**3.250**	3.250	2.625	0.500	2.625	0.550	---	---	21.84	---
UP25002750	**3.250**	3.250	2.750	0.250	2.750	0.275	---	---	19.85	---
UP25002750-375	**3.250**	3.250	2.750	0.375	2.750	0.413	16.27*	26.53	19.85	24.25
UP18702875-250	**3.250**	3.250	2.875	0.250	2.875	0.275	---	---	24.12	---

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Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP18702875-375	**3.250**	3.250	2.875	0.375	2.875	0.413	15.94*	---	---	23.77
UP37502750	**3.500**	3.500	2.750	0.375	2.750	0.406	---	31.40	---	---
UP37502750-500	**3.500**	3.500	2.750	0.500	2.750	0.550	21.95*	48.67*	23.93	32.73
UP37502750-625	**3.500**	3.500	2.750	0.625	2.750	0.688	---	38.08*	27.66	---
UP31202875	**3.500**	3.500	2.875	0.312	2.875	0.343	---	---	23.87*	---
UP31202875-375	**3.500**	3.500	2.875	0.375	2.875	0.406	---	37.22	---	---
UP31202875-500	**3.500**	3.500	2.875	0.500	2.875	0.550	17.77*	34.10*	24.12*	26.51
UP25003000	**3.500**	3.500	3.000	0.250	3.000	0.275	16.63*	---	24.20*	24.81
UP25003000-375	**3.500**	3.500	3.000	0.375	3.000	0.413	16.63*	27.10	24.20	24.81
UP18703125-275	**3.500**	3.500	3.125	0.275	3.125	0.302	---	---	24.12*	---
UP18703125-375	**3.500**	3.500	3.125	0.375	3.125	0.413	---	32.56	21.09	---
UP37503000	**3.750**	3.750	3.000	0.375	3.000	0.406	---	37.58	---	---
UP37503000-500	**3.750**	3.750	3.000	0.500	3.000	0.550	26.17*	32.29	---	39.02
UP37503000-625	**3.750**	3.750	3.000	0.625	3.000	0.688	26.17*	56.06*	---	39.02
UP31203125-375	**3.750**	3.750	3.125	0.375	3.125	0.413	19.63*	40.68*	---	29.27
UP31203125-500	**3.750**	3.750	3.125	0.500	3.125	0.550	19.63*	41.30*	---	29.27
UP25003250-375	**3.750**	3.750	3.250	0.375	3.250	0.413	18.02*	28.67	24.24*	---
UP37503250	**4.000**	4.000	3.250	0.375	3.250	0.413	---	33.16*	24.36	---
UP37503250-437	**4.000**	4.000	3.250	0.437	3.250	0.481	27.78*	---	---	41.43
UP37503250-500	**4.000**	4.000	3.250	0.500	3.250	0.550	28.06*	34.30*	33.96	---
UP37503250-625	**4.000**	4.000	3.250	0.625	3.250	0.688	28.35*	34.30	24.36	42.29
UP31203375-375	**4.000**	4.000	3.375	0.375	3.375	0.406	---	34.67	---	---
UP31203375-500	**4.000**	4.000	3.375	0.500	3.375	0.550	21.21*	34.67*	24.75	---
UP25003500	**4.000**	4.000	3.500	0.250	3.500	0.275	19.40*	38.62*	24.85	28.93
UP25003500-312	**4.000**	4.000	3.500	0.312	3.500	0.343	---	---	24.85	---
UP25003500-375	**4.000**	4.000	3.500	0.375	3.500	0.413	19.40	32.15	24.85	---
UP18703625-375	**4.000**	4.000	3.625	0.375	3.625	0.413	21.43*	46.02*	26.08	31.96
UP25003625-375	**4.125**	4.125	3.625	0.375	3.625	0.406	---	38.03*	---	---
UP37503500	**4.250**	4.250	3.500	0.375	3.500	0.406	---	37.75	---	---
UP37503500-500	**4.250**	4.250	3.500	0.500	3.500	0.550	29.91*	---	---	---
UP31203625-375	**4.250**	4.250	3.625	0.375	3.625	0.406	---	36.31*	---	---
UP31203625-500	**4.250**	4.250	3.625	0.500	3.625	0.531	---	36.31*	---	---
UP25003750-375	**4.250**	4.250	3.750	0.375	3.750	0.413	20.79*	33.09*	26.69	---
UP37503750	**4.500**	4.500	3.750	0.375	3.750	0.413	31.73*	41.68	---	47.32
UP37503750-500	**4.500**	4.500	3.750	0.500	3.750	0.550	32.05*	41.68*	---	47.80
UP37503750-625	**4.500**	4.500	3.750	0.625	3.750	0.688	32.38*	45.11	36.19	48.29
UP31203875-375	**4.500**	4.500	3.875	0.375	3.875	0.406	---	49.78*	---	---
UP31203875-500	**4.500**	4.500	3.875	0.500	3.875	0.531	---	40.98*	---	---
UP25004000-375	**4.500**	4.500	4.000	0.375	4.000	0.413	21.29*	54.63*	27.66	---
UP25004000-562	**4.500**	4.500	4.000	0.562	4.000	0.593	---	41.79	---	---
UP31204000-375	**4.625**	4.625	4.000	0.375	4.000	0.406	---	62.49*	---	---
UP31204000-500	**4.625**	4.625	4.000	0.500	4.000	0.531	---	51.19*	---	---
UP18504379-275	**4.750**	4.750	4.379	0.275	4.379	0.301	---	---	9.48*	---
UP25004375-562	**4.875**	4.875	4.375	0.562	4.375	0.618	---	---	---	13.36
UP50004000-731	**5.000**	5.000	4.000	0.731	4.000	0.803	---	---	100.47*	---
UP37504250	**5.000**	5.000	4.250	0.375	4.250	0.413	34.84*	41.85	41.00	---

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UP series - AU

Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP37504250-500	**5.000**	5.000	4.250	0.500	4.250	0.550	35.19	41.85	43.09	---
UP37504250-625	**5.000**	5.000	4.250	0.625	4.250	0.688	35.53*	48.32*	41.00	53.00
UP31204375-562	**5.000**	5.000	4.375	0.562	4.375	0.618	27.17*	---	---	40.53
UP25004500	**5.000**	5.000	4.500	0.250	4.500	0.275	23.95*	52.93*	41.88	35.71
UP25004500-375	**5.000**	5.000	4.500	0.375	4.500	0.413	23.95	42.61	43.96	---
UP25004500-437	**5.000**	5.000	4.500	0.437	4.500	0.468	---	57.50*	---	---
UP25004500-562	**5.000**	5.000	4.500	0.562	4.500	0.618	23.95*	44.85	41.88	35.71
UP37504375-500	**5.125**	5.125	4.375	0.500	4.375	0.531	---	43.71*	---	---
UP37504500	**5.250**	5.250	4.500	0.375	4.500	0.406	---	45.23*	---	---
UP37504500-500	**5.250**	5.250	4.500	0.500	4.500	0.550	---	47.36*	41.88	---
UP37504500-625	**5.250**	5.250	4.500	0.625	4.500	0.656	---	50.89	---	---
UP25004750-312	**5.250**	5.250	4.750	0.312	4.750	0.343	25.28*	---	---	37.69
UP25004750-375	**5.250**	5.250	4.750	0.375	4.750	0.413	---	---	---	23.65
UP37504750-500	**5.500**	5.500	4.750	0.500	4.750	0.550	39.32*	53.19*	---	58.64
UP37504750-625	**5.500**	5.500	4.750	0.625	4.750	0.688	---	53.19*	44.13	---
UP25005000-250AE	**5.500**	5.500	5.000	0.250	5.000	0.275	---	---	---	---
UP25005000-375	**5.500**	5.500	5.000	0.375	5.000	0.413	28.46	89.01*	---	---
UP25005000-562	**5.500**	5.500	5.000	0.562	5.000	0.618	28.46*	75.38	---	---
UP37505000-500	**5.750**	5.750	5.000	0.500	5.000	0.531	---	55.20	---	---
UP50005000-625	**6.000**	6.000	5.000	0.625	5.000	0.688	---	---	---	31.17
UP37505250	**6.000**	6.000	5.250	0.375	5.250	0.413	42.69*	66.56	57.15	---
UP37505250-500	**6.000**	6.000	5.250	0.500	5.250	0.550	42.69*	66.56	57.15	---
UP37505250-625	**6.000**	6.000	5.250	0.625	5.250	0.688	42.69*	66.56	57.15	63.65
UP31205375-375	**6.000**	6.000	5.375	0.375	5.375	0.406	---	99.28*	---	---
UP31205375-500	**6.000**	6.000	5.375	0.500	5.375	0.531	---	66.56*	---	---
UP31205375-625	**6.000**	6.000	5.375	0.625	5.375	0.688	34.97*	75.53*	---	52.12
UP25005500	**6.000**	6.000	5.500	0.250	5.500	0.275	32.87*	56.90*	44.06	49.02
UP25005500-375	**6.000**	6.000	5.500	0.375	5.500	0.413	33.19*	56.90	44.06	49.48
UP25005500-500	**6.000**	6.000	5.500	0.500	5.500	0.531	---	56.90*	---	---
UP25005500-562	**6.000**	6.000	5.500	0.562	5.500	0.618	33.49*	56.90*	44.06	49.96
UP19705607-260	**6.000**	6.000	5.607	0.260	5.607	0.300	---	---	---	---
UP50005250-625	**6.250**	6.250	5.250	0.625	5.250	0.656	---	71.67*	---	---
UP50005250-750	**6.250**	6.250	5.250	0.750	5.250	0.781	---	122.96*	---	---
UP37505500	**6.250**	6.250	5.500	0.375	5.500	0.406	---	67.14*	---	---
UP37505500-437	**6.250**	6.250	5.500	0.437	5.500	0.468	---	92.02*	---	---
UP37505500-500	**6.250**	6.250	5.500	0.500	5.500	0.550	44.72*	---	---	66.70
UP25005750-562	**6.250**	6.250	5.750	0.562	5.750	0.618	---	---	49.52	---
UP50005500-625	**6.500**	6.500	5.500	0.625	5.500	0.656	---	72.98*	---	---
UP50005500-750	**6.500**	6.500	5.500	0.750	5.500	0.781	---	125.31*	---	---
UP37505750-500	**6.500**	6.500	5.750	0.500	5.750	0.531	---	97.20*	---	---
UP37505750-625	**6.500**	6.500	5.750	0.625	5.750	0.688	46.76*	67.59*	60.77*	69.71
UP25006000-562	**6.500**	6.500	6.000	0.562	6.000	0.593	---	78.51*	---	---
UP37506000-500	**6.750**	6.750	6.000	0.500	6.000	0.531	---	81.97*	---	---
UP37506000-625	**6.750**	6.750	6.000	0.625	6.000	0.656	---	101.28*	---	---
UP50006000-750	**7.000**	7.000	6.000	0.750	6.000	0.781	---	154.03*	---	---
UP37506250	**6.250**	7.000	6.250	0.375	6.250	0.413	---	117.59	65.18	---

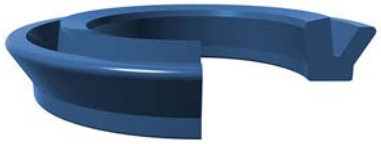
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP37506250-500	**7.000**	7.000	6.250	0.500	6.250	0.550	47.59*	113.72	65.18	---
UP37506250-625	**7.000**	7.000	6.250	0.625	6.250	0.688	---	99.50*	65.81	75.25
UP25006500	**7.000**	7.000	6.500	0.250	6.500	0.275	---	---	57.00	---
UP25006500-375	**7.000**	7.000	6.500	0.375	6.500	0.413	---	---	57.00	---
UP37506500	**7.250**	7.250	6.500	0.375	6.500	0.406	---	103.17*	---	---
UP37506500-500	**7.250**	7.250	6.500	0.500	6.500	0.531	---	106.47*	---	---
UP37506500-625	**7.250**	7.250	6.500	0.625	6.500	0.656	---	101.48	---	---
UP50006500-590	**7.500**	7.500	6.500	0.590	6.500	0.621	---	129.72*	---	---
UP50006500-625	**7.500**	7.500	6.500	0.625	6.500	0.656	---	106.71*	---	---
UP50006500-750	**7.500**	7.500	6.500	0.750	6.500	0.781	---	106.71	---	---
UP37506750-500	**7.500**	7.500	6.750	0.500	6.750	0.531	---	105.88*	---	---
UP37506750-625	**7.500**	7.500	6.750	0.625	6.750	0.688	51.40*	113.85	---	---
UP50007000	**8.000**	8.000	7.000	0.500	7.000	0.531	---	164.67	---	---
UP50007000-625	**8.000**	8.000	7.000	0.625	7.000	0.656	---	142.90*	---	---
UP50007000-750	**8.000**	8.000	7.000	0.750	7.000	0.781	---	147.46*	---	---
UP37507250	**8.000**	8.000	7.250	0.375	7.250	0.413	54.66*	145.10	---	81.51
UP37507250-500	**8.000**	8.000	7.250	0.500	7.250	0.550	54.66*	114.27	---	81.51
UP37507250-625	**8.000**	8.000	7.250	0.625	7.250	0.688	---	152.62	76.05	---
UP25007500	**8.000**	8.000	7.500	0.250	7.500	0.275	---	---	94.68*	---
UP62507250	**8.500**	8.500	7.250	0.625	7.250	0.688	---	---	---	94.01
UP50007500-625	**8.500**	8.500	7.500	0.625	7.500	0.656	---	119.42*	---	---
UP50007500-750	**8.500**	8.500	7.500	0.750	7.500	0.781	---	170.30	---	---
UP50008000-625	**9.000**	9.000	8.000	0.625	8.000	0.656	---	155.79*	---	---
UP50008000-750	**9.000**	9.000	8.000	0.750	8.000	0.825	---	130.03*	104.83*	---
UP37508250-625	**9.000**	9.000	8.250	0.625	8.250	0.688	60.98*	---	---	90.93
UP50009000-500AE	**10.000**	10.000	9.000	0.500	9.000	0.531	---	---	---	---
UP50009000-625	**10.000**	10.000	9.000	0.625	9.000	0.656	---	216.95	---	---
UP50009000-750	**10.000**	10.000	9.000	0.750	9.000	0.800	99.79*	293.80*	109.51	---
UP37509250	**10.000**	10.000	9.250	0.375	9.250	0.413	---	---	106.89*	---
UP50009500-625	**10.500**	10.500	9.500	0.625	9.500	0.656	---	197.08*	---	---
UP50010000-625	**11.000**	11.000	10.000	0.625	10.000	0.656	---	295.72*	---	---
UP50010000-750	**11.000**	11.000	10.000	0.750	10.000	0.781	---	190.11*	---	---
UP50011000-625	**12.000**	12.000	11.000	0.625	11.000	0.656	---	323.15*	---	---
UP50011000-750	**12.000**	12.000	11.000	0.750	11.000	0.781	---	284.68*	---	---
UP62514750-750	**16.000**	16.000	14.750	0.750	14.750	0.781	---	563.12*	---	---
UP62514750-1000	**16.000**	16.000	14.750	1.000	14.750	1.031	---	607.25*	---	---

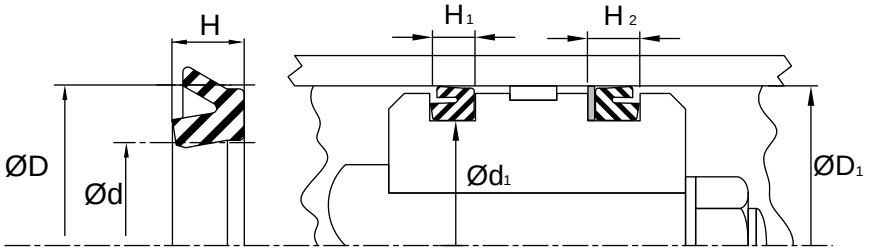
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



KP - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-50°F to +180°F (-46°C to +82°C)	≤230 psi (≤16 bar)	<3 ft/s (0.9 m/s)



KP-style Piston Seals are non-symmetrical. designed to seal both lubricated and non-lubricated air. To insure that critical surfaces retain lubrication. the radius edge of the lip is designed to hydroplane over pre-lubricated surfaces in order to provide extreme low friction and excellent wear resistance.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
KP156-01500/607	**1.500**	+.006 -.000	1.500	1.187	0.156	1.500	+.006 -.000	1.187	+.002/-.002	0.172	+.010 -.000	8.56
KP125-01500/607	**1.500**		1.500	1.250	0.125	1.500		1.250	+.003 -.003	0.138		8.56
KP187-01625/607*	**1.625**	↓	1.625	1.250	0.187	1.625	↓	1.250	↓	0.218	↓	9.24
KP187-02000/607*	**2.000**	+.007 -.000	2.000	1.625	0.187	2.000	+.007 -.000	1.625		0.218		9.74
KP187-02000/PS	**2.000**		2.000	1.625	0.187	2.000		1.625		0.218		9.98
KP125-02000/607	**2.000**		2.000	1.750	0.125	2.000		1.750	↓	0.138		11.38
KP187-02500/607	**2.500**		2.500	2.125	0.187	2.500		2.125	+.004 -.004	0.218		12.69
KP312-03000/607	**3.000**		3.000	2.375	0.312	3.000		2.375		0.344		18.75
KP250-03000/607	**3.000**		3.000	2.500	0.250	3.000		2.500		0.275		16.04
KP250-03250/607	**3.250**		3.250	2.750	0.250	3.250		2.750		0.275		17.90
KP250-03250/PS*	**3.250**		3.250	2.750	0.250	3.250		2.750		0.275		24.07
KP218-03250/607	**3.250**		3.250	2.812	0.218	3.250		2.812		0.275		16.75
KP250-03500/PS	**3.500**	↓	3.500	3.000	0.250	3.500	↓	3.000		0.275		23.46
KP375-04000/607	**4.000**	+.009 -.000	4.000	3.250	0.375	4.000	+.009 -.000	3.250		0.413		22.44
KP250-04000/607	**4.000**		4.000	3.500	0.250	4.000		3.500		0.275		21.89
KP250-04000/PS	**4.000**		4.000	3.500	0.250	4.000		3.500		0.275		24.26
KP250-04500/PS*	**4.500**	↓	4.500	4.000	0.250	4.500	↓	4.000		0.275		24.24
KP375-05000/607	**5.000**	+.010 -.000	5.000	4.250	0.375	5.000	+.010 -.000	4.250		0.413		41.45
KP250-05000/607	**5.000**		5.000	4.500	0.250	5.000		4.500		0.275		40.89
KP250-05000/PS	**5.000**		5.000	4.500	0.250	5.000		4.500		0.275		40.89
KP250-05500/PS*	**5.500**		5.500	5.000	0.250	5.500		5.000		0.275		34.65
KP437-06000/607	**6.000**	↓	6.000	5.125	0.437	6.000	↓	5.125	↓	0.480	↓	50.70

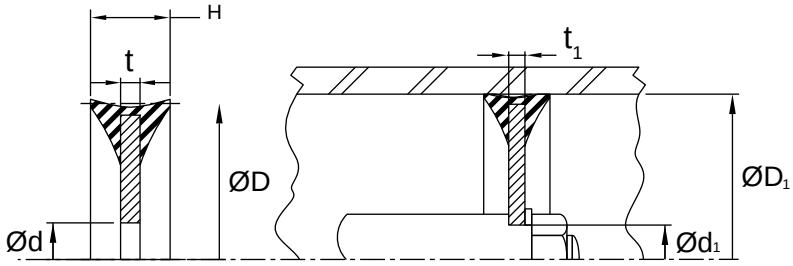
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
KP312-06000/607	**6.000**	+.010 -.000	6.000	5.375	0.312	6.000	+.010 -.000	5.375	+.005 -.005	0.344	+.010 -.000	43.89
KP250-06000/607	**6.000**		6.000	5.500	0.250	6.000		5.500		0.275		39.06
KP375-07000/607*	**7.000**		7.000	6.250	0.375	7.000		6.250		0.413		57.82
KP375-07000/PS*	**7.000**		7.000	6.250	0.375	7.000		6.250		0.413		43.28
KP312-07000/607	**7.000**		7.000	6.375	0.312	7.000		6.375		0.344		55.31
KP375-08000/607	**8.000**	+.011 -.000	8.000	7.250	0.375	8.000	+.011 -.000	7.250	+.006 -.006	0.413		66.83
KP312-08000/607	**8.000**		8.000	7.375	0.312	8.000		7.375		0.344		76.79
KP250-08000/607	**8.000**		8.000	7.500	0.250	8.000		7.500		0.275		66.83
KP375-10000/607	**10.000**	+.013 -.000	10.000	9.250	0.375	10.000	+.013 -.000	9.250		0.413		78.17
KP250-10000/PS	**10.000**		10.000	9.500	0.250	10.000		9.500		0.275		90.48
KP375-12000/607	**12.000**		12.000	11.250	0.375	12.000		11.250		0.413		91.29

CB - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Steel	-40°F to +250°F (-40°C to +121°C)	≤150 psi (≤10 bar)	< 3 ft/s (0.9 m/s)



CB-style is a double acting piston cup is a single piece unit designed to be fastened directly to the rod. The existing center hole may be enlarged to fit larger diameters. The cup is made of 90 durometer nitrile vulcanized to the coated steel plate. It is suitable for use in pneumatic and low pressure, light duty hydraulic cylinders.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d1	Tol.	t1	Tol.	
CB-28100	**1.000**	+.003 -.000	1.000	0.250	0.375	0.093					40.27
CB-28118	**1.125**		1.125	0.250	0.375	0.093					39.37
CB-28114	**1.250**		1.250	0.250	0.500	0.093					48.32
CB-281516*	**1.312**		1.312	0.250	0.500	0.093					39.93

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CB series - NBR/STEEL

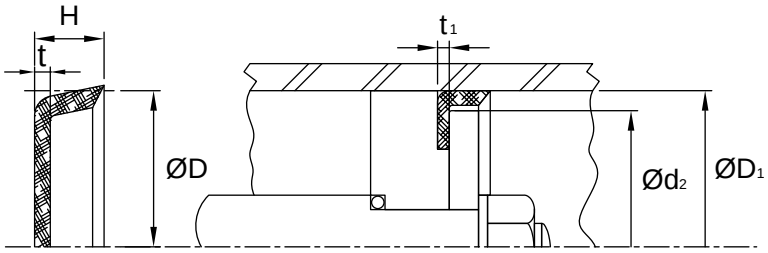
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	t	Housing Dimensions d1	Tol.	t1	Tol.	$
CB-28138*	**1.375**	+.003 -.000	1.375	0.250	0.500	0.093					41.59
CB-28112*	**1.500**		1.500	0.250	0.500	0.093					44.16
CB-28134	**1.750**		1.750	0.250	0.500	0.093					44.16
CB-28200	**2.000**		2.000	0.375	0.562	0.125					44.16
CB-28218*	**2.125**		2.125	0.375	0.562	0.125					43.23
CB-28214*	**2.250**		2.250	0.375	0.562	0.125					45.48
CB-28238*	**2.375**		2.375	0.375	0.562	0.125					48.97
CB-28212	**2.500**		2.500	0.375	0.562	0.125					56.85
CB-28258*	**2.625**		2.625	0.375	0.562	0.125					59.73
CB-28234*	**2.750**		2.750	0.375	0.562	0.125					61.05
CB-28300	**3.000**	+.004 -.000	3.000	0.500	0.562	0.125					64.36
CB-28314*	**3.250**		3.250	0.500	0.625	0.125					99.99
CB-28312	**3.500**		3.500	0.500	0.750	0.187					95.78
CB-28358*	**3.625**		3.625	0.500	0.750	0.187					99.31
CB-28334	**3.750**		3.750	0.500	0.750	0.187					103.54
CB-28400	**4.000**		4.000	0.500	0.750	0.187					113.74
CB-28414*	**4.250**		4.250	0.500	0.750	0.187					152.42
CB-28412	**4.500**		4.500	0.750	0.750	0.187					173.67
CB-28500	**5.000**		5.000	0.750	0.937	0.250					196.55
CB-28512	**5.500**		5.500	0.750	0.937	0.250					203.56
CB-28600	**6.000**		6.000	0.750	0.937	0.250					213.21
CB-28612*	**6.500**		6.500	0.750	0.937	0.250					318.23
CB-28700*	**7.000**	+.005 -.000	7.000	1.250	1.000	0.250					368.82
CB-28800	**8.000**		8.000	1.250	1.000	0.250					481.32
CB-28900*	**9.000**		9.000	1.250	1.000	0.250					503.88
CB-281000*	**10.000**	+.006 -.000	10.000	1.250	1.000	0.250					655.57
CB-281200*	**12.000**		12.000	1.250	1.000	0.250					854.99

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Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric	-40°F to +250°F (-40°C to +121°C)	≤3000 psi (≤210 bar)	<3 ft/s (0.9 m/s)

CENTER HOLE OPTIONAL



These fabric-reinforced cups are primarily used on hydraulic piston heads. plungers or rams. Easy to install with simple tooling, low cost and good service life are reasons why these seals are still common in the industry.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CF003750250*	**0.375**	+.003 -.000	0.375		0.250	0.062			0.054	+.003 -.000	9.57
CF004370250	**0.437**		0.437		0.250	0.062			0.054		15.42
CF005000250	**0.500**		0.500		0.250	0.062			0.054		9.78
CF005000500*	**0.500**		0.500		0.500	0.125			0.116		21.59
CF005620250*	**0.562**		0.562		0.250	0.093			0.085		9.87
CF006250281	**0.625**		0.625		0.281	0.093			0.085		10.00
CF006870281	**0.687**		0.687		0.281	0.093			0.085		10.00
CF007500250	**0.750**		0.750		0.250	0.093			0.085		10.00
CF007500312	**0.750**		0.750		0.312	0.093			0.085		10.00
CF007500500*	**0.750**		0.750		0.500	0.125			0.116		12.52
CF008750375	**0.875**		0.875		0.375	0.093			0.085		18.29
CF009370500	**0.937**		0.937		0.500	0.125			0.116		32.96
CF010000250*	**1.000**		1.000		0.250	0.125			0.116		33.87
CF010000437*	**1.000**		1.000		0.437	0.093			0.085		33.87
CF010000500*	**1.000**		1.000		0.500	0.093			0.085		33.87
CF010000500-1	**1.000**		1.000		0.500	0.125			0.116		12.33
CF011250437*	**1.125**		1.125		0.437	0.093			0.085		11.73
CF011250500	**1.125**		1.125		0.500	0.125			0.116		32.99
CF012500375*	**1.250**		1.250		0.375	0.093			0.085		13.06
CF012500437*	**1.250**		1.250		0.437	0.093			0.085		11.26
CF012500500	**1.250**		1.250		0.500	0.125			0.116		14.26
CF013750500	**1.375**		1.375		0.500	0.125			0.116		11.23

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CF series - NEOFAB

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CF015000375	**1.500**	+.003 -.000	1.500		0.375	0.125			0.116	+.003 -.000	15.27
CF015000500	**1.500**		1.500		0.500	0.125			0.116		21.04
CF016250500*	**1.625**		1.625		0.500	0.125			0.116		35.29
CF017500375*	**1.750**		1.750		0.375	0.093			0.085		23.98
CF017500500	**1.750**		1.750		0.500	0.125			0.116		23.98
CF018120375*	**1.812**		1.812		0.375	0.125			0.116		36.44
CF018750500	**1.875**		1.875		0.500	0.125			0.116		17.13
CF020000500	**2.000**		2.000		0.500	0.125			0.116		17.75
CF020000500-1	**2.000**		2.000		0.500	0.156			0.146		43.41
CF020000500-2*	**2.000**		2.000		0.500	0.187			0.178		43.41
CF020000750*	**2.000**		2.000		0.750	0.125			0.116		43.41
CF021250375*	**2.125**		2.125		0.375	0.125			0.116		22.37
CF021250500*	**2.125**		2.125		0.500	0.125			0.116		22.37
CF022500500	**2.250**		2.250		0.500	0.125			0.116		18.55
CF023750500*	**2.375**		2.375		0.500	0.125			0.116		20.74
CF025000500	**2.500**		2.500		0.500	0.125			0.116		22.28
CF025000500-1*	**2.500**		2.500		0.500	0.156			0.146		22.28
CF025000562*	**2.500**		2.500		0.562	0.125			0.116		22.28
CF025000562-1	**2.500**		2.500		0.562	0.187			0.178		23.62
CF026250500	**2.625**		2.625		0.500	0.125			0.116		41.97
CF026250750*	**2.625**		2.625		0.750	0.125			0.116		41.97
CF027500500	**2.750**		2.750		0.500	0.125			0.116		48.76
CF028750500	**2.875**		2.875		0.500	0.125			0.116		57.34
CF028750750*	**2.875**		2.875		0.750	0.187			0.178		57.34
CF030000500	**3.000**	+.004 -.000	3.000		0.500	0.125			0.116		25.50
CF030000500-1*	**3.000**		3.000		0.500	0.156			0.146		25.50
CF030000562*	**3.000**		3.000		0.562	0.125			0.116		25.50
CF030000625	**3.000**		3.000		0.625	0.156			0.146		26.44
CF030000750	**3.000**		3.000		0.750	0.187			0.178		50.02
CF031250625*	**3.125**		3.125		0.625	0.156			0.146		27.04
CF032500625	**3.250**		3.250		0.625	0.156			0.146		29.76
CF032500625-1*	**3.250**		3.250		0.625	0.187			0.178		31.19
CF032500750*	**3.250**		3.250		0.750	0.156			0.146		31.19
CF033120625*	**3.312**		3.312		0.625	0.187			0.178		71.73
CF033750625*	**3.375**		3.375		0.625	0.156			0.146		77.03
CF035000500*	**3.500**		3.500		0.500	0.125			0.116		31.19
CF035000562*	**3.500**		3.500		0.562	0.125			0.116		29.60
CF035000625	**3.500**		3.500		0.625	0.156			0.146		29.60
CF035000750	**3.500**		3.500		0.750	0.187			0.178		40.93
CF036250625	**3.625**		3.625		0.625	0.156			0.146		45.10
CF037500625*	**3.750**		3.750		0.625	0.125			0.116		37.78
CF037500750*	**3.750**		3.750		0.750	0.187			0.178		35.35
CF038750625	**3.875**		3.875		0.625	0.156			0.146		74.90
CF038750750*	**3.875**		3.875		0.750	0.156			0.146		74.90
CF039370500*	**3.937**		3.937		0.500	0.156			0.146		74.90
CF040000500*	**4.000**		4.000		0.500	0.125			0.116		61.30

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	t	Housing Dimensions d2	Tol.	t1	Tol.	$
CF040000500-1*	**4.000**	+.004 -.000	4.000		0.500	0.187			0.178	+.003 -.000	61.30
CF040000625	**4.000**		4.000		0.625	0.156			0.146		37.34
CF040000750	**4.000**		4.000		0.750	0.156			0.146		43.73
CF040000750-1*	**4.000**		4.000		0.750	0.187			0.178		43.73
CF041250750*	**4.125**		4.125		0.750	0.187			0.178		81.70
CF042500625	**4.250**		4.250		0.625	0.156			0.146		84.40
CF042500750*	**4.250**		4.250		0.750	0.187			0.178		44.37
CF045000562*	**4.500**		4.500		0.562	0.125			0.116		47.91
CF045000625	**4.500**		4.500		0.625	0.156			0.146		47.91
CF045000750	**4.500**		4.500		0.750	0.156			0.146		54.13
CF046250625*	**4.625**		4.625		0.625	0.156			0.146		84.77
CF047500625	**4.750**		4.750		0.625	0.156			0.146		89.33
CF047500750*	**4.750**		4.750		0.750	0.187			0.178		89.33
CF048750625*	**4.875**		4.875		0.625	0.156			0.146		84.77
CF050000500	**5.000**		5.000		0.500	0.187			0.178		54.13
CF050000750	**5.000**		5.000		0.750	0.187			0.178		51.52
CF050001000*	**5.000**		5.000		1.000	0.187			0.178		55.93
CF052500750*	**5.250**		5.250		0.750	0.187			0.178		52.47
CF055000750*	**5.500**		5.500		0.750	0.187			0.178		53.45
CF057500750*	**5.750**		5.750		0.750	0.187			0.178		75.99
CF058750750*	**5.875**		5.875		0.750	0.187			0.178		81.88
CF060000750	**6.000**		6.000		0.750	0.125			0.116		81.85
CF060000750-1	**6.000**		6.000		0.750	0.187			0.178		75.99
CF060001000	**6.000**		6.000		1.000	0.187			0.178		86.66
CF060001250*	**6.000**		6.000		1.250	0.187			0.178		86.66
CF061250750*	**6.125**		6.125		0.750	0.187			0.178		88.00
CF062500750	**6.250**		6.250		0.750	0.187			0.178		89.40
CF063750750*	**6.375**		6.375		0.750	0.187			0.178		90.12
CF065000750*	**6.500**		6.500		0.750	0.187			0.178		84.97
CF065001125*	**6.500**		6.500		1.125	0.187			0.178		84.97
CF065001500*	**6.500**		6.500		1.500	0.187			0.178		84.97
CF067500750*	**6.750**	+.005 -.000	6.750		0.750	0.187			0.178		91.69
CF070000750	**7.000**		7.000		0.750	0.187			0.178		91.69
CF070001500*	**7.000**		7.000		1.500	0.187			0.178		91.69
CF072501000*	**7.250**		7.250		1.000	0.187			0.178		105.35
CF075000750*	**7.500**		7.500		0.750	0.187			0.178		79.64
CF075001000*	**7.500**		7.500		1.000	0.187			0.178		108.57
CF077500750*	**7.750**		7.750		0.750	0.187			0.178		81.41
CF080000750	**8.000**		8.000		0.750	0.187			0.178		113.24
CF080001000	**8.000**		8.000		1.000	0.187			0.178		108.49
CF080001000-1*	**8.000**		8.000		1.000	0.250			0.241		160.73
CF080001250*	**8.000**		8.000		1.250	0.187			0.178		160.73
CF085001000*	**8.500**		8.500		1.000	0.187			0.178		169.84
CF090000750*	**9.000**		9.000		0.750	0.187			0.178		170.61
CF090001000*	**9.000**		9.000		1.000	0.187			0.178		160.32
CF095001000*	**9.500**		9.500		1.000	0.187			0.178		180.88

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CF series - NEOFAB

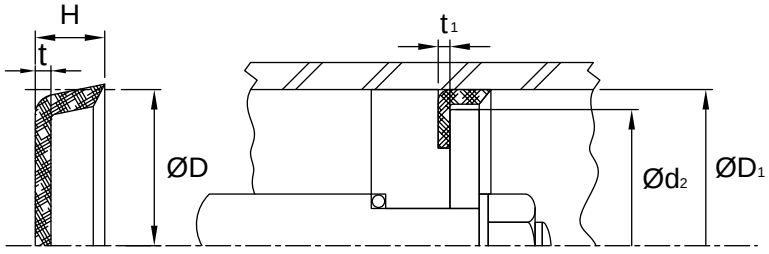
Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	Tol.		D	d	H	t	d2	Tol.	t1	Tol.	
CF097501000*	**9.750**	+.005 -.000	9.750		1.000	0.187			0.178	+.003 -.000	180.88
CF100001000	**10.000**		10.000		1.000	0.187			0.178		244.03
CF102501000*	**10.250**		10.250		1.000	0.187			0.178		194.58
CF105001250*	**10.500**		10.500		1.250	0.250			0.241		205.02
CF110001000*	**11.000**	+.006 -.000	11.000		1.000	0.187			0.178		234.75
CF110001000-1*	**11.000**		11.000		1.000	0.250			0.241		234.75
CF115001000*	**11.500**		11.500		1.000	0.187			0.178		265.65
CF120001000	**12.000**		12.000		1.000	0.187			0.178		240.87
CF120001250*	**12.000**		12.000		1.250	0.250			0.241		269.96
CF122501000*	**12.250**		12.250		1.000	0.187			0.178		269.96
CF140001250*	**14.000**		14.000		1.250	0.250			0.241		468.05
CF160001500*	**16.000**		16.000		1.500	0.250			0.241		553.12
CF165001500*	**16.500**		16.500		1.500	0.312			0.303		467.76
CF180001250*	**18.000**		18.000		1.250	0.250			0.241		470.71
CF200001250*	**20.000**		20.000		1.250	0.187			0.178		575.99

ECF - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric	-40°F to +250°F (-40°C to +121°C)	≤3000 psi (≤210 bar)	<3 ft/s (0.9 m/s)

CENTER HOLE OPTIONAL



These fabric-reinforced cups are primarily used on hydraulic piston heads. plungers or rams. Easy to install with simple tooling, low cost and good service life are reasons why these seals are still common in the industry.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions		$
	Tol.		D	d	H	t	DEL	EDBRO	
ECF020000750*	**2.000**	+.003 -.000	2.000	0.625	0.750	0.218	DEL-4	ARC-4	22.98
ECF026250750*	**2.625**		2.625	0.875	0.750	0.218	DEL-5	ARC-5	42.36

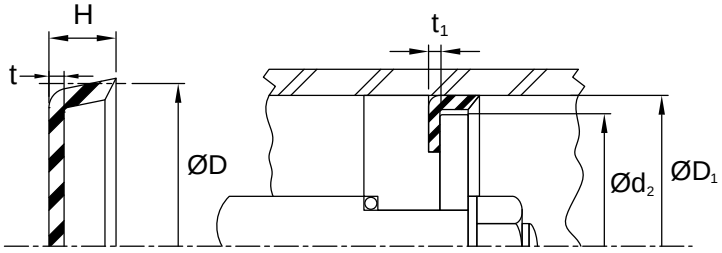
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions		$
	Tol.		D	d	H	t	DEL	EDBRO	
ECF032500750*	**3.250**	+.004 -.000	3.250	1.000	0.750	0.218	DEL-7	ARC-7	45.65
ECF038750750*	**3.875**		3.875	1.125	0.750	0.218	DEL-13	ARC-13	52.19
ECF047500750*	**4.750**		4.750	1.250	0.750	0.218	DEL-15	ARC-15	62.76
ECF057500750*	**5.750**		5.750	1.500	0.750	0.218	DEL-23/1	ARC-23/1	74.51

CH - Piston seals - Inch



CENTER HOLE OPTIONAL



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile	-40°F to +250°F (-40°C to +121°C)	≤150 psi (≤10 bar)	<3 ft/s (0.9 m/s)

Similar to the **CF-style**, these homogeneous cups are limited in use to pneumatic or low-pressure hydraulic service.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	Tol.		D	d	H	t	d2	Tol.	t1	Tol.	
CH005000500	**0.500**	+.003 -.000	0.500		0.500	0.031	0.250	+.016 -.016	0.085	+.003 -.000	5.47
CH005620250*	**0.562**		0.562		0.250	0.093	0.312		0.085		5.91
CH006250500*	**0.625**		0.625		0.500	0.093	0.375		0.085		6.42
CH007500250	**0.750**		0.750		0.250	0.093	0.500		0.085		6.69
CH007500250-1*	**0.750**		0.750		0.250	0.109	0.500		0.101		6.69
CH007500500	**0.750**		0.750		0.500	0.125	0.375		0.116		6.69
CH009370500	**0.937**		0.937		0.500	0.125	0.562		0.116		11.55
CH010000250	**1.000**		1.000		0.250	0.062	0.750		0.054		7.90
CH010000500	**1.000**		1.000		0.500	0.125	0.625		0.116		11.81
CH011250500*	**1.125**		1.125		0.500	0.125	0.750		0.116		11.91
CH012500250	**1.250**		1.250		0.250	0.062	1.000		0.054		14.95
CH012500500	**1.250**		1.250		0.500	0.125	0.875		0.116		7.98
CH013750437	**1.375**		1.375		0.437	0.093	1.125		0.085		8.53

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CH series - NBR 80/90A

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	t	Housing Dimensions d2	Tol.	t1	Tol.	$
CH013750500*	**1.375**	+.003 -.000	1.375		0.500	0.125	1.000	+.016 -.016	0.116	+.003 -.000	8.14
CH014370375*	**1.437**		1.437		0.375	0.125	1.062		0.116		8.53
CH015000375	**1.500**		1.500		0.375	0.093	1.250		0.085		8.53
CH015000500	**1.500**		1.500		0.500	0.125	1.125		0.116		8.14
CH016250500*	**1.625**		1.625		0.500	0.125	1.250		0.116		7.90
CH016870500*	**1.687**		1.687		0.500	0.187	1.187		0.178		8.80
CH017500500	**1.750**		1.750		0.500	0.125	1.375		0.116		8.66
CH018750500	**1.875**		1.875		0.500	0.125	1.500		0.116		15.36
CH020000375	**2.000**		2.000		0.375	0.125	1.625		0.116		9.48
CH020000500	**2.000**		2.000		0.500	0.125	1.625		0.116		9.04
CH020000625*	**2.000**		2.000		0.625	0.156	1.500		0.146		9.48
CH021870375*	**2.187**		2.187		0.375	0.125	1.812		0.116		10.02
CH022500500	**2.250**		2.250		0.500	0.125	1.875		0.116		9.72
CH023750500	**2.375**		2.375		0.500	0.125	2.000		0.116		10.02
CH025000375*	**2.500**		2.500		0.375	0.125	2.125		0.116		11.67
CH025000437*	**2.500**		2.500		0.437	0.125	2.125		0.116		11.67
CH025000500	**2.500**		2.500		0.500	0.125	2.125		0.116		10.27
CH025000562*	**2.500**		2.500		0.562	0.125	2.125		0.116		11.67
CH025000625*	**2.500**		2.500		0.625	0.125	2.125		0.116		11.67
CH025000625-1*	**2.500**		2.500		0.625	0.156	2.000		0.146		11.67
CH026250500	**2.625**		2.625		0.500	0.125	2.125		0.116		10.55
CH027500500	**2.750**		2.750		0.500	0.125	2.375		0.116		11.68
CH028750500	**2.875**		2.875		0.500	0.125	2.500		0.116		11.16
CH030000500	**3.000**	+.004 -.000	3.000		0.500	0.125	2.625		0.116		11.77
CH030000500-1*	**3.000**		3.000		0.500	0.156	2.500		0.146		11.77
CH030000531*	**3.000**		3.000		0.531	0.093	2.750		0.085		11.77
CH030000625	**3.000**		3.000		0.625	0.156	2.500		0.146		11.79
CH031250625*	**3.125**		3.125		0.625	0.156	2.625		0.146		11.03
CH032500500*	**3.250**		3.250		0.500	0.125	2.875		0.116		24.82
CH032500625	**3.250**		3.250		0.625	0.156	2.750		0.146		13.57
CH035000500	**3.500**		3.500		0.500	0.125	3.125		0.116		13.28
CH035000625*	**3.500**		3.500		0.625	0.125	3.125		0.116		25.75
CH035000625-1*	**3.500**		3.500		0.625	0.156	3.000		0.146		23.82
CH035000750*	**3.500**		3.500		0.750	0.187	3.000		0.178		13.28
CH036250625	**3.625**		3.625		0.625	0.156	3.125		0.146		13.27
CH037500500	**3.750**		3.750		0.500	0.125	3.375		0.116		14.93
CH037500625*	**3.750**		3.750		0.625	0.156	3.250		0.146		24.63
CH037500750*	**3.750**		3.750		0.750	0.187	3.250		0.178		14.93
CH038750625	**3.875**		3.875		0.625	0.125	3.500		0.116		14.93
CH040000500	**4.000**		4.000		0.500	0.125	3.625		0.116		30.09
CH040000625	**4.000**		4.000		0.625	0.156	3.500		0.146		14.85
CH040000750*	**4.000**		4.000		0.750	0.125	3.625		0.116		46.45
CH040000750-1*	**4.000**		4.000		0.750	0.187	3.500		0.178		15.20
CH042500625*	**4.250**		4.250		0.625	0.156	3.750		0.146		16.41
CH045000625	**4.500**		4.500		0.625	0.125	4.125		0.116		27.14
CH045000625-1*	**4.500**		4.500		0.625	0.156	4.000		0.146		25.15

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Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	t	Housing Dimensions d2	Tol.	t1	Tol.	$
CH046250625*	**4.625**	+.004 -.000	4.625		0.625	0.125	4.250	+.016 -.016	0.116	+.003 -.000	20.01
CH047500625*	**4.750**		4.750		0.625	0.156	4.250		0.146		19.62
CH047500750	**4.750**		4.750		0.750	0.156	4.250		0.146		21.25
CH050000625*	**5.000**		5.000		0.625	0.125	4.625		0.116		21.83
CH050000625-1*	**5.000**		5.000		0.625	0.187	4.500		0.178		35.42
CH050000750	**5.000**		5.000		0.750	0.187	4.500		0.178		30.16
CH051250750	**5.125**		5.125		0.750	0.187	4.625		0.178		50.66
CH052500750	**5.250**		5.250		0.750	0.187	4.750		0.178		26.83
CH055000750*	**5.500**		5.500		0.750	0.187	5.000		0.178		24.02
CH057500750*	**5.750**		5.750		0.750	0.187	5.250		0.178		22.05
CH058750750*	**5.875**		5.875		0.750	0.156	5.375		0.146		29.86
CH060000750*	**6.000**		6.000		0.750	0.156	5.500		0.146		28.09
CH060000750-1	**6.000**		6.000		0.750	0.187	5.500		0.178		48.79
CH060000875*	**6.000**		6.000		0.875	0.125	5.625		0.116		30.49
CH060001000	**6.000**		6.000		1.000	0.187	5.500		0.178		37.84
CH062500750*	**6.250**		6.250		0.750	0.187	5.750		0.178		29.00
CH065000750	**6.500**		6.500		0.750	0.187	6.000		0.178		30.80
CH070000625*	**7.000**	+.005 -.000	7.000		0.625	0.125	6.625		0.116		38.15
CH070000750*	**7.000**		7.000		0.750	0.187	6.500		0.178		40.25
CH075000875*	**7.500**		7.500		0.875	0.156	7.000		0.146		50.77
CH080000625*	**8.000**		8.000		0.625	0.125	7.625		0.116		51.96
CH080000750*	**8.000**		8.000		0.750	0.156	7.500		0.146		51.97
CH080000750-1	**8.000**		8.000		0.750	0.187	7.500		0.178		82.17
CH080001000*	**8.000**		8.000		1.000	0.187	7.500		0.178		51.62
CH090000750*	**9.000**		9.000		0.750	0.187	8.500		0.178		60.66
CH090001000*	**9.000**		9.000		1.000	0.187	8.500		0.178		58.07
CH095001000*	**9.500**		9.500		1.000	0.187	9.000		0.178		60.83
CH100000750	**10.000**		10.000		0.750	0.187	9.500		0.178		61.25
CH100001000	**10.000**		10.000		1.000	0.187	9.500		0.178		102.06
CH102501000*	**10.250**		10.250		1.000	0.187	9.750		0.178		163.20
CH110001000*	**11.000**		11.000		1.000	0.187	10.500		0.178		89.60
CH120000750*	**12.000**	+.006 -.000	12.000		0.750	0.187	11.500		0.178		75.16
CH120001000*	**12.000**		12.000		1.000	0.187	11.500		0.178		103.74
CH130000750*	**13.000**		13.000		0.750	0.187	12.500		0.178		111.04
CH140000812*	**14.000**		14.000		0.812	0.187	13.500		0.178		205.55
CH140001000*	**14.000**		14.000		1.000	0.187	13.500		0.178		106.46
CH150001000*	**15.000**		15.000		1.000	0.187	14.500		0.178		123.22
CH160000750	**16.000**		16.000		0.750	0.187	15.500		0.178		295.21
CH180000750*	**18.000**		18.000		0.750	0.250	17.375		0.241		133.36

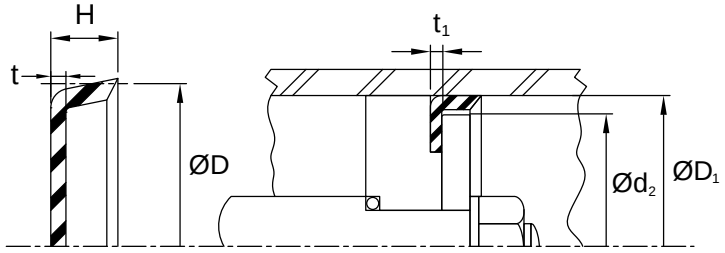
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CS - Piston Cups - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-65°F to +200°F (-54°C to +93°C)	≤1000 psi (≤70 bar)	<3 ft/s (0.9 m/s)

CENTER HOLE OPTIONAL



These polyurethane cups are primarily used on hydraulic piston heads. plungers or rams. Easy to install with simple tooling, low cost and good service life are reasons why these seals are still common in the industry.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CS00437-250*	**0.437**	+.003 -.000	0.437		0.250	0.093	0.187	+.016 -.016	0.085	+.003 -.000	11.72
CS00500-250*	**0.500**		0.500		0.250	0.093	0.250		0.085		11.72
CS00750-250*	**0.750**		0.750		0.250	0.093	0.500		0.085		11.72
CS00750-375*	**0.750**		0.750		0.375	0.093	0.500		0.085		11.72
CS00875-250	**0.875**		0.875		0.250	0.093	0.625		0.085		11.72
CS00875-375*	**0.875**		0.875		0.375	0.093	0.625		0.085		17.29
CS01000-500	**1.000**		1.000		0.500	0.125	0.625		0.116		12.22
CS01062-500*	**1.062**		1.062		0.500	0.125	0.687		0.116		13.20
CS01125-500*	**1.125**		1.125		0.500	0.125	0.750		0.116		13.25
CS01250-500	**1.250**		1.250		0.500	0.125	0.875		0.116		14.57
CS01375-437*	**1.375**		1.375		0.437	0.125	1.000		0.116		15.47
CS01375-500*	**1.375**		1.375		0.500	0.125	1.000		0.116		15.47
CS01437-375*	**1.437**		1.437		0.375	0.125	1.062		0.116		15.84
CS01437-500	**1.437**		1.437		0.500	0.125	1.062		0.116		16.32
CS01500-500*	**1.500**		1.500		0.500	0.125	1.125		0.116		17.36
CS01625-375*	**1.625**		1.625		0.375	0.187	1.125		0.178		18.76
CS01625-500*	**1.625**		1.625		0.500	0.125	1.250		0.116		18.76
CS01750-500*	**1.750**		1.750		0.500	0.125	1.375		0.116		20.11
CS01875-500*	**1.875**		1.875		0.500	0.125	1.500		0.116		21.65
CS01937-500*	**1.937**		1.937		0.500	0.125	1.562		0.116		22.13
CS02000-500	**2.000**		2.000		0.500	0.125	1.625		0.116		23.00
CS02125-500*	**2.125**		2.125		0.500	0.125	1.750		0.116		24.52

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	t	Housing Dimensions d2	Tol.	t1	Tol.	$
CS02250-500*	**2.250**	+.003 -.000	2.250		0.500	0.125	1.875	+.016 -.016	0.116	+.003 -.000	25.96
CS02312-500*	**2.312**		2.312		0.500	0.125	1.937		0.116		26.65
CS02375-500*	**2.375**		2.375		0.500	0.125	2.000		0.116		27.36
CS02500-500	**2.500**		2.500		0.500	0.125	2.125		0.116		28.78
CS02562-500*	**2.562**		2.562		0.500	0.125	2.187		0.116		29.75
CS02562-625*	**2.562**		2.562		0.625	0.187	2.062		0.178		29.16
CS02625-500*	**2.625**		2.625		0.500	0.125	2.250		0.116		29.84
CS02750-625*	**2.750**		2.750		0.625	0.187	2.250		0.178		31.72
CS02875-500*	**2.875**		2.875		0.500	0.125	2.500		0.116		33.13
CS02875-625*	**2.875**		2.875		0.625	0.187	2.375		0.178		33.13
CS03000-625*	**3.000**	+.004 -.000	3.000		0.625	0.187	2.500		0.178		34.58
CS03250-500*	**3.250**		3.250		0.500	0.125	2.875		0.116		36.19
CS03250-625*	**3.250**		3.250		0.625	0.187	2.750		0.178		36.19
CS03375-625*	**3.375**		3.375		0.625	0.187	2.875		0.178		37.32
CS03500-625	**3.500**		3.500		0.625	0.187	3.000		0.178		40.09
CS03750-625*	**3.750**		3.750		0.625	0.187	3.250		0.178		43.18
CS04000-625	**4.000**		4.000		0.625	0.187	3.500		0.178		85.26
CS04125-625*	**4.125**		4.125		0.625	0.187	3.625		0.178		46.94
CS04250-500*	**4.250**		4.250		0.500	0.187	3.750		0.178		48.66
CS04250-625*	**4.250**		4.250		0.625	0.187	3.750		0.178		48.66
CS04500-625*	**4.500**		4.500		0.625	0.187	4.000		0.178		51.46
CS04750-750*	**4.750**		4.750		0.750	0.187	4.250		0.178		54.25
CS05000-625	**5.000**		5.000		0.625	0.187	4.500		0.178		57.14
CS05000-750	**5.000**		5.000		0.750	0.187	4.500		0.178		82.19
CS05250-750*	**5.250**		5.250		0.750	0.187	4.750		0.178		58.38
CS05500-750*	**5.500**		5.500		0.750	0.187	5.000		0.178		62.77
CS05750-750*	**5.750**		5.750		0.750	0.187	5.250		0.178		65.35
CS06000-1000*	**6.000**		6.000		1.000	0.187	5.500		0.178		68.53
CS06000-625	**6.000**		6.000		0.625	0.187	5.500		0.178		68.53
CS06000-750	**6.000**		6.000		0.750	0.187	5.500		0.178		68.53
CS06500-750*	**6.500**		6.500		0.750	0.187	6.000		0.178		73.01
CS06750-750*	**6.750**	+.005 -.000	6.750		0.750	0.187	6.250		0.178		75.79
CS07000-750*	**7.000**		7.000		0.750	0.187	6.500		0.178		78.49
CS07250-750*	**7.250**		7.000		0.750	0.187	6.750		0.178		67.14
CS07500-1000*	**7.500**		7.500		1.000	0.187	7.000		0.178		111.77
CS08000-1000*	**8.000**		8.000		1.000	0.187	7.500		0.178		89.68
CS08000-750	**8.000**		8.000		0.750	0.187	7.500		0.178		89.68
CS08500-1000*	**8.500**		8.500		1.000	0.187	8.000		0.178		94.96
CS09000-1000*	**9.000**		9.000		1.000	0.187	8.500		0.178		126.42
CS09500-1000*	**9.500**		9.500		1.000	0.187	9.000		0.178		106.12
CS10000-1000*	**10.000**		10.000		1.000	0.187	9.500		0.178		111.92
CS10000-1500*	**10.000**		10.000		1.500	0.187	9.500		0.178		111.92
CS10000-750	**10.000**		10.000		0.750	0.187	9.500		0.178		111.92
CS10250-1250*	**10.250**		10.250		1.250	0.187	9.750		0.178		122.89
CS11000-1250*	**11.000**	+.006 -.000	11.000		1.250	0.187	10.500		0.178		158.48
CS11500-1250*	**11.500**		11.500		1.250	0.187	11.000		0.178		181.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



CS series - AU 90A

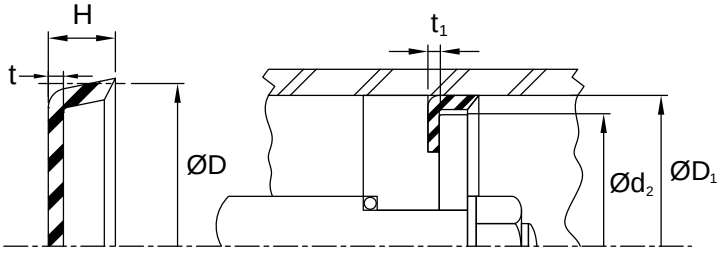
Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CS12000-1250*	**12.000**	+.006 -.000	12.000		1.250	0.187	11.500	+.016 -.016	0.178	+.003 -.000	209.06
CS12000-750*	**12.000**		12.000		0.750	0.187	11.500		0.178		206.77
CS13000-1000*	**13.000**		13.000		1.000	0.187	12.500		0.178		223.21
CS13000-1250*	**13.000**		13.000		1.250	0.187	12.500		0.178		223.21
CS13000-750*	**13.000**		13.000		0.750	0.187	12.500		0.178		220.76
CS14000-1250*	**14.000**		14.000		1.250	0.187	13.500		0.178		234.66
CS16000-1250*	**16.000**		16.000		1.250	0.187	15.500		0.178		268.00
CS16000-812*	**16.000**		16.000		0.812	0.187	15.500		0.178		268.00
CS17500-1000*	**17.500**		17.500		1.000	0.187	17.000		0.178		318.39

CT - Piston Cups - Inch



CENTER HOLE OPTIONAL

Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-65°F to +200°F (-54°C to +93°C)	≤1000 psi (≤70 bar)	<3 ft/s (0.9 m/s)



These polyurethane cups are primarily used on hydraulic piston heads. plungers or rams. Easy to install with simple tooling, low cost and good service life are reasons why these seals are still common in the industry.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CT00437-187*	**0.437**	+.003 -.000	0.437		0.187	0.093	0.187	+.016 -.016	0.085	+.003 -.000	8.22
CT00437-250*	**0.437**		0.437		0.250	0.062	0.187		0.054		8.22
CT00437-375*	**0.437**		0.437		0.375	0.062	0.187		0.054		8.22
CT00500-375*	**0.500**		0.500		0.375	0.093	0.250		0.085		8.22
CT00625-375*	**0.625**		0.625		0.375	0.093	0.375		0.085		8.36
CT00750-375*	**0.750**		0.750		0.375	0.093	0.500		0.085		8.55

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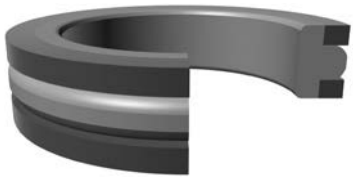
Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CT01000-437	**1.000**	+.003 -.000	1.000		0.437	0.093	0.750	+.016 -.016	0.085	+.003 -.000	8.67
CT01125-437*	**1.125**		1.125		0.437	0.093	0.875		0.085		9.96
CT01250-437*	**1.250**		1.250		0.437	0.093	1.000		0.085		10.79
CT01375-437*	**1.375**		1.375		0.437	0.093	1.125		0.085		11.43
CT01437-437*	**1.437**		1.437		0.437	0.093	1.187		0.085		12.20
CT01500-437*	**1.500**		1.500		0.437	0.093	1.250		0.085		12.84
CT01625-437*	**1.625**		1.625		0.437	0.093	1.375		0.085		13.97
CT01750-437*	**1.750**		1.750		0.437	0.093	1.500		0.085		14.99
CT01875-437*	**1.875**		1.875		0.437	0.093	1.625		0.085		16.13
CT01937-437*	**1.937**		1.937		0.437	0.093	1.687		0.085		16.76
CT02000-312*	**2.000**		2.000		0.312	0.125	1.625		0.116		17.22
CT02000-437	**2.000**		2.000		0.437	0.125	1.625		0.116		17.22
CT02000-500	**2.000**		2.000		0.500	0.125	1.625		0.116		17.22
CT02125-500*	**2.125**		2.125		0.500	0.125	1.750		0.116		18.21
CT02250-500*	**2.250**		2.250		0.500	0.125	1.875		0.116		19.31
CT02375-500*	**2.375**		2.375		0.500	0.125	2.000		0.116		20.48
CT02500-500	**2.500**		2.500		0.500	0.125	2.125		0.116		23.78
CT02625-500*	**2.625**		2.625		0.500	0.125	2.250		0.116		22.13
CT02750-500*	**2.750**		2.750		0.500	0.125	2.375		0.116		23.52
CT02875-500*	**2.875**		2.875		0.500	0.125	2.500		0.116		25.14
CT02875-625*	**2.875**		2.875		0.625	0.125	2.500		0.116		22.46
CT03000-625	**3.000**	+.004 -.000	3.000		0.625	0.125	2.625		0.116		27.02
CT03250-625*	**3.250**		3.250		0.625	0.125	2.875		0.116		27.72
CT03375-625*	**3.375**		3.375		0.625	0.125	3.000		0.116		28.83
CT03500-625*	**3.500**		3.500		0.625	0.125	3.125		0.116		29.75
CT03750-625*	**3.750**		3.750		0.625	0.125	3.375		0.116		32.00
CT04000-437*	**4.000**		4.000		0.437	0.125	3.625		0.116		35.24
CT04000-625*	**4.000**		4.000		0.625	0.125	3.625		0.116		35.24
CT04250-625*	**4.250**		4.250		0.625	0.125	3.875		0.116		36.26
CT04500-625*	**4.500**		4.500		0.625	0.125	4.125		0.116		38.33
CT04750-750*	**4.750**		4.750		0.750	0.125	4.375		0.116		40.40
CT05000-562*	**5.000**		5.000		0.562	0.125	4.625		0.116		47.03
CT05000-750*	**5.000**		5.000		0.750	0.125	4.625		0.116		47.03
CT05250-750*	**5.250**		5.250		0.750	0.125	4.875		0.116		53.61
CT05500-750*	**5.500**		5.500		0.750	0.125	5.125		0.116		60.32
CT06000-750*	**6.000**		6.000		0.750	0.125	5.625		0.116		102.90
CT06500-750*	**6.500**		6.500		0.750	0.125	6.125		0.116		85.16
CT07000-750*	**7.000**		7.000		0.750	0.125	6.625		0.116		93.21
CT07500-750*	**7.500**		7.500		0.750	0.125	7.125		0.116		95.63
CT08000-1000*	**8.000**	+.005 -.000	8.000		1.000	0.125	7.625		0.116		102.48
CT08750-1000*	**8.750**		8.750		1.000	0.125	8.375		0.116		111.54
CT09000-1000*	**9.000**		9.000		1.000	0.125	8.625		0.116		121.54
CT10000-1000*	**10.000**		10.000		1.000	0.125	9.625		0.116		133.13
CT11000-1250*	**11.000**	+.006 -.000	11.000		1.250	0.187	10.500		0.178		192.75
CT11500-1250*	**11.500**		11.500		1.250	0.187	10.000		0.178		223.69
CT12000-1250*	**12.000**		12.000		1.250	0.187	11.500		0.178		254.41

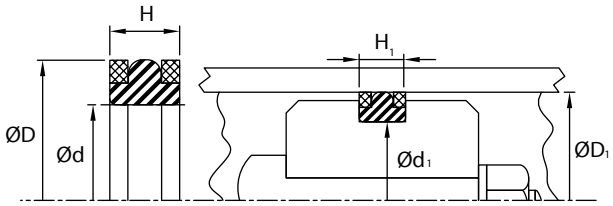
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CT series - AU 90A

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	t	Housing Dimensions d2	Tol.	t1	Tol.	$
CT12500-1250*	**12.500**	+.006 -.000	12.500		1.250	0.187	12.000	+.016 -.016	0.178	+.003 -.000	263.03
CT13000-1000*	**13.000**		13.000		1.000	0.187	12.500		0.178		271.58
CT13000-1250*	**13.000**		13.000		1.250	0.187	12.500		0.178		271.58
CT13000-750*	**13.000**		13.000		0.750	0.187	12.500		0.178		271.58
CT13250-1250*	**13.250**		13.250		1.250	0.187	12.750		0.178		278.81
CT14000-1250*	**14.000**		14.000		1.250	0.187	13.500		0.178		291.62
CT15000-1250*	**15.000**		15.000		1.250	0.187	14.500		0.178		312.56
CT16000-1250*	**16.000**		16.000		1.250	0.187	15.500		0.178		333.14
CT16000-812*	**16.000**		16.000		0.812	0.187	15.500		0.178		333.14

TP, TP-1, TP-2 - Piston seals - Inch





Standard Material	Temperature Range	Pressure * Range	Surface Speed
Nitrile/Nylon	-72°F to +250°F (-60°C to +120°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)

***Pressure range** without wear rings

Piston **T-Seals** are designed to retrofit O'Rings in typically no-back-up standard grooves. Their flat base and positively actuated anti-extrusion rings provide improved stability and extrusion resistance. Piston **T-Seals** eliminate the spiral or twisting failure that can occur when using O'Rings against dynamic surfaces. Certain sizes are also available for one and two back-up O'Ring groove designs.

TP-style for no back-up O'Ring gland (Standard Offering)
TP-1-style for single back-up O'Ring gland
TP-2-style for two back-up O'Ring gland

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
TP-106*	**0.375**	+.003 -.000	0.375	0.187		0.375	+.003 -.000	0.190	+.002 -.000	0.150	+.005 -.000	7.01
TP-108*	**0.437**		0.437	0.250		0.437		0.252		0.150		7.52
TP-109	**0.500**		0.500	0.312		0.500		0.315		0.150		7.69
TP-203	**0.562**		0.562	0.312		0.562		0.317		0.185		8.05
TP-204	**0.625**		0.625	0.375		0.625		0.380		0.185		8.64

TP, TP-1, TP-2 series - NBR/NYLON

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
TP-205*	**0.687**	+.003 -.000	0.687	0.437		0.687	+.003 -.000	0.442	+.002 -.000	0.185	+.005 -.000	9.09
TP-206*	**0.750**		0.750	0.500		0.750		0.505		0.185		9.71
TP-207	**0.812**		0.812	0.562		0.812		0.567		0.185		10.02
TP-208	**0.875**		0.875	0.625		0.875		0.630		0.185		10.58
TP-209*	**0.937**		0.937	0.687		0.937		0.692		0.185		11.20
TP-210	**1.000**		1.000	0.750		1.000		0.756		0.185		11.78
TP-211	**1.062**		1.062	0.812		1.062		0.818		0.185		14.33
TP-212	**1.125**		1.125	0.875		1.125		0.881		0.185		10.97
TP-213*	**1.187**		1.187	0.937		1.187		0.943		0.185		14.33
TP-214	**1.250**		1.250	1.000		1.250		1.006		0.185		12.46
TP-215	**1.312**		1.312	1.062		1.312		1.068		0.185		7.58
TP-216	**1.375**		1.375	1.125		1.375		1.131		0.185		10.97
TP-217	**1.437**		1.437	1.187		1.437		1.193		0.185		14.33
TP-218	**1.500**		1.500	1.250		1.500		1.256		0.185		9.74
TP-218/L*	**1.500**		1.500	1.250		1.500		1.256		0.185		15.54
TP-218/V*	**1.500**		1.500	1.250		1.500		1.256		0.185		27.66
TP-218-2/L	**1.500**		1.500	1.250		1.500		1.256		0.304	+.010/-.000	15.47
TP-219*	**1.562**		1.562	1.312		1.562		1.318		0.185	+.005 -.000	12.14
TP-220	**1.625**		1.625	1.375		1.625		1.381		0.185		12.46
TP-222	**1.750**		1.750	1.500		1.750		1.506		0.185		10.54
TP-222-1	**1.750**		1.750	1.500		1.750		1.506		0.235	+.010/-.000	25.42
TP-325	**1.875**		1.875	1.500		1.875		1.502		0.280	+.005 -.000	14.33
TP-326/L	**2.000**		2.000	1.625		2.000		1.627		0.280		10.98
TP-326/V*	**2.000**		2.000	1.625		2.000		1.627		0.280		102.22
TP-326-1	**2.000**		2.000	1.625		2.000		1.627		0.334	+.010/-.000	25.42
TP-327	**2.125**		2.125	1.750		2.125		1.752		0.280	+.005 -.000	11.53
TP-328	**2.250**		2.250	1.875		2.250		1.877		0.280		12.24
TP-328-1*	**2.250**		2.250	1.875		2.250		1.877		0.334	+.010 -.000	27.12
TP-328-2/L	**2.250**		2.250	1.875		2.250		1.877		0.424		33.83
TP-329	**2.375**		2.375	2.000		2.375		2.002		0.280	+.005 -.000	12.87
TP-330/L	**2.500**		2.500	2.125		2.500		2.127		0.280		13.59
TP-330-1	**2.500**		2.500	2.125		2.500		2.127		0.334	+.010 -.000	47.40
TP-330-2/L	**2.500**		2.500	2.125		2.500		2.127		0.424		35.42
TP-331	**2.625**		2.625	2.250		2.625		2.252		0.280	+.005 -.000	14.76
TP-332	**2.750**		2.750	2.375		2.750		2.377	+.003/-.001	0.280		14.94
TP-332-2*	**2.750**		2.375	2.750		2.750		2.377	+.002/-.000	0.424	+.010/-.000	35.00
TP-333	**2.875**		2.875	2.500		2.875		2.502	+.003/-.001	0.280	+.005/-.000	15.47
TP-333-1*	**2.875**		2.875	2.500		2.875		2.524	+.002/-.000	0.334	+.010 -.000	29.61
TP-333-2	**2.875**		2.875	2.500		2.875		2.502	+.003 -.001	0.424		35.56
TP-334	**3.000**	+.004 -.000	3.000	2.625		3.000	+.004 -.000	2.627		0.280	+.005/-.000	16.06
TP-334-1	**3.000**		3.000	2.625		3.000		2.627		0.334	+.010 -.000	44.44
TP-334-2/L	**3.000**		3.000	2.625		3.000		2.627		0.424		40.03
TP-335	**3.125**		3.125	2.750		3.125		2.752		0.280	+.005 -.000	16.76
TP-336	**3.250**		3.250	2.875		3.250		2.877		0.280		26.87
TP-338	**3.500**		3.500	3.125		3.500		3.128		0.280		20.45
TP-338-1	**3.500**		3.500	3.125		3.500		3.128		0.334	+.010/-.000	46.33

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



TP, TP-1, TP-2 series - NBR/NYLON

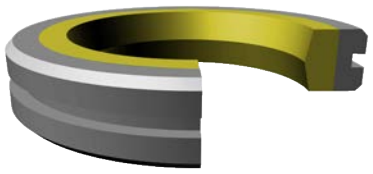
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
TP-338-2	**3.500**	+.004 -.000	3.500	3.125		3.500	+.004 -.000	3.128	+.003 -.001	0.424	+.010/-.000	43.28
TP-339	**3.625**		3.625	3.250		3.625		3.253		0.280	+.005 -.000	22.24
TP-340	**3.750**		3.750	3.375		3.750		3.378		0.280		23.12
TP-341	**3.875**		3.875	3.500		3.875		3.503		0.280		29.90
TP-342	**4.000**		4.000	3.625		4.000		3.628		0.280		25.77
TP-342-1	**4.000**		4.000	3.625		4.000		3.627		0.334	+.010 -.000	114.52
TP-342-2	**4.000**		4.000	3.625		4.000		3.628		0.424		51.08
TP-343	**4.125**		4.125	3.750		4.125		3.753		0.280	+.005 -.000	41.80
TP-343/L*	**4.125**		4.125	3.750		4.125		3.753		0.280		42.26
TP-344	**4.250**		4.250	3.875		4.250		3.878		0.280		29.67
TP-345*	**4.375**		4.375	4.000		4.375		4.003		0.280		31.42
TP-346	**4.500**		4.500	4.125		4.500		4.128		0.280		31.99
TP-346-1	**4.500**		4.500	4.125		4.500		4.128		0.334	+.010 -.000	121.69
TP-346-2	**4.500**		4.500	4.125		4.500		4.128		0.424		68.80
TP-347	**4.625**		4.625	4.250		4.625		4.253		0.280	+.005/-.001	39.07
TP-347-1*	**4.625**		4.625	4.250		4.625		4.253		0.334	+.010/-.000	84.97
TP-348	**4.750**		4.750	4.375		4.750		4.378	+.003 -.001	0.280	+.005 -.001	44.67
TP-348/L*	**4.750**		4.750	4.375		4.750		4.378		0.280		52.91
TP-348-2	**4.750**		4.750	4.375		4.750		4.378	+.010/-.000	0.424	+.010/-.000	74.02
TP-349	**4.875**		4.875	4.500		4.875		4.503	+.003 -.001	0.280	+.005 -.001	44.93
TP-350	**5.000**		5.000	4.625		5.000		4.629		0.280		46.68
TP-425/L	**5.000**		5.000	4.500		5.000		4.524		0.366		90.08
TP-425-1/L	**5.000**		5.000	4.500		5.000		4.524		0.475	+.010 -.000	101.61
TP-350-2	**5.000**		5.000	4.625		5.000		4.629		0.424		79.34
TP-425-2	**5.000**		5.000	4.500		5.000		4.524		0.579		107.05
TP-426	**5.125**		5.125	4.625		5.125		4.649		0.366	+.005 -.001	55.84
TP-427	**5.250**		5.250	4.750		5.250		4.774		0.366		51.12
TP-427-2	**5.250**		5.250	4.750		5.250		4.774		0.579	+.010/-.000	87.28
TP-428*	**5.375**		5.375	4.875		5.375		4.889		0.366	+.005 -.001	53.85
TP-429	**5.500**		5.500	5.000		5.500		5.024		0.366		56.16
TP-429-1	**5.500**		5.500	5.000		5.500		5.024		0.475	+.010 -.000	114.42
TP-429-2	**5.500**		5.500	5.000		5.500		5.024		0.579		118.70
TP-430*	**5.625**		5.625	5.125		5.625		5.149		0.366	+.005 -.001	58.09
TP-431	**5.750**		5.750	5.250		5.750		5.274		0.366		57.37
TP-432*	**5.875**		5.875	5.375		5.875		5.399		0.366		58.80
TP-433	**6.000**		6.000	5.500		6.000		5.524		0.366		61.98
TP-433-1*	**6.000**		6.000	5.500		6.000		5.524		0.475	+.010 -.000	117.75
TP-433-2/L*	**6.000**		6.000	5.500		6.000		5.524		0.579		136.20
TP-434*	**6.125**		6.125	5.625		6.125		5.649		0.366	+.005 -.001	65.47
TP-435	**6.250**		6.250	5.750		6.250		5.774		0.366		63.72
TP-435-1	**6.250**		6.250	5.750		6.250		5.774		0.475	+.010 -.000	133.83
TP-435-2/L*	**6.250**	+.005/-.000	6.250	5.750		6.250	+.005/-.000	5.774	+.004 -.002	0.579		161.96
TP-437	**6.500**	+.004 -.000	6.500	6.000		6.500	+.004 -.000	6.024		0.366	+.005/-.001	63.86
TP-437-1*	**6.500**		6.500	6.000		6.500		6.024	+.003/-.001	0.475	+.010/-.000	135.95
TP-438*	**6.750**	+.005 -.000	6.750	6.250		6.750	+.005 -.000	6.274	+.004 -.002	0.366	+.010 -.000	73.92
TP-439	**7.000**		7.000	6.500		7.000		6.524		0.366		74.15

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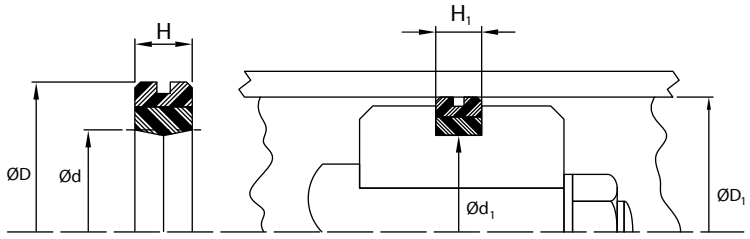
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
TP-439-1/L*	**7.000**	+.004 -.000	7.000	6.500		7.000	+.004 -.000	6.524	+.004 -.002	0.475	+.010 -.000	138.57
TP-439-2	**7.000**		7.000	6.500		7.000		6.524		0.579		129.53
TP-440	**7.250**		7.250	6.750		7.250		6.774		0.366	+.005 -.001	150.99
TP-441	**7.500**		7.500	7.000		7.500		7.024		0.366		81.04
TP-441-1*	**7.500**		7.500	7.000		7.500		7.024		0.475	+.010 -.000	110.73
TP-441-2*	**7.500**		7.500	7.000		7.500		7.024		0.579		94.99
TP-441.5*	**7.625**		7.625	7.125		7.625		7.149		0.366	+.005 -.001	298.37
TP-442*	**7.750**		7.750	7.250		7.750		7.274		0.366		88.82
TP-443	**8.000**		8.000	7.500		8.000		7.524		0.366		94.44
TP-443-1*	**8.000**		8.000	7.500		8.000		7.524		0.475	+.010 -.000	153.37
TP-443-2/AS	**8.000**		8.000	7.500		8.000		7.524		0.438		128.62
TP-443-2/L	**8.000**		8.000	7.500		8.000		7.524		0.579		159.62
TP-444*	**8.250**		8.250	7.750		8.250		7.774		0.366	+.005/-.001	100.92
TP-444-1*	**8.250**		8.250	7.750		8.250		7.774		0.475	+.010/-.000	172.00
TP-445	**8.500**		8.500	8.000		8.500		8.024		0.366	+.005 -.000	125.71
TP-446	**9.000**		9.000	8.500		9.000		8.524		0.366		119.06
TP-446-1	**9.000**		9.000	8.500		9.000		8.524		0.475	+.010/-.000	251.58
TP-446.5	**9.250**		9.250	8.750		9.250		8.774		0.366	+.005 -.001	341.67
TP-447*	**9.500**		9.500	9.000		9.500		9.024		0.366		134.95
TP-448*	**10.000**		10.000	9.500		10.000		9.524		0.366		137.72
TP-448-1	**10.000**		10.000	9.500		10.000		9.524		0.475	+.010 -.000	287.69
TP-448-2	**10.000**		10.000	9.500		10.000		9.524		0.579		321.44
TP-449*	**10.500**		10.500	10.000		10.500		10.024		0.366	+.005/-.001	162.79
TP-449-2	**10.500**		10.500	10.000		10.500		10.024		0.579	+.010/-.000	459.86
TP-450	**11.000**	+.006 -.000	11.000	10.500		11.000	+.006 -.000	10.524		0.366	+.005/-.001	180.68
TP-450-1	**11.000**		11.000	10.500		11.000		10.524		0.475	+.010/-.000	312.87
TP-451*	**11.500**		11.500	11.000		11.500		11.024		0.366	+.005 -.001	206.52
TP-452	**12.000**		12.000	11.500		12.000		11.524		0.366		220.59
TP-452-1*	**12.000**		12.000	11.500		12.000		11.524		0.475	+.010 -.000	456.89
TP-456-1*	**14.000**		14.000	13.500		14.000		13.524		0.475		1146.63
TP-461*	**16.500**		16.500	16.000		16.500		16.024		0.366	+.005/-.001	1099.68

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Uniring - Piston Cups - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-40°F to +250°F (-40°C to +120°C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)



The Piston **Uniring** is a one-piece, double-acting piston seal made of two bonded materials: a hard, wear-resistant dynamic sealing layer (Duro 60D) and a softer, resilient static sealing layer (Duro 57A) that acts like a seal energizing spring for reliable sealing across a wide pressure range. This design ensures reliable sealing across a wide pressure range, allows easy installation on one-piece pistons, and replaces a variety of seal types (O-rings, O-rings with back-ups, T-seals, U-seals).

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
UNI25001000-375*	**1.500**	+.006/-.000	1.500	1.000	0.375	1.500	+.006/-.000	1.000	+.005/-.000	0.394	+.015 -.000	13.21
UNI18701125-250	**1.500**	+.004/-.000	1.500	1.125	0.250	1.500	+.004/-.000	1.125	+.004/-.000	0.263		9.45
UNI12501250-187	**1.500**	+.003/-.000	1.500	1.250	0.187	1.500	+.003/-.000	1.250	+.003/-.000	0.196		7.02
UNI25001250-375*	**1.750**	+.006 -.000	1.750	1.250	0.375	1.750	+.006 -.000	1.250	+.005 -.000	0.394		13.98
UNI25001250-500*	**1.750**		1.750	1.250	0.500	1.750		1.250		0.526		9.45
UNI18701375-250	**1.750**	+.004 -.000	1.750	1.375	0.250	1.750	+.004 -.000	1.375	+.004 -.000	0.263		9.65
UNI18701375-500*	**1.750**		1.750	1.375	0.500	1.750		1.375		0.526		17.13
UNI12501500-187	**1.750**	+.003/-.000	1.750	1.500	0.187	1.750	+.003/-.000	1.500	+.003/-.000	0.196		10.57
UNI25001500-375	**2.000**	+.006/-.000	2.000	1.500	0.375	2.000	+.006/-.000	1.500	+.005/-.000	0.394		15.41
UNI18701625-281	**2.000**	+.004 -.000	2.000	1.625	0.281	2.000	+.004 -.000	1.625	+.004 -.000	0.296		12.11
UNI18701625-312	**2.000**		2.000	1.625	0.312	2.000		1.625		0.328		12.17
UNI18701625-375	**2.000**	↓	2.000	1.625	0.375	2.000	↓	1.625	↓	0.394	↓	14.01
UNI12501750-250	**2.000**	+.003/-.000	2.000	1.750	0.250	2.000	+.003/-.000	1.750	+.003/-.000	0.263		10.05
UNI18701875-281	**2.250**	+.004 -.000	2.250	1.875	0.281	2.250	+.004 -.000	1.875	+.004 -.000	0.296		12.37
UNI18701875-312*	**2.250**		2.250	1.875	0.312	2.250		1.875		0.328		15.20
UNI18702000-281*	**2.375**	↓	2.375	2.000	0.281	2.375	↓	2.000	↓	0.296	↓	12.45
UNI25002000-375	**2.500**	+.006/-.000	2.500	2.000	0.375	2.500	+.006/-.000	2.000	+.005/-.000	0.394		15.09
UNI18702125-281	**2.500**	+.004 -.000	2.500	2.125	0.281	2.500	+.004 -.000	2.125	+.004 -.000	0.296		12.63
UNI18702125-312	**2.500**		2.500	2.125	0.312	2.500		2.125		0.328		13.42
UNI18702125-375	**2.500**	↓	2.500	2.125	0.375	2.500	↓	2.125	↓	0.394	↓	14.97
UNI18702375-312	**2.750**	↓	2.750	2.375	0.312	2.750	↓	2.375	↓	0.328	↓	14.72
UNI25002500-375	**3.000**	+.006/-.000	3.000	2.500	0.375	3.000	+.006/-.000	2.500	+.005/-.000	0.394	↓	16.03

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
UNI25002500-500*	**3.000**	+.006/-.000	3.000	2.500	0.500	3.000	+.006/-.000	2.500	+.005/-.000	0.526	+.015 -.000	34.20
UNI18702625-281	**3.000**	+.004 -.000	3.000	2.625	0.281	3.000	+.004 -.000	2.625	+.004 -.000	0.296		14.53
UNI18702625-312*	**3.000**		3.000	2.625	0.312	3.000		2.625		0.328		16.13
UNI18702625-375	**3.000**		3.000	2.625	0.375	3.000		2.625		0.394		16.03
UNI25002750-562*	**3.250**	+.006/-.000	3.250	2.750	0.562	3.250	+.006/-.000	2.750	+.005/-.000	0.591		25.99
UNI18702875-281	**3.250**	+.004 -.000	3.250	2.875	0.281	3.250	+.004 -.000	2.875	+.004 -.000	0.296		15.61
UNI18702875-312*	**3.250**		3.250	2.875	0.312	3.250		2.875		0.328		16.50
UNI25003000-375	**3.500**	+.006/-.000	3.500	3.000	0.375	3.500	+.006/-.000	3.000	+.005/-.000	0.394		18.01
UNI18703125-281	**3.500**	+.004 -.000	3.500	3.125	0.281	3.500	+.004 -.000	3.125	+.004 -.000	0.296		16.17
UNI18703125-312	**3.500**		3.500	3.125	0.312	3.500		3.125		0.328		16.87
UNI18703125-375	**3.500**		3.500	3.125	0.375	3.500		3.125		0.394		17.15
UNI18703375-312*	**3.750**		3.750	3.375	0.312	3.750		3.375		0.328		17.20
UNI37503250-625*	**4.000**	+.008/-.000	4.000	3.250	0.625	4.000	+.008/-.000	3.250	+.007/-.000	0.657		29.75
UNI25003500-375	**4.000**	+.006/-.000	4.000	3.500	0.375	4.000	+.006/-.000	3.500	+.005/-.000	0.394		26.52
UNI18703625-281	**4.000**	+.004 -.000	4.000	3.625	0.281	4.000	+.004 -.000	3.625	+.004 -.000	0.296		17.46
UNI18703625-375	**4.000**		4.000	3.625	0.375	4.000		3.625		0.394		18.26
UNI18703875-281*	**4.250**		4.250	3.875	0.281	4.250		3.875		0.296		18.61
UNI37503750-625*	**4.500**	+.008/-.000	4.500	3.750	0.625	4.500	+.008/-.000	3.750	+.007/-.000	0.657		34.20
UNI25004000-375	**4.500**	+.006 -.000	4.500	4.000	0.375	4.500	+.006 -.000	4.000	+.005 -.000	0.394		22.05
UNI25004000-562*	**4.500**		4.500	4.000	0.562	4.500		4.000		0.591		32.60
UNI18704125-281*	**4.500**	+.004 -.000	4.500	4.125	0.281	4.500	+.004 -.000	4.125	+.004 -.000	0.296		20.68
UNI18704375-281*	**4.750**		4.750	4.375	0.281	4.750		4.375		0.296		24.10
UNI37504250-625*	**5.000**	+.008/-.000	5.000	4.250	0.625	5.000	+.008/-.000	4.250	+.007/-.000	0.657		38.66
UNI31204375-500*	**5.000**	+.006 -.000	5.000	4.375	0.500	5.000	+.006 -.000	4.375	+.006/-.000	0.526		62.00
UNI25004500-375	**5.000**		5.000	4.500	0.375	5.000		4.500	+.005 -.000	0.394		24.02
UNI25004500-500*	**5.000**		5.000	4.500	0.500	5.000		4.500		0.526		41.20
UNI25004500-562	**5.000**		5.000	4.500	0.562	5.000		4.500		0.591		39.61
UNI18704625-281	**5.000**	+.004/-.000	5.000	4.625	0.281	5.000	+.004/-.000	4.625	+.004/-.000	0.296		29.99
UNI25004750-562	**5.250**	+.006/-.000	5.250	4.750	0.562	5.250	+.006/-.000	4.750	+.005/-.000	0.591		39.95
UNI37504750-625*	**5.500**	+.008/-.000	5.500	4.750	0.625	5.500	+.008/-.000	4.750	+.007/-.000	0.657		43.08
UNI25005000-375*	**5.500**	+.006/-.000	5.500	5.000	0.375	5.500	+.006/-.000	5.000	+.005/-.000	0.394		50.36
UNI37505250-625*	**6.000**	+.008/-.000	6.000	5.250	0.625	6.000	+.008/-.000	5.250	+.007/-.000	0.657		58.38
UNI31205375-500	**6.000**	+.006 -.000	6.000	5.375	0.500	6.000	+.006 -.000	5.375	+.006/-.000	0.526		51.81
UNI25005500-366*	**6.000**		6.000	5.500	0.366	6.000		5.500	+.005 -.000	0.385		43.53
UNI25005500-375	**6.000**		6.000	5.500	0.375	6.000		5.500		0.394		54.70
UNI25005500-562*	**6.000**		6.000	5.500	0.562	6.000		5.500		0.591		57.20
UNI25006000-366*	**6.500**		6.500	6.000	0.366	6.500		6.000		0.385		48.45
UNI25006000-562*	**6.500**		6.500	6.000	0.562	6.500		6.000		0.591		58.36
UNI25006500-366	**7.000**		7.000	6.500	0.366	7.000		6.500		0.385		48.94
UNI25007500-375*	**7.500**		7.500	7.000	0.375	7.500		7.000		0.394		45.37

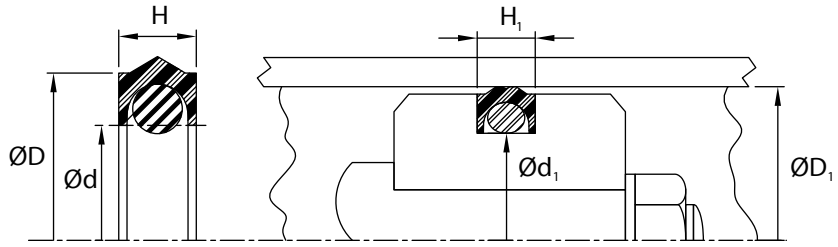
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P2U - Piston Seals - Inch



Standard Material	Temperature Range	Pressure * Range	Surface Speed
Polyurethane/Nitrile	-65°F to +220°F (-54°C to +104°C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)



The **P2U-style** is a squeeze-type, bi-directional piston seal for use in light to medium duty hydraulic applications. The narrow single line sealing surface produces a positive seal from vacuum to high pressure. It is designed to retrofit no-backup O'Ring type grooves.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P2U-106*	**0.375**	+.002 -.000	0.375	0.187	0.115	0.375	+.002 -.000	0.188	+.000 -.002	0.150	+.005 -.000	7.04
P2U-109*	**0.500**		0.500	0.312	0.115	0.500		0.313		0.150		7.04
P2U-203*	**0.562**		0.562	0.312	0.150	0.562		0.315		0.187		7.08
P2U-204*	**0.625**		0.625	0.375	0.150	0.625		0.378		0.187		7.08
P2U-205*	**0.687**		0.687	0.437	0.150	0.687		0.440		0.187		7.25
P2U-206*	**0.750**		0.750	0.500	0.150	0.750		0.503		0.187		7.62
P2U-206/4622	**0.750**		0.750	0.500	0.150	0.750		0.508		0.187		15.78
P2U-207*	**0.812**		0.812	0.562	0.150	0.812		0.565		0.187		7.77
P2U-208*	**0.875**		0.875	0.625	0.150	0.875		0.628		0.187		7.95
P2U-210	**1.000**		1.000	0.750	0.150	1.000		0.754		0.187		8.58
P2U-211*	**1.062**		1.062	0.812	0.150	1.062		0.816		0.187		8.84
P2U-212	**1.125**		1.125	0.875	0.150	1.125		0.879		0.187		8.84
P2U-213*	**1.187**		1.187	0.937	0.150	1.187		0.941		0.187		8.84
P2U-214	**1.250**		1.250	1.000	0.150	1.250		1.004		0.187		12.50
P2U-214/4622	**1.250**		1.250	1.000	0.150	1.250		1.008		0.187		10.27
P2U-215*	**1.312**		1.312	1.062	0.150	1.312		1.066		0.187		13.25
P2U-215/F*	**1.312**		1.312	1.062	0.150	1.312		1.066		0.187		13.80
P2U-216	**1.375**		1.375	1.125	0.150	1.375		1.129		0.187		8.84
P2U-217*	**1.437**		1.437	1.187	0.150	1.437		1.191		0.187		9.47
P2U-218	**1.500**		1.500	1.250	0.150	1.500		1.254		0.187		8.84
P2U-218-WB	**1.500**		1.500	1.250	0.265	1.500		1.254		0.304		15.44
P2U-219*	**1.562**		1.562	1.312	0.150	1.562		1.316		0.187		10.16

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Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P2U-220	**1.625**	+.002 -.000	1.625	1.375	0.150	1.625	+.002 -.000	1.379	+.000 -.002	0.187	+.005 -.000	9.62
P2U-220/4622	**1.625**		1.625	1.375	0.150	1.625		1.383		0.187		12.36
P2U-221*	**1.687**		1.687	1.437	0.150	1.687		1.441		0.187		13.10
P2U-324	**1.750**		1.750	1.375	0.255	1.750		1.375		0.281		13.53
P2U-222	**1.750**		1.750	1.500	0.150	1.750		1.504		0.187		9.99
P2U-222/4622	**1.750**		1.750	1.500	0.150	1.750		1.508		0.187		13.22
P2U-222-WB	**1.750**		1.750	1.500	0.265	1.750		1.504		0.304		15.98
P2U-325	**1.875**		1.875	1.500	0.255	1.875		1.500		0.281		10.62
P2U-325/4622	**1.875**		1.875	1.500	0.255	1.875		1.505		0.281		13.97
P2U-326	**2.000**		2.000	1.625	0.255	2.000		1.625		0.281		11.07
P2U-326/F	**2.000**		2.000	1.625	0.255	2.000		1.625		0.281		11.54
P2U-326-WB	**2.000**		2.000	1.625	0.370	2.000		1.625		0.424		18.15
P2U-327	**2.125**		2.125	1.750	0.255	2.125		1.750		0.281		18.02
P2U-328	**2.250**		2.250	1.875	0.255	2.250		1.875		0.281		12.75
P2U-328/4622	**2.250**		2.250	1.875	0.255	2.250		1.880		0.281		17.30
P2U-329	**2.375**		2.375	2.000	0.255	2.375		2.000		0.281		13.67
P2U-330	**2.500**		2.500	2.125	0.255	2.500		2.125		0.281		14.42
P2U-330/4622	**2.500**		2.500	2.125	0.255	2.500		2.130		0.281		19.81
P2U-330-WB	**2.500**		2.500	2.125	0.370	2.500		2.125		0.424		22.83
P2U-228	**2.500**		2.500	2.250	0.150	2.500		2.254		0.187		17.21
P2U-331*	**2.625**		2.625	2.250	0.255	2.625		2.250		0.281		23.22
P2U-331/4622*	**2.625**		2.625	2.250	0.255	2.625		2.255		0.281		20.59
P2U-332	**2.750**		2.750	2.375	0.255	2.750		2.375		0.281		17.01
P2U-332/4622	**2.750**		2.750	2.375	0.255	2.750		2.380		0.281		21.47
P2U-332-WB*	**2.750**		2.750	2.375	0.370	2.750		2.375		0.424		36.33
P2U-333	**2.875**		2.875	2.500	0.255	2.875		2.500		0.281		18.54
P2U-333/4622*	**2.875**		2.875	2.500	0.255	2.875		2.505		0.281		22.22
P2U-334	**3.000**		3.000	2.625	0.255	3.000		2.625		0.281		17.82
P2U-334-WB	**3.000**		3.000	2.625	0.370	3.000		2.625		0.424		27.45
P2U-232	**3.000**		3.000	2.750	0.150	3.000		2.754		0.187		23.42
P2U-335	**3.125**		3.125	2.750	0.255	3.125		2.750		0.281		27.26
P2U-233*	**3.125**		3.125	2.875	0.150	3.125		2.879		0.187		21.15
P2U-336	**3.250**		3.250	2.875	0.255	3.250		2.875		0.281		27.57
P2U-336/4622	**3.250**		3.250	2.875	0.255	3.250		2.880		0.281		25.55
P2U-337	**3.375**		3.375	3.000	0.255	3.375		3.000		0.281		31.95
P2U-338	**3.500**		3.500	3.125	0.255	3.500		3.125		0.281		22.28
P2U-338-WB*	**3.500**		3.500	3.125	0.370	3.500		3.125		0.424		31.20
P2U-339	**3.625**		3.625	3.250	0.255	3.625		3.250		0.281		34.38
P2U-339/4622	**3.625**		3.625	3.250	0.255	3.625		3.255		0.281		28.03
P2U-237*	**3.625**		3.625	3.375	0.150	3.625		3.379		0.187		23.48
P2U-340	**3.750**		3.750	3.375	0.255	3.750		3.375		0.281		24.08
P2U-340/4622	**3.750**		3.750	3.375	0.255	3.750		3.380		0.281		29.69
P2U-341	**3.875**		3.875	3.500	0.255	3.875		3.500		0.281		37.94
P2U-417	**4.000**		4.000	3.500	0.320	4.000		3.520		0.375		53.48
P2U-342	**4.000**		4.000	3.625	0.255	4.000		3.625		0.281		26.45
P2U-342-WB	**4.000**		4.000	3.625	0.370	4.000		3.625		0.424		54.75

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P2U series - AU/NBR

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P2U-240*	**4.000**	+.002 -.000	4.000	3.750	0.150	4.000	+.002 -.000	3.754	+.000 -.002	0.187	+.005 -.000	32.15
P2U-343*	**4.125**		4.125	3.750	0.255	4.125		3.750		0.281		35.54
P2U-344	**4.250**		4.250	3.875	0.255	4.250		3.875		0.281		42.84
P2U-344/4622	**4.250**		4.250	3.875	0.255	4.250		3.880		0.281		37.95
P2U-345	**4.375**		4.375	4.000	0.255	4.375		4.000		0.281		39.99
P2U-345/4622*	**4.375**		4.375	4.000	0.255	4.375		4.005		0.281		39.55
P2U-346	**4.500**		4.500	4.125	0.255	4.500		4.125		0.281		44.42
P2U-346/4622	**4.500**		4.500	4.125	0.255	4.500		4.130		0.281		41.21
P2U-347*	**4.625**		4.625	4.250	0.255	4.625		4.250		0.281		46.20
P2U-348	**4.750**		4.750	4.375	0.255	4.750		4.375		0.281		45.38
P2U-348/4622	**4.750**		4.750	4.375	0.255	4.750		4.380		0.281		45.29
P2U-349*	**4.875**		4.875	4.500	0.255	4.875		4.500		0.281		63.59
P2U-425	**5.000**		5.000	4.500	0.320	5.000		4.520		0.375		55.40
P2U-425-WB	**5.000**		5.000	4.500	0.500	5.000		4.520		0.579		55.97
P2U-350	**5.000**		5.000	4.625	0.255	5.000		4.626		0.281		42.83
P2U-427	**5.250**		5.250	4.750	0.320	5.250		4.770	+.000 -.004	0.375		48.53
P2U-352*	**5.250**		5.250	4.875	0.255	5.250		4.875		0.281		52.20
P2U-428	**5.375**		5.375	4.875	0.320	5.375		4.895		0.375		51.83
P2U-429	**5.500**		5.500	5.000	0.320	5.500		5.020		0.375		51.90
P2U-354	**5.500**		5.500	5.125	0.255	5.500		5.125		0.281		55.22
P2U-252*	**5.500**		5.500	5.250	0.150	5.500		5.254		0.187		34.62
P2U-430*	**5.625**		5.625	5.125	0.320	5.625		5.145		0.375		57.93
P2U-431	**5.750**		5.750	5.250	0.320	5.750		5.270		0.375		58.46
P2U-432	**5.875**		5.875	5.375	0.320	5.875		5.395		0.375		60.68
P2U-433	**6.000**		6.000	5.500	0.320	6.000		5.520		0.375		65.06
P2U-433-WB	**6.000**		6.000	5.500	0.500	6.000		5.520		0.579		89.48
P2U-358*	**6.000**		6.000	5.625	0.255	6.000		5.625		0.281		59.30
P2U-434	**6.125**		6.125	5.625	0.320	6.125		5.645		0.375		78.23
P2U-435	**6.250**		6.250	5.750	0.320	6.250		5.770		0.375		69.59
P2U-437	**6.500**		6.500	6.000	0.320	6.500		6.020		0.375		70.52
P2U-438	**6.750**		6.750	6.250	0.320	6.750		6.270		0.375		71.70
P2U-439	**7.000**		7.000	6.500	0.320	7.000		6.520		0.375		74.72
P2U-439/F*	**7.000**		7.000	6.500	0.320	7.000		6.520		0.375		101.75
P2U-439/4622	**7.000**		7.000	6.500	0.320	7.000		6.528		0.375		83.18
P2U-440	**7.250**		7.250	6.750	0.320	7.250		6.770		0.375		81.57
P2U-441	**7.500**		7.500	7.000	0.320	7.500		7.020		0.375		84.27
P2U-442*	**7.750**		7.750	7.250	0.320	7.750		7.270		0.375		120.84
P2U-443	**8.000**		8.000	7.500	0.320	8.000		7.520		0.375		87.42
P2U-443/V*	**8.000**		8.000	7.500	0.320	8.000		7.520		0.375		559.88
P2U-444	**8.250**		8.250	7.750	0.320	8.250		7.770		0.375		89.33
P2U-445	**8.500**		8.500	8.000	0.320	8.500		8.020		0.375		93.95
P2U-446*	**9.000**		9.000	8.500	0.320	9.000		8.520		0.375		101.40
P2U-447*	**9.500**		9.500	9.000	0.320	9.500		9.020		0.375		96.33
P2U-448	**10.000**		10.000	9.500	0.320	10.000		9.520		0.375		108.12
P2U-449	**10.500**		10.500	10.000	0.320	10.500		10.020		0.375		112.38
P2U-450*	**11.000**		11.000	10.500	0.320	11.000		10.520		0.375		115.73

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P2U-451*	**11.500**	+.002 -.000	11.500	11.000	0.320	11.500	+.002 -.000	11.020	+.000 -.004	0.375	+.005 -.000	166.76
P2U-452*	**12.000**		12.000	11.500	0.320	12.000		11.520		0.375		186.74
P2U-453*	**12.500**		12.500	12.000	0.320	12.500		12.020		0.375		199.19
P2U-454*	**13.000**		13.000	12.500	0.320	13.000		12.520		0.375		213.05
P2U-456*	**14.000**		14.000	13.500	0.320	14.000		13.520		0.375		242.61

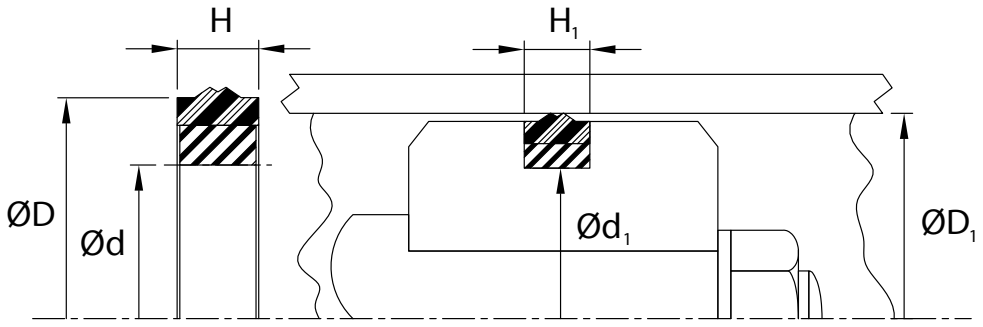
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P2U - A - WB - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-40°F to +250°F (-40°C to +120°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)



Similar in nature to the **P2U**. these series are designed to retrofit one-backup (A) and two-backup (WB) O'Ring type grooves.
P2U-A-style for single back-up O'Ring gland
P2U-WB-style for two back-up O'Ring gland

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P2U-203A*	**0.562**	+.002 -.000	0.562	0.312	0.170	0.562	+.002 -.000	0.320	+.000 -.002	0.187	+.005 -.000	5.88
P2U-204A*	**0.625**		0.625	0.375	0.170	0.625		0.383		0.187		5.96
P2U-205A*	**0.687**		0.687	0.437	0.170	0.687		0.445		0.187		6.06
P2U-206A*	**0.750**		0.750	0.500	0.170	0.750		0.508		0.187		6.19
P2U-207A*	**0.812**		0.812	0.562	0.170	0.812		0.570		0.187		6.31
P2U-208A*	**0.875**		0.875	0.625	0.170	0.875		0.633		0.187		6.48
P2U-209A*	**0.937**		0.937	0.687	0.170	0.937		0.695		0.187		6.59
P2U-210A	**1.000**		1.000	0.750	0.170	1.000		0.758		0.187		9.88
P2U-211A*	**1.062**		1.062	0.812	0.170	1.062		0.820		0.187		6.97
P2U-212A*	**1.125**		1.125	0.875	0.170	1.125		0.883		0.187		7.15
P2U-213A*	**1.187**		1.187	0.937	0.170	1.187		0.945		0.187		7.37
P2U-214A	**1.250**		1.250	1.000	0.170	1.250		1.008		0.187		7.60
P2U-215A*	**1.312**		1.312	1.062	0.170	1.312		1.070		0.187		7.80
P2U-216A*	**1.375**		1.375	1.125	0.170	1.375		1.133		0.187		8.12
P2U-217A*	**1.437**		1.437	1.187	0.170	1.437		1.195		0.187		8.41
P2U-218A	**1.500**		1.500	1.250	0.170	1.500		1.258		0.187		8.65
P2U-218A-WB	**1.500**		1.500	1.250	0.250	1.500		1.258		0.275		14.84
P2U-219A*	**1.562**		1.562	1.312	0.170	1.562		1.320		0.187		9.00
P2U-220A*	**1.625**		1.625	1.375	0.170	1.625		1.383		0.187		9.34
P2U-221A*	**1.687**		1.687	1.437	0.170	1.687		1.445		0.187		9.58
P2U-222A	**1.750**		1.750	1.500	0.170	1.750		1.508		0.187		9.90
P2U-325A*	**1.875**		1.875	1.500	0.254	1.875		1.505		0.281		10.61

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P2U - A - WB series - AU/NBR

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P2U-326A	**2.000**	+.002 -.000	2.000	1.625	0.254	2.000	+.002 -.000	1.630	+.000 -.002	0.281	+.005 -.000	11.60
P2U-326A/4622	**2.000**		2.000	1.625	0.254	2.000		1.630		0.281		11.94
P2U-326A-WB	**2.000**		2.000	1.625	0.375	2.000		1.630		0.410		32.88
P2U-327A*	**2.125**		2.125	1.750	0.254	2.125		1.755		0.281		12.14
P2U-328A	**2.250**		2.250	1.875	0.254	2.250		1.880		0.281		22.68
P2U-329A*	**2.375**		2.375	2.000	0.254	2.375		2.005		0.281		12.68
P2U-330A	**2.500**		2.500	2.125	0.254	2.500		2.130		0.281		20.05
P2U-330A-WB	**2.500**		2.500	2.125	0.375	2.500		2.130		0.410		33.26
P2U-331A	**2.625**		2.625	2.250	0.254	2.625		2.255		0.281		17.36
P2U-332A	**2.750**		2.750	2.375	0.254	2.750		2.380		0.281		21.96
P2U-333A*	**2.875**		2.875	2.500	0.254	2.875		2.505		0.281		16.45
P2U-334A	**3.000**		3.000	2.625	0.254	3.000		2.630		0.281		17.15
P2U-334A/4622	**3.000**		3.000	2.625	0.254	3.000		2.630		0.281		18.84
P2U-334A-WB	**3.000**		3.000	2.625	0.375	3.000		2.630		0.410		43.26
P2U-335A*	**3.125**		3.125	2.750	0.254	3.125		2.755		0.281		17.72
P2U-336A	**3.250**		3.250	2.875	0.254	3.250		2.880		0.281		24.00
P2U-337A*	**3.375**		3.375	3.000	0.254	3.375		3.005		0.281		10.86
P2U-338A	**3.500**		3.500	3.125	0.254	3.500		3.130		0.281		19.90
P2U-338A/4622	**3.500**		3.500	3.125	0.254	3.500		3.130		0.281		34.65
P2U-338A-WB	**3.500**		3.500	3.125	0.375	3.500		3.130		0.410		42.52
P2U-339A*	**3.625**		3.625	3.250	0.254	3.625		3.255		0.281		21.59
P2U-340A*	**3.750**		3.750	3.375	0.254	3.750		3.380		0.281		22.12
P2U-341A*	**3.875**		3.875	3.500	0.254	3.875		3.505		0.281		24.53
P2U-342A	**4.000**		4.000	3.625	0.254	4.000		3.630		0.281		29.52
P2U-342A-WB	**4.000**		4.000	3.625	0.375	4.000		3.630		0.410		54.14
P2U-343A*	**4.125**		4.125	3.750	0.254	4.125		3.755		0.281		27.49
P2U-344A	**4.250**		4.250	3.875	0.254	4.250		3.880		0.281		37.82
P2U-345A*	**4.375**		4.375	4.000	0.254	4.375		4.005		0.281		30.35
P2U-346A	**4.500**		4.500	4.125	0.254	4.500		4.130		0.281		28.64
P2U-346A/4622	**4.500**		4.500	4.125	0.254	4.500		4.130		0.281		30.46
P2U-346A-WB	**4.500**		4.500	4.125	0.375	4.500		4.130		0.410		77.46
P2U-347A*	**4.625**		4.625	4.250	0.254	4.625		4.255		0.281		28.64
P2U-348A*	**4.750**		4.750	4.375	0.254	4.750		4.380		0.281		35.26
P2U-349A*	**4.875**		4.875	4.500	0.254	4.875		4.505		0.281		36.28
P2U-425A-WB	**5.000**		5.000	4.500	0.500	5.000		4.528		0.538		80.56
P2U-350A	**5.000**		5.000	4.625	0.254	5.000		4.630		0.281		47.57
P2U-426A*	**5.125**		5.125	4.625	0.340	5.125		4.653	+.000 -.004	0.375		41.18
P2U-427A*	**5.250**		5.250	4.750	0.340	5.250		4.778		0.375		43.15
P2U-428A*	**5.375**		5.375	4.875	0.340	5.375		4.903		0.375		46.44
P2U-429A	**5.500**		5.500	5.000	0.340	5.500		5.028		0.375		85.75
P2U-429A-WB/30K*	**5.500**		5.500	5.000	0.500	5.500		5.028		0.538		203.62
P2U-430A*	**5.625**		5.625	5.125	0.340	5.625		5.153		0.375		49.94
P2U-431A*	**5.750**		5.750	5.250	0.340	5.750		5.278		0.375		52.01
P2U-432A*	**5.875**		5.875	5.375	0.340	5.875		5.403		0.375		53.89
P2U-433A	**6.000**		6.000	5.500	0.340	6.000		5.528		0.375		79.02
P2U-433A-WB	**6.000**		6.000	5.500	0.500	6.000		5.528		0.538		145.70

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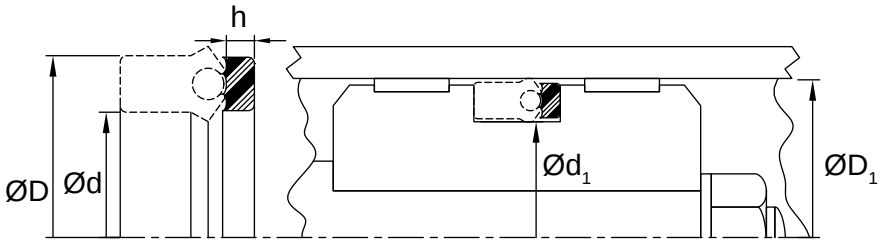
P2U - A - WB - AU/NBR

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P2U-434A*	**6.125**	+.002 -.000	6.125	5.625	0.340	6.125	+.002 -.000	5.653	+.000 -.004	0.375	+.005 -.000	57.37
P2U-435A*	**6.250**		6.250	5.750	0.340	6.250		5.778		0.375		58.82
P2U-437A*	**6.500**		6.500	6.000	0.340	6.500		6.028		0.375		55.69
P2U-438A*	**6.750**		6.750	6.250	0.340	6.750		6.278		0.375		63.70
P2U-439A	**7.000**		7.000	6.500	0.340	7.000		6.528		0.375		62.51
P2U-439A-WB	**7.000**		7.000	6.500	0.500	7.000		6.528		0.538		108.84
P2U-448A-WB/30K*	**10.000**		10.000	9.500	0.500	10.000		9.528		0.538		405.95

PIP Ring - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Molythane	-65°F to +200°F (-54°C to +93°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)



Pip Rings are auxiliary devices used to convert **Type B Loaded U-Cups** from single-acting to bi-directional sealing ability.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions D	d	h	$
12500437PR/4617*	**0.687**	0.437	0.065	O/R
12500500PR/4617*	**0.750**	0.500	0.065	7.95
12500750PR/4617*	**1.000**	0.750	0.065	8.32
18700625PR/4617*	**1.000**	0.625	0.109	8.75
18700750PR/4617*	**1.125**	0.750	0.109	8.89
12501000PR/4617*	**1.250**	1.000	0.065	8.55

Ref.Number	Nominal Seal Dimensions D	d	h	$
18700875PR/4617*	**1.250**	0.875	0.109	9.31
18700937PR/4617	**1.312**	0.937	0.109	9.44
12501125PR/4617*	**1.375**	1.125	0.065	9.14
18701000PR/4617*	**1.375**	1.000	0.109	9.55
12501250PR/4617	**1.500**	1.250	0.065	9.28
18701125PR/4617	**1.500**	1.125	0.109	9.55

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
25001000PR/4617*	**1.500**	1.000	0.137	9.90
18701250PR/4617*	**1.625**	1.250	0.109	10.12
12501500PR/4617*	**1.750**	1.500	0.065	10.60
18701375PR/4617*	**1.750**	1.375	0.109	10.11
25001250PR/4617*	**1.750**	1.250	0.137	11.77
18701500PR/4617*	**1.875**	1.500	0.109	11.05
12501750PR/4617*	**2.000**	1.750	0.065	10.74
18701625PR/4617	**2.000**	1.625	0.109	10.74
25001500PR/4617	**2.000**	1.500	0.137	11.94
18701750PR/4617	**2.125**	1.750	0.109	11.67
12502000PR/4617	**2.250**	2.000	0.065	11.30
25001750PR/4617*	**2.250**	1.750	0.137	13.97
18702000PR/4617*	**2.375**	2.000	0.109	12.63
25001937PR/4617*	**2.437**	1.937	0.137	14.60
18702125PR/4617	**2.500**	2.125	0.109	12.63
25002000PR/4617	**2.500**	2.000	0.137	14.61
31201875PR/4617*	**2.500**	1.875	0.160	18.82
18702375PR/4617*	**2.750**	2.375	0.109	12.43
25002250PR/4617	**2.750**	2.250	0.137	16.99
37502000PR/4617*	**2.750**	2.000	0.207	25.48
18702500PR/4617*	**2.875**	2.500	0.109	13.17
18702625PR/4617	**3.000**	2.625	0.109	13.14
25002500PR/4617	**3.000**	2.500	0.137	20.95
31202375PR/4617*	**3.000**	2.375	0.160	20.12
37502250PR/4617*	**3.000**	2.250	0.207	28.59
18702750PR/4617*	**3.125**	2.750	0.109	14.97
25002750PR/4617	**3.250**	2.750	0.137	18.42
37502500PR/4617*	**3.250**	2.500	0.207	30.92
18703000PR/4617*	**3.375**	3.000	0.109	15.39
25002875PR/4617*	**3.375**	2.875	0.137	19.98
18703125PR/4617	**3.500**	3.125	0.109	15.40
25003000PR/4617	**3.500**	3.000	0.137	20.48
37502750PR/4617*	**3.500**	2.750	0.207	28.60
18703250PR/4617*	**3.625**	3.250	0.109	17.72
37503000PR/4617*	**3.625**	3.000	0.207	34.58
18703375PR/4617*	**3.750**	3.375	0.109	18.70
25003250PR/4617	**3.750**	3.250	0.137	23.15
18703625PR/4617*	**4.000**	3.625	0.109	18.98
25003500PR/4617*	**4.000**	3.500	0.137	23.98
31203375PR/4617	**4.000**	3.375	0.160	27.33
37503250PR/4617	**4.000**	3.250	0.207	36.26
25003750PR/4617*	**4.250**	3.750	0.137	27.08
37503500PR/4617*	**4.250**	3.500	0.207	41.34
18704000PR/4617*	**4.375**	4.000	0.109	23.45
25004000PR/4617*	**4.500**	4.000	0.137	27.40
37503750PR/4617*	**4.500**	3.750	0.207	41.04

Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
50003500PR/4617*	**4.500**	3.500	0.275	60.42
25004250PR/4617*	**4.750**	4.250	0.137	29.70
37504000PR/4617*	**4.750**	4.000	0.207	45.29
25004500PR/4617	**5.000**	4.500	0.137	29.44
31204375PR/4617	**5.000**	4.375	0.160	35.25
37504250PR/4617	**5.000**	4.250	0.207	46.39
50004000-500PR/4617*	**5.000**	4.000	0.500	85.06
50004000PR/4617*	**5.000**	4.000	0.275	64.46
31204500PR/4617*	**5.125**	4.500	0.160	44.33
25004750PR/4617*	**5.250**	4.750	0.137	31.82
37504500PR/4617*	**5.250**	4.500	0.207	51.79
25005000PR/4617	**5.500**	5.000	0.137	32.39
37504750PR/4617	**5.500**	4.750	0.207	56.24
25005250PR/4617*	**5.750**	5.250	0.137	42.87
37505000PR/4617*	**5.750**	5.000	0.207	56.37
25005500PR/4617	**6.000**	5.500	0.137	47.53
37505250PR/4617	**6.000**	5.250	0.207	56.31
50005000PR/4617	**6.000**	5.000	0.275	78.61
50005000PR/4652*	**6.000**	5.000	0.275	121.45
31205500PR/4617*	**6.125**	5.500	0.160	49.12
37505500PR/4617*	**6.250**	5.500	0.207	58.36
50005250PR/4617*	**6.250**	5.250	0.275	84.31
25006000PR/4617*	**6.500**	6.000	0.137	48.18
37505750PR/4617	**6.500**	5.750	0.207	66.27
37506000PR/4617*	**6.750**	6.000	0.207	65.75
25006500PR/4617*	**7.000**	6.500	0.137	51.27
31206375PR/4617*	**7.000**	6.375	0.160	51.54
37506250PR/4617*	**7.000**	6.250	0.207	63.25
50006000PR/4617	**7.000**	6.000	0.275	84.80
25007000PR/4617	**7.500**	7.000	0.137	47.28
37506750PR/4617*	**7.500**	6.750	0.207	72.82
37506750PR/4654*	**7.500**	6.750	0.207	74.20
37507000PR/4617*	**7.750**	7.000	0.207	75.32
37507250PR/4617	**8.000**	7.250	0.207	75.55
50007000PR/4617*	**8.000**	7.000	0.275	96.01
50007000PR/4652*	**8.000**	7.000	0.275	118.15
50007250PR/4617*	**8.250**	7.250	0.275	103.33
62507000PR/4617*	**8.250**	7.000	0.312	118.15
62507250PR/4617*	**8.500**	7.250	0.312	144.44
37508250PR/4617*	**9.000**	8.250	0.207	87.20
50008000PR/4617	**9.000**	8.000	0.275	105.06
37508500PR/4617*	**9.250**	8.500	0.207	89.56
37508750PR/4617*	**9.500**	8.750	0.207	91.26
50009000PR/4617	**10.000**	9.000	0.275	117.05
31209750PR/4617*	**10.375**	9.750	0.160	70.50
50009500PR/4617	**10.500**	9.500	0.275	129.03

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PIP Ring series - AU 65D

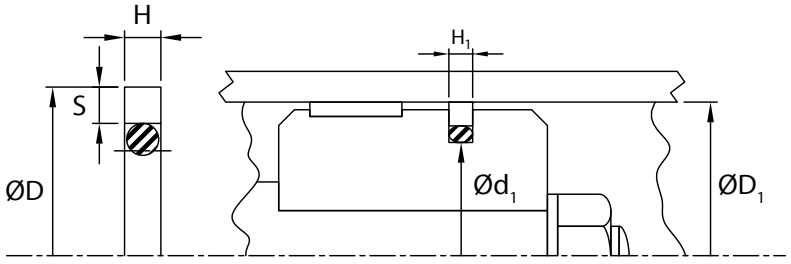
Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
62509750PR/4617*	**11.000**	9.750	0.312	136.20
50011000PR/4617*	**12.000**	11.000	0.275	142.66

Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
50011875PR/4617*	**12.875**	11.875	0.275	148.43
50014000PR/4617*	**15.000**	14.000	0.275	170.08

TFES - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
GF.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	< 12 ft/s (3.7 m/s)



The TFES-style is a bi-directional piston seal for use in low to medium duty hydraulic cylinders. Due to its compact size. it requires minimal gland space on the piston. The TFES-style offers both low break-out force and reduced wear.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP	d1	Tol.	H1	Tol.	
TFES-00500	**0.500**	+.003 -.000	0.500	0.065 - 0.075	0.065 - 0.075	-009	0.241	+.002 -.002	0.083	+.002 -.002	4.42
TFES-00625	**0.625**		0.625	0.065 - 0.075	0.065 - 0.075	-011	0.366		0.083		5.25
TFES-00750	**0.750**		0.750	0.065 - 0.075	0.065 - 0.075	-013	0.491		0.083		5.47
TFES-01000	**1.000**		1.000	0.065 - 0.075	0.065 - 0.075	-017	0.741		0.083		5.47
TFES-01125	**1.125**		1.125	0.065 - 0.075	0.065 - 0.075	-019	0.866		0.083		7.30
TFES-01250	**1.250**		1.250	0.065 - 0.075	0.065 - 0.075	-022	0.991		0.083		6.03
TFES-01375	**1.375**		1.375	0.065 - 0.075	0.065 - 0.075	-023	1.116		0.083		10.18
TFES-01500	**1.500**		1.500	0.065 - 0.075	0.065 - 0.075	-025	1.241		0.083		6.30
TFES-01625	**1.625**		1.625	0.099 - 0.119	0.099 - 0.119	-123	1.235		0.122		6.39
TFES-01750	**1.750**		1.750	0.099 - 0.119	0.099 - 0.119	-125	1.360		0.122		6.57
TFES-01875*	**1.875**		1.875	0.099 - 0.119	0.099 - 0.119	-128	1.483		0.122		12.80
TFES-02000	**2.000**		2.000	0.105 - 0.125	0.105 - 0.125	-129	1.606		0.130		6.79
TFES-02125	**2.125**		2.125	0.105 - 0.125	0.105 - 0.125	-132	1.733		0.130		12.76

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
TFES-02250	**2.250**	+.003 -.000	2.250	0.105 - 0.125	0.105 - 0.125	-133	1.856	+.002 -.002	0.130	+.002 -.002	7.09
TFES-02375	**2.375**		2.375	0.105 - 0.125	0.105 - 0.125	-135	1.981		0.130		7.13
TFES-02500	**2.500**		2.500	0.105 - 0.125	0.105 - 0.125	-137	2.106		0.130		7.16
TFES-02625	**2.625**		2.625	0.105 - 0.125	0.105 - 0.125	-139	2.235		0.130		7.37
TFES-02750	**2.750**		2.750	0.105 - 0.125	0.105 - 0.125	-141	2.356		0.130		7.22
TFES-03000	**3.000**		3.000	0.105 - 0.125	0.105 - 0.125	-145	2.606		0.130		7.42
TFES-03125	**3.125**		3.125	0.105 - 0.125	0.105 - 0.125	-148	2.733		0.130		27.03
TFES-03250	**3.250**		3.250	0.105 - 0.125	0.105 - 0.125	-149	2.856		0.130		7.54
TFES-03375	**3.375**		3.375	0.105 - 0.125	0.105 - 0.125	-150	2.983		0.130		13.96
TFES-03500	**3.500**		3.500	0.105 - 0.125	0.105 - 0.125	-151	3.106		0.130		7.77
TFES-03625	**3.625**		3.625	0.105 - 0.125	0.105 - 0.125	-151	3.233		0.130		14.34
TFES-03750	**3.750**		3.750	0.105 - 0.125	0.105 - 0.125	-152	3.360		0.130		8.43
TFES-04000	**4.000**	+.004 -.000	4.000	0.105 - 0.125	0.105 - 0.125	-153	3.606		0.130		8.56
TFES-04125*	**4.125**		4.125	0.105 - 0.125	0.105 - 0.125	-153	3.733		0.130		8.54
TFES-04250	**4.250**		4.250	0.105 - 0.125	0.105 - 0.125	-154	3.856		0.130		8.72
TFES-04400*	**4.400**		4.400	0.105 - 0.125	0.105 - 0.125	-155	4.008		0.130		27.85
TFES-04500	**4.500**		4.500	0.105 - 0.125	0.105 - 0.125	-155	4.106		0.130		9.57
TFES-04750	**4.750**		4.750	0.105 - 0.125	0.105 - 0.125	-156	4.356		0.130		14.86
TFES-04875*	**4.875**		4.875	0.105 - 0.125	0.105 - 0.125	-157	4.483		0.130		28.05
TFES-05000	**5.000**		5.000	0.105 - 0.125	0.105 - 0.125	-157	4.606		0.130		10.65
TFES-05250	**5.250**		5.250	0.105 - 0.125	0.105 - 0.125	-158	4.856		0.130		11.43
TFES-05500	**5.500**		5.500	0.105 - 0.125	0.105 - 0.125	-159	5.106		0.130		11.75
TFES-05750	**5.750**		5.750	0.133 - 0.153	0.133 - 0.153	-251	5.232		0.159		12.48
TFES-05875	**5.875**		5.875	0.133 - 0.153	0.133 - 0.153	-252	5.357		0.159		31.93
TFES-06000	**6.000**		6.000	0.133 - 0.153	0.133 - 0.153	-253	5.482		0.159		13.11
TFES-06125*	**6.125**		6.125	0.133 - 0.153	0.133 - 0.153	-254	5.607		0.159		26.99
TFES-06250	**6.250**		6.250	0.133 - 0.153	0.133 - 0.153	-255	5.732		0.159		13.98
TFES-06500	**6.500**		6.500	0.133 - 0.153	0.133 - 0.153	-257	5.982		0.159		16.63
TFES-06750*	**6.750**	+.005 -.000	6.750	0.133 - 0.153	0.133 - 0.153	-258	6.232		0.159		17.37
TFES-07000	**7.000**		7.000	0.133 - 0.153	0.133 - 0.153	-259	6.482		0.159		17.09
TFES-07250	**7.250**		7.250	0.133 - 0.153	0.133 - 0.153	-260	6.732		0.159		17.09
TFES-07500	**7.500**		7.500	0.133 - 0.153	0.133 - 0.153	-261	6.982		0.159		17.10
TFES-07750	**7.750**		7.750	0.133 - 0.153	0.133 - 0.153	-262	7.232		0.159		17.63
TFES-08000	**8.000**		8.000	0.133 - 0.153	0.133 - 0.153	-263	7.482		0.159		17.37
TFES-08125*	**8.125**		8.125	0.133 - 0.153	0.133 - 0.153	-264	7.607		0.159		37.20
TFES-08250	**8.250**		8.250	0.133 - 0.153	0.133 - 0.153	-264	7.732		0.159		42.06
TFES-08500	**8.500**		8.500	0.133 - 0.153	0.133 - 0.153	-265	7.982		0.159		49.12
TFES-08750*	**8.750**		8.750	0.133 - 0.153	0.133 - 0.153	-266	8.232		0.159		51.72
TFES-09000	**9.000**		9.000	0.133 - 0.153	0.133 - 0.153	-267	8.482		0.159		51.60
TFES-09250*	**9.250**		9.250	0.133 - 0.153	0.133 - 0.153	-268	8.732		0.159		62.38
TFES-09500*	**9.500**		9.500	0.133 - 0.153	0.133 - 0.153	-269	8.982		0.159		66.53
TFES-09750*	**9.750**		9.750	0.133 - 0.153	0.133 - 0.153	-270	9.232		0.159		72.23
TFES-10000	**10.000**		10.000	0.133 - 0.153	0.133 - 0.153	-271	9.482		0.159		72.87
TFES-10250*	**10.250**		10.250	0.133 - 0.153	0.133 - 0.153	-272	9.732		0.159		84.34
TFES-10500	**10.500**		10.500	0.133 - 0.153	0.133 - 0.153	-273	9.982		0.159		93.13
TFES-10750*	**10.750**		10.750	0.133 - 0.153	0.133 - 0.153	-274	10.232		0.159		99.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

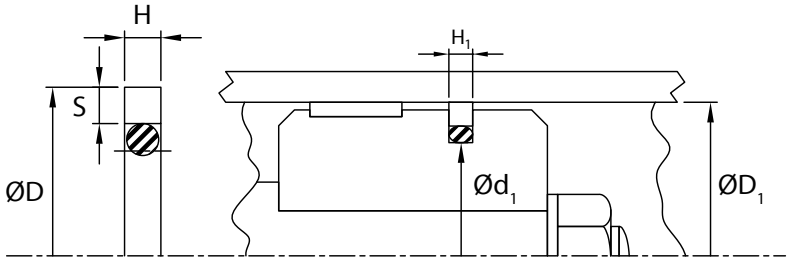
TFES series - GF.PTFE/NBR

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
TFES-11000	**11.000**	+.006 -.000	11.000	0.133 - 0.153	0.133 - 0.153	-275	10.482	+.002 -.002	0.159	+.002 -.002	100.84
TFES-11500*	**11.500**		11.500	0.133 - 0.153	0.133 - 0.153	-276	10.982		0.159		103.33
TFES-12000	**12.000**		12.000	0.133 - 0.153	0.133 - 0.153	-277	11.482		0.159		107.13
TFES-12500*	**12.500**		12.500	0.133 - 0.153	0.133 - 0.153	-278	11.982		0.159		115.20
TFES-13000	**13.000**		13.000	0.133 - 0.153	0.133 - 0.153	-278	12.482		0.159		137.87
TFES-14000*	**14.000**		14.000	0.133 - 0.153	0.133 - 0.153	-279	13.482		0.159		167.27

TFES-U - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-40°F to +200°F (-40°C to +93°C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)



The **TFES-U-style** is similar to the TFES series but with an polyurethane outer ring that can be stretched over the piston.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
TFES-00500/U*	**0.500**	+.003 -.000	0.500	0.065 - 0.075	0.065 - 0.075	-009	0.241	+.002 -.002	0.083	+.002 -.002	4.42
TFES-00625/U*	**0.625**		0.625	0.065 - 0.075	0.065 - 0.075	-011	0.366		0.083		4.79
TFES-00750/U*	**0.750**		0.750	0.065 - 0.075	0.065 - 0.075	-013	0.491		0.083		5.11
TFES-00875/U*	**0.875**		0.875	0.065 - 0.075	0.065 - 0.075	-015	0.616		0.083		5.25
TFES-01000/U*	**1.000**		1.000	0.065 - 0.075	0.065 - 0.075	-017	0.741		0.083		5.67
TFES-01125/U*	**1.125**		1.125	0.065 - 0.075	0.065 - 0.075	-019	0.866		0.083		5.86
TFES-01250/U*	**1.250**		1.250	0.065 - 0.075	0.065 - 0.075	-021	0.991		0.083		5.96
TFES-01375/U*	**1.375**		1.375	0.065 - 0.075	0.065 - 0.075	-023	1.116		0.083		6.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
TFES-01500/U*	**1.500**	+.003 -.000	1.500	0.065 - 0.075	0.065 - 0.075	-025	1.241	+.002 -.002	0.083	+.002 -.002	6.26
TFES-01562/U*	**1.562**		1.562	0.104 - 0.114	0.104 - 0.114	-122	1.172		0.122		6.56
TFES-01625/U*	**1.625**		1.625	0.104 - 0.114	0.104 - 0.114	-123	1.235		0.122		6.60
TFES-01687/U*	**1.687**		1.687	0.104 - 0.114	0.104 - 0.114	-124	1.297		0.122		6.67
TFES-01750/U*	**1.750**		1.750	0.104 - 0.114	0.104 - 0.114	-125	1.360		0.122		6.50
TFES-01812/U*	**1.812**		1.812	0.104 - 0.114	0.104 - 0.114	-126	1.422		0.122		6.71
TFES-01875/U*	**1.875**		1.875	0.104 - 0.114	0.104 - 0.114	-127	1.485		0.122		6.77
TFES-01937/U*	**1.937**		1.937	0.104 - 0.114	0.104 - 0.114	-128	1.548		0.122		6.91
TFES-02000/U*	**2.000**		2.000	0.109 - 0.121	0.109 - 0.121	-129	1.606		0.129		6.77
TFES-02125/U*	**2.125**		2.125	0.109 - 0.121	0.109 - 0.121	-131	1.731		0.129		7.05
TFES-02250/U*	**2.250**		2.250	0.109 - 0.121	0.109 - 0.121	-133	1.856		0.129		6.96
TFES-02375/U*	**2.375**		2.375	0.109 - 0.121	0.109 - 0.121	-135	1.981		0.129		7.01
TFES-02500/U*	**2.500**		2.500	0.109 - 0.121	0.109 - 0.121	-137	2.106		0.129		7.04
TFES-02750/U*	**2.750**		2.750	0.109 - 0.121	0.109 - 0.121	-141	2.356		0.129		7.15
TFES-03000/U*	**3.000**	+.004 -.000	3.000	0.109 - 0.121	0.109 - 0.121	-145	2.606		0.129		7.34
TFES-03250/U*	**3.250**		3.250	0.109 - 0.121	0.109 - 0.121	-149	2.856		0.129		7.50
TFES-03500/U*	**3.500**		3.500	0.109 - 0.121	0.109 - 0.121	-151	3.106		0.129		7.72
TFES-03750/U*	**3.750**		3.750	0.109 - 0.121	0.109 - 0.121	-152	3.356		0.129		7.89
TFES-04000/U*	**4.000**		4.000	0.109 - 0.121	0.109 - 0.121	-153	3.606		0.129		8.43
TFES-04250/U*	**4.250**		4.250	0.109 - 0.121	0.109 - 0.121	-154	3.856		0.129		8.67
TFES-04500/U*	**4.500**		4.500	0.109 - 0.121	0.109 - 0.121	-155	4.106		0.129		9.55
TFES-04750/U*	**4.750**		4.750	0.109 - 0.121	0.109 - 0.121	-156	4.356		0.129		9.87
TFES-05000/U*	**5.000**		5.000	0.109 - 0.121	0.109 - 0.121	-157	4.606		0.129		10.56
TFES-05250/U*	**5.250**		5.250	0.109 - 0.121	0.109 - 0.121	-158	4.856		0.129		11.21
TFES-05500/U*	**5.500**		5.500	0.109 - 0.121	0.109 - 0.121	-159	5.106		0.129		11.81
TFES-05750/U*	**5.750**		5.750	0.136 - 0.150	0.136 - 0.150	-251	5.232		0.159		13.08
TFES-06000/U*	**6.000**		6.000	0.136 - 0.150	0.136 - 0.150	-253	5.482		0.159		16.76
TFES-06250/U*	**6.250**		6.250	0.136 - 0.150	0.136 - 0.150	-255	5.732		0.159		17.72
TFES-06500/U*	**6.500**		6.500	0.136 - 0.150	0.136 - 0.150	-257	5.982		0.159		17.62
TFES-06750/U*	**6.750**	+.005 -.000	6.750	0.136 - 0.150	0.136 - 0.150	-258	6.232		0.159		18.73
TFES-07000/U*	**7.000**		7.000	0.136 - 0.150	0.136 - 0.150	-259	6.482		0.159		18.60
TFES-07250/U*	**7.250**		7.250	0.136 - 0.150	0.136 - 0.150	-260	6.732		0.159		19.29
TFES-07500/U*	**7.500**		7.500	0.136 - 0.150	0.136 - 0.150	-261	6.982		0.159		19.84
TFES-07750/U*	**7.750**		7.750	0.136 - 0.150	0.136 - 0.150	-262	7.232		0.159		20.34
TFES-08000/U*	**8.000**		8.000	0.136 - 0.150	0.136 - 0.150	-263	7.482		0.159		20.94
TFES-08250/U*	**8.250**		8.250	0.136 - 0.150	0.136 - 0.150	-264	7.732		0.159		21.61
TFES-08500/U*	**8.500**		8.500	0.136 - 0.150	0.136 - 0.150	-265	7.982		0.159		21.13
TFES-09000/U*	**9.000**		9.000	0.136 - 0.150	0.136 - 0.150	-267	8.482		0.159		24.46
TFES-09500/U*	**9.500**		9.500	0.136 - 0.150	0.136 - 0.150	-269	8.982		0.159		25.50
TFES-10000/U*	**10.000**		10.000	0.136 - 0.150	0.136 - 0.150	-271	9.482		0.159		25.71
TFES-11000/U*	**11.000**	+.006 -.000	11.000	0.136 - 0.150	0.136 - 0.150	-274	10.482		0.159		29.13
TFES-12000/U*	**12.000**		12.000	0.136 - 0.150	0.136 - 0.150	-276	11.482		0.159		31.70

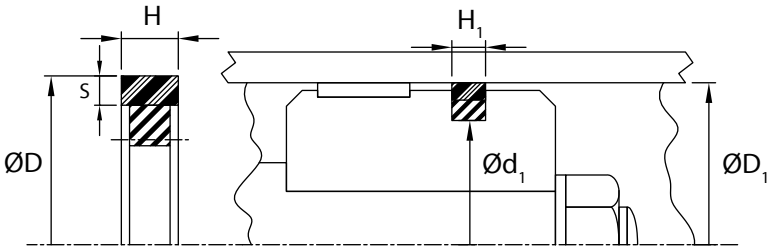
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



160G - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
GF.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)



The **160G-style** is a bi-directional piston seal for use in medium-duty hydraulic cylinder applications. Its 2-piece design is comprised of a glass-filled PTFE dynamic element and a square elastomeric expander ring. This seal offers low friction. low-wear and extrusion protection.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
160G01000	**1.000**	+.003 -.000	1.000	0.055 - 0.060	0.088 - 0.093	-019	0.787	+.000 -.003	0.094	+.003 -.000	7.71
160G01125*	**1.125**		1.125	0.055 - 0.060	0.088 - 0.093	-020	0.912		0.094		7.89
160G01250	**1.250**		1.250	0.055 - 0.060	0.088 - 0.093	-021	1.037		0.094		8.09
160G01375	**1.375**		1.375	0.055 - 0.060	0.088 - 0.093	-022	1.162		0.094		8.23
160G01500	**1.500**		1.500	0.055 - 0.060	0.088 - 0.093	-023	1.287		0.094		8.47
160G01625	**1.625**		1.625	0.055 - 0.060	0.088 - 0.093	-024	1.412		0.094		8.75
160G01750	**1.750**		1.750	0.060 - 0.065	0.088 - 0.093	-025	1.473		0.094		9.56
160G01875	**1.875**		1.875	0.060 - 0.065	0.120 - 0.125	-026	1.598		0.126		9.86
160G02000	**2.000**		2.000	0.060 - 0.065	0.120 - 0.125	-027	1.723		0.126		10.66
160G02250	**2.250**		2.250	0.060 - 0.065	0.120 - 0.125	-028	1.937		0.126		11.34
160G02375	**2.375**		2.375	0.060 - 0.065	0.120 - 0.125	-029	2.098		0.126		11.87
160G02500	**2.500**		2.500	0.060 - 0.065	0.120 - 0.125	-030	2.223		0.126		11.87
160G02750	**2.750**		2.750	0.085 - 0.090	0.150 - 0.155	-031	2.348		0.157		14.17
160G03000	**3.000**	+.004 -.000	3.000	0.085 - 0.090	0.150 - 0.155	-032	2.603		0.157		18.26
160G03250	**3.250**		3.250	0.085 - 0.090	0.150 - 0.155	-033	2.853		0.157		19.25
160G03500	**3.500**		3.500	0.085 - 0.090	0.150 - 0.155	-034	3.103		0.157		19.82
160G03750	**3.750**		3.750	0.085 - 0.090	0.150 - 0.155	-035	3.353		0.157		19.94
160G04000	**4.000**		4.000	0.085 - 0.090	0.150 - 0.155	-036	3.600		0.157		20.37
160G04250	**4.250**		4.250	0.085 - 0.090	0.150 - 0.155	-037	3.853		0.157		20.31
160G04500	**4.500**		4.500	0.085 - 0.090	0.150 - 0.155	-038	4.103		0.157		20.56
160G04750	**4.750**		4.750	0.085 - 0.090	0.150 - 0.155	-039	4.353		0.157		25.07
160G05000	**5.000**		5.000	0.085 - 0.090	0.150 - 0.155	-040	4.603		0.157		25.51

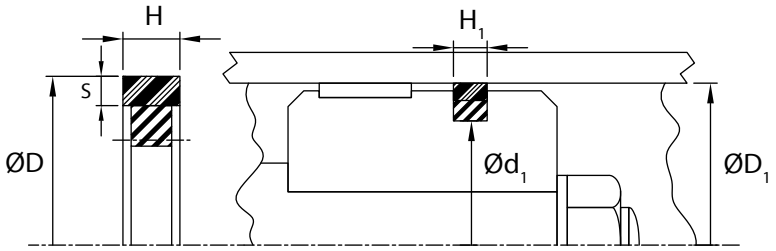
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	Tol.		D	S	H	EXP	d1	Tol.	H1	Tol.	
160G05250	**5.250**	+.004 -.000	5.250	0.085 - 0.090	0.150 - 0.155	-041	4.853	+.000 -.003	0.157	+.003 -.000	27.25
160G05500	**5.500**		5.500	0.085 - 0.090	0.150 - 0.155	-042	5.103		0.157		28.90
160G05750*	**5.750**		5.750	0.085 - 0.090	0.150 - 0.155	-043	5.353		0.157		35.36
160G06000	**6.000**		6.000	0.120 - 0.125	0.287 - 0.292	-044	5.305		0.293		40.13
160G06500*	**6.500**		6.500	0.120 - 0.125	0.287 - 0.292	-045	5.805		0.293		58.43
160G07000*	**7.000**	+.005 -.000	7.000	0.120 - 0.125	0.287 - 0.292	-046	6.305		0.293		60.86
160G07500*	**7.500**		7.500	0.120 - 0.125	0.287 - 0.292	-047	6.805		0.293		65.87
160G08000*	**8.000**		8.000	0.120 - 0.125	0.287 - 0.292	-048	7.305		0.293		70.44

TFER/G - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
GF.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	< 12 ft/s (3.7 m/s)



Dimensionally identical to the **TFER/B-style**, the **TFER/G-style** with its high glass fiber content offers you superior extrusion resistance.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	Tol.		D	S	H	EXP	d1	Tol.	H1	Tol.	
TFER-01000/G	**1.000**	+.003 -.000	1.000	0.067 - 0.073	0.116 - 0.121	-115	0.690	+.000 -.004	0.125	+.002 -.000	7.22
TFER-01250/G	**1.250**		1.250	0.067 - 0.073	0.116 - 0.121	-119	0.940		0.125		7.36
TFER-01500/G	**1.500**		1.500	0.067 - 0.073	0.116 - 0.121	-123	1.190		0.125		7.57
TFER-01750/G	**1.750**		1.750	0.067 - 0.073	0.116 - 0.121	-127	1.440		0.125		8.35
TFER-02000/G	**2.000**		2.000	0.067 - 0.073	0.116 - 0.121	-131	1.690		0.125		10.15
TFER-02250/G	**2.250**		2.250	0.067 - 0.073	0.116 - 0.121	-135	1.940		0.125		11.33
TFER-02500/G	**2.500**		2.500	0.067 - 0.073	0.116 - 0.121	-139	2.190		0.125		11.42
TFER-02750/G	**2.750**		2.750	0.067 - 0.073	0.116 - 0.121	-143	2.440		0.125		13.75

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

TFER/G series - GF.PTFE/NBR

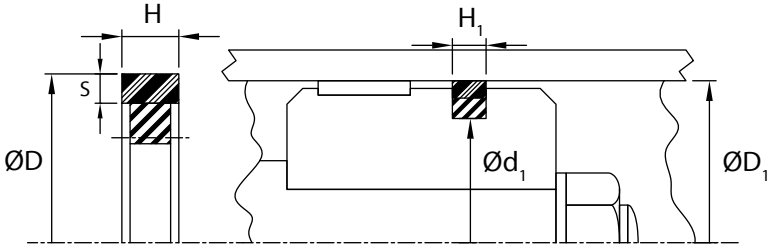
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
TFER-03000/G	**3.000**	+.004 -.000	3.000	0.087 - 0.093	0.269 - 0.274	-333	2.444	+.000 -.004	0.278	+.002 -.000	14.76
TFER-03250/G	**3.250**		3.250	0.087 - 0.093	0.269 - 0.274	-335	2.694		0.278		17.50
TFER-03500/G	**3.500**		3.500	0.087 - 0.093	0.269 - 0.274	-337	2.944		0.278		19.28
TFER-03750/G	**3.750**		3.750	0.087 - 0.093	0.269 - 0.274	-339	3.194		0.278		21.92
TFER-04000/G	**4.000**		4.000	0.087 - 0.093	0.269 - 0.274	-341	3.444		0.278		24.36
TFER-04250/G	**4.250**		4.250	0.087 - 0.093	0.269 - 0.274	-343	3.694		0.278		28.13
TFER-04500/G	**4.500**		4.500	0.087 - 0.093	0.269 - 0.274	-345	3.944		0.278		29.52
TFER-04625/G*	**4.625**		4.625	0.087 - 0.093	0.269 - 0.274	-346	4.078		0.278		43.60
TFER-04750/G	**4.750**		4.750	0.087 - 0.093	0.269 - 0.274	-347	4.194		0.278		30.44
TFER-05000/G	**5.000**		5.000	0.087 - 0.093	0.269 - 0.274	-349	4.444		0.278		31.86
TFER-05250/G	**5.250**		5.250	0.137 - 0.147	0.362 - 0.367	-425	4.476	+.000 -.010	0.375	+.005 -.000	37.54
TFER-05500/G	**5.500**		5.500	0.137 - 0.147	0.362 - 0.367	-427	4.726		0.375		41.98
TFER-05625/G*	**5.625**		5.625	0.137 - 0.147	0.362 - 0.367	-428	4.863		0.375		51.20
TFER-05750/G	**5.750**		5.750	0.137 - 0.147	0.362 - 0.367	-429	4.976		0.375		45.36
TFER-06000/G	**6.000**		6.000	0.137 - 0.147	0.362 - 0.367	-431	5.226		0.375		48.67
TFER-06250/G	**6.250**		6.250	0.137 - 0.147	0.362 - 0.367	-433	5.476		0.375		49.15
TFER-06500/G	**6.500**		6.500	0.137 - 0.147	0.362 - 0.367	-435	5.726		0.375		49.15
TFER-07000/G	**7.000**	+.005 -.000	7.000	0.137 - 0.147	0.362 - 0.367	-438	6.226		0.375		50.05
TFER-07250/G*	**7.250**		7.250	0.137 - 0.147	0.362 - 0.367	-439	6.476		0.375		56.40
TFER-07500/G	**7.500**		7.500	0.137 - 0.147	0.362 - 0.367	-440	6.726		0.375		50.16
TFER-08000/G	**8.000**		8.000	0.137 - 0.147	0.362 - 0.367	-442	7.226		0.375		55.88
TFER-08250/G*	**8.250**		8.250	0.137 - 0.147	0.362 - 0.367	-443	7.476		0.375		59.53
TFER-08500/G	**8.500**		8.500	0.137 - 0.147	0.362 - 0.367	-444	7.726		0.375		63.24
TFER-09000/G	**9.000**		9.000	0.195 - 0.210	0.362 - 0.367	-445	8.122		0.375		74.81
TFER-09500/G*	**9.500**		9.500	0.195 - 0.210	0.362 - 0.367	-446	8.622		0.375		85.13
TFER-10000/G	**10.000**		10.000	0.195 - 0.210	0.362 - 0.367	-447	9.122		0.375		83.24
TFER-10500/G*	**10.500**		10.500	0.195 - 0.210	0.362 - 0.367	-448	9.622		0.375		177.58
TFER-11000/G	**11.000**	+.006 -.000	11.000	0.195 - 0.210	0.362 - 0.367	-449	10.122		0.375		189.72
TFER-12000/G	**12.000**		12.000	0.195 - 0.210	0.362 - 0.367	-451	11.122		0.375		196.79
TFER-12500/G*	**12.500**		12.500	0.195 - 0.210	0.362 - 0.367	-452	11.622		0.375		209.22
TFER-13000/G	**13.000**		13.000	0.195 - 0.210	0.362 - 0.367	-453	12.122		0.375		177.62
TFER-14000/G	**14.000**		14.000	0.195 - 0.210	0.362 - 0.367	-455	13.122		0.375		213.44
TFER-16000/G	**16.000**		16.000	0.195 - 0.210	0.362 - 0.367	-459	15.122		0.375		375.90

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CAT TYPE 1 - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
GF.PTFE/Nitrile	-30°F to +230°F (-34°C to +110°C)	≤5800 psi (≤400 bar)	<12 ft/s (3.7 m/s)



Two-Piece piston seal for **Caterpillar®** specific equipment. .

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

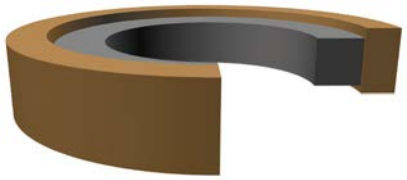
Ref. Number	Bore Diameter	Tol.	Housing Dimensions d1	Tol.	H1	Tol.	$
CAT-3E4277*	**1.000**	+.003 -.000	0.691	+.003 -.003	0.129	+.002 -.002	10.27
CAT-3E4278*	**1.250**		0.941		0.129		10.56
CAT-5J9822	**1.500**		1.106		0.118		11.17
CAT-3E4279	**1.750**		1.441		0.129		11.81
CAT-5J7004	**2.000**		1.625		0.192		12.55
CAT-1U3998	**2.250**		1.875		0.192		13.75
CAT-8J6213	**2.500**		2.125		0.192		14.93
CAT-5J7010	**2.750**		2.375		0.192		22.82
CAT-6J1972	**3.000**	+.004 -.000	2.460		0.192		16.80
CAT-6J0793	**3.250**		2.710		0.192		23.84
CAT-5J7013	**3.500**		2.960		0.190		18.10
CAT-5J8011	**3.750**		3.210		0.192		30.34
CAT-9J9872	**4.000**		3.210		0.190		24.15
CAT-5J5402	**4.000**		3.335		0.252		23.60
CAT-7J2032	**4.000**		3.482		0.252		43.69
CAT-4T0529*	**4.125**		3.460		0.250		28.60
CAT-5J7854	**4.250**		3.585		0.252		25.48
CAT-5J4986	**4.500**		3.835		0.252		29.46
CAT-5J4987	**4.750**		4.090		0.250		32.19
CAT-9X7542	**4.750**		4.090		0.250		34.20
CAT-5J5020	**5.000**		4.225		0.379		34.89

Ref. Number	Bore Diameter	Tol.	Housing Dimensions d1	Tol.	H1	Tol.	$
CAT-5J7234*	**5.250**	+.004 -.000	4.480	+.003 -.003	0.380	+.002 -.002	38.96
CAT-5J4988	**5.500**		4.725		0.379		34.09
CAT-9J4981	**5.750**		4.975		0.379		47.86
CAT-5J4989	**6.000**		5.095		0.379		39.41
CAT-5J4990	**6.250**		5.345		0.379		40.27
CAT-5J4991	**6.500**		5.595		0.379		45.24
CAT-5J4997	**7.000**		6.095		0.379		49.04
CAT-5J4993	**7.250**		6.345		0.379		54.70
CAT-9J7117	**7.500**	+.005 -.000	6.595		0.379		93.28
CAT-5J7016*	**7.750**		6.845		0.379		86.44
CAT-3E4280	**8.000**		7.254		0.379		74.11
CAT-5J5559	**8.250**		7.255		0.379		47.26
CAT-6J9385	**8.500**		7.505		0.379		64.40
CAT-3E4281*	**9.000**		8.137		0.379		82.53
CAT-5J7019	**9.250**		8.255		0.379		69.56
CAT-8T6923	**9.500**		8.380		0.440		243.20
CAT-3E4282*	**9.500**		8.637		0.379		74.57
CAT-1214179	**10.000**		8.880		0.440		143.67
CAT-5J6762*	**10.500**		9.380		0.440		238.01
CAT-6E0253*	**11.000**	+.006/-.000	9.880		0.440		223.23

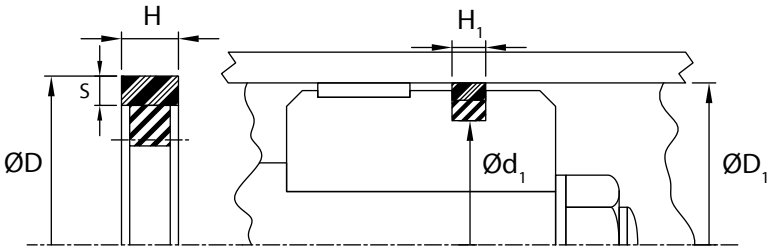
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

All manufacturer's names. part numbers and descriptions are use for reference purpose only.
We do not imply that any part shown is the product of these manufacturers.

TFER/B - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	< 12 ft/s (3.7 m/s)



Similar in design to the **160G-style**, the **TFER/B-style** is of a heavier cross-sectional sizing to offer outstanding performance in heavy-duty applications. The bronze-filled PTFE outer ring allows for greatly reduced wear rates resulting in extended durability.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP	d1	Tol.	H1	Tol.	
TFER-01000/B*	**1.000**	+.003 -.000	1.000	0.067 - 0.073	0.116 - 0.121	-115	0.690	+.000 -.004	0.125	+.002 -.000	12.03
TFER-01250/B	**1.250**		1.250	0.067 - 0.073	0.116 - 0.121	-119	0.940		0.125		11.36
TFER-01500/B	**1.500**		1.500	0.067 - 0.073	0.116 - 0.121	-123	1.190		0.125		11.85
TFER-01750/B	**1.750**		1.750	0.067 - 0.073	0.116 - 0.121	-127	1.440		0.125		12.77
TFER-02000/B	**2.000**		2.000	0.067 - 0.073	0.116 - 0.121	-131	1.690		0.125		14.68
TFER-02250/B	**2.250**		2.250	0.067 - 0.073	0.116 - 0.121	-135	1.940		0.125		15.06
TFER-02500/B	**2.500**		2.500	0.067 - 0.073	0.116 - 0.121	-139	2.190		0.125		16.07
TFER-02750/B	**2.750**		2.750	0.067 - 0.073	0.116 - 0.121	-143	2.440		0.125		17.82
TFER-03000/B	**3.000**	+.004 -.000	3.000	0.087 - 0.093	0.269 - 0.274	-333	2.444		0.278		19.09
TFER-03250/B	**3.250**		3.250	0.087 - 0.093	0.269 - 0.274	-335	2.694		0.278		22.69
TFER-03500/B	**3.500**		3.500	0.087 - 0.093	0.269 - 0.274	-337	2.944		0.278		25.00
TFER-03750/B	**3.750**		3.750	0.087 - 0.093	0.269 - 0.274	-339	3.194		0.278		28.38
TFER-04000/B	**4.000**		4.000	0.087 - 0.093	0.269 - 0.274	-341	3.444		0.278		31.55
TFER-04250/B	**4.250**		4.250	0.087 - 0.093	0.269 - 0.274	-343	3.694		0.278		36.45
TFER-04500/B	**4.500**		4.500	0.087 - 0.093	0.269 - 0.274	-345	3.944		0.278		38.27
TFER-04750/B	**4.750**		4.750	0.087 - 0.093	0.269 - 0.274	-347	4.194		0.278		39.42
TFER-05000/B	**5.000**		5.000	0.087 - 0.093	0.269 - 0.274	-349	4.444		0.278		41.30
TFER-05250/B	**5.250**		5.250	0.137 - 0.147	0.362 - 0.367	-425	4.476	+.000 -.010	0.375	+.005 -.000	48.65
TFER-05500/B	**5.500**		5.500	0.137 - 0.147	0.362 - 0.367	-427	4.726		0.375		54.40
TFER-05750/B	**5.750**		5.750	0.137 - 0.147	0.362 - 0.367	-429	4.976		0.375		58.75
TFER-06000/B	**6.000**		6.000	0.137 - 0.147	0.362 - 0.367	-431	5.226		0.375		63.09
TFER-06250/B	**6.250**		6.250	0.137 - 0.147	0.362 - 0.367	-433	5.476		0.375		63.09

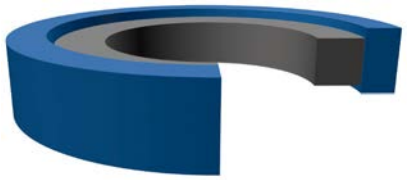
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
TFER-06500/B	**6.500**	+.004/-.000	6.500	0.137 - 0.147	0.362 - 0.367	-435	5.726	+.000 -.010	0.375	+.005 -.000	63.69
TFER-07000/B	**7.000**	+.005 -.000	7.000	0.137 - 0.147	0.362 - 0.367	-438	6.226		0.375		66.50
TFER-07250/B	**7.250**		7.250	0.137 - 0.147	0.362 - 0.367	-439	6.476		0.375		62.65
TFER-07500/B	**7.500**		7.500	0.137 - 0.147	0.362 - 0.367	-440	6.726		0.375		62.75
TFER-07750/B	**7.750**		7.750	0.137 - 0.147	0.362 - 0.367	-441	6.976		0.375		67.73
TFER-08000/B	**8.000**		8.000	0.137 - 0.147	0.362 - 0.367	-442	7.226		0.375		71.59
TFER-08250/B*	**8.250**		8.250	0.137 - 0.147	0.362 - 0.367	-443	7.476		0.375		76.57
TFER-08500/B	**8.500**		8.500	0.137 - 0.147	0.362 - 0.367	-444	7.726		0.375		84.06
TFER-09000/B	**9.000**		9.000	0.195 - 0.210	0.362 - 0.367	-445	8.122		0.375		96.67
TFER-09500/B	**9.500**		9.500	0.195 - 0.210	0.362 - 0.367	-446	8.622		0.375		122.10
TFER-09750/B	**9.750**		9.750	0.195 - 0.210	0.362 - 0.367	-446	8.872		0.375		165.00
TFER-10000/B	**10.000**		10.000	0.195 - 0.210	0.362 - 0.367	-447	9.122		0.375		133.06
TFER-10500/B	**10.500**		10.500	0.195 - 0.210	0.362 - 0.367	-448	9.622		0.375		213.56
TFER-11000/B	**11.000**	+.006 -.000	11.000	0.195 - 0.210	0.362 - 0.367	-449	10.122		0.375		237.18
TFER-12000/B	**12.000**		12.000	0.195 - 0.210	0.362 - 0.367	-451	11.122		0.375		246.00
TFER-12500/B*	**12.500**		12.500	0.195 - 0.210	0.362 - 0.367	-452	11.622		0.375		371.39
TFER-13000/B	**13.000**		13.000	0.195 - 0.210	0.362 - 0.367	-453	12.122		0.375		255.18
TFER-14000/B	**14.000**		14.000	0.195 - 0.210	0.362 - 0.367	-455	13.122		0.375		245.27
TFER-15000/B	**15.000**		15.000	0.195 - 0.210	0.362 - 0.367	-457	14.122		0.375		337.46
TFER-15500/B	**15.500**		15.500	0.195 - 0.210	0.362 - 0.367	-458	14.622		0.375		386.52
TFER-16000/B	**16.000**		16.000	0.195 - 0.210	0.362 - 0.367	-459	15.122		0.375		497.71
TFER-17000/B*	**17.000**		17.000	0.195 - 0.210	0.362 - 0.367	-461	16.122		0.375		506.89
TFER-20000/B	**20.000**		20.000	0.195 - 0.210	0.362 - 0.367	-467	19.122		0.375		908.14

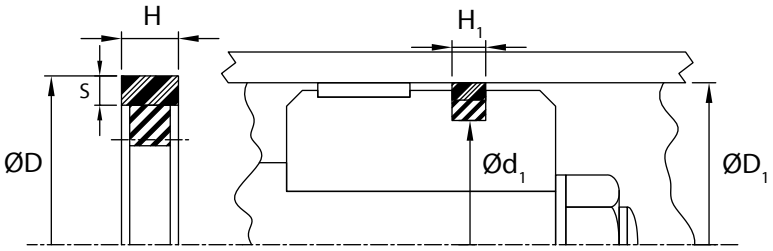
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



TFER/U - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-40°F to +220°F (-40°C to +104°C)	≤5000 psi (≤345 bar)	< 2 ft/s (0.6 m/s)



The **TFER/U-style** piston seal is a compact. low friction seal designed for low to medium duty hydraulic applications. It comprises of a tough. polyurethane dynamic sealing element which is pre-loaded by a square section elastomeric ring.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP	d1	Tol.	H1	Tol.	
TFER-01000/U	**1.000**	+.002 -.000	1.000	0.067 - 0.073	0.116 - 0.121	-115	0.691	+.001/-.001	0.129	+.002 -.002	7.74
TFER-01250/U	**1.250**		1.250	0.067 - 0.073	0.116 - 0.121	-119	0.941	+.002 -.002	0.129		7.74
TFER-01500/U	**1.500**		1.500	0.067 - 0.073	0.116 - 0.121	-123	1.191		0.129		8.06
TFER-01750/U	**1.750**		1.750	0.067 - 0.073	0.116 - 0.121	-127	1.441		0.129		8.06
TFER-02000/U	**2.000**	+.003 -.000	2.000	0.067 - 0.073	0.116 - 0.121	-131	1.691		0.129		8.71
TFER-02000/U-1*	**2.000**		2.000	0.106 - 0.125	0.116 - 0.121	-129	1.606		0.129		9.05
TFER-02000/U-2	**2.000**		2.000	0.102 - 0.108	0.269 - 0.274	-325	1.462		0.283	+.003/-.003	13.56
TFER-02250/U	**2.250**		2.250	0.067 - 0.073	0.116 - 0.121	-135	1.941		0.129	+.002 -.002	9.17
TFER-02500/U	**2.500**		2.500	0.067 - 0.073	0.116 - 0.121	-139	2.191		0.129		9.58
TFER-02500/U-1*	**2.500**		2.500	0.105 - 0.125	0.116 - 0.121	-137	2.106		0.129		9.77
TFER-02500/U-2	**2.500**		2.500	0.102 - 0.108	0.269 - 0.274	-329	1.962		0.283	+.003/-.003	13.75
TFER-02750/U	**2.750**		2.750	0.067 - 0.073	0.116 - 0.121	-143	2.441		0.129	+.002/-.002	9.84
TFER-03000/U	**3.000**		3.000	0.087 - 0.093	0.269 - 0.274	-333	2.462		0.283	+.003 -.003	12.11
TFER-03250/U	**3.250**		3.250	0.087 - 0.093	0.269 - 0.274	-335	2.712		0.283		14.41
TFER-03500/U	**3.500**		3.500	0.087 - 0.093	0.269 - 0.274	-337	2.962		0.283		14.63
TFER-03500/755	**3.500**		3.500	0.087 - 0.093	0.269 - 0.274	-337	2.962		0.283		16.07
TFER-03750/U	**3.750**		3.750	0.087 - 0.093	0.269 - 0.274	-339	3.212		0.283		14.79
TFER-04000/U	**4.000**		4.000	0.087 - 0.093	0.269 - 0.274	-341	3.462		0.283		15.13
TFER-04250/U	**4.250**		4.250	0.087 - 0.093	0.269 - 0.274	-343	3.712		0.283		15.23
TFER-04500/U	**4.500**		4.500	0.087 - 0.093	0.269 - 0.274	-345	3.962		0.283		15.71
TFER-04500/755	**4.500**		4.500	0.087 - 0.093	0.269 - 0.274	-345	3.962		0.283		16.15
TFER-04750/U	**4.750**	+.004/-.000	4.750	0.087 - 0.093	0.269 - 0.274	-347	4.212		0.283		16.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Housing Dimensions d1	Tol.	H1	Tol.	$
TFER-05000/U	**5.000**	+.004 -.000	5.000	0.087 - 0.093	0.269 - 0.274	-349	4.462	+.002 -.002	0.283	+.003/-.003	18.70
TFER-05250/U	**5.250**		5.250	0.137 - 0.147	0.362 - 0.367	-425	4.504		0.378	+.004 -.004	26.09
TFER-05500/U	**5.500**		5.500	0.137 - 0.147	0.362 - 0.367	-427	4.754	+.003 -.003	0.378		26.31
TFER-05500/755	**5.500**		5.500	0.137 - 0.147	0.362 - 0.367	-427	4.754		0.378		32.79
TFER-05750/U*	**5.750**		5.750	0.137 - 0.147	0.362 - 0.367	-429	5.004		0.378		31.40
TFER-06000/U	**6.000**		6.000	0.137 - 0.147	0.362 - 0.367	-431	5.254		0.378		27.49
TFER-06250/U*	**6.250**		6.250	0.137 - 0.147	0.362 - 0.367	-433	5.504		0.378		28.32
TFER-06500/U	**6.500**		6.500	0.137 - 0.147	0.362 - 0.367	-435	5.754		0.378		28.36
TFER-07000/U	**7.000**		7.000	0.137 - 0.147	0.362 - 0.367	-438	6.254		0.378		41.28
TFER-07000/U-1	**7.000**	+.005 -.000	7.000	0.137 - 0.147	0.296 - 0.304	-438	6.250		0.312		34.45
TFER-07250/U	**7.250**		7.250	0.137 - 0.147	0.362 - 0.367	-439	6.504		0.378		29.61
TFER-07500/U	**7.500**		7.500	0.137 - 0.147	0.362 - 0.367	-440	6.754		0.378		36.16
TFER-08000/U	**8.000**		8.000	0.137 - 0.147	0.362 - 0.367	-442	7.254		0.378		36.74
TFER-08437/U*	**8.437**		8.437	0.137 - 0.147	0.362 - 0.367	-443	7.691		0.378		110.33
TFER-08500/U*	**8.500**		8.500	0.137 - 0.147	0.362 - 0.367	-444	7.754		0.378		34.51
TFER-09000/U*	**9.000**		9.000	0.195 - 0.210	0.362 - 0.367	-445	8.137		0.378		70.60
TFER-09500/U*	**9.500**		9.500	0.195 - 0.210	0.362 - 0.367	-446	8.637		0.378		46.48
TFER-10000/U*	**10.000**		10.000	0.195 - 0.210	0.362 - 0.367	-447	9.137		0.378		83.40

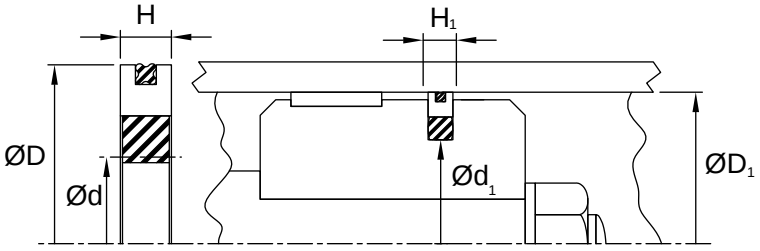
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



AQ - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	< 10 ft/s (3 m/s)



The **AQ-style** is a bi-directional piston seal for use in medium to heavy-duty hydraulic applications. With its stable, rectangular design, it incorporates a rubber four-lobed seal on the PTFE cap to insure drift-free performance.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions					Housing Dimensions				$
		Tol.	D	S	H	EXP	Q'Ring	d1	Tol.	H1	Tol.	
AQ-01000/2*	**1.000**	+.003 -.000	1.000	0.118 - 0.122	0.198 - 0.202	-207	-020	0.576	+.000 -.004	0.210	+.005 -.000	38.93
AQ-01125/2*	**1.125**		1.125	0.118 - 0.122	0.198 - 0.202	-209	-022	0.701		0.210		41.50
AQ-01250/2*	**1.250**		1.250	0.118 - 0.122	0.198 - 0.202	-211	-024	0.826		0.210		44.06
AQ-01375/2*	**1.375**		1.375	0.118 - 0.122	0.198 - 0.202	-213	-026	0.951		0.210		45.17
AQ-01500/2	**1.500**		1.500	0.118 - 0.122	0.198 - 0.202	-215	-028	1.076		0.210		45.25
AQ-01500/3	**1.500**		1.500	0.130 - 0.134	0.268 - 0.272	-316	-124	0.884		0.288		45.44
AQ-01625/2*	**1.625**		1.625	0.118 - 0.122	0.198 - 0.202	-217	-029	1.201		0.210		52.26
AQ-01750/2	**1.750**		1.750	0.118 - 0.122	0.198 - 0.202	-219	-030	1.326	+.000 -.006	0.210		55.10
AQ-01875/2*	**1.875**		1.875	0.118 - 0.122	0.198 - 0.202	-221	-031	1.451		0.210		57.65
AQ-02000/3	**2.000**		2.000	0.130 - 0.134	0.268 - 0.272	-324	-133	1.384		0.288		59.09
AQ-02125/3*	**2.125**		2.125	0.130 - 0.134	0.268 - 0.272	-325	-135	1.509		0.288		60.16
AQ-02250/3	**2.250**		2.250	0.130 - 0.134	0.268 - 0.272	-326	-137	1.634		0.288		61.12
AQ-02375/3	**2.375**		2.375	0.130 - 0.134	0.268 - 0.272	-327	-139	1.759		0.288		68.15
AQ-02500/3	**2.500**		2.500	0.130 - 0.134	0.268 - 0.272	-328	-141	1.884		0.288		64.42
AQ-02625/3*	**2.625**		2.625	0.130 - 0.134	0.268 - 0.272	-329	-143	2.009		0.288		74.01
AQ-02750/3	**2.750**		2.750	0.130 - 0.134	0.268 - 0.272	-330	-145	2.134		0.288		66.95
AQ-02875/3*	**2.875**		2.875	0.130 - 0.134	0.268 - 0.272	-331	-147	2.259		0.288		78.78
AQ-03000/3	**3.000**	+.004 -.000	3.000	0.130 - 0.134	0.268 - 0.272	-332	-149	2.384		0.288		69.52
AQ-03125/3*	**3.125**		3.125	0.130 - 0.134	0.268 - 0.272	-333	-150	2.509		0.288		83.46
AQ-03250/3	**3.250**		3.250	0.130 - 0.134	0.268 - 0.272	-334	-151	2.634		0.288		73.47
AQ-03375/3*	**3.375**		3.375	0.130 - 0.134	0.268 - 0.272	-335	-151	2.759		0.288		86.39
AQ-03500/3	**3.500**		3.500	0.130 - 0.134	0.268 - 0.272	-336	-152	2.884		0.288		74.97

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Q'Ring	Housing Dimensions d1	Tol.	H1	Tol.	$
AQ-03625/3*	**3.625**	+.004 -.000	3.625	0.130 - 0.134	0.268 - 0.272	-337	-152	3.009	+.000 -.006	0.288	+.005 -.000	89.25
AQ-03750/3	**3.750**		3.750	0.130 - 0.134	0.268 - 0.272	-338	-153	3.134		0.288		75.08
AQ-03875/3*	**3.875**		3.875	0.130 - 0.134	0.268 - 0.272	-339	-153	3.259		0.288		92.09
AQ-04000/3	**4.000**		4.000	0.130 - 0.134	0.268 - 0.272	-340	-154	3.384		0.288		75.23
AQ-04125/3*	**4.125**		4.125	0.130 - 0.134	0.268 - 0.272	-341	-154	3.509		0.288		96.98
AQ-04250/3	**4.250**		4.250	0.130 - 0.134	0.268 - 0.272	-342	-155	3.634		0.288		99.89
AQ-04375/3*	**4.375**		4.375	0.130 - 0.134	0.268 - 0.272	-343	-155	3.759		0.288		103.68
AQ-04500/3	**4.500**		4.500	0.130 - 0.134	0.268 - 0.272	-344	-156	3.884		0.288		85.48
AQ-04625/3*	**4.625**		4.625	0.130 - 0.134	0.268 - 0.272	-345	-156	4.009		0.288		109.93
AQ-04750/3	**4.750**		4.750	0.130 - 0.134	0.268 - 0.272	-346	-157	4.134	+.000 -.007	0.288		88.52
AQ-04875/3*	**4.875**		4.875	0.130 - 0.134	0.268 - 0.272	-347	-157	4.259		0.288		115.09
AQ-05000/3	**5.000**		5.000	0.130 - 0.134	0.268 - 0.272	-348	-158	4.384		0.288		92.60
AQ-05000/4	**5.000**		5.000	0.203 - 0.209	0.363 - 0.367	-422	-248	4.160		0.375		97.78
AQ-05125/3*	**5.125**		5.125	0.130 - 0.134	0.268 - 0.272	-349	-158	4.509		0.288		123.29
AQ-05250/3	**5.250**		5.250	0.130 - 0.134	0.268 - 0.272	-350	-159	4.634		0.288		104.74
AQ-05375/4*	**5.375**		5.375	0.203 - 0.209	0.363 - 0.367	-425	-251	4.535		0.375		133.71
AQ-05500/4	**5.500**		5.500	0.203 - 0.209	0.363 - 0.367	-426	-252	4.660		0.375		112.76
AQ-05625/4*	**5.625**		5.625	0.203 - 0.209	0.363 - 0.367	-427	-253	4.785		0.375		139.60
AQ-05750/4	**5.750**		5.750	0.203 - 0.209	0.363 - 0.367	-428	-254	4.910		0.375		128.74
AQ-05875/4*	**5.875**		5.875	0.203 - 0.209	0.363 - 0.367	-429	-255	5.035		0.375		146.81
AQ-06000/4	**6.000**		6.000	0.203 - 0.209	0.363 - 0.367	-430	-256	5.160		0.375		147.21
AQ-06125/4*	**6.125**		6.125	0.203 - 0.209	0.363 - 0.367	-431	-257	5.285		0.375		128.74
AQ-06250/4	**6.250**		6.250	0.203 - 0.209	0.363 - 0.367	-432	-258	5.410		0.375		155.79
AQ-06375/4*	**6.375**		6.375	0.203 - 0.209	0.363 - 0.367	-433	-258	5.535		0.375		158.67
AQ-06500/4	**6.500**		6.500	0.203 - 0.209	0.363 - 0.367	-434	-259	5.660		0.375		147.53
AQ-06625/4*	**6.625**		6.625	0.203 - 0.209	0.363 - 0.367	-435	-259	5.785		0.375		165.60
AQ-06750/4	**6.750**	+.005 -.000	6.750	0.203 - 0.209	0.363 - 0.367	-436	-260	5.910		0.375		169.99
AQ-06875/4*	**6.875**		6.875	0.203 - 0.209	0.363 - 0.367	-437	-260	6.035		0.375		174.43
AQ-07000/4	**7.000**		7.000	0.203 - 0.209	0.363 - 0.367	-437	-261	6.160	+.000 -.009	0.375		130.82
AQ-07250/4*	**7.250**		7.250	0.203 - 0.209	0.363 - 0.367	-438	-262	6.410		0.375		182.93
AQ-07500/4	**7.500**		7.500	0.203 - 0.209	0.363 - 0.367	-439	-263	6.660		0.375		186.33
AQ-07750/4*	**7.750**		7.750	0.203 - 0.209	0.363 - 0.367	-440	-264	6.910		0.375		137.46
AQ-08000/4	**8.000**		8.000	0.203 - 0.209	0.363 - 0.367	-441	-265	7.160		0.375		143.55
AQ-08250/4	**8.250**		8.250	0.203 - 0.209	0.363 - 0.367	-442	-266	7.410		0.375		199.01
AQ-08500/4	**8.500**		8.500	0.203 - 0.209	0.363 - 0.367	-443	-267	7.660		0.375		200.71
AQ-08750/4	**8.750**		8.750	0.203 - 0.209	0.363 - 0.367	-444	-268	7.910		0.375		211.53
AQ-09000/4	**9.000**		9.000	0.203 - 0.209	0.363 - 0.367	-445	-269	8.160		0.375		106.80
AQ-09250/4*	**9.250**		9.250	0.203 - 0.209	0.363 - 0.367	-445	-270	8.410		0.375		227.62
AQ-09500/4*	**9.500**		9.500	0.203 - 0.209	0.363 - 0.367	-446	-271	8.660		0.375		233.01
AQ-09750/4*	**9.750**		9.750	0.203 - 0.209	0.363 - 0.367	-446	-272	8.910		0.375		238.40
AQ-10000/4	**10.000**		10.000	0.203 - 0.209	0.363 - 0.367	-447	-273	9.160		0.375		211.97
AQ-10250/4*	**10.250**		10.250	0.203 - 0.209	0.363 - 0.367	-447	-274	9.410	+.000 -.011	0.375		274.14
AQ-10250/5	**10.250**		10.250	0.246 - 0.262	0.363 - 0.367	-447	-274	9.330		0.375		304.75
AQ-10500/4*	**10.500**		10.500	0.203 - 0.209	0.363 - 0.367	-448	-274	9.660		0.375		304.76
AQ-10500/5*	**10.500**		10.500	0.246 - 0.262	0.363 - 0.367	-448	-274	9.580		0.375		309.20
AQ-10750/5*	**10.750**		10.750	0.246 - 0.262	0.363 - 0.367	-448	-275	9.830		0.375		315.62

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

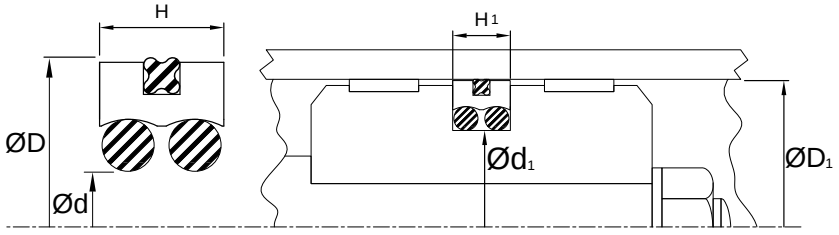
AQ series - BR.PTFE/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions					Housing Dimensions				$
		Tol.	D	S	H	EXP	Q'Ring	d1	Tol.	H1	Tol.	
AQ-11000/5*	**11.000**	+.006 -.000	11.000	0.246 - 0.262	0.363 - 0.367	-449	-275	10.080	+.000 -.011	0.375	+.005 -.000	326.32
AQ-11250/5*	**11.250**		11.250	0.246 - 0.262	0.363 - 0.367	-449	-276	10.330		0.375		336.92
AQ-11500/5*	**11.500**		11.500	0.246 - 0.262	0.363 - 0.367	-450	-276	10.580		0.375		347.86
AQ-11750/4*	**11.750**		11.750	0.203 - 0.209	0.363 - 0.367	-450	-277	10.910		0.375		350.00
AQ-11750/5*	**11.750**		11.750	0.246 - 0.262	0.363 - 0.367	-450	-277	10.830		0.375		356.86
AQ-12000/5	**12.000**		12.000	0.246 - 0.262	0.363 - 0.367	-451	-277	11.080		0.375		365.85
AQ-12250/4*	**12.250**		12.250	0.203 - 0.209	0.363 - 0.367	-451	-278	11.410		0.375		374.84
AQ-12250/5*	**12.250**		12.250	0.246 - 0.262	0.363 - 0.367	-451	-278	11.330		0.375		381.20
AQ-12500/4*	**12.500**		12.500	0.203 - 0.209	0.363 - 0.367	-452	-278	11.660		0.375		383.87
AQ-12500/5*	**12.500**		12.500	0.246 - 0.262	0.363 - 0.367	-452	-278	11.580		0.375		389.23
AQ-12750/5*	**12.750**		12.750	0.246 - 0.262	0.363 - 0.367	-452	-278	11.830		0.375		392.87
AQ-13000/5*	**13.000**		13.000	0.246 - 0.262	0.363 - 0.367	-453	-278	12.080		0.375		401.86
AQ-13250/5*	**13.250**		13.250	0.246 - 0.262	0.363 - 0.367	-453	-279	12.330		0.375		410.85
AQ-13500/5	**13.500**		13.500	0.246 - 0.262	0.363 - 0.367	-454	-279	12.580		0.375		419.88
AQ-13750/5*	**13.750**		13.750	0.246 - 0.262	0.363 - 0.367	-454	-279	12.830		0.375		428.87
AQ-14000/4*	**14.000**		14.000	0.203 - 0.209	0.363 - 0.367	-455	-279	13.160		0.375		411.15
AQ-14000/5*	**14.000**		14.000	0.246 - 0.262	0.363 - 0.367	-455	-279	13.080		0.375		437.86

AQ5 - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	< 10 ft/s (3 m/s)



The **AQ5-style** are double-acting hydraulic piston seals designed for high-performance, heavy-duty applications. It incorporates a rubber four-lobed seal on the PTFE cap to insure driftfree performance and is energized by two O'rings to improve sealing behavior.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions					Housing Dimensions				$
		Tol.	D	S	H	EXP	Q'Ring	d1	Tol.	H1	Tol.	
AQ5-05000/3*	**5.000**	+.004 -.000				-347	-247	4.292	+.000 -.006	0.484	+.005 -.000	124.60
AQ5-05250/3*	**5.250**					-349	-249	4.542		0.484		134.80

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP	Q'Ring	Housing Dimensions d1	Tol.	H1	Tol.	$
AQ5-05500/3*	**5.500**	+.004 -.000				-351	-251	4.792	+.000 -.006	0.484	+.005 -.000	148.90
AQ5-05750/3*	**5.750**					-353	-253	5.042		0.484		159.60
AQ5-06000/3*	**6.000**					-355	-255	5.292		0.484		164.21
AQ5-06250/3*	**6.250**					-357	-257	5.542		0.484		171.87
AQ5-06500/3*	**6.500**					-359	-258	5.792		0.484		172.88
AQ5-06750/3*	**6.750**					-361	-259	6.042		0.484		179.21
AQ5-07000/3*	**7.000**					-362	-260	6.292		0.484		183.40
AQ5-07250/3*	**7.250**					-363	-261	6.542		0.484		184.85
AQ5-07500/3*	**7.500**					-364	-262	6.792		0.484		195.60
AQ5-07750/3*	**7.750**					-365	-263	7.042		0.484		204.90
AQ5-08000/3*	**8.000**					-366	-264	7.292		0.484		218.26
AQ5-08250/3*	**8.250**					-367	-265	7.542		0.484		229.40
AQ5-08500/3*	**8.500**					-368	-266	7.792		0.484		247.20
AQ5-08750/3*	**8.750**					-369	-267	8.042		0.484		259.40
AQ5-09000/3*	**9.000**					-370	-268	8.292		0.484		264.23
AQ5-09250/3*	**9.250**					-371	-269	8.542		0.484		268.19
AQ5-09500/3*	**9.500**					-372	-270	8.792		0.484		269.75
AQ5-09750/3*	**9.750**					-373	-271	9.042		0.484		278.87
AQ5-10000/3*	**10.000**					-374	-272	9.292		0.484		284.92
AQ5-10250/3*	**10.250**					-375	-273	9.542		0.484		314.20
AQ5-10500/3*	**10.500**					-376	-274	9.792		0.484		345.60
AQ5-10750/3*	**10.750**					-377	-275	10.042		0.484		388.88
AQ5-11000/3*	**11.000**					-377	-275	10.292		0.484		445.20
AQ5-11250/3*	**11.250**					-378	-276	10.542		0.484		489.90
AQ5-11500/3*	**11.500**					-378	-276	10.792		0.484		524.80
AQ5-11750/3*	**11.750**					-379	-277	11.042		0.484		574.21
AQ5-12000/3*	**12.000**					-379	-277	11.292		0.484		599.99
AQ5-14000/4*	**14.000**	+.008/-.000				-454	-382	12.780	+.008/-.000	0.642		701.21
AQ5-17750/3*	**17.750**	+.004 -.000				-386	-283	17.042	+.000 -.006	0.484		645.90
AQ5-18500/3*	**18.500**					-386	-284	17.792		0.484		687.84

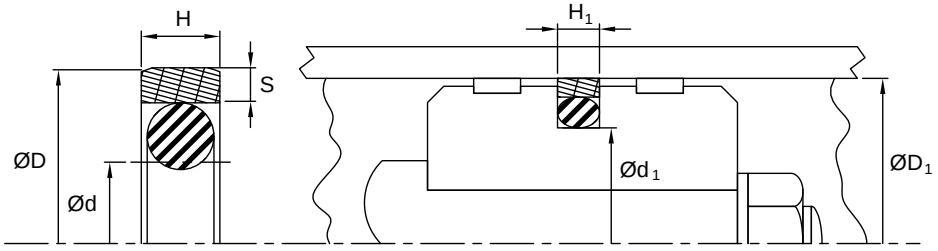
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



PS2470 - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	< 12 ft/s (3.7 m/s)



A compact bi-directional seal designed for medium-duty hydraulic service. The **PS2470-style** seal offers low-friction and good wear resistance. The addition of chamfered edges makes it easy to install in the cylinder bore and facilitate resizing during cylinder reassembly.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
PS2472-24	**1.500**	+.003 -.000	1.500	0.100	0.150	-215	1.067	+.000 -.004	0.168	+.000 -.002	14.42
PS2472-28	**1.750**		1.750	0.100	0.150	-219	1.317		0.168		16.78
PS2472-32	**2.000**		2.000	0.100	0.150	-222	1.576		0.168		18.43
PS2472-36	**2.250**		2.250	0.100	0.150	-224	1.826		0.168		19.14
PS2472-40	**2.500**		2.500	0.100	0.150	-227	2.076		0.168		19.52
PS2472-44	**2.750**		2.750	0.100	0.150	-228	2.317		0.168		26.81
PS2472-48	**3.000**	+.004 -.000	3.000	0.100	0.150	-230	2.567		0.168		21.60
PS2473-48	**3.000**		3.000	0.140	0.225	-332	2.390		0.249		32.52
PS2473-52	**3.250**		3.250	0.140	0.225	-334	2.640		0.249		34.48
PS2473-56	**3.500**		3.500	0.140	0.225	-336	2.890		0.249		35.52
PS2472-60	**3.750**		3.750	0.100	0.150	-236	3.317		0.168		37.46
PS2472-64	**4.000**		4.000	0.100	0.150	-238	3.567		0.168		39.22
PS2473-64	**4.000**		4.000	0.140	0.225	-340	3.390		0.249		39.18
PS2473-68	**4.250**		4.250	0.140	0.225	-342	3.640		0.249		37.25
PS2473-72	**4.500**		4.500	0.140	0.225	-344	3.890		0.249		45.66
PS2473-76	**4.750**		4.750	0.140	0.225	-346	4.140		0.249		45.96
PS2473-80	**5.000**		5.000	0.140	0.225	-348	4.390		0.249		46.64
PS2473-88	**5.500**		5.500	0.140	0.225	-352	4.890		0.249	+.000 -.005	53.05
PS2474-88	**5.500**		5.500	0.195	0.290	-426	4.670	+.000 -.010	0.322		61.34
PS2473-96	**6.000**		6.000	0.140	0.225	-355	5.390		0.249		56.36
PS2474-96	**6.000**		6.000	0.195	0.290	-430	5.170		0.322		70.21
PS2474-104	**6.500**		6.500	0.195	0.290	-434	5.670		0.322		72.01

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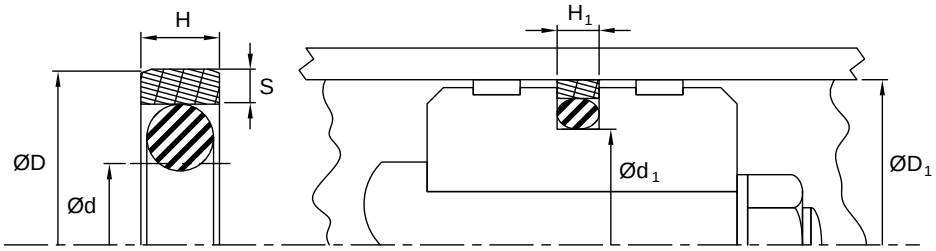
PS2470 series - BR.PTFE/NBR

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
PS2474-112*	**7.000**	+.005 -.000	7.000	0.195	0.290	-437	6.170	+.000 -.010	0.322	+.000 -.005	75.19
PS2474-120*	**7.500**		7.500	0.195	0.290	-439	6.670		0.322		81.62
PS2474-128	**8.000**		8.000	0.195	0.290	-441	7.170		0.322		85.44
PS2474-136	**8.500**		8.500	0.195	0.290	-443	7.670		0.322		90.12
PS2474-144	**9.000**		9.000	0.195	0.290	-445	8.170		0.322		94.09
PS2474-152*	**9.500**		9.500	0.195	0.290	-446	8.670		0.322		101.24
PS2474-160	**10.000**		10.000	0.195	0.290	-447	9.170		0.322		143.53

P2B - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5000 psi (≤345 bar)	< 12 ft/s (3.7 m/s)



P2B-style seals are two-part sealing units combining a low-friction, PTFE-based dynamic sealing element and an elastomeric loader ring insuring a fully energized device for both low and high pressure applications.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other size available on request.

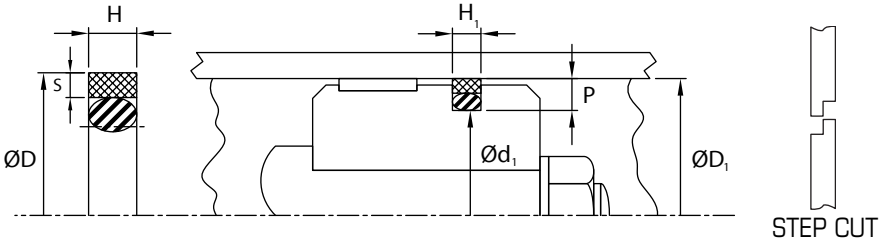
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
P2B-01500/281*	**1.500**	+.003 -.000	1.500	0.122	0.275	-318	0.715	+.000 -.003	0.281	+.003 -.000	36.70
P2B-02500/250	**2.500**		2.500	0.092	0.245	-325	1.951		0.255		42.50
P2B-02750/281	**2.750**		2.750	0.090	0.275	-331	2.210		0.281		64.33
P2B-03500/375	**3.500**		3.500	0.145	0.370	-411	2.715		0.380		46.85
P2B-04000/375	**4.000**		4.000	0.145	0.370	-414	3.238		0.379		52.09
P2B-04500/312	**4.500**		4.500	0.090	0.310	-345	3.951		0.320		53.33
P2B-04500/375*	**4.500**		4.500	0.142	0.370	-419	3.738		0.379		60.65
P2B-05000/375	**5.000**		5.000	0.142	0.365	-4177	4.239		0.370		50.84
P2B-06000/312	**6.000**		6.000	0.184	0.302	-429	5.195		0.313		74.29
P2B-06000/312-1	**6.000**		6.000	0.140	0.295	-431	5.248		0.313		74.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P2G - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nylon/Nitrile	-22°F to +230°F (-30°C to +110°C)	≤11 600 psi (≤800 bar)	<3.3 ft/s (1 m/s)



The **P2G-style** is a high pressure, two-part seal set, consisting of a stepped-cut Nylon sealing ring and an elastomeric loader ring for producing pre-load.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	h1	Tol.	$
P2G-02000/281	**2.000**	+.002 -.000	2.000				1.462	+.000 -.002	0.282	+.000 -.002	80.88
P2G-02250/281*	**2.250**		2.250				1.712		0.282		83.16
P2G-02500/281	**2.500**	+.003 -.000	2.500				1.962		0.282		85.29
P2G-02500/312	**2.500**		2.500				1.908		0.312		86.13
P2G-02750/281	**2.750**		2.750				2.212		0.282		86.72
P2G-03000/281	**3.000**		3.000				2.442	+.000 -.003	0.282		87.12
P2G-03000/312	**3.000**		3.000				2.408		0.312		87.71
P2G-03250/281	**3.250**		3.250				2.692		0.282		87.42
P2G-03500/281	**3.500**		3.500				2.942		0.282		87.56
P2G-03500/312	**3.500**		3.500				2.908		0.312		87.83
P2G-03750/281*	**3.750**		3.750				3.192		0.282		89.40
P2G-04000/281	**4.000**		4.000				3.442		0.282		90.39
P2G-04000/312	**4.000**		4.000				3.408		0.312		90.54
P2G-04025/281	**4.025**		4.025				3.467		0.282		90.60
P2G-04025/281-SP*	**4.025**		4.025				3.442		0.282		122.16
P2G-04250/281	**4.250**		4.250				3.692		0.282		90.68
P2G-04265/281*	**4.265**		4.265				3.707		0.282		93.32
P2G-04500/281	**4.500**		4.500				3.942		0.282		91.95
P2G-04500/312	**4.500**		4.500				3.908		0.312		94.08
P2G-04500/375*	**4.500**		4.500				3.740		0.377		93.99
P2G-04525/281	**4.525**		4.525				3.967		0.282		120.27
P2G-04750/281	**4.750**		4.750				4.192	+.000/-.004	0.282		95.36

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P2G series - NYLON/NBR (Step cut)

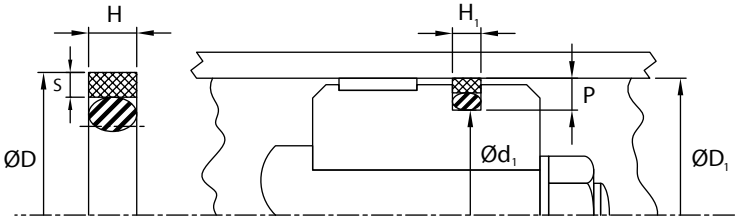
Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	h1	Tol.	
P2G-04750/375*	**4.750**	+.003/-.000	4.750				3.990	+.000 -.004	0.377	+.002 -.000	123.03
P2G-05000/281	**5.000**	+.004 -.000	5.000				4.442		0.282		143.18
P2G-05000/375	**5.000**		5.000				4.240		0.377		148.71
P2G-05025/281	**5.025**		5.025				4.467		0.282		152.30
P2G-05025/375	**5.025**		5.025				4.265		0.377		146.49
P2G-05025/375-SP	**5.025**		5.025				4.240		0.377		148.71
P2G-05250/375	**5.250**		5.250				4.490		0.377		150.42
P2G-05375/375	**5.375**		5.375				4.605		0.377		151.13
P2G-05500/375	**5.500**		5.500				4.740		0.377		151.68
P2G-05750/375	**5.750**		5.750				4.990		0.377		152.27
P2G-06000/375	**6.000**		6.000				5.240		0.377		152.82
P2G-06025/375	**6.025**		6.025				5.265		0.377		154.29
P2G-06500/375	**6.500**		6.500				5.740		0.377		154.67
P2G-07000/375	**7.000**		7.000				6.240		0.377		155.66
P2G-07025/375*	**7.025**		7.025				6.265		0.377		161.96
P2G-07500/375	**7.500**		7.500				6.740		0.377		163.74
P2G-08000/375	**8.000**		8.000				7.240		0.377		166.31
P2G-08500/375*	**8.500**		8.500				7.740		0.377		167.87
P2G-09000/375	**9.000**		9.000				8.124		0.377		264.85
P2G-09500/375*	**9.500**		9.500				8.624		0.377		288.02
P2G-10000/375	**10.000**		10.000				9.124		0.377		331.45
P2G-11000/375	**11.000**	+.006 -.000	11.000				10.124	+.000 -.005	0.377	+.005 -.000	441.57
P2G-11750/375	**11.750**		11.750				10.874		0.377		450.39
P2G-12000/375	**12.000**	+.004/-.000	12.000				11.124	+.000/-.004	0.377	+.002/-.000	215.64
P2G-12500/375	**12.500**	+.006/-.000	12.500				11.624	+.000/-.005	0.377	+.005/-.000	633.92
P2G-14000/375	**14.000**	+.004/-.000	14.000				13.124	+.000/-.004	0.377	+.002/-.000	548.69
P2G-16000/375	**16.000**	+.006/-.000	16.000				15.124	+.000/-.005	0.377	+.005/-.000	1723.49

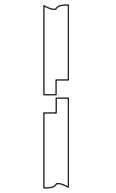
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CAT TYPE 3 - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nylon/Nitrile	-40°F to +250°F (-40°C to +121°C)	≤7000 psi (≤483 bar)	<3.3 ft/s (1 m/s)





Similar to the **P2G-style**, this is a two-piece piston seal for **Caterpillar®** specific equipment.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	h1	Tol.	
CAT-8C9167*	**2.500**	+.003 -.003					2.130	+.003 -.003	0.190	+.002 -.002	28.65
CAT-8C4911*	**2.530**						2.130		0.190		48.71
CAT-8C4914*	**2.560**						2.130		0.190		48.71
CAT-1665295*	**2.750**						2.380		0.190		47.66
CAT-8C4917*	**2.780**						2.380		0.190		81.01
CAT-8C4920*	**2.810**						2.380		0.190		81.01
CAT-9X7337	**3.000**						2.470		0.190		48.04
CAT-8T8209*	**3.030**						2.470		0.190		81.65
CAT-8T8212*	**3.060**						2.470		0.190		81.65
CAT-4T8054	**3.500**						2.960		0.190		37.99
CAT-8T8215*	**3.530**						2.960		0.190		64.60
CAT-8T8218*	**3.560**						2.960		0.190		64.60
CAT-9X7274	**3.750**						3.210		0.190		47.16
CAT-8T8221*	**3.780**						3.210		0.190		80.16
CAT-8T8224*	**3.810**						3.210		0.190		80.16
CAT-8C9160	**4.000**						3.340		0.250		49.03
CAT-4958179*	**4.000**						3.340		0.250		49.03
CAT-2273778*	**4.000**						3.408		0.312		90.54
CAT-8T8227*	**4.030**						3.340		0.250		83.33
CAT-8T8230*	**4.060**						3.340		0.250		83.33
CAT-8C9164	**4.250**						3.590		0.250		46.08
CAT-8T8233*	**4.280**						3.590		0.250		78.34

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

All manufacturer's names. part numbers and descriptions are use for reference purpose only.
We do not imply that any part shown is the product of these manufacturers.

CAT Type 3 - CAT- X-ref - NYLON/NBR (STEP CUT)

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	h1	Tol.	
CAT-8T8236*	**4.310**	+.003 -.003					3.590	+.003 -.003	0.250	+.002 -.002	78.34
CAT-9X7269	**4.500**						3.840		0.250		71.82
CAT-4958197*	**4.500**						3.840		0.250		71.82
CAT-4T5172	**4.500**						3.840		0.500		72.44
CAT-8T8239*	**4.530**						3.840		0.250		122.10
CAT-8T8242*	**4.560**						3.840		0.250		122.10
CAT-4T8588	**4.750**						4.090		0.250		84.17
CAT-8C5215*	**4.750**						4.090		0.630		77.95
CAT-8T8245*	**4.780**						4.090		0.250		143.09
CAT-8T4248*	**4.810**						4.090		0.250		143.09
CAT-9X7264	**5.000**						4.230		0.380		68.21
CAT-8T1787	**5.000**						4.230		0.630		94.83
CAT-8T0776	**5.000**						4.442		0.282		98.49
CAT-8T8251*	**5.030**						4.230		0.380		115.96
CAT-8T8254*	**5.060**						4.230		0.380		115.96
CAT-8T0763	**5.250**						4.460		0.380		89.94
CAT-8T8257*	**5.280**						4.460		0.380		152.90
CAT-8T8260*	**5.310**						4.460		0.380		152.90
CAT-6E0465	**5.500**						4.730		0.380		74.07
CAT-4958215	**5.500**						4.730		0.380		74.07
CAT-4T5173	**5.500**						4.730		0.630		58.66
CAT-8T8263*	**5.530**						4.730		0.380		125.91
CAT-9X4563*	**5.530**						4.730		0.630		99.73
CAT-8T8266*	**5.560**						4.730		0.380		125.91
CAT-8C9173	**6.000**						5.090		0.380		76.80
CAT-4T4144	**6.000**						5.090		0.630		63.70
CAT-8T8269*	**6.030**						5.090		0.380		130.56
CAT-8C4929*	**6.030**						5.090		0.630		108.29
CAT-8T8272*	**6.060**						5.090		0.380		130.56
CAT-8C4932*	**6.060**						5.090		0.630		108.29
CAT-8T1788	**6.250**						5.340		0.630		80.32
CAT-8C4935*	**6.280**						5.340		0.630		136.54
CAT-8C4938*	**6.310**						5.340		0.630		136.54
CAT-4T8695	**6.500**						5.590		0.630		56.92
CAT-8C4941*	**6.530**						5.590		0.630		152.51
CAT-8C4944*	**6.560**						5.590		0.630		152.51
CAT-8T1789	**7.000**						6.090		0.630		66.76
CAT-8T8287*	**7.030**						6.090		0.630		166.82
CAT-8T8290*	**7.060**						6.090		0.630		166.82
CAT-8T1790	**7.250**						6.340		0.630		99.04
CAT-8C5112*	**7.280**						6.340		0.630		222.84
CAT-8C5115*	**7.310**						6.340		0.630		222.84
CAT-8T1791	**7.500**						6.590		0.630		128.05

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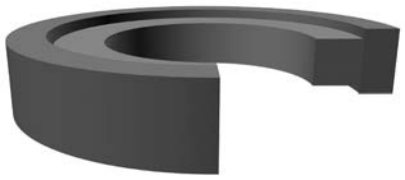


CAT Type 3 - CAT- X-ref - NYLON/NBR (STEP CUT)

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	h1	Tol.	
CAT-8C5118*	**7.530**	+.003 -.003					6.590	+.003 -.003	0.630	+.002 -.002	288.10
CAT-8C5121*	**7.560**						6.590		0.630		288.10
CAT-8T1792	**7.750**						6.840		0.630		70.59
CAT-8C5124*	**7.780**						6.840		0.630		158.82
CAT-8C5127*	**7.810**						6.840		0.630		158.82
CAT-8T1793	**8.250**						7.260		0.630		90.04
CAT-8C5130*	**8.280**						7.260		0.630		202.58
CAT-8C5133*	**8.310**						7.260		0.630		202.58
CAT-9T0119	**8.500**						7.510		0.630		85.19
CAT-8C5136*	**8.530**						7.510		0.630		212.96
CAT-8C5139*	**8.560**						7.510		0.630		212.96
CAT-4T4143	**9.250**						8.260		0.380		151.04
CAT-1921435	**9.250**						8.260		0.380		151.04
CAT-8T8305	**9.280**						8.260		0.380		339.84
CAT-8T8384*	**9.310**						8.260		0.380		339.84
CAT-9X7321	**9.500**						8.510		0.380		154.60
CAT-8T1794	**10.000**						8.880		0.690		134.30
CAT-8C5142*	**10.030**						8.880		0.690		302.18
CAT-8C5145*	**10.060**						8.880		0.690		302.18
CAT-8T1795*	**10.250**						9.130		0.690		155.84
CAT-8C5148*	**10.280**						9.130		0.690		350.64
CAT-8C5151*	**10.310**						9.130		0.690		350.64
CAT-8T1796	**10.500**						9.380		0.690		146.12
CAT-1921455*	**10.500**						9.380		0.690		146.12
CAT-8C5154*	**10.530**						9.380		0.690		328.77
CAT-8C5157*	**10.560**						9.380		0.690		328.77
CAT-1080125	**11.000**						9.880		0.690		111.41
CAT-1740344	**11.000**						9.880		0.690		111.41
CAT-8T1797	**11.500**						10.380		0.690		172.07
CAT-8C5160*	**11.530**						10.380		0.690		387.14
CAT-8C5163*	**11.560**						10.380		0.690		387.14
CAT-9X7326*	**12.000**						10.880		0.690		387.56
CAT-1990962*	**12.000**						10.880		0.690		387.56
CAT-6E0307*	**12.500**						11.380		0.690		232.44
CAT-1921453	**12.500**						11.380		0.690		232.44
CAT-1086211*	**13.000**						11.880		0.690		239.55
CAT-1921443*	**13.000**						11.880		0.690		239.55
CAT-1214185*	**13.500**						12.400		0.690		254.40
CAT-1921445	**13.500**						12.400		0.690		254.40

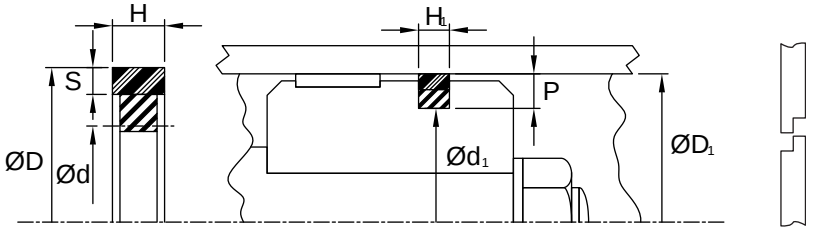
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Standard Material	Temperature Range	Pressure Range	Surface Speed
Nylon/Nitrile	-40°F to +250°F (-40°C to +121°C)	≤7000 psi (≤483 bar)	<3.3 ft/s (1 m/s)

RETROFITS ALL C914 PISTON SEALS



STEP CUT

This is a bi-directional piston seal designed for heavy-duty hydraulic application. Its hard thermoplastic outer ring allows for high diametrical clearances and extrusion resistance as well as the ability to pass over open ports. It has the capability to work effectively in substandard surface finishes and is an excellent choice for mobile equipment experiencing shock loads.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	S	H	d1	Tol.	H1	Tol.	
ZG02000-281	**2.000**	+.003 -.000	2.000		0.105	0.281	1.460	+.000 -.005	0.282	+.005 -.000	25.62
ZG02000-312	**2.000**		2.000		0.125	0.312	1.406		0.312		44.36
ZG02250-281	**2.250**		2.250		0.105	0.281	1.712		0.282		31.46
ZG02500-281	**2.500**		2.500		0.105	0.281	1.960		0.282		30.76
ZG02500-312*	**2.500**		2.500		0.125	0.312	1.906		0.312		30.73
ZG03000-281	**3.000**	+.004 -.000	3.000		0.125	0.281	2.440		0.282		32.38
ZG03000-312	**3.000**		3.000		0.125	0.312	2.406		0.312		32.39
ZG03500-281	**3.500**		3.500		0.125	0.281	2.940		0.282		32.16
ZG03500-312	**3.500**		3.500		0.125	0.312	2.906		0.312		35.48
ZG04000-281	**4.000**		4.000		0.125	0.281	3.440		0.282		34.51
ZG04000-312	**4.000**		4.000		0.125	0.312	3.406		0.312		37.57
ZG04250-281	**4.250**		4.250		0.125	0.281	3.692		0.282		40.90
ZG04500-281	**4.500**		4.500		0.125	0.281	3.940		0.282		36.62
ZG04500-312	**4.500**		4.500		0.125	0.312	3.906		0.312		46.88
ZG05000-281	**5.000**		5.000		0.125	0.281	4.440		0.282		49.73
ZG05000-375	**5.000**		5.000		0.125	0.375	4.238		0.377		49.73
ZG05500-375	**5.500**		5.500		0.125	0.375	4.738		0.377		54.02
ZG06000-375	**6.000**		6.000		0.125	0.375	5.238		0.377		46.03
ZG06500-375	**6.500**		6.500		0.125	0.375	5.738		0.377		86.90
ZG07000-375*	**7.000**	+.005 -.000	7.000		0.125	0.375	6.238		0.377		113.75
ZG07500-375*	**7.500**		7.500		0.125	0.375	6.738		0.377		134.40
ZG08000-375	**8.000**		8.000		0.125	0.375	7.238		0.377		136.11
ZG08500-375N*	**8.500**		8.500		0.125	0.375	7.738		0.377		139.32

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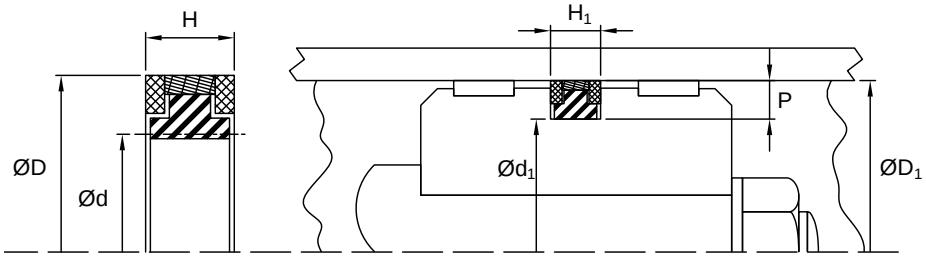
ZG series - NYLON/NBR

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	S	H	Housing Dimensions d1	Tol.	H1	Tol.	$
ZG08500-375*	**8.500**	+.005 -.000	8.500		0.187	0.375	7.622	+.000 -.005	0.377	+.005 -.000	142.72
ZG09000-375*	**9.000**		9.000		0.187	0.375	8.122		0.377		147.46
ZG09500-375*	**9.500**		9.500		0.187	0.375	8.622		0.377		154.22
ZG10000-375*	**10.000**		10.000		0.187	0.375	9.122		0.377		165.09
ZG10500-375*	**10.500**		10.500		0.187	0.375	9.622		0.377		179.56
ZG11000-375*	**11.000**	+.006 -.000	11.000		0.187	0.375	10.122		0.377		196.33
ZG12000-375	**12.000**		12.000		0.187	0.375	11.122		0.377		214.44
ZG12500-375*	**12.500**		12.500		0.187	0.375	11.622		0.377		368.52
ZG14000-375	**14.000**		14.000		0.187	0.375	13.122		0.377		372.60

CTS - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
GF/M.PTFE/ Nylon/Nitrile	-20°F to +220°F (-29°C to +104°C)	≤6500 psi (≤450 bar)	< 5 ft/s (1.5 m/s)



The **CTS-style** is a four-piece assembly made up of a rubber energizer. a PTFE cap and two anti-extrusion rings. A low-friction, low wear seal with high extrusion resistance, this seal is an excellent choice for sealing mobile hydraulic applications that experience shock loads.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
CTS-01000*	**1.000**	+.003 -.000					0.625	+.000 -.002	0.424	+.010 -.000	O/R
CTS-01250*	**1.250**						0.875		0.424		O/R
CTS-01500	**1.500**						1.125		0.424		72.06
CTS-01750	**1.750**						1.375		0.424		71.91
CTS-02000	**2.000**						1.625		0.424		77.25
CTS-02001	**2.000**						1.442		0.295		113.30
CTS-02250	**2.250**						1.875		0.424		79.23
CTS-02500	**2.500**						2.125		0.424		80.63
CTS-02501	**2.500**						1.942		0.295		86.90

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CTS series - GF/M & BR.PTFE/NYLON/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
CTS-02750	**2.750**	+.003/-.000					2.375	+.000/-.002	0.424	+.010 -.000	94.10
CTS-03000	**3.000**	+.004 -.000					2.520	+.000 -.003	0.579		104.06
CTS-03000/B	**3.000**						2.520		0.579		173.70
CTS-03001	**3.000**						2.442		0.424		63.02
CTS-03002*	**3.000**						2.384		0.265		94.86
CTS-03250	**3.250**						2.770		0.579		107.46
CTS-03251	**3.250**						2.692		0.424		167.15
CTS-03252*	**3.250**						2.875		0.424		90.89
CTS-03500	**3.500**						3.020		0.579		108.14
CTS-03500/B	**3.500**						3.020		0.579		108.23
CTS-03501	**3.500**						2.942		0.424		117.53
CTS-03750	**3.750**						3.270		0.579		109.53
CTS-04000	**4.000**						3.520		0.579		112.73
CTS-04000/0203	**4.000**						3.520		0.579		130.83
CTS-04000/B	**4.000**						3.520		0.579		123.32
CTS-04001	**4.000**						3.442		0.424		98.48
CTS-04250	**4.250**						3.770		0.579		117.80
CTS-04500	**4.500**						4.020		0.579		120.38
CTS-04501	**4.500**						3.942		0.424		141.71
CTS-04750	**4.750**						4.270		0.579		161.70
CTS-04750/SP*	**4.750**						4.130		0.545		274.16
CTS-04751	**4.750**						4.192		0.424		166.67
CTS-05000	**5.000**						4.270		0.750		151.35
CTS-05000/B	**5.000**						4.270		0.750		162.98
CTS-05001	**5.000**						4.444		0.420		184.67
CTS-05250	**5.250**						4.520		0.750		158.84
CTS-05500	**5.500**						4.770		0.750		168.86
CTS-05500/B	**5.500**						4.770		0.750		201.60
CTS-05501	**5.500**						5.022		0.579		157.95
CTS-05501/B	**5.500**						5.022		0.579		163.97
CTS-05502	**5.500**						4.660		0.375		133.97
CTS-05750	**5.750**						5.022		0.750		161.96
CTS-06000	**6.000**						5.270		0.750		173.60
CTS-06000/B	**6.000**						5.270		0.750		178.14
CTS-06001	**6.000**						5.522		0.579		209.55
CTS-06250	**6.250**						5.520		0.750		177.03
CTS-06500	**6.500**						5.770		0.750		175.83
CTS-06501 *	**6.500**	+.005 -.000					6.022		0.579		209.60
CTS-06501/B*	**6.500**						6.022		0.579		200.21
CTS-06750*	**6.750**						6.022		0.750		202.25
CTS-07000	**7.000**						6.270		0.750		225.68
CTS-07250/B	**7.250**						6.520		0.750		258.74
CTS-07250	**7.250**						6.520		0.750		228.98
CTS-07500	**7.500**						6.770		0.750		202.52
CTS-07500/B	**7.500**						6.770		0.750		243.99
CTS-07500/B-735	**7.500**						6.770		0.750		283.01

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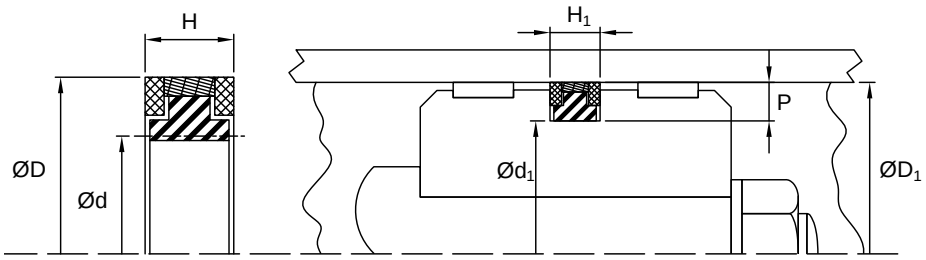
CTS series - GF/M & BR.PTFE/NYLON/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
CTS-07500/B-V*	**7.500**	+.005 -.000					6.770	+.000 -.004	0.750	+.003 -.000	885.92
CTS-07510/B*	**7.510**						6.770		0.750		416.96
CTS-07520/B*	**7.520**						6.770		0.750		416.96
CTS-07530/B*	**7.530**						6.770		0.750		416.96
CTS-07750	**7.750**						7.022		0.750		221.81
CTS-08000	**8.000**						7.270		0.750		256.67
CTS-08000/B	**8.000**						7.270		0.750		267.39
CTS-08250	**8.250**						7.520		0.750		254.61
CTS-08500	**8.500**						7.770		0.750		257.06
CTS-08750	**8.750**						8.022		0.750		267.39
CTS-09000	**9.000**						8.270		0.750		280.46
CTS-09000/B	**9.000**						8.270		0.750		300.96
CTS-09500/B	**9.500**						8.770		0.750		356.66
CTS-10000	**10.000**						9.270		0.750		326.80
CTS-10000/B	**10.000**						9.270		0.750		351.60
CTS-10020/B*	**10.020**						9.270		0.750		604.22
CTS-11000	**11.000**	+.006 -.000					10.270		0.750		401.12
CTS-11000/B	**11.000**						10.270		0.750		348.60
CTS-11500/B*	**11.500**						10.770		0.750		502.53
CTS-12000	**12.000**						11.270		0.750		436.73
CTS-12000/B	**12.000**						11.270		0.750		414.26
CTS-12500/B	**12.500**						11.770		0.750		514.73
CTS-12500/B-735	**12.500**						11.770		0.750		572.97
CTS-12500/B-V*	**12.500**						11.770		0.750		1373.99
CTS-12510/B*	**12.510**						11.770		0.750		875.04
CTS-12520/B*	**12.520**						11.770		0.750		875.04
CTS-12530/B*	**12.530**						11.770		0.750		875.04
CTS-13000	**13.000**						12.270		0.750		617.07
CTS-13000/B	**13.000**						12.270		0.750		489.60
CTS-13500/B	**13.500**						12.770		0.750		739.74
CTS-13510/B*	**13.510**						12.770		0.750		1109.63
CTS-13520/B*	**13.520**						12.770		0.750		1109.63
CTS-14000	**14.000**						13.270		0.750		770.28
CTS-14500/B	**14.500**						13.770		0.750		920.27
CTS-14500/B-735*	**14.500**						13.770		0.750		1462.80
CTS-14510/B*	**14.510**						13.770		0.750		957.02
CTS-14520/B*	**14.520**						13.770		0.750		957.02
CTS-14530/B*	**14.530**						13.770		0.750		957.02
CTS-15000	**15.000**						14.270		0.750		601.20
CTS-15000/B	**15.000**						14.270		0.750		579.20
CTS-15000/B-V*	**15.000**						14.270		0.750		1401.26
CTS-15010/B*	**15.010**						14.270		0.750		967.26
CTS-15020/B*	**15.020**						14.270		0.750		967.26
CTS-15030/B*	**15.030**						14.270		0.750		967.26
CTS-16000/B	**16.000**						15.270		0.750		444.21
CTS-16010/B	**16.010**						15.270		0.750		755.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
GF/M.PTFE/ Nylon/Nitrile	-30°F to +230°F (-22°C to +110°C)	≤6500 psi (≤448 bar)	<5 ft/s (1.5 m/s)



Similar to the **CTS-style**, this is a four-piece piston seal for **Caterpillar®** specific equipment.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions d1	Tol.	H1	Tol.	$
CAT-8J3747	**4.500**	+.004 -.000				3.840	+.003 -.003	0.500	+.002 -.002	137.16
CAT-9J7868	**5.000**					4.230		0.630		167.61
CAT-8J8767	**5.500**					4.730		0.630		188.06
CAT-8J8767/030*	**5.530**					4.730		0.630		282.09
CAT-9J1242	**6.000**					5.090		0.630		196.50
CAT-9J5558	**6.250**					5.340		0.630		200.69
CAT-9J5558/010*	**6.260**					5.340		0.630		301.04
CAT-8J8703	**6.500**	+.005 -.000				5.590		0.630		221.43
CAT-8J8703/030*	**6.530**					5.590		0.630		332.15
CAT-8J3749	**7.000**					6.090		0.630		228.33
CAT-8J3749/B	**7.000**					6.090		0.630		287.70
CAT-8J3749/030*	**7.030**					6.090		0.630		342.50
CAT-8J4510	**7.250**					6.340		0.630		235.74
CAT-8J4510/030*	**7.280**					6.340		0.630		353.61
CAT-9J5567	**7.500**					6.590		0.630		239.06
CAT-9J5567/030*	**7.530**					6.590		0.630		358.59
CAT-8J5644	**7.750**					6.840		0.630		265.06
CAT-8J5644/030	**7.780**					6.840		0.630		397.59
CAT-8J4390	**8.250**					7.260		0.630		265.69
CAT-3G4762	**8.500**					7.510		0.630		328.90
CAT-3G4762/030*	**8.530**					7.510		0.630		493.35

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All manufacturer's names. part numbers and descriptions are use for reference purpose only.
We do not imply that any part shown is the product of these manufacturers.

CAT TYPE 4 - CAT X-ref - GF/M.PTFE/NYLON/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions				$
		Tol.	D	d	H	d1	Tol.	H1	Tol.	
CAT-1665452*	**10.000**	+.005 -.000				8.880	+.003 -.003	0.690	+.002 -.002	330.62
CAT-9J3406	**10.000**					8.880		0.690		330.62
CAT-3G0889*	**10.250**					9.130		0.690		348.17
CAT-3G4765	**10.500**					9.380		0.690		357.09
CAT-3G4765/030	**10.530**					9.380		0.690		535.63
CAT-1080125/4PCS	**11.000**					9.880		0.690		425.43
CAT-1080125/030*	**11.030**					9.880		0.690		608.35
CAT-1293706/030*	**11.030**					9.880		0.690		608.35
CAT-9J2987	**11.500**					10.380		0.690		406.45
CAT-9J2987/030*	**11.530**					10.380		0.690		512.13
CAT-1921453/4PCS*	**12.500**					11.380		0.690		449.54
CAT-1921443/4PCS*	**13.000**					11.880		0.690		482.63

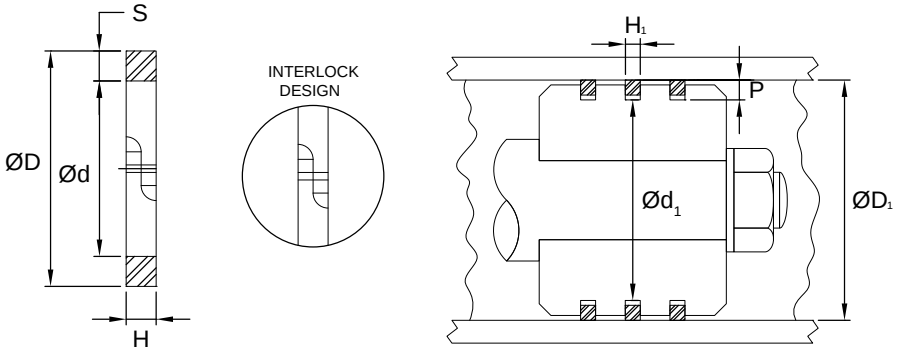
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Standard Material
Cast or ductile iron



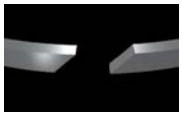
These metallic piston rings are low wear, highly extrusion resistant seals used in hydraulic applications. They are bi-directional in use, and can pass open ports without clipping the joint tips.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Nominal Bore Diameter	Depth P + 003/ -003	Nominal Bore Diameter	Depth P + 003/ -003	Nominal Bore Diameter	Depth P + 003/ -003	Nominal Bore Diameter	Depth P + 003/ -003
1.000	0.065	**3.000**	0.160	**6.000**	0.256	**10.500**	0.405
1.125	0.070	**3.125**	0.165	**6.250**	0.258	**11.000**	0.420
1.250	0.075	**3.250**	0.168	**6.500**	0.276	**11.500**	0.436
1.375	0.085	**3.375**	0.171	**6.750**	0.284	**12.000**	0.446
1.500	0.107	**3.500**	0.176	**7.000**	0.293	**12.500**	0.457
1.625	0.116	**3.625**	0.179	**7.250**	0.302	**13.000**	0.470
1.750	0.120	**3.750**	0.185	**7.500**	0.309	**13.500**	0.480
1.875	0.125	**3.875**	0.195	**7.750**	0.307	**14.000**	0.500
2.000	0.125	**4.000**	0.194	**8.000**	0.325	**14.500**	0.520
2.125	0.130	**4.250**	0.203	**8.250**	0.333	**15.000**	0.537
2.250	0.135	**4.500**	0.213	**8.500**	0.340	**15.500**	0.545
2.375	0.141	**4.750**	0.221	**8.750**	0.349	**16.000**	0.560
2.500	0.147	**5.000**	0.230	**9.000**	0.359	**16.500**	0.580
2.625	0.152	**5.250**	0.234	**9.250**	0.365	**17.000**	0.592
2.750	0.156	**5.500**	0.240	**9.500**	0.370	**17.500**	0.610
2.875	0.158	**5.750**	0.249	**10.000**	0.382	**18.000**	0.625

Nominal Piston Ring width	Width H1 + 003/ -003
1/8	0.125
3/16	0.188
1/4	0.250
5/16	0.313
3/8	0.375
1/2	0.500
5/8	0.625
3/4	0.750
7/8	0.875
1	1.000


END LAP

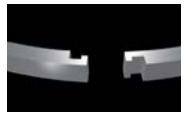

ANGLE CUT


VENTED OIL SEAL


ANGLE STEP CUT


BUTT CUT


STEP CUT


HOOK RING

Radial Clearance : The radial clearance between the cylinder bore and piston should be less than 1/3 of the radial wall thickness of the piston ring to ensure sealing effectiveness.

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P1000 series - CAST IRON

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1000	**1.000**	+.003 -.000	0.045 - 0.055	0.123 - 0.124	14.48
P1000-01125*	**1.125**		0.045 - 0.055	0.123 - 0.124	12.29
P1000-02178*	**2.178**		0.045 - 0.055	0.123 - 0.124	O/R
P1000-02190*	**2.190**		0.065 - 0.080	0.123 - 0.124	O/R
P1000-02562*	**2.562**		0.065 - 0.080	0.123 - 0.124	O/R
P1000-03497*	**3.497**		0.103 - 0.131	0.185 - 0.187	11.34
P1000-03750	**3.750**		0.176 - 0.186	0.185 - 0.187	99.88
P1000-03937*	**3.937**		0.127 - 0.142	0.155 - 0.157	15.57
P1000-04125*	**4.125**		0.127 - 0.142	0.123 - 0.124	20.97
P1000-04875*	**4.875**		0.145 - 0.160	0.123 - 0.124	O/R
P1000-04921*	**4.921**		0.191 - 0.206	0.155 - 0.157	O/R
P1000-05125*	**5.125**		0.175 - 0.190	0.181 - 0.182	O/R
P1000-05335	**5.335**		0.202 - 0.217	0.155 - 0.157	46.76
P1000-05780*	**5.780**		0.184 - 0.199	0.248 - 0.249	O/R
P1000-05875*	**5.875**		0.145 - 0.160	0.311 - 0.312	O/R
P1000-06280	**6.280**		0.228 - 0.243	0.155 - 0.157	53.28
P1000-07260SC	**7.260**		0.253 - 0.268	0.248 - 0.249	34.11
P1000-07280*	**7.280**		0.237 - 0.252	0.311 - 0.312	O/R
P1000-07375*	**7.375**		0.191 - 0.206	0.372 - 0.373	49.65
P1000-07401	**7.401**		0.237 - 0.252	0.193 - 0.195	64.06
P1000-08000*	**8.000**		0.210 - 0.225	0.311 - 0.312	44.55
P1000-08250*	**8.250**		0.210 - 0.225	0.372 - 0.373	69.29
P1000-08420SC*	**8.420**		0.291 - 0.306	0.248 - 0.249	40.39
P1000-08530*	**8.530**		0.275 - 0.290	0.372 - 0.373	O/R
P1000-08661	**8.661**		0.317 - 0.332	0.193 - 0.195	86.41
P1000-08750*	**8.750**		0.191 - 0.206	0.372 - 0.373	70.92
P1000-09030*	**9.030**		0.298 - 0.308	0.372 - 0.373	264.91
P1000-09170	**9.170**		0.298 - 0.308	0.310 - 0.311	67.90
P1000-09675*	**9.675**		0.305 - 0.320	0.371 - 0.373	O/R
P1000-09750*	**9.750**		0.300 - 0.315	0.371 - 0.373	102.16
P1000-09750-08*	**9.750**		0.135 - 0.150	0.247 - 0.249	149.57
P1000-09750-16*	**9.750**		0.135 - 0.150	0.497 - 0.498	O/R
P1000-09885*	**9.885**		0.325 - 0.340	0.248 - 0.249	128.36
P1000-10500*	**10.500**		0.227 - 0.243	0.371 - 0.373	111.89
P1000-11380*	**11.380**		0.358 - 0.373	0.376 - 0.377	138.52
P1000-11875*	**11.875**		0.317 - 0.332	0.161 - 0.162	O/R
P1000-14765*	**14.765**		0.487 - 0.517	0.501 - 0.502	208.76
P1000-16750*	**16.750**		0.507 - 0.522	0.621 - 0.623	550.57
P1001	**1.500**		0.052 - 0.067	0.123 - 0.124	14.35
P1001-03	**1.500**		0.052 - 0.067	0.093 - 0.094	36.07
P1001-06	**1.500**		0.052 - 0.067	0.186 - 0.187	26.53
P1002	**1.625**		0.056 - 0.071	0.123 - 0.124	36.41
P1002-03	**1.625**		0.056 - 0.071	0.093 - 0.094	16.32
P1002-06	**1.625**		0.056 - 0.071	0.186 - 0.187	16.32
P1003	**1.750**		0.060 - 0.075	0.123 - 0.124	15.74
P1003-03	**1.750**		0.060 - 0.075	0.093 - 0.094	15.74

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1003-06SC/BF	**1.750**	+.003 -.000	0.060 - 0.075	0.186 - 0.187	22.74
P1004	**1.875**		0.060 - 0.075	0.123 - 0.124	24.43
P1004-03*	**1.875**		0.060 - 0.075	0.093 - 0.094	20.92
P1004-06*	**1.875**		0.060 - 0.075	0.186 - 0.187	16.32
P1005	**2.000**		0.060 - 0.075	0.123 - 0.124	16.85
P1005-03	**2.000**		0.060 - 0.075	0.093 - 0.094	21.13
P1005-05	**2.000**		0.060 - 0.075	0.155 - 0.156	11.52
P1005-06	**2.000**		0.060 - 0.075	0.186 - 0.187	16.31
P1005-08*	**2.000**		0.060 - 0.075	0.248 - 0.249	26.08
P1006*	**2.125**		0.065 - 0.080	0.186 - 0.187	19.26
P1006-03*	**2.125**		0.065 - 0.080	0.093 - 0.094	17.03
P1006-04	**2.125**		0.065 - 0.080	0.123 - 0.124	19.80
P1006-08*	**2.125**		0.065 - 0.080	0.248 - 0.249	17.37
P1007	**2.250**		0.070 - 0.085	0.186 - 0.187	19.80
P1007-03	**2.250**		0.070 - 0.085	0.093 - 0.094	70.37
P1007-04	**2.250**		0.070 - 0.085	0.123 - 0.124	19.20
P1007-08	**2.250**		0.070 - 0.085	0.248 - 0.249	21.30
P1008*	**2.375**		0.076 - 0.091	0.186 - 0.187	21.30
P1008-03*	**2.375**		0.076 - 0.091	0.093 - 0.094	17.37
P1008-04	**2.375**		0.076 - 0.091	0.123 - 0.124	17.37
P1008-08*	**2.375**		0.076 - 0.091	0.248 - 0.249	17.37
P1009	**2.500**		0.082 - 0.097	0.186 - 0.187	15.82
P1009-03	**2.500**		0.082 - 0.097	0.093 - 0.094	17.37
P1009-04	**2.500**		0.082 - 0.097	0.123 - 0.124	15.82
P1009-05*	**2.500**		0.082 - 0.097	0.155 - 0.156	O/R
P1009-08	**2.500**		0.082 - 0.097	0.248 - 0.249	16.44
P1010*	**2.625**		0.087 - 0.102	0.186 - 0.187	19.50
P1010-03	**2.625**		0.087 - 0.102	0.093 - 0.094	19.50
P1010-04	**2.625**		0.087 - 0.102	0.123 - 0.124	19.50
P1010-08*	**2.625**		0.087 - 0.102	0.248 - 0.249	O/R
P1011	**2.750**		0.091 - 0.106	0.186 - 0.187	19.62
P1011-03	**2.750**		0.091 - 0.106	0.093 - 0.094	19.62
P1011-04	**2.750**		0.091 - 0.106	0.123 - 0.124	19.62
P1011-05*	**2.750**		0.091 - 0.106	0.155 - 0.156	11.75
P1011-08	**2.750**		0.091 - 0.106	0.248 - 0.249	19.62
P1012*	**2.875**		0.093 - 0.108	0.186 - 0.187	16.66
P1012-04*	**2.875**		0.093 - 0.108	0.123 - 0.124	17.78
P1012-08*	**2.875**		0.093 - 0.108	0.248 - 0.249	17.78
P1013	**3.000**	+.004 -.000	0.095 - 0.110	0.186 - 0.187	16.46
P1013-04	**3.000**		0.095 - 0.110	0.123 - 0.124	17.78
P1013-08	**3.000**		0.095 - 0.110	0.248 - 0.249	17.08
P1013-10	**3.000**		0.095 - 0.110	0.310 - 0.311	17.18
P1014	**3.125**		0.100 - 0.115	0.186 - 0.187	20.22
P1014-04	**3.125**		0.100 - 0.115	0.123 - 0.124	20.22
P1014-08*	**3.125**		0.100 - 0.115	0.248 - 0.249	20.22
P1014-10*	**3.125**		0.100 - 0.115	0.310 - 0.311	20.22

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1015	**3.250**	+.004 -.000	0.103 - 0.118	0.186 - 0.187	16.46
P1015-04	**3.250**		0.103 - 0.118	0.123 - 0.124	16.46
P1015-05	**3.250**		0.103 - 0.118	0.155 - 0.156	13.02
P1015-05PH	**3.250**		0.145 - 0.160	0.155 - 0.156	13.56
P1015-08*	**3.250**		0.103 - 0.118	0.248 - 0.249	16.66
P1015-10*	**3.250**		0.103 - 0.118	0.310 - 0.311	19.26
P1016	**3.375**		0.106 - 0.121	0.186 - 0.187	28.53
P1016-04*	**3.375**		0.106 - 0.121	0.123 - 0.124	27.09
P1016-08*	**3.375**		0.106 - 0.121	0.248 - 0.249	27.09
P1016-10*	**3.375**		0.106 - 0.121	0.310 - 0.311	27.09
P1017	**3.500**		0.109 -0.124	0.186 - 0.187	19.96
P1017-04	**3.500**		0.109 -0.124	0.123 - 0.124	17.31
P1017-05*	**3.500**		0.103 - 0.118	0.155 - 0.156	O/R
P1017-08	**3.500**		0.109 -0.124	0.248 - 0.249	17.31
P1017-08SH*	**3.500**		0.103 - 0.118	0.248 - 0.249	12.51
P1017-10	**3.500**		0.109 -0.124	0.310 - 0.311	45.33
P1017-10SH*	**3.500**		0.123 - 0.138	0.310 - 0.311	O/R
P1017-16SH*	**3.500**		0.145 - 0.160	0.497 - 0.498	39.90
P1018	**3.625**		0.112 - 0.127	0.186 - 0.187	19.26
P1018-04*	**3.625**		0.112 - 0.127	0.123 - 0.124	19.26
P1018-08*	**3.625**		0.112 - 0.127	0.248 - 0.249	19.26
P1018-10*	**3.625**		0.112 - 0.127	0.310 - 0.311	19.86
P1019	**3.750**		0.115 - 0.130	0.248 - 0.249	17.80
P1019-04*	**3.750**		0.115 - 0.130	0.123 - 0.124	19.86
P1019-06	**3.750**		0.115 - 0.130	0.186 - 0.187	17.80
P1019-10*	**3.750**		0.115 - 0.130	0.310 - 0.311	19.86
P1020*	**3.875**		0.123 - 0.138	0.248 - 0.249	17.98
P1020-04*	**3.875**		0.123 - 0.138	0.123 - 0.124	70.07
P1020-06*	**3.875**		0.123 - 0.138	0.186 - 0.187	41.29
P1020-10*	**3.875**		0.123 - 0.138	0.310 - 0.311	19.86
P1021	**4.000**		0.127 - 0.142	0.248 - 0.249	17.98
P1021-04	**4.000**		0.127 - 0.142	0.123 - 0.124	33.84
P1021-06	**4.000**		0.127 - 0.142	0.186 - 0.187	17.33
P1021-06PH	**4.000**		0.160 - 0.175	0.186 - 0.187	15.00
P1021-10	**4.000**		0.127 - 0.142	0.310 - 0.311	17.98
P1021-12*	**4.000**		0.127 - 0.142	0.372 - 0.373	76.54
P1022	**4.250**		0.135 - 0.150	0.248 - 0.249	19.86
P1022-04*	**4.250**		0.135 - 0.150	0.123 - 0.124	19.86
P1022-05*	**4.250**		0.135 - 0.150	0.155 - 0.156	O/R
P1022-06	**4.250**		0.135 - 0.150	0.186 - 0.187	19.86
P1022-08SC	**4.250**		0.160 - 0.175	0.248 - 0.249	14.78
P1022-10	**4.250**		0.135 - 0.150	0.310 - 0.311	30.21
P1022-10SW*	**4.250**		0.145 - 0.160	0.310 - 0.311	19.99
P1023*	**4.500**		0.145 - 0.160	0.248 - 0.249	19.62
P1023-04	**4.500**		0.145 - 0.160	0.123 - 0.124	21.87
P1023-05*	**4.500**		0.145 - 0.160	0.155 - 0.156	O/R

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1023-06	**4.500**	+.004 -.000	0.145 - 0.160	0.186 - 0.187	19.01
P1023-08SH	**4.500**		0.145 - 0.160	0.248 - 0.249	19.94
P1023-10*	**4.500**		0.145 - 0.160	0.310 - 0.311	19.38
P1023-10SW	**4.500**		0.145 - 0.160	0.310 - 0.311	40.04
P1023-12*	**4.500**		0.145 - 0.160	0.372 - 0.373	32.41
P1023-16*	**4.500**		0.145 - 0.160	0.497 - 0.498	66.00
P1023-16SH	**4.500**		0.145 - 0.160	0.497 - 0.498	47.52
P1024	**4.750**		0.152 - 0.167	0.248 - 0.249	19.43
P1024-04*	**4.750**		0.152 - 0.167	0.123 - 0.124	45.68
P1024-06	**4.750**		0.152 - 0.167	0.186 - 0.187	45.32
P1024-10*	**4.750**		0.152 - 0.167	0.310 - 0.311	22.88
P1024-12*	**4.750**		0.152 - 0.167	0.372 - 0.373	25.08
P1024-16*	**4.750**		0.152 - 0.167	0.497 - 0.498	35.73
P1025	**5.000**		0.160 - 0.175	0.248 - 0.249	20.01
P1025-04*	**5.000**		0.160 - 0.175	0.123 - 0.124	26.11
P1025-06	**5.000**		0.160 - 0.175	0.186 - 0.187	20.01
P1025-06PH	**5.000**		0.184 - 0.199	0.186 - 0.187	15.67
P1025-10	**5.000**		0.160 - 0.175	0.310 - 0.311	30.86
P1025-12	**5.000**		0.160 - 0.175	0.372 - 0.373	34.15
P1025-16	**5.000**		0.160 - 0.175	0.497 - 0.498	54.36
P1025-16SP*	**5.000**		0.184 - 0.199	0.497 - 0.498	67.22
P1026	**5.250**		0.166 - 0.181	0.248 - 0.249	31.10
P1026-04*	**5.250**		0.166 - 0.181	0.123 - 0.124	O/R
P1026-06	**5.250**		0.166 - 0.181	0.186 - 0.187	47.22
P1026-08SC	**5.250**		0.191 - 0.206	0.248 - 0.249	16.77
P1026-10	**5.250**		0.166 - 0.181	0.310 - 0.311	31.10
P1026-12*	**5.250**		0.166 - 0.181	0.372 - 0.373	31.10
P1026-16*	**5.250**		0.166 - 0.181	0.497 - 0.498	38.18
P1027	**5.500**		0.175 - 0.190	0.248 - 0.249	27.04
P1027-04*	**5.500**		0.175 - 0.190	0.123 - 0.124	27.69
P1027-06	**5.500**		0.175 - 0.190	0.186 - 0.187	27.04
P1027-08SH	**5.500**		0.145 - 0.160	0.248 - 0.249	17.20
P1027-10*	**5.500**		0.175 - 0.190	0.310 - 0.311	32.30
P1027-10SW	**5.500**		0.175 - 0.190	0.310 - 0.311	32.30
P1027-12	**5.500**		0.175 - 0.190	0.372 - 0.373	35.84
P1027-16*	**5.500**		0.175 - 0.190	0.497 - 0.498	38.18
P1027-16SH	**5.500**		0.145 - 0.160	0.497 - 0.498	53.84
P1028	**5.750**		0.184 - 0.199	0.248 - 0.249	36.39
P1028-04*	**5.750**		0.184 - 0.199	0.123 - 0.124	35.09
P1028-06*	**5.750**		0.184 - 0.199	0.186 - 0.187	34.31
P1028-10	**5.750**		0.184 - 0.199	0.310 - 0.311	39.29
P1028-12*	**5.750**		0.184 - 0.199	0.372 - 0.373	39.29
P1028-16*	**5.750**		0.184 - 0.199	0.497 - 0.498	39.29
P1029	**6.000**		0.191 - 0.206	0.310 - 0.311	27.32
P1029-04*	**6.000**		0.191 - 0.206	0.123 - 0.124	36.73
P1029-06	**6.000**		0.191 - 0.206	0.185 - 0.187	34.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P1000 series - CAST IRON

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1029-08	**6.000**	+.004 -.000	0.191 - 0.206	0.248 - 0.249	27.32
P1029-08PH	**6.000**		0.211 - 0.226	0.248 - 0.249	21.38
P1029-12	**6.000**		0.191 - 0.206	0.372 - 0.373	32.12
P1029-16	**6.000**		0.191 - 0.206	0.497 - 0.498	43.72
P1030*	**6.250**		0.202 - 0.217	0.310 - 0.311	48.20
P1030-04*	**6.250**		0.202 - 0.217	0.123 - 0.124	43.72
P1030-06*	**6.250**		0.202 - 0.217	0.185 - 0.187	42.83
P1030-08	**6.250**		0.202 - 0.217	0.248 - 0.249	48.20
P1030-08SC	**6.250**		0.202 - 0.217	0.248 - 0.249	29.57
P1030-12	**6.250**		0.202 - 0.217	0.372 - 0.373	43.72
P1030-16*	**6.250**		0.202 - 0.217	0.497 - 0.498	43.72
P1031	**6.500**		0.211 - 0.226	0.310 - 0.311	31.27
P1031-04*	**6.500**		0.211 - 0.226	0.123 - 0.124	60.93
P1031-06*	**6.500**		0.211 - 0.226	0.185 - 0.187	63.12
P1031-08	**6.500**		0.211 - 0.226	0.248 - 0.249	31.27
P1031-08SH	**6.500**		0.145 - 0.160	0.248 - 0.249	20.66
P1031-10SW*	**6.500**		0.211 - 0.226	0.310 - 0.311	O/R
P1031-12	**6.500**		0.211 - 0.226	0.372 - 0.373	60.93
P1031-16*	**6.500**		0.211 - 0.226	0.497 - 0.498	98.16
P1031-16SH	**6.500**		0.145 - 0.160	0.497 - 0.498	83.59
P1032	**6.750**	+.005 -.000	0.219 - 0.234	0.310 - 0.311	46.88
P1032-04*	**6.750**		0.219 - 0.234	0.123 - 0.124	46.88
P1032-06*	**6.750**		0.219 - 0.234	0.185 - 0.187	46.88
P1032-08*	**6.750**		0.219 - 0.234	0.248 - 0.249	48.95
P1032-12	**6.750**		0.219 - 0.234	0.372 - 0.373	48.95
P1032-16*	**6.750**		0.219 - 0.234	0.497 - 0.498	48.95
P1033	**7.000**		0.228 - 0.243	0.310 - 0.311	49.25
P1033-04*	**7.000**		0.228 - 0.243	0.123 - 0.124	49.25
P1033-06	**7.000**		0.228 - 0.243	0.185 - 0.187	49.25
P1033-08	**7.000**		0.228 - 0.243	0.248 - 0.249	41.62
P1033-08PH*	**7.000**		0.228 - 0.243	0.248 - 0.249	36.23
P1033-12	**7.000**		0.228 - 0.243	0.372 - 0.373	49.25
P1033-16	**7.000**		0.228 - 0.243	0.497 - 0.498	77.70
P1033-16SP	**7.000**		0.184 - 0.199	0.497 - 0.498	89.37
P1034*	**7.250**		0.237 - 0.252	0.310 - 0.311	54.75
P1034-04*	**7.250**		0.237 - 0.252	0.123 - 0.124	54.75
P1034-06*	**7.250**		0.237 - 0.252	0.185 - 0.187	54.75
P1034-08	**7.250**		0.237 - 0.252	0.248 - 0.249	54.75
P1034-08SC*	**7.250**		0.237 - 0.252	0.248 - 0.249	O/R
P1034-12*	**7.250**		0.237 - 0.252	0.372 - 0.373	54.75
P1034-16*	**7.250**		0.237 - 0.252	0.497 - 0.498	54.75
P1035	**7.500**		0.244 - 0.259	0.310 - 0.311	54.11
P1035-04*	**7.500**		0.244 - 0.259	0.123 - 0.124	54.11
P1035-06*	**7.500**		0.244 - 0.259	0.185 - 0.187	54.11
P1035-08*	**7.500**		0.244 - 0.259	0.248 - 0.249	46.25
P1035-08SH	**7.500**		0.145 - 0.160	0.248 - 0.249	32.31

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1035-10SW	**7.500**	+.005 -.000	0.211 - 0.226	0.310 - 0.311	27.72
P1035-12*	**7.500**		0.244 - 0.259	0.372 - 0.373	62.30
P1035-16*	**7.500**		0.244 - 0.259	0.497 - 0.498	52.22
P1035-16SH	**7.500**		0.145 - 0.160	0.497 - 0.498	47.40
P1035-32*	**7.500**		0.260 - 0.275	0.995 - 0.996	O/R
P1036	**7.750**		0.252 - 0.267	0.310 - 0.311	66.75
P1036-04*	**7.750**		0.252 - 0.267	0.123 - 0.124	64.45
P1036-06*	**7.750**		0.252 - 0.267	0.185 - 0.187	64.45
P1036-08*	**7.750**		0.252 - 0.267	0.248 - 0.249	64.45
P1036-12*	**7.750**		0.252 - 0.267	0.372 - 0.373	64.45
P1036-16*	**7.750**		0.252 - 0.267	0.497 - 0.498	64.45
P1037	**8.000**		0.260 - 0.275	0.372 - 0.373	74.77
P1037-04*	**8.000**		0.260 - 0.275	0.123 - 0.124	54.75
P1037-06*	**8.000**		0.260 - 0.275	0.185 - 0.187	54.75
P1037-08	**8.000**		0.260 - 0.275	0.248 - 0.249	54.75
P1037-10	**8.000**		0.260 - 0.275	0.310 - 0.311	54.75
P1037-16	**8.000**		0.260 - 0.275	0.497 - 0.498	69.97
P1037-28*	**8.000**		0.260 - 0.275	0.875 - 0.876	O/R
P1038	**8.250**		0.268 - 0.283	0.372 - 0.373	75.53
P1038-06*	**8.250**		0.268 - 0.283	0.185 - 0.187	75.53
P1038-08	**8.250**		0.268 - 0.283	0.248 - 0.249	75.53
P1038-10	**8.250**		0.268 - 0.283	0.310 - 0.311	75.53
P1038-14*	**8.250**		0.400 - 0.430	0.248 - 0.249	86.26
P1038-16	**8.250**		0.268 - 0.283	0.497 - 0.498	86.26
P1039	**8.500**		0.275 - 0.290	0.372 - 0.373	89.81
P1039-06*	**8.500**		0.275 - 0.290	0.185 - 0.187	89.81
P1039-08	**8.500**		0.275 - 0.290	0.248 - 0.249	89.81
P1039-08SH*	**8.500**		0.145 - 0.160	0.248 - 0.249	27.72
P1039-10*	**8.500**		0.275 - 0.290	0.310 - 0.311	74.45
P1039-10SW*	**8.500**		0.211 - 0.226	0.310 - 0.311	33.50
P1039-16	**8.500**		0.275 - 0.290	0.497 - 0.498	140.43
P1039-16SH*	**8.500**		0.145 - 0.160	0.497 - 0.498	43.66
P1040*	**8.750**		0.284 - 0.299	0.372 - 0.373	87.41
P1040-06*	**8.750**		0.284 - 0.299	0.185 - 0.187	87.41
P1040-08*	**8.750**		0.284 - 0.299	0.248 - 0.249	87.41
P1040-10	**8.750**		0.284 - 0.299	0.310 - 0.311	87.41
P1040-16*	**8.750**		0.284 - 0.299	0.497 - 0.498	87.41
P1041	**9.000**		0.294 - 0.309	0.372 - 0.373	88.59
P1041-06*	**9.000**		0.294 - 0.309	0.185 - 0.187	88.59
P1041-08*	**9.000**		0.294 - 0.309	0.248 - 0.249	88.59
P1041-10*	**9.000**		0.294 - 0.309	0.310 - 0.311	94.68
P1041-14	**9.000**		0.297 - 0.312	0.435 - 0.436	116.29
P1041-16*	**9.000**		0.294 - 0.309	0.497 - 0.498	116.29
P1041-16SP	**9.000**		0.184 - 0.199	0.497 - 0.498	101.86
P1042	**9.250**		0.300 - 0.315	0.372 - 0.373	102.49
P1042-06*	**9.250**		0.300 - 0.315	0.185 - 0.187	102.49

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1042-08*	**9.250**	+.005 -.000	0.300 - 0.315	0.248 - 0.249	102.49
P1042-10*	**9.250**		0.300 - 0.315	0.310 - 0.311	102.49
P1042-16*	**9.250**		0.300 - 0.315	0.497 - 0.498	102.49
P1043*	**9.500**		0.305 - 0.320	0.372 - 0.373	171.67
P1043-06*	**9.500**		0.305 - 0.320	0.185 - 0.187	106.81
P1043-08*	**9.500**		0.305 - 0.320	0.248 - 0.249	106.81
P1043-08SH*	**9.500**		0.145 - 0.160	0.248 - 0.249	O/R
P1043-10*	**9.500**		0.305 - 0.320	0.309 - 0.311	230.29
P1043-10SW*	**9.500**		0.305 - 0.320	0.309 - 0.311	209.36
P1043-16*	**9.500**		0.305 - 0.320	0.497 - 0.498	114.55
P1043-16SH*	**9.500**		0.145 - 0.160	0.497 - 0.498	60.33
P1043-32*	**9.500**		0.305 - 0.320	0.995 - 0.996	O/R
P1044	**10.000**		0.317 - 0.332	0.371 - 0.373	164.10
P1044-08	**10.000**		0.317 - 0.332	0.247 - 0.249	122.96
P1044-10	**10.000**		0.317 - 0.332	0.309 - 0.311	112.34
P1044-16	**10.000**		0.317 - 0.332	0.496 -0 .498	122.96
P1045	**10.500**		0.326 - 0.341	0.371 - 0.373	164.41
P1045-08*	**10.500**		0.326 - 0.341	0.247 - 0.249	164.41
P1045-10*	**10.500**		0.326 - 0.341	0.309 - 0.311	164.41
P1045-16*	**10.500**		0.326 - 0.341	0.496 -0 .498	405.77
P1046	**11.000**	+.006 -.000	0.343 - 0.358	0.371 - 0.373	285.40
P1046-08*	**11.000**		0.343 - 0.358	0.247 - 0.249	285.40
P1046-10*	**11.000**		0.343 - 0.358	0.309 - 0.311	285.40
P1046-16*	**11.000**		0.343 - 0.358	0.496 -0 .498	285.40
P1046-16SP	**11.000**		0.184 - 0.199	0.496 -0 .498	234.67
P1047	**11.500**		0.358 - 0.373	0.371 - 0.373	285.40
P1047-08*	**11.500**		0.358 - 0.373	0.247 - 0.249	285.40
P1047-10*	**11.500**		0.358 - 0.373	0.309 - 0.311	285.40
P1047-16*	**11.500**		0.358 - 0.373	0.496 - 0.498	285.40
P1048	**12.000**		0.386 - 0.401	0.371 - 0.373	241.73
P1048-08*	**12.000**		0.386 - 0.401	0.247 - 0.249	285.40
P1048-10*	**12.000**		0.386 - 0.401	0.309 - 0.311	285.40
P1048-16	**12.000**		0.386 - 0.401	0.496 - 0.498	285.40
P1048PH*	**12.000**		0.365 - 0.385	0.371 - 0.373	O/R
P1049*	**12.500**		0.400 - 0.430	0.496 - 0.498	450.65

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1049-12*	**12.500**	+.006 -.000	0.400 - 0.430	0.371 - 0.373	O/R
P1049-20*	**12.500**		0.400 - 0.430	0.621 - 0.623	O/R
P1050	**13.000**		0.400 - 0.430	0.496 - 0.498	331.06
P1050-12*	**13.000**		0.400 - 0.430	0.371 - 0.373	331.06
P1050-16SP	**13.000**		0.275 - 0.290	0.496 -0 .498	403.05
P1050-20*	**13.000**		0.400 - 0.430	0.621 - 0.623	331.06
P1051*	**13.500**		0.400 - 0.430	0.496 - 0.498	403.19
P1051-12*	**13.500**		0.400 - 0.430	0.371 - 0.373	O/R
P1051-20*	**13.500**		0.400 - 0.430	0.621 - 0.623	255.10
P1052	**14.000**		0.430 - 0.460	0.496 - 0.498	343.79
P1052-12*	**14.000**		0.400 - 0.430	0.371 - 0.373	490.25
P1052-20*	**14.000**		0.430 - 0.460	0.621 - 0.623	O/R
P1053*	**14.500**		0.435 - 0.465	0.496 - 0.498	O/R
P1053-12*	**14.500**		0.435 - 0.465	0.371 - 0.373	636.81
P1053-20*	**14.500**		0.435 - 0.465	0.621 - 0.623	O/R
P1054*	**15.000**		0.463 - 0.493	0.496 - 0.498	521.74
P1054-12*	**15.000**		0.463 - 0.493	0.371 - 0.373	468.52
P1054-20*	**15.000**		0.463 - 0.493	0.621 - 0.623	631.46
P1055*	**15.500**		0.463 - 0.493	0.496 - 0.498	O/R
P1055-12*	**15.500**		0.463 - 0.493	0.371 - 0.373	O/R
P1055-20*	**15.500**		0.463 - 0.493	0.621 - 0.623	O/R
P1056*	**16.000**		0.487 - 0.517	0.496 - 0.498	559.95
P1056-12*	**16.000**		0.487 - 0.517	0.371 - 0.373	O/R
P1056-20	**16.000**		0.487 - 0.517	0.621 - 0.623	1050.68
P1057*	**16.500**		0.505 - 0.540	0.621 - 0.623	609.01
P1057-16*	**16.500**		0.435 - 0.465	0.496 - 0.498	1154.07
P1059*	**17.500**		0.605 - 0.640	0.541 - 0.542	O/R
P1060*	**18.000**		0.520 - 0.570	0.621 - 0.623	O/R
P1062-16*	**19.000**		0.563 - 0.603	0.496 - 0.498	O/R
P1064-16*	**20.000**		0.605 - 0.640	0.496 - 0.498	O/R
P1065-20*	**20.500**		0.605 - 0.640	0.621 - 0.623	O/R
P1068-20*	**22.000**		0.613 - 0.663	0.621 - 0.623	O/R
P1070*	**23.000**		0.645 - 0.685	0.746 - 0.747	O/R
P1072*	**24.000**		0.660 - 0.700	0.746 - 0.747	O/R
P1074*	**25.000**		0.680 - 0.720	0.746 - 0.747	O/R

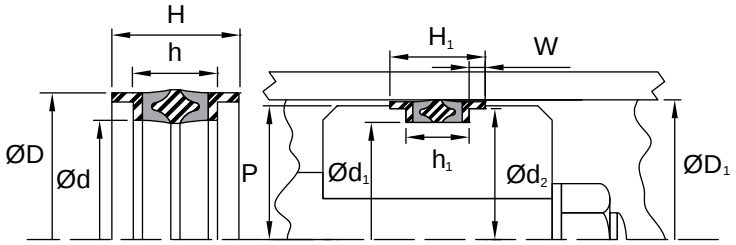
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P3C - Piston seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric/ Polyamide	-22°F to +212°F (-30°C to +100°C)	≤10 000 psi (≤689 bar)	<1.6 ft/s (0.5 m/s)



The **P3C-style** is a double-acting piston seal used in combination with "L"-shaped bearing rings to give a very robust heavy duty seal assembly requiring split pistons. Its dual material construction allows low-pressure sealing ability with the elastomeric center as well as high extrusion resistance with the fabric-reinforced ends. The "L"-shaped bearing rings protect from metal-to-metal contact and insure proper centering of the piston within the cylinder bore.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions						$
		Tol.	D	d	h	H	d1	Tol.	d2 + 005/- 005	P + 000/- 005	h1 + 015/- 005	W + 000/- 005	
P3C-01000*	**1.000**	+.005 -.000	1.000	0.625	0.593	0.957	0.625	+.002 -.002	0.865	0.968	0.593	0.187	22.98
P3C-01000/58*	**1.000**		1.000	0.625	0.593	0.967	0.625		0.868	0.968	0.593	0.187	22.98
P3C-01125*	**1.125**		1.000	0.625	0.750	1.125	0.625		0.990	1.093	0.750	0.187	22.98
P3C-01250*	**1.250**	+.006 -.000	1.250	0.750	0.750	1.250	0.750	+.003 -.003	1.115	1.218	0.750	0.250	27.46
P3C-01250/58*	**1.250**		1.250	0.750	0.750	1.250	0.750		1.118	1.218	0.750	0.250	27.46
P3C-01375*	**1.375**		1.375	0.875	0.750	1.250	0.875		1.241	1.343	0.750	0.250	31.13
P3C-01500*	**1.500**		1.500	1.000	0.625	1.000	1.000		1.362	1.460	0.625	0.187	64.78
P3C-01500/58*	**1.500**		1.500	1.000	0.625	1.000	1.000		1.362	1.460	0.625	0.187	86.30
P3C-01500-1*	**1.500**		1.500	1.000	0.625	1.125	1.000		1.362	1.460	0.625	0.250	65.02
P3C-01500-1/58*	**1.500**		1.500	1.000	0.625	1.125	1.000		1.362	1.460	0.625	0.250	65.02
P3C-01500-2 *	**1.500**		1.500	1.000	0.750	1.250	1.000		1.365	1.468	0.750	0.250	65.02
P3C-01500-2/58*	**1.500**		1.500	1.000	0.750	1.250	1.000		1.371	1.468	0.750	0.250	87.76
P3C-01625*	**1.625**		1.625	1.000	0.937	1.437	1.000		1.428	1.562	0.937	0.250	71.76
P3C-01625/58*	**1.625**		1.625	1.000	0.937	1.437	1.000		1.428	1.562	0.937	0.250	71.76
P3C-01750*	**1.750**		1.750	1.125	0.750	1.250	1.125		1.572	1.710	0.750	0.250	35.22
P3C-01750/58*	**1.750**		1.750	1.125	0.750	1.250	1.125		1.572	1.710	0.750	0.250	90.49
P3C-01750-1	**1.750**		1.750	1.125	0.937	1.428	1.125		1.552	1.687	0.937	0.250	50.99
P3C-01750-1/58	**1.750**		1.750	1.125	0.937	1.437	1.125		1.555	1.687	0.937	0.250	93.26
P3C-01875 *	**1.875**		1.875	1.250	0.937	1.437	1.250		1.678	1.812	0.937	0.250	93.26
P3C-01875/58*	**1.875**		1.875	1.250	0.937	1.437	1.250		1.678	1.812	0.937	0.250	95.98
P3C-02000	**2.000**	+.007 -.000	2.000	1.375	0.750	1.250	1.375		1.822	1.962	0.750	0.250	28.66
P3C-02000/58*	**2.000**		2.000	1.375	0.750	1.250	1.375		1.822	1.962	0.750	0.250	96.54
P3C-02000-1	**2.000**		2.000	1.375	0.937	1.437	1.375		1.802	1.937	0.937	0.250	53.22
P3C-02000-1/58	**2.000**		2.000	1.375	0.937	1.437	1.375		1.805	1.937	0.937	0.250	98.20

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions						$
			D	d	h	H	d1	Tol.	d2 + 005/- 005	P + 000/- 005	h1 + 015/- 005	W + 000/- 005	
P3C-02125/58*	**2.125**	+.007 -.000	2.125	1.500	0.937	1.437	1.500	+.003 -.003	1.928	2.062	0.937	0.250	98.20
P3C-02250	**2.250**		2.250	1.625	0.750	1.250	1.625		2.071	2.211	0.750	0.250	100.17
P3C-02250/58*	**2.250**		2.250	1.625	0.750	1.250	1.625		2.071	2.211	0.750	0.250	101.46
P3C-02250-1	**2.250**		2.250	1.625	0.937	1.437	1.625		2.052	2.187	0.937	0.250	59.10
P3C-02250-1/58*	**2.250**		2.250	1.625	0.937	1.437	1.625		2.055	2.187	0.937	0.250	103.12
P3C-02375/58*	**2.375**		2.375	1.750	0.750	1.250	1.750		2.180	2.312	0.750	0.250	103.66
P3C-02375-1	**2.375**		2.375	1.750	0.937	1.437	1.750		2.177	2.312	0.937	0.250	37.84
P3C-02375-1/58*	**2.375**		2.375	1.750	0.937	1.437	1.750		2.180	2.312	0.937	0.250	37.84
P3C-02500	**2.500**		2.500	1.875	0.750	1.250	1.875		2.321	2.460	0.750	0.250	80.54
P3C-02500/58*	**2.500**		2.500	1.875	0.750	1.250	1.875		2.321	2.460	0.750	0.250	105.26
P3C-02500-1	**2.500**		2.500	1.875	0.937	1.437	1.875		2.302	2.437	0.937	0.250	66.21
P3C-02500-1/58*	**2.500**		2.500	1.875	0.937	1.437	1.875		2.305	2.437	0.937	0.250	108.04
P3C-02625*	**2.625**		2.625	2.000	0.937	1.437	2.000	+.004 -.004	2.428	2.562	0.937	0.250	35.99
P3C-02625/58*	**2.625**		2.625	2.000	0.937	1.437	2.000		2.428	2.562	0.937	0.250	110.75
P3C-02750/58*	**2.750**		2.750	2.000	0.937	1.437	2.000		2.524	2.710	0.937	0.254	111.84
P3C-02750-1*	**2.750**		2.750	2.000	1.187	1.687	2.000		2.482	2.687	1.187	0.250	76.98
P3C-02750-1/58*	**2.750**		2.750	2.000	1.187	1.687	2.000		2.485	2.687	1.187	0.250	114.07
P3C-02875/58*	**2.875**		2.875	2.125	1.187	1.687	2.125		2.610	2.812	1.187	0.250	116.82
P3C-03000*	**3.000**		3.000	2.250	0.937	1.437	2.250		2.774	2.960	0.937	0.250	49.61
P3C-03000/58	**3.000**		3.000	2.250	0.937	1.437	2.250		2.774	2.960	0.937	0.250	116.82
P3C-03000-1	**3.000**		3.000	2.250	1.187	1.687	2.250		2.732	2.937	1.187	0.250	49.61
P3C-03000-1/58*	**3.000**		3.000	2.250	1.187	1.687	2.250		2.735	2.937	1.187	0.250	118.98
P3C-03000-2*	**3.000**		3.000	2.250	0.843	1.343	2.250		2.732	2.937	0.843	0.250	118.98
P3C-03125/58*	**3.125**		3.125	2.375	1.187	1.687	2.375		2.858	3.062	1.187	0.250	118.98
P3C-03250/58*	**3.250**	+.009 -.000	3.250	2.500	0.937	1.437	2.500		3.024	3.210	0.937	0.250	121.74
P3C-03250-1*	**3.250**		3.250	2.500	1.187	1.687	2.500		2.982	3.187	1.187	0.250	84.43
P3C-03250-1/58*	**3.250**		3.250	2.500	1.187	1.687	2.500		2.985	3.187	1.187	0.250	123.88
P3C-03375*	**3.375**		3.375	2.625	1.187	1.562	2.625		3.119	3.315	1.187	0.187	79.18
P3C-03500	**3.500**		3.500	2.750	0.937	1.437	2.750		3.273	3.460	0.937	0.250	151.61
P3C-03500/58*	**3.500**		3.500	2.750	0.937	1.437	2.750		3.273	3.460	0.937	0.250	126.68
P3C-03500-1	**3.500**		3.500	2.750	1.187	1.687	2.750		3.232	3.437	1.187	0.250	89.79
P3C-03500-1/58	**3.500**		3.500	2.750	1.187	1.687	2.750		3.235	3.437	1.187	0.250	128.79
P3C-03625/58*	**3.625**		3.625	2.875	1.187	1.687	2.875		3.360	3.562	1.187	0.250	93.75
P3C-03750*	**3.750**		3.750	3.000	1.187	1.687	3.000		3.482	3.687	1.187	0.245	93.75
P3C-03750/58*	**3.750**		3.750	3.000	1.187	1.687	3.000		3.485	3.687	1.187	0.250	133.72
P3C-03875/58*	**3.875**		3.875	3.125	1.187	1.687	3.125		3.610	3.812	1.187	0.250	135.94
P3C-04000/58	**4.000**		4.000	3.250	0.937	1.437	3.250		3.772	3.958	0.937	0.250	138.71
P3C-04000-1	**4.000**		4.000	3.250	1.187	1.687	3.250		3.732	3.937	1.187	0.250	104.85
P3C-04000-1/58*	**4.000**		4.000	3.250	1.187	1.687	3.250		3.735	3.937	1.187	0.250	138.74
P3C-04250/58	**4.250**		4.250	3.500	0.937	1.437	3.500		4.022	4.210	0.937	0.250	140.88
P3C-04250-1*	**4.250**		4.250	3.500	1.187	1.687	3.500		3.982	4.187	1.187	0.250	73.86
P3C-04250-1/58*	**4.250**		4.250	3.500	1.187	1.687	3.500		3.985	4.187	1.187	0.250	143.72
P3C-04500/58	**4.500**		4.500	3.500	1.250	1.750	3.500		4.231	4.450	1.250	0.250	118.22
P3C-04500-1*	**4.500**		4.500	3.500	1.500	2.250	3.500		4.232	4.437	1.500	0.375	125.58
P3C-04500-1/58*	**4.500**		4.500	3.500	1.500	2.250	3.500		4.234	4.437	1.500	0.375	163.96
P3C-04750/58*	**4.750**		4.750	3.750	1.250	1.750	3.750		4.483	4.700	1.250	0.250	174.33

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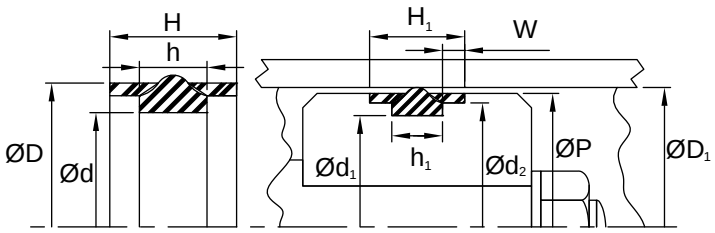
P3C series - NEOFAB/POM

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions	Tol.					$
			D	d	h	H	d1		d2 + 005/- 005	P + 000/- 005	h1 + 015/- 005	W + 000/- 005	
P3C-04750-1*	**4.750**	+.010 -.000	4.750	3.750	1.500	2.250	3.750	+.004 -.004	4.482	4.687	1.500	0.375	128.44
P3C-04750-1/58*	**4.750**		4.750	3.750	1.500	2.250	3.750		4.485	4.687	1.500	0.375	185.40
P3C-05000/58	**5.000**		5.000	4.000	1.250	1.750	4.000		4.730	4.956	1.250	0.250	195.77
P3C-05000-1	**5.000**		5.000	4.000	1.500	2.250	4.000		4.732	4.937	1.500	0.375	144.13
P3C-05000-1/58*	**5.000**		5.000	4.000	1.500	2.250	4.000		4.735	4.937	1.500	0.375	206.72
P3C-05250*	**5.250**		5.250	4.250	1.500	2.250	4.250		4.982	5.187	1.500	0.375	80.52
P3C-05250/58*	**5.250**		5.250	4.250	1.500	2.250	4.250		4.980	5.187	1.500	0.375	80.52
P3C-05500-1*	**5.500**		5.500	4.500	1.250	1.750	4.500		5.235	5.456	1.250	0.250	179.45
P3C-05500-1/58*	**5.500**		5.500	4.500	1.250	1.750	4.500		5.235	5.456	1.250	0.250	239.05
P3C-05500-2*	**5.500**		5.500	4.500	1.500	2.250	4.500		5.232	5.437	1.500	0.375	153.67
P3C-05500-2/58*	**5.500**		5.500	4.500	1.500	2.250	4.500		5.235	5.437	1.500	0.375	249.46
P3C-05750/58*	**5.750**		5.750	4.750	1.500	2.250	4.750	+.005 -.005	5.484	5.687	1.500	0.375	270.83
P3C-06000*	**6.000**		6.000	5.000	1.250	1.750	5.000		5.728	5.954	1.250	0.250	438.37
P3C-06000/58	**6.000**		6.000	5.000	1.250	1.750	5.000		5.728	5.954	1.250	0.250	281.87
P3C-06000-1*	**6.000**		6.000	5.000	1.500	2.250	5.000		5.732	5.937	1.500	0.375	163.63
P3C-06000-1/58*	**6.000**		6.000	5.000	1.500	2.250	5.000		5.736	5.937	1.500	0.375	292.59
P3C-06250/58*	**6.250**		6.250	5.250	1.500	2.250	5.250		5.984	6.187	1.500	0.375	309.61
P3C-06500/58*	**6.500**		6.500	5.500	1.250	1.750	5.500		6.227	6.454	1.250	0.250	228.91
P3C-06500-1*	**6.500**		6.500	5.500	1.500	2.250	5.500		6.232	6.437	1.500	0.375	243.82
P3C-06500-1/58*	**6.500**		6.500	5.500	1.500	2.250	5.500		6.236	6.437	1.500	0.375	335.56
P3C-06750/58*	**6.750**		6.750	5.750	1.500	2.250	5.750		6.484	6.687	1.500	0.375	364.55
P3C-07000*	**7.000**		7.000	6.000	1.500	2.250	6.000		6.732	6.937	1.500	0.375	258.60
P3C-07000/58*	**7.000**		7.000	6.000	1.500	2.250	6.000		6.736	6.937	1.500	0.375	378.41
P3C-07250/58*	**7.250**		7.250	6.000	1.875	2.625	6.000		6.990	7.187	1.875	0.375	295.62
P3C-07500/58*	**7.500**		7.500	6.250	1.875	2.625	6.250		7.240	7.437	1.875	0.375	426.55
P3C-08000/58*	**8.000**		8.000	7.000	1.250	2.000	7.000		7.740	7.937	1.250	0.375	453.50
P3C-09000/58*	**9.000**		9.000	8.000	1.250	2.000	8.000	+.006 -.006	8.736	8.937	1.250	0.375	527.21
P3C-09000-1/58*	**9.000**		9.000	7.750	1.875	2.625	7.750		8.740	8.937	1.875	0.375	555.48
P3C-10000/58*	**10.000**		10.000	9.000	1.250	2.000	9.000		9.740	9.937	1.250	0.375	625.11

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/ Polyamide	-22°F to +212°F (-30°C to +100°C)	≤2300 psi (≤159 bar)	<1.6 ft/s (0.5 m/s)



Specifically used for light-duty. one-piece piston applications. the **P3D-style** piston seal is an assembly of a continuous rubber ring with two scarf-cut acetal bearing rings. These bearing rings are designed to support the piston assembly and avoid excessive side-loading.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1 + 000/- 003	d2 + 005/- 005	P + 000/- 005	h1 + 015/- 005	W + 000/- 005	
P3D-01000*	**1.000**	+.003 -.000	1.000	0.687	0.343	0.593	0.687	0.839	0.944	0.348	0.125	9.71
P3D-01000/65*	**1.000**		1.000	0.687	0.343	0.593	0.687	0.829	0.937	0.348	0.125	18.52
P3D-01250*	**1.250**		1.250	0.937	0.343	0.643	0.937	1.079	1.187	0.348	0.125	9.22
P3D-01250/65*	**1.250**		1.250	0.937	0.343	0.643	0.937	1.079	1.187	0.348	0.125	18.52
P3D-01500*	**1.500**		1.500	1.125	0.437	0.737	1.125	1.324	1.437	0.442	0.150	9.22
P3D-01500/65*	**1.500**		1.500	1.125	0.437	0.737	1.125	1.324	1.437	0.442	0.150	22.58
P3D-01750*	**1.750**		1.750	1.375	0.437	0.737	1.375	1.574	1.687	0.442	0.150	16.37
P3D-01750/65*	**1.750**		1.750	1.375	0.437	0.737	1.375	1.574	1.687	0.442	0.150	26.98
P3D-02000*	**2.000**		2.000	1.625	0.437	0.737	1.625	1.824	1.937	0.442	0.150	37.87
P3D-02000/65	**2.000**		2.000	1.625	0.437	0.737	1.625	1.824	1.937	0.442	0.150	32.73
P3D-02250*	**2.250**		2.250	1.875	0.437	0.737	1.875	2.075	2.187	0.442	0.150	13.47
P3D-02250/65*	**2.250**		2.250	1.875	0.437	0.737	1.875	2.075	2.187	0.442	0.150	36.25
P3D-02500*	**2.500**		2.500	2.125	0.437	0.737	2.125	2.325	2.437	0.442	0.150	12.63
P3D-02500/65*	**2.500**		2.500	2.125	0.437	0.737	2.125	2.325	2.437	0.442	0.150	38.97
P3D-02750*	**2.750**		2.750	2.375	0.437	0.737	2.375	2.575	2.687	0.442	0.150	24.89
P3D-02750/65*	**2.750**		2.750	2.375	0.437	0.737	2.375	2.575	2.687	0.442	0.150	42.23
P3D-02875/65*	**2.875**		2.875	2.500	0.437	0.737	2.500	2.700	2.812	0.442	0.150	47.45
P3D-03000*	**3.000**	+.004 -.000	3.000	2.625	0.437	0.737	2.625	2.825	2.937	0.442	0.150	15.41
P3D-03000/65*	**3.000**		3.000	2.625	0.437	0.737	2.625	2.825	2.937	0.442	0.150	49.21
P3D-03250*	**3.250**		3.250	2.875	0.437	0.737	2.875	3.075	3.187	0.442	0.150	16.45
P3D-03250/65	**3.250**		3.250	2.875	0.437	0.737	2.875	3.075	3.187	0.442	0.150	49.69
P3D-03500*	**3.500**		3.500	3.000	0.562	0.982	3.000	3.270	3.437	0.567	0.210	17.61

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P3D series - NBR/POM

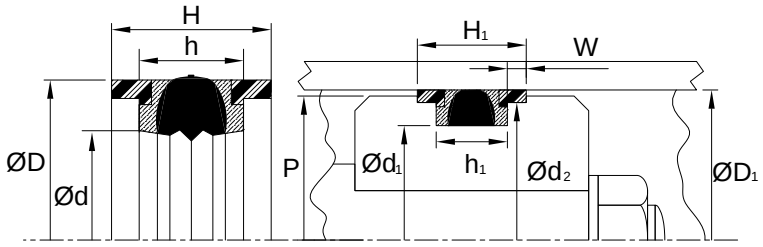
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions					$
			D	d	h	H	d1 + 000/- 003	d2 + 005/- 005	P + 000/- 005	h1 + 015/- 005	W + 000/- 005	
P3D-03500/65*	**3.500**	+.004 -.000	3.500	3.000	0.562	0.982	3.000	3.270	3.437	0.567	0.210	56.84
P3D-03750	**3.750**		3.750	3.250	0.562	0.982	3.250	3.520	3.687	0.567	0.210	19.82
P3D-03750/65*	**3.750**		3.750	3.250	0.562	0.982	3.250	3.520	3.687	0.567	0.210	56.99
P3D-04000*	**4.000**		4.000	3.500	0.562	0.982	3.500	3.770	3.937	0.567	0.210	22.02
P3D-04000/65	**4.000**		4.000	3.500	0.562	0.982	3.500	3.770	3.937	0.567	0.210	63.44
P3D-04250/65*	**4.250**		4.250	3.750	0.562	0.982	3.750	4.020	4.187	0.567	0.210	64.78
P3D-04500*	**4.500**		4.500	4.000	0.562	0.982	4.000	4.270	4.437	0.567	0.210	24.33
P3D-04500/65	**4.500**		4.500	4.000	0.562	0.982	4.000	4.270	4.437	0.567	0.210	68.23
P3D-04750/65*	**4.750**		4.750	4.250	0.562	0.982	4.250	4.520	4.687	0.567	0.210	73.18
P3D-05000*	**5.000**		5.000	4.375	0.687	1.375	4.375	4.689	4.937	0.692	0.344	26.65
P3D-05000/65	**5.000**		5.000	4.375	0.687	1.375	4.375	4.689	4.937	0.692	0.344	82.06
P3D-05250/65*	**5.250**		5.250	4.625	0.687	1.375	4.625	4.938	5.187	0.692	0.344	86.16
P3D-05500/65	**5.500**		5.500	4.875	0.687	1.375	4.875	5.188	5.437	0.692	0.344	88.55
P3D-06000*	**6.000**		6.000	5.250	1.000	2.000	5.250	5.712	5.937	1.005	0.500	29.20
P3D-06000/65*	**6.000**		6.000	5.250	1.000	2.000	5.250	5.712	5.937	1.005	0.500	93.29
P3D-06500/65*	**6.500**		6.500	5.750	1.000	2.000	5.750	6.212	6.437	1.005	0.500	99.90
P3D-07000/65*	**7.000**	+.005 -.000	7.000	6.250	1.000	2.000	6.250	6.712	6.937	1.005	0.500	114.11
P3D-07500/65*	**7.500**		7.500	6.750	1.000	2.000	6.750	7.212	7.437	1.005	0.500	114.41
P3D-08000/65	**8.000**		8.000	7.250	1.000	2.000	7.250	7.712	7.937	1.005	0.500	126.90
P3D-09000/65*	**9.000**		9.000	8.250	1.000	2.000	8.250	8.712	8.937	1.005	0.500	137.32

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Polyamide/ Polyester	-22°F to +212°F (-30°C to +100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)



P5B-style is designed for easy installation on one-piece pistons. Using a homogeneous center ring for excellent sealability. split nylon rings are added for extrusion resistance as well as split bearing rings for guiding and piston support to avoid side-loading.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter Tol.	Nominal Seal Dimensions D	d	h	H	Housing Dimensions d1 + 000/- 003	d2 + 005/- 005	P + 000/- 005	h1 + 015/- 005	W + 000/- 005	$
P5B-01000*	**1.000** +.003 -.000	1.000	0.687	0.331	0.574	0.687	0.829	0.937	0.331	0.121	19.80
P5B-01062*	**1.062**	1.062	0.750	0.312	0.428	0.750	0.900	1.038	0.312	0.058	20.08
P5B-01250*	**1.250**	1.250	0.937	0.331	0.574	0.937	1.079	1.187	0.331	0.121	21.10
P5B-01500	**1.500**	1.500	1.125	0.425	0.717	1.125	1.324	1.437	0.425	0.146	35.88
P5B-01500-1	**1.500**	1.500	1.000	0.625	1.125	1.000	1.360	1.460	0.625	0.250	12.87
P5B-01750*	**1.750**	1.750	1.375	0.425	0.717	1.375	1.574	1.687	0.425	0.146	40.70
P5B-01750-1*	**1.750**	1.750	1.375	0.490	0.973	1.375	1.638	1.710	0.490	0.241	41.29
P5B-01750-2	**1.750**	1.750	1.125	0.750	1.250	1.125	1.569	1.698	0.750	0.250	14.53
P5B-02000	**2.000**	2.000	1.625	0.437	0.737	1.625	1.821	1.937	0.425	0.146	29.11
P5B-02000-1*	**2.000**	2.000	1.625	0.478	0.961	1.625	1.888	1.960	0.478	0.241	41.79
P5B-02000-2	**2.000**	2.000	1.375	0.750	1.250	1.375	1.820	1.948	0.750	0.250	15.95
P5B-02000-2/53	**2.000**	2.000	1.375	0.750	1.250	1.375	1.820	1.948	0.750	0.250	66.30
P5B-02250*	**2.250**	2.250	1.625	0.750	1.250	1.625	2.069	2.197	0.750	0.250	31.29
P5B-02250/53*	**2.250**	2.250	1.625	0.750	1.250	1.625	2.069	2.197	0.750	0.250	76.75
P5B-02375	**2.375**	2.375	2.000	0.425	0.717	2.000	2.195	2.312	0.425	0.146	48.54
P5B-02376	**2.375**	2.375	1.750	0.750	1.250	1.734	2.194	2.322	0.750	0.250	20.29
P5B-02500	**2.500**	2.500	2.125	0.437	0.717	2.125	2.320	2.437	0.437	0.146	22.50
P5B-02500-1*	**2.500**	2.500	2.000	0.638	1.121	2.000	2.320	2.460	0.638	0.241	50.93
P5B-02500-2	**2.500**	2.500	1.875	0.750	1.250	1.875	2.318	2.446	0.750	0.250	22.50
P5B-02500-2/53	**2.500**	2.500	1.875	0.750	1.250	1.875	2.318	2.446	0.750	0.250	87.37
P5B-02625*	**2.625**	2.625	2.000	0.750	1.250	2.000	2.445	2.570	0.750	0.250	28.53
P5B-02750*	**2.750**	2.750	2.375	0.425	0.717	2.375	2.575	2.687	0.425	0.146	54.84

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P5B series - NBR/PA/POLYESTER

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1 + 000/- 003	d2 + 005/- 005	P + 000/- 005	h1 + 015/- 005	W + 000/- 005	
P5B-02750-1*	**2.750**	+.003 -.000	2.750	2.250	0.650	1.150	2.250	2.570	2.710	0.650	0.250	55.93
P5B-02750-2	**2.750**		2.750	2.000	0.937	1.437	2.000	2.522	2.685	0.937	0.250	37.39
P5B-02750-2/53*	**2.750**		2.750	2.000	0.937	1.437	2.000	2.524	2.690	0.937	0.250	50.60
P5B-03000	**3.000**	+.004 -.000	3.000	2.625	0.437	0.717	2.625	2.825	2.937	0.425	0.146	54.99
P5B-03000-1	**3.000**		3.000	2.375	0.763	1.246	2.375	2.772	2.960	0.763	0.241	58.48
P5B-03000-2	**3.000**		3.000	2.250	0.937	1.437	2.250	2.772	2.935	0.937	0.250	24.11
P5B-03000-2/53	**3.000**		3.000	2.250	0.937	1.437	2.250	2.774	2.940	0.937	0.250	90.58
P5B-03250*	**3.250**		3.250	2.625	0.775	1.257	2.625	3.021	3.184	0.775	0.241	42.20
P5B-03250-1	**3.250**		3.250	2.500	0.937	1.437	2.500	3.021	3.184	0.937	0.250	41.62
P5B-03250-1/53*	**3.250**		3.250	2.500	0.937	1.437	2.500	3.023	3.190	0.937	0.250	70.24
P5B-03500	**3.500**		3.500	3.000	0.562	0.962	3.000	3.265	3.437	0.550	0.206	71.51
P5B-03500-1	**3.500**		3.500	2.850	0.775	1.355	2.850	3.271	3.460	0.775	0.290	41.41
P5B-03500-2	**3.500**		3.500	2.750	0.937	1.437	2.750	3.271	3.434	0.937	0.250	26.28
P5B-03500-2/53	**3.500**		3.500	2.750	0.937	1.437	2.750	3.274	3.440	0.937	0.250	108.35
P5B-03500-3*	**3.500**		3.500	2.750	1.187	1.687	2.750	3.235	3.437	1.187	0.250	101.40
P5B-03750	**3.750**		3.750	3.250	0.562	0.962	3.250	3.520	3.687	0.550	0.206	75.28
P5B-03750-1*	**3.750**		3.750	3.000	0.937	1.437	3.000	3.524	3.690	0.937	0.250	46.80
P5B-03750-1/53*	**3.750**		3.750	3.000	0.937	1.437	3.000	3.524	3.690	0.937	0.250	98.60
P5B-04000	**4.000**		4.000	3.500	0.562	0.962	3.500	3.770	3.937	0.550	0.206	81.59
P5B-04000-1*	**4.000**		4.000	3.375	0.775	1.257	3.375	3.772	3.960	0.775	0.241	52.72
P5B-04000-2	**4.000**		4.000	3.250	0.937	1.437	3.250	3.770	3.940	0.937	0.250	34.93
P5B-04000-2/53	**4.000**		4.000	3.250	0.937	1.437	3.250	3.773	3.940	0.937	0.250	121.45
P5B-04250	**4.250**		4.250	3.500	0.937	1.437	3.500	4.019	4.183	0.937	0.250	91.25
P5B-04250/53*	**4.250**		4.250	3.500	0.937	1.437	3.500	4.024	4.187	0.937	0.250	129.60
P5B-04500	**4.500**		4.500	3.500	1.250	1.750	3.500	4.229	4.422	1.250	0.250	62.30
P5B-04500/53*	**4.500**		4.500	3.500	1.250	1.750	3.500	4.232	4.428	1.250	0.250	139.02
P5B-04750/53*	**4.750**		4.750	3.750	1.250	2.000	3.750	4.463	4.660	1.250	0.375	144.60
P5B-05000	**5.000**		5.000	4.250	0.963	1.446	4.250	4.772	4.960	0.963	0.241	72.87
P5B-05000-1	**5.000**		5.000	4.000	1.250	2.000	4.000	4.728	4.920	1.250	0.375	77.63
P5B-05000-1/53*	**5.000**		5.000	4.000	1.250	2.000	4.000	4.712	4.910	1.250	0.375	156.14
P5B-05250*	**5.250**		5.250	4.250	1.250	2.000	4.250	4.959	5.152	1.250	0.375	127.32
P5B-05500*	**5.500**		5.500	4.500	1.250	2.000	4.500	5.212	4.401	1.250	0.375	78.11
P5B-05500/53*	**5.500**		5.500	4.500	1.250	2.000	4.500	5.213	5.410	1.250	0.375	172.89
P5B-05500-1*	**5.500**		5.500	4.500	1.250	1.750	4.500	5.212	5.401	1.250	0.250	168.20
P5B-06000	**6.000**		6.000	5.000	1.250	2.000	5.000	5.709	5.902	1.250	0.375	95.96
P5B-06000/53*	**6.000**		6.000	5.000	1.250	2.000	5.000	5.713	5.910	1.250	0.375	183.93
P5B-06000-1*	**6.000**		6.000	5.000	1.500	2.250	5.000	5.736	5.937	1.500	0.375	178.64
P5B-06500	**6.500**		6.500	5.500	1.250	2.000	5.500	6.150	6.402	1.250	0.375	321.90
P5B-06500-1*	**6.500**		6.500	5.500	1.250	1.750	5.500	6.213	6.402	1.250	0.250	129.60
P5B-07000*	**7.000**		7.000	6.000	1.250	2.000	6.000	6.713	6.910	1.250	0.375	167.97
P5B-07000-1*	**7.000**		7.000	6.000	1.250	1.750	6.000	6.713	6.910	1.250	0.250	199.40
P5B-08000	**8.000**		8.000	7.000	1.250	2.250	7.000	7.675	7.902	1.250	0.508	305.77
P5B-08000-1*	**8.000**		8.000	7.000	1.250	2.000	7.000	7.723	7.920	1.250	0.375	321.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.







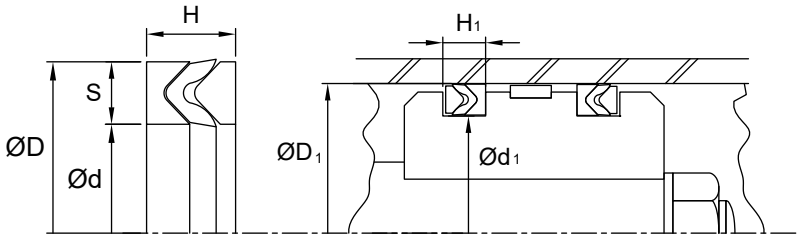


	STD VEE PACKING	E	2
	STD VEE SETS	E	26
	MV6225	E	30
	VEE COIL	E	32

Standard Vee Packing - Inch



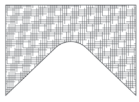
Standard Material	Temperature Range
Neo-Fabric, Nylon, Hytrel, Nitrile	-40°F to +230°F (-40°C to +110°C)



NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



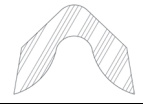
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



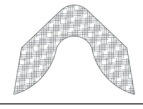
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



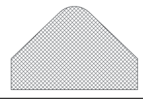
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



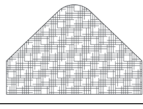
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

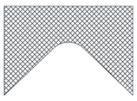


Standard Vee Packings are popular sealing devices for both pneumatic and hydraulic applications. Usually supplied as a multi-ring sealing unit, a set is made up of a given number of intermediate vee-rings as well as a male and female adapter to insure proper support. Available in both homogeneous and fabric reinforced materials for intermediate rings and in fabric-reinforced and nylon materials for the adapter rings, **Standard Vee Packings** are used to seal piston in standard cylinders.

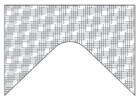
Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

CROSS SECTION - PRESSURE RATING P.S.I (INCLUDES MALE AND FEMALE ADAPTORS)											
NO VEES	**5/32**	**3/16**	**1/4**	**5/16**	**3/8**	**7/16**	**1/2**	**5/8**	**3/4**	**7/8**	**1**
2	250	250	250	250	250	250	250	250	250	250	250
3	500	500	500	500	500	500	500	500	500	500	500
4	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
5	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
6	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
7	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000
CROSS SECTION - STACK HEIGHT (INCLUDES MALE AND FEMALE ADAPTORS)											
NO VEES	**5/32**	**3/16**	**1/4**	**5/16**	**3/8**	**7/16**	**1/2**	**5/8**	**3/4**	**7/8**	**1**
2	.437	.562	.625	.687	.812	.937	1.125	1.375	1.625	1.875	2.125
3	.531	.687	.750	.843	1.000	1.156	1.375	1.687	2.000	2.312	2.625
4	.625	.812	.875	1.000	1.187	1.375	1.625	2.000	2.375	2.750	3.125
5	.718	.937	1.000	1.156	1.375	1.593	1.875	2.312	2.750	3.187	3.625
6	.812	1.062	1.125	1.312	1.562	1.812	2.125	2.625	3.125	3.625	4.125
7	.906	1.187	1.250	1.468	1.750	2.032	2.375	2.937	3.500	4.062	4.625

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



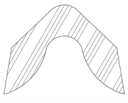
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



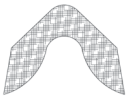
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



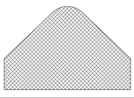
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



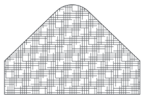
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0025000625FF*	**0.250**	0.625	0.187	2.66
V0025000625FM*	**0.250**	0.625	0.187	2.66
V0025000625FV*	**0.250**	0.625	0.187	2.66
V0025000625NF*	**0.250**	0.625	0.187	2.23
V0025000625NM*	**0.250**	0.625	0.187	2.23
V0025000750FF*	**0.250**	0.750	0.250	3.77
V0025000750FM*	**0.250**	0.750	0.250	3.77
V0025000750FV*	**0.250**	0.750	0.250	3.77
V0025000750HV*	**0.250**	0.750	0.250	2.23
V0025000875FF*	**0.250**	0.875	0.312	2.23
V0025000875FM*	**0.250**	0.875	0.312	2.23
V0025000875FV*	**0.250**	0.875	0.312	2.23
V0025001000FF*	**0.250**	1.000	0.375	2.23
V0025001000FM*	**0.250**	1.000	0.375	2.23
V0025001000FV*	**0.250**	1.000	0.375	2.23
V0025001125FF*	**0.250**	1.125	0.437	4.54
V0025001125FM*	**0.250**	1.125	0.437	4.54
V0025001125FV*	**0.250**	1.125	0.437	4.54
V0031200875FV*	**0.312**	0.875	0.282	2.32
V0037500625BV*	**0.375**	0.625	0.125	3.47
V0037500625FF*	**0.375**	0.625	0.125	3.47
V0037500625FM*	**0.375**	0.625	0.125	3.47
V0037500625FV*	**0.375**	0.625	0.125	3.47
V0037500625HV*	**0.375**	0.625	0.125	2.23
V0037500750BV*	**0.375**	0.750	0.187	3.27
V0037500750FF	**0.375**	0.750	0.187	3.27
V0037500750FM	**0.375**	0.750	0.187	3.38
V0037500750FV	**0.375**	0.750	0.187	3.38
V0037500875BV*	**0.375**	0.875	0.250	2.29
V0037500875FF	**0.375**	0.875	0.250	2.42
V0037500875FM	**0.375**	0.875	0.250	2.42
V0037500875FV	**0.375**	0.875	0.250	3.37
V0037500937FF*	**0.375**	0.937	0.281	2.71
V0037500937FM*	**0.375**	0.937	0.281	2.71
V0037500937FV*	**0.375**	0.937	0.281	2.71
V0037500937NV*	**0.375**	0.937	0.281	1.73
V0037501000FF*	**0.375**	1.000	0.312	2.45
V0037501000FM*	**0.375**	1.000	0.312	2.45
V0037501000FV*	**0.375**	1.000	0.312	2.45
V0043700812BV*	**0.437**	0.812	0.187	4.73
V0043700812FF*	**0.437**	0.812	0.187	8.58
V0043700812FM*	**0.437**	0.812	0.187	4.73
V0043700812FV	**0.437**	0.812	0.187	4.73
V0043701125FF*	**0.437**	1.125	0.344	3.25
V0043701125FV*	**0.437**	1.125	0.344	3.25
V0043701125NF*	**0.437**	1.125	0.344	3.25

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0043701125NM*	**0.437**	1.125	0.344	3.25
V0050000875BV*	**0.500**	0.875	0.187	2.18
V0050000875FF	**0.500**	0.875	0.187	3.38
V0050000875FM	**0.500**	0.875	0.187	3.38
V0050000875FV	**0.500**	0.875	0.187	3.38
V0050000875HV*	**0.500**	0.875	0.187	1.77
V0050000875NF	**0.500**	0.875	0.187	3.30
V0050000875NM*	**0.500**	0.875	0.187	3.19
V0050000937FF*	**0.500**	0.937	0.219	11.34
V0050000937FM*	**0.500**	0.937	0.219	2.67
V0050000937FV*	**0.500**	0.937	0.219	2.64
V0050000937HV*	**0.500**	0.937	0.219	3.52
V0050001000BV*	**0.500**	1.000	0.250	2.14
V0050001000FF*	**0.500**	1.000	0.250	2.05
V0050001000FM*	**0.500**	1.000	0.250	2.05
V0050001000FV	**0.500**	1.000	0.250	3.38
V0050001000HV*	**0.500**	1.000	0.250	3.31
V0050001000NF	**0.500**	1.000	0.250	2.50
V0050001000NM	**0.500**	1.000	0.250	3.38
V0050001125BV*	**0.500**	1.125	0.312	2.39
V0050001125FF*	**0.500**	1.125	0.312	2.88
V0050001125FM*	**0.500**	1.125	0.312	2.88
V0050001125FV	**0.500**	1.125	0.312	5.58
V0050001125HV*	**0.500**	1.125	0.312	2.39
V0050001250FF*	**0.500**	1.250	0.375	3.50
V0050001250FM*	**0.500**	1.250	0.375	3.50
V0050001250FV*	**0.500**	1.250	0.375	3.50
V0056200937FV*	**0.562**	0.937	0.187	5.30
V0056200937HV*	**0.562**	0.937	0.187	5.30
V0056201062FF*	**0.562**	1.062	0.250	4.42
V0056201062FM*	**0.562**	1.062	0.250	4.42
V0056201062FV*	**0.562**	1.062	0.250	4.48
V0062500875FF*	**0.625**	0.875	0.125	7.29
V0062500875FM*	**0.625**	0.875	0.125	7.29
V0062500875FV*	**0.625**	0.875	0.125	6.46
V0062500937FF*	**0.625**	0.937	0.156	15.93
V0062500937FM*	**0.625**	0.937	0.156	15.93
V0062500937FV*	**0.625**	0.937	0.156	15.93
V0062500937NM*	**0.625**	0.937	0.156	2.33
V0062501000BV*	**0.625**	1.000	0.187	2.33
V0062501000FF*	**0.625**	1.000	0.187	1.77
V0062501000FM*	**0.625**	1.000	0.187	3.38
V0062501000FV	**0.625**	1.000	0.187	4.77
V0062501000HV	**0.625**	1.000	0.187	4.36
V0062501000NF	**0.625**	1.000	0.187	3.32
V0062501000NM	**0.625**	1.000	0.187	3.38

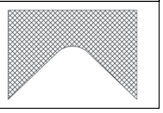
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

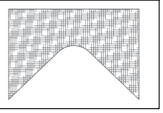
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0062501125BV	**0.625**	1.125	0.250	4.63
V0062501125FF*	**0.625**	1.125	0.250	2.12
V0062501125FM*	**0.625**	1.125	0.250	2.12
V0062501125FV	**0.625**	1.125	0.250	3.38
V0062501125HV	**0.625**	1.125	0.250	11.11
V0062501125NF	**0.625**	1.125	0.250	3.28
V0062501125NM	**0.625**	1.125	0.250	3.80
V0062501250FF*	**0.625**	1.250	0.312	2.41
V0062501250FM*	**0.625**	1.250	0.312	2.41
V0062501250FV	**0.625**	1.250	0.312	3.65
V0062501250HV*	**0.625**	1.250	0.312	5.30
V0062501250NF	**0.625**	1.250	0.312	6.57
V0062501250NM	**0.625**	1.250	0.312	4.44
V0063001065FV*	**0.630**	1.065	0.218	0.00
V0068701187FF*	**0.687**	1.187	0.250	2.68
V0068701187FM*	**0.687**	1.187	0.250	2.68
V0068701187FV*	**0.687**	1.187	0.250	4.00
V0075001125BV	**0.750**	1.125	0.187	2.23
V0075001125FF*	**0.750**	1.125	0.187	2.29
V0075001125FM*	**0.750**	1.125	0.187	2.66
V0075001125FV	**0.750**	1.125	0.187	3.51
V0075001125HV	**0.750**	1.125	0.187	5.89
V0075001125NF	**0.750**	1.125	0.187	3.72
V0075001125NM	**0.750**	1.125	0.187	4.05
V0075001187FV*	**0.750**	1.187	0.218	7.56
V0075001250BV	**0.750**	1.250	0.250	5.10
V0075001250FF	**0.750**	1.250	0.250	1.73
V0075001250FM	**0.750**	1.250	0.250	3.38
V0075001250FV	**0.750**	1.250	0.250	4.21
V0075001250NF	**0.750**	1.250	0.250	3.14
V0075001250NM	**0.750**	1.250	0.250	4.01
V0075001375BV	**0.750**	1.375	0.312	5.72
V0075001375FF	**0.750**	1.375	0.312	5.30
V0075001375FM	**0.750**	1.375	0.312	5.30
V0075001375FV	**0.750**	1.375	0.312	4.15
V0075001375NF	**0.750**	1.375	0.312	10.02
V0075001375NM	**0.750**	1.375	0.312	9.96
V0075001437FF*	**0.750**	1.437	0.344	3.66
V0075001437FM*	**0.750**	1.437	0.344	3.66
V0075001437FV*	**0.750**	1.437	0.344	3.66
V0075001500FF*	**0.750**	1.500	0.375	4.15
V0075001500FM*	**0.750**	1.500	0.375	3.92
V0075001500FV*	**0.750**	1.500	0.375	3.42
V0075001750FV*	**0.750**	1.750	0.500	4.21
V0081201312FF	**0.812**	1.312	0.250	4.07
V0081201312FM	**0.812**	1.312	0.250	3.32

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0081201312FV	**0.812**	1.312	0.250	3.38
V0081201312HV	**0.812**	1.312	0.250	8.63
V0081201312NF	**0.812**	1.312	0.250	4.43
V0081201312NM	**0.812**	1.312	0.250	6.90
V0087501250BV*	**0.875**	1.250	0.187	1.63
V0087501250FM*	**0.875**	1.250	0.187	2.30
V0087501250FV	**0.875**	1.250	0.187	3.28
V0087501250HV*	**0.875**	1.250	0.187	5.01
V0087501250NF*	**0.875**	1.250	0.187	1.75
V0087501250NM*	**0.875**	1.250	0.187	3.67
V0087501375FF*	**0.875**	1.375	0.250	3.53
V0087501375FM*	**0.875**	1.375	0.250	3.54
V0087501375FV	**0.875**	1.375	0.250	3.54
V0087501375HV*	**0.875**	1.375	0.250	3.58
V0087501375NF	**0.875**	1.375	0.250	4.39
V0087501375NM	**0.875**	1.375	0.250	4.24
V0087501375NV*	**0.875**	1.375	0.250	3.01
V0087501500BV*	**0.875**	1.500	0.312	2.16
V0087501500FF	**0.875**	1.500	0.312	3.06
V0087501500FM	**0.875**	1.500	0.312	3.06
V0087501500FV	**0.875**	1.500	0.312	3.38
V0087501500HV*	**0.875**	1.500	0.312	2.16
V0087501500NF	**0.875**	1.500	0.312	7.33
V0087501500NM	**0.875**	1.500	0.312	5.34
V0087501625FF*	**0.875**	1.625	0.375	5.10
V0087501625FM*	**0.875**	1.625	0.375	5.10
V0087501625FV*	**0.875**	1.625	0.375	5.24
V0087501625NF*	**0.875**	1.625	0.375	7.11
V0093701375FV*	**0.937**	1.375	0.219	2.64
V0093701375NV*	**0.937**	1.375	0.219	1.86
V0093701437FF*	**0.937**	1.437	0.250	9.87
V0093701437FM*	**0.937**	1.437	0.250	6.88
V0093701437FV*	**0.937**	1.437	0.250	6.88
V0100001375FF*	**1.000**	1.375	0.187	1.77
V0100001375FM*	**1.000**	1.375	0.187	1.77
V0100001375FV	**1.000**	1.375	0.187	5.98
V0100001375HV	**1.000**	1.375	0.187	3.38
V0100001375NF	**1.000**	1.375	0.187	3.38
V0100001375NM	**1.000**	1.375	0.187	3.38
V0100001375NV*	**1.000**	1.375	0.187	1.24
V0100001500BV	**1.000**	1.500	0.250	3.99
V0100001500FF*	**1.000**	1.500	0.250	3.52
V0100001500FM*	**1.000**	1.500	0.250	3.52
V0100001500FV	**1.000**	1.500	0.250	4.39
V0100001500HV	**1.000**	1.500	0.250	3.52
V0100001500NF	**1.000**	1.500	0.250	5.10

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



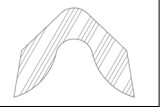
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



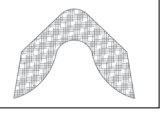
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



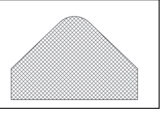
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



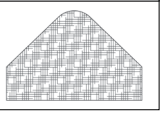
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

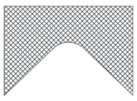


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

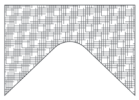


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



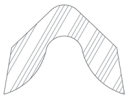
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



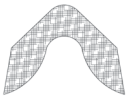
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



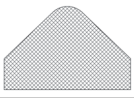
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



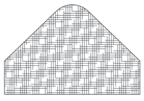
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0100001500NM	**1.000**	1.500	0.250	5.10
V0100001500NV*	**1.000**	1.500	0.250	3.52
V0100001625BV	**1.000**	1.625	0.312	4.51
V0100001625FF	**1.000**	1.625	0.312	3.38
V0100001625FM	**1.000**	1.625	0.312	3.38
V0100001625FV	**1.000**	1.625	0.312	3.88
V0100001750BV*	**1.000**	1.750	0.375	3.03
V0100001750FF*	**1.000**	1.750	0.375	2.66
V0100001750FM*	**1.000**	1.750	0.375	2.66
V0100001750FV	**1.000**	1.750	0.375	6.96
V0100001750HV	**1.000**	1.750	0.375	9.37
V0100001750NF	**1.000**	1.750	0.375	7.90
V0100001750NM	**1.000**	1.750	0.375	7.90
V0100001750NV*	**1.000**	1.750	0.375	1.88
V0100002000BV*	**1.000**	2.000	0.500	5.67
V0100002000FF*	**1.000**	2.000	0.500	5.67
V0100002000FM*	**1.000**	2.000	0.500	5.67
V0100002000FV*	**1.000**	2.000	0.500	8.38
V0100002000HV*	**1.000**	2.000	0.500	5.67
V0100002000NF*	**1.000**	2.000	0.500	8.38
V0100002000NM*	**1.000**	2.000	0.500	8.38
V0106201562FF*	**1.062**	1.562	0.250	5.57
V0106201562FM*	**1.062**	1.562	0.250	5.57
V0106201562FV*	**1.062**	1.562	0.250	5.57
V0106201687FF*	**1.062**	1.687	0.312	2.86
V0106201687FM*	**1.062**	1.687	0.312	2.86
V0106201687FV*	**1.062**	1.687	0.312	2.86
V0106201687NV*	**1.062**	1.687	0.312	2.01
V0112501500BV*	**1.125**	1.500	0.187	2.28
V0112501500FF*	**1.125**	1.500	0.187	3.51
V0112501500FM*	**1.125**	1.500	0.187	3.51
V0112501500FV*	**1.125**	1.500	0.187	3.72
V0112501500HV*	**1.125**	1.500	0.187	2.28
V0112501500NF	**1.125**	1.500	0.187	3.72
V0112501500NM*	**1.125**	1.500	0.187	3.72
V0112501625BV*	**1.125**	1.625	0.250	3.25
V0112501625FF*	**1.125**	1.625	0.250	2.17
V0112501625FM*	**1.125**	1.625	0.250	2.05
V0112501625FV	**1.125**	1.625	0.250	3.38
V0112501625HV*	**1.125**	1.625	0.250	1.57
V0112501625NF	**1.125**	1.625	0.250	3.03
V0112501625NM	**1.125**	1.625	0.250	3.38
V0112501750BV*	**1.125**	1.750	0.312	2.31
V0112501750FF*	**1.125**	1.750	0.312	2.31
V0112501750FM*	**1.125**	1.750	0.312	2.31
V0112501750FV	**1.125**	1.750	0.312	3.38

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0112501750HV*	**1.125**	1.750	0.312	2.31
V0112501750NF	**1.125**	1.750	0.312	3.34
V0112501750NM	**1.125**	1.750	0.312	3.28
V0112501812FV*	**1.125**	1.812	0.344	4.47
V0112501875BV*	**1.125**	1.875	0.375	3.65
V0112501875FF*	**1.125**	1.875	0.375	3.65
V0112501875FM*	**1.125**	1.875	0.375	3.65
V0112501875FV	**1.125**	1.875	0.375	5.67
V0112501875HV*	**1.125**	1.875	0.375	3.65
V0112501875NF*	**1.125**	1.875	0.375	5.57
V0112501875NM*	**1.125**	1.875	0.375	5.67
V0118701562FV*	**1.187**	1.562	0.187	3.87
V0118701562NF*	**1.187**	1.562	0.187	3.87
V0118701562NM*	**1.187**	1.562	0.187	3.87
V0118701687FF*	**1.187**	1.687	0.250	3.63
V0118701687FM*	**1.187**	1.687	0.250	3.80
V0118701687FV	**1.187**	1.687	0.250	3.63
V0118701687NF*	**1.187**	1.687	0.250	2.50
V0118701687NM*	**1.187**	1.687	0.250	2.50
V0118701750BV*	**1.187**	1.750	0.282	3.14
V0118701750FV	**1.187**	1.750	0.282	5.20
V0118702062FV*	**1.187**	2.062	0.437	4.72
V0125001625FF*	**1.250**	1.625	0.187	2.73
V0125001625FM*	**1.250**	1.625	0.187	2.73
V0125001625FV	**1.250**	1.625	0.187	3.51
V0125001625HV*	**1.250**	1.625	0.187	2.73
V0125001625NF*	**1.250**	1.625	0.187	4.19
V0125001625NM*	**1.250**	1.625	0.187	3.81
V0125001750BV	**1.250**	1.750	0.250	5.40
V0125001750FF	**1.250**	1.750	0.250	3.37
V0125001750FM	**1.250**	1.750	0.250	4.43
V0125001750FV	**1.250**	1.750	0.250	4.66
V0125001750HV	**1.250**	1.750	0.250	13.86
V0125001750NF	**1.250**	1.750	0.250	4.69
V0125001750NM	**1.250**	1.750	0.250	4.69
V0125001750NV*	**1.250**	1.750	0.250	1.16
V0125001875BV*	**1.250**	1.875	0.312	5.16
V0125001875FF	**1.250**	1.875	0.312	3.73
V0125001875FM	**1.250**	1.875	0.312	3.73
V0125001875FV	**1.250**	1.875	0.312	4.77
V0125001875NF	**1.250**	1.875	0.312	6.44
V0125001875NM	**1.250**	1.875	0.312	6.44
V0125002000FF*	**1.250**	2.000	0.375	2.79
V0125002000FM*	**1.250**	2.000	0.375	2.79
V0125002000FV	**1.250**	2.000	0.375	7.44
V0125002000HV	**1.250**	2.000	0.375	3.38

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

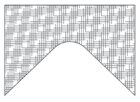
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0125002000NF	**1.250**	2.000	0.375	3.38
V0125002000NM	**1.250**	2.000	0.375	3.36
V0125002125FF*	**1.250**	2.125	0.437	4.06
V0125002125FM*	**1.250**	2.125	0.437	4.06
V0125002125FV*	**1.250**	2.125	0.437	11.34
V0125002125NF*	**1.250**	2.125	0.437	12.16
V0125002125NM*	**1.250**	2.125	0.437	12.16
V0125002250FM*	**1.250**	2.250	0.500	4.06
V0125002250FV*	**1.250**	2.250	0.500	14.01
V0125002250NF*	**1.250**	2.250	0.500	5.47
V0125002250NM*	**1.250**	2.250	0.500	5.24
V0125002500FF*	**1.250**	2.500	0.625	15.78
V0125002500FM*	**1.250**	2.500	0.625	9.00
V0125002500FV	**1.250**	2.500	0.625	9.00
V0131201812FF	**1.312**	1.812	0.250	4.28
V0131201812FM	**1.312**	1.812	0.250	4.28
V0131201812FV	**1.312**	1.812	0.250	8.04
V0131202062FF	**1.312**	2.062	0.375	6.60
V0131202062FM	**1.312**	2.062	0.375	6.60
V0131202062FV	**1.312**	2.062	0.375	6.60
V0137501750FF*	**1.375**	1.750	0.187	2.59
V0137501750FM*	**1.375**	1.750	0.187	2.59
V0137501750FV*	**1.375**	1.750	0.187	3.38
V0137501750HV*	**1.375**	1.750	0.187	2.48
V0137501750NF*	**1.375**	1.750	0.187	3.81
V0137501750NM*	**1.375**	1.750	0.187	3.58
V0137501875BV	**1.375**	1.875	0.250	4.95
V0137501875FF*	**1.375**	1.875	0.250	4.43
V0137501875FM*	**1.375**	1.875	0.250	3.27
V0137501875FV	**1.375**	1.875	0.250	4.93
V0137501875HV	**1.375**	1.875	0.250	14.08
V0137501875NF	**1.375**	1.875	0.250	3.85
V0137501875NM	**1.375**	1.875	0.250	4.61
V0137502000FF*	**1.375**	2.000	0.312	2.38
V0137502000FM	**1.375**	2.000	0.312	3.38
V0137502000FV	**1.375**	2.000	0.312	3.48
V0137502000HV	**1.375**	2.000	0.312	5.01
V0137502000NF	**1.375**	2.000	0.312	3.48
V0137502000NM	**1.375**	2.000	0.312	3.48
V0137502000VV*	**1.375**	2.000	0.312	16.83
V0137502125BV*	**1.375**	2.125	0.375	5.05
V0137502125FF*	**1.375**	2.125	0.375	3.05
V0137502125FM*	**1.375**	2.125	0.375	3.01
V0137502125FV	**1.375**	2.125	0.375	5.40
V0137502125HV*	**1.375**	2.125	0.375	3.12
V0137502125NF*	**1.375**	2.125	0.375	5.75

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0137502125NM*	**1.375**	2.125	0.375	5.93
V0137502250FV*	**1.375**	2.250	0.437	11.43
V0137502250NF*	**1.375**	2.250	0.437	10.00
V0137502250NM*	**1.375**	2.250	0.437	11.01
V0143701937BV*	**1.437**	1.937	0.250	2.73
V0143701937FF	**1.437**	1.937	0.250	3.72
V0143701937FM	**1.437**	1.937	0.250	3.72
V0143701937FV	**1.437**	1.937	0.250	4.72
V0143701937HV*	**1.437**	1.937	0.250	2.73
V0143702000FV*	**1.437**	2.000	0.281	13.55
V0143702062FF*	**1.437**	2.062	0.312	4.77
V0143702062FM*	**1.437**	2.062	0.312	4.77
V0143702062FV*	**1.437**	2.062	0.312	4.77
V0143702125FV*	**1.437**	2.125	0.344	4.62
V0143702187FF*	**1.437**	2.187	0.375	6.51
V0143702187FM*	**1.437**	2.187	0.375	6.51
V0143702187FV*	**1.437**	2.187	0.375	6.51
V0150001875FF*	**1.500**	1.875	0.187	2.86
V0150001875FM*	**1.500**	1.875	0.187	2.86
V0150001875FV	**1.500**	1.875	0.187	4.43
V0150001875NF	**1.500**	1.875	0.187	3.62
V0150001875NM	**1.500**	1.875	0.187	3.62
V0150002000FF	**1.500**	2.000	0.250	3.38
V0150002000FM	**1.500**	2.000	0.250	3.38
V0150002000FV	**1.500**	2.000	0.250	4.61
V0150002000HV	**1.500**	2.000	0.250	3.81
V0150002000NF	**1.500**	2.000	0.250	3.52
V0150002000NM	**1.500**	2.000	0.250	3.52
V0150002000NV*	**1.500**	2.000	0.250	1.18
V0150002125BV*	**1.500**	2.125	0.312	2.45
V0150002125FF	**1.500**	2.125	0.312	3.48
V0150002125FM	**1.500**	2.125	0.312	3.48
V0150002125FV	**1.500**	2.125	0.312	3.48
V0150002125HV	**1.500**	2.125	0.312	3.38
V0150002125NF	**1.500**	2.125	0.312	3.38
V0150002125NM	**1.500**	2.125	0.312	3.38
V0150002250FF*	**1.500**	2.250	0.375	5.06
V0150002250FM*	**1.500**	2.250	0.375	4.73
V0150002250FV	**1.500**	2.250	0.375	5.14
V0150002250HV*	**1.500**	2.250	0.375	7.34
V0150002250NF	**1.500**	2.250	0.375	7.34
V0150002250NM	**1.500**	2.250	0.375	7.34
V0150002375FV*	**1.500**	2.375	0.437	12.20
V0150002375NF*	**1.500**	2.375	0.437	12.07
V0150002375NM*	**1.500**	2.375	0.437	11.92
V0150002500FF*	**1.500**	2.500	0.500	6.20

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



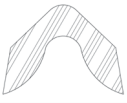
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



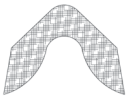
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



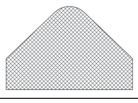
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



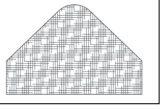
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

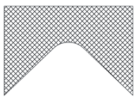


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

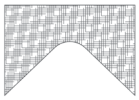


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



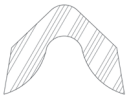
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



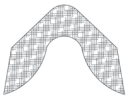
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



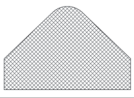
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



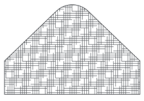
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0150002500FM*	**1.500**	2.500	0.500	6.20
V0150002500FV*	**1.500**	2.500	0.500	5.82
V0150002500HV*	**1.500**	2.500	0.500	4.53
V0150002500NF*	**1.500**	2.500	0.500	4.51
V0150002500NM*	**1.500**	2.500	0.500	4.21
V0162502000BV	**1.625**	2.000	0.187	6.00
V0162502000FF*	**1.625**	2.000	0.187	6.00
V0162502000FM*	**1.625**	2.000	0.187	6.00
V0162502000FV*	**1.625**	2.000	0.187	6.00
V0162502000HV*	**1.625**	2.000	0.187	2.59
V0162502125BV	**1.625**	2.125	0.250	7.65
V0162502125FF*	**1.625**	2.125	0.250	2.10
V0162502125FM*	**1.625**	2.125	0.250	1.88
V0162502125FV	**1.625**	2.125	0.250	3.38
V0162502125HV	**1.625**	2.125	0.250	5.05
V0162502125NF	**1.625**	2.125	0.250	4.42
V0162502125NM	**1.625**	2.125	0.250	5.29
V0162502250BV*	**1.625**	2.250	0.312	2.52
V0162502250FF*	**1.625**	2.250	0.312	2.52
V0162502250FM*	**1.625**	2.250	0.312	3.21
V0162502250FV	**1.625**	2.250	0.312	3.53
V0162502250HV*	**1.625**	2.250	0.312	6.22
V0162502250NF	**1.625**	2.250	0.312	6.69
V0162502250NM	**1.625**	2.250	0.312	6.34
V0162502375BV	**1.625**	2.375	0.375	7.58
V0162502375FF	**1.625**	2.375	0.375	5.90
V0162502375FM*	**1.625**	2.375	0.375	3.93
V0162502375FV	**1.625**	2.375	0.375	8.06
V0162502375NF	**1.625**	2.375	0.375	9.39
V0162502375NM	**1.625**	2.375	0.375	9.39
V0175002125FV	**1.750**	2.125	0.187	4.69
V0175002125HV	**1.750**	2.125	0.187	3.60
V0175002125NF	**1.750**	2.125	0.187	3.60
V0175002125NM	**1.750**	2.125	0.187	3.60
V0175002250BV*	**1.750**	2.250	0.250	3.40
V0175002250FF*	**1.750**	2.250	0.250	1.74
V0175002250FM*	**1.750**	2.250	0.250	2.16
V0175002250FV	**1.750**	2.250	0.250	3.38
V0175002250HV	**1.750**	2.250	0.250	6.75
V0175002250NF	**1.750**	2.250	0.250	4.48
V0175002250NM	**1.750**	2.250	0.250	3.96
V0175002250NV*	**1.750**	2.250	0.250	1.27
V0175002265FV*	**1.750**	2.265	0.258	8.00
V0175002265HV*	**1.750**	2.265	0.258	4.66
V0175002265NF*	**1.750**	2.265	0.258	4.66
V0175002265NM*	**1.750**	2.265	0.258	4.66

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0175002375FF*	**1.750**	2.375	0.312	2.52
V0175002375FM*	**1.750**	2.375	0.312	2.52
V0175002375FV	**1.750**	2.375	0.312	3.58
V0175002375HV	**1.750**	2.375	0.312	12.53
V0175002375NF	**1.750**	2.375	0.312	3.74
V0175002375NM	**1.750**	2.375	0.312	3.81
V0175002500FF*	**1.750**	2.500	0.375	3.29
V0175002500FM*	**1.750**	2.500	0.375	3.29
V0175002500FV	**1.750**	2.500	0.375	6.26
V0175002500HV*	**1.750**	2.500	0.375	4.48
V0175002500NF	**1.750**	2.500	0.375	3.38
V0175002500NM	**1.750**	2.500	0.375	3.59
V0175002750FF*	**1.750**	2.750	0.500	5.05
V0175002750FM*	**1.750**	2.750	0.500	4.75
V0175002750FV	**1.750**	2.750	0.500	8.09
V0175002750HV*	**1.750**	2.750	0.500	7.85
V0175002750NF	**1.750**	2.750	0.500	8.09
V0175002750NM	**1.750**	2.750	0.500	8.09
V0187502250FV*	**1.875**	2.250	0.187	3.58
V0187502375BV*	**1.875**	2.375	0.250	2.10
V0187502375FF*	**1.875**	2.375	0.250	1.95
V0187502375FM*	**1.875**	2.375	0.250	1.95
V0187502375FV	**1.875**	2.375	0.250	3.38
V0187502375HV*	**1.875**	2.375	0.250	4.58
V0187502375NF	**1.875**	2.375	0.250	5.29
V0187502375NM	**1.875**	2.375	0.250	4.46
V0187502500BV*	**1.875**	2.500	0.312	6.69
V0187502500FF	**1.875**	2.500	0.312	3.91
V0187502500FM*	**1.875**	2.500	0.312	3.91
V0187502500FV	**1.875**	2.500	0.312	3.91
V0187502500NF	**1.875**	2.500	0.312	5.85
V0187502500NM	**1.875**	2.500	0.312	3.91
V0187502625BV*	**1.875**	2.625	0.375	4.53
V0187502625FV	**1.875**	2.625	0.375	5.43
V0187502625HV*	**1.875**	2.625	0.375	4.53
V0187502625NF	**1.875**	2.625	0.375	6.43
V0187502625NM	**1.875**	2.625	0.375	11.20
V0193702437FF*	**1.937**	2.437	0.250	6.42
V0193702437FM*	**1.937**	2.437	0.250	6.42
V0193702437FV*	**1.937**	2.437	0.250	3.49
V0193702437HV*	**1.937**	2.437	0.250	3.49
V0193702437NF*	**1.937**	2.437	0.250	3.49
V0193702437NM*	**1.937**	2.437	0.250	3.49
V0193702687FF*	**1.937**	2.687	0.375	7.03
V0193702687FM	**1.937**	2.687	0.375	4.83
V0193702687FV	**1.937**	2.687	0.375	4.83

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

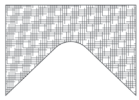
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0197002520FF*	**1.970**	2.520	0.275	3.14
V0197002520FM*	**1.970**	2.520	0.275	3.14
V0197002520FV*	**1.970**	2.520	0.275	3.14
V0197002520HV*	**1.970**	2.520	0.275	3.14
V0197002520NF*	**1.970**	2.520	0.275	3.14
V0197002520NM*	**1.970**	2.520	0.275	3.14
V0199502525FV*	**1.995**	2.525	0.265	7.58
V0199502525HV*	**1.995**	2.525	0.265	4.20
V0199502525NF*	**1.995**	2.525	0.265	4.20
V0199502525NM*	**1.995**	2.525	0.265	4.20
V0200002375BV*	**2.000**	2.375	0.187	4.59
V0200002375FF	**2.000**	2.375	0.187	4.59
V0200002375FM*	**2.000**	2.375	0.187	4.59
V0200002375FV*	**2.000**	2.375	0.187	4.83
V0200002375HV*	**2.000**	2.375	0.187	4.59
V0200002375NF*	**2.000**	2.375	0.187	4.59
V0200002375NM*	**2.000**	2.375	0.187	4.59
V0200002500FF	**2.000**	2.500	0.250	3.21
V0200002500FM	**2.000**	2.500	0.250	3.38
V0200002500FV	**2.000**	2.500	0.250	4.00
V0200002500HF*	**2.000**	2.500	0.250	1.24
V0200002500HV	**2.000**	2.500	0.250	7.15
V0200002500NF	**2.000**	2.500	0.250	4.05
V0200002500NM	**2.000**	2.500	0.250	4.05
V0200002500NV*	**2.000**	2.500	0.250	1.45
V0200002625BV	**2.000**	2.625	0.312	7.87
V0200002625FF	**2.000**	2.625	0.312	3.70
V0200002625FM	**2.000**	2.625	0.312	3.72
V0200002625FV	**2.000**	2.625	0.312	3.72
V0200002625HV	**2.000**	2.625	0.312	8.82
V0200002625NF	**2.000**	2.625	0.312	3.76
V0200002625NM	**2.000**	2.625	0.312	4.03
V0200002687BV*	**2.000**	2.687	0.344	12.32
V0200002687FF	**2.000**	2.687	0.344	12.78
V0200002687FM	**2.000**	2.687	0.344	12.78
V0200002687FV	**2.000**	2.687	0.344	6.65
V0200002750BV*	**2.000**	2.750	0.375	12.65
V0200002750FF	**2.000**	2.750	0.375	5.77
V0200002750FM	**2.000**	2.750	0.375	5.77
V0200002750FV	**2.000**	2.750	0.375	5.77
V0200002750HV	**2.000**	2.750	0.375	3.53
V0200002750NF	**2.000**	2.750	0.375	3.53
V0200002750NM	**2.000**	2.750	0.375	3.53
V0200002875FF*	**2.000**	2.875	0.437	16.30
V0200002875FM*	**2.000**	2.875	0.437	16.30
V0200002875FV	**2.000**	2.875	0.437	16.30

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0200003000FM*	**2.000**	3.000	0.500	5.23
V0200003000FV	**2.000**	3.000	0.500	8.32
V0200003000HV*	**2.000**	3.000	0.500	5.23
V0200003000NF	**2.000**	3.000	0.500	17.45
V0200003000NM	**2.000**	3.000	0.500	17.45
V0212502562FF*	**2.125**	2.562	0.219	4.62
V0212502562FM*	**2.125**	2.562	0.219	4.62
V0212502562FV*	**2.125**	2.562	0.219	4.62
V0212502625FF*	**2.125**	2.625	0.250	3.74
V0212502625FM*	**2.125**	2.625	0.250	3.74
V0212502625FV*	**2.125**	2.625	0.250	3.74
V0212502625HV*	**2.125**	2.625	0.250	3.74
V0212502750BV	**2.125**	2.750	0.312	6.67
V0212502750FF*	**2.125**	2.750	0.312	4.03
V0212502750FM*	**2.125**	2.750	0.312	4.03
V0212502750FV	**2.125**	2.750	0.312	4.03
V0212502750HV	**2.125**	2.750	0.312	4.86
V0212502750NF	**2.125**	2.750	0.312	4.48
V0212502750NM	**2.125**	2.750	0.312	4.48
V0212502875BV*	**2.125**	2.875	0.375	6.46
V0212502875FV*	**2.125**	2.875	0.375	8.17
V0212502875HV*	**2.125**	2.875	0.375	6.96
V0212502875NF*	**2.125**	2.875	0.375	8.37
V0212502875NM*	**2.125**	2.875	0.375	8.37
V0212503000FF*	**2.125**	3.000	0.437	7.23
V0212503000FM*	**2.125**	3.000	0.437	7.23
V0212503000FV*	**2.125**	3.000	0.437	12.92
V0212503000HV*	**2.125**	3.000	0.437	5.66
V0212503125FF*	**2.125**	3.125	0.500	9.78
V0212503125FM*	**2.125**	3.125	0.500	9.78
V0212503125FV	**2.125**	3.125	0.500	13.37
V0218702687FF*	**2.187**	2.687	0.250	4.19
V0218702687FM*	**2.187**	2.687	0.250	4.19
V0218702937FF*	**2.187**	2.937	0.375	4.42
V0218702937FM*	**2.187**	2.937	0.375	4.42
V0218702937FV*	**2.187**	2.937	0.375	4.42
V0220002700FV	**2.200**	2.700	0.250	4.48
V0220002700HV*	**2.200**	2.700	0.250	3.18
V0220002700NF	**2.200**	2.700	0.250	3.18
V0220002700NM	**2.200**	2.700	0.250	3.18
V0220002765FV*	**2.200**	2.765	0.283	11.67
V0220002765NF*	**2.200**	2.765	0.283	11.67
V0220002765NM*	**2.200**	2.765	0.283	11.67
V0222502775FV*	**2.225**	2.775	0.275	16.93
V0225002750FF*	**2.250**	2.750	0.250	3.38
V0225002750FM*	**2.250**	2.750	0.250	3.38

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



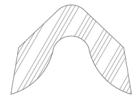
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



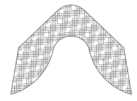
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



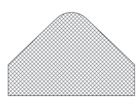
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



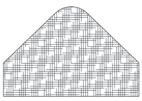
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

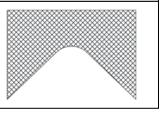


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

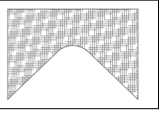


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



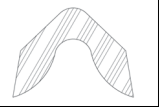
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



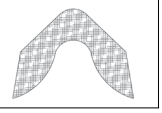
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



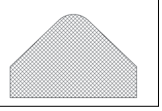
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



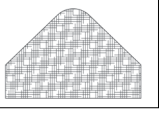
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0225002750FV	**2.250**	2.750	0.250	3.58
V0225002750HV	**2.250**	2.750	0.250	5.83
V0225002750NF	**2.250**	2.750	0.250	3.43
V0225002750NM	**2.250**	2.750	0.250	3.38
V0225002750NV*	**2.250**	2.750	0.250	1.42
V0225002875BV*	**2.250**	2.875	0.312	2.90
V0225002875FF*	**2.250**	2.875	0.312	5.01
V0225002875FM*	**2.250**	2.875	0.312	5.01
V0225002875FV	**2.250**	2.875	0.312	5.02
V0225002875HV*	**2.250**	2.875	0.312	5.02
V0225002875NF	**2.250**	2.875	0.312	5.02
V0225002875NM	**2.250**	2.875	0.312	10.19
V0225003000BV*	**2.250**	3.000	0.375	18.18
V0225003000FF	**2.250**	3.000	0.375	6.05
V0225003000FM	**2.250**	3.000	0.375	6.05
V0225003000FV	**2.250**	3.000	0.375	6.05
V0225003000HV*	**2.250**	3.000	0.375	9.10
V0225003000NF	**2.250**	3.000	0.375	9.28
V0225003000NM	**2.250**	3.000	0.375	9.31
V0225003020FF*	**2.250**	3.020	0.385	7.30
V0225003020FM*	**2.250**	3.020	0.385	7.30
V0225003020FV*	**2.250**	3.020	0.385	7.30
V0225003125FF*	**2.250**	3.125	0.437	6.96
V0225003125FM*	**2.250**	3.125	0.437	6.96
V0225003125FV*	**2.250**	3.125	0.437	17.88
V0225003125HV*	**2.250**	3.125	0.437	6.96
V0225003125NF*	**2.250**	3.125	0.437	13.16
V0225003125NM*	**2.250**	3.125	0.437	13.30
V0225003250FF	**2.250**	3.250	0.500	9.39
V0225003250FM	**2.250**	3.250	0.500	8.32
V0225003250FV	**2.250**	3.250	0.500	8.32
V0225003500FF*	**2.250**	3.500	0.625	11.81
V0225003500FM*	**2.250**	3.500	0.625	11.81
V0225003500FV*	**2.250**	3.500	0.625	11.81
V0225003500NV*	**2.250**	3.500	0.625	8.34
V0227503025FM*	**2.275**	3.025	0.375	3.89
V0227503025FV	**2.275**	3.025	0.375	7.23
V0227503025HV	**2.275**	3.025	0.375	7.23
V0227503025NF	**2.275**	3.025	0.375	7.23
V0227503025NM*	**2.275**	3.025	0.375	7.23
V0231202937FV*	**2.312**	2.937	0.312	5.31
V0237502875FF*	**2.375**	2.875	0.250	6.37
V0237502875FM*	**2.375**	2.875	0.250	6.37
V0237502875FV	**2.375**	2.875	0.250	6.37
V0237502875HV	**2.375**	2.875	0.250	6.37
V0237502875NF*	**2.375**	2.875	0.250	6.37

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0237502875NM*	**2.375**	2.875	0.250	6.37
V0237503000BV*	**2.375**	3.000	0.312	5.09
V0237503000FF	**2.375**	3.000	0.312	5.09
V0237503000FM*	**2.375**	3.000	0.312	3.48
V0237503000FV	**2.375**	3.000	0.312	5.09
V0237503000NF	**2.375**	3.000	0.312	11.23
V0237503000NM	**2.375**	3.000	0.312	6.10
V0237503125BV*	**2.375**	3.125	0.375	4.79
V0237503125FF*	**2.375**	3.125	0.375	4.79
V0237503125FM*	**2.375**	3.125	0.375	4.79
V0237503125FV	**2.375**	3.125	0.375	6.24
V0237503125HV*	**2.375**	3.125	0.375	4.79
V0237503125NF	**2.375**	3.125	0.375	5.71
V0237503125NM	**2.375**	3.125	0.375	8.77
V0237503375FF*	**2.375**	3.375	0.500	8.28
V0237503375FM*	**2.375**	3.375	0.500	8.28
V0237503375FV*	**2.375**	3.375	0.500	8.28
V0243703187FV*	**2.437**	3.187	0.375	17.95
V0243703437FF*	**2.437**	3.437	0.500	11.88
V0243703437FM*	**2.437**	3.437	0.500	11.88
V0243703437FV*	**2.437**	3.437	0.500	22.55
V0245003000FV*	**2.450**	3.000	0.275	4.51
V0245003000NF*	**2.450**	3.000	0.275	5.77
V0245003000NM*	**2.450**	3.000	0.275	4.51
V0245003020FV*	**2.450**	3.020	0.285	11.44
V0245003020NF*	**2.450**	3.020	0.285	5.31
V0245003020NM*	**2.450**	3.020	0.285	11.92
V0250002875FF*	**2.500**	2.875	0.187	2.01
V0250002875FM*	**2.500**	2.875	0.187	2.01
V0250002875FV	**2.500**	2.875	0.187	5.15
V0250002875HV	**2.500**	2.875	0.187	5.14
V0250002875NF	**2.500**	2.875	0.187	5.15
V0250002875NM	**2.500**	2.875	0.187	5.15
V0250003000BV	**2.500**	3.000	0.250	7.76
V0250003000FF	**2.500**	3.000	0.250	3.34
V0250003000FM	**2.500**	3.000	0.250	6.01
V0250003000FV	**2.500**	3.000	0.250	3.62
V0250003000HV	**2.500**	3.000	0.250	6.05
V0250003000NF	**2.500**	3.000	0.250	4.26
V0250003000NM	**2.500**	3.000	0.250	4.29
V0250003000NV*	**2.500**	3.000	0.250	3.32
V0250003125BV	**2.500**	3.125	0.312	5.41
V0250003125FF	**2.500**	3.125	0.312	4.80
V0250003125FM*	**2.500**	3.125	0.312	4.80
V0250003125FV	**2.500**	3.125	0.312	5.73
V0250003125HV	**2.500**	3.125	0.312	10.17

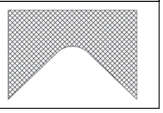
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

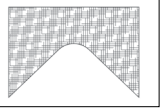
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0250003125NF	**2.500**	3.125	0.312	7.01
V0250003125NM	**2.500**	3.125	0.312	7.01
V0250003125NV*	**2.500**	3.125	0.312	2.21
V0250003250BV	**2.500**	3.250	0.375	7.14
V0250003250FF	**2.500**	3.250	0.375	6.36
V0250003250FM	**2.500**	3.250	0.375	6.35
V0250003250FV	**2.500**	3.250	0.375	6.22
V0250003250HV	**2.500**	3.250	0.375	6.19
V0250003250NF	**2.500**	3.250	0.375	4.48
V0250003250NM	**2.500**	3.250	0.375	4.48
V0250003250NV*	**2.500**	3.250	0.375	3.20
V0250003375FF	**2.500**	3.375	0.437	22.93
V0250003375FM	**2.500**	3.375	0.437	20.91
V0250003375FV	**2.500**	3.375	0.437	20.91
V0250003375HV*	**2.500**	3.375	0.437	7.81
V0250003500BV*	**2.500**	3.500	0.500	6.06
V0250003500FF*	**2.500**	3.500	0.500	8.33
V0250003500FM*	**2.500**	3.500	0.500	6.06
V0250003500FV	**2.500**	3.500	0.500	10.62
V0250003500HV*	**2.500**	3.500	0.500	6.06
V0250003500NF	**2.500**	3.500	0.500	15.54
V0250003500NM	**2.500**	3.500	0.500	16.24
V0250003750FF*	**2.500**	3.750	0.625	12.66
V0250003750FM*	**2.500**	3.750	0.625	12.66
V0250003750FV*	**2.500**	3.750	0.625	18.50
V0258003110BV*	**2.580**	3.110	0.265	3.83
V0258003110FV*	**2.580**	3.110	0.265	4.51
V0258003110HV*	**2.580**	3.110	0.265	3.83
V0258003110NF*	**2.580**	3.110	0.265	4.51
V0258003110NM*	**2.580**	3.110	0.265	4.51
V0262503000FV*	**2.625**	3.000	0.187	5.54
V0262503125FF	**2.625**	3.125	0.250	7.99
V0262503125FM	**2.625**	3.125	0.250	7.99
V0262503125FV	**2.625**	3.125	0.250	7.99
V0262503250FF*	**2.625**	3.250	0.312	3.08
V0262503250FM*	**2.625**	3.250	0.312	3.08
V0262503250FV	**2.625**	3.250	0.312	4.55
V0262503250HV	**2.625**	3.250	0.312	4.55
V0262503250NF	**2.625**	3.250	0.312	5.32
V0262503250NM*	**2.625**	3.250	0.312	5.32
V0262503375FF*	**2.625**	3.375	0.375	5.24
V0262503375FM*	**2.625**	3.375	0.375	5.24
V0262503375FV*	**2.625**	3.375	0.375	14.95
V0262503375HV*	**2.625**	3.375	0.375	6.72
V0262503375NF*	**2.625**	3.375	0.375	8.77
V0262503375NM*	**2.625**	3.375	0.375	7.03

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0262503500BV*	**2.625**	3.500	0.437	13.51
V0262503500FF*	**2.625**	3.500	0.437	8.39
V0262503500FM*	**2.625**	3.500	0.437	8.39
V0262503500FV*	**2.625**	3.500	0.437	8.39
V0270003450FV*	**2.700**	3.450	0.375	6.49
V0270003450HV*	**2.700**	3.450	0.375	6.49
V0270003450NF*	**2.700**	3.450	0.375	13.07
V0270003450NM*	**2.700**	3.450	0.375	7.15
V0275003250FF*	**2.750**	3.250	0.250	2.26
V0275003250FM*	**2.750**	3.250	0.250	2.26
V0275003250FV	**2.750**	3.250	0.250	3.77
V0275003250HV	**2.750**	3.250	0.250	4.38
V0275003250NF	**2.750**	3.250	0.250	3.62
V0275003250NM	**2.750**	3.250	0.250	3.62
V0275003250NV*	**2.750**	3.250	0.250	1.58
V0275003375FF*	**2.750**	3.375	0.312	3.37
V0275003375FM*	**2.750**	3.375	0.312	3.37
V0275003375FV	**2.750**	3.375	0.312	4.86
V0275003375HV	**2.750**	3.375	0.312	4.67
V0275003375NF	**2.750**	3.375	0.312	3.62
V0275003375NM	**2.750**	3.375	0.312	4.24
V0275003500FF	**2.750**	3.500	0.375	6.59
V0275003500FM	**2.750**	3.500	0.375	6.59
V0275003500FV	**2.750**	3.500	0.375	6.59
V0275003500HV	**2.750**	3.500	0.375	6.80
V0275003500NF	**2.750**	3.500	0.375	6.59
V0275003500NM	**2.750**	3.500	0.375	6.59
V0275003525NF	**2.750**	3.525	0.388	9.33
V0275003525NM*	**2.750**	3.525	0.388	4.84
V0275003530FV*	**2.750**	3.530	0.390	9.53
V0275003625FF*	**2.750**	3.625	0.437	8.39
V0275003625FM*	**2.750**	3.625	0.437	8.39
V0275003625FV*	**2.750**	3.625	0.437	8.39
V0275003750BV	**2.750**	3.750	0.500	12.46
V0275003750FF	**2.750**	3.750	0.500	12.46
V0275003750FM	**2.750**	3.750	0.500	12.46
V0275003750FV	**2.750**	3.750	0.500	10.11
V0275003750HV*	**2.750**	3.750	0.500	14.92
V0275003750NF*	**2.750**	3.750	0.500	11.44
V0275003875FF*	**2.750**	3.875	0.563	7.27
V0275003875FM*	**2.750**	3.875	0.563	7.27
V0275003875FV*	**2.750**	3.875	0.563	7.27
V0275003875HV*	**2.750**	3.875	0.563	7.27
V0277503525FV*	**2.775**	3.525	0.375	7.85
V0277503525HV*	**2.775**	3.525	0.375	7.85
V0277503525NF*	**2.775**	3.525	0.375	9.06

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



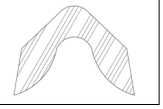
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



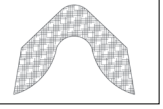
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



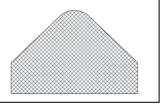
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



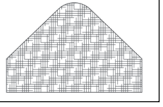
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

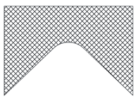


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

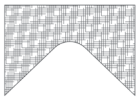


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



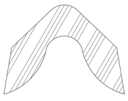
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



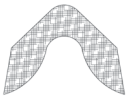
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



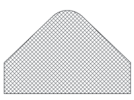
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



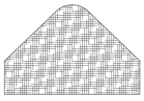
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0277503525NM*	**2.775**	3.525	0.375	7.85
V0287503250FV*	**2.875**	3.250	0.187	4.50
V0287503375FF*	**2.875**	3.375	0.250	2.32
V0287503375FM*	**2.875**	3.375	0.250	2.32
V0287503375FV*	**2.875**	3.375	0.250	5.19
V0287503375NF	**2.875**	3.375	0.250	5.19
V0287503375NM	**2.875**	3.375	0.250	5.19
V0287503500BV*	**2.875**	3.500	0.312	8.37
V0287503500FF*	**2.875**	3.500	0.312	8.37
V0287503500FM*	**2.875**	3.500	0.312	8.37
V0287503500FV*	**2.875**	3.500	0.312	8.37
V0287503500NM*	**2.875**	3.500	0.312	5.89
V0287503500NV*	**2.875**	3.500	0.312	3.55
V0287503625FF*	**2.875**	3.625	0.375	30.36
V0287503625FM*	**2.875**	3.625	0.375	8.64
V0287503625FV*	**2.875**	3.625	0.375	8.82
V0287503875FF*	**2.875**	3.875	0.500	7.22
V0287503875FM*	**2.875**	3.875	0.500	7.22
V0287503875FV*	**2.875**	3.875	0.500	7.22
V0287503875HV*	**2.875**	3.875	0.500	7.22
V0287503875NF*	**2.875**	3.875	0.500	7.22
V0293704250FF*	**2.937**	4.250	0.657	15.95
V0293704250FM*	**2.937**	4.250	0.657	15.95
V0293704250FV*	**2.937**	4.250	0.657	15.95
V0293704250NM*	**2.937**	4.250	0.657	15.95
V0295003450FV	**2.950**	3.450	0.250	4.53
V0295003450HV	**2.950**	3.450	0.250	4.53
V0295003450NF*	**2.950**	3.450	0.250	4.53
V0295003450NM*	**2.950**	3.450	0.250	13.35
V0295003500FF*	**2.950**	3.500	0.275	3.75
V0295003500FM*	**2.950**	3.500	0.275	3.75
V0295003500FV	**2.950**	3.500	0.275	4.76
V0295003500HV*	**2.950**	3.500	0.275	4.37
V0295003500NF	**2.950**	3.500	0.275	4.37
V0295003500NM	**2.950**	3.500	0.275	13.11
V0297003520FV*	**2.970**	3.520	0.275	4.05
V0297003520HV	**2.970**	3.520	0.275	4.05
V0297003520NF*	**2.970**	3.520	0.275	4.05
V0297003520NM	**2.970**	3.520	0.275	4.05
V0300003500BV*	**3.000**	3.500	0.250	9.25
V0300003500FF*	**3.000**	3.500	0.250	4.20
V0300003500FM	**3.000**	3.500	0.250	4.24
V0300003500FV	**3.000**	3.500	0.250	7.89
V0300003500HF*	**3.000**	3.500	0.250	1.80
V0300003500HV	**3.000**	3.500	0.250	7.89
V0300003500NF	**3.000**	3.500	0.250	5.20

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0300003500NM	**3.000**	3.500	0.250	5.03
V0300003500NV	**3.000**	3.500	0.250	12.34
V0300003515FV*	**3.000**	3.515	0.258	3.73
V0300003520FV	**3.000**	3.520	0.260	8.58
V0300003520NF*	**3.000**	3.520	0.260	5.87
V0300003520NM*	**3.000**	3.520	0.260	7.29
V0300003625BV*	**3.000**	3.625	0.312	6.34
V0300003625FF*	**3.000**	3.625	0.312	4.97
V0300003625FM*	**3.000**	3.625	0.312	4.97
V0300003625FV	**3.000**	3.625	0.312	5.13
V0300003625HV	**3.000**	3.625	0.312	5.10
V0300003625NF	**3.000**	3.625	0.312	12.73
V0300003625NM	**3.000**	3.625	0.312	5.10
V0300003750BV	**3.000**	3.750	0.375	14.86
V0300003750FF	**3.000**	3.750	0.375	9.24
V0300003750FM	**3.000**	3.750	0.375	6.78
V0300003750FV	**3.000**	3.750	0.375	9.30
V0300003750HV	**3.000**	3.750	0.375	8.07
V0300003750NF	**3.000**	3.750	0.375	8.74
V0300003750NM	**3.000**	3.750	0.375	8.65
V0300003750NV*	**3.000**	3.750	0.375	3.52
V0300003875FF*	**3.000**	3.875	0.437	10.54
V0300003875FM*	**3.000**	3.875	0.437	10.54
V0300003875FV*	**3.000**	3.875	0.437	10.54
V0300004000BV*	**3.000**	4.000	0.500	6.91
V0300004000FF*	**3.000**	4.000	0.500	9.50
V0300004000FM*	**3.000**	4.000	0.500	9.50
V0300004000FV	**3.000**	4.000	0.500	9.50
V0300004000HV	**3.000**	4.000	0.500	9.96
V0300004000NF	**3.000**	4.000	0.500	9.50
V0300004000NM	**3.000**	4.000	0.500	29.26
V0300004500FF*	**3.000**	4.500	0.750	15.19
V0300004500FM*	**3.000**	4.500	0.750	15.19
V0300004500FV*	**3.000**	4.500	0.750	15.19
V0302503775FV*	**3.025**	3.775	0.375	4.61
V0302503775NF*	**3.025**	3.775	0.375	4.61
V0302503775NM*	**3.025**	3.775	0.375	4.61
V0312503500FF*	**3.125**	3.500	0.187	2.16
V0312503500FM*	**3.125**	3.500	0.187	2.16
V0312503500FV	**3.125**	3.500	0.187	11.25
V0312503500HV	**3.125**	3.500	0.187	4.91
V0312503500NF	**3.125**	3.500	0.187	3.87
V0312503500NM	**3.125**	3.500	0.187	3.98
V0312503625FF*	**3.125**	3.625	0.250	4.16
V0312503625FM*	**3.125**	3.625	0.250	4.16
V0312503625FV*	**3.125**	3.625	0.250	4.16

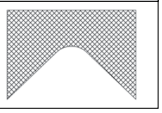
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

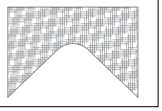
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0312503750BV*	**3.125**	3.750	0.312	8.33
V0312503750FF*	**3.125**	3.750	0.312	8.33
V0312503750FM*	**3.125**	3.750	0.312	8.33
V0312503750FV*	**3.125**	3.750	0.312	12.16
V0312503750HV*	**3.125**	3.750	0.312	5.06
V0312503750NM*	**3.125**	3.750	0.312	5.06
V0312503875BV*	**3.125**	3.875	0.375	5.08
V0312503875FF*	**3.125**	3.875	0.375	5.08
V0312503875FM*	**3.125**	3.875	0.375	5.10
V0312503875FV	**3.125**	3.875	0.375	8.91
V0312503875HV*	**3.125**	3.875	0.375	8.51
V0312503875NF	**3.125**	3.875	0.375	8.51
V0312503875NM	**3.125**	3.875	0.375	19.97
V0312504000FF*	**3.125**	4.000	0.437	7.05
V0312504000FV	**3.125**	4.000	0.437	9.65
V0312504000NF*	**3.125**	4.000	0.437	14.20
V0312504000NM*	**3.125**	4.000	0.437	13.32
V0312504125FF*	**3.125**	4.125	0.500	24.94
V0312504125FM*	**3.125**	4.125	0.500	24.94
V0312504125FV*	**3.125**	4.125	0.500	24.94
V0318703687FV	**3.187**	3.687	0.250	28.31
V0318703687NF	**3.187**	3.687	0.250	4.77
V0318703687NM	**3.187**	3.687	0.250	4.77
V0318703937FF*	**3.187**	3.937	0.375	9.94
V0318703937FM*	**3.187**	3.937	0.375	9.94
V0318703937FV*	**3.187**	3.937	0.375	9.94
V0318704020FF*	**3.187**	4.020	0.417	7.29
V0318704020FM*	**3.187**	4.020	0.417	7.29
V0318704020FV*	**3.187**	4.020	0.417	7.29
V0320003770FF*	**3.200**	3.770	0.285	5.73
V0320003770FM*	**3.200**	3.770	0.285	5.73
V0320003770FV	**3.200**	3.770	0.285	10.40
V0320003770NF*	**3.200**	3.770	0.285	10.40
V0320003770NM	**3.200**	3.770	0.285	10.40
V0325003625BV*	**3.250**	3.625	0.187	10.96
V0325003625FF*	**3.250**	3.625	0.187	3.03
V0325003625FM*	**3.250**	3.625	0.187	2.78
V0325003625FV*	**3.250**	3.625	0.187	4.05
V0325003625NF*	**3.250**	3.625	0.187	3.78
V0325003625NM*	**3.250**	3.625	0.187	3.78
V0325003750BV*	**3.250**	3.750	0.250	7.07
V0325003750FF*	**3.250**	3.750	0.250	7.07
V0325003750FM*	**3.250**	3.750	0.250	7.07
V0325003750FV	**3.250**	3.750	0.250	4.24
V0325003750HV*	**3.250**	3.750	0.250	5.09
V0325003750NF	**3.250**	3.750	0.250	3.62

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0325003750NM	**3.250**	3.750	0.250	3.78
V0325003750NV*	**3.250**	3.750	0.250	1.78
V0325003875FM*	**3.250**	3.875	0.312	5.86
V0325003875FV	**3.250**	3.875	0.312	8.88
V0325003875HV*	**3.250**	3.875	0.312	5.86
V0325003875NF	**3.250**	3.875	0.312	8.88
V0325003875NM	**3.250**	3.875	0.312	8.88
V0325004000BV*	**3.250**	4.000	0.375	14.68
V0325004000FF	**3.250**	4.000	0.375	8.72
V0325004000FM	**3.250**	4.000	0.375	8.72
V0325004000FV	**3.250**	4.000	0.375	7.82
V0325004000HV	**3.250**	4.000	0.375	8.57
V0325004000NF	**3.250**	4.000	0.375	5.82
V0325004000NM	**3.250**	4.000	0.375	13.59
V0325004020FF*	**3.250**	4.020	0.385	5.39
V0325004020FV	**3.250**	4.020	0.385	12.14
V0325004020NF*	**3.250**	4.020	0.385	10.24
V0325004020NM*	**3.250**	4.020	0.385	10.23
V0325004250FF*	**3.250**	4.250	0.500	7.35
V0325004250FM*	**3.250**	4.250	0.500	7.35
V0325004250FV	**3.250**	4.250	0.500	10.06
V0325004250HV*	**3.250**	4.250	0.500	10.73
V0325004250NF	**3.250**	4.250	0.500	10.73
V0325004250NM	**3.250**	4.250	0.500	8.33
V0325004500FF*	**3.250**	4.500	0.625	24.44
V0325004500FM*	**3.250**	4.500	0.625	24.44
V0325004500FV*	**3.250**	4.500	0.625	30.05
V0327504025FV*	**3.275**	4.025	0.375	6.28
V0327504025HV*	**3.275**	4.025	0.375	11.44
V0327504025NF*	**3.275**	4.025	0.375	11.44
V0327504025NM*	**3.275**	4.025	0.375	6.28
V0337503875FM*	**3.375**	3.875	0.250	2.53
V0337503875FV	**3.375**	3.875	0.250	5.26
V0337503875HV*	**3.375**	3.875	0.250	5.26
V0337503875NF	**3.375**	3.875	0.250	5.26
V0337503875NM	**3.375**	3.875	0.250	5.26
V0337504000BV*	**3.375**	4.000	0.312	7.16
V0337504000FF	**3.375**	4.000	0.312	5.36
V0337504000FM	**3.375**	4.000	0.312	5.36
V0337504000FV	**3.375**	4.000	0.312	5.46
V0337504000HV*	**3.375**	4.000	0.312	3.96
V0337504000NF*	**3.375**	4.000	0.312	7.13
V0337504125BV*	**3.375**	4.125	0.375	9.20
V0337504125FV*	**3.375**	4.125	0.375	9.20
V0337504125HV*	**3.375**	4.125	0.375	8.57
V0337504125NF*	**3.375**	4.125	0.375	15.89

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



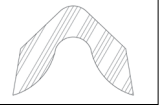
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



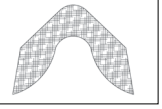
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



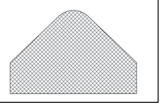
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



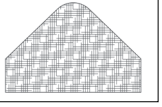
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

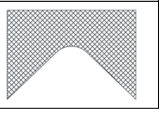


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

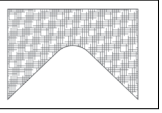


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



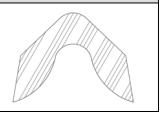
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



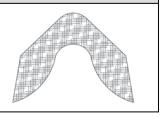
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



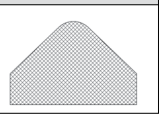
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



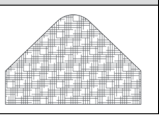
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0337504125NM	**3.375**	4.125	0.375	15.89
V0337504375BV*	**3.375**	4.375	0.500	10.43
V0337504375FF*	**3.375**	4.375	0.500	55.25
V0337504375FM*	**3.375**	4.375	0.500	55.25
V0337504375FV*	**3.375**	4.375	0.500	55.25
V0337504375HV*	**3.375**	4.375	0.500	10.43
V0337504375NF*	**3.375**	4.375	0.500	10.43
V0337504375NM*	**3.375**	4.375	0.500	10.43
V0343703937FV*	**3.437**	3.937	0.250	6.91
V0345004000FV*	**3.450**	4.000	0.275	5.47
V0345004000HV*	**3.450**	4.000	0.275	5.47
V0345004000NF*	**3.450**	4.000	0.275	16.97
V0345004000NM*	**3.450**	4.000	0.275	5.47
V0345004250FV*	**3.450**	4.250	0.400	17.67
V0345004250HV*	**3.450**	4.250	0.400	9.20
V0345004250NF*	**3.450**	4.250	0.400	9.20
V0345004250NM*	**3.450**	4.250	0.400	9.20
V0347504015FV*	**3.475**	4.015	0.270	6.06
V0348504015FV*	**3.485**	4.015	0.265	6.06
V0348504015HV*	**3.485**	4.015	0.265	6.06
V0350004000BV*	**3.500**	4.000	0.250	8.34
V0350004000FF	**3.500**	4.000	0.250	4.04
V0350004000FM	**3.500**	4.000	0.250	4.70
V0350004000FV	**3.500**	4.000	0.250	4.72
V0350004000HV	**3.500**	4.000	0.250	7.58
V0350004000NF	**3.500**	4.000	0.250	4.24
V0350004000NM	**3.500**	4.000	0.250	4.58
V0350004000NV*	**3.500**	4.000	0.250	16.46
V0350004125FF*	**3.500**	4.125	0.312	16.20
V0350004125FM*	**3.500**	4.125	0.312	14.25
V0350004125FV	**3.500**	4.125	0.312	6.43
V0350004125NF*	**3.500**	4.125	0.312	16.19
V0350004125NM*	**3.500**	4.125	0.312	12.11
V0350004250BV*	**3.500**	4.250	0.375	7.63
V0350004250FF*	**3.500**	4.250	0.375	8.74
V0350004250FM*	**3.500**	4.250	0.375	7.74
V0350004250FV	**3.500**	4.250	0.375	8.15
V0350004250HV	**3.500**	4.250	0.375	7.32
V0350004250NF	**3.500**	4.250	0.375	7.32
V0350004250NM	**3.500**	4.250	0.375	7.32
V0350004250NV*	**3.500**	4.250	0.375	4.09
V0350004250VV*	**3.500**	4.250	0.375	23.11
V0350004500BV*	**3.500**	4.500	0.500	28.70
V0350004500FF*	**3.500**	4.500	0.500	13.12
V0350004500FM*	**3.500**	4.500	0.500	13.01
V0350004500FV	**3.500**	4.500	0.500	12.52

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0350004500HV*	**3.500**	4.500	0.500	22.36
V0350004500NF	**3.500**	4.500	0.500	14.30
V0350004500NM	**3.500**	4.500	0.500	22.36
V0350005000FV*	**3.500**	5.000	0.750	23.85
V0350005000NF*	**3.500**	5.000	0.750	24.08
V0350005000NM*	**3.500**	5.000	0.750	24.45
V0358004110FV*	**3.580**	4.110	0.265	5.49
V0358004110HV*	**3.580**	4.110	0.265	5.21
V0358004110NF*	**3.580**	4.110	0.265	5.21
V0358004110NM*	**3.580**	4.110	0.265	5.21
V0362504125FF*	**3.625**	4.125	0.250	5.62
V0362504125FM*	**3.625**	4.125	0.250	5.62
V0362504125FV	**3.625**	4.125	0.250	6.44
V0362504500FF*	**3.625**	4.500	0.437	9.32
V0362504500FM*	**3.625**	4.500	0.437	9.32
V0362504500FV*	**3.625**	4.500	0.437	9.32
V0362504625FF*	**3.625**	4.625	0.500	10.65
V0362504625FM*	**3.625**	4.625	0.500	10.65
V0362504625FV*	**3.625**	4.625	0.500	10.65
V0362504625HV*	**3.625**	4.625	0.500	10.65
V0368704250FF*	**3.687**	4.250	0.281	4.77
V0368704250FM	**3.687**	4.250	0.281	4.77
V0368704250FV	**3.687**	4.250	0.281	4.77
V0370004270FV	**3.700**	4.270	0.285	14.11
V0370004270HV*	**3.700**	4.270	0.285	8.50
V0370004270NF	**3.700**	4.270	0.285	14.11
V0370004270NM	**3.700**	4.270	0.285	8.82
V0375004250FF*	**3.750**	4.250	0.250	3.01
V0375004250FM*	**3.750**	4.250	0.250	5.21
V0375004250FV	**3.750**	4.250	0.250	4.86
V0375004250HV	**3.750**	4.250	0.250	6.72
V0375004250NF	**3.750**	4.250	0.250	4.24
V0375004250NM	**3.750**	4.250	0.250	4.24
V0375004250NV*	**3.750**	4.250	0.250	2.25
V0375004375BV*	**3.750**	4.375	0.312	4.20
V0375004375FF*	**3.750**	4.375	0.312	10.01
V0375004375FM*	**3.750**	4.375	0.312	10.16
V0375004375FV	**3.750**	4.375	0.312	12.01
V0375004375HV	**3.750**	4.375	0.312	7.72
V0375004375NF	**3.750**	4.375	0.312	12.01
V0375004375NM	**3.750**	4.375	0.312	12.01
V0375004500BV	**3.750**	4.500	0.375	12.25
V0375004500FF*	**3.750**	4.500	0.375	8.99
V0375004500FM*	**3.750**	4.500	0.375	9.65
V0375004500FV	**3.750**	4.500	0.375	9.10
V0375004500HV	**3.750**	4.500	0.375	9.99

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

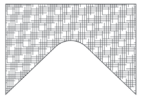
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0375004500NF	**3.750**	4.500	0.375	10.22
V0375004500NM	**3.750**	4.500	0.375	8.65
V0375004500NV*	**3.750**	4.500	0.375	4.32
V0375004520FV*	**3.750**	4.520	0.385	10.18
V0375004520HV*	**3.750**	4.520	0.385	10.18
V0375004520NF*	**3.750**	4.520	0.385	10.72
V0375004520NM*	**3.750**	4.520	0.385	10.82
V0375004750FF*	**3.750**	4.750	0.500	28.35
V0375004750FM*	**3.750**	4.750	0.500	12.73
V0375004750FV*	**3.750**	4.750	0.500	12.73
V0375004750HV*	**3.750**	4.750	0.500	10.74
V0375005250FF*	**3.750**	5.250	0.750	21.73
V0375005250FM*	**3.750**	5.250	0.750	21.73
V0375005250FV*	**3.750**	5.250	0.750	21.73
V0377504525FV	**3.775**	4.525	0.375	18.07
V0377504525NF	**3.775**	4.525	0.375	10.43
V0377504525NM	**3.775**	4.525	0.375	10.43
V0387504375FF*	**3.875**	4.375	0.250	3.96
V0387504375FM*	**3.875**	4.375	0.250	3.96
V0387504375FV*	**3.875**	4.375	0.250	6.01
V0387504375NF*	**3.875**	4.375	0.250	6.01
V0387504375NM*	**3.875**	4.375	0.250	6.01
V0387504500FF*	**3.875**	4.500	0.312	5.89
V0387504500FM*	**3.875**	4.500	0.312	5.89
V0387504500FV*	**3.875**	4.500	0.312	8.96
V0387504500NF*	**3.875**	4.500	0.312	8.88
V0387504500NM*	**3.875**	4.500	0.312	8.82
V0387504500NV*	**3.875**	4.500	0.312	5.29
V0393704750NM*	**3.937**	4.750	0.407	9.26
V0395004500BV*	**3.950**	4.500	0.275	5.85
V0395004500FF*	**3.950**	4.500	0.275	5.85
V0395004500FM*	**3.950**	4.500	0.275	5.85
V0395004500FV	**3.950**	4.500	0.275	6.24
V0395004500HV*	**3.950**	4.500	0.275	6.24
V0395004500NF	**3.950**	4.500	0.275	12.54
V0395004500NM	**3.950**	4.500	0.275	6.24
V0395004500NV*	**3.950**	4.500	0.275	4.13
V0395004750FF*	**3.950**	4.750	0.400	9.48
V0395004750FM*	**3.950**	4.750	0.400	9.48
V0395004750FV*	**3.950**	4.750	0.400	29.01
V0397004520FF*	**3.970**	4.520	0.275	5.21
V0397004520FM*	**3.970**	4.520	0.275	5.21
V0397004520FV*	**3.970**	4.520	0.275	6.28
V0397004520HV*	**3.970**	4.520	0.275	6.28
V0397004520NF*	**3.970**	4.520	0.275	6.28
V0397004520NM*	**3.970**	4.520	0.275	6.28

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0397004520NV*	**3.970**	4.520	0.275	3.67
V0400004500BV*	**4.000**	4.500	0.250	21.01
V0400004500FF	**4.000**	4.500	0.250	6.79
V0400004500FM	**4.000**	4.500	0.250	8.67
V0400004500FV	**4.000**	4.500	0.250	5.68
V0400004500HF*	**4.000**	4.500	0.250	2.23
V0400004500HV	**4.000**	4.500	0.250	5.68
V0400004500NF	**4.000**	4.500	0.250	5.68
V0400004500NM	**4.000**	4.500	0.250	5.68
V0400004500NV*	**4.000**	4.500	0.250	2.21
V0400004525FF*	**4.000**	4.525	0.263	6.82
V0400004525FM*	**4.000**	4.525	0.263	6.82
V0400004525FV*	**4.000**	4.525	0.263	6.82
V0400004530FV*	**4.000**	4.530	0.265	7.27
V0400004562FF*	**4.000**	4.562	0.281	7.15
V0400004562FM*	**4.000**	4.562	0.281	7.15
V0400004562FV*	**4.000**	4.562	0.281	7.15
V0400004625FM*	**4.000**	4.625	0.312	5.94
V0400004625FV*	**4.000**	4.625	0.312	12.16
V0400004625NF*	**4.000**	4.625	0.312	9.10
V0400004625NM*	**4.000**	4.625	0.312	9.10
V0400004750FF*	**4.000**	4.750	0.375	11.01
V0400004750FM*	**4.000**	4.750	0.375	6.62
V0400004750FV	**4.000**	4.750	0.375	9.92
V0400004750HV	**4.000**	4.750	0.375	7.25
V0400004750NF	**4.000**	4.750	0.375	7.24
V0400004750NM	**4.000**	4.750	0.375	7.24
V0400004875FV	**4.000**	4.875	0.437	28.00
V0400004875HV	**4.000**	4.875	0.437	10.84
V0400004875NF	**4.000**	4.875	0.437	26.26
V0400004875NM	**4.000**	4.875	0.437	26.26
V0400005000FF*	**4.000**	5.000	0.500	13.55
V0400005000FM*	**4.000**	5.000	0.500	13.55
V0400005000FV	**4.000**	5.000	0.500	13.55
V0400005000HV	**4.000**	5.000	0.500	13.55
V0400005000NF	**4.000**	5.000	0.500	13.55
V0400005000NM	**4.000**	5.000	0.500	13.55
V0400005125FV*	**4.000**	5.125	0.563	18.65
V0400005125NF*	**4.000**	5.125	0.563	18.65
V0400005125NM*	**4.000**	5.125	0.563	18.65
V0400005250FF*	**4.000**	5.250	0.625	31.24
V0400005250FM*	**4.000**	5.250	0.625	31.24
V0400005250FV*	**4.000**	5.250	0.625	31.24
V0400005500FF*	**4.000**	5.500	0.750	39.44
V0400005500FM*	**4.000**	5.500	0.750	39.44
V0400005500FV*	**4.000**	5.500	0.750	39.44

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



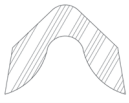
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



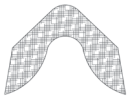
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



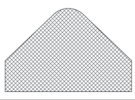
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



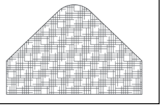
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

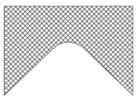


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

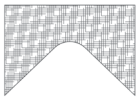


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



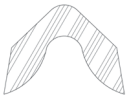
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



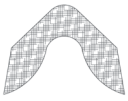
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



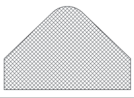
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



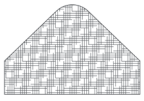
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0402505025FV*	**4.025**	5.025	0.500	10.09
V0402505025NF*	**4.025**	5.025	0.500	10.09
V0402505025NM*	**4.025**	5.025	0.500	10.09
V0405404570FV*	**4.054**	4.570	0.258	5.93
V0406204812FF	**4.062**	4.812	0.375	11.39
V0406204812FM	**4.062**	4.812	0.375	11.39
V0406204812FV	**4.062**	4.812	0.375	11.39
V0412504625FV	**4.125**	4.625	0.250	7.43
V0412504625NF	**4.125**	4.625	0.250	4.81
V0412504625NM	**4.125**	4.625	0.250	4.81
V0412504875FF*	**4.125**	4.875	0.375	8.13
V0412504875FM*	**4.125**	4.875	0.375	8.13
V0412504875FV*	**4.125**	4.875	0.375	9.52
V0412505000FF	**4.125**	5.000	0.437	28.31
V0412505000FM	**4.125**	5.000	0.437	28.31
V0412505000FV	**4.125**	5.000	0.437	28.31
V0412505000HV*	**4.125**	5.000	0.437	9.70
V0412505025FV*	**4.125**	5.025	0.450	14.41
V0412505125FF*	**4.125**	5.125	0.500	10.97
V0412505125FM*	**4.125**	5.125	0.500	10.97
V0412505125FV*	**4.125**	5.125	0.500	10.97
V0412505250FF*	**4.125**	5.250	0.563	12.56
V0412505250FM*	**4.125**	5.250	0.563	12.56
V0412505250FV*	**4.125**	5.250	0.563	12.56
V0420004750FV*	**4.200**	4.750	0.275	12.46
V0420004750NF*	**4.200**	4.750	0.275	12.46
V0420004750NM*	**4.200**	4.750	0.275	12.46
V0423004781FF*	**4.230**	4.781	0.276	5.78
V0423004781FM*	**4.230**	4.781	0.276	5.78
V0423004781FV*	**4.230**	4.781	0.276	5.78
V0425004750BV	**4.250**	4.750	0.250	3.99
V0425004750FF*	**4.250**	4.750	0.250	4.58
V0425004750FM	**4.250**	4.750	0.250	4.58
V0425004750FV	**4.250**	4.750	0.250	7.45
V0425004750HV*	**4.250**	4.750	0.250	7.54
V0425004750NF	**4.250**	4.750	0.250	4.62
V0425004750NM	**4.250**	4.750	0.250	6.24
V0425004875FM*	**4.250**	4.875	0.312	7.72
V0425004875FV*	**4.250**	4.875	0.312	7.72
V0425004875NF*	**4.250**	4.875	0.312	9.22
V0425004875NM*	**4.250**	4.875	0.312	7.12
V0425005000BV*	**4.250**	5.000	0.375	9.44
V0425005000FF	**4.250**	5.000	0.375	11.19
V0425005000FM	**4.250**	5.000	0.375	11.19
V0425005000FV	**4.250**	5.000	0.375	9.79
V0425005000HV	**4.250**	5.000	0.375	9.79

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0425005000NF	**4.250**	5.000	0.375	17.49
V0425005000NM	**4.250**	5.000	0.375	9.79
V0425005000NV*	**4.250**	5.000	0.375	4.98
V0425005030FV*	**4.250**	5.030	0.390	12.30
V0425005030NF*	**4.250**	5.030	0.390	3.92
V0425005030NM*	**4.250**	5.030	0.390	3.92
V0425005125FF*	**4.250**	5.125	0.437	12.36
V0425005125FM*	**4.250**	5.125	0.437	12.36
V0425005125FV	**4.250**	5.125	0.437	13.56
V0425005125HV*	**4.250**	5.125	0.437	14.28
V0425005125NF	**4.250**	5.125	0.437	23.24
V0425005125NM	**4.250**	5.125	0.437	23.55
V0425005250FF	**4.250**	5.250	0.500	29.60
V0425005250FM	**4.250**	5.250	0.500	24.99
V0425005250FV	**4.250**	5.250	0.500	22.60
V0427505025FV*	**4.275**	5.025	0.375	9.70
V0427505025NF*	**4.275**	5.025	0.375	9.70
V0427505025NM*	**4.275**	5.025	0.375	9.70
V0437504875FF*	**4.375**	4.875	0.250	8.40
V0437504875FM*	**4.375**	4.875	0.250	8.40
V0437504875FV	**4.375**	4.875	0.250	8.40
V0437504875NM*	**4.375**	4.875	0.250	4.95
V0437505000FF	**4.375**	5.000	0.312	7.04
V0437505000FM	**4.375**	5.000	0.312	7.04
V0437505000FV	**4.375**	5.000	0.312	7.46
V0437505000HV*	**4.375**	5.000	0.312	8.10
V0437505375FF*	**4.375**	5.375	0.500	13.86
V0437505375FM*	**4.375**	5.375	0.500	13.86
V0437505375FV*	**4.375**	5.375	0.500	13.86
V0437505375NM*	**4.375**	5.375	0.500	13.86
V0443704937FF	**4.437**	4.937	0.250	14.78
V0443704937FM	**4.437**	4.937	0.250	12.92
V0443704937FV	**4.437**	4.937	0.250	8.68
V0443705000FF*	**4.437**	5.000	0.281	7.04
V0443705000FM*	**4.437**	5.000	0.281	7.62
V0443705000FV*	**4.437**	5.000	0.281	8.29
V0443705000NF*	**4.437**	5.000	0.282	6.88
V0445005000FV*	**4.450**	5.000	0.275	6.47
V0445005000HV*	**4.450**	5.000	0.275	6.06
V0445005000NF*	**4.450**	5.000	0.275	6.47
V0445005000NM*	**4.450**	5.000	0.275	6.47
V0447505015FV*	**4.475**	5.015	0.270	8.20
V0447505025FV*	**4.475**	5.025	0.275	6.31
V0447505025HV*	**4.475**	5.025	0.275	6.31
V0448005031FF*	**4.480**	5.031	0.276	6.46
V0448005031FM*	**4.480**	5.031	0.276	6.46

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

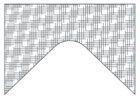
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0448005031FV*	**4.480**	5.031	0.276	6.46
V0450005000BV*	**4.500**	5.000	0.250	3.37
V0450005000FF*	**4.500**	5.000	0.250	3.37
V0450005000FM*	**4.500**	5.000	0.250	4.63
V0450005000FV	**4.500**	5.000	0.250	6.05
V0450005000HV	**4.500**	5.000	0.250	9.06
V0450005000NF	**4.500**	5.000	0.250	6.07
V0450005000NM	**4.500**	5.000	0.250	6.13
V0450005000NV*	**4.500**	5.000	0.250	2.38
V0450005125BV*	**4.500**	5.125	0.312	6.63
V0450005125FF*	**4.500**	5.125	0.312	6.63
V0450005125FM*	**4.500**	5.125	0.312	6.63
V0450005125FV	**4.500**	5.125	0.312	9.90
V0450005125HV*	**4.500**	5.125	0.312	6.63
V0450005125NF*	**4.500**	5.125	0.312	9.65
V0450005125NM*	**4.500**	5.125	0.312	14.60
V0450005250BV*	**4.500**	5.250	0.375	16.03
V0450005250FF*	**4.500**	5.250	0.375	7.45
V0450005250FM*	**4.500**	5.250	0.375	9.77
V0450005250FV	**4.500**	5.250	0.375	15.00
V0450005250HV*	**4.500**	5.250	0.375	9.52
V0450005250NF	**4.500**	5.250	0.375	9.52
V0450005250NM	**4.500**	5.250	0.375	9.52
V0450005250NV*	**4.500**	5.250	0.375	5.26
V0450005375BV*	**4.500**	5.375	0.437	9.08
V0450005375FF*	**4.500**	5.375	0.437	9.08
V0450005375FM*	**4.500**	5.375	0.437	9.08
V0450005375FV	**4.500**	5.375	0.437	14.12
V0450005375HV	**4.500**	5.375	0.437	15.44
V0450005375NF	**4.500**	5.375	0.437	18.73
V0450005375NM	**4.500**	5.375	0.437	14.12
V0450005500BV*	**4.500**	5.500	0.500	15.97
V0450005500FF*	**4.500**	5.500	0.500	15.97
V0450005500FM*	**4.500**	5.500	0.500	15.98
V0450005500FV	**4.500**	5.500	0.500	15.98
V0450005500HV	**4.500**	5.500	0.500	15.98
V0450005500NF	**4.500**	5.500	0.500	15.98
V0450005500NM*	**4.500**	5.500	0.500	29.08
V0458005080FF*	**4.580**	5.080	0.250	5.54
V0458005080FM*	**4.580**	5.080	0.250	5.54
V0458005080FV*	**4.580**	5.080	0.250	6.88
V0458005080HV*	**4.580**	5.080	0.250	5.54
V0458005080NF*	**4.580**	5.080	0.250	6.88
V0458005080NM*	**4.580**	5.080	0.250	6.88
V0462505250FV*	**4.625**	5.250	0.312	15.60
V0462505375BV*	**4.625**	5.375	0.375	8.47

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0462505375FF*	**4.625**	5.375	0.375	10.29
V0462505375FM*	**4.625**	5.375	0.375	10.29
V0462505375FV*	**4.625**	5.375	0.375	16.49
V0462505375HV*	**4.625**	5.375	0.375	8.47
V0462505625FF*	**4.625**	5.625	0.500	11.25
V0462505625FM*	**4.625**	5.625	0.500	11.25
V0462505625FV*	**4.625**	5.625	0.500	11.25
V0462505625HV*	**4.625**	5.625	0.500	11.25
V0470005250FV*	**4.700**	5.250	0.275	10.66
V0470005250NF*	**4.700**	5.250	0.275	16.02
V0470005250NM*	**4.700**	5.250	0.275	10.59
V0470005290FV	**4.700**	5.290	0.295	6.37
V0470005290HV*	**4.700**	5.290	0.295	6.37
V0470005290NF*	**4.700**	5.290	0.295	17.35
V0470005290NM*	**4.700**	5.290	0.295	6.37
V0474505380FV*	**4.745**	5.380	0.318	9.16
V0475005250FV	**4.750**	5.250	0.250	7.68
V0475005250HV	**4.750**	5.250	0.250	7.68
V0475005250NF	**4.750**	5.250	0.250	7.68
V0475005250NM	**4.750**	5.250	0.250	7.68
V0475005375FF*	**4.750**	5.375	0.312	4.75
V0475005375FM*	**4.750**	5.375	0.312	4.75
V0475005375FV	**4.750**	5.375	0.312	8.48
V0475005375HV	**4.750**	5.375	0.312	6.52
V0475005375NF	**4.750**	5.375	0.312	6.52
V0475005375NM	**4.750**	5.375	0.312	6.52
V0475005500FF*	**4.750**	5.500	0.375	21.60
V0475005500FM*	**4.750**	5.500	0.375	21.60
V0475005500FV	**4.750**	5.500	0.375	10.39
V0475005500HV	**4.750**	5.500	0.375	9.91
V0475005500NF	**4.750**	5.500	0.375	9.91
V0475005500NM	**4.750**	5.500	0.375	9.91
V0475005500NV*	**4.750**	5.500	0.375	6.92
V0475005625FF*	**4.750**	5.625	0.437	9.44
V0475005625FM*	**4.750**	5.625	0.437	9.44
V0475005625FV*	**4.750**	5.625	0.437	14.25
V0475005625NF*	**4.750**	5.625	0.437	14.25
V0475005625NM*	**4.750**	5.625	0.437	14.25
V0475005750FF	**4.750**	5.750	0.500	10.91
V0475005750FM	**4.750**	5.750	0.500	12.35
V0475005750FV	**4.750**	5.750	0.500	13.39
V0475006000FF*	**4.750**	6.000	0.625	19.18
V0475006000FM*	**4.750**	6.000	0.625	39.37
V0475006000FV*	**4.750**	6.000	0.625	19.18
V0477505525FV*	**4.775**	5.525	0.375	9.65
V0477505525NM*	**4.775**	5.525	0.375	9.65

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



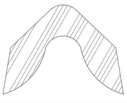
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



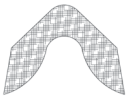
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



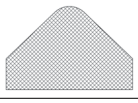
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



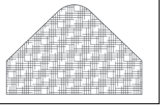
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

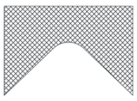


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

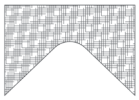


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NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



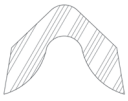
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



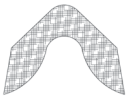
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



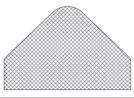
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



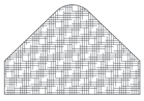
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0487505500FF*	**4.875**	5.500	0.312	8.40
V0487505500FM*	**4.875**	5.500	0.312	8.40
V0487505500FV*	**4.875**	5.500	0.312	9.49
V0487505500HV*	**4.875**	5.500	0.312	7.78
V0493705937FF*	**4.937**	5.937	0.500	14.28
V0493705937FM*	**4.937**	5.937	0.500	14.28
V0493705937FV*	**4.937**	5.937	0.500	14.28
V0493706062FF*	**4.937**	6.062	0.563	16.56
V0493706062FM*	**4.937**	6.062	0.563	16.56
V0493706062FV*	**4.937**	6.062	0.563	16.56
V0495005500FF*	**4.950**	5.500	0.275	6.95
V0495005500FM*	**4.950**	5.500	0.275	6.95
V0495005500FV	**4.950**	5.500	0.275	8.31
V0495005500HV*	**4.950**	5.500	0.275	8.87
V0495005500NF*	**4.950**	5.500	0.275	8.31
V0495005500NM*	**4.950**	5.500	0.275	8.31
V0497005520BV*	**4.970**	5.520	0.275	7.88
V0497005520FF*	**4.970**	5.520	0.275	7.88
V0497005520FM*	**4.970**	5.520	0.275	7.88
V0497005520FV*	**4.970**	5.520	0.275	9.82
V0497005520HV*	**4.970**	5.520	0.275	7.07
V0497005520NF*	**4.970**	5.520	0.275	8.66
V0497005520NM*	**4.970**	5.520	0.275	7.07
V0500005375FF*	**5.000**	5.375	0.187	9.61
V0500005375FM*	**5.000**	5.375	0.187	9.61
V0500005375FV*	**5.000**	5.375	0.187	9.61
V0500005375HV*	**5.000**	5.375	0.187	6.31
V0500005375NF*	**5.000**	5.375	0.187	6.31
V0500005375NM*	**5.000**	5.375	0.187	6.31
V0500005500FF	**5.000**	5.500	0.250	4.73
V0500005500FM*	**5.000**	5.500	0.250	5.39
V0500005500FV	**5.000**	5.500	0.250	6.63
V0500005500HF*	**5.000**	5.500	0.250	2.40
V0500005500HV	**5.000**	5.500	0.250	5.76
V0500005500NF	**5.000**	5.500	0.250	5.77
V0500005500NM	**5.000**	5.500	0.250	5.75
V0500005500NV*	**5.000**	5.500	0.250	2.49
V0500005530BV*	**5.000**	5.530	0.265	5.81
V0500005530FV*	**5.000**	5.530	0.265	5.81
V0500005530HV*	**5.000**	5.530	0.265	5.81
V0500005562FF*	**5.000**	5.562	0.281	6.66
V0500005562FM*	**5.000**	5.562	0.281	6.66
V0500005562FV*	**5.000**	5.562	0.281	6.66
V0500005625FF*	**5.000**	5.625	0.312	8.53
V0500005625FM*	**5.000**	5.625	0.312	8.53
V0500005625FV*	**5.000**	5.625	0.312	9.91

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0500005625NF	**5.000**	5.625	0.312	8.53
V0500005625NM	**5.000**	5.625	0.312	9.39
V0500005750BV*	**5.000**	5.750	0.375	8.51
V0500005750FF*	**5.000**	5.750	0.375	12.16
V0500005750FV*	**5.000**	5.750	0.375	12.16
V0500005750HV*	**5.000**	5.750	0.375	22.50
V0500005750NF*	**5.000**	5.750	0.375	20.95
V0500005750NM*	**5.000**	5.750	0.375	12.16
V0500005875FF*	**5.000**	5.875	0.437	10.12
V0500005875FM	**5.000**	5.875	0.437	14.83
V0500005875FV	**5.000**	5.875	0.437	14.83
V0500005875NF	**5.000**	5.875	0.437	11.01
V0500005875NM	**5.000**	5.875	0.437	10.12
V0500006000FF*	**5.000**	6.000	0.500	10.60
V0500006000FM*	**5.000**	6.000	0.500	10.60
V0500006000FV	**5.000**	6.000	0.500	17.68
V0500006000HV	**5.000**	6.000	0.500	14.55
V0500006000NF	**5.000**	6.000	0.500	12.28
V0500006000NM	**5.000**	6.000	0.500	12.28
V0500006000NV*	**5.000**	6.000	0.500	8.37
V0500006040FF*	**5.000**	6.040	0.520	27.26
V0500006040FM*	**5.000**	6.040	0.520	27.26
V0500006040FV*	**5.000**	6.040	0.520	27.26
V0500006040NM*	**5.000**	6.040	0.520	12.98
V0500006250FF	**5.000**	6.250	0.625	61.78
V0500006250FM	**5.000**	6.250	0.625	61.78
V0500006250FV	**5.000**	6.250	0.625	57.51
V0500006500FF*	**5.000**	6.500	0.750	21.95
V0500006500FM*	**5.000**	6.500	0.750	47.19
V0500006500FV*	**5.000**	6.500	0.750	24.19
V0500006500HV*	**5.000**	6.500	0.750	21.95
V0500007000FF*	**5.000**	7.000	1.000	34.99
V0500007000FV*	**5.000**	7.000	1.000	34.99
V0506205562FV	**5.062**	5.562	0.250	10.60
V0506205562NF	**5.062**	5.562	0.250	11.19
V0506205562NM	**5.062**	5.562	0.250	11.15
V0512505625FF*	**5.125**	5.625	0.250	3.55
V0512505625FM*	**5.125**	5.625	0.250	3.94
V0512505625FV*	**5.125**	5.625	0.250	7.36
V0512505625HV*	**5.125**	5.625	0.250	7.36
V0512505625NF*	**5.125**	5.625	0.250	7.36
V0512505625NM*	**5.125**	5.625	0.250	7.36
V0512506000FF*	**5.125**	6.000	0.437	14.76
V0512506000FM*	**5.125**	6.000	0.437	14.76
V0512506000FV*	**5.125**	6.000	0.437	14.76
V0512506000HV*	**5.125**	6.000	0.437	10.24

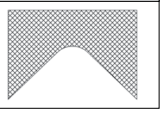
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

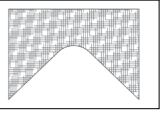
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0518705750FF*	**5.187**	5.750	0.281	11.79
V0518705750FM*	**5.187**	5.750	0.281	11.79
V0518705750FV*	**5.187**	5.750	0.281	11.79
V0518705750NF*	**5.187**	5.750	0.282	11.07
V0525005750FF*	**5.250**	5.750	0.250	4.39
V0525005750FM*	**5.250**	5.750	0.250	4.39
V0525005750FV	**5.250**	5.750	0.250	5.81
V0525005750HV*	**5.250**	5.750	0.250	5.81
V0525005750NF	**5.250**	5.750	0.250	5.81
V0525005750NM	**5.250**	5.750	0.250	5.81
V0525006000FF*	**5.250**	6.000	0.375	13.27
V0525006000FM*	**5.250**	6.000	0.375	13.27
V0525006000FV	**5.250**	6.000	0.375	13.11
V0525006000HV	**5.250**	6.000	0.375	15.98
V0525006000NF	**5.250**	6.000	0.375	13.11
V0525006000NM	**5.250**	6.000	0.375	17.54
V0525006000NV*	**5.250**	6.000	0.375	6.26
V0525006250BV*	**5.250**	6.250	0.500	31.01
V0525006250FF*	**5.250**	6.250	0.500	11.18
V0525006250FM*	**5.250**	6.250	0.500	11.18
V0525006250FV	**5.250**	6.250	0.500	30.38
V0525006250HV*	**5.250**	6.250	0.500	11.18
V0525006250NF*	**5.250**	6.250	0.500	17.44
V0525006250NM	**5.250**	6.250	0.500	15.88
V0525006750FF*	**5.250**	6.750	0.750	22.81
V0525006750FM*	**5.250**	6.750	0.750	22.81
V0525006750FV*	**5.250**	6.750	0.750	22.81
V0528206010FF*	**5.282**	6.010	0.364	11.84
V0528206010FM*	**5.282**	6.010	0.364	11.84
V0528206010FV*	**5.282**	6.010	0.364	11.84
V0530006175FF*	**5.300**	6.175	0.437	14.25
V0530006175FM*	**5.300**	6.175	0.437	14.25
V0530006175FV*	**5.300**	6.175	0.437	14.25
V0531206312FF*	**5.312**	6.312	0.500	13.59
V0531206312FM*	**5.312**	6.312	0.500	13.59
V0531206312FV*	**5.312**	6.312	0.500	13.59
V0537506000FF*	**5.375**	6.000	0.312	23.30
V0537506000FM*	**5.375**	6.000	0.312	23.30
V0537506000FV*	**5.375**	6.000	0.312	23.30
V0537506250FV	**5.375**	6.250	0.437	25.25
V0537506250NF	**5.375**	6.250	0.437	18.65
V0537506250NM	**5.375**	6.250	0.437	18.65
V0537506375FF*	**5.375**	6.375	0.500	12.52
V0537506375FM*	**5.375**	6.375	0.500	12.52
V0537506375FV*	**5.375**	6.375	0.500	24.83
V0544505945FV*	**5.445**	5.945	0.250	6.28

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0544505945HV*	**5.445**	5.945	0.250	8.53
V0544505945NF	**5.445**	5.945	0.250	6.28
V0544505945NM	**5.445**	5.945	0.250	6.28
V0545006000FV*	**5.450**	6.000	0.275	10.79
V0547506020FV*	**5.475**	6.020	0.273	6.51
V0547506025FV*	**5.475**	6.025	0.275	6.62
V0547506025HV*	**5.475**	6.025	0.275	6.62
V0547506025NF*	**5.475**	6.025	0.275	6.62
V0547506025NM*	**5.475**	6.025	0.275	6.62
V0550006000FF*	**5.500**	6.000	0.250	8.06
V0550006000FM*	**5.500**	6.000	0.250	8.06
V0550006000FV	**5.500**	6.000	0.250	7.87
V0550006000HV	**5.500**	6.000	0.250	6.08
V0550006000NF	**5.500**	6.000	0.250	6.08
V0550006000NM	**5.500**	6.000	0.250	6.08
V0550006125BV*	**5.500**	6.125	0.312	19.89
V0550006125FF	**5.500**	6.125	0.312	12.47
V0550006125FM	**5.500**	6.125	0.312	12.47
V0550006125FV*	**5.500**	6.125	0.312	15.68
V0550006125HV*	**5.500**	6.125	0.312	8.88
V0550006250FF*	**5.500**	6.250	0.375	9.44
V0550006250FM*	**5.500**	6.250	0.375	9.44
V0550006250FV	**5.500**	6.250	0.375	12.73
V0550006250HV	**5.500**	6.250	0.375	12.93
V0550006250NF	**5.500**	6.250	0.375	18.64
V0550006250NM	**5.500**	6.250	0.375	15.24
V0550006250NV*	**5.500**	6.250	0.375	6.64
V0550006375FF*	**5.500**	6.375	0.437	18.16
V0550006375FM*	**5.500**	6.375	0.437	31.51
V0550006375FV	**5.500**	6.375	0.437	22.02
V0550006500BV*	**5.500**	6.500	0.500	18.03
V0550006500FF	**5.500**	6.500	0.500	16.83
V0550006500FM	**5.500**	6.500	0.500	16.83
V0550006500FV	**5.500**	6.500	0.500	15.41
V0550006500HV	**5.500**	6.500	0.500	26.40
V0550006500NF	**5.500**	6.500	0.500	15.41
V0550006500NM	**5.500**	6.500	0.500	24.48
V0550006500NV*	**5.500**	6.500	0.500	8.22
V0550006750FF	**5.500**	6.750	0.625	34.89
V0550006750FM	**5.500**	6.750	0.625	34.34
V0550006750FV	**5.500**	6.750	0.625	34.90
V0562506250FF*	**5.625**	6.250	0.312	8.71
V0562506250FM*	**5.625**	6.250	0.312	8.71
V0562506250FV*	**5.625**	6.250	0.312	8.71
V0562506625FF*	**5.625**	6.625	0.500	12.41
V0562506625FM*	**5.625**	6.625	0.500	12.41

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



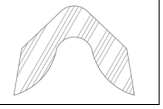
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



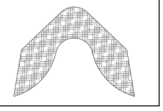
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



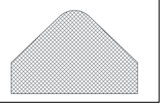
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



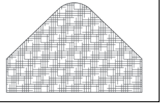
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

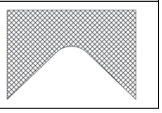


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

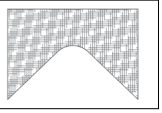


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



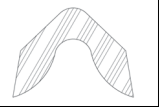
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



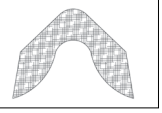
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



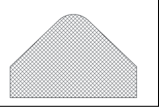
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



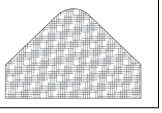
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0562506625FV*	**5.625**	6.625	0.500	13.49
V0562506625HV*	**5.625**	6.625	0.500	12.41
V0562506875FV*	**5.625**	6.875	0.625	28.71
V0562506875NF*	**5.625**	6.875	0.625	28.71
V0562506875NM*	**5.625**	6.875	0.625	28.71
V0570006450FV*	**5.700**	6.450	0.375	16.59
V0570006450HV*	**5.700**	6.450	0.375	13.26
V0570006450NF*	**5.700**	6.450	0.375	31.56
V0570006450NM*	**5.700**	6.450	0.375	31.56
V0575006250FF*	**5.750**	6.250	0.250	10.86
V0575006250FM*	**5.750**	6.250	0.250	10.86
V0575006250FV*	**5.750**	6.250	0.250	10.86
V0575006250NF*	**5.750**	6.250	0.250	10.86
V0575006250NM*	**5.750**	6.250	0.250	10.86
V0575006357FF*	**5.750**	6.357	0.304	4.13
V0575006375FM*	**5.750**	6.375	0.312	5.85
V0575006375FV	**5.750**	6.375	0.312	11.82
V0575006375HV	**5.750**	6.375	0.312	7.54
V0575006375NF	**5.750**	6.375	0.312	7.54
V0575006375NM	**5.750**	6.375	0.312	7.54
V0575006500FF*	**5.750**	6.500	0.375	10.57
V0575006500FM*	**5.750**	6.500	0.375	10.65
V0575006500FV	**5.750**	6.500	0.375	13.25
V0575006500HV	**5.750**	6.500	0.375	26.41
V0575006500NF	**5.750**	6.500	0.375	25.74
V0575006500NM	**5.750**	6.500	0.375	25.74
V0575006750FF*	**5.750**	6.750	0.500	20.38
V0575006750FM*	**5.750**	6.750	0.500	20.38
V0575006750FV*	**5.750**	6.750	0.500	21.71
V0575006750HV*	**5.750**	6.750	0.500	20.38
V0575006750NF	**5.750**	6.750	0.500	21.71
V0575006750NM	**5.750**	6.750	0.500	21.71
V0575007250FF*	**5.750**	7.250	0.750	24.49
V0575007250FM*	**5.750**	7.250	0.750	24.49
V0575007250FV*	**5.750**	7.250	0.750	24.49
V0575007250HV*	**5.750**	7.250	0.750	24.49
V0577506525FF*	**5.775**	6.525	0.375	16.92
V0577506525FM*	**5.775**	6.525	0.375	16.92
V0577506525FV*	**5.775**	6.525	0.375	16.92
V0579506545FV*	**5.795**	6.545	0.375	13.21
V0579506545NF*	**5.795**	6.545	0.375	13.21
V0579506545NM*	**5.795**	6.545	0.375	13.21
V0587506375NF*	**5.875**	6.375	0.250	4.31
V0587506375NM*	**5.875**	6.375	0.250	4.31
V0587506437FV*	**5.875**	6.437	0.281	7.70
V0587506437HV*	**5.875**	6.437	0.281	7.70

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0587506875FF*	**5.875**	6.875	0.500	16.54
V0587506875FM*	**5.875**	6.875	0.500	16.54
V0587506875HV*	**5.875**	6.875	0.500	16.54
V0595006500BV*	**5.950**	6.500	0.275	6.84
V0595006500FF*	**5.950**	6.500	0.275	6.84
V0595006500FM*	**5.950**	6.500	0.275	6.84
V0595006500FV*	**5.950**	6.500	0.275	18.73
V0595006500HV*	**5.950**	6.500	0.275	19.26
V0595006500NF	**5.950**	6.500	0.275	18.56
V0595006500NM*	**5.950**	6.500	0.275	15.90
V0597006520FV	**5.970**	6.520	0.275	17.54
V0597006520HV	**5.970**	6.520	0.275	8.05
V0597006520NF*	**5.970**	6.520	0.275	8.05
V0597006520NM*	**5.970**	6.520	0.275	8.05
V0600006500FF*	**6.000**	6.500	0.250	5.01
V0600006500FM*	**6.000**	6.500	0.250	5.07
V0600006500FV	**6.000**	6.500	0.250	7.96
V0600006500HV	**6.000**	6.500	0.250	6.34
V0600006500NF	**6.000**	6.500	0.250	6.70
V0600006500NM	**6.000**	6.500	0.250	6.68
V0600006530FV	**6.000**	6.530	0.265	9.63
V0600006530HV*	**6.000**	6.530	0.265	6.99
V0600006625FF*	**6.000**	6.625	0.312	7.36
V0600006625FM*	**6.000**	6.625	0.312	7.36
V0600006625FV	**6.000**	6.625	0.312	12.29
V0600006625NF	**6.000**	6.625	0.312	8.11
V0600006625NM	**6.000**	6.625	0.312	8.11
V0600006750BV	**6.000**	6.750	0.375	19.53
V0600006750FF*	**6.000**	6.750	0.375	10.41
V0600006750FV	**6.000**	6.750	0.375	13.87
V0600006750NF	**6.000**	6.750	0.375	15.73
V0600006750NM	**6.000**	6.750	0.375	24.08
V0600007000BV*	**6.000**	7.000	0.500	18.88
V0600007000FF	**6.000**	7.000	0.500	18.88
V0600007000FM	**6.000**	7.000	0.500	20.12
V0600007000FV	**6.000**	7.000	0.500	18.88
V0600007000HV*	**6.000**	7.000	0.500	20.07
V0600007000NF	**6.000**	7.000	0.500	34.70
V0600007000NM	**6.000**	7.000	0.500	18.88
V0600007040FF*	**6.000**	7.040	0.520	19.96
V0600007040FM*	**6.000**	7.040	0.520	17.16
V0600007040FV*	**6.000**	7.040	0.520	16.49
V0600007250FF	**6.000**	7.250	0.625	25.05
V0600007250FM	**6.000**	7.250	0.625	25.05
V0600007250FV	**6.000**	7.250	0.625	25.64
V0600007500FF*	**6.000**	7.500	0.750	31.57

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

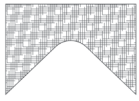
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0600007500FM*	**6.000**	7.500	0.750	31.57
V0600007500FV*	**6.000**	7.500	0.750	53.60
V0603006780FV*	**6.030**	6.780	0.375	11.15
V0603006780HV*	**6.030**	6.780	0.375	11.15
V0603006780NF*	**6.030**	6.780	0.375	11.15
V0603006780NM*	**6.030**	6.780	0.375	11.15
V0625006750FF*	**6.250**	6.750	0.250	28.36
V0625006750FM*	**6.250**	6.750	0.250	8.34
V0625006750FV*	**6.250**	6.750	0.250	21.69
V0625006875FM*	**6.250**	6.875	0.312	6.89
V0625006875FV*	**6.250**	6.875	0.312	12.70
V0625006875HV*	**6.250**	6.875	0.312	10.63
V0625006875NF*	**6.250**	6.875	0.312	10.63
V0625006875NM*	**6.250**	6.875	0.312	10.63
V0625007000BV*	**6.250**	7.000	0.375	12.93
V0625007000FF*	**6.250**	7.000	0.375	14.50
V0625007000FM*	**6.250**	7.000	0.375	14.50
V0625007000FV	**6.250**	7.000	0.375	14.99
V0625007000NF	**6.250**	7.000	0.375	13.20
V0625007000NM	**6.250**	7.000	0.375	12.65
V0625007250FF	**6.250**	7.250	0.500	23.90
V0625007250FM	**6.250**	7.250	0.500	23.90
V0625007250FV	**6.250**	7.250	0.500	23.90
V0625007250NF*	**6.250**	7.250	0.500	20.03
V0625007250NM*	**6.250**	7.250	0.500	20.03
V0644506945FM*	**6.445**	6.945	0.250	6.57
V0644506945FV*	**6.445**	6.945	0.250	7.83
V0644506945HV*	**6.445**	6.945	0.250	7.83
V0644506945NF*	**6.445**	6.945	0.250	7.83
V0644506945NM*	**6.445**	6.945	0.250	7.83
V0647507025FV	**6.475**	7.025	0.275	13.29
V0650007000FF*	**6.500**	7.000	0.250	10.13
V0650007000FM*	**6.500**	7.000	0.250	9.52
V0650007000FV	**6.500**	7.000	0.250	12.39
V0650007000HV	**6.500**	7.000	0.250	10.13
V0650007000NF	**6.500**	7.000	0.250	15.59
V0650007000NM	**6.500**	7.000	0.250	10.13
V0650007062FF*	**6.500**	7.062	0.281	11.89
V0650007062FM*	**6.500**	7.062	0.281	13.97
V0650007062FV*	**6.500**	7.062	0.281	11.89
V0650007250FM*	**6.500**	7.250	0.375	15.27
V0650007250FV*	**6.500**	7.250	0.375	19.82
V0650007250HV*	**6.500**	7.250	0.375	19.82
V0650007250NF*	**6.500**	7.250	0.375	19.82
V0650007250NM*	**6.500**	7.250	0.375	25.60
V0650007258FF*	**6.500**	7.258	0.379	4.28

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0650007500FF*	**6.500**	7.500	0.500	26.08
V0650007500FV	**6.500**	7.500	0.500	22.80
V0650007500NF	**6.500**	7.500	0.500	27.55
V0650007500NM	**6.500**	7.500	0.500	27.55
V0650007750FF*	**6.500**	7.750	0.625	34.90
V0650007750FM*	**6.500**	7.750	0.625	34.90
V0650007750FV*	**6.500**	7.750	0.625	34.90
V0650008500FF*	**6.500**	8.500	1.000	78.43
V0650008500FM*	**6.500**	8.500	1.000	78.43
V0650008500FV*	**6.500**	8.500	1.000	78.43
V0662507250FF*	**6.625**	7.250	0.312	19.27
V0662507250FM*	**6.625**	7.250	0.312	19.27
V0662507250FV*	**6.625**	7.250	0.312	19.27
V0662507250NF*	**6.625**	7.250	0.312	16.15
V0662507250NM*	**6.625**	7.250	0.312	16.15
V0668707312FF*	**6.687**	7.312	0.312	11.34
V0668707312FM*	**6.687**	7.312	0.312	11.34
V0668707312FV*	**6.687**	7.312	0.312	11.34
V0668707312HV*	**6.687**	7.312	0.312	11.34
V0670007250FV	**6.700**	7.250	0.275	18.72
V0670007250NF	**6.700**	7.250	0.275	18.72
V0670007250NM	**6.700**	7.250	0.275	18.72
V0670007500FF*	**6.700**	7.500	0.400	14.32
V0670007500FM*	**6.700**	7.500	0.400	14.32
V0670007500FV*	**6.700**	7.500	0.400	14.32
V0674507380FV*	**6.745**	7.380	0.318	0.00
V0675007250BV*	**6.750**	7.250	0.250	10.41
V0675007250FF*	**6.750**	7.250	0.250	12.41
V0675007250FM*	**6.750**	7.250	0.250	12.41
V0675007250FV	**6.750**	7.250	0.250	14.68
V0675007250HV*	**6.750**	7.250	0.250	12.41
V0675007250NF	**6.750**	7.250	0.250	12.41
V0675007250NM	**6.750**	7.250	0.250	12.41
V0675007375FF*	**6.750**	7.375	0.312	9.46
V0675007375FM*	**6.750**	7.375	0.312	9.46
V0675007375FV	**6.750**	7.375	0.312	14.25
V0675007375HV	**6.750**	7.375	0.312	11.29
V0675007375NF	**6.750**	7.375	0.312	11.29
V0675007375NM	**6.750**	7.375	0.312	13.92
V0675007500FV*	**6.750**	7.500	0.375	19.88
V0675007500NF	**6.750**	7.500	0.375	24.65
V0675007500NM	**6.750**	7.500	0.375	19.88
V0675007750BV*	**6.750**	7.750	0.500	30.58
V0675007750FF*	**6.750**	7.750	0.500	30.58
V0675007750FM*	**6.750**	7.750	0.500	30.58
V0675007750FV*	**6.750**	7.750	0.500	30.58

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



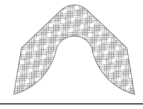
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



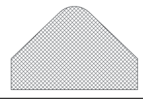
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



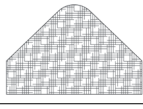
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

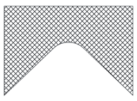


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

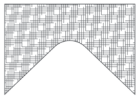


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



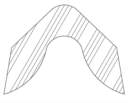
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



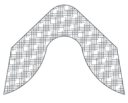
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



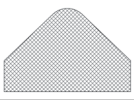
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



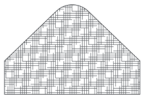
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0675007750NF*	**6.750**	7.750	0.500	30.58
V0675007750NM*	**6.750**	7.750	0.500	30.58
V0675008000FF*	**6.750**	8.000	0.625	42.20
V0675008000FM*	**6.750**	8.000	0.625	42.20
V0675008000FV*	**6.750**	8.000	0.625	42.20
V0687507750FF*	**6.875**	7.750	0.437	18.22
V0687507750FM*	**6.875**	7.750	0.437	18.22
V0687507750FV*	**6.875**	7.750	0.437	18.22
V0694007500FF*	**6.940**	7.500	0.280	10.86
V0694007500FM*	**6.940**	7.500	0.280	10.86
V0694007500FV*	**6.940**	7.500	0.280	10.86
V0695007500FF*	**6.950**	7.500	0.275	8.48
V0695007500FM*	**6.950**	7.500	0.275	8.48
V0695007500FV*	**6.950**	7.500	0.275	10.11
V0695007500HV*	**6.950**	7.500	0.275	10.11
V0695007500NF*	**6.950**	7.500	0.275	10.11
V0695007500NM*	**6.950**	7.500	0.275	10.11
V0697007520BV*	**6.970**	7.520	0.275	9.53
V0697007520FF*	**6.970**	7.520	0.275	9.53
V0697007520FM*	**6.970**	7.520	0.275	9.53
V0697007520FV*	**6.970**	7.520	0.275	14.83
V0697007520HV*	**6.970**	7.520	0.275	14.83
V0697007520NF*	**6.970**	7.520	0.275	14.83
V0697007520NM*	**6.970**	7.520	0.275	15.28
V0700007500FF*	**7.000**	7.500	0.250	6.69
V0700007500FM*	**7.000**	7.500	0.250	6.69
V0700007500FV	**7.000**	7.500	0.250	9.77
V0700007500HV	**7.000**	7.500	0.250	7.50
V0700007500NF	**7.000**	7.500	0.250	7.50
V0700007500NM	**7.000**	7.500	0.250	7.50
V0700007530FV*	**7.000**	7.530	0.265	14.12
V0700007530HV*	**7.000**	7.530	0.265	8.13
V0700007750BV	**7.000**	7.750	0.375	19.91
V0700007750FV	**7.000**	7.750	0.375	32.63
V0700007750NF	**7.000**	7.750	0.375	24.60
V0700007750NM	**7.000**	7.750	0.375	32.75
V0700008000FM*	**7.000**	8.000	0.500	23.31
V0700008000FV	**7.000**	8.000	0.500	29.29
V0700008000HV	**7.000**	8.000	0.500	29.29
V0700008000NF	**7.000**	8.000	0.500	29.29
V0700008000NM	**7.000**	8.000	0.500	29.29
V0700008000NV*	**7.000**	8.000	0.500	14.12
V0700008040FV*	**7.000**	8.040	0.520	25.92
V0700008250FF*	**7.000**	8.250	0.625	74.46
V0700008250FM*	**7.000**	8.250	0.625	74.46
V0700008250FV	**7.000**	8.250	0.625	37.12

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0700008500FF*	**7.000**	8.500	0.750	44.62
V0700008500FM*	**7.000**	8.500	0.750	44.62
V0700008500FV*	**7.000**	8.500	0.750	44.62
V0725007750BV*	**7.250**	7.750	0.250	11.21
V0725007750FF*	**7.250**	7.750	0.250	26.19
V0725007750FM*	**7.250**	7.750	0.250	26.19
V0725007750FV*	**7.250**	7.750	0.250	26.19
V0725007750HV*	**7.250**	7.750	0.250	11.21
V0725008000FF*	**7.250**	8.000	0.375	22.48
V0725008000FM*	**7.250**	8.000	0.375	22.48
V0725008000FV	**7.250**	8.000	0.375	23.95
V0725008000NF*	**7.250**	8.000	0.375	23.95
V0725008000NM*	**7.250**	8.000	0.375	23.95
V0725008250FF*	**7.250**	8.250	0.500	38.04
V0725008250FM*	**7.250**	8.250	0.500	38.04
V0725008250FV	**7.250**	8.250	0.500	49.19
V0725008250HV*	**7.250**	8.250	0.500	23.22
V0737508000FV*	**7.375**	8.000	0.312	24.78
V0744507945FV*	**7.445**	7.945	0.250	8.26
V0744507945HV*	**7.445**	7.945	0.250	8.26
V0744507945NF*	**7.445**	7.945	0.250	8.26
V0744507945NM*	**7.445**	7.945	0.250	8.26
V0750008000FF*	**7.500**	8.000	0.250	10.66
V0750008000FM*	**7.500**	8.000	0.250	10.66
V0750008000FV	**7.500**	8.000	0.250	10.66
V0750008000HV	**7.500**	8.000	0.250	10.66
V0750008000NF	**7.500**	8.000	0.250	10.66
V0750008000NM	**7.500**	8.000	0.250	11.86
V0750008125FF*	**7.500**	8.125	0.312	18.08
V0750008125FV	**7.500**	8.125	0.312	19.26
V0750008125HV*	**7.500**	8.125	0.312	18.08
V0750008125NF*	**7.500**	8.125	0.312	19.26
V0750008125NM*	**7.500**	8.125	0.312	19.26
V0750008250FF*	**7.500**	8.250	0.375	20.16
V0750008250FM*	**7.500**	8.250	0.375	20.16
V0750008250FV*	**7.500**	8.250	0.375	32.99
V0750008250HV*	**7.500**	8.250	0.375	31.20
V0750008250NF*	**7.500**	8.250	0.375	31.20
V0750008250NM*	**7.500**	8.250	0.375	19.56
V0750008500FF	**7.500**	8.500	0.500	40.18
V0750008500FM	**7.500**	8.500	0.500	40.18
V0750008500FV	**7.500**	8.500	0.500	42.80
V0750008500NF	**7.500**	8.500	0.500	63.06
V0750008500NM	**7.500**	8.500	0.500	63.06
V0750008750FF*	**7.500**	8.750	0.625	65.07
V0750008750FM*	**7.500**	8.750	0.625	61.82

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

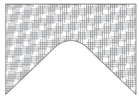
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0750008750FV*	**7.500**	8.750	0.625	40.03
V0750008812FF*	**7.500**	8.812	0.656	19.95
V0750008812FM*	**7.500**	8.812	0.656	19.95
V0750008812FV*	**7.500**	8.812	0.656	19.95
V0750010000FF*	**7.500**	10.000	1.250	93.39
V0750010000FM*	**7.500**	10.000	1.250	93.39
V0750010000FV*	**7.500**	10.000	1.250	93.39
V0762508125FV*	**7.625**	8.125	0.250	11.40
V0768708312FF*	**7.687**	8.312	0.312	17.61
V0768708312FM*	**7.687**	8.312	0.312	17.61
V0768708312FV*	**7.687**	8.312	0.312	17.61
V0775008250FF*	**7.750**	8.250	0.250	13.81
V0775008250FM*	**7.750**	8.250	0.250	13.81
V0775008250FV*	**7.750**	8.250	0.250	22.07
V0775008250HV*	**7.750**	8.250	0.250	11.57
V0775008500FV*	**7.750**	8.500	0.375	24.61
V0775008500NF*	**7.750**	8.500	0.375	24.61
V0775008500NM*	**7.750**	8.500	0.375	24.61
V0775008514FF*	**7.750**	8.514	0.382	25.20
V0775008514FV*	**7.750**	8.514	0.382	25.20
V0775008750FV*	**7.750**	8.750	0.500	46.41
V0787508875BV*	**7.875**	8.875	0.500	160.16
V0787508875FV*	**7.875**	8.875	0.500	44.88
V0790508543FF*	**7.905**	8.543	0.319	12.12
V0790508543FV	**7.905**	8.543	0.319	41.10
V0790508543HV*	**7.905**	8.543	0.319	25.02
V0790508543NF	**7.905**	8.543	0.319	14.22
V0790508543NM	**7.905**	8.543	0.319	14.22
V0792509170BV	**7.925**	9.170	0.623	59.77
V0792509170FV	**7.925**	9.170	0.623	61.89
V0795008500FF*	**7.950**	8.500	0.275	11.15
V0795008500FM*	**7.950**	8.500	0.275	11.15
V0795008500FV*	**7.950**	8.500	0.275	12.42
V0795008500HV*	**7.950**	8.500	0.275	12.42
V0795008500NF*	**7.950**	8.500	0.275	12.42
V0795008500NM*	**7.950**	8.500	0.275	12.42
V0797008520FF*	**7.970**	8.520	0.275	14.83
V0797008520FM*	**7.970**	8.520	0.275	14.83
V0797008520FV*	**7.970**	8.520	0.275	14.83
V0797008520HV*	**7.970**	8.520	0.275	14.83
V0797008520NF*	**7.970**	8.520	0.275	14.83
V0797008520NM*	**7.970**	8.520	0.275	14.83
V0800008500FF*	**8.000**	8.500	0.250	15.01
V0800008500FM*	**8.000**	8.500	0.250	15.01
V0800008500FV	**8.000**	8.500	0.250	11.29
V0800008500HF*	**8.000**	8.500	0.250	3.92

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0800008500HV	**8.000**	8.500	0.250	9.11
V0800008500NF	**8.000**	8.500	0.250	14.99
V0800008500NM	**8.000**	8.500	0.250	14.99
V0800008525FF*	**8.000**	8.525	0.263	11.63
V0800008525FM*	**8.000**	8.525	0.263	11.63
V0800008525FV*	**8.000**	8.525	0.263	11.63
V0800008525NF*	**8.000**	8.525	0.263	11.63
V0800008525NM*	**8.000**	8.525	0.263	11.63
V0800008530BV*	**8.000**	8.530	0.265	11.96
V0800008530FV*	**8.000**	8.530	0.265	13.54
V0800008750BV*	**8.000**	8.750	0.375	21.81
V0800008750FV	**8.000**	8.750	0.375	21.81
V0800008750HV*	**8.000**	8.750	0.375	18.28
V0800008750NF	**8.000**	8.750	0.375	35.89
V0800008750NM	**8.000**	8.750	0.375	35.89
V0800009000BV	**8.000**	9.000	0.500	28.85
V0800009000FF	**8.000**	9.000	0.500	25.98
V0800009000FM	**8.000**	9.000	0.500	25.98
V0800009000FV	**8.000**	9.000	0.500	64.01
V0800009000NF*	**8.000**	9.000	0.500	22.85
V0800009000NM*	**8.000**	9.000	0.500	22.85
V0800009000NV*	**8.000**	9.000	0.500	16.58
V0800009250FF*	**8.000**	9.250	0.625	44.43
V0800009250FM	**8.000**	9.250	0.625	44.43
V0800009250FV	**8.000**	9.250	0.625	44.90
V0800009500FF	**8.000**	9.500	0.750	113.69
V0800009500FM	**8.000**	9.500	0.750	54.58
V0800009500FV*	**8.000**	9.500	0.750	54.37
V0804009040FF*	**8.040**	9.040	0.500	27.50
V0804009040FM*	**8.040**	9.040	0.500	27.50
V0804009040FV*	**8.040**	9.040	0.500	27.50
V0805009050FV*	**8.050**	9.050	0.500	31.01
V0812508625FF*	**8.125**	8.625	0.250	9.90
V0812508625FM*	**8.125**	8.625	0.250	9.90
V0812508625FV*	**8.125**	8.625	0.250	11.81
V0812508625HV*	**8.125**	8.625	0.250	11.81
V0812508625NF*	**8.125**	8.625	0.250	11.81
V0812508625NM*	**8.125**	8.625	0.250	11.81
V0825008750FF	**8.250**	8.750	0.250	13.02
V0825008750FM	**8.250**	8.750	0.250	13.02
V0825008750FV	**8.250**	8.750	0.250	14.97
V0825008750HV	**8.250**	8.750	0.250	13.82
V0825008750NF	**8.250**	8.750	0.250	14.47
V0825008750NM	**8.250**	8.750	0.250	13.82
V0825009000FF*	**8.250**	9.000	0.375	21.85
V0825009000FM*	**8.250**	9.000	0.375	18.54

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



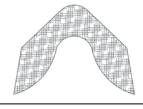
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



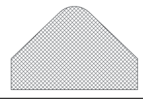
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



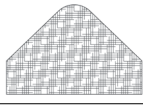
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

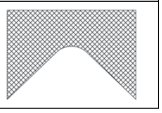


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

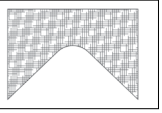


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



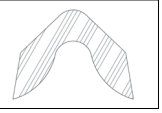
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



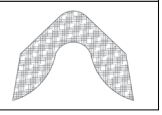
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



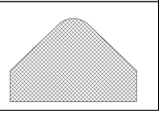
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



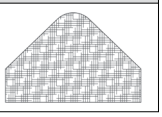
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)



Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0825009000FV	**8.250**	9.000	0.375	37.79
V0825009000HV	**8.250**	9.000	0.375	22.10
V0825009000NF	**8.250**	9.000	0.375	22.10
V0825009000NM	**8.250**	9.000	0.375	22.10
V0844509195FV*	**8.445**	9.195	0.375	21.25
V0844509195HV*	**8.445**	9.195	0.375	21.25
V0844509195NF*	**8.445**	9.195	0.375	21.25
V0844509195NM*	**8.445**	9.195	0.375	21.25
V0850009000BV*	**8.500**	9.000	0.250	12.52
V0850009000FF*	**8.500**	9.000	0.250	14.95
V0850009000FM*	**8.500**	9.000	0.250	14.95
V0850009000FV*	**8.500**	9.000	0.250	17.88
V0850009000HV*	**8.500**	9.000	0.250	17.87
V0850009000NF*	**8.500**	9.000	0.250	17.88
V0850009000NM*	**8.500**	9.000	0.250	17.88
V0850009250FV*	**8.500**	9.250	0.375	20.15
V0850009250NF*	**8.500**	9.250	0.375	31.94
V0850009250NM*	**8.500**	9.250	0.375	31.94
V0850009500FF	**8.500**	9.500	0.500	61.20
V0850009500FM	**8.500**	9.500	0.500	61.20
V0850009500FV	**8.500**	9.500	0.500	38.90
V0850010000FF	**8.500**	10.000	0.750	59.87
V0850010000FM	**8.500**	10.000	0.750	59.87
V0850010000FV	**8.500**	10.000	0.750	54.20
V0850010062DF*	**8.500**	10.062	0.781	354.96
V0850010062DM*	**8.500**	10.062	0.781	279.91
V0850010062FF*	**8.500**	10.062	0.781	50.73
V0850010062FM*	**8.500**	10.062	0.781	50.73
V0850010062FV*	**8.500**	10.062	0.781	56.82
V0862509625FV*	**8.625**	9.625	0.500	27.94
V0875009375FF	**8.750**	9.375	0.312	21.07
V0875009375FM	**8.750**	9.375	0.312	21.07
V0875009375FV	**8.750**	9.375	0.312	21.07
V0875009500FV*	**8.750**	9.500	0.375	21.26
V0875010000FF*	**8.750**	10.000	0.625	62.32
V0875010000FM*	**8.750**	10.000	0.625	69.83
V0875010000FV	**8.750**	10.000	0.625	88.62
V0887509875BV*	**8.875**	9.875	0.500	198.91
V0887509875FF*	**8.875**	9.875	0.500	30.64
V0887509875FM*	**8.875**	9.875	0.500	30.64
V0887509875FV*	**8.875**	9.875	0.500	32.18
V0894509745FF*	**8.945**	9.745	0.400	24.84
V0894509745FV*	**8.945**	9.745	0.400	24.84
V0895009500FV*	**8.950**	9.500	0.275	16.52
V0895009500HV*	**8.950**	9.500	0.275	16.52
V0895009500NF*	**8.950**	9.500	0.275	16.52

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0895009500NM*	**8.950**	9.500	0.275	16.52
V0900009500FV*	**9.000**	9.500	0.250	27.26
V0900009500NF*	**9.000**	9.500	0.250	27.26
V0900009500NM	**9.000**	9.500	0.250	32.19
V0900009750FF*	**9.000**	9.750	0.375	21.74
V0900009750FM*	**9.000**	9.750	0.375	21.74
V0900009750FV	**9.000**	9.750	0.375	26.12
V0900009750HV*	**9.000**	9.750	0.375	38.02
V0900009750NF	**9.000**	9.750	0.375	30.18
V0900009750NM	**9.000**	9.750	0.375	35.83
V0900009750NV*	**9.000**	9.750	0.375	0.00
V0900010000BV	**9.000**	10.000	0.500	49.24
V0900010000FV	**9.000**	10.000	0.500	61.30
V0900010000NF	**9.000**	10.000	0.500	37.26
V0900010000NM	**9.000**	10.000	0.500	38.99
V0900010250FF	**9.000**	10.250	0.625	93.29
V0900010250FM	**9.000**	10.250	0.625	48.09
V0900010250FV	**9.000**	10.250	0.625	74.36
V0900010500FF*	**9.000**	10.500	0.750	50.81
V0900010500FM*	**9.000**	10.500	0.750	50.81
V0900010500FV	**9.000**	10.500	0.750	61.54
V0900010500NF*	**9.000**	10.500	0.750	47.19
V0900011000FF*	**9.000**	11.000	1.000	101.52
V0900011000FM*	**9.000**	11.000	1.000	101.52
V0900011000FV*	**9.000**	11.000	1.000	101.52
V0912509625FV*	**9.125**	9.625	0.250	20.37
V0912509625NF*	**9.125**	9.625	0.250	20.37
V0912509625NM*	**9.125**	9.625	0.250	20.37
V0912509675FF*	**9.125**	9.675	0.275	18.39
V0912509675FM*	**9.125**	9.675	0.275	18.39
V0912509675FV*	**9.125**	9.675	0.275	18.39
V0912509675HV*	**9.125**	9.675	0.275	18.39
V0912509675NM*	**9.125**	9.675	0.275	18.39
V0912509750FF*	**9.125**	9.750	0.312	19.12
V0912509750FV	**9.125**	9.750	0.312	22.81
V0912509750HV	**9.125**	9.750	0.312	23.83
V0912509750NF	**9.125**	9.750	0.312	22.81
V0912509750NM	**9.125**	9.750	0.312	22.81
V0912509875FF*	**9.125**	9.875	0.375	24.54
V0912509875FV*	**9.125**	9.875	0.375	24.54
V0912509875HV*	**9.125**	9.875	0.375	24.54
V0912509875NM*	**9.125**	9.875	0.375	24.54
V0912510625FV*	**9.125**	10.625	0.750	51.22
V0924009790FV*	**9.240**	9.790	0.275	40.45
V0925009750FF*	**9.250**	9.750	0.250	28.15
V0925009750FM*	**9.250**	9.750	0.250	28.15

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Packing series

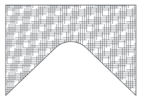
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V0925009750FV	**9.250**	9.750	0.250	28.15
V0925009750HV*	**9.250**	9.750	0.250	13.43
V0937509875FV	**9.375**	9.875	0.250	29.79
V0937509875HV	**9.375**	9.875	0.250	20.78
V0937509875NF	**9.375**	9.875	0.250	17.71
V0937509875NM	**9.375**	9.875	0.250	17.71
V0937510000FV*	**9.375**	10.000	0.312	32.91
V0937510000HV*	**9.375**	10.000	0.312	32.91
V0937510000NF*	**9.375**	10.000	0.312	32.91
V0937510000NM*	**9.375**	10.000	0.312	32.91
V0942510017FF*	**9.425**	10.017	0.296	20.49
V0942510017FM*	**9.425**	10.017	0.296	20.49
V0942510017FV*	**9.425**	10.017	0.296	20.49
V0950010000FF*	**9.500**	10.000	0.250	24.78
V0950010000FM*	**9.500**	10.000	0.250	24.78
V0950010000FV*	**9.500**	10.000	0.250	24.78
V0950010000HV	**9.500**	10.000	0.250	26.83
V0950010000NF	**9.500**	10.000	0.250	26.84
V0950010000NM	**9.500**	10.000	0.250	26.84
V0950010500FF	**9.500**	10.500	0.500	59.15
V0950010500FM*	**9.500**	10.500	0.500	59.15
V0950010500FV*	**9.500**	10.500	0.500	49.07
V0962510125FF*	**9.625**	10.125	0.250	18.36
V0962510125FM*	**9.625**	10.125	0.250	18.36
V0962510125FV*	**9.625**	10.125	0.250	18.36
V0975010500FF*	**9.750**	10.500	0.375	29.63
V0975010500FM*	**9.750**	10.500	0.375	29.63
V0975010500FV	**9.750**	10.500	0.375	60.73
V0975010500HV	**9.750**	10.500	0.375	41.18
V0975010500NF	**9.750**	10.500	0.375	37.94
V0975010500NM	**9.750**	10.500	0.375	41.18
V0975011000FF*	**9.750**	11.000	0.625	46.23
V0975011000FM*	**9.750**	11.000	0.625	46.23
V0975011000FV*	**9.750**	11.000	0.625	46.23
V0975011000NF*	**9.750**	11.000	0.625	46.23
V0975011000NM*	**9.750**	11.000	0.625	46.23
V0987510875BV*	**9.875**	10.875	0.500	215.74
V0987510875FV*	**9.875**	10.875	0.500	36.56
V1000011000FF*	**10.000**	11.000	0.500	51.92
V1000011000FM*	**10.000**	11.000	0.500	51.92
V1000011000FV*	**10.000**	11.000	0.500	51.92
V1000011250FF	**10.000**	11.250	0.625	120.22
V1000011250FM	**10.000**	11.250	0.625	106.39
V1000011250FV	**10.000**	11.250	0.625	56.32
V1000011500FF	**10.000**	11.500	0.750	127.84
V1000011500FM	**10.000**	11.500	0.750	85.47

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V1000011500FV*	**10.000**	11.500	0.750	66.42
V1050011000FF*	**10.500**	11.000	0.250	51.22
V1050011000FM*	**10.500**	11.000	0.250	47.73
V1050011000FV*	**10.500**	11.000	0.250	51.25
V1050011250FF	**10.500**	11.250	0.375	46.42
V1050011250FM	**10.500**	11.250	0.375	46.42
V1050011250FV	**10.500**	11.250	0.375	46.42
V1050011250NM*	**10.500**	11.250	0.375	38.92
V1050011500FF	**10.500**	11.500	0.500	62.12
V1050011500FM	**10.500**	11.500	0.500	62.12
V1050011500FV	**10.500**	11.500	0.500	57.37
V1062511375FV*	**10.625**	11.375	0.375	44.03
V1062512125FV	**10.625**	12.125	0.750	82.03
V1075011500FF*	**10.750**	11.500	0.375	69.78
V1075011500FM*	**10.750**	11.500	0.375	69.78
V1075011500FV*	**10.750**	11.500	0.375	69.78
V1075011750FF*	**10.750**	11.750	0.500	33.44
V1075011750FM*	**10.750**	11.750	0.500	33.44
V1075011750FV*	**10.750**	11.750	0.500	33.44
V1075012000FF*	**10.750**	12.000	0.625	144.24
V1075012000FM*	**10.750**	12.000	0.625	61.82
V1075012000FV*	**10.750**	12.000	0.625	96.14
V1087511875FF*	**10.875**	11.875	0.500	43.37
V1087511875FM*	**10.875**	11.875	0.500	43.37
V1087511875FV*	**10.875**	11.875	0.500	43.37
V1100011500FM*	**11.000**	11.500	0.250	43.37
V1100012000BV*	**11.000**	12.000	0.500	50.05
V1100012000FF	**11.000**	12.000	0.500	93.61
V1100012000FM	**11.000**	12.000	0.500	81.97
V1100012000FV	**11.000**	12.000	0.500	87.81
V1100012500FF*	**11.000**	12.500	0.750	59.33
V1100012500FM*	**11.000**	12.500	0.750	59.33
V1100012500FV*	**11.000**	12.500	0.750	59.33
V1125012000FF	**11.250**	12.000	0.375	51.87
V1125012000FM	**11.250**	12.000	0.375	51.87
V1125012000FV	**11.250**	12.000	0.375	51.87
V1150013250FF*	**11.500**	13.250	0.875	122.29
V1150013250FM*	**11.500**	13.250	0.875	122.29
V1150013250FV*	**11.500**	13.250	0.875	122.29
V1175013000FF*	**11.750**	13.000	0.625	275.47
V1175013000FM*	**11.750**	13.000	0.625	275.47
V1175013000FV*	**11.750**	13.000	0.625	275.47
V1175013250FF*	**11.750**	13.250	0.750	59.54
V1175013250FM*	**11.750**	13.250	0.750	59.54
V1175013250FV*	**11.750**	13.250	0.750	59.54
V1187512875FF*	**11.875**	12.875	0.500	165.14

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



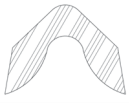
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



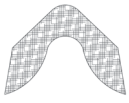
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



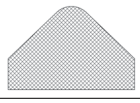
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



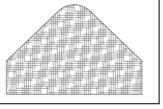
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)

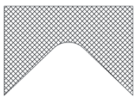


FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

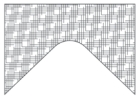


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

NF
NYLON FEMALE
-40°F to +250°F
(-40°C to +121°C)



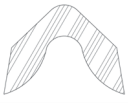
FF
FABRIC FEMALE
-40°F to +250°F
(-40°C to +121°C)



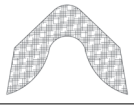
BV
BUNA VEE
-40°F to +250°F
(-40°C to +121°C)



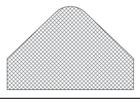
HV
HYTREL VEE
-40°F to +300°F
(-40°C to +189°C)



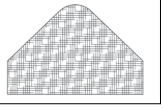
FV
FABRIC VEE
-40°F to +250°F
(-40°C to +121°C)



NM
NYLON MALE
-40°F to +250°F
(-40°C to +121°C)



FM
FABRIC MALE
-40°F to +250°F
(-40°C to +121°C)

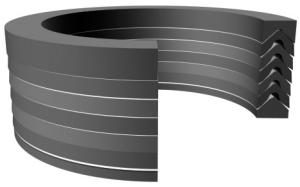


Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V1187512875FM*	**11.875**	12.875	0.500	165.14
V1187512875FV*	**11.875**	12.875	0.500	122.46
V1200013000BV*	**12.000**	13.000	0.500	280.76
V1200013000FF*	**12.000**	13.000	0.500	61.12
V1200013000FM*	**12.000**	13.000	0.500	61.12
V1200013000FV*	**12.000**	13.000	0.500	61.12
V1250013750FF*	**12.500**	13.750	0.625	64.49
V1250013750FM*	**12.500**	13.750	0.625	64.49
V1250013750FV*	**12.500**	13.750	0.625	64.49
V1250014000FM*	**12.500**	14.000	0.750	69.44
V1250014000FV*	**12.500**	14.000	0.750	69.44
V1275014000FF*	**12.750**	14.000	0.625	73.04
V1275014000FM*	**12.750**	14.000	0.625	73.04
V1275014000FV*	**12.750**	14.000	0.625	73.04
V1300014000FF*	**13.000**	14.000	0.500	58.36
V1300014000FM*	**13.000**	14.000	0.500	58.36
V1300014000FV	**13.000**	14.000	0.500	58.36
V1300014500FF*	**13.000**	14.500	0.750	65.13
V1300014500FM*	**13.000**	14.500	0.750	65.13
V1300014500FV*	**13.000**	14.500	0.750	65.13
V1350015000FF*	**13.500**	15.000	0.750	67.36
V1350015000FM*	**13.500**	15.000	0.750	67.36
V1350015000FV*	**13.500**	15.000	0.750	67.36
V1400015000FF*	**14.000**	15.000	0.500	117.78

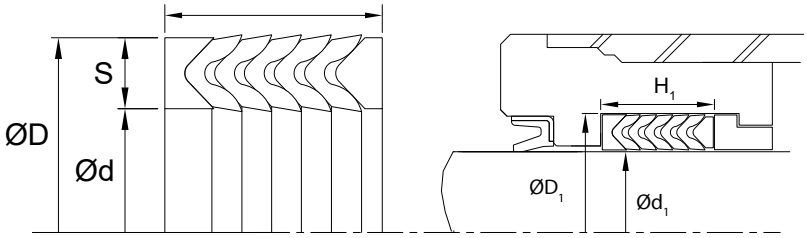
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
V1400015000FM*	**14.000**	15.000	0.500	114.11
V1400015000FV*	**14.000**	15.000	0.500	117.70
V1425015500FV*	**14.250**	15.500	0.625	80.27
V1500016000FF*	**15.000**	16.000	0.500	84.47
V1500016000FM*	**15.000**	16.000	0.500	84.47
V1500016000FV*	**15.000**	16.000	0.500	84.47
V1500016250FF*	**15.000**	16.250	0.625	84.80
V1500016250FM*	**15.000**	16.250	0.625	84.80
V1500016250FV*	**15.000**	16.250	0.625	84.80
V1500016250NF*	**15.000**	16.250	0.625	84.80
V1600017500FV*	**16.000**	17.500	0.750	100.02
V1700018000FV*	**17.000**	18.000	0.500	88.76
V1725018000FF*	**17.250**	18.000	0.375	74.61
V1725018000FM*	**17.250**	18.000	0.375	74.61
V1725018000FV*	**17.250**	18.000	0.375	74.61
V1850020000FV*	**18.500**	20.000	0.750	112.41
V1900020000FF*	**19.000**	20.000	0.500	89.44
V1900020000FM*	**19.000**	20.000	0.500	89.44
V1900020000FV*	**19.000**	20.000	0.500	89.44
V1900020250FV*	**19.000**	20.250	0.625	101.92
V2200023500FF*	**22.000**	23.500	0.750	113.08
V2200023500FM*	**22.000**	23.500	0.750	113.08
V2200023500FV*	**22.000**	23.500	0.750	113.08
V2250024000FV*	**22.500**	24.000	0.750	511.93

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Sets - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric, Nylon, Hytrel	-40°F to +250°F (-40°C to +121°C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)



Vee Sets are pre-packaged assemblies comprising of a variable quantity of intermediate sealing rings and also include male and female adapter rings.

These pre-packaged sets facilitate your ordering and stocking duties and are available in a wide variety of sizes.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0037500750VS-1041	**0.375**	0.750	0.187	0.812	19.95
V0037500875VS-1011	**0.375**	0.875	0.250	0.500	21.71
V0050000875VS-1031	**0.500**	0.875	0.187	0.625	16.92
V0050001000VS-1031	**0.500**	1.000	0.250	0.750	14.63
V0050001000VS-1041	**0.500**	1.000	0.250	0.875	18.02
V0062501000VS-1041*	**0.625**	1.000	0.187	0.875	25.78
V0062501125VS-1051*	**0.625**	1.125	0.250	1.062	24.00
V0062501250VS-1051	**0.625**	1.250	0.312	1.200	47.41
V0075001125VS-1031*	**0.750**	1.125	0.187	0.750	18.02
V0075001125VS-1061*	**0.750**	1.125	0.187	0.812	28.07
V0075001250VS-1021*	**0.750**	1.250	0.250	0.625	15.58
V0075001250VS-1051	**0.750**	1.250	0.250	1.000	28.22
V0075001375VS-1041	**0.750**	1.375	0.312	1.100	34.10
V0075001500VS-1031*	**0.750**	1.500	0.375	1.125	18.18
V0081201312VS-0041*	**0.812**	1.312	0.250	0.832	20.44
V0081201312VS-1041	**0.812**	1.312	0.250	0.987	24.87
V0087501250VS-1031*	**0.875**	1.250	0.187	0.812	15.07
V0087501375VS-1031*	**0.875**	1.375	0.250	0.750	18.78
V0087501375VS-1041	**0.875**	1.375	0.250	0.890	22.17
V0087501500VS-1041*	**0.875**	1.500	0.312	1.062	26.21
V0100001375VS-1231*	**1.000**	1.375	0.187	0.875	28.05
V0100001375VS-1061	**1.000**	1.375	0.187	1.000	35.79
V0100001500VS-0221*	**1.000**	1.500	0.250	0.750	19.23

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0100001500VS-1031	**1.000**	1.500	0.250	1.000	23.36
V0100001500VS-1051	**1.000**	1.500	0.250	1.062	32.13
V0100001500VS-1061	**1.000**	1.500	0.250	1.187	36.52
V0100001625VS-1041	**1.000**	1.625	0.312	1.062	20.31
V0100001750VS-1031*	**1.000**	1.750	0.375	1.000	25.63
V0106201562VS-1051*	**1.062**	1.562	0.250	1.000	28.73
V0112501625VS-1041	**1.125**	1.625	0.250	0.875	19.95
V0112501750VS-1041	**1.125**	1.750	0.312	1.125	20.16
V0118701562VS-1061*	**1.187**	1.562	0.187	0.937	43.73
V0118701687VS-1041*	**1.187**	1.687	0.250	1.000	20.75
V0125001750VS-1031	**1.250**	1.750	0.250	0.812	24.19
V0125001750VS-1221	**1.250**	1.750	0.250	0.937	28.36
V0125001750VS-1051	**1.250**	1.750	0.250	1.125	32.03
V0125001750VS-1061	**1.250**	1.750	0.250	1.250	36.56
V0125001875VS-1041	**1.250**	1.875	0.312	1.125	31.94
V0125002000VS-1121	**1.250**	2.000	0.375	1.000	25.00
V0125002250VS-1021*	**1.250**	2.250	0.500	1.000	38.74
V0125002250VS-1041*	**1.250**	2.250	0.500	1.500	66.77
V0137501750VS-1061*	**1.375**	1.750	0.187	1.062	27.69
V0137501875VS-1031	**1.375**	1.875	0.250	0.750	23.27
V0137501875VS-1231	**1.375**	1.875	0.250	1.000	51.44
V0137502000VS-1041	**1.375**	2.000	0.312	1.125	20.31
V0137502125VS-1041*	**1.375**	2.125	0.375	1.250	41.40

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Standard Vee Sets - NYLON/HYTREL/NEOFAB

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0150002000VS-1041	**1.500**	2.000	0.250	0.875	28.67
V0150002000VS-1131	**1.500**	2.000	0.250	0.875	24.41
V0150002000VS-1231	**1.500**	2.000	0.250	1.000	28.23
V0150002000VS-1241	**1.500**	2.000	0.250	1.125	32.84
V0150002000VS-1071	**1.500**	2.000	0.250	1.250	39.04
V0150002125VS-1221*	**1.500**	2.125	0.312	1.062	20.50
V0150002125VS-1051	**1.500**	2.125	0.312	1.187	24.17
V0150002250VS-1031	**1.500**	2.250	0.375	1.000	30.10
V0150002375VS-1051*	**1.500**	2.375	0.437	1.500	84.50
V0150002500VS-1121*	**1.500**	2.500	0.500	1.250	28.19
V0150002500VS-1221*	**1.500**	2.500	0.500	1.500	33.31
V0162502125VS-1031	**1.625**	2.125	0.250	0.750	19.87
V0162502125VS-1051*	**1.625**	2.125	0.250	1.000	26.63
V0162502125VS-1061*	**1.625**	2.125	0.250	1.125	30.02
V0162502250VS-1031	**1.625**	2.250	0.312	0.875	23.61
V0162502250VS-1041	**1.625**	2.250	0.312	1.000	27.14
V0175002125VS-0040*	**1.750**	2.125	0.187	0.437	18.77
V0175002125VS-1231	**1.750**	2.125	0.187	0.875	39.94
V0175002250VS-1131	**1.750**	2.250	0.250	0.875	24.50
V0175002250VS-1311	**1.750**	2.250	0.250	0.875	38.20
V0175002250VS-1051	**1.750**	2.250	0.250	1.000	25.36
V0175002250VS-1241	**1.750**	2.250	0.250	1.125	38.70
V0175002375VS-1121	**1.750**	2.375	0.312	0.875	27.23
V0175002375VS-1320	**1.750**	2.375	0.312	1.000	76.97
V0175002375VS-1221	**1.750**	2.375	0.312	1.062	39.75
V0175002375VS-1051	**1.750**	2.375	0.312	1.250	25.42
V0175002500VS-1031	**1.750**	2.500	0.375	1.000	22.90
V0175002500VS-1061*	**1.750**	2.500	0.375	1.625	38.51
V0187502375VS-1061	**1.875**	2.375	0.250	1.125	30.05
V0187502500VS-1041	**1.875**	2.500	0.312	1.125	25.01
V0187502625VS-1041*	**1.875**	2.625	0.375	1.125	39.37
V0193702437VS-1061*	**1.937**	2.437	0.250	1.187	43.90
V0200002375VS-1221*	**2.000**	2.375	0.187	0.625	27.31
V0200002500VS-1111	**2.000**	2.500	0.250	0.625	19.64
V0200002500VS-1041	**2.000**	2.500	0.250	0.812	21.64
V0200002500VS-1221	**2.000**	2.500	0.250	0.875	31.17
V0200002500VS-1231	**2.000**	2.500	0.250	1.000	34.56
V0200002500VS-1241	**2.000**	2.500	0.250	1.125	37.94
V0200002500VS-0220*	**2.000**	2.500	0.250	O/R	46.14
V0200002625VS-1031	**2.000**	2.625	0.312	0.875	18.95
V0200002625VS-1041	**2.000**	2.625	0.312	1.000	22.67
V0200002750VS-1121	**2.000**	2.750	0.375	1.000	22.33
V0200002750VS-1221	**2.000**	2.750	0.375	1.125	26.81
V0200002750VS-1231	**2.000**	2.750	0.375	1.375	31.47
V0200003000VS-1031	**2.000**	3.000	0.500	1.250	55.06
V0200003000VS-1041	**2.000**	3.000	0.500	1.562	61.78

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0212502625VS-1041*	**2.125**	2.625	0.250	0.937	20.63
V0212502750VS-1041	**2.125**	2.750	0.312	1.000	24.98
V0212502750VS-1320*	**2.125**	2.750	0.312	1.125	53.83
V0212502875VS-1041*	**2.125**	2.875	0.375	1.187	72.39
V0212502875VS-1051*	**2.125**	2.875	0.375	1.375	57.59
V0218702937VS-1061*	**2.187**	2.937	0.375	1.562	40.12
V0225002750VS-1131	**2.250**	2.750	0.250	0.937	23.37
V0225002750VS-1231	**2.250**	2.750	0.250	1.062	29.21
V0225002875VS-1041	**2.250**	2.875	0.312	1.187	30.72
V0225002875VS-1051*	**2.250**	2.875	0.312	1.375	34.76
V0225003000VS-1031	**2.250**	3.000	0.375	1.000	36.75
V0225003250VS-1041*	**2.250**	3.250	0.500	1.625	53.42
V0237502875VS-1051*	**2.375**	2.875	0.250	1.000	28.33
V0237503000VS-1041*	**2.375**	3.000	0.312	1.000	34.30
V0237503000VS-1051	**2.375**	3.000	0.312	1.125	38.55
V0237503125VS-1041	**2.375**	3.125	0.375	1.187	37.18
V0250002875VS-0040*	**2.500**	2.875	0.187	0.437	17.73
V0250003000VS-1121*	**2.500**	3.000	0.250	0.750	21.84
V0250003000VS-1041	**2.500**	3.000	0.250	0.875	23.04
V0250003000VS-1131	**2.500**	3.000	0.250	0.875	25.46
V0250003000VS-1231	**2.500**	3.000	0.250	0.937	31.51
V0250003000VS-1241	**2.500**	3.000	0.250	1.125	35.13
V0250003125VS-1031	**2.500**	3.125	0.312	0.875	27.03
V0250003125VS-1131*	**2.500**	3.125	0.312	1.187	37.20
V0250003125VS-1231	**2.500**	3.125	0.312	1.250	47.37
V0250003250VS-1121	**2.500**	3.250	0.375	0.937	27.65
V0250003250VS-1231	**2.500**	3.250	0.375	1.375	40.00
V0250003500VS-1031	**2.500**	3.500	0.500	1.250	58.57
V0262503125VS-1221	**2.625**	3.125	0.250	0.875	32.82
V0262503125VS-1071	**2.625**	3.125	0.250	1.375	41.72
V0262503250VS-1041*	**2.625**	3.250	0.312	1.000	53.20
V0262503375VS-1031*	**2.625**	3.375	0.375	1.000	58.56
V0275003250VS-1211*	**2.750**	3.250	0.250	0.687	19.16
V0275003250VS-1041	**2.750**	3.250	0.250	0.875	22.31
V0275003250VS-1141*	**2.750**	3.250	0.250	1.000	26.89
V0275003375VS-1221	**2.750**	3.375	0.312	1.000	28.33
V0275003500VS-1031	**2.750**	3.500	0.375	1.000	30.95
V0275003500VS-1221	**2.750**	3.500	0.375	1.125	37.07
V0275003500VS-1331	**2.750**	3.500	0.375	1.500	57.90
V0275003750VS-1061*	**2.750**	3.750	0.500	2.000	79.59
V0277503525VS-1031*	**2.775**	3.525	0.375	1.000	36.32
V0277503525VS-1131*	**2.775**	3.525	0.375	1.187	42.64
V0287503375VS-1041*	**2.875**	3.375	0.250	0.875	26.24
V0300003500VS-1021	**3.000**	3.500	0.250	0.625	20.04
V0300003500VS-1041	**3.000**	3.500	0.250	0.875	29.86
V0300003500VS-1131	**3.000**	3.500	0.250	0.875	31.03

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Standard Vee Sets - NYLON/HYTREL/NEOFAB

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0300003500VS-1311	**3.000**	3.500	0.250	0.875	27.56
V0300003500VS-1231	**3.000**	3.500	0.250	1.000	37.10
V0300003500VS-1241	**3.000**	3.500	0.250	1.125	42.01
V0300003625VS-1121*	**3.000**	3.625	0.312	0.890	33.19
V0300003625VS-1041*	**3.000**	3.625	0.312	1.062	38.35
V0300003625SVS-1051*	**3.000**	3.625	0.312	1.156	52.92
V0300003750VS-1121	**3.000**	3.750	0.375	1.000	36.49
V0300003750VS-1131*	**3.000**	3.750	0.375	1.125	41.02
V0300003750VS-1221*	**3.000**	3.750	0.375	1.125	43.76
V0300003750VS-1231	**3.000**	3.750	0.375	1.375	47.79
V0300004000VS-1221	**3.000**	4.000	0.500	1.500	61.87
V0325003625VS-0040*	**3.250**	3.625	0.187	0.375	16.21
V0325003750VS-1041*	**3.250**	3.750	0.250	0.937	24.20
V0325003750VS-1051	**3.250**	3.750	0.250	1.062	28.44
V0325003750VS-1231*	**3.250**	3.750	0.250	1.062	27.20
V0325003875VS-1041*	**3.250**	3.875	0.312	1.062	55.68
V0325004000VS-1041	**3.250**	4.000	0.375	1.187	50.67
V0325004000VS-1051	**3.250**	4.000	0.375	1.375	58.49
V0325004000VS-1061	**3.250**	4.000	0.375	1.562	66.30
V0325004250VS-1221*	**3.250**	4.250	0.500	1.500	65.62
V0327504025VS-1041*	**3.275**	4.025	0.375	1.187	73.54
V0337503875VS-1051*	**3.375**	3.875	0.250	1.062	28.34
V0337503875VS-1061*	**3.375**	3.875	0.250	1.250	32.80
V0337504000VS-1031*	**3.375**	4.000	0.312	0.875	25.78
V0337504000VS-1041*	**3.375**	4.000	0.312	1.000	31.11
V0337504125VS-1031*	**3.375**	4.125	0.375	1.000	53.77
V0337504125VS-1041*	**3.375**	4.125	0.375	1.187	61.10
V0350004000VS-1121*	**3.500**	4.000	0.250	0.750	25.50
V0350004000VS-1041	**3.500**	4.000	0.250	0.875	27.36
V0350004000VS-1231	**3.500**	4.000	0.250	1.000	37.79
V0350004000VS-1361*	**3.500**	4.000	0.250	1.500	59.53
V0350004250VS-1031*	**3.500**	4.250	0.375	1.000	37.13
V0350004250VS-1221	**3.500**	4.250	0.375	1.125	45.95
V0350004250VS-1051	**3.500**	4.250	0.375	1.375	64.42
V0350004500VS-1031	**3.500**	4.500	0.500	1.500	68.83
V0350005000VS-1031*	**3.500**	5.000	0.750	1.500	96.84
V0350005000VS-1041*	**3.500**	5.000	0.750	2.250	112.94
V0375004250VS-1041*	**3.750**	4.250	0.250	0.937	27.93
V0375004250VS-1231	**3.750**	4.250	0.250	1.000	36.51
V0375004375VS-1031*	**3.750**	4.375	0.312	0.875	34.77
V0375004375VS-1221	**3.750**	4.375	0.312	1.000	41.72
V0375004500VS-1221	**3.750**	4.500	0.375	1.187	49.80
V0375004500VS-1231	**3.750**	4.500	0.375	1.375	57.65
V0400004500VS-1231	**4.000**	4.500	0.250	1.000	35.14
V0400004500VS-1241	**4.000**	4.500	0.250	1.187	40.24
V0400004750VS-1221	**4.000**	4.750	0.375	1.187	55.65

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0400004875VS-1031	**4.000**	4.875	0.437	1.125	88.56
V0400004875VS-1041*	**4.000**	4.875	0.437	1.312	100.58
V0400004875VS-1061*	**4.000**	4.875	0.437	1.750	124.60
V0400005000VS-1121*	**4.000**	5.000	0.500	1.187	57.62
V0400005000VS-1221	**4.000**	5.000	0.500	1.437	73.15
V0406204812VS-1031	**4.062**	4.812	0.375	1.000	55.04
V0425004750VS-1051	**4.250**	4.750	0.250	1.062	43.20
V0425004750VS-1341*	**4.250**	4.750	0.250	1.375	54.73
V0425005000VS-1031	**4.250**	5.000	0.375	1.062	53.80
V0425005000VS-1051*	**4.250**	5.000	0.375	1.375	81.05
V0425005000VS-1061*	**4.250**	5.000	0.375	1.562	85.22
V0425005125VS-1051*	**4.250**	5.125	0.437	1.625	106.85
V0425005250VS-1041*	**4.250**	5.250	0.500	1.625	167.55
V0437504875VS-1051*	**4.375**	4.875	0.250	0.937	43.08
V0450005000VS-1041	**4.500**	5.000	0.250	0.937	36.42
V0450005000VS-1221*	**4.500**	5.000	0.250	0.937	42.43
V0450005000VS-1051	**4.500**	5.000	0.250	1.062	42.47
V0450005125VS-1061*	**4.500**	5.125	0.312	1.375	150.41
V0450005250VS-1121*	**4.500**	5.250	0.375	1.000	46.93
V0450005250VS-1061*	**4.500**	5.250	0.375	1.375	77.41
V0450005375VS-1041	**4.500**	5.375	0.437	1.312	236.45
V0450005500VS-1031*	**4.500**	5.500	0.500	1.250	78.04
V0475005250VS-1041	**4.750**	5.250	0.250	0.875	36.22
V0475005250VS-1051*	**4.750**	5.250	0.250	1.032	42.56
V0475005500VS-1221	**4.750**	5.500	0.375	1.187	67.43
V0475005500VS-1051*	**4.750**	5.500	0.375	1.375	78.68
V0475005625VS-1051*	**4.750**	5.625	0.437	1.500	112.30
V0500005500VS-1221	**5.000**	5.500	0.250	0.875	36.30
V0500005500VS-1231	**5.000**	5.500	0.250	1.000	42.93
V0500005500VS-1241	**5.000**	5.500	0.250	1.187	49.55
V0500005500VS-1331*	**5.000**	5.500	0.250	1.187	48.69
V0500005625VS-1041*	**5.000**	5.625	0.312	1.000	53.31
V0500005750VS-1061*	**5.000**	5.750	0.375	1.625	99.06
V0500005875VS-1041*	**5.000**	5.875	0.437	1.312	85.72
V0500006000VS-1121	**5.000**	6.000	0.500	1.250	74.37
V0500006000VS-1231	**5.000**	6.000	0.500	1.750	118.58
V0512505625VS-1051*	**5.125**	5.625	0.250	1.000	41.24
V0512505625VS-1061*	**5.125**	5.625	0.250	1.125	46.16
V0525005750VS-1231*	**5.250**	5.750	0.250	1.250	37.95
V0525006000VS-1041	**5.250**	6.000	0.375	1.187	72.12
V0525006250VS-1031*	**5.250**	6.250	0.500	1.250	124.46
V0537506250VS-1051*	**5.375**	6.250	0.437	1.500	150.97
V0550006000VS-1031	**5.500**	6.000	0.250	0.750	34.46
V0550006000VS-1051	**5.500**	6.000	0.250	1.000	50.19
V0550006250VS-1071*	**5.500**	6.250	0.375	1.750	117.98
V0550006500VS-1031*	**5.500**	6.500	0.500	1.250	96.78

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	d	D	C/S	H	
V0550006500VS-1051	**5.500**	6.500	0.500	1.750	112.73
V0570006450VS-1211*	**5.700**	6.450	0.375	1.062	105.63
V0575006250VS-1051*	**5.750**	6.250	0.250	1.000	56.17
V0575006250VS-1061*	**5.750**	6.250	0.250	1.125	63.78
V0575006375VS-1221	**5.750**	6.375	0.312	1.000	101.04
V0575006500VS-1031*	**5.750**	6.500	0.375	1.000	91.23
V0575006500VS-1051*	**5.750**	6.500	0.375	1.375	117.74
V0575006750VS-1051	**5.750**	6.750	0.500	1.750	142.13
V0600006500VS-1231	**6.000**	6.500	0.250	1.000	49.94
V0600006500VS-1321*	**6.000**	6.500	0.250	1.000	53.40
V0600006500VS-1241	**6.000**	6.500	0.250	1.125	57.89
V0600006500VS-1331	**6.000**	6.500	0.250	1.125	112.56
V0600006750VS-1121	**6.000**	6.750	0.375	1.062	95.88
V0600007000VS-1041	**6.000**	7.000	0.500	1.437	117.12
V0600007250VS-1041*	**6.000**	7.250	0.625	1.812	160.63
V0625006875VS-1231*	**6.250**	6.875	0.312	1.250	68.72
V0625007000VS-1041*	**6.250**	7.000	0.375	1.250	100.87
V0650007000VS-1141	**6.500**	7.000	0.250	1.062	81.75
V0650007000VS-1331*	**6.500**	7.000	0.250	1.375	53.46
V0650007250VS-1051*	**6.500**	7.250	0.375	1.375	119.48
V0650007500VS-1041	**6.500**	7.500	0.500	1.437	131.47
V0675007250VS-1051	**6.750**	7.250	0.250	1.000	155.52
V0675007375VS-1221	**6.750**	7.375	0.312	1.000	137.00
V0675007375VS-1231	**6.750**	7.375	0.312	1.250	91.44
V0675007500VS-1041*	**6.750**	7.500	0.375	1.187	112.36
V0700007500VS-1231*	**7.000**	7.500	0.250	1.000	56.96
V0700007500VS-1241	**7.000**	7.500	0.250	1.125	66.73
V0700007500VS-1331	**7.000**	7.500	0.250	1.125	127.74
V0700008000VS-1031	**7.000**	8.000	0.500	1.375	134.84

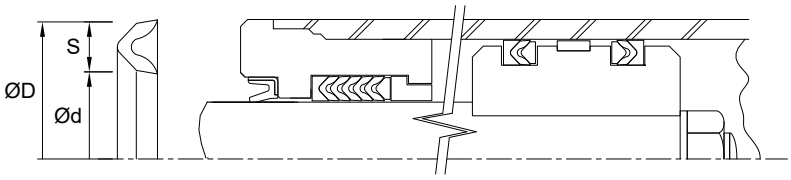
Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0700008000VS-1331*	**7.000**	8.000	0.500	2.187	197.10
V0725007750VS-1231*	**7.250**	7.750	0.250	1.000	96.58
V0750008000VS-1231	**7.500**	8.000	0.250	1.062	70.90
V0750008000VS-1331*	**7.500**	8.000	0.250	1.375	86.46
V0750008125VS-1231*	**7.500**	8.125	0.312	1.125	99.70
V0790508543VS-1221*	**7.905**	8.543	0.319	O/R	309.48
V0800008500VS-1121*	**8.000**	8.500	0.250	0.750	71.71
V0800008500VS-1231	**8.000**	8.500	0.250	1.000	64.72
V0800008750VS-1041	**8.000**	8.750	0.375	1.187	296.92
V0800009000VS-1061	**8.000**	9.000	0.500	2.000	436.04
V0812508625VS-1151*	**8.125**	8.625	0.250	1.062	78.67
V0825008750VS-1061*	**8.250**	8.750	0.250	1.187	119.39
V0850009000VS-1231*	**8.500**	9.000	0.250	1.000	175.14
V0850009000VS-1331*	**8.500**	9.000	0.250	1.375	189.86
V0875009375VS-1061*	**8.750**	9.375	0.312	1.312	206.32
V0900009500VS-1071*	**9.000**	9.500	0.250	1.250	214.34
V0900010000VS-1051*	**9.000**	10.000	0.500	1.812	357.25
V0950010000VS-1051	**9.500**	10.000	0.250	1.062	250.91
V0950010000VS-1331*	**9.500**	10.000	0.250	1.375	241.56
V0950010500VS-1051*	**9.500**	10.500	0.500	1.750	546.12
V1050011000VS-1051*	**10.500**	11.000	0.250	1.000	355.19
V1050011500VS-1051*	**10.500**	11.500	0.500	1.875	447.44
V1100012000VS-1051	**11.000**	12.000	0.500	1.875	578.12
V1200013000VS-1051*	**12.000**	13.000	0.500	1.875	567.47
V1200013250VS-1231	**12.000**	13.250	0.625	2.370	1112.19
V1300014000VS-1051*	**13.000**	14.000	0.500	1.875	705.32
V1400015000VS-1051*	**14.000**	15.000	0.500	1.875	814.40
V1500016000VS-1051*	**15.000**	16.000	0.500	1.875	826.13

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MV6225 - Vee Packings - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile	-40°F to +250°F (-40°C to +121°C)	≤1250 psi (≤85 bar)	<3 ft/s (0.9 m/s)
PTFE	-100°F to +400°F (-73°C to +204°C)	≤5000 psi (≤345 bar)	<12 ft/s (3.7 m/s)



This short profile V is used in assemblies for pneumatic and hydraulic applications. Normally, they are stacked together or in combination of nitrile and PTFE of the same profile.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
MV6225-01*	**0.125**	0.500	0.187	2.80
MV6225-02*	**0.187**	0.562	0.187	12.30
MV6225-03*	**0.250**	0.625	0.187	2.80
MV6225-04	**0.312**	0.687	0.187	2.96
MV6225-05*	**0.375**	0.750	0.187	2.80
MV6225-06*	**0.437**	0.812	0.187	3.32
MV6225-07*	**0.500**	0.875	0.187	3.00
MV6225-08*	**0.250**	0.750	0.250	3.04
MV6225-09*	**0.312**	0.812	0.250	3.07
MV6225-10*	**0.375**	0.875	0.250	3.13
MV6225-11*	**0.437**	0.937	0.250	10.30
MV6225-12*	**0.500**	1.000	0.250	3.67
MV6225-13*	**0.562**	1.062	0.250	3.28
MV6225-14	**0.625**	1.125	0.250	5.54
MV6225-15*	**0.687**	1.187	0.250	3.34
MV6225-16*	**0.750**	1.250	0.250	3.74
MV6225-16/T*	**0.750**	1.250	0.250	16.76
MV6225-17*	**0.812**	1.312	0.250	3.56
MV6225-18*	**0.875**	1.375	0.250	3.48
MV6225-19*	**0.937**	1.437	0.250	3.92
MV6225-20	**1.000**	1.500	0.250	4.09
MV6225-20/T*	**1.000**	1.500	0.250	15.86
MV6225-21*	**1.062**	1.562	0.250	4.10

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
MV6225-22*	**1.125**	1.625	0.250	4.20
MV6225-23*	**1.187**	1.687	0.250	4.24
MV6225-24*	**1.250**	1.750	0.250	8.35
MV6225-24/T*	**1.250**	1.750	0.250	11.34
MV6225-25*	**1.250**	1.875	0.312	7.73
MV6225-26*	**1.375**	2.000	0.312	7.32
MV6225-26/T*	**1.375**	2.000	0.312	21.74
MV6225-27	**1.500**	2.125	0.312	4.64
MV6225-27/T*	**1.500**	2.125	0.312	12.14
MV6225-28*	**1.625**	2.250	0.312	4.91
MV6225-29*	**1.750**	2.375	0.312	10.88
MV6225-29/T	**1.750**	2.375	0.312	21.40
MV6225-30*	**1.875**	2.500	0.312	5.76
MV6225-31*	**2.000**	2.625	0.312	13.04
MV6225-31/T*	**2.000**	2.625	0.312	18.19
MV6225-32*	**2.125**	2.750	0.312	8.86
MV6225-32/T*	**2.125**	2.750	0.312	22.90
MV6225-33*	**2.250**	2.875	0.312	8.95
MV6225-34*	**2.375**	3.000	0.312	6.41
MV6225-35*	**2.500**	3.125	0.312	12.88
MV6225-35/T*	**2.500**	3.125	0.312	38.68
MV6225-36*	**2.500**	3.250	0.375	7.61
MV6225-37*	**2.625**	3.375	0.375	5.17

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Vee Packings series - NBR 80A/PTFE

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
MV6225-38*	**2.750**	3.500	0.375	11.21
MV6225-39*	**2.875**	3.625	0.375	10.08
MV6225-40*	**3.000**	3.750	0.375	10.00
MV6225-40/T*	**3.000**	3.750	0.375	55.72
MV6225-41*	**3.125**	3.875	0.375	11.47
MV6225-42*	**3.250**	4.000	0.375	11.90
MV6225-43*	**3.375**	4.125	0.375	13.98
MV6225-44*	**3.500**	4.250	0.375	13.22
MV6225-45*	**3.625**	4.375	0.375	14.57
MV6225-46*	**3.750**	4.500	0.375	14.39
MV6225-47*	**3.875**	4.625	0.375	15.96
MV6225-48*	**3.875**	4.750	0.437	23.41
MV6225-49*	**4.000**	5.000	0.500	45.76
MV6225-50*	**4.250**	5.125	0.437	21.54
MV6225-50/T*	**4.250**	5.125	0.437	78.17
MV6225-51*	**4.500**	5.375	0.437	18.38
MV6225-52*	**4.750**	5.625	0.437	21.64
MV6225-53*	**5.000**	5.875	0.437	21.92

Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
MV6225-54*	**5.250**	6.125	0.437	22.86
MV6225-55*	**5.500**	6.375	0.437	24.71
MV6225-56*	**5.500**	6.500	0.500	26.32
MV6225-57*	**5.750**	6.750	0.500	23.72
MV6225-58*	**6.000**	7.000	0.500	27.13
MV6225-59*	**6.250**	7.250	0.500	28.12
MV6225-60*	**6.500**	7.500	0.500	29.08
MV6225-61*	**6.750**	7.750	0.500	43.94
MV6225-62*	**7.000**	8.000	0.500	45.37
MV6225-63*	**7.250**	8.250	0.500	46.78
MV6225-64*	**7.500**	8.500	0.500	47.27
MV6225-66*	**8.000**	9.000	0.500	48.22
MV6225-66/T*	**8.000**	9.000	0.500	429.00
MV6225-67*	**8.500**	9.500	0.500	49.34
MV6225-68	**9.000**	10.000	0.500	50.40
MV6225-68/T*	**9.000**	10.000	0.500	215.46
MV6225-70*	**10.000**	11.000	0.500	69.67
MV6225-76*	**13.000**	14.000	0.500	88.01

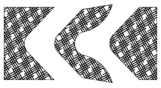
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

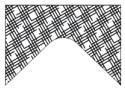


Vee Coil - Vee packings - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric	-40°F to +230°F (-40°C to +110°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)





FEMALE (F)



VEE (V)



MALE (M)

Typically supplied in coil form, this type of vee-packing can be pre-split to almost any diameter and stack height requirement. They are available in intermediate, male and female profiles and in a variety of cross-sectional sizes to insure quick turnaround time.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Packing Dimensions			$
	Section	Mandrel	h	
VC00250F-02*	**0.250**	2.000	0.250	54.93
VC00250F-04*	**0.250**	4.000	0.250	54.93
VC00250M-02*	**0.250**	2.000	0.171	25.16
VC00250M-04*	**0.250**	4.000	0.171	25.16
VC00250V-02*	**0.250**	2.000	0.109	27.94
VC00250V-04*	**0.250**	4.000	0.109	27.94
VC00312F-02*	**0.312**	2.000	0.313	58.23
VC00312F-05*	**0.312**	5.000	0.313	58.23
VC00312M-02*	**0.312**	2.000	0.234	26.55
VC00312M-05*	**0.312**	5.000	0.234	26.55
VC00312V-02*	**0.312**	2.000	0.172	31.96
VC00312V-05*	**0.312**	5.000	0.172	31.96
VC00375F-03*	**0.375**	3.000	0.375	65.07
VC00375F-06	**0.375**	6.000	0.375	65.07
VC00375M-03*	**0.375**	3.000	0.063	29.95
VC00375M-06	**0.375**	6.000	0.063	29.95
VC00375V-03*	**0.375**	3.000	0.188	33.18
VC00375V-06	**0.375**	6.000	0.188	33.18
VC00437F-04*	**0.437**	4.000	0.438	76.03
VC00437F-09*	**0.437**	9.000	0.438	75.78
VC00437M-04*	**0.437**	4.000	0.063	34.60
VC00437M-09*	**0.437**	9.000	0.063	32.66
VC00437V-04*	**0.437**	4.000	0.234	45.59

Ref.Number	Nominal Packing Dimensions			$
	Section	Mandrel	h	
VC00437V-09*	**0.437**	9.000	0.234	45.34
VC00500F-04*	**0.500**	4.000	0.532	72.53
VC00500F-09	**0.500**	9.000	0.532	72.53
VC00500M-04*	**0.500**	4.000	0.063	33.18
VC00500M-09	**0.500**	9.000	0.063	33.18
VC00500V-04*	**0.500**	4.000	0.234	41.82
VC00500V-09	**0.500**	9.000	0.234	41.82
VC00562F-05*	**0.562**	5.000	0.594	95.58
VC00562F-11*	**0.562**	11.000	0.594	95.34
VC00562M-05*	**0.562**	5.000	0.296	42.67
VC00562M-11*	**0.562**	11.000	0.296	42.67
VC00562V-05*	**0.562**	5.000	0.234	54.47
VC00562V-11*	**0.562**	11.000	0.234	54.68
VC00625F-05*	**0.625**	5.000	0.657	86.79
VC00625F-11	**0.625**	11.000	0.657	86.79
VC00625M-05*	**0.625**	5.000	0.063	38.35
VC00625M-11	**0.625**	11.000	0.063	38.35
VC00625V-05*	**0.625**	5.000	0.063	48.79
VC00625V-11	**0.625**	11.000	0.281	48.79
VC00750F-09*	**0.750**	9.000	0.781	101.61
VC00750F-13	**0.750**	13.000	0.781	101.61
VC00750F-18	**0.750**	18.000	0.781	O/R
VC00750F-24	**0.750**	24.000	0.781	101.61

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Packing Dimensions			$
	Section	Mandrel	h	
VC00750M-09*	**0.750**	9.000	0.063	46.57
VC00750M-13	**0.750**	13.000	0.063	46.57
VC00750M-18	**0.750**	18.000	0.063	O/R
VC00750M-24	**0.750**	24.000	0.063	46.57
VC00750V-09*	**0.750**	9.000	0.328	59.13
VC00750V-13	**0.750**	13.000	0.328	59.13
VC00750V-18	**0.750**	18.000	0.328	O/R
VC00750V-24	**0.750**	24.000	0.328	59.13
VC00875F-11*	**0.875**	11.000	0.938	137.81
VC00875F-16*	**0.875**	16.000	0.938	137.81
VC00875F-24	**0.875**	24.000	0.938	137.81
VC00875M-11*	**0.875**	11.000	0.063	62.95
VC00875M-16*	**0.875**	16.000	0.063	62.95

Ref.Number	Nominal Packing Dimensions			$
	Section	Mandrel	h	
VC00875M-24	**0.875**	24.000	0.063	62.95
VC00875V-11*	**0.875**	11.000	0.375	73.08
VC00875V-16*	**0.875**	16.000	0.375	73.08
VC00875V-24	**0.875**	24.000	0.375	73.08
VC01000F-13*	**1.000**	13.000	1.062	173.45
VC01000F-18*	**1.000**	18.000	1.062	173.45
VC01000F-24*	**1.000**	24.000	1.062	173.45
VC01000M-13	**1.000**	13.000	0.063	79.16
VC01000M-18*	**1.000**	18.000	0.063	79.16
VC01000M-24*	**1.000**	24.000	0.063	79.16
VC01000V-13	**1.000**	13.000	0.406	91.75
VC01000V-18*	**1.000**	18.000	0.406	91.75
VC01000V-24*	**1.000**	24.000	0.406	91.75

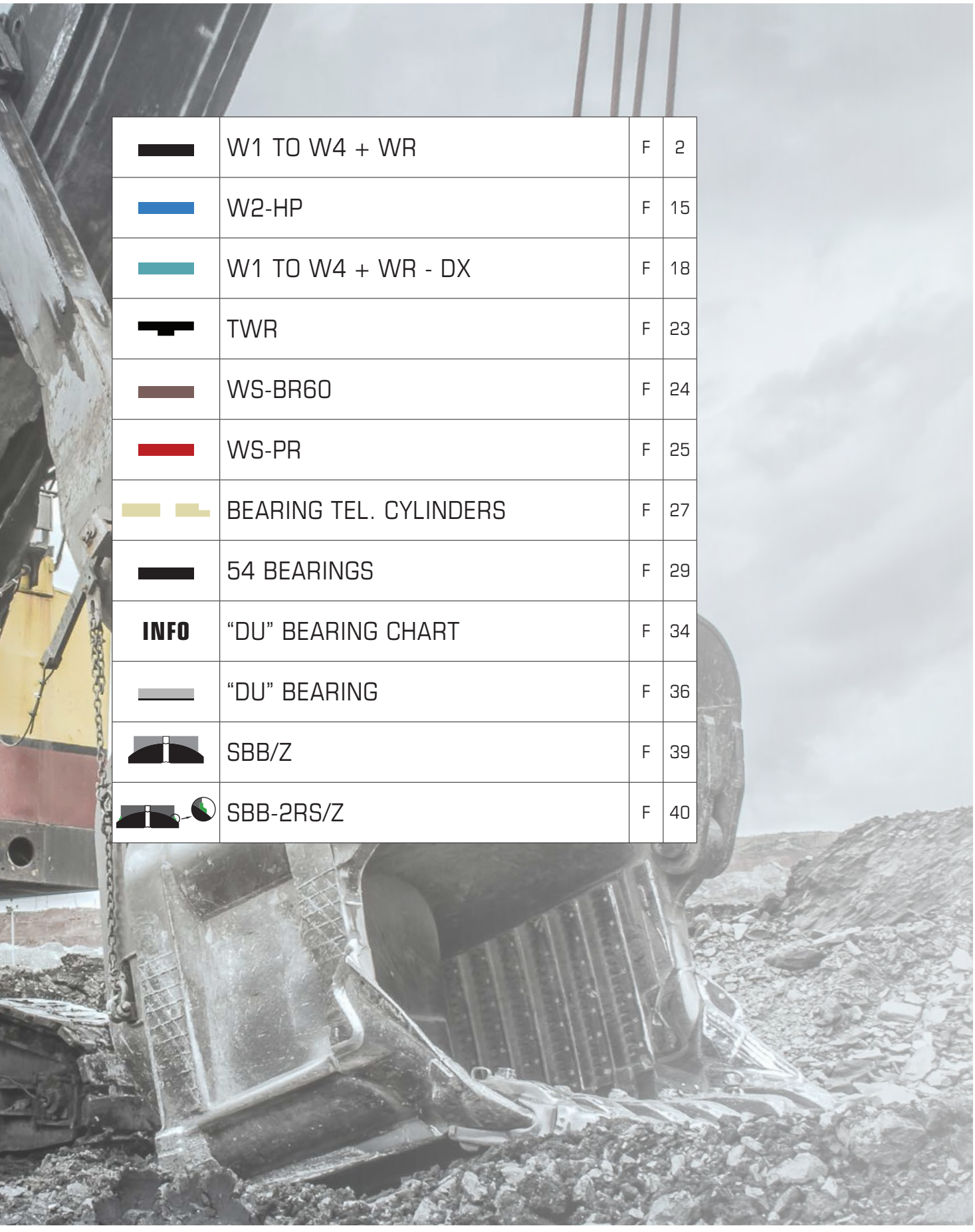
OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace, it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request, please do not hesitate to contact us and we will do our best to help you locate the required part.





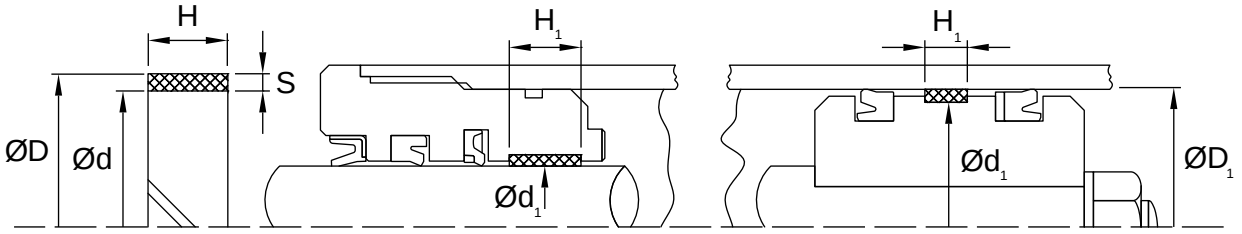


	W1 TO W4 + WR	F	2
	W2-HP	F	15
	W1 TO W4 + WR - DX	F	18
	TWR	F	23
	WS-BR60	F	24
	WS-PR	F	25
	BEARING TEL. CYLINDERS	F	27
	54 BEARINGS	F	29
INFO	“DU” BEARING CHART	F	34
	“DU” BEARING	F	36
	SBB/Z	F	39
	SBB-2RS/Z	F	40

Wear Ring - W1 to W4 + WR - Inch



Standard Material	Temperature Range
GF.Nylon	-40°F to +275°F (-40°C to +135°C)
BR.PTFE	-148°F to +392°F (-100°C to +200°C)



The **W-style** wear-rings are primarily used on hydraulic/pneumatic cylinder pistons and rod glands. Their main function is to prevent metal-to-metal scoring as well as insuring that reciprocating parts are properly centered. Usually manufactured our of glass-filled nylon, other popular materials are also available.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Formula for calculating rod wear ring grooves

D1 Min.Groove Dia. = d Max.Rod Dia.
+ 2 (Max.Wear Ring C/S)
D1 tolerance = **.003/-.000**

d1 Min.Throat Dia. =
[D1 - 2(Min.Wear RingC/S)]
+ 2(Min. Radial Clearance of **.005**.
d1 tolerance = **+.003/-.000**

H1 Groove Length = Actual Part Height **+.010**
H1 tolerance = **+.010/-.000**

NOTES:
1. Rod throat diameter d1 is a new diameter over and above the diameter which is normally called out for the rod seal. Additional diameter clearance is required as noted for the wear ring to function properly. Since a larger clearance gap results. consideration as to the rod seal compounds must be made to avoid rod seal extrusion.

2. Also consider wear ring groove design for small diameter sizes. Installation problems on small sizes will occur if the groove design is not compensated.

Formula for calculating piston wear ring Grooves

d1 Max.Groove Dia. = D1 Min.Bore Dia.
- 2 (Max. Wear Ring C/S)
d1 tolerance = **+.000/-.005**

P Max.Piston Dia. = [d1 Min.Groove Dia.
+ 2(Min.Wear Ring C/S)]
- 2(Min. Radial Clearance of **005**).

P tolerance = +**.000/-.005**
H1 Groove Length = Actual Part Height **+.010**
H1 tolerance = **+.010/-.000**

NOTES:
1. The piston diameter P will not correspond to diameters called out for the piston seals. Additional clearances are required for wear ring use. Be sure the entire outside diameter of the piston is no larger than P. Be sure the piston seal compound is considered to prevent extrusion of the piston seal with the new increased diameter clearance.

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.058" - Cross Section - 0.058"						
WR016250830-058	**1.625**	**1.500**	1.625	0.830	0.058	16.66
WR016250980-058	**1.625**	**1.500**	1.625	0.980	0.058	16.89
WR016250980-058WAT*	**1.625**	**0.980**	1.625	0.980	0.058	14.24
WR018750980-058	**1.875**	**1.750**	1.875	0.980	0.058	35.02
WR021250980-058	**2.125**	**2.000**	2.125	0.980	0.058	36.02
WR022500980-058	**2.250**	**2.125**	2.250	0.980	0.058	40.93
WR023750980-058	**2.375**	**2.250**	2.375	0.980	0.058	52.70
WR025001260-058	**2.500**	**2.375**	2.500	1.260	0.058	25.75
WR026250980-058	**2.625**	**2.500**	2.625	0.980	0.058	51.15
WR026251250-058	**2.625**	**2.500**	2.625	1.250	0.058	22.57
WR026251250-058WAT*	**2.625**	**1.250**	2.625	1.250	0.058	58.62
WR026251690-058	**2.625**	**1.690**	2.625	1.690	0.058	74.85
WR027500980-058	**2.750**	**0.980**	2.750	0.980	0.058	26.00
WR028751000-058	**2.875**	**2.750**	2.875	1.000	0.058	63.41
WR028751260-058	**2.875**	**2.750**	2.875	1.260	0.058	53.22
WR028751570-058	**2.875**	**2.750**	2.875	1.570	0.058	74.96
WR028751810-058*	**2.875**	**2.750**	2.875	1.810	0.058	33.70
WR031250980-058	**3.125**	**3.000**	3.125	0.980	0.058	22.58
WR031251260-058	**3.125**	**3.000**	3.125	1.260	0.058	49.59
WR031251570-058	**3.125**	**3.000**	3.125	1.570	0.058	47.48
WR031251650-058	**3.125**	**3.000**	3.125	1.650	0.058	59.70
WR033751120-058	**3.375**	**3.250**	3.375	1.120	0.058	43.32
WR036251060-058	**3.625**	**3.500**	3.625	1.060	0.058	71.70
WR036251880-058	**3.625**	**3.500**	3.625	1.880	0.058	60.35
1/16" - Cross Section - 0.062"						
W1006250500*	**0.625**	**0.500**	0.625	0.500	0.062	10.18
W1008750375*	**0.875**	**0.750**	0.875	0.375	0.062	8.35
W1008750500	**0.875**	**0.750**	0.875	0.500	0.062	19.31
W1010000500*	**1.000**	**0.875**	1.000	0.500	0.062	13.76
W1011250375	**1.125**	**1.000**	1.125	0.375	0.062	11.87
W1011250500	**1.125**	**1.000**	1.125	0.500	0.062	11.87
W1012500500	**1.250**	**1.125**	1.250	0.500	0.062	21.99
W1013750500	**1.375**	**1.250**	1.375	0.500	0.062	15.44
W1013750980	**1.375**	**1.250**	1.375	0.980	0.062	26.83
W1015000312*	**1.500**	**1.375**	1.500	0.312	0.062	15.29
W1015000375	**1.500**	**1.375**	1.500	0.375	0.062	16.70
W1015000500	**1.500**	**1.375**	1.500	0.500	0.062	12.31
W1016250500	**1.625**	**1.500**	1.625	0.500	0.062	14.77
W1016250625	**1.625**	**1.500**	1.625	0.625	0.062	16.72
W1016251000	**1.625**	**1.500**	1.625	1.000	0.062	10.80
W1016251250	**1.625**	**1.500**	1.625	1.250	0.062	32.44
W1016252090*	**1.625**	**1.500**	1.625	2.090	0.062	64.29
W1016500500*	**1.650**	**1.525**	1.650	0.500	0.062	13.52

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/16" - Cross Section - 0.062"						
W1016700500	**1.670**	**1.545**	1.670	0.500	0.062	11.64
W1017500500	**1.750**	**1.625**	1.750	0.500	0.062	23.31
W1018751000	**1.875**	**1.750**	1.875	1.000	0.062	10.45
W1020000260	**2.000**	**1.875**	2.000	0.260	0.062	33.96
W1020000312	**2.000**	**1.875**	2.000	0.312	0.062	15.40
W1020000730	**2.000**	**1.875**	2.000	0.730	0.062	38.52
W1020000980	**2.000**	**1.875**	2.000	0.980	0.062	50.62
W1021250750	**2.125**	**2.000**	2.125	0.750	0.062	31.23
W1021250980	**2.125**	**2.000**	2.125	0.980	0.062	9.87
W1021251000	**2.125**	**2.000**	2.125	1.000	0.062	13.25
W1021251250	**2.125**	**2.000**	2.125	1.250	0.062	48.47
W1021251570	**2.125**	**2.000**	2.125	1.570	0.062	66.68
W1022500370*	**2.250**	**2.125**	2.250	0.370	0.062	80.43
W1022500730*	**2.250**	**2.125**	2.250	0.730	0.062	79.25
W1022501000*	**2.250**	**2.125**	2.250	1.000	0.062	55.87
W1023751000	**2.375**	**2.250**	2.375	1.000	0.062	41.93
W1023751180*	**2.375**	**2.250**	2.375	1.180	0.062	51.04
W1023751480	**2.375**	**2.250**	2.375	1.480	0.062	41.06
W1023751500	**2.375**	**2.250**	2.375	1.500	0.062	20.21
W1025000312	**2.500**	**2.375**	2.500	0.312	0.062	16.55
W1025000500	**2.500**	**2.375**	2.500	0.500	0.062	26.72
W1026250500	**2.625**	**2.500**	2.625	0.500	0.062	32.24
W1026251000	**2.625**	**2.500**	2.625	1.000	0.062	18.68
W1026251480	**2.625**	**2.500**	2.625	1.480	0.062	25.79
W1026251500	**2.625**	**2.500**	2.625	1.500	0.062	19.78
W1027500500*	**2.750**	**2.625**	2.750	0.500	0.062	41.83
W1027500980*	**2.750**	**2.625**	2.750	0.980	0.062	22.70
W1027501000	**2.750**	**2.625**	2.750	1.000	0.062	33.91
W1028750975*	**2.875**	**2.750**	2.875	0.975	0.062	29.12
W1028751500	**2.875**	**2.750**	2.875	1.500	0.062	18.74
W1028751790*	**2.875**	**2.750**	2.875	1.790	0.062	83.08
W1031250500	**3.125**	**3.000**	3.125	0.500	0.062	29.71
W1031251240*	**3.125**	**3.000**	3.125	1.240	0.062	32.84
W1031251480	**3.125**	**3.000**	3.125	1.480	0.062	37.45
W1031251500	**3.125**	**3.000**	3.125	1.500	0.062	20.82
W1031251562*	**3.125**	**3.000**	3.125	1.562	0.062	20.82
W1031870312*	**3.187**	**3.062**	3.187	0.312	0.062	21.28
W1032500312	**3.250**	**3.125**	3.250	0.312	0.062	16.88
W1033751120*	**3.375**	**3.250**	3.375	1.120	0.062	67.15
W1033751730	**3.375**	**3.250**	3.375	1.730	0.062	115.21
W1033751875*	**3.375**	**3.250**	3.375	1.875	0.062	96.63
W1036251480*	**3.625**	**3.500**	3.625	1.480	0.062	25.96
W1038751570	**3.875**	**3.750**	3.875	1.570	0.062	124.88
W1040000312	**4.000**	**3.875**	4.000	0.312	0.062	29.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/16" - Cross Section - 0.062"						
W1040000312/BR60*	**4.000**	**3.875**	4.000	0.312	0.062	87.09
W1050000437	**5.000**	**4.875**	5.000	0.437	0.062	31.54
W1050000437/BR60*	**5.000**	**4.875**	5.000	0.437	0.062	123.60
W1060000437	**6.000**	**5.875**	6.000	0.437	0.062	36.33
W1060000437/BR60*	**6.000**	**5.875**	6.000	0.437	0.062	150.77
5/64" - Cross Section - 0.078"						
WR012500500-078	**1.250**	**1.094**	1.250	0.500	0.078	18.12
WR016600625-078	**1.660**	**1.503**	1.660	0.625	0.078	19.37
0.090" - Cross Section - 0.090"						
WR020000110-090-CG25	**2.000**	**0.110**	2.000	0.110	0.090	35.40
3/32" - Cross Section - 0.094"						
WR012500187-094*	**1.250**	**1.062**	1.250	0.187	0.094	5.72
WR015000187-094	**1.500**	**1.312**	1.500	0.187	0.094	7.08
WR015000375-094	**1.500**	**1.312**	1.500	0.375	0.094	18.75
WR020000187-094*	**2.000**	**1.812**	2.000	0.187	0.094	7.08
WR020000375-094	**2.000**	**1.812**	2.000	0.375	0.094	19.30
WR025000375-094	**2.500**	**2.312**	2.500	0.375	0.094	20.52
WR025501500-094*	**2.550**	**2.362**	2.550	1.500	0.094	18.29
WR028501000-094*	**2.850**	**2.662**	2.850	1.000	0.094	19.94
WR032500375-094	**3.250**	**3.062**	3.250	0.375	0.094	21.47
WR033120625-094*	**3.312**	**3.125**	3.312	0.625	0.094	10.20
WR035000500-094	**3.500**	**3.312**	3.500	0.500	0.094	11.33
WR035000750-094	**3.500**	**3.312**	3.500	0.750	0.094	9.89
WR036250218-094*	**3.625**	**3.437**	3.625	0.218	0.094	13.52
WR039370218-094*	**3.937**	**3.750**	3.937	0.218	0.094	5.63
WR040000375-094	**4.000**	**3.812**	4.000	0.375	0.094	23.75
WR050000500-094	**5.000**	**4.812**	5.000	0.500	0.094	25.91
WR060000500-094*	**6.000**	**5.812**	6.000	0.500	0.094	26.69
WR080000375-094*	**8.000**	**7.812**	8.000	0.375	0.094	57.26
3/31" - Cross Section - 0.096"						
WR030000212-096*	**3.000**	**2.808**	3.000	0.212	0.096	5.37
WR032500212-096	**3.250**	**3.058**	3.250	0.212	0.096	20.72
WR036250212-096	**3.625**	**3.433**	3.625	0.212	0.096	13.52
0.098" - Cross Section - 0.098"						
WR020000190-098	**2.000**	**1.804**	2.000	0.190	0.098	6.66
WR026960500-098*	**2.696**	**2.500**	2.696	0.500	0.098	30.92
WR027002280-098	**2.700**	**2.500**	2.700	2.280	0.098	117.83
WR029501970-098	**2.950**	**2.750**	2.950	1.970	0.098	98.99
WR030000990-098	**3.000**	**2.800**	3.000	0.990	0.098	23.88

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.098" - Cross Section - 0.098"						
WR031961500-098*	**3.196**	**3.000**	3.196	1.500	0.098	42.19
WR032001180-098*	**3.200**	**3.000**	3.200	1.180	0.098	83.94
WR032501125-098*	**3.250**	**3.050**	3.250	1.125	0.098	91.05
WR034501610-098	**3.450**	**3.250**	3.450	1.610	0.098	81.21
WR034501970-098	**3.450**	**3.250**	3.450	1.970	0.098	91.91
WR034502760-098	**3.450**	**3.250**	3.450	2.760	0.098	132.78
WR037001770-098	**3.700**	**3.500**	3.700	1.770	0.098	148.61
WR037001880-098	**3.700**	**3.500**	3.700	1.880	0.098	56.27
WR037002360-098	**3.700**	**3.500**	3.700	2.360	0.098	104.16
WR039501215-098*	**3.750**	**3.950**	3.950	1.215	0.098	48.92
WR039502440-098	**3.950**	**3.750**	3.950	2.440	0.098	80.16
WR040000212-098	**4.000**	**3.800**	4.000	0.212	0.098	12.83
WR040001312-098*	**4.000**	**3.800**	4.000	1.312	0.098	82.04
WR042001312-098*	**4.200**	**4.000**	4.200	1.312	0.098	64.32
WR042001570-098	**4.200**	**4.000**	4.200	1.570	0.098	126.36
WR042001880-098*	**4.200**	**4.000**	4.200	1.880	0.098	94.99
WR042002560-098	**4.200**	**4.000**	4.200	2.560	0.098	106.40
WR044502360-098	**4.450**	**4.250**	4.450	2.360	0.098	118.91
WR047001970-098	**4.700**	**4.500**	4.700	1.970	0.098	49.34
WR049501970-098	**4.950**	**4.750**	4.950	1.970	0.098	149.97
WR050000500-098	**5.000**	**4.804**	5.000	0.500	0.098	30.75
WR052002520-098	**5.200**	**5.000**	5.200	2.520	0.098	148.61
WR054502500-098*	**5.450**	**5.250**	5.450	2.500	0.098	113.30
WR059501970-098	**5.950**	**5.750**	5.950	1.970	0.098	150.18
WR059503620-098*	**5.950**	**5.750**	5.950	3.620	0.098	224.96
WR062001960-098	**6.200**	**6.000**	6.200	1.960	0.098	108.54
WR067002270-098*	**6.700**	**6.500**	6.700	2.270	0.098	244.65
WR072002437-098	**7.200**	**7.000**	7.200	2.437	0.098	100.25
WR072003150-098	**7.200**	**7.000**	7.200	3.150	0.098	201.17
WR074502360-098	**7.450**	**7.250**	7.450	2.360	0.098	269.07
WR076963150-098*	**7.696**	**7.500**	7.696	3.150	0.098	168.45
WR082002950-098*	**8.200**	**8.000**	8.200	2.950	0.098	227.34
WR089502950-098*	**8.950**	**8.750**	8.950	2.950	0.098	269.65
1/10" - Cross Section - 0.100"						
WR020000220-100*	**2.000**	**N/A**	2.000	0.220	0.100	18.03
WR052003000-100*	**5.200**	**5.000**	5.200	3.000	0.100	163.97
WR052003000-100/BZ*	**5.200**	**5.000**	5.200	3.000	0.100	595.22
WR062003000-100/BZ	**6.200**	**6.000**	6.200	3.000	0.100	695.30
WR067003000-100/BZ	**6.700**	**6.500**	6.700	3.000	0.100	811.67
WR092003000-100/BZ	**9.200**	**9.000**	9.200	3.000	0.100	1339.02
0.116" - Cross Section - 0.116"						
WR039821500-116	**3.982**	**3.750**	3.982	1.500	0.116	52.58

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.116" - Cross Section - 0.116"						
WR075001485-116	**7.500**	**7.268**	7.500	1.485	0.116	71.09
1/8" - Cross Section - 0.125"						
W2010000375	**1.000**	**0.750**	1.000	0.375	0.125	6.00
W2010000500	**1.000**	**0.750**	1.000	0.500	0.125	5.72
W2010000625	**1.000**	**0.750**	1.000	0.625	0.125	6.01
W2011250375	**1.125**	**0.875**	1.125	0.375	0.125	6.00
W2011250500*	**1.125**	**0.875**	1.125	0.500	0.125	13.35
W2012500250	**1.250**	**1.000**	1.250	0.250	0.125	10.45
W2012500375	**1.250**	**1.000**	1.250	0.375	0.125	6.00
W2012500500	**1.250**	**1.000**	1.250	0.500	0.125	7.44
W2012500625	**1.250**	**1.000**	1.250	0.625	0.125	6.12
W2012500750	**1.250**	**1.000**	1.250	0.750	0.125	7.70
W2012501000*	**1.250**	**1.000**	1.250	1.000	0.125	9.32
W2013750500	**1.375**	**1.125**	1.375	0.500	0.125	7.33
W2013750750	**1.375**	**1.125**	1.375	0.750	0.125	7.55
W2013751000	**1.375**	**1.125**	1.375	1.000	0.125	9.32
W2015000250	**1.500**	**1.250**	1.500	0.250	0.125	4.59
W2015000375	**1.500**	**1.250**	1.500	0.375	0.125	6.31
W2015000500	**1.500**	**1.250**	1.500	0.500	0.125	6.01
W2015000625	**1.500**	**1.250**	1.500	0.625	0.125	6.31
W2015000750	**1.500**	**1.250**	1.500	0.750	0.125	8.76
W2015001000	**1.500**	**1.250**	1.500	1.000	0.125	14.30
W2016250375	**1.625**	**1.375**	1.625	0.375	0.125	8.40
W2016250500	**1.625**	**1.375**	1.625	0.500	0.125	6.18
W2017500250	**1.750**	**1.500**	1.750	0.250	0.125	6.18
W2017500375	**1.750**	**1.500**	1.750	0.375	0.125	10.87
W2017500500	**1.750**	**1.500**	1.750	0.500	0.125	6.18
W2017500625	**1.750**	**1.500**	1.750	0.625	0.125	8.22
W2017500750	**1.750**	**1.500**	1.750	0.750	0.125	7.50
W2017501000	**1.750**	**1.500**	1.750	1.000	0.125	9.00
W2018750500	**1.875**	**1.625**	1.875	0.500	0.125	6.54
W2018750750	**1.875**	**1.625**	1.875	0.750	0.125	6.70
W2018751000*	**1.875**	**1.625**	1.875	1.000	0.125	9.50
W2020000160	**2.000**	**1.750**	2.000	0.160	0.125	26.97
W2020000250	**2.000**	**1.750**	2.000	0.250	0.125	5.20
W2020000250/T	**2.000**	**1.750**	2.000	0.250	0.125	42.52
W2020000312	**2.000**	**1.750**	2.000	0.312	0.125	12.68
W2020000375	**2.000**	**1.750**	2.000	0.375	0.125	6.30
W2020000500	**2.000**	**1.750**	2.000	0.500	0.125	6.30
W2020000625	**2.000**	**1.750**	2.000	0.625	0.125	6.87
W2020000750	**2.000**	**1.750**	2.000	0.750	0.125	7.00
W2020001000	**2.000**	**1.750**	2.000	1.000	0.125	12.20
W2020001250	**2.000**	**1.750**	2.000	1.250	0.125	25.84

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2020001500	**2.000**	**1.750**	2.000	1.500	0.125	51.77
W2021250375	**2.125**	**1.875**	2.125	0.375	0.125	6.70
W2021250500	**2.125**	**1.875**	2.125	0.500	0.125	7.40
W2021250750*	**2.125**	**1.875**	2.125	0.750	0.125	6.40
W2021870260*	**2.187**	**1.937**	2.187	0.260	0.125	6.00
W2021871000*	**2.187**	**1.937**	2.187	1.000	0.125	12.96
W2022500187	**2.250**	**2.000**	2.250	0.187	0.125	4.44
W2022500250	**2.250**	**2.000**	2.250	0.250	0.125	5.30
W2022500312*	**2.250**	**2.000**	2.250	0.312	0.125	6.30
W2022500375	**2.250**	**2.000**	2.250	0.375	0.125	6.30
W2022500500	**2.250**	**2.000**	2.250	0.500	0.125	6.30
W2022500625	**2.250**	**2.000**	2.250	0.625	0.125	6.70
W2022500750	**2.250**	**2.000**	2.250	0.750	0.125	6.60
W2022500875*	**2.250**	**2.000**	2.250	0.875	0.125	12.57
W2022500890	**2.250**	**2.000**	2.250	0.890	0.125	28.19
W2022501000	**2.250**	**2.000**	2.250	1.000	0.125	16.50
W2022501250	**2.250**	**2.000**	2.250	1.250	0.125	72.25
W2022501500	**2.250**	**2.000**	2.250	1.500	0.125	25.06
W2023750500	**2.375**	**2.125**	2.375	0.500	0.125	6.60
W2023750750	**2.375**	**2.125**	2.375	0.750	0.125	8.00
W2025000160	**2.500**	**2.250**	2.500	0.160	0.125	16.82
W2025000187	**2.500**	**2.250**	2.500	0.187	0.125	9.18
W2025000250	**2.500**	**2.250**	2.500	0.250	0.125	6.18
W2025000250BR40*	**2.500**	**2.250**	2.500	0.250	0.125	37.79
W2025000250BR60	**2.500**	**2.250**	2.500	0.250	0.125	37.79
W2025000312	**2.500**	**2.250**	2.500	0.312	0.125	6.00
W2025000375	**2.500**	**2.250**	2.500	0.375	0.125	6.60
W2025000500	**2.500**	**2.250**	2.500	0.500	0.125	6.60
W2025000500BR60*	**2.500**	**2.250**	2.500	0.500	0.125	31.95
W2025000625	**2.500**	**2.250**	2.500	0.625	0.125	7.10
W2025000740*	**2.500**	**2.250**	2.500	0.740	0.125	14.50
W2025000750	**2.500**	**2.250**	2.500	0.750	0.125	8.00
W2025000875*	**2.500**	**2.250**	2.500	0.875	0.125	13.28
W2025001000	**2.500**	**2.250**	2.500	1.000	0.125	8.80
W2025001250	**2.500**	**2.250**	2.500	1.250	0.125	32.02
W2025001500	**2.500**	**2.250**	2.500	1.500	0.125	22.04
W2026250500	**2.625**	**2.375**	2.625	0.500	0.125	11.70
W2026250625*	**2.625**	**2.375**	2.625	0.625	0.125	7.30
W2026250750*	**2.625**	**2.375**	2.625	0.750	0.125	8.20
W2026251000	**2.625**	**2.375**	2.625	1.000	0.125	35.30
W2027500250	**2.750**	**2.500**	2.750	0.250	0.125	13.40
W2027500312	**2.750**	**2.500**	2.750	0.312	0.125	6.90
W2027500375	**2.750**	**2.500**	2.750	0.375	0.125	6.90
W2027500500	**2.750**	**2.500**	2.750	0.500	0.125	6.90

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2027500625	**2.750**	**2.500**	2.750	0.625	0.125	7.30
W2027500750	**2.750**	**2.500**	2.750	0.750	0.125	8.33
W2027500940	**2.750**	**2.500**	2.750	0.940	0.125	21.19
W2027501000	**2.750**	**2.500**	2.750	1.000	0.125	8.70
W2027501250	**2.750**	**2.500**	2.750	1.250	0.125	18.41
W2027501500	**2.750**	**2.500**	2.750	1.500	0.125	25.20
W2027501750	**2.750**	**2.500**	2.750	1.750	0.125	62.05
W2027502000	**2.750**	**2.500**	2.750	2.000	0.125	30.69
W2028750500	**2.875**	**2.625**	2.875	0.500	0.125	11.50
W2028750750	**2.875**	**2.625**	2.875	0.750	0.125	13.40
W2028750875	**2.875**	**2.625**	2.875	0.875	0.125	24.10
W2028751000	**2.875**	**2.625**	2.875	1.000	0.125	8.80
W2030000138-CG25	**3.000**	**2.750**	3.000	0.138	0.125	30.64
W2030000160	**3.000**	**2.750**	3.000	0.160	0.125	32.40
W2030000250	**3.000**	**2.750**	3.000	0.250	0.125	6.10
W2030000312	**3.000**	**2.750**	3.000	0.312	0.125	6.60
W2030000375	**3.000**	**2.750**	3.000	0.375	0.125	6.80
W2030000500	**3.000**	**2.750**	3.000	0.500	0.125	6.80
W2030000570*	**3.000**	**2.750**	3.000	0.570	0.125	10.80
W2030000625	**3.000**	**2.750**	3.000	0.625	0.125	11.40
W2030000750	**3.000**	**2.750**	3.000	0.750	0.125	8.00
W2030000990*	**3.000**	**2.750**	3.000	0.990	0.125	26.20
W2030001000	**3.000**	**2.750**	3.000	1.000	0.125	7.69
W2030001250	**3.000**	**2.750**	3.000	1.250	0.125	34.97
W2030001500	**3.000**	**2.750**	3.000	1.500	0.125	23.70
W2030001562*	**3.000**	**2.750**	3.000	1.562	0.125	28.63
W2030620250*	**3.062**	**2.812**	3.062	0.250	0.125	12.40
W2031250500	**3.125**	**2.875**	3.125	0.500	0.125	6.93
W2031251000*	**3.125**	**2.875**	3.125	1.000	0.125	12.32
W2032500250	**3.250**	**3.000**	3.250	0.250	0.125	6.60
W2032500250BR60	**3.250**	**3.000**	3.250	0.250	0.125	29.28
W2032500312	**3.250**	**3.000**	3.250	0.312	0.125	6.70
W2032500375	**3.250**	**3.000**	3.250	0.375	0.125	7.00
W2032500375BR40*	**3.250**	**3.000**	3.250	0.375	0.125	48.08
W2032500500	**3.250**	**3.000**	3.250	0.500	0.125	7.00
W2032500625	**3.250**	**3.000**	3.250	0.625	0.125	8.00
W2032500750	**3.250**	**3.000**	3.250	0.750	0.125	8.00
W2032500750S	**3.250**	**3.000**	3.250	0.750	0.125	6.88
W2032501000	**3.250**	**3.000**	3.250	1.000	0.125	14.40
W2032501130	**3.250**	**3.000**	3.250	1.130	0.125	26.94
W2032501250	**3.250**	**3.000**	3.250	1.250	0.125	32.60
W2032501500	**3.250**	**3.000**	3.250	1.500	0.125	25.34
W2032501550*	**3.250**	**3.000**	3.250	1.550	0.125	35.33
W2032501562	**3.250**	**3.000**	3.250	1.562	0.125	34.95

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2032501625*	**3.250**	**3.000**	3.250	1.625	0.125	28.74
W2032502000	**3.250**	**3.000**	3.250	2.000	0.125	41.40
W2032502125*	**3.250**	**3.000**	3.250	2.125	0.125	40.00
W2033750500	**3.375**	**3.125**	3.375	0.500	0.125	7.70
W2033750750	**3.375**	**3.125**	3.375	0.750	0.125	8.00
W2035000160	**3.500**	**3.250**	3.500	0.160	0.125	35.79
W2035000250	**3.500**	**3.250**	3.500	0.250	0.125	7.60
W2035000375	**3.500**	**3.250**	3.500	0.375	0.125	7.30
W2035000437*	**3.500**	**3.250**	3.500	0.437	0.125	17.15
W2035000500	**3.500**	**3.250**	3.500	0.500	0.125	7.10
W2035000500S	**3.500**	**3.250**	3.500	0.500	0.125	7.39
W2035000625	**3.500**	**3.250**	3.500	0.625	0.125	8.00
W2035000750	**3.500**	**3.250**	3.500	0.750	0.125	8.00
W2035000750S*	**3.500**	**3.250**	3.500	0.750	0.125	9.08
W2035000875	**3.500**	**3.250**	3.500	0.875	0.125	16.70
W2035001000	**3.500**	**3.250**	3.500	1.000	0.125	8.67
W2035001120	**3.500**	**3.250**	3.500	1.120	0.125	20.47
W2035001250	**3.500**	**3.250**	3.500	1.250	0.125	32.91
W2035001500	**3.500**	**3.250**	3.500	1.500	0.125	25.28
W2036250500	**3.625**	**3.375**	3.625	0.500	0.125	14.30
W2036250625	**3.625**	**3.375**	3.625	0.625	0.125	12.60
W2036250750	**3.625**	**3.375**	3.625	0.750	0.125	8.00
W2036251000	**3.625**	**3.375**	3.625	1.000	0.125	29.40
W2037500250	**3.750**	**3.500**	3.750	0.250	0.125	5.61
W2037500375	**3.750**	**3.500**	3.750	0.375	0.125	9.30
W2037500500	**3.750**	**3.500**	3.750	0.500	0.125	7.20
W2037500625	**3.750**	**3.500**	3.750	0.625	0.125	8.10
W2037500750	**3.750**	**3.500**	3.750	0.750	0.125	8.60
W2037501000	**3.750**	**3.500**	3.750	1.000	0.125	8.70
W2037501250	**3.750**	**3.500**	3.750	1.250	0.125	32.60
W2037501490*	**3.750**	**3.500**	3.750	1.490	0.125	47.40
W2037501500	**3.750**	**3.500**	3.750	1.500	0.125	38.64
W2038750250*	**3.875**	**3.625**	3.875	0.250	0.125	10.10
W2038751000	**3.875**	**3.625**	3.875	1.000	0.125	24.18
W2040000144-CG25	**4.000**	**3.500**	4.000	0.144	0.125	41.70
W2040000160	**4.000**	**3.750**	4.000	0.160	0.125	46.17
W2040000250	**4.000**	**3.750**	4.000	0.250	0.125	15.95
W2040000312	**4.000**	**3.750**	4.000	0.312	0.125	22.15
W2040000375	**4.000**	**3.750**	4.000	0.375	0.125	9.10
W2040000375BR40	**4.000**	**3.750**	4.000	0.375	0.125	75.08
W2040000500	**4.000**	**3.750**	4.000	0.500	0.125	7.20
W2040000570	**4.000**	**3.750**	4.000	0.570	0.125	10.97
W2040000625	**4.000**	**3.750**	4.000	0.625	0.125	8.60
W2040000710	**4.000**	**3.750**	4.000	0.710	0.125	18.34

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2040000750	**4.000**	**3.750**	4.000	0.750	0.125	8.00
W2040000875	**4.000**	**3.750**	4.000	0.875	0.125	17.08
W2040000990*	**4.000**	**3.750**	4.000	0.990	0.125	33.00
W2040001000	**4.000**	**3.750**	4.000	1.000	0.125	9.36
W2040001250	**4.000**	**3.750**	4.000	1.250	0.125	21.50
W2040001500	**4.000**	**3.750**	4.000	1.500	0.125	53.40
W2040002000	**4.000**	**3.750**	4.000	2.000	0.125	51.85
W2041250420*	**4.125**	**3.875**	4.125	0.420	0.125	29.40
W2041251000*	**4.125**	**3.875**	4.125	1.000	0.125	27.10
W2042500250	**4.250**	**4.000**	4.250	0.250	0.125	19.40
W2042500375	**4.250**	**4.000**	4.250	0.375	0.125	9.61
W2042500500	**4.250**	**4.000**	4.250	0.500	0.125	7.50
W2042500500BR40*	**4.250**	**4.000**	4.250	0.500	0.125	87.98
W2042500625	**4.250**	**4.000**	4.250	0.625	0.125	8.40
W2042500750	**4.250**	**4.000**	4.250	0.750	0.125	9.00
W2042500750S	**4.250**	**4.000**	4.250	0.750	0.125	12.11
W2042500875*	**4.250**	**4.000**	4.250	0.875	0.125	40.24
W2042501000	**4.250**	**4.000**	4.250	1.000	0.125	11.40
W2042501250	**4.250**	**4.000**	4.250	1.250	0.125	20.70
W2042501500	**4.250**	**4.000**	4.250	1.500	0.125	45.54
W2042501890	**4.250**	**4.000**	4.250	1.890	0.125	55.88
W2042502000	**4.250**	**4.000**	4.250	2.000	0.125	75.53
W2042502500*	**4.250**	**4.000**	4.250	2.500	0.125	54.16
W2042502750*	**4.250**	**4.000**	4.250	2.750	0.125	80.50
W2042600500*	**4.260**	**4.010**	4.260	0.500	0.125	23.33
W2044000625*	**4.400**	**4.150**	4.400	0.625	0.125	8.40
W2045000180*	**4.500**	**4.000**	4.500	0.180	0.125	19.56
W2045000250	**4.500**	**4.000**	4.500	0.250	0.125	8.66
W2045000375	**4.500**	**4.250**	4.500	0.375	0.125	9.78
W2045000500	**4.500**	**4.250**	4.500	0.500	0.125	7.89
W2045000500S	**4.500**	**4.250**	4.500	0.500	0.125	7.89
W2045000625	**4.500**	**4.250**	4.500	0.625	0.125	8.40
W2045000750	**4.500**	**4.250**	4.500	0.750	0.125	8.50
W2045000750S	**4.500**	**4.250**	4.500	0.750	0.125	12.38
W2045000790	**4.500**	**4.250**	4.500	0.790	0.125	15.68
W2045000875	**4.500**	**4.250**	4.500	0.875	0.125	20.35
W2045000930	**4.500**	**4.250**	4.500	0.930	0.125	26.26
W2045000990*	**4.500**	**4.250**	4.500	0.990	0.125	24.70
W2045001000	**4.500**	**4.250**	4.500	1.000	0.125	11.50
W2045001250	**4.500**	**4.250**	4.500	1.250	0.125	38.64
W2045001500	**4.500**	**4.250**	4.500	1.500	0.125	36.97
W2045001870	**4.500**	**4.250**	4.500	1.870	0.125	59.99
W2045002360*	**4.500**	**4.250**	4.500	2.360	0.125	99.94
W2046251000	**4.625**	**4.375**	4.625	1.000	0.125	13.87

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2047500375	**4.750**	**4.500**	4.750	0.375	0.125	10.28
W2047500500	**4.750**	**4.500**	4.750	0.500	0.125	7.40
W2047500625	**4.750**	**4.500**	4.750	0.625	0.125	10.70
W2047500750	**4.750**	**4.500**	4.750	0.750	0.125	8.40
W2047501000	**4.750**	**4.500**	4.750	1.000	0.125	11.40
W2047501250	**4.750**	**4.500**	4.750	1.250	0.125	21.99
W2047501500	**4.750**	**4.500**	4.750	1.500	0.125	40.30
W2047501562*	**4.750**	**4.500**	4.750	1.562	0.125	56.14
W2047501644	**4.750**	**4.500**	4.750	1.644	0.125	63.70
W2047501990*	**4.750**	**4.500**	4.750	1.990	0.125	155.91
W2047502000	**4.750**	**4.500**	4.750	2.000	0.125	54.98
W2047503500*	**4.750**	**4.500**	4.750	3.500	0.125	96.92
W2048750375*	**4.875**	**4.625**	4.875	0.375	0.125	6.74
W2048750750*	**4.875**	**4.625**	4.875	0.750	0.125	13.56
W2050000375	**5.000**	**4.750**	5.000	0.375	0.125	9.43
W2050000500	**5.000**	**4.750**	5.000	0.500	0.125	7.43
W2050000625	**5.000**	**4.750**	5.000	0.625	0.125	8.27
W2050000750	**5.000**	**4.750**	5.000	0.750	0.125	8.27
W2050000860*	**5.000**	**4.750**	5.000	0.860	0.125	13.88
W2050000875	**5.000**	**4.750**	5.000	0.875	0.125	14.88
W2050001000	**5.000**	**4.750**	5.000	1.000	0.125	11.17
W2050001000BR40*	**5.000**	**4.750**	5.000	1.000	0.125	45.44
W2050001120	**5.000**	**4.750**	5.000	1.120	0.125	28.20
W2050001125	**5.000**	**4.750**	5.000	1.125	0.125	28.20
W2050001250	**5.000**	**4.750**	5.000	1.250	0.125	42.66
W2050001500	**5.000**	**4.750**	5.000	1.500	0.125	28.48
W2050001562	**5.000**	**4.750**	5.000	1.560	0.125	33.87
W2050002000	**5.000**	**4.750**	5.000	2.000	0.125	65.74
W2051251562*	**5.125**	**4.875**	5.125	1.562	0.125	35.37
W2052500375	**5.250**	**5.000**	5.250	0.375	0.125	6.30
W2052500500	**5.250**	**5.000**	5.250	0.500	0.125	7.43
W2052500625	**5.250**	**5.000**	5.250	0.625	0.125	8.27
W2052500750	**5.250**	**5.000**	5.250	0.750	0.125	8.45
W2052500750S	**5.250**	**5.000**	5.250	0.750	0.125	8.36
W2052501000	**5.250**	**5.000**	5.250	1.000	0.125	12.02
W2052501000/BZ*	**5.250**	**5.000**	5.250	1.000	0.125	159.52
W2052501000BR40*	**5.250**	**5.000**	5.250	1.000	0.125	46.94
W2052501030	**5.250**	**5.000**	5.250	1.030	0.125	48.20
W2052501250	**5.250**	**5.000**	5.250	1.250	0.125	49.48
W2052501500	**5.250**	**5.000**	5.250	1.500	0.125	35.74
W2052502000	**5.250**	**5.000**	5.250	2.000	0.125	45.90
W2052502250*	**5.250**	**5.000**	5.250	2.250	0.125	87.97
W2052503500*	**5.250**	**5.000**	5.250	3.500	0.125	132.58
W2052503620*	**5.250**	**5.000**	5.250	3.620	0.125	93.92

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2055000375	**5.500**	**5.250**	5.500	0.375	0.125	7.43
W2055000500	**5.500**	**5.250**	5.500	0.500	0.125	7.43
W20550000500S	**5.500**	**5.250**	5.500	0.500	0.125	9.16
W2055000625	**5.500**	**5.250**	5.500	0.625	0.125	8.78
W2055000750	**5.500**	**5.250**	5.500	0.750	0.125	8.45
W20550000750S	**5.500**	**5.250**	5.500	0.750	0.125	9.24
W2055001000	**5.500**	**5.250**	5.500	1.000	0.125	11.30
W2055001250	**5.500**	**5.250**	5.500	1.250	0.125	31.59
W2055001312*	**5.500**	**5.250**	5.500	1.312	0.125	34.11
W2055001370	**5.500**	**5.250**	5.500	1.370	0.125	61.05
W2055001500	**5.500**	**5.250**	5.500	1.500	0.125	31.79
W2055001620*	**5.500**	**5.250**	5.500	1.620	0.125	58.72
W2055001750	**5.500**	**5.250**	5.500	1.750	0.125	46.90
W2055002000*	**5.500**	**5.250**	5.500	2.000	0.125	60.90
W2055002250	**5.500**	**5.250**	5.500	2.250	0.125	76.03
W2057500500	**5.750**	**5.500**	5.750	0.500	0.125	8.47
W2057500625	**5.750**	**5.500**	5.750	0.625	0.125	9.04
W2057500750	**5.750**	**5.500**	5.750	0.750	0.125	10.85
W2057501000	**5.750**	**5.500**	5.750	1.000	0.125	11.51
W2057501500	**5.750**	**5.500**	5.750	1.500	0.125	41.65
W2057501620	**5.750**	**5.500**	5.750	1.620	0.125	94.52
W2057501650	**5.750**	**5.500**	5.750	1.650	0.125	87.56
W2057501750*	**5.750**	**5.500**	5.750	1.750	0.125	37.63
W2057502000	**5.750**	**5.500**	5.750	2.000	0.125	69.49
W2057502370	**5.750**	**5.500**	5.750	2.370	0.125	101.22
W2057800174-CG25	**5.780**	**5.530**	5.780	0.174	0.125	42.70
W2060000180	**6.000**	**5.750**	6.000	0.180	0.125	22.24
W2060000250	**6.000**	**5.750**	6.000	0.250	0.125	21.80
W2060000375	**6.000**	**5.750**	6.000	0.375	0.125	10.70
W2060000500	**6.000**	**5.750**	6.000	0.500	0.125	8.47
W2060000625	**6.000**	**5.750**	6.000	0.625	0.125	9.04
W2060000625/BR60	**6.000**	**5.750**	6.000	0.625	0.125	83.82
W2060000630*	**6.000**	**5.750**	6.000	0.630	0.125	8.35
W2060000750	**6.000**	**5.750**	6.000	0.750	0.125	8.78
W2060000875	**6.000**	**5.750**	6.000	0.875	0.125	23.01
W2060001000	**6.000**	**5.750**	6.000	1.000	0.125	11.51
W2060001070	**6.000**	**5.750**	6.000	1.070	0.125	54.63
W2060001250	**6.000**	**5.750**	6.000	1.250	0.125	41.20
W2060001320	**6.000**	**5.750**	6.000	1.320	0.125	34.98
W2060001500	**6.000**	**5.750**	6.000	1.500	0.125	48.36
W2060001740*	**6.000**	**5.750**	6.000	1.740	0.125	69.74
W2060001750	**6.000**	**5.750**	6.000	1.750	0.125	59.06
W2060002000	**6.000**	**5.750**	6.000	2.000	0.125	60.63
W2060002500	**6.000**	**5.750**	6.000	2.500	0.125	83.99

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2060002860*	**6.000**	**5.750**	6.000	2.860	0.125	167.00
W2061001000*	**6.100**	**5.850**	6.100	1.000	0.125	19.44
W2062500500	**6.250**	**6.000**	6.250	0.500	0.125	9.72
W2062500625	**6.250**	**6.000**	6.250	0.625	0.125	9.09
W2062500750	**6.250**	**6.000**	6.250	0.750	0.125	9.69
W20625000750S	**6.250**	**6.000**	6.250	0.750	0.125	10.84
W2062501000	**6.250**	**6.000**	6.250	1.000	0.125	11.64
W2062501250	**6.250**	**6.000**	6.250	1.250	0.125	42.69
W2062501490*	**6.250**	**6.000**	6.250	1.490	0.125	48.36
W2062501500	**6.250**	**6.000**	6.250	1.500	0.125	39.57
W2062501750	**6.250**	**6.000**	6.250	1.750	0.125	61.02
W2062502000	**6.250**	**6.000**	6.250	2.000	0.125	86.06
W2062502760	**6.250**	**6.000**	6.250	2.760	0.125	159.31
W2063751240*	**6.375**	**6.125**	6.375	1.240	0.125	34.51
W2063752500	**6.375**	**6.125**	6.375	2.500	0.125	137.16
W2065000375	**6.500**	**6.250**	6.500	0.375	0.125	17.81
W2065000375BR40*	**6.500**	**6.250**	6.500	0.375	0.125	63.47
W2065000500	**6.500**	**6.250**	6.500	0.500	0.125	9.72
W20650000500S	**6.500**	**6.250**	6.500	0.500	0.125	7.36
W2065000625	**6.500**	**6.250**	6.500	0.625	0.125	9.72
W2065000750	**6.500**	**6.250**	6.500	0.750	0.125	9.72
W20650000750S	**6.500**	**6.250**	6.500	0.750	0.125	9.79
W2065001000	**6.500**	**6.250**	6.500	1.000	0.125	12.42
W2065001250	**6.500**	**6.250**	6.500	1.250	0.125	44.35
W2065001370	**6.500**	**6.250**	6.500	1.370	0.125	40.14
W2065001375*	**6.500**	**6.250**	6.500	1.375	0.125	40.14
W2065001500	**6.500**	**6.250**	6.500	1.500	0.125	38.48
W2065001750	**6.500**	**6.250**	6.500	1.750	0.125	60.73
W2065002000	**6.500**	**6.250**	6.500	2.000	0.125	76.37
W2065002740	**6.500**	**6.250**	6.500	2.740	0.125	224.07
W2065002860*	**6.500**	**6.250**	6.500	2.860	0.125	110.64
W2065002880*	**6.500**	**6.250**	6.500	2.880	0.125	127.85
W2065003500	**6.500**	**6.250**	6.500	3.500	0.125	165.23
W2067500375*	**6.750**	**6.500**	6.750	0.375	0.125	12.02
W2067500500*	**6.750**	**6.500**	6.750	0.500	0.125	12.05
W2067500625	**6.750**	**6.500**	6.750	0.625	0.125	13.56
W2067500750	**6.750**	**6.500**	6.750	0.750	0.125	12.91
W2067501000	**6.750**	**6.500**	6.750	1.000	0.125	15.84
W2067501500	**6.750**	**6.500**	6.750	1.500	0.125	30.14
W2067561250*	**6.756**	**6.506**	6.756	1.250	0.125	47.54
W2068752000*	**6.875**	**6.625**	6.875	2.000	0.125	45.94
W2070000200-CG25*	**7.000**	**6.750**	7.000	0.200	0.125	55.20
W2070000375	**7.000**	**6.750**	7.000	0.375	0.125	14.20
W2070000500	**7.000**	**6.750**	7.000	0.500	0.125	9.72

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2070000625	**7.000**	**6.750**	7.000	0.625	0.125	9.72
W2070000687	**7.000**	**6.750**	7.000	0.687	0.125	49.19
W2070000750	**7.000**	**6.750**	7.000	0.750	0.125	12.91
W2070001000	**7.000**	**6.750**	7.000	1.000	0.125	16.58
W2070001250	**7.000**	**6.750**	7.000	1.250	0.125	33.73
W2070001500	**7.000**	**6.750**	7.000	1.500	0.125	20.16
W2070001750	**7.000**	**6.750**	7.000	1.750	0.125	60.90
W2070002000	**7.000**	**6.750**	7.000	2.000	0.125	76.37
W2070003000*	**7.000**	**6.750**	7.000	3.000	0.125	206.91
W2070003120	**7.000**	**6.750**	7.000	3.120	0.125	98.24
W2070003500*	**7.000**	**6.750**	7.000	3.500	0.125	214.13
W2072500500	**7.250**	**7.000**	7.250	0.500	0.125	17.39
W2072500625	**7.250**	**7.000**	7.250	0.625	0.125	21.75
W2072500750	**7.250**	**7.000**	7.250	0.750	0.125	14.07
W20725007505	**7.250**	**7.000**	7.250	0.750	0.125	11.29
W2072501000	**7.250**	**7.000**	7.250	1.000	0.125	25.61
W2072501400	**7.250**	**7.000**	7.250	1.400	0.125	66.81
W2072502000	**7.250**	**7.000**	7.250	2.000	0.125	88.62
W2072507140	**7.250**	**7.000**	7.250	7.140	0.125	313.38
W2073750750*	**7.375**	**7.125**	7.375	0.750	0.125	10.01
W2075000500	**7.500**	**7.250**	7.500	0.500	0.125	9.72
W20750005005	**7.500**	**7.250**	7.500	0.500	0.125	7.36
W2075000625	**7.500**	**7.250**	7.500	0.625	0.125	15.80
W2075000750	**7.500**	**7.250**	7.500	0.750	0.125	11.35
W20750007505	**7.500**	**7.250**	7.500	0.750	0.125	10.13
W2075001000	**7.500**	**7.250**	7.500	1.000	0.125	25.61
W2075001250	**7.500**	**7.250**	7.500	1.250	0.125	48.92
W2075001500	**7.500**	**7.250**	7.500	1.500	0.125	49.41
W20750020005C*	**7.500**	**7.250**	7.500	2.000	0.125	75.55
W2075002370	**7.500**	**7.250**	7.500	2.370	0.125	92.94
W2075002500	**7.500**	**7.250**	7.500	2.500	0.125	92.94
W2075002950	**7.500**	**7.250**	7.500	2.950	0.125	102.57
W2076250500	**7.625**	**7.375**	7.625	0.500	0.125	38.14
W2077500500	**7.750**	**7.500**	7.750	0.500	0.125	35.41
W2077500625*	**7.750**	**7.500**	7.750	0.625	0.125	20.44
W2077500750	**7.750**	**7.500**	7.750	0.750	0.125	30.25
W2077501000	**7.750**	**7.500**	7.750	1.000	0.125	44.53
W2077501500	**7.750**	**7.500**	7.750	1.500	0.125	48.55
W2077501620	**7.750**	**7.500**	7.750	1.620	0.125	140.53
W2077502000	**7.750**	**7.500**	7.750	2.000	0.125	48.65
W2077503500	**7.750**	**7.500**	7.750	3.500	0.125	211.90
W2078751000*	**7.875**	**7.625**	7.875	1.000	0.125	56.26
W2078752000	**7.875**	**7.625**	7.875	2.000	0.125	114.35
W2080000180	**8.000**	**7.750**	8.000	0.180	0.125	23.28

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2080000375	**8.000**	**7.750**	8.000	0.375	0.125	27.53
W2080000500	**8.000**	**7.750**	8.000	0.500	0.125	10.58
W20800005005R40	**8.000**	**7.750**	8.000	0.500	0.125	95.35
W2080000625	**8.000**	**7.750**	8.000	0.625	0.125	21.75
W2080000750	**8.000**	**7.750**	8.000	0.750	0.125	14.97
W2080000875	**8.000**	**7.750**	8.000	0.875	0.125	44.58
W2080001000	**8.000**	**7.750**	8.000	1.000	0.125	25.61
W20800010005R40*	**8.000**	**7.750**	8.000	1.000	0.125	72.48
W2080001250	**8.000**	**7.750**	8.000	1.250	0.125	57.37
W2080001460*	**8.000**	**7.750**	8.000	1.460	0.125	60.21
W2080001500	**8.000**	**7.750**	8.000	1.500	0.125	48.55
W2080002000	**8.000**	**7.750**	8.000	2.000	0.125	117.24
W2080002250	**8.000**	**7.750**	8.000	2.250	0.125	198.09
W2080002930	**8.000**	**7.750**	8.000	2.930	0.125	348.96
W2080003125*	**8.000**	**7.750**	8.000	3.125	0.125	407.96
W2080005000	**8.000**	**7.750**	8.000	5.000	0.125	198.71
W2082500500	**8.250**	**8.000**	8.250	0.500	0.125	13.98
W2082500625*	**8.250**	**8.000**	8.250	0.625	0.125	14.89
W2082500750	**8.250**	**8.000**	8.250	0.750	0.125	26.63
W2082501000	**8.250**	**8.000**	8.250	1.000	0.125	27.42
W20825010005R40*	**8.250**	**8.000**	8.250	1.000	0.125	73.04
W2082501250	**8.250**	**8.000**	8.250	1.250	0.125	45.91
W2082501500	**8.250**	**8.000**	8.250	1.500	0.125	65.80
W2082501750	**8.250**	**8.000**	8.250	1.750	0.125	60.38
W2082502120	**8.250**	**8.000**	8.250	2.120	0.125	123.76
W2082502250*	**8.250**	**8.000**	8.250	2.250	0.125	100.03
W2082502500*	**8.250**	**8.000**	8.250	2.500	0.125	155.60
W2082502750*	**8.250**	**8.000**	8.250	2.750	0.125	116.61
W2082504130	**8.250**	**8.000**	8.250	4.130	0.125	101.05
W2083751000	**8.375**	**8.125**	8.375	1.000	0.125	24.44
W2083751250	**8.375**	**8.125**	8.375	1.250	0.125	46.35
W2084370750*	**8.437**	**8.187**	8.437	0.750	0.125	14.64
W20843707505	**8.437**	**8.187**	8.437	0.750	0.125	13.13
W2085000500	**8.500**	**8.250**	8.500	0.500	0.125	11.74
W20850005005*	**8.500**	**8.250**	8.500	0.500	0.125	9.53
W2085000625	**8.500**	**8.250**	8.500	0.625	0.125	16.71
W2085000750	**8.500**	**8.250**	8.500	0.750	0.125	20.61
W20850007505	**8.500**	**8.250**	8.500	0.750	0.125	13.42
W2085001000	**8.500**	**8.250**	8.500	1.000	0.125	34.40
W2085001171*	**8.500**	**8.250**	8.500	1.171	0.125	117.68
W2085001500	**8.500**	**8.250**	8.500	1.500	0.125	52.89
W2085002000	**8.500**	**8.250**	8.500	2.000	0.125	86.89
W2085002370	**8.500**	**8.250**	8.500	2.370	0.125	123.00
W2085003000	**8.500**	**8.250**	8.500	3.000	0.125	204.22

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2086250500	**8.625**	**8.375**	8.625	0.500	0.125	17.47
W2086251000*	**8.625**	**8.375**	8.625	1.000	0.125	49.38
W2087501000	**8.750**	**8.500**	8.750	1.000	0.125	52.71
W2087501750*	**8.750**	**8.500**	8.750	1.750	0.125	99.35
W2087502000	**8.750**	**8.500**	8.750	2.000	0.125	202.93
W2090000500	**9.000**	**8.750**	9.000	0.500	0.125	18.76
W2090000625	**9.000**	**8.750**	9.000	0.625	0.125	17.62
W2090000750	**9.000**	**8.750**	9.000	0.750	0.125	21.44
W2090000885	**9.000**	**8.750**	9.000	0.885	0.125	49.48
W2090001000	**9.000**	**8.750**	9.000	1.000	0.125	35.03
W2090001250*	**9.000**	**8.750**	9.000	1.250	0.125	59.44
W2090001500	**9.000**	**8.750**	9.000	1.500	0.125	131.13
W2090002000	**9.000**	**8.750**	9.000	2.000	0.125	285.49
W2090002950*	**9.000**	**8.750**	9.000	2.950	0.125	92.55
W2091251000*	**9.125**	**8.875**	9.125	1.000	0.125	50.42
W2091701000	**9.170**	**8.920**	9.170	1.000	0.125	22.72
W2092500750*	**9.250**	**9.000**	9.250	0.750	0.125	21.31
W2092501000	**9.250**	**9.000**	9.250	1.000	0.125	51.29
W2092501250	**9.250**	**9.000**	9.250	1.250	0.125	123.80
W2092501500*	**9.250**	**9.000**	9.250	1.500	0.125	168.49
W2092501750	**9.250**	**9.000**	9.250	1.750	0.125	101.41
W2092501970	**9.250**	**9.000**	9.250	1.970	0.125	134.30
W2092502000	**9.250**	**9.000**	9.250	2.000	0.125	93.84
W2092502250	**9.250**	**9.000**	9.250	2.250	0.125	203.56
W2092502500*	**9.250**	**9.000**	9.250	2.500	0.125	153.20
W2092503375*	**9.250**	**9.000**	9.250	3.375	0.125	470.24
W2093750500*	**9.375**	**9.125**	9.375	0.500	0.125	14.00
W2095000500	**9.500**	**9.250**	9.500	0.500	0.125	19.62
W2095000625	**9.500**	**9.250**	9.500	0.625	0.125	19.86
W2095000750	**9.500**	**9.250**	9.500	0.750	0.125	31.22
W2095001000	**9.500**	**9.250**	9.500	1.000	0.125	63.29
W2095001250	**9.500**	**9.250**	9.500	1.250	0.125	76.24
W2095003000	**9.500**	**9.250**	9.500	3.000	0.125	110.20
W2097500500WGT	**9.750**	**9.500**	9.750	0.500	0.125	35.27
W2097500625*	**9.750**	**9.500**	9.750	0.625	0.125	36.21
W2097500750	**9.750**	**9.500**	9.750	0.750	0.125	34.13
W2097501000	**9.750**	**9.500**	9.750	1.000	0.125	27.42
W2098750500*	**9.875**	**9.625**	9.875	0.500	0.125	32.84
W2098750750	**9.875**	**9.625**	9.875	0.750	0.125	26.25
W2098750750S*	**9.875**	**9.625**	9.875	0.750	0.125	20.48
W2100000250*	**10.000**	**9.750**	10.000	0.250	0.125	74.45
W2100000375BR40*	**10.000**	**9.750**	10.000	0.375	0.125	106.34
W2100000500	**10.000**	**9.750**	10.000	0.500	0.125	32.84
W2100000625	**10.000**	**9.750**	10.000	0.625	0.125	50.94

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2100000750	**10.000**	**9.750**	10.000	0.750	0.125	34.13
W2100000875*	**10.000**	**9.750**	10.000	0.875	0.125	34.93
W2100001000	**10.000**	**9.750**	10.000	1.000	0.125	37.56
W2100001250	**10.000**	**9.750**	10.000	1.250	0.125	49.67
W2100001500	**10.000**	**9.750**	10.000	1.500	0.125	103.82
W2100001750*	**10.000**	**9.750**	10.000	1.750	0.125	176.31
W2100001915	**10.000**	**9.750**	10.000	1.915	0.125	124.76
W2100002000	**10.000**	**9.750**	10.000	2.000	0.125	69.92
W2100002750	**10.000**	**9.750**	10.000	2.750	0.125	357.29
W2100003250	**10.000**	**9.750**	10.000	3.250	0.125	123.65
W2100003945	**10.000**	**9.750**	10.000	3.945	0.125	537.82
W2101251250	**10.125**	**9.875**	10.125	1.250	0.125	71.35
W2102500750	**10.250**	**10.000**	10.250	0.750	0.125	134.98
W2102501000	**10.250**	**10.000**	10.250	1.000	0.125	48.04
W2102501000SC*	**10.250**	**10.000**	10.250	1.000	0.125	29.30
W2102501250*	**10.250**	**10.000**	10.250	1.250	0.125	144.75
W2105000500	**10.500**	**10.250**	10.500	0.500	0.125	50.46
W2105000750	**10.500**	**10.250**	10.500	0.750	0.125	30.70
W2105001000	**10.500**	**10.250**	10.500	1.000	0.125	100.50
W2105001250	**10.500**	**10.250**	10.500	1.250	0.125	107.66
W2105001500*	**10.500**	**10.250**	10.500	1.500	0.125	207.24
W2105001750	**10.500**	**10.250**	10.500	1.750	0.125	123.45
W2105002385*	**10.500**	**10.250**	10.500	2.385	0.125	135.64
WR105002460-126*	**10.500**	**10.250**	10.500	2.460	0.125	272.50
W2105002750	**10.500**	**10.250**	10.500	2.750	0.125	188.50
W2105003500*	**10.500**	**10.250**	10.500	3.500	0.125	290.97
W2105003750	**10.500**	**10.250**	10.500	3.750	0.125	225.03
W2105004000*	**10.500**	**10.250**	10.500	4.000	0.125	231.86
W2106251000*	**10.625**	**10.375**	10.625	1.000	0.125	74.16
W2107501000	**10.750**	**10.500**	10.750	1.000	0.125	48.88
W2107502000	**10.750**	**10.500**	10.750	2.000	0.125	161.72
W2107503500*	**10.750**	**10.500**	10.750	3.500	0.125	249.82
W2110000500*	**11.000**	**10.750**	11.000	0.500	0.125	93.55
W2110000625*	**11.000**	**10.750**	11.000	0.625	0.125	58.18
W2110000750	**11.000**	**10.750**	11.000	0.750	0.125	61.16
W2110000750WGT	**11.000**	**10.750**	11.000	0.750	0.125	50.08
W2110001000	**11.000**	**10.750**	11.000	1.000	0.125	99.26
W2110001250	**11.000**	**10.750**	11.000	1.250	0.125	107.84
W2110001500	**11.000**	**10.750**	11.000	1.500	0.125	120.46
W2110001625	**11.000**	**10.750**	11.000	1.625	0.125	241.77
W2110001875*	**11.000**	**10.750**	11.000	1.875	0.125	306.26
W2110001930	**11.000**	**10.750**	11.000	1.930	0.125	195.76
W2110002000*	**11.000**	**10.750**	11.000	2.000	0.125	47.92
W2110003250	**11.000**	**10.750**	11.000	3.250	0.125	208.67

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2112500750*	**11.250**	**11.000**	11.250	0.750	0.125	54.49
W2112501000	**11.250**	**11.000**	11.250	1.000	0.125	44.30
W2112501250	**11.250**	**11.000**	11.250	1.250	0.125	169.22
W2112502370	**11.250**	**11.000**	11.250	2.370	0.125	123.19
W2115000750*	**11.500**	**11.250**	11.500	0.750	0.125	74.84
W2115001000*	**11.500**	**11.250**	11.500	1.000	0.125	82.56
W2115001250	**11.500**	**11.250**	11.500	1.250	0.125	132.20
W2115003870	**11.500**	**11.250**	11.500	3.870	0.125	178.12
W2115004000	**11.500**	**11.250**	11.500	4.000	0.125	152.53
W2116252000	**11.625**	**11.375**	11.625	2.000	0.125	114.13
W2117501250	**11.750**	**11.500**	11.750	1.250	0.125	84.02
W2117507000/2PCS*	**11.750**	**11.500**	11.750	7.000	0.125	634.84
W2120000500	**12.000**	**11.750**	12.000	0.500	0.125	57.10
W2120000625	**12.000**	**11.750**	12.000	0.625	0.125	35.29
W2120000750	**12.000**	**11.750**	12.000	0.750	0.125	37.41
W2120001000	**12.000**	**11.750**	12.000	1.000	0.125	72.45
W2120001250	**12.000**	**11.750**	12.000	1.250	0.125	177.79
W2120001500	**12.000**	**11.750**	12.000	1.500	0.125	188.79
W2120002000	**12.000**	**11.750**	12.000	2.000	0.125	206.65
W2120002460	**12.000**	**11.750**	12.000	2.460	0.125	632.05
W2122501000	**12.250**	**12.000**	12.250	1.000	0.125	253.91
W2122501250*	**12.250**	**12.000**	12.250	1.250	0.125	262.46
W2122503000	**12.250**	**12.000**	12.250	3.000	0.125	422.08
W2125000750*	**12.500**	**12.250**	12.500	0.750	0.125	191.64
W2125001460*	**12.500**	**12.250**	12.500	1.460	0.125	227.74
W2125004000	**12.500**	**12.250**	12.500	4.000	0.125	236.60
W2126251250	**12.625**	**12.375**	12.625	1.250	0.125	107.16
W2127502360	**12.750**	**12.500**	12.750	2.360	0.125	217.90
W2127504015	**12.750**	**12.500**	12.750	4.015	0.125	321.02
W2128754000*	**12.875**	**12.625**	12.875	4.000	0.125	394.11
W2130000500*	**13.000**	**12.750**	13.000	0.500	0.125	127.29
W2130000750	**13.000**	**12.750**	13.000	0.750	0.125	175.31
W2130001000	**13.000**	**12.750**	13.000	1.000	0.125	100.47
W2130001250	**13.000**	**12.750**	13.000	1.250	0.125	104.47
W2130001460*	**13.000**	**12.750**	13.000	1.460	0.125	223.11
W2130001500	**13.000**	**12.750**	13.000	1.500	0.125	482.91
W2130002000	**13.000**	**12.750**	13.000	2.000	0.125	294.89
W2132500625*	**13.250**	**13.000**	13.250	0.625	0.125	74.42
W2132501000	**13.250**	**13.000**	13.250	1.000	0.125	191.37
W2132501250*	**13.250**	**13.000**	13.250	1.250	0.125	109.51
W2132501500*	**13.250**	**13.000**	13.250	1.500	0.125	135.44
W2132502000	**13.250**	**13.000**	13.250	2.000	0.125	328.69
WR132504615-126*	**13.250**	**13.000**	13.250	4.615	0.125	422.49
W2135000750*	**13.500**	**13.250**	13.500	0.750	0.125	275.45

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2135001460	**13.500**	**13.250**	13.500	1.460	0.125	149.84
W2137504020*	**13.750**	**13.500**	13.750	4.020	0.125	433.24
W2140000500	**14.000**	**13.750**	14.000	0.500	0.125	203.00
W2140000625*	**14.000**	**13.750**	14.000	0.625	0.125	196.93
W2140000750	**14.000**	**13.750**	14.000	0.750	0.125	104.06
W2140001000	**14.000**	**13.750**	14.000	1.000	0.125	204.72
W2140001250	**14.000**	**13.750**	14.000	1.250	0.125	288.91
W2140001500	**14.000**	**13.750**	14.000	1.500	0.125	340.51
W2140002000	**14.000**	**13.750**	14.000	2.000	0.125	421.44
W2140002500*	**14.000**	**13.750**	14.000	2.500	0.125	569.83
W2142501500*	**14.250**	**14.000**	14.250	1.500	0.125	188.19
W2142503000*	**14.250**	**14.000**	14.250	3.000	0.125	313.12
W2142504000	**14.250**	**14.000**	14.250	4.000	0.125	310.93
W2143752000	**14.375**	**14.125**	14.375	2.000	0.125	181.08
W2145000625*	**14.500**	**14.250**	14.500	0.625	0.125	197.92
W2147504760	**14.750**	**14.500**	14.750	4.760	0.125	1134.54
W2150001250*	**15.000**	**14.750**	15.000	1.250	0.125	153.77
W2150001500*	**15.000**	**14.750**	15.000	1.500	0.125	294.56
W2151251250	**15.125**	**14.875**	15.125	1.250	0.125	162.24
W2155000500*	**15.500**	**15.250**	15.500	0.500	0.125	149.75
W2157501000BR40*	**15.750**	**15.500**	15.750	1.000	0.125	135.97
W2160001000	**16.000**	**15.750**	16.000	1.000	0.125	198.95
W2160001250	**16.000**	**15.750**	16.000	1.250	0.125	283.11
W2160001500	**16.000**	**15.750**	16.000	1.500	0.125	501.61
W2160002000*	**16.000**	**15.750**	16.000	2.000	0.125	373.13
W2165000750BR40	**16.500**	**16.250**	16.500	0.750	0.125	134.41
W2165001000*	**16.500**	**16.250**	16.500	1.000	0.125	328.28
W2165001000BR40*	**16.500**	**16.250**	16.500	1.000	0.125	142.05
W2165001500*	**16.500**	**16.250**	16.500	1.500	0.125	322.72
W2167503980	**16.750**	**16.500**	16.750	3.980	0.125	1113.66
W2180000500*	**18.000**	**17.750**	18.000	0.500	0.125	324.56
W2180001000	**18.000**	**17.750**	18.000	1.000	0.125	217.64
W2180001250*	**18.000**	**17.750**	18.000	1.250	0.125	215.18
W2180001500*	**18.000**	**17.750**	18.000	1.500	0.125	347.39
W2180002000	**18.000**	**17.750**	18.000	2.000	0.125	563.17
W2200000500*	**20.000**	**19.750**	20.000	0.500	0.125	450.00
W2200001000*	**20.000**	**19.750**	20.000	1.000	0.125	489.12
W2200001500*	**20.000**	**19.750**	20.000	1.500	0.125	449.02
W2200002000*	**20.000**	**19.750**	20.000	2.000	0.125	563.17
W2205001000BR40*	**20.500**	**20.250**	20.500	1.000	0.125	175.77
W2210001000*	**21.000**	**20.750**	21.000	1.000	0.125	315.36
0.126" - Cross Section - 0.126"						
WR040001236-126*	**4.000**	**3.750**	4.000	1.236	0.126	30.28

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.126" - Cross Section - 0.126"						
WR105002375-126*	**10.500**	**10.250**	10.500	2.385	0.126	138.35
0.127" - Cross Section - 0.127"						
WR152502370-127	**15.250**	**15.000**	15.250	2.370	0.127	277.06
0.128" - Cross Section - 0.128"						
WR045000770-128*	**4.500**	**4.240**	4.500	0.770	0.128	17.75
WR047500750-128	**4.750**	**4.494**	4.750	0.750	0.128	21.55
WR070001000-128*	**7.000**	**6.744**	7.000	1.000	0.128	81.11
WR100401500-128	**10.040**	**9.784**	10.040	1.500	0.128	97.77
0.130" - Cross Section - 0.130"						
WR140102250-130*	**14.010**	**13.750**	14.010	2.250	0.130	434.04
0.139" - Cross Section - 0.139"						
WR090762354-139*	**9.076**	**8.798**	9.076	2.354	0.139	303.47
0.140" - Cross Section - 0.140"						
WR037801000-140	**3.780**	**3.500**	3.780	1.000	0.140	65.34
WR040301250-140	**4.030**	**3.750**	4.030	1.250	0.140	71.85
WR042801250-140	**4.280**	**4.000**	4.280	1.250	0.140	40.02
WR050301562-140*	**5.030**	**4.750**	5.030	1.562	0.140	51.82
WR055302250-140*	**5.530**	**5.250**	5.530	2.250	0.140	126.40
WR060301320-140	**6.030**	**5.750**	6.030	1.320	0.140	67.54
WR062801500-140	**6.280**	**6.000**	6.280	1.500	0.140	90.73
WR082801750-140*	**8.280**	**8.000**	8.280	1.750	0.140	112.75
WR092802250-140	**9.280**	**9.000**	9.280	2.250	0.140	186.16
WR100303250-140	**10.030**	**9.750**	10.030	3.250	0.140	405.27
WR105302750-140*	**10.530**	**10.250**	10.530	2.750	0.140	194.10
WR115303870-140*	**11.530**	**10.750**	11.530	3.870	0.140	381.62
WR125301460-140*	**12.530**	**12.250**	12.530	1.460	0.140	189.23
0.154" - Cross Section - 0.154"						
WR033080235-154/BR40	**3.308**	**3.000**	3.308	0.235	0.154	39.76
0.158" - Cross Section - 0.158"						
WR040660236-158/BR40	**4.066**	**3.750**	4.066	0.236	0.158	57.95
WR042500236-158/BR40*	**4.250**	**3.934**	4.250	0.236	0.158	51.46
WR047500236-158/BR40	**4.750**	**4.434**	4.750	0.236	0.158	45.44
WR048160236-158/BR40	**4.816**	**4.500**	4.816	0.236	0.158	49.17
WR050000236-158/BR40	**5.000**	**4.684**	5.000	0.236	0.158	47.45
WR050660236-158/BR40*	**5.066**	**4.750**	5.066	0.236	0.158	50.34
WR055660236-158/C25*	**5.566**	**5.250**	5.566	0.236	0.158	72.60
WR062500236-158/BR40*	**6.250**	**5.934**	6.250	0.236	0.158	58.32

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.158" - Cross Section - 0.158"						
WR070000236-158/C25*	**7.000**	**6.684**	7.000	0.236	0.158	85.95
WR072500375-158/BR40	**7.250**	**6.935**	7.250	0.375	0.158	168.63
WR095000370-158/BR40*	**9.500**	**9.184**	9.500	0.370	0.158	163.90
WR140000500-158/BR40*	**14.000**	**13.684**	14.000	0.500	0.158	456.93
0.162" - Cross Section - 0.162"						
WR070870500-162/C25	**7.087**	**6.763**	7.087	0.500	0.162	181.85
3/16" - Cross Section - 0.187"						
W3018751500*	**1.875**	**1.500**	1.875	1.500	0.187	29.11
W3021250750*	**2.125**	**1.750**	2.125	0.750	0.187	35.72
W3022000625*	**2.200**	**1.825**	2.200	0.625	0.187	13.77
W3023750825*	**2.375**	**2.000**	2.375	0.825	0.187	36.58
W3026250625*	**2.625**	**2.250**	2.625	0.625	0.187	18.07
W3026251000*	**2.625**	**2.250**	2.625	1.000	0.187	40.22
W3028750625*	**2.875**	**2.500**	2.875	0.625	0.187	13.10
W3030000500*	**3.000**	**2.625**	3.000	0.500	0.187	48.03
W3030000750*	**3.000**	**2.625**	3.000	0.750	0.187	13.87
W3030000875*	**3.000**	**2.625**	3.000	0.875	0.187	16.69
W3030001000*	**3.000**	**2.625**	3.000	1.000	0.187	39.01
W3030620625*	**3.062**	**2.687**	3.062	0.625	0.187	16.74
W3031251000*	**3.125**	**2.750**	3.125	1.000	0.187	31.01
W3031251250	**3.125**	**2.750**	3.125	1.250	0.187	53.72
W3032500500	**3.250**	**2.875**	3.250	0.500	0.187	20.43
W3032500625*	**3.250**	**2.875**	3.250	0.625	0.187	30.07
W3032500875*	**3.250**	**2.875**	3.250	0.875	0.187	30.64
W3033751000*	**3.375**	**3.000**	3.375	1.000	0.187	54.74
W3033751250*	**3.375**	**3.000**	3.375	1.250	0.187	60.21
W3035000500*	**3.500**	**3.125**	3.500	0.500	0.187	20.46
W3035000750*	**3.500**	**3.125**	3.500	0.750	0.187	16.85
W3035001000	**3.500**	**3.125**	3.500	1.000	0.187	30.69
W3036251250*	**3.625**	**3.250**	3.625	1.250	0.187	24.07
W3037500750*	**3.750**	**3.375**	3.750	0.750	0.187	17.20
W3037501000*	**3.750**	**3.375**	3.750	1.000	0.187	38.21
W3038751250*	**3.875**	**3.500**	3.875	1.250	0.187	29.33
W3038751750	**3.875**	**3.500**	3.875	1.750	0.187	52.77
W3038752620*	**3.875**	**3.500**	3.875	2.620	0.187	91.62
W3040000250	**4.000**	**3.625**	4.000	0.250	0.187	21.48
W3040000500	**4.000**	**3.625**	4.000	0.500	0.187	20.83
W3040000750*	**4.000**	**3.625**	4.000	0.750	0.187	17.53
W3040000875	**4.000**	**3.625**	4.000	0.875	0.187	17.57
W3040001000	**4.000**	**3.625**	4.000	1.000	0.187	38.21
W3040001375*	**4.000**	**3.625**	4.000	1.375	0.187	35.52
W3041251000*	**4.125**	**3.750**	4.125	1.000	0.187	38.60

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W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
3/16" - Cross Section - 0.187"						
W3042500750	**4.250**	**3.875**	4.250	0.750	0.187	18.56
W3043751250*	**4.375**	**4.000**	4.375	1.250	0.187	50.90
W3043751500*	**4.375**	**4.000**	4.375	1.500	0.187	35.93
W3043751750*	**4.375**	**4.000**	4.375	1.750	0.187	81.07
W3043752390*	**4.375**	**4.000**	4.375	2.390	0.187	56.51
W3045000500	**4.500**	**4.125**	4.500	0.500	0.187	25.66
W3045000750	**4.500**	**4.125**	4.500	0.750	0.187	22.67
W3045001000	**4.500**	**4.125**	4.500	1.000	0.187	40.62
W3047500750*	**4.750**	**4.375**	4.750	0.750	0.187	31.81
W3048752250*	**4.875**	**4.500**	4.875	2.250	0.187	83.66
W3048752875	**4.875**	**4.500**	4.875	2.875	0.187	104.61
W3050000250	**5.000**	**4.625**	5.000	0.250	0.187	27.82
W3050000500	**5.000**	**4.625**	5.000	0.500	0.187	25.30
W3050000875*	**5.000**	**4.625**	5.000	0.875	0.187	20.57
W3050001000	**5.000**	**4.625**	5.000	1.000	0.187	33.88
W3050001500*	**5.000**	**4.625**	5.000	1.500	0.187	36.00
W3051250750*	**5.125**	**4.750**	5.125	0.750	0.187	37.96
W3051251000*	**5.125**	**4.750**	5.125	1.000	0.187	43.42
W3052500500*	**5.250**	**4.875**	5.250	0.500	0.187	33.75
W3052501500*	**5.250**	**4.875**	5.250	1.500	0.187	35.57
W3053751000*	**5.375**	**5.000**	5.375	1.000	0.187	46.72
W3053752375*	**5.375**	**5.000**	5.375	2.375	0.187	143.51
W3055000500	**5.500**	**5.125**	5.500	0.500	0.187	33.34
W3055000750	**5.500**	**5.125**	5.500	0.750	0.187	40.57
W3055000875*	**5.500**	**5.125**	5.500	0.875	0.187	33.98
W3055001000	**5.500**	**5.125**	5.500	1.000	0.187	46.19
W3055001250	**5.500**	**5.125**	5.500	1.250	0.187	36.97
W3055001500*	**5.500**	**5.125**	5.500	1.500	0.187	49.50
W3055001740	**5.500**	**5.125**	5.500	1.740	0.187	72.46
W3055001750*	**5.500**	**5.125**	5.500	1.750	0.187	67.41
W3057501000*	**5.750**	**5.375**	5.750	1.000	0.187	55.54
W3058753500*	**5.875**	**5.500**	5.875	3.500	0.187	184.26
W3060000500	**6.000**	**5.625**	6.000	0.500	0.187	45.94
W3060000625	**6.000**	**5.625**	6.000	0.625	0.187	28.41
W3060000875*	**6.000**	**5.625**	6.000	0.875	0.187	36.39
W3060001000	**6.000**	**5.625**	6.000	1.000	0.187	52.94
W3060001250	**6.000**	**5.625**	6.000	1.250	0.187	35.04
W3060002500*	**6.000**	**5.625**	6.000	2.500	0.187	150.24
W3060002750	**6.000**	**5.625**	6.000	2.750	0.187	167.53
W3061250750*	**6.125**	**5.750**	6.125	0.750	0.187	42.96
W3061250953*	**6.125**	**5.750**	6.125	0.953	0.187	64.92
W3065000750	**6.500**	**6.125**	6.500	0.750	0.187	61.37
W3065001000	**6.500**	**6.125**	6.500	1.000	0.187	51.40
W3065001500	**6.500**	**6.125**	6.500	1.500	0.187	59.00

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
3/16" - Cross Section - 0.187"						
W3065001625	**6.500**	**6.125**	6.500	1.625	0.187	67.52
W3067501000*	**6.750**	**6.375**	6.750	1.000	0.187	56.07
W3070000500	**7.000**	**6.625**	7.000	0.500	0.187	41.22
W3070000750	**7.000**	**6.625**	7.000	0.750	0.187	37.29
W3070001000	**7.000**	**6.625**	7.000	1.000	0.187	45.57
W3070001250*	**7.000**	**6.625**	7.000	1.250	0.187	43.22
W3070001500*	**7.000**	**6.625**	7.000	1.500	0.187	67.67
W3071250875*	**7.125**	**6.750**	7.125	0.875	0.187	73.60
W3071251000*	**7.125**	**6.750**	7.125	1.000	0.187	59.60
W3072503070*	**7.250**	**6.875**	7.250	3.070	0.187	183.32
W3073751610	**7.375**	**7.000**	7.375	1.610	0.187	122.97
W3073754500*	**7.375**	**7.000**	7.375	4.500	0.187	259.86
W3073757000*	**7.375**	**7.000**	7.375	7.000	0.187	380.67
W3073757395	**7.375**	**7.000**	7.375	7.395	0.187	699.64
W3075000750	**7.500**	**7.125**	7.500	0.750	0.187	72.04
W3075001250	**7.500**	**7.125**	7.500	1.250	0.187	80.72
W3075001500	**7.500**	**7.125**	7.500	1.500	0.187	75.78
W3077501000*	**7.750**	**7.375**	7.750	1.000	0.187	45.57
W3077504500*	**7.750**	**7.375**	7.750	4.500	0.187	292.78
W3080000500	**8.000**	**7.625**	8.000	0.500	0.187	58.44
W3080001000	**8.000**	**7.625**	8.000	1.000	0.187	91.25
W3080001500	**8.000**	**7.625**	8.000	1.500	0.187	62.60
W3080002750	**8.000**	**7.625**	8.000	2.750	0.187	190.33
W3080003000*	**8.000**	**7.625**	8.000	3.000	0.187	156.79
W3082501250*	**8.250**	**7.875**	8.250	1.250	0.187	62.30
W3082502000*	**8.250**	**7.875**	8.250	2.000	0.187	150.77
W3082502740*	**8.250**	**7.875**	8.250	2.740	0.187	124.03
W3082503500*	**8.250**	**7.875**	8.250	3.500	0.187	271.17
W3082504000*	**8.250**	**7.875**	8.250	4.000	0.187	161.49
W3083751500*	**8.375**	**8.000**	8.375	1.500	0.187	123.64
W3085000500WGT*	**8.500**	**8.125**	8.500	0.500	0.187	67.74
W3085001000	**8.500**	**8.125**	8.500	1.000	0.187	61.39
W3085001500*	**8.500**	**8.125**	8.500	1.500	0.187	144.71
W3085001940*	**8.500**	**8.125**	8.500	1.940	0.187	219.44
W3085004250*	**8.500**	**8.125**	8.500	4.250	0.187	420.82
W3090000500*	**9.000**	**8.625**	9.000	0.500	0.187	72.39
W3090001000	**9.000**	**8.625**	9.000	1.000	0.187	77.29
W3090001000/BZ*	**9.000**	**8.625**	9.000	1.000	0.187	282.89
W3090001500	**9.000**	**8.625**	9.000	1.500	0.187	103.00
W3091251000*	**9.125**	**8.750**	9.125	1.000	0.187	115.36
W3092501625*	**9.250**	**8.875**	9.250	1.625	0.187	172.32
W3093751610	**9.375**	**9.000**	9.375	1.610	0.187	125.40
W3093754750*	**9.375**	**9.000**	9.375	4.750	0.187	525.54
W3093758980	**9.375**	**9.000**	9.375	8.980	0.187	948.06

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR series - GF.NYLON/BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
3/16" - Cross Section - 0.187"						
W3095001930*	**9.500**	**9.125**	9.500	1.930	0.187	191.19
W3098750500*	**9.875**	**9.500**	9.875	0.500	0.187	106.71
W3100000500	**10.000**	**9.625**	10.000	0.500	0.187	81.04
W3100000625	**10.000**	**9.625**	10.000	0.625	0.187	106.51
W3100001000	**10.000**	**9.625**	10.000	1.000	0.187	115.36
W3100001250	**10.000**	**9.625**	10.000	1.250	0.187	94.97
W3100001500	**10.000**	**9.625**	10.000	1.500	0.187	183.27
W3100002000	**10.000**	**9.625**	10.000	2.000	0.187	196.27
W3100002750*	**10.000**	**9.625**	10.000	2.750	0.187	354.18
W3103753000*	**10.375**	**10.000**	10.375	3.000	0.187	632.97
W3105001735WGT*	**10.500**	**10.125**	10.500	1.750	0.187	385.75
W3105001750	**10.500**	**10.125**	10.500	1.750	0.187	208.76
W3105001750WGT	**10.500**	**10.125**	10.500	1.750	0.187	385.75
W3105002500*	**10.500**	**10.125**	10.500	2.500	0.187	182.50
W3107506500	**10.750**	**10.375**	10.750	6.500	0.187	849.12
W3110001000	**11.000**	**10.625**	11.000	1.000	0.187	124.60
W3110002500*	**11.000**	**10.625**	11.000	2.500	0.187	158.53
W3112501000*	**11.250**	**10.875**	11.250	1.000	0.187	172.95
W3113752610	**11.375**	**11.000**	11.375	2.610	0.187	217.33
W31137511010	**11.375**	**11.000**	11.375	11.010	0.187	941.12
W3117503000*	**11.750**	**11.375**	11.750	3.000	0.187	672.52
W3120000500*	**12.000**	**11.625**	12.000	0.500	0.187	116.27
W3120001000	**12.000**	**11.625**	12.000	1.000	0.187	178.92
W3120001000BR40*	**12.000**	**11.625**	12.000	1.000	0.187	415.83
W3120001500WGT	**12.000**	**11.625**	12.000	1.500	0.187	218.57
W3120002500	**12.000**	**11.625**	12.000	2.500	0.187	194.12
W3122503980	**12.250**	**11.875**	12.250	3.980	0.187	195.91
W3123751250*	**12.375**	**12.000**	12.375	1.250	0.187	202.07
W3125002000	**12.500**	**12.125**	12.500	2.000	0.187	206.68
W3125002500	**12.500**	**12.125**	12.500	2.500	0.187	283.06
W3125003000*	**12.500**	**12.125**	12.500	3.000	0.187	506.55
W3128751250*	**12.875**	**12.500**	12.875	1.250	0.187	202.07
W3128752890	**12.875**	**12.500**	12.875	2.890	0.187	444.31
W3128754045	**12.875**	**12.500**	12.875	4.045	0.187	605.10
W3128754250*	**12.875**	**12.500**	12.875	4.250	0.187	577.60
W3128757645*	**12.875**	**12.500**	12.875	7.645	0.187	1291.88
W31287512187	**12.875**	**12.500**	12.875	12.187	0.187	1022.25
W3130001000*	**13.000**	**12.625**	13.000	1.000	0.187	255.95
W3130001250	**13.000**	**12.625**	13.000	1.250	0.187	202.08
W3131256500*	**13.125**	**12.750**	13.125	6.500	0.187	1342.22
W3131257870	**13.125**	**12.750**	13.125	7.870	0.187	867.90
W3133755750*	**13.375**	**13.000**	13.375	5.750	0.187	1586.08

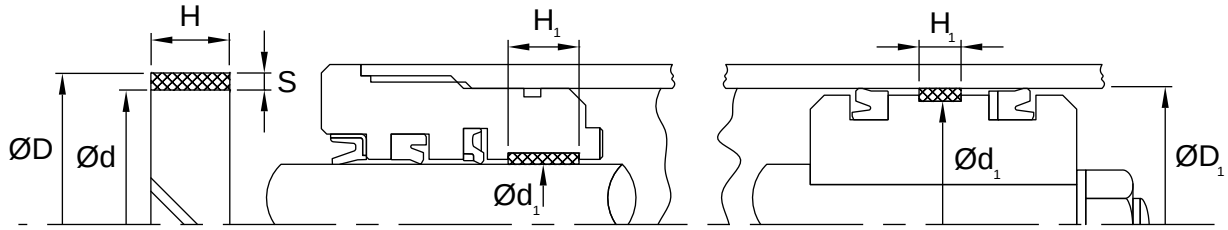
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
3/16" - Cross Section - 0.187"						
W31362513555	**13.625**	**13.250**	13.625	13.555	0.187	2345.62
W3138752375	**13.875**	**13.500**	13.875	2.375	0.187	201.34
W31387510020	**13.875**	**13.500**	13.875	10.020	0.187	924.58
W3140001000*	**14.000**	**13.625**	14.000	1.000	0.187	360.21
W3140004250*	**14.000**	**13.625**	14.000	4.250	0.187	1420.97
W3142504250*	**14.250**	**13.875**	14.250	4.250	0.187	633.69
W3143755740	**14.375**	**14.000**	14.375	5.740	0.187	2163.62
W31437514520	**14.375**	**14.000**	14.375	14.520	0.187	1890.83
W3145001750	**14.500**	**14.125**	14.500	1.750	0.187	448.38
W3145005250	**14.500**	**14.125**	14.500	5.250	0.187	1699.09
W3145008640	**14.500**	**14.125**	14.500	8.640	0.187	1510.61
W3150001250	**15.000**	**14.625**	15.000	1.250	0.187	442.99
W3150001500	**15.000**	**14.625**	15.000	1.500	0.187	243.91
W3151257720	**15.125**	**14.750**	15.125	7.720	0.187	848.55
W3155005240	**15.500**	**15.125**	15.500	5.240	0.187	1890.17
W31550011600	**15.500**	**15.125**	15.500	11.600	0.187	1935.27
W31587515270	**15.875**	**15.500**	15.875	15.270	0.187	3715.78
W3160001500*	**16.000**	**15.625**	16.000	1.500	0.187	233.09
W3160002000	**16.000**	**15.625**	16.000	2.000	0.187	350.54
W3161252370	**16.125**	**15.750**	16.125	2.370	0.187	447.07
W3161257720	**16.125**	**15.750**	16.125	7.720	0.187	692.88
W31612510020	**16.125**	**15.750**	16.125	10.020	0.187	1667.73
W31612515270	**16.125**	**15.750**	16.125	15.270	0.187	2535.21
W31612515270/SPGWAT*	**16.125**	**15.750**	16.125	15.270	0.187	2661.99
W3164371500*	**16.437**	**16.062**	16.437	1.500	0.187	241.38
W3165001500*	**16.500**	**16.125**	16.500	1.500	0.187	250.46
W31700011302	**17.000**	**16.625**	17.000	11.302	0.187	2472.43
W31700011302/SPG*	**17.000**	**16.625**	17.000	11.302	0.187	2596.06
W31700015271*	**17.000**	**16.625**	17.000	15.271	0.187	4383.18
W3180001000*	**18.000**	**17.625**	18.000	1.000	0.187	238.21
W31800013985*	**18.000**	**17.625**	18.000	13.985	0.187	4559.06
W3183757720	**18.375**	**18.000**	18.375	7.720	0.187	1063.78
1/4" - Cross Section - 0.250"						
W4065003500	**6.500**	**6.000**	6.500	3.500	0.250	170.56
W4077500250*	**7.750**	**7.250**	7.750	0.250	0.250	41.33
W4082503500	**8.250**	**7.750**	8.250	3.500	0.250	284.62
W4100002750*	**10.000**	**9.500**	10.000	2.750	0.250	223.04
W4102503500	**10.250**	**9.750**	10.250	3.500	0.250	317.01
W4110002000*	**11.000**	**10.500**	11.000	2.000	0.250	337.71
W4120000500*	**12.000**	**11.500**	12.000	0.500	0.250	175.88

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

HP - High Performance Guide Rings - Inch



Standard Material	Temperature Range	Color
GF.Nylon	-40°F to +275°F (-40°C to +135°C)	Royal Blue



HIGH PERFORMANCE GUIDE RINGS are finished machined to a thickness tolerance of +/-.001" unless otherwise specified. The state-of the-art process and continuous improvement, generally keep the process Cpk's above 3.5. This provides better control of the extrusion gap and reduction of the apparatus or cylinder bending loads. High performance guide rings are THE choice for demanding applications.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/16" - Cross Section - 0.062"						
W1080000500HP	**8.000**	**7.875**	8.000	0.500	0.062	51.44
1/8" - Cross Section - 0.125"						
W2010000375HP*	**1.000**	**0.750**	1.000	0.375	0.125	13.22
W2011250375HP*	**1.125**	**0.875**	1.125	0.375	0.125	13.33
W2012500375HP*	**1.250**	**1.000**	1.250	0.375	0.125	13.33
W2012500500HP*	**1.250**	**1.000**	1.250	0.500	0.125	14.47
W2013750500HP*	**1.375**	**1.125**	1.375	0.500	0.125	14.47
W2015000250HP*	**1.500**	**1.250**	1.500	0.250	0.125	13.33
W2015000375HP*	**1.500**	**1.250**	1.500	0.375	0.125	13.33
W2015000500HP*	**1.500**	**1.250**	1.500	0.500	0.125	14.47
W2016250375HP*	**1.625**	**1.375**	1.625	0.375	0.125	13.57
W2016250500HP*	**1.625**	**1.375**	1.625	0.500	0.125	10.26
W2017500250HP*	**1.750**	**1.500**	1.750	0.250	0.125	13.79
W2017500375HP	**1.750**	**1.500**	1.750	0.375	0.125	13.79
W2017500500HP*	**1.750**	**1.500**	1.750	0.500	0.125	14.82
W2017500750HP*	**1.750**	**1.500**	1.750	0.750	0.125	16.07
W2017501000HP*	**1.750**	**1.500**	1.750	1.000	0.125	16.75
W2018750500HP*	**1.875**	**1.625**	1.875	0.500	0.125	14.82
W2020000250HP*	**2.000**	**1.750**	2.000	0.250	0.125	13.85
W2020000375HP	**2.000**	**1.750**	2.000	0.375	0.125	13.85
W2020000500HP	**2.000**	**1.750**	2.000	0.500	0.125	14.82

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2020000625HP*	**2.000**	**1.750**	2.000	0.625	0.125	15.84
W2020000750HP*	**2.000**	**1.750**	2.000	0.750	0.125	16.46
W2020001000HP*	**2.000**	**1.750**	2.000	1.000	0.125	16.98
W2021250375HP*	**2.125**	**1.875**	2.125	0.375	0.125	14.24
W2021250500HP*	**2.125**	**1.875**	2.125	0.500	0.125	14.93
W2021250750HP*	**2.125**	**1.875**	2.125	0.750	0.125	17.44
W2022500250HP*	**2.250**	**2.000**	2.250	0.250	0.125	14.24
W2022500375HP*	**2.250**	**2.000**	2.250	0.375	0.125	14.24
W2022500500HP	**2.250**	**2.000**	2.250	0.500	0.125	14.93
W2022500625HP*	**2.250**	**2.000**	2.250	0.625	0.125	17.10
W2022500750HP	**2.250**	**2.000**	2.250	0.750	0.125	17.44
W2022501000HP	**2.250**	**2.000**	2.250	1.000	0.125	18.91
W2025000250HP*	**2.500**	**2.250**	2.500	0.250	0.125	14.47
W2025000312HP*	**2.500**	**2.250**	2.500	0.312	0.125	14.47
W2025000375HP*	**2.500**	**2.250**	2.500	0.375	0.125	14.47
W2025000500HP*	**2.500**	**2.250**	2.500	0.500	0.125	15.16
W2025000625HP*	**2.500**	**2.250**	2.500	0.625	0.125	17.21
W2025000750HP*	**2.500**	**2.250**	2.500	0.750	0.125	18.01
W2025001000HP*	**2.500**	**2.250**	2.500	1.000	0.125	19.37
W2026250750HP*	**2.625**	**2.375**	2.625	0.750	0.125	19.03
W2027500375HP	**2.750**	**2.500**	2.750	0.375	0.125	14.82
W2027500500HP	**2.750**	**2.500**	2.750	0.500	0.125	15.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

HP series - GF.NYLON

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2027500625HP*	**2.750**	**2.500**	2.750	0.625	0.125	17.78
W2027500750HP	**2.750**	**2.500**	2.750	0.750	0.125	19.03
W2027501000HP	**2.750**	**2.500**	2.750	1.000	0.125	19.60
W2027501500HP*	**2.750**	**2.500**	2.750	1.500	0.125	32.36
W2028750500HP*	**2.875**	**2.625**	2.875	0.500	0.125	15.61
W2030000250HP*	**3.000**	**2.750**	3.000	0.250	0.125	15.05
W2030000375HP	**3.000**	**2.750**	3.000	0.375	0.125	15.05
W2030000500HP	**3.000**	**2.750**	3.000	0.500	0.125	15.61
W2030000625HP*	**3.000**	**2.750**	3.000	0.625	0.125	18.24
W2030000750HP	**3.000**	**2.750**	3.000	0.750	0.125	19.72
W2030001000HP	**3.000**	**2.750**	3.000	1.000	0.125	20.74
W2032500250HP*	**3.250**	**3.000**	3.250	0.250	0.125	15.61
W2032500375HP	**3.250**	**3.000**	3.250	0.375	0.125	15.61
W2032500500HP	**3.250**	**3.000**	3.250	0.500	0.125	16.52
W2032500625HP*	**3.250**	**3.000**	3.250	0.625	0.125	19.14
W2032500750HP	**3.250**	**3.000**	3.250	0.750	0.125	21.08
W2032501000HP	**3.250**	**3.000**	3.250	1.000	0.125	23.36
W2032501250HP*	**3.250**	**3.000**	3.250	1.250	0.125	32.03
W2032501500HP*	**3.250**	**3.000**	3.250	1.500	0.125	38.52
W2035000250HP*	**3.500**	**3.250**	3.500	0.250	0.125	15.73
W2035000375HP	**3.500**	**3.250**	3.500	0.375	0.125	15.96
W2035000500HP	**3.500**	**3.250**	3.500	0.500	0.125	16.75
W2035000625HP*	**3.500**	**3.250**	3.500	0.625	0.125	19.37
W2035000750HP	**3.500**	**3.250**	3.500	0.750	0.125	21.31
W2035001000HP	**3.500**	**3.250**	3.500	1.000	0.125	24.38
W2035001125HP*	**3.500**	**3.250**	3.500	1.125	0.125	33.50
W2035001250HP*	**3.500**	**3.250**	3.500	1.250	0.125	33.50
W2035001500HP*	**3.500**	**3.250**	3.500	1.500	0.125	40.22
W2036250750HP*	**3.625**	**3.375**	3.625	0.750	0.125	22.22
W2037500375HP*	**3.750**	**3.500**	3.750	0.375	0.125	15.96
W2037500500HP	**3.750**	**3.500**	3.750	0.500	0.125	16.87
W2037500625HP*	**3.750**	**3.500**	3.750	0.625	0.125	20.28
W2037500750HP	**3.750**	**3.500**	3.750	0.750	0.125	22.22
W2037501000HP	**3.750**	**3.500**	3.750	1.000	0.125	25.64
W2037501250HP*	**3.750**	**3.500**	3.750	1.250	0.125	35.22
W2038750250HP*	**3.875**	**3.625**	3.875	0.250	0.125	15.96
W2038751000HP*	**3.875**	**3.625**	3.875	1.000	0.125	25.64
W2038751250HP*	**3.875**	**3.625**	3.875	1.250	0.125	35.33
W2040000250HP	**4.000**	**3.750**	4.000	0.250	0.125	15.96
W2040000312HP*	**4.000**	**3.750**	4.000	0.312	0.125	16.19
W2040000375HP	**4.000**	**3.750**	4.000	0.375	0.125	16.19
W2040000500HP	**4.000**	**3.750**	4.000	0.500	0.125	17.10
W2040000625HP*	**4.000**	**3.750**	4.000	0.625	0.125	20.28
W2040000750HP*	**4.000**	**3.750**	4.000	0.750	0.125	22.33

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2040000875HP*	**4.000**	**3.750**	4.000	0.875	0.125	25.64
W2040001000HP	**4.000**	**3.750**	4.000	1.000	0.125	25.64
W2040001250HP*	**4.000**	**3.750**	4.000	1.250	0.125	35.33
W2041250500HP*	**4.125**	**3.875**	4.125	0.500	0.125	20.63
W2042500250HP*	**4.250**	**4.000**	4.250	0.250	0.125	19.72
W2042500375HP*	**4.250**	**4.000**	4.250	0.375	0.125	19.72
W2042500500HP*	**4.250**	**4.000**	4.250	0.500	0.125	20.63
W2042500625HP*	**4.250**	**4.000**	4.250	0.625	0.125	21.88
W2042500750HP	**4.250**	**4.000**	4.250	0.750	0.125	22.68
W2042501000HP	**4.250**	**4.000**	4.250	1.000	0.125	25.07
W2042501250HP*	**4.250**	**4.000**	4.250	1.250	0.125	34.54
W2042501500HP*	**4.250**	**4.000**	4.250	1.500	0.125	41.36
W2045000375HP	**4.500**	**4.250**	4.500	0.375	0.125	20.05
W2045000500HP	**4.500**	**4.250**	4.500	0.500	0.125	21.08
W2045000625HP*	**4.500**	**4.250**	4.500	0.625	0.125	22.33
W2045000750HP	**4.500**	**4.250**	4.500	0.750	0.125	23.93
W2045001000HP	**4.500**	**4.250**	4.500	1.000	0.125	24.38
W2045001250HP*	**4.500**	**4.250**	4.500	1.250	0.125	34.87
W2045001500HP*	**4.500**	**4.250**	4.500	1.500	0.125	41.94
W2047500250HP*	**4.750**	**4.500**	4.750	0.250	0.125	20.63
W2047500500HP*	**4.750**	**4.500**	4.750	0.500	0.125	21.31
W2047500625HP*	**4.750**	**4.500**	4.750	0.625	0.125	22.68
W2047500750HP	**4.750**	**4.500**	4.750	0.750	0.125	24.16
W2047501000HP	**4.750**	**4.500**	4.750	1.000	0.125	25.64
W2047501500HP*	**4.750**	**4.500**	4.750	1.500	0.125	42.40
W2050000375HP	**5.000**	**4.750**	5.000	0.375	0.125	21.08
W2050000500HP	**5.000**	**4.750**	5.000	0.500	0.125	21.65
W2050000625HP	**5.000**	**4.750**	5.000	0.625	0.125	22.91
W2050000750HP	**5.000**	**4.750**	5.000	0.750	0.125	24.50
W2050001000HP	**5.000**	**4.750**	5.000	1.000	0.125	26.10
W2050001250HP*	**5.000**	**4.750**	5.000	1.250	0.125	35.78
W2052500500HP*	**5.250**	**5.000**	5.250	0.500	0.125	22.10
W2052500750HP*	**5.250**	**5.000**	5.250	0.750	0.125	24.73
W2052501000HP*	**5.250**	**5.000**	5.250	1.000	0.125	26.21
W2055000375HP*	**5.500**	**5.250**	5.500	0.375	0.125	21.31
W2055000500HP	**5.500**	**5.250**	5.500	0.500	0.125	22.22
W2055000625HP*	**5.500**	**5.250**	5.500	0.625	0.125	23.02
W2055000750HP*	**5.500**	**5.250**	5.500	0.750	0.125	24.73
W2055001000HP*	**5.500**	**5.250**	5.500	1.000	0.125	26.21
W2055001250HP*	**5.500**	**5.250**	5.500	1.250	0.125	36.01
W2057500375HP*	**5.750**	**5.500**	5.750	0.375	0.125	22.33
W2057500500HP*	**5.750**	**5.500**	5.750	0.500	0.125	22.91
W2057500625HP*	**5.750**	**5.500**	5.750	0.625	0.125	24.73
W2057500750HP	**5.750**	**5.500**	5.750	0.750	0.125	26.33

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2057501000HP*	**5.750**	**5.500**	5.750	1.000	0.125	28.03
W2060000375HP	**6.000**	**5.750**	6.000	0.375	0.125	23.24
W2060000500HP	**6.000**	**5.750**	6.000	0.500	0.125	23.24
W2060000625HP	**6.000**	**5.750**	6.000	0.625	0.125	25.75
W2060000750HP	**6.000**	**5.750**	6.000	0.750	0.125	26.66
W2060001000HP	**6.000**	**5.750**	6.000	1.000	0.125	28.38
W2060001250HP*	**6.000**	**5.750**	6.000	1.250	0.125	38.86
W2060001500HP*	**6.000**	**5.750**	6.000	1.500	0.125	46.13
W2062500500HP*	**6.250**	**6.000**	6.250	0.500	0.125	23.47
W2062500625HP*	**6.250**	**6.000**	6.250	0.625	0.125	25.87
W2062500750HP*	**6.250**	**6.000**	6.250	0.750	0.125	27.80
W2062501000HP*	**6.250**	**6.000**	6.250	1.000	0.125	29.52
W2062501500HP*	**6.250**	**6.000**	6.250	1.500	0.125	48.66
W2065000500HP*	**6.500**	**6.250**	6.500	0.500	0.125	23.59
W2065000625HP*	**6.500**	**6.250**	6.500	0.625	0.125	26.21
W2065000750HP*	**6.500**	**6.250**	6.500	0.750	0.125	28.15
W2065001000HP	**6.500**	**6.250**	6.500	1.000	0.125	29.86
W2065001500HP*	**6.500**	**6.250**	6.500	1.500	0.125	49.34
W2067501000HP*	**6.750**	**6.500**	6.750	1.000	0.125	33.40
W2070000500HP	**7.000**	**6.750**	7.000	0.500	0.125	24.50
W2070000625HP*	**7.000**	**6.750**	7.000	0.625	0.125	28.61
W2070000750HP*	**7.000**	**6.750**	7.000	0.750	0.125	31.45
W2070001000HP*	**7.000**	**6.750**	7.000	1.000	0.125	33.40
W2070001500HP	**7.000**	**6.750**	7.000	1.500	0.125	55.04
W2072501000HP	**7.250**	**7.000**	7.250	1.000	0.125	35.68
W2075000500HP*	**7.500**	**7.250**	7.500	0.500	0.125	25.87
W2075000625HP*	**7.500**	**7.250**	7.500	0.625	0.125	29.63
W2075000750HP*	**7.500**	**7.250**	7.500	0.750	0.125	32.59
W2075001000HP*	**7.500**	**7.250**	7.500	1.000	0.125	36.01

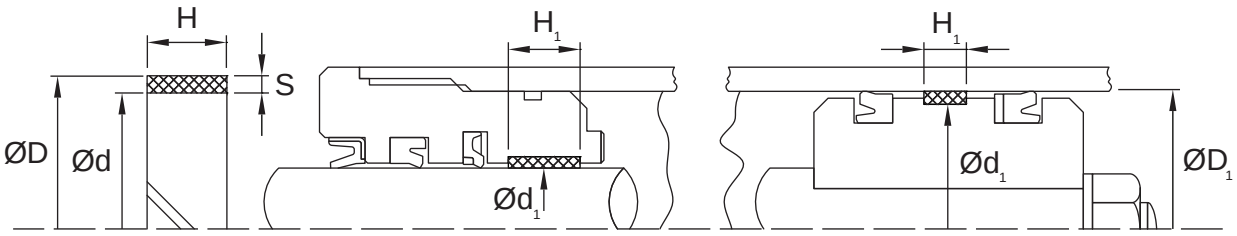
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2080000500HP*	**8.000**	**7.750**	8.000	0.500	0.125	34.87
W2080000625HP*	**8.000**	**7.750**	8.000	0.625	0.125	38.64
W2080000750HP	**8.000**	**7.750**	8.000	0.750	0.125	46.04
W2080001000HP	**8.000**	**7.750**	8.000	1.000	0.125	48.89
W2082501000HP*	**8.250**	**8.000**	8.250	1.000	0.125	49.46
W2082501250HP	**8.250**	**8.000**	8.250	1.250	0.125	57.12
W2085000500HP*	**8.500**	**8.250**	8.500	0.500	0.125	35.39
W2085001000HP*	**8.500**	**8.250**	8.500	1.000	0.125	49.57
W2087501000HP*	**8.750**	**8.500**	8.750	1.000	0.125	56.87
W2087501500HP	**8.750**	**8.500**	8.750	1.500	0.125	69.96
W2090000750HP*	**9.000**	**8.750**	9.000	0.750	0.125	47.29
W2090001000HP	**9.000**	**8.750**	9.000	1.000	0.125	50.15
W2092501000HP*	**9.250**	**9.000**	9.250	1.000	0.125	51.06
W2095001000HP*	**9.500**	**9.250**	9.500	1.000	0.125	51.97
W2100000500HP	**10.000**	**9.750**	10.000	0.500	0.125	53.68
W2100000750HP*	**10.000**	**9.750**	10.000	0.750	0.125	66.67
W2100001000HP*	**10.000**	**9.750**	10.000	1.000	0.125	81.37
W2105001000HP*	**10.500**	**10.250**	10.500	1.000	0.125	127.68
W2110001000HP*	**11.000**	**10.750**	11.000	1.000	0.125	130.93
W2120001000HP*	**12.000**	**11.750**	12.000	1.000	0.125	134.75
W2130001000HP*	**13.000**	**12.750**	13.000	1.000	0.125	159.00
W2140001000HP*	**14.000**	**13.750**	14.000	1.000	0.125	154.00
W2150001000HP*	**15.000**	**14.750**	15.000	1.000	0.125	164.99
W2160001000HP*	**16.000**	**15.750**	16.000	1.000	0.125	175.99
W2170001000HP*	**17.000**	**16.750**	17.000	1.000	0.125	187.00
0.140" - Cross Section - 0.140"						
WR050301120-140HP	**5.030**	**4.750**	5.030	1.120	0.140	87.04
WR085302370-140HP	**8.530**	**8.250**	8.530	2.370	0.140	203.05

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Wear Ring DX - W1 to W4 + WR - Inch



Standard Material	Temperature Range	Compressive Strengh	Surface Speed
Poly Resin	-22°F to +230°F (-30°C to +110°C)	≤52 213,6 psi (≤3600 bar)	< 4.92 ft/s (1.5 m/s)



The **W-style** wear-rings are primarily used on hydraulic/pneumatic cylinder pistons and rod glands. Their main function is to prevent metal-to-metal scoring as well as insuring that reciprocating parts are properly centered. Usually manufactured our of glass-filled nylon, other popular materials are also available.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Formula for calculating rod wear ring grooves

D1 Min.Groove Dia. = d Max.Rod Dia.
+ 2 (Max.Wear Ring C/S)
D1 tolerance = **.003/-.000**

d1 Min.Throat Dia. =
[D1 - 2(Min.Wear RingC/S)]
+ 2(Min. Radial Clearance of **.005**.
d1 tolerance = **+.003/-.000**

H1 Groove Length = Actual Part Height **+.010**
H1 tolerance = **+.010/-.000**

NOTES:
1. Rod throat diameter d1 is a new diameter over and above the diameter which is normally called out for the rod seal. Additional diameter clearance is required as noted for the wear ring to function properly. Since a larger clearance gap results. consideration as to the rod seal compounds must be made to avoid rod seal extrusion.

2. Also consider wear ring groove design for small diameter sizes. Installation problems on small sizes will occur if the groove design is not compensated.

Formula for calculating piston wear ring Grooves

d1 Max.Groove Dia. = D1 Min.Bore Dia.
- 2 (Max. Wear Ring C/S)
d1 tolerance = **+.000/-.005**

P Max.Piston Dia. = [d1 Min.Groove Dia.
+ 2(Min.Wear Ring C/S)]
- 2(Min. Radial Clearance of **005**).

P tolerance = +**.000/-.005**
H1 Groove Length = Actual Part Height **+.010**
H1 tolerance = **+.010/-.000**

NOTES:
1. The piston diameter P will not correspond to diameters called out for the piston seals. Additional clearances are required for wear ring use. Be sure the entire outside diameter of the piston is no larger than P. Be sure the piston seal compound is considered to prevent extrusion of the piston seal with the new increased diameter clearance.

W1 to W4 + WR DX series - POLY/RESIN

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/16" - Cross Section - 0.062"						
W1006250250/DX-BC	**0.625**	**0.500**	0.625	0.250	0.062	25.75
W1010000125/DX	**1.000**	**0.875**	1.000	0.125	0.062	24.95
W1016250750/DX	**1.625**	**1.500**	1.625	0.750	0.062	26.38
0.075" - Cross Section - 0.075"						
WR116500780-075/DX*	**11.650**	**11.500**	11.650	0.780	0.075	151.18
0.092" - Cross Section - 0.092"						
WR031871500-092/DX	**3.187**	**3.000**	3.187	1.500	0.092	56.61
WR034371500-092/DX	**3.437**	**3.250**	3.437	1.500	0.092	58.57
3/32" - Cross Section - 0.094"						
WR034371500-094/DX	**3.437**	**3.250**	3.437	1.500	0.094	58.57
0.098" - Cross Section - 0.098"						
WR014460480-098/DX*	**1.446**	**1.250**	1.446	0.480	0.098	34.21
WR030000400-098/DX*	**3.000**	**2.804**	3.000	0.400	0.098	44.62
WR039501215-098/DX	**3.950**	**3.750**	3.950	1.215	0.098	62.26
WR042001500-098/DX	**4.200**	**4.000**	4.200	1.500	0.098	84.08
WR042002000-098/DX	**4.200**	**4.000**	4.200	2.000	0.098	90.23
WR044651170-098/DX*	**4.465**	**4.250**	4.465	1.170	0.098	78.20
1/8" - Cross Section - 0.125"						
W2012500500/DX-W	**1.250**	**1.000**	1.250	0.500	0.125	28.84
W2012500750/DX*	**1.250**	**1.000**	1.250	0.750	0.125	31.30
W2015001000/DX-BC	**1.500**	**1.250**	1.500	1.000	0.125	38.98
W2017500500/DX	**1.750**	**1.500**	1.750	0.500	0.125	22.69
W2017501000/DX	**1.750**	**1.500**	1.750	1.000	0.125	35.12
W2020000500/DX-W	**2.000**	**1.750**	2.000	0.500	0.125	32.85
W2020001000/DX-W	**2.000**	**1.750**	2.000	1.000	0.125	30.70
W2022501000/DX-W	**2.250**	**2.000**	2.250	1.000	0.125	46.86
W2025000500/DX	**2.500**	**2.250**	2.500	0.500	0.125	23.77
W2025000750/DX*	**2.500**	**2.250**	2.500	0.750	0.125	30.89
W2025001000/DX	**2.500**	**2.250**	2.500	1.000	0.125	30.76
W2025001000/DX-W	**2.500**	**2.250**	2.500	1.000	0.125	30.76
W2027500750/DX	**2.750**	**2.500**	2.750	0.750	0.125	33.98
W2027501000/DX	**2.750**	**2.500**	2.750	1.000	0.125	38.22
W2027501000/DX-W	**2.750**	**2.500**	2.750	1.000	0.125	31.05
W2027501500/DX-W	**2.750**	**2.500**	2.750	1.500	0.125	48.63
W2030000250/DX*	**3.000**	**2.750**	3.000	0.250	0.125	16.30
W2030000375/DX	**3.000**	**2.750**	3.000	0.375	0.125	16.04
W2030000500/DX	**3.000**	**2.750**	3.000	0.500	0.125	27.08
W2030000750/DX*	**3.000**	**2.750**	3.000	0.750	0.125	56.76
W2030001000/DX	**3.000**	**2.750**	3.000	1.000	0.125	32.60

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2030001190/DX	**3.000**	**2.750**	3.000	1.190	0.125	67.78
W2030001250/DX*	**3.000**	**2.750**	3.000	1.250	0.125	41.18
W2030001500/DX*	**3.000**	**2.750**	3.000	1.500	0.125	51.85
W2032500375/DX	**3.250**	**3.000**	3.250	0.375	0.125	24.60
W2032500500/DX	**3.250**	**3.000**	3.250	0.500	0.125	27.70
W2032500500/DX-W	**3.250**	**3.000**	3.250	0.500	0.125	27.70
W2032500750/DX	**3.250**	**3.000**	3.250	0.750	0.125	36.52
W2032501000/DX	**3.250**	**3.000**	3.250	1.000	0.125	47.32
W2032501500/DX-W	**3.250**	**3.000**	3.250	1.500	0.125	58.82
W2035000750/DX*	**3.500**	**3.250**	3.500	0.750	0.125	39.21
W2035001000/DX	**3.500**	**3.250**	3.500	1.000	0.125	47.40
W2035001000/DX-W	**3.500**	**3.250**	3.500	1.000	0.125	38.82
W2037500500/DX*	**3.750**	**3.500**	3.750	0.500	0.125	31.86
W2037500625/DX*	**3.750**	**3.500**	3.750	0.625	0.125	38.01
W2037501000/DX	**3.750**	**3.500**	3.750	1.000	0.125	47.80
W2037501250/DX	**3.750**	**3.250**	3.750	1.250	0.125	55.92
W2037501500/DX*	**3.750**	**3.500**	3.750	1.500	0.125	104.30
W2040000250/DX	**4.000**	**3.750**	4.000	0.250	0.125	18.65
W2040000375/DX	**4.000**	**3.750**	4.000	0.375	0.125	30.87
W2040000500/DX	**4.000**	**3.750**	4.000	0.500	0.125	34.08
W2040000750/DX*	**4.000**	**3.750**	4.000	0.750	0.125	44.37
W2040001000/DX	**4.000**	**3.750**	4.000	1.000	0.125	48.26
W2040001000/DX-W	**4.000**	**3.750**	4.000	1.000	0.125	45.29
W2040001500/DX	**4.000**	**3.750**	4.000	1.500	0.125	60.80
W2040001875/DX*	**4.000**	**3.750**	4.000	1.875	0.125	95.80
W2040002000/DX-W	**4.000**	**3.750**	4.000	2.000	0.125	106.46
W2042221500/DX*	**4.222**	**3.972**	4.222	1.500	0.125	81.97
W2042500500/DX	**4.250**	**4.000**	4.250	0.500	0.125	36.08
W2042500750/DX*	**4.250**	**4.000**	4.250	0.750	0.125	47.55
W2042501000/DX	**4.250**	**4.000**	4.250	1.000	0.125	51.24
W2042501500/DX	**4.250**	**4.000**	4.250	1.500	0.125	75.84
W2042502000/DX*	**4.250**	**4.000**	4.250	2.000	0.125	43.36
W2045000500/DX	**4.500**	**4.250**	4.500	0.500	0.125	32.62
W2045000500/DX-W*	**4.500**	**4.250**	4.500	0.500	0.125	34.75
W2045001500/DX-W	**4.500**	**4.250**	4.500	1.500	0.125	82.68
W2045002000/DX	**4.500**	**4.250**	4.500	2.000	0.125	99.51
W2047500500/DX-BC	**4.750**	**4.500**	4.750	0.500	0.125	35.49
W2047501000/DX	**4.750**	**4.500**	4.750	1.000	0.125	62.06
W2047501250/DX*	**4.750**	**4.500**	4.750	1.250	0.125	64.34
W2047501500/DX	**4.750**	**4.500**	4.750	1.500	0.125	74.53
W2047502625/DX*	**4.750**	**4.500**	4.750	2.625	0.125	102.72
W2050000500/DX	**5.000**	**4.750**	5.000	0.500	0.125	35.66
W2050000625/DX*	**5.000**	**4.750**	5.000	0.625	0.125	43.74
W2050000750/DX	**5.000**	**4.750**	5.000	0.750	0.125	53.31

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR DX series - POLY/RESIN

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2050000875/DX*	**5.000**	**4.750**	5.000	0.875	0.125	59.26
W2050001000/DX	**5.000**	**4.750**	5.000	1.000	0.125	61.52
W2050001000/DX-W	**5.000**	**4.750**	5.000	1.000	0.125	65.18
W2050001500/DX-W	**5.000**	**4.750**	5.000	1.500	0.125	82.11
W2050001750/DX*	**5.000**	**4.750**	5.000	1.750	0.125	99.89
W2050002000/DX*	**5.000**	**4.750**	5.000	2.000	0.125	127.10
W2052501000/DX	**5.250**	**5.000**	5.250	1.000	0.125	63.98
W2052501500/DX*	**5.250**	**5.000**	5.250	1.500	0.125	96.42
W2052502000/DX*	**5.250**	**5.000**	5.250	2.000	0.125	105.16
W2052503000/DX*	**5.250**	**5.000**	5.250	3.000	0.125	145.60
W2052503000/DX-W*	**5.250**	**5.000**	5.250	3.000	0.125	187.32
W2054371500/DX	**5.437**	**5.187**	5.437	1.500	0.125	113.24
W2055000500/DX*	**5.500**	**5.250**	5.500	0.500	0.125	82.20
W2055000750/DX*	**5.500**	**5.250**	5.500	0.750	0.125	51.59
W2055001000/DX	**5.500**	**5.250**	5.500	1.000	0.125	66.91
W2057500500/DX	**5.750**	**5.500**	5.750	0.500	0.125	38.98
W2057500750/DX	**5.750**	**5.500**	5.750	0.750	0.125	31.60
W2057502000/DX*	**5.750**	**5.500**	5.750	2.000	0.125	127.61
W2060000375/DX*	**6.000**	**5.750**	6.000	0.375	0.125	29.16
W2060000500/DX	**6.000**	**5.750**	6.000	0.500	0.125	42.53
W2060000750/DX	**6.000**	**5.750**	6.000	0.750	0.125	58.34
W2060000750/DX-BC*	**6.000**	**5.750**	6.000	0.750	0.125	58.34
W2060001000/DX	**6.000**	**5.750**	6.000	1.000	0.125	68.27
W2060001250/DX-BC*	**6.000**	**5.750**	6.000	1.250	0.125	84.28
W2060001250/DX-W	**6.000**	**5.750**	6.000	1.250	0.125	115.43
W2060001500/DX	**6.000**	**5.750**	6.000	1.500	0.125	98.16
W2062502500/DX	**6.250**	**6.000**	6.250	2.500	0.125	132.73
W2062502625/DX*	**6.250**	**6.000**	6.250	2.625	0.125	191.56
W2062503000/DX	**6.250**	**6.000**	6.250	3.000	0.125	201.60
W2062504750/DX*	**6.250**	**6.000**	6.250	4.750	0.125	176.49
W2065001500/DX*	**6.500**	**6.250**	6.500	1.500	0.125	109.35
W2067501000/DX*	**6.750**	**6.500**	6.750	1.000	0.125	83.87
W2070000750/DX	**7.000**	**6.750**	7.000	0.750	0.125	77.56
W2070001000/DX	**7.000**	**6.750**	7.000	1.000	0.125	87.26
W2070001500/DX*	**7.000**	**6.750**	7.000	1.500	0.125	112.37
W2070002500/DX*	**7.000**	**6.750**	7.000	2.500	0.125	204.43
W2072500750/DX	**7.250**	**7.000**	7.250	0.750	0.125	82.60
W2072503000/DX*	**7.250**	**7.000**	7.250	3.000	0.125	353.98
W2075002000/DX*	**7.500**	**7.250**	7.500	2.000	0.125	156.28
W2077501500/DX*	**7.750**	**7.500**	7.750	1.500	0.125	110.53
W2077501500/DX-W*	**7.750**	**7.500**	7.750	1.500	0.125	141.36
W2077504000/DX*	**7.750**	**7.500**	7.750	4.000	0.125	302.34
W2080000500/DX	**8.000**	**7.750**	8.000	0.500	0.125	53.44
W2080000750/DX	**8.000**	**7.750**	8.000	0.750	0.125	70.96

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2080001000/DX	**8.000**	**7.750**	8.000	1.000	0.125	93.39
W2080001250/DX	**8.000**	**7.750**	8.000	1.250	0.125	160.79
W2080001500/DX	**8.000**	**7.750**	8.000	1.500	0.125	116.92
W2080002000/DX*	**8.000**	**7.750**	8.000	2.000	0.125	179.18
W2082501000/DX*	**8.250**	**8.000**	8.250	1.000	0.125	131.23
W2090001000/DX	**9.000**	**8.750**	9.000	1.000	0.125	168.27
W2090001500/DX	**9.000**	**8.750**	9.000	1.500	0.125	158.23
W2092500750/DX*	**9.250**	**9.000**	9.250	0.750	0.125	93.89
W2092501000/DX*	**9.250**	**9.000**	9.250	1.000	0.125	190.33
W2095000750/DX*	**9.500**	**9.250**	9.500	0.750	0.125	94.84
W2095001500/DX	**9.500**	**9.250**	9.500	1.500	0.125	168.73
W2095007500/DX*	**9.500**	**9.250**	9.500	7.500	0.125	735.41
W2097501000/DX*	**9.750**	**9.500**	9.750	1.000	0.125	76.18
W2100000625/DX*	**10.000**	**9.750**	10.000	0.625	0.125	79.16
W2100000750/DX*	**10.000**	**9.750**	10.000	0.750	0.125	111.03
W2100001000/DX	**10.000**	**9.750**	10.000	1.000	0.125	123.41
W2100001250/DX	**10.000**	**9.750**	10.000	1.250	0.125	148.91
W2100001500/DX	**10.000**	**9.750**	10.000	1.500	0.125	179.05
W2100002000/DX*	**10.000**	**9.750**	10.000	2.000	0.125	217.89
W2100002625/DX*	**10.000**	**9.750**	10.000	2.625	0.125	210.57
WR100201000-135/DX*	**10.020**	**9.750**	10.020	1.000	0.125	137.74
W2105001000/DX	**10.500**	**10.250**	10.500	1.000	0.125	133.33
W2105003495/DX*	**10.500**	**10.250**	10.500	3.495	0.125	487.77
W2107501000/DX	**10.750**	**10.500**	10.750	1.000	0.125	182.91
W2108753500/DX*	**10.875**	**10.625**	10.875	3.500	0.125	471.11
W2110000500/DX-BC	**11.000**	**10.750**	11.000	0.500	0.125	65.88
W2110001000/DX-BC*	**11.000**	**10.750**	11.000	1.000	0.125	120.63
W2110001500/DX-BC*	**11.000**	**10.750**	11.000	1.500	0.125	186.66
W2110001625/DX*	**11.000**	**10.750**	11.000	1.625	0.125	194.61
W2110002000/DX	**11.000**	**10.750**	11.000	2.000	0.125	253.93
W2120000750/DX*	**12.000**	**11.750**	12.000	0.750	0.125	112.37
W2120001000/DX	**12.000**	**11.750**	12.000	1.000	0.125	144.74
W2120001000/DX-S*	**12.000**	**11.750**	12.000	1.000	0.125	174.20
W2120001500/DX	**12.000**	**11.750**	12.000	1.500	0.125	213.87
W2120002000/DX*	**12.000**	**11.750**	12.000	2.000	0.125	274.65
W2122501000/DX-BC	**12.250**	**12.000**	12.250	1.000	0.125	130.96
W2125001000/DX-BC	**12.250**	**12.000**	12.250	1.000	0.125	130.96
W2125001500/DX-BC	**12.500**	**12.250**	12.500	1.500	0.125	213.26
W2132501000/DX*	**13.250**	**13.000**	13.250	1.000	0.125	160.89
W2135001250/DX*	**13.500**	**13.250**	13.500	1.250	0.125	144.14
W2137501000/DX*	**13.750**	**13.500**	13.750	1.000	0.125	162.35
W2140001000/DX	**14.000**	**13.750**	14.000	1.000	0.125	152.58
W2140001500/DX	**14.000**	**13.750**	14.000	1.500	0.125	259.57
W2140002000/DX	**14.000**	**13.750**	14.000	2.000	0.125	386.46

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2140002250/SPR	**14.000**	**13.750**	14.000	2.250	0.125	490.89
W2142501250/DX	**14.250**	**14.000**	14.250	1.250	0.125	244.57
W2147501500/DX	**14.750**	**14.500**	14.750	1.500	0.125	409.62
W2155000375/DX	**15.500**	**15.250**	15.500	0.375	0.125	168.35
W2155001000/DX	**15.500**	**15.250**	15.500	1.000	0.125	309.91
W2155001500/DX*	**15.500**	**15.250**	15.500	1.500	0.125	424.34
W2155003000/DX*	**15.500**	**15.250**	15.500	3.000	0.125	974.10
W2157501000/DX	**15.750**	**15.500**	15.750	1.000	0.125	214.93
W2160000750/DX	**16.000**	**15.750**	16.000	0.750	0.125	174.65
W2160001000/DX	**16.000**	**15.750**	16.000	1.000	0.125	265.97
W2160001250/DX-BC	**16.000**	**15.750**	16.000	1.250	0.125	273.33
W2160001500/DX*	**16.000**	**15.750**	16.000	1.500	0.125	381.41
W2160001550/DX*	**16.000**	**15.750**	16.000	1.550	0.125	385.74
W2160002000/DX*	**16.000**	**15.750**	16.000	2.000	0.125	514.44
W2160002500/DX*	**16.000**	**15.750**	16.000	2.500	0.125	484.07
W2161302000/DX*	**16.130**	**15.880**	16.130	2.000	0.125	521.38
W2165001500/DX*	**16.500**	**16.250**	16.500	1.500	0.125	380.35
W2167501500/DX	**16.750**	**16.500**	16.750	1.500	0.125	380.35
W2175001500/DX	**17.500**	**17.250**	17.500	1.500	0.125	394.38
W2180001000/DX*	**18.000**	**17.750**	18.000	1.000	0.125	349.02
W2187501000/DX	**18.750**	**18.500**	18.750	1.000	0.125	400.26
W2187501250/DX	**18.750**	**18.500**	18.750	1.250	0.125	476.39
W2187501500/DX	**18.750**	**18.500**	18.750	1.500	0.125	515.44
W2200001500/DX	**20.000**	**19.750**	20.000	1.500	0.125	560.92
0.128" - Cross Section - 0.128"						
WR037500750-128/DX*	**3.750**	**3.494**	3.750	0.750	0.128	56.00
0.137" - Cross Section - 0.137"						
WR142754000-137/DX*	**14.275**	**14.000**	14.275	4.000	0.137	686.89
0.140" - Cross Section - 0.140"						
WR040301000-140/DX*	**4.030**	**3.750**	4.030	1.000	0.140	75.15
WR042801500-140/DX*	**4.280**	**4.000**	4.280	1.500	0.140	96.05
WR055301250-140/DX	**5.530**	**5.250**	5.530	1.250	0.140	82.30
WR060301250-140/DX	**6.030**	**5.750**	6.030	1.250	0.140	128.94
WR065301500-140/DX*	**6.530**	**6.250**	6.530	1.500	0.140	232.00
WR070302000-140/DX*	**7.030**	**6.750**	7.030	2.000	0.140	207.72
WR070303120-140/DX*	**7.030**	**6.750**	7.030	3.120	0.140	205.42
WR072801400-140/DX*	**7.280**	**7.000**	7.280	1.400	0.140	134.95
WR072802000-140/DX*	**7.250**	**7.000**	7.280	2.000	0.140	217.39
WR072803070-140/DX*	**7.280**	**7.000**	7.280	3.070	0.140	350.46
WR075302500-140/DX*	**7.530**	**7.250**	7.530	2.500	0.140	180.07
WR077801620-140/DX*	**7.780**	**7.500**	7.780	1.620	0.140	226.17

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.140" - Cross Section - 0.140"						
WR077803500-140/DX*	**7.780**	**7.500**	7.780	3.500	0.140	299.34
WR082801500-140/DX*	**8.280**	**8.000**	8.280	1.500	0.140	156.60
WR092801750-140/DX*	**9.280**	**9.000**	9.280	1.750	0.140	364.26
WR110303250-140/DX*	**11.030**	**10.750**	11.030	3.250	0.140	371.50
0.141" - Cross Section - 0.141"						
WR105302375-141/DX*	**10.530**	**10.250**	10.530	2.375	0.141	623.09
0.155" - Cross Section - 0.155"						
WR050601560-155/DX*	**5.060**	**4.750**	5.060	1.560	0.155	118.03
WR083101750-155/DX*	**8.310**	**8.000**	8.310	1.750	0.155	248.53
WR105602750-155/DX*	**10.560**	**10.250**	10.560	2.750	0.155	527.27
WR115603870-155/DX*	**11.560**	**11.250**	11.560	3.870	0.155	431.40
0.157" - Cross Section - 0.157"						
WR088141375-157/DX*	**8.814**	**8.500**	8.814	1.375	0.157	144.74
WR093141250-157/DX	**9.314**	**9.000**	9.314	1.250	0.157	326.96
WR110001750-157/DX	**11.000**	**10.687**	11.000	1.750	0.157	301.60
WR113141250-157/DX	**11.314**	**11.000**	11.314	1.250	0.157	217.26
WR123141250-157/DX	**12.314**	**12.000**	12.314	1.250	0.157	359.96
WR160002500-157/DX	**16.000**	**15.686**	16.000	2.500	0.157	666.89
3/16" - Cross Section - 0.187"						
W3037500500/DX*	**3.750**	**3.375**	3.750	0.500	0.187	44.70
W3038752625/DX*	**3.875**	**3.500**	3.875	2.625	0.187	107.36
W3052502000/DX*	**5.250**	**4.875**	5.250	2.000	0.187	108.71
W3055001250/DX*	**5.500**	**5.125**	5.500	1.250	0.187	128.49
W3058750500/DX*	**5.875**	**5.500**	5.875	0.500	0.187	65.52
W3060000500/DX*	**6.000**	**5.625**	6.000	0.500	0.187	65.52
W3060001250/DX*	**6.000**	**5.625**	6.000	1.250	0.187	141.94
W3063752000/DX*	**6.375**	**6.000**	6.375	2.000	0.187	172.60
W3063752750/DX*	**6.375**	**6.000**	6.375	2.750	0.187	238.52
W3065001625/DX*	**6.500**	**6.125**	6.500	1.625	0.187	195.11
W3075000750/DX	**7.500**	**7.125**	7.500	0.750	0.187	74.20
W3080000500/DX*	**8.000**	**7.625**	8.000	0.500	0.187	82.33
W3080001000/DX	**8.000**	**7.625**	8.000	1.000	0.187	93.39
W3082501000/DX*	**8.250**	**7.875**	8.250	1.000	0.187	101.56
W3093755995/DX*	**9.375**	**9.000**	9.375	5.995	0.187	487.77
W3100000625/DX*	**10.000**	**9.625**	10.000	0.625	0.187	95.78
W3100001000/DX*	**10.000**	**9.625**	10.000	1.000	0.187	136.54
W3100002000/DX*	**10.000**	**9.625**	10.000	2.000	0.187	279.22
W3120001000/DX	**12.000**	**11.625**	12.000	1.000	0.187	160.79
W3120001500/DX*	**12.000**	**11.625**	12.000	1.500	0.187	233.10
W3121251250/DX*	**12.125**	**11.750**	12.125	1.250	0.187	247.32

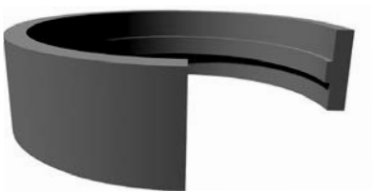
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W1 to W4 + WR DX series - POLY/RESIN

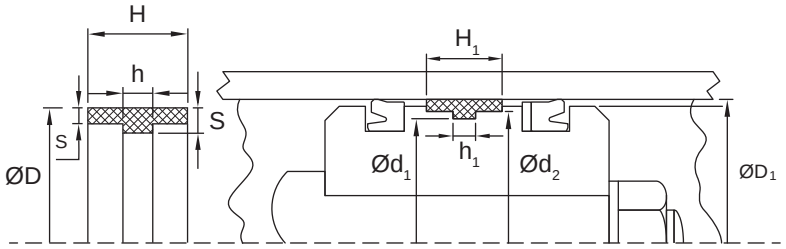
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
3/16" - Cross Section - 0.187"						
W3123751250/DX*	**12.375**	**12.000**	12.375	1.250	0.187	256.83
W3125002000/DX*	**12.500**	**12.125**	12.500	2.000	0.187	473.84
W3133755750/DX*	**13.375**	**13.000**	13.375	5.750	0.187	1672.84
W3135002000/DX	**13.500**	**13.125**	13.500	2.000	0.187	342.47
W3145005250/DX*	**14.500**	**14.125**	14.500	5.250	0.187	1952.06
W3150001500/DX*	**15.000**	**14.625**	15.000	1.500	0.187	368.45
W3150002500/DX*	**15.000**	**14.625**	15.000	2.500	0.187	634.48
W3160001500/DX*	**16.000**	**15.625**	16.000	1.500	0.187	381.41
W3160002000/DX	**16.000**	**15.625**	16.000	2.000	0.187	426.44
W31612515270/DX*	**16.125**	**15.750**	16.125	15.270	0.187	4005.20
W31612515270/DX/3PCS*	**16.125**	**15.750**	16.125	15.270	0.187	2319.99
W31700011302/DX/3PCS*	**17.000**	**16.625**	17.000	11.302	0.187	2173.50
0.192" - Cross Section - 0.192"						
WR075101250-192/DX*	**7.510**	**7.125**	7.510	1.250	0.192	141.37
WR125102000-192/DX*	**12.510**	**12.125**	12.510	2.000	0.192	455.80
WR135102000-192/DX*	**13.510**	**13.125**	13.510	2.000	0.192	549.23
WR145101750-192/DX*	**14.510**	**14.125**	14.510	1.750	0.192	530.56
WR150101250-192/DX*	**15.010**	**14.625**	15.010	1.250	0.192	464.16
WR150101500-192/DX*	**15.010**	**14.625**	15.010	1.500	0.192	589.82
0.193" - Cross Section - 0.193"						
WR160102000-193/DX	**16.010**	**15.625**	16.010	2.000	0.193	570.28

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.197" - Cross Section - 0.197"						
WR075201250-197/DX*	**7.520**	**7.125**	7.520	1.250	0.197	141.37
WR125202000-197/DX	**12.520**	**12.125**	12.520	2.000	0.197	455.80
WR135202000-197/DX*	**13.520**	**13.125**	13.520	2.000	0.197	549.23
WR145201750-197/DX*	**14.520**	**14.125**	14.520	1.750	0.197	530.56
WR150201250-197/DX*	**15.020**	**14.625**	15.020	1.250	0.197	464.16
WR150201500-197/DX*	**15.020**	**14.625**	15.020	1.500	0.197	589.82
WR150301250-197/DX*	**15.030**	**14.625**	15.030	1.250	0.197	589.82
0.202" - Cross Section - 0.202"						
WR075301250-202/DX*	**7.530**	**7.125**	7.520	1.250	0.202	141.37
WR082802000-202/DX*	**8.280**	**7.876**	8.280	2.000	0.202	262.38
WR100202000-202/DX*	**10.020**	**9.625**	10.020	2.000	0.202	353.08
WR125302000-202/DX*	**12.530**	**12.125**	12.530	2.000	0.202	455.80
WR145301750-202/DX*	**14.530**	**14.125**	14.530	1.750	0.202	530.56
WR150301500-202/DX*	**15.030**	**14.625**	15.030	1.500	0.202	589.82
1/4" - Cross Section - 0.250"						
W4112500500/DX*	**11.250**	**10.750**	11.250	0.500	0.250	184.16
W4120000500/DX*	**12.000**	**11.500**	12.000	0.500	0.250	83.70
0.265" - Cross Section - 0.265"						
WR082803500-265/DX*	**8.280**	**7.750**	8.280	3.500	0.265	500.99

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range
GF.Nylon	-40°F to +250°F (-40°C to +121°C)

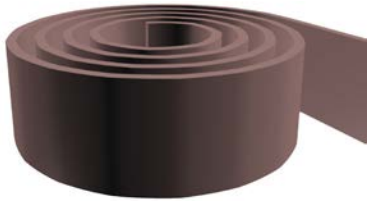


T-shaped wearbands are made from glass reinforced nylon and are found in some forklift and telescopic cylinders.They offer space saving advantages by allowing full piston length bearing contact and do not require side lands.

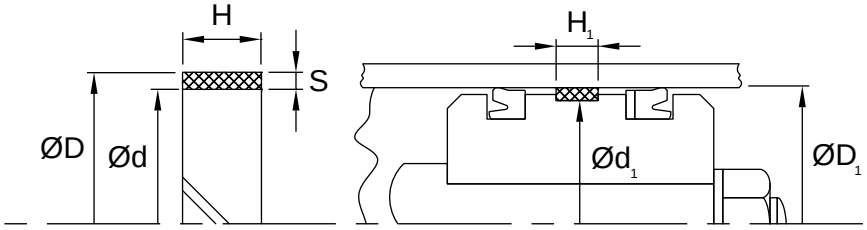
Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions						$
		Tol.	D	d	S	s	H	h	
TWR016250442*	**1.625**	+.003 -.000	1.625		0.160 / 0.165	0.062 / 0.067	0.432 / 0.442	0.180 / 0.185	7.14
TWR016250562*	**1.625**		1.625		0.160 / 0.165	0.062 / 0.067	0.552 / 0.562	0.180 / 0.185	7.35
TWR020000442*	**2.000**		2.000		0.160 / 0.165	0.062 / 0.067	0.432 / 0.442	0.180 / 0.185	7.92
TWR022500442*	**2.250**		2.250		0.160 / 0.165	0.062 / 0.067	0.432 / 0.442	0.180 / 0.185	7.64
TWR027500567*	**2.750**		2.750		0.157 / 0.163	0.062 / 0.067	0.557 / 0.567	0.180 / 0.185	7.84
TWR030000500*	**3.000**		3.000		0.145 / 0.155	0.062 / 0.067	0.490 / 0.510	0.180 / 0.185	O/R
TWR030000570*	**3.000**		3.000		0.145 / 0.155	0.062 / 0.067	0.560 / 0.570	0.180 / 0.185	8.08
TWR035000750	**3.500**		3.500		0.145 / 0.155	0.062 / 0.067	0.740 / 0.750	0.245 / 0.250	11.33
TWR040000570*	**4.000**	+.004 -.000	4.000		0.145 / 0.155	0.062 / 0.067	0.560 / 0.570	0.180 / 0.185	11.53
TWR045000750	**4.500**		4.500		0.145 / 0.155	0.062 / 0.067	0.740 / 0.750	0.245 / 0.250	12.23
TWR053750750*	**5.375**		5.375		0.145 / 0.155	0.062 / 0.067	0.740 / 0.750	0.245 / 0.250	O/R
TWR055000750	**5.500**		5.500		0.145 / 0.155	0.062 / 0.067	0.740 / 0.750	0.245 / 0.250	15.60
TWR060000630	**6.000**		6.000		0.145 / 0.155	0.062 / 0.067	0.620 / 0.630	0.245 / 0.250	17.10
TWR063750750*	**6.375**		6.375		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	28.19
TWR065000750	**6.500**	+.005 -.000	6.500		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	19.38
TWR073750750*	**7.375**		7.375		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	33.76
TWR075000750	**7.500**		7.500		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	21.05
TWR083750750*	**8.375**		8.375		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	59.70
TWR085000750	**8.500**		8.500		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	34.75
TWR097500750*	**9.750**		9.750		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	49.65

WS-BR60 - Wear Strip - Inch



Standard Material	Temperature Range	Surface Speed
60% BR.PTFE	-400°F to +550°F (-240°C to +287°C)	<50 ft/s (15 m/s)



The **WS-BR60-style** is made of fluorinated polymer and fortified bronze (other fillers available upon request). Designed to eliminate scoring in hydraulic and pneumatic applications by preventing metal to metal contact; **WS-Wear strip** is effectively used for reciprocating, rotary and oscillating motion.
The tape form allows the product to be installed economically, whether for new installation or repair.
The PTFE wear tape compound and width determines allowable radial load and velocity ranges.
Velocity : Up to 50 ft/s.

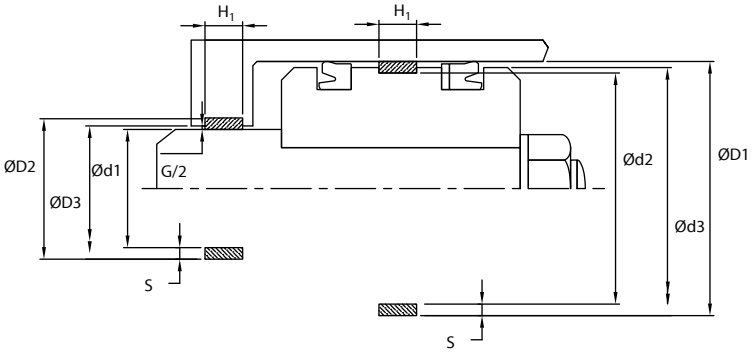
Alternate Materials : For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS00250062/BR60	0.250	+.000 -.010	0.062	+.000 -.005	18.10
WS00250093/BR60	0.250		0.093		19.30
WS00250125/BR60	0.250		0.125		20.40
WS00375062/BR60	0.375		0.062		15.71
WS00375093/BR60	0.375		0.093		22.54
WS00375125/BR60	0.375		0.125		25.64
WS00500062/BR60	0.500		0.062		26.53
WS00500093/BR60	0.500		0.093		29.82
WS00500125/BR60	0.500		0.125		33.53
WS00625062/BR60	0.625		0.062		36.83
WS00625093/BR60*	0.625		0.093		14.81
WS00625125/BR60	0.625		0.125		16.14
WS00750062/BR60	0.750		0.062		18.89
WS00750093/BR60	0.750		0.093		22.00
WS00750095/BR60*	0.750		0.095		23.78
WS00750125/BR60	0.750		0.125		25.64
WS00875125/BR60*	0.875		0.125		40.75
WS01000062/BR60	1.000		0.062		42.50

Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS01000093/BR60	1.000	+.000 -.010	0.093	+.000 -.005	45.67
WS01000125/BR40*	1.000		0.125		50.21
WS01000125/BR60	1.000		0.125		17.38
WS01250062/BR60	1.250		0.062		20.41
WS01250093/BR60*	1.250		0.093		15.53
WS01250125/BR60	1.250		0.125		31.68
WS01500062/BR60*	1.500	+.000 -.015	0.062		36.86
WS01500093/BR60*	1.500		0.093		40.49
WS01500125/BR60	1.500		0.125		43.91
WS01750062/BR60*	1.750		0.062		40.97
WS01750093/BR60*	1.750		0.093		49.80
WS01750125/BR60*	1.750		0.125		52.24
WS02000062/BR60*	2.000	+.000 -.020	0.062		47.50
WS02000093/BR60*	2.000		0.093		60.95
WS02000125/BR60	2.000		0.125		66.96
WS02500125/BR60*	2.500		0.125		O/R
WS03000125/BR60*	3.000		0.125		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range
Polyester Resin	-40°F à +250°F (-40°C à +121°C)

Made from fabric-reinforced polyester resin, the **WS-PR-style** bearing strip is designed for heavy-duty hydraulic systems. It eliminates metal-to-metal contact and resists scoring in reciprocating, oscillating, and rotary motion. Micro-indentations on the surface retain fluid for built-in lubrication. Compatible with mineral oils, water-based fluids, and phosphate esters.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Operating Conditions		
Limiting PV Values Lubricated	Speed ft/sec	pressure p.s.i.
	0.3	1500
	3.0	900
	16.0	120
Typical Physical Properties		
Specific Gravity	1.27	
Compression Stress at Failure	65000 psi @ 73°F	
Compression Stress at Yield	16500 psi @ 73°F	
Compression Stress at Yield	8500 psi @ 176°F	
Coefficient of Thermal Conductivity	0.16 Btu/htf°F	
Coefficient of Thermal Expansion - Thickness	5×10^{-5} per°F	
Coefficient of Thermal Expansion - Length	7.3×10^{-5} per°F	
Coefficient of Dynamic Friction on Steel	Dry 0.50	
	Lubricated 0.06	
Bearing Strip Tolerances	**L_1 in**	**S in**
	-0.005 -0.025	-0.001 -0.003

Width of Bearing Split - W	**$Ød_1$, $ØD_1$ in**	**W in**
	≤2	0.12 - 0.06
	≤5	0.19 - 0.14
	≤10	0.35 - 0.29
	≤22	0.67 - 0.59

Housing Details & Tolerances		
Rod	$Ød_1$ in	f9
	$ØD_2 = Ød_1 + 2S$ in	>Ø.3000 H9
	$ØD_3 = Ød_1 + G$ in	G min/max
	L_1 in	+0.008 - 0
	Max Fillet Rad r_1 in	0.016
Piston	$Ød_1$ in	H11
	$ØD_2 = Ød_1 - 2S$ in	f9
	$ØD_3 = Ød_1 - G$ in	G min/max
	L_1 in	+0.008 - 0
	Max Fillet Rad r_1 in	0.016

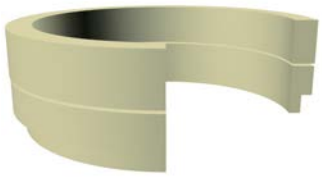
Housing Surface Roughness	**µinRa**	**µinRz**	**µinRt**
Dynamic Sealing Face $Ød_1$, $ØD_1$	16	63 max	157 max
Static Sealing Face $ØD_2$, L_1 $Ød_1$	125 max	394 max	630 max

WS-PR - Wear Strip - Polyester Resin

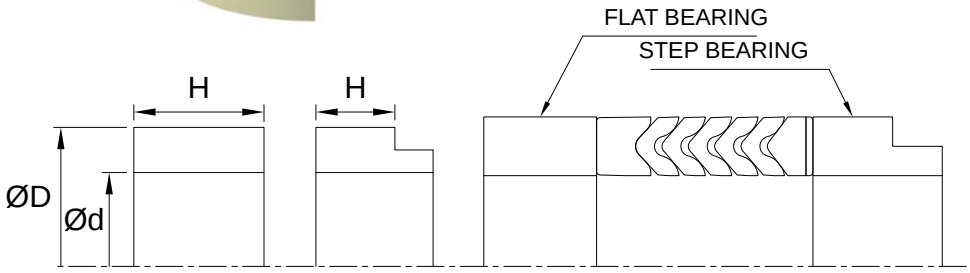
Ref.Number	Nominal Seal Dimensions				$
	S	L1	Od1	OD1	
WS00375125/PR1*	0.375	0.125	1.000 - 1.375	1.625 - 3.500	15.31
WS00375125/PR2*	0.375	0.125	1.250 - 1.875	2.125 - 4.250	15.31
WS00375125/PR3*	0.375	0.125	2.000 - 3.500	3.750 - 6.250	15.31
WS00500125/PR1*	0.500	0.125	1.250 - 1.750	2.000- 4.000	15.98
WS00500125/PR2*	0.500	0.125	1.750 - 3.500	3.750 - 6.250	15.98
WS00500125/PR3	0.500	0.125	3.500 - 6.000	6.250 - 10.000	15.98
WS00500125/PR4*	0.500	0.125	8.000 - 12.500	12.750 - 25.000	15.98
WS00625125/PR2*	0.625	0.125	3.500 - 6.000	6.250 - 10.000	20.02
WS00750125/PR1*	0.750	0.125	2.000 - 3.500	3.750 - 6.250	26.57
WS00750125/PR2	0.750	0.125	3.500 - 6.000	6.250 - 10.000	26.57
WS01000125/PR1*	1.000	0.125	2.500 - 3.500	3.750 - 6.250	27.43
WS01000125/PR2	1.000	0.125	3.500 - 6.000	6.250 - 10.000	27.43
WS01000125/PR3*	1.000	0.125	8.000 - 12.500	12.750 - 25.00	27.43

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Materials	Temperature Range
Nylon	-40°F to +250°F (-40°C to +121°C)



Flat Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions			$
		d	D	H	
COMMERCIAL INTERTECH					
CI-02750BRF	**2.750**	2.750	3.375	1.000	28.26
CI-03750BRF	**3.750**	3.750	4.375	1.000	28.30
CI-04750BRF	**4.750**	4.750	5.375	1.000	43.40
CI-05750BRF	**5.750**	5.750	6.375	1.000	49.92
CI-06750BRF	**6.750**	6.750	7.375	1.000	52.41
CI-07905BRF	**7.905**	7.905	8.543	1.000	79.01
CI-09375BRF	**9.375**	9.375	10.000	1.000	171.73

Step Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions				$
		d	D	H1	H2	
COMMERCIAL INTERTECH						

Flat Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions			$
		d	D	H	
HYCO					
HYC-03000BRF	**3.000**	3.000	3.500	0.750	29.10
HYC-04000BRF	**4.000**	4.000	4.500	0.750	28.27
HYC-05000BRF	**5.000**	5.000	5.500	0.750	29.80
HYC-06000BRF	**6.000**	6.000	6.500	0.750	35.19
HYC-07000BRF	**7.000**	7.000	7.500	0.750	39.43
HYC-08000BRF	**8.000**	8.000	8.500	0.750	47.78
HYC-08125BRF	**8.125**	8.125	8.625	0.750	75.15
HYC-08250BRF	**8.250**	8.250	9.000	0.750	90.55
HYC-09000BRF*	**9.000**	9.000	9.750	0.750	160.98
HYC-09125BRF	**9.125**	9.125	9.625	0.750	95.70
HYC-09375BRF	**9.375**	9.375	9.875	0.750	95.70
HYC-09750BRF*	**9.750**	9.750	10.500	0.750	116.17

Step Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions				$
		d	D	H1	H2	
HYCO						
HYC-03000BRS	**3.000**	3.000	3.500	0.445	0.570	16.10
HYC-04000BRS	**4.000**	4.000	4.500	0.445	0.570	16.10
HYC-05000BRS	**5.000**	5.000	5.500	0.445	0.570	16.93
HYC-06000BRS	**6.000**	6.000	6.500	0.445	0.570	20.06
HYC-07000BRS	**7.000**	7.000	7.500	0.445	0.570	21.81
HYC-08000BRS	**8.000**	8.000	8.500	0.445	0.570	26.41
HYC-08125BRS	**8.125**	8.125	8.625	0.445	0.570	75.35
HYC-08250BRS	**8.250**	8.250	9.000	0.445	0.570	86.06
HYC-09000BRS*	**9.000**	9.000	9.750	0.445	0.570	90.79
HYC-09125BRS	**9.125**	9.125	9.625	0.445	0.570	231.89
HYC-09375BRS	**9.375**	9.375	9.875	0.445	0.570	102.06
HYC-09750BRS*	**9.750**	9.750	10.500	0.445	0.570	111.34

Bearing forTelescopic Cylinders series - NYLON

Flat Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions			$
		d	D	H	
PEABODY GALION					
PG-02970BRF*	**2.970**	2.970	3.520	0.750	O/R
PG-03970BRF	**3.970**	3.970	4.520	0.750	O/R
PG-04970BRF	**4.970**	4.970	5.520	0.750	O/R
PG-05970BRF	**5.970**	5.970	6.650	0.750	O/R
PG-06970BRF*	**6.970**	6.970	7.520	0.750	O/R
PG-07970BRF*	**7.970**	7.970	8.520	0.750	O/R

Step Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions				$
		d	D	H1	H2	
PEABODY GALION						

Flat Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions			$
		d	D	H	
WARD					
WAR-02950BRF*	**2.950**	2.950	3.500	0.750	O/R
WAR-03950BRF*	**3.950**	3.950	4.500	0.750	O/R
WAR-04950BRF*	**4.950**	4.950	5.500	0.750	O/R
WAR-05950BRF*	**5.950**	5.950	6.500	0.750	O/R
WAR-06950BRF*	**6.950**	6.950	7.500	0.750	O/R
WAR-07950BRF*	**7.950**	7.950	8.500	0.750	O/R
WAR-08950BRF*	**8.950**	8.950	9.500	0.750	O/R

Step Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions				$
		d	D	H1	H2	
WARD						
WAR-02950BRS*	**2.950**	2.950	0.630	3.500	0.750	O/R
WAR-03950BRS*	**3.950**	3.950	0.630	4.500	0.750	O/R
WAR-04950BRS*	**4.950**	4.950	0.630	5.500	0.750	O/R
WAR-05950BRS*	**5.950**	5.950	0.630	6.500	0.750	O/R
WAR-06950BRS*	**6.950**	6.950	0.630	7.500	0.750	O/R
WAR-07950BRS*	**7.950**	7.950	0.630	8.500	0.750	O/R
WAR-08950BRS*	**8.950**	8.950	0.630	9.500	0.750	O/R

Flat Bearing

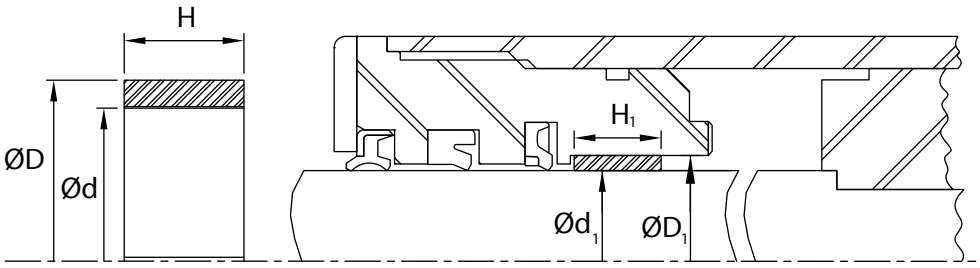
Ref.Number	Stage O.D.	Nominal Seal Dimensions			$
		d	D	H	
CUSTOM HOIST					
CH-1BU11/3 *	**3.000**	3.000	3.500	0.750	O/R
CH-1BU11/3187	**3.187**	3.187	3.687	0.750	43.86
CH-1BU11/4 *	**4.000**	4.000	4.500	0.750	O/R
CH-1BU11/4125	**4.125**	4.125	4.625	0.750	45.23
CH-1BU11/5 *	**5.000**	5.000	5.500	0.750	O/R
CH-1BU11/5062	**5.062**	5.062	5.562	0.750	45.50
CH-1BU11/6 *	**6.000**	6.000	6.500	0.750	O/R
CH-1BU11/7 *	**7.000**	7.000	7.500	0.750	O/R
CH-1BU11/8 *	**8.000**	8.000	8.500	0.750	O/R
CH-1BU11/825 *	**8.250**	8.250	8.625	0.750	O/R
CH-1BU11/912 *	**9.125**	9.125	9.625	0.750	O/R

Step Bearing

Ref.Number	Stage O.D.	Nominal Seal Dimensions				$
		d	D	H1	H2	
CUSTOM HOIST						
CH-1BU195/3*	**3.000**	3.000	3.500	0.500	0.750	O/R
CH-1BU195/4*	**4.000**	4.000	4.500	0.500	0.750	O/R
CH-1BU195/5*	**5.000**	5.000	5.500	0.500	0.750	O/R
CH-1BU195/6*	**6.000**	6.000	6.500	0.500	0.750	O/R
CH-1BU195/7*	**7.000**	7.000	7.500	0.500	0.750	O/R
CH-1BU195/8*	**8.000**	8.000	8.500	0.500	0.750	O/R
CH-1BU195/825*	**8.250**	8.250	8.625	0.500	0.750	136.15
CH-1BU195/912	**9.125**	9.125	9.625	0.500	0.750	88.87



Standard Material	Temperature Range
Nylon	-40°F to +250°F (-40°C to +121°C)



Nylon rod bearings offer a durable, low-friction solution for hydraulic cylinders, providing excellent wear resistance and preventing scoring on piston rods. Engineered from high-strength, filled nylon, they deliver stability under heavy loads and serve as an effective alternative to bronze or phenolic bearings. Available in solid or split designs, these bearings help guide and support the piston rod, promoting smooth operation and extending the overall lifespan of hydraulic systems.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-050-075-050*	**0.500**	**0.750**	0.500	O/R
54-075-100-050*	**0.750**	**1.000**	0.500	O/R
54-075-100-087*	**0.750**	**1.000**	0.875	O/R
54-075-125-050*	**0.750**	**1.250**	0.500	O/R
54-075-125-100*	**0.750**	**1.250**	1.000	O/R
54-1000-1050-050*	**10.000**	**10.500**	0.500	166.54
54-1000-1050-100*	**10.000**	**10.500**	1.000	186.56
54-100-150-025*	**1.000**	**1.500**	0.250	25.84
54-1012-1050-275DX*	**10.125**	**10.500**	2.750	532.73
54-125-150-100*	**1.250**	**1.500**	1.000	20.08
54-125-175-050*	**1.250**	**1.750**	0.500	19.91
54-125-175-075*	**1.250**	**1.750**	0.750	35.91
54-125-175-084*	**1.250**	**1.750**	0.844	O/R
54-125-175-100*	**1.250**	**1.750**	1.000	19.48
54-125-187-125*	**1.250**	**1.875**	1.250	O/R
54-125-187-150*	**1.250**	**1.875**	1.500	35.58
54-150-162-097*	**1.500**	**1.625**	0.975	O/R
54-150-175-075*	**1.500**	**1.750**	0.750	O/R
54-150-175-100*	**1.500**	**1.750**	1.000	9.14
54-150-200-041*	**1.500**	**2.000**	0.410	38.90
54-150-200-050*	**1.500**	**2.000**	0.500	38.90
54-150-200-058*	**1.500**	**2.000**	0.580	25.97

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-150-200-075*	**1.500**	**2.000**	0.750	14.96
54-150-200-100*	**1.500**	**2.000**	1.000	O/R
54-150-212-150*	**1.500**	**2.125**	1.500	48.98
54-150-300-037*	**1.500**	**3.000**	0.375	81.91
54-175-187-097*	**1.750**	**1.875**	0.975	O/R
54-175-200-100*	**1.750**	**2.000**	1.000	9.68
54-175-225-037*	**1.750**	**2.250**	0.375	37.47
54-175-225-040	**1.750**	**2.250**	0.406	13.84
54-175-225-043*	**1.750**	**2.250**	0.437	O/R
54-175-225-050*	**1.750**	**2.250**	0.500	37.92
54-175-225-058*	**1.750**	**2.250**	0.580	18.36
54-175-225-075*	**1.750**	**2.250**	0.750	14.16
54-175-225-087*	**1.750**	**2.250**	0.875	53.15
54-175-225-100*	**1.750**	**2.250**	1.000	O/R
54-175-250-050*	**1.750**	**2.500**	0.500	O/R
54-200-212-097*	**2.000**	**2.125**	0.975	O/R
54-200-212-100*	**2.000**	**2.125**	1.000	O/R
54-200-225-050*	**2.000**	**2.250**	0.500	O/R
54-200-225-075*	**2.000**	**2.250**	0.750	O/R
54-200-225-100*	**2.000**	**2.250**	1.000	10.00
54-200-225-150*	**2.000**	**2.250**	1.500	32.43
54-200-250-025	**2.000**	**2.500**	0.250	29.99

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

54 Bearing series - NYLON

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-200-250-050	**2.000**	**2.500**	0.500	15.57
54-200-250-058*	**2.000**	**2.500**	0.580	O/R
54-200-250-070*	**2.000**	**2.500**	0.700	O/R
54-200-250-075	**2.000**	**2.500**	0.750	15.36
54-200-250-087	**2.000**	**2.500**	0.875	24.81
54-200-250-100	**2.000**	**2.500**	1.000	36.89
54-200-250-150*	**2.000**	**2.500**	1.500	55.94
54-200-275-050*	**2.000**	**2.750**	0.500	O/R
54-200-275-100*	**2.000**	**2.750**	1.000	O/R
54-225-237-147*	**2.250**	**2.375**	1.475	19.00
54-225-250-050*	**2.250**	**2.500**	0.500	O/R
54-225-250-075*	**2.250**	**2.500**	0.750	O/R
54-225-250-125*	**2.250**	**2.500**	1.250	O/R
54-225-250-150*	**2.250**	**2.500**	1.500	O/R
54-225-250-155*	**2.250**	**2.500**	1.550	O/R
54-225-250-225*	**2.250**	**2.500**	2.250	O/R
54-225-275-050*	**2.250**	**2.750**	0.500	57.61
54-225-275-058*	**2.250**	**2.750**	0.580	O/R
54-225-275-075*	**2.250**	**2.750**	0.750	O/R
54-225-275-100*	**2.250**	**2.750**	1.000	44.70
54-225-280-200*	**2.250**	**2.800**	2.000	O/R
54-225-300-050*	**2.250**	**3.000**	0.500	O/R
54-225-300-075*	**2.250**	**3.000**	0.750	O/R
54-225-300-112*	**2.250**	**3.000**	1.125	O/R
54-237-287-100*	**2.375**	**2.875**	1.000	25.11
54-250-262-147*	**2.500**	**2.625**	1.475	O/R
54-250-275-050*	**2.500**	**2.750**	0.500	57.90
54-250-275-075*	**2.500**	**2.750**	0.750	O/R
54-250-275-100*	**2.500**	**2.750**	1.000	O/R
54-250-275-125*	**2.500**	**2.750**	1.250	12.10
54-250-275-155*	**2.500**	**2.750**	1.550	16.86
54-250-300-025*	**2.500**	**3.000**	0.250	13.14
54-250-300-040*	**2.500**	**3.000**	0.406	O/R
54-250-300-050	**2.500**	**3.000**	0.500	43.79
54-250-300-058*	**2.500**	**3.000**	0.580	O/R
54-250-300-062*	**2.500**	**3.000**	0.625	32.46
54-250-300-075	**2.500**	**3.000**	0.750	16.03
54-250-300-087*	**2.500**	**3.000**	0.875	56.33
54-250-300-100*	**2.500**	**3.000**	1.000	50.99
54-250-300-137*	**2.500**	**3.000**	1.375	76.23
54-250-300-150*	**2.500**	**3.000**	1.500	26.53
54-250-312-050*	**2.500**	**3.125**	0.500	O/R
54-250-312-100*	**2.500**	**3.125**	1.000	86.19
54-250-325-075*	**2.500**	**3.250**	0.750	O/R
54-250-501-075*	**2.500**	**5.010**	0.750	256.99
54-262-337-050*	**2.625**	**3.375**	0.500	38.38

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-275-300-155*	**2.750**	**3.000**	1.550	O/R
54-275-325-075*	**2.750**	**3.250**	0.750	60.20
54-275-325-100	**2.750**	**3.250**	1.000	30.17
54-275-325-150*	**2.750**	**3.250**	1.500	O/R
54-275-337-100*	**2.750**	**3.375**	1.000	O/R
54-295-350-037*	**2.950**	**3.500**	0.375	O/R
54-295-350-100*	**2.950**	**3.500**	1.000	O/R
54-300-312-147*	**3.000**	**3.125**	1.475	O/R
54-300-318-087DX	**3.000**	**3.187**	0.870	61.46
54-300-325-025*	**3.000**	**3.250**	0.250	O/R
54-300-325-075*	**3.000**	**3.250**	0.750	O/R
54-300-325-100*	**3.000**	**3.250**	1.000	O/R
54-300-325-125*	**3.000**	**3.250**	1.250	O/R
54-300-325-150*	**3.000**	**3.250**	1.500	O/R
54-300-325-175*	**3.000**	**3.250**	1.750	O/R
54-300-325-200*	**3.000**	**3.250**	2.000	O/R
54-300-325-225*	**3.000**	**3.250**	2.250	O/R
54-300-350-047*	**3.000**	**3.500**	0.470	O/R
54-300-350-050*	**3.000**	**3.500**	0.500	12.26
54-300-350-075	**3.000**	**3.500**	0.750	17.63
54-300-350-087*	**3.000**	**3.500**	0.875	61.50
54-300-350-100*	**3.000**	**3.500**	1.000	25.44
54-300-350-150*	**3.000**	**3.500**	1.500	32.96
54-300-362-062*	**3.000**	**3.625**	0.625	O/R
54-300-375-050*	**3.000**	**3.750**	0.500	O/R
54-300-375-075*	**3.000**	**3.750**	0.750	O/R
54-300-375-100*	**3.000**	**3.750**	1.000	O/R
54-300-375-150*	**3.000**	**3.750**	1.500	O/R
54-312-350-075*	**3.125**	**3.500**	0.750	O/R
54-312-350-084*	**3.125**	**3.500**	0.845	O/R
54-325-350-155*	**3.250**	**3.500**	1.550	17.66
54-325-362-037*	**3.250**	**3.625**	0.375	O/R
54-325-362-225*	**3.250**	**3.625**	2.250	O/R
54-325-375-100*	**3.250**	**3.750**	1.000	65.44
54-325-375-125*	**3.250**	**3.750**	1.250	75.25
54-337-387-100*	**3.375**	**3.875**	1.000	O/R
54-350-375-075*	**3.500**	**3.750**	0.750	O/R
54-350-375-100*	**3.500**	**3.750**	1.000	O/R
54-350-375-125*	**3.500**	**3.750**	1.250	O/R
54-350-375-150*	**3.500**	**3.750**	1.500	O/R
54-350-375-175*	**3.500**	**3.750**	1.750	O/R
54-350-375-200*	**3.500**	**3.750**	2.000	O/R
54-350-375-250*	**3.500**	**3.750**	2.500	O/R
54-350-375-300*	**3.500**	**3.750**	3.000	O/R
54-350-375-325*	**3.500**	**3.750**	3.250	O/R
54-350-400-025*	**3.500**	**4.000**	0.250	9.54

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-350-400-047*	**3.500**	**4.000**	0.470	O/R
54-350-400-050*	**3.500**	**4.000**	0.500	34.29
54-350-400-075	**3.500**	**4.000**	0.750	62.78
54-350-400-087*	**3.500**	**4.000**	0.875	63.82
54-350-400-100*	**3.500**	**4.000**	1.000	48.73
54-350-400-175*	**3.500**	**4.000**	1.750	123.64
54-350-400-300*	**3.500**	**4.000**	3.000	163.45
54-350-425-050*	**3.500**	**4.250**	0.500	36.58
54-350-425-075*	**3.500**	**4.250**	0.750	81.02
54-350-425-100*	**3.500**	**4.250**	1.000	O/R
54-350-425-150*	**3.500**	**4.250**	1.500	O/R
54-350-425-200*	**3.500**	**4.250**	2.000	O/R
54-350-425-250*	**3.500**	**4.250**	2.500	208.14
54-375-400-050*	**3.750**	**4.000**	0.500	O/R
54-375-400-100*	**3.750**	**4.000**	1.000	O/R
54-375-400-174/DX*	**3.750**	**4.000**	1.740	O/R
54-375-425-050*	**3.750**	**4.250**	0.500	O/R
54-375-425-075*	**3.750**	**4.250**	0.750	O/R
54-375-425-100*	**3.750**	**4.250**	1.000	32.09
54-375-437-087*	**3.750**	**4.375**	0.875	O/R
54-375-437-100*	**3.750**	**4.375**	1.000	O/R
54-395-450-037*	**3.950**	**4.500**	0.375	O/R
54-395-450-100*	**3.950**	**4.500**	1.000	O/R
54-395-450-112*	**3.950**	**4.500**	1.125	O/R
54-399-454-100*	**3.990**	**4.540**	1.000	O/R
54-400-437-150*	**4.000**	**4.375**	1.500	O/R
54-400-437-200*	**4.000**	**4.375**	2.000	O/R
54-400-437-250*	**4.000**	**4.375**	2.500	O/R
54-400-437-275*	**4.000**	**4.375**	2.750	O/R
54-400-437-300*	**4.000**	**4.375**	3.000	O/R
54-400-437-325*	**4.000**	**4.375**	3.250	O/R
54-400-450-025*	**4.000**	**4.500**	0.250	9.68
54-400-450-037*	**4.000**	**4.500**	0.375	O/R
54-400-450-050*	**4.000**	**4.500**	0.500	49.58
54-400-450-075*	**4.000**	**4.500**	0.750	17.63
54-400-450-084*	**4.000**	**4.500**	0.845	O/R
54-400-450-087*	**4.000**	**4.500**	0.875	42.90
54-400-450-093*	**4.000**	**4.500**	0.937	45.25
54-400-450-100*	**4.000**	**4.500**	1.000	27.66
54-400-450-112*	**4.000**	**4.500**	1.125	107.75
54-400-450-125*	**4.000**	**4.500**	1.250	108.65
54-400-450-150*	**4.000**	**4.500**	1.500	56.06
54-400-450-175*	**4.000**	**4.500**	1.750	113.31
54-400-450-200*	**4.000**	**4.500**	2.000	115.76
54-400-450-275*	**4.000**	**4.500**	2.750	127.26
54-400-462-100*	**4.000**	**4.625**	1.000	O/R
54-400-475-100*	**4.000**	**4.750**	1.000	O/R
54-400-500-125*	**4.000**	**5.000**	1.250	O/R
54-400-550-075*	**4.000**	**5.500**	0.750	O/R
54-412-450-050*	**4.125**	**4.500**	0.500	O/R
54-425-475-100*	**4.250**	**4.750**	1.000	45.55
54-450-500-025*	**4.500**	**5.000**	0.250	13.46
54-450-500-045*	**4.500**	**5.000**	0.450	51.57
54-450-500-050*	**4.500**	**5.000**	0.500	51.57
54-450-500-062*	**4.500**	**5.000**	0.625	67.60
54-450-500-075*	**4.500**	**5.000**	0.750	48.03
54-450-500-100*	**4.500**	**5.000**	1.000	72.16
54-450-512-031*	**4.500**	**5.125**	0.312	O/R
54-475-525-100*	**4.750**	**5.250**	1.000	O/R
54-475-525-200*	**4.750**	**5.250**	2.000	O/R
54-475-537-100*	**4.750**	**5.375**	1.000	O/R
54-495-550-037*	**4.950**	**5.500**	0.375	O/R
54-495-550-112*	**4.950**	**5.500**	1.125	O/R
54-499-554-050*	**4.990**	**5.540**	0.500	O/R
54-499-554-100*	**4.990**	**5.540**	1.000	O/R
54-500-525-100*	**5.000**	**5.250**	1.000	O/R
54-500-525-125*	**5.000**	**5.250**	1.250	O/R
54-500-550-025*	**5.000**	**5.500**	0.250	49.34
54-500-550-050*	**5.000**	**5.500**	0.500	53.63
54-500-550-062*	**5.000**	**5.500**	0.625	69.64
54-500-550-075*	**5.000**	**5.500**	0.750	18.78
54-500-550-084*	**5.000**	**5.500**	0.845	O/R
54-500-550-087*	**5.000**	**5.500**	0.875	49.51
54-500-550-093	**5.000**	**5.500**	0.937	47.32
54-500-550-100*	**5.000**	**5.500**	1.000	34.23
54-500-550-150*	**5.000**	**5.500**	1.500	75.46
54-500-550-175*	**5.000**	**5.500**	1.750	135.26
54-500-550-212*	**5.000**	**5.500**	2.125	129.23
54-500-600-048*	**5.000**	**6.000**	0.480	73.77
54-500-650-075*	**5.000**	**6.500**	0.750	O/R
54-500-900-150	**5.000**	**9.000**	1.500	535.65
54-512-562-100*	**5.125**	**5.625**	1.000	O/R
54-525-700-075*	**5.250**	**7.000**	0.750	O/R
54-550-600-050*	**5.500**	**6.000**	0.500	55.87
54-550-600-075*	**5.500**	**6.000**	0.750	74.30
54-550-600-100*	**5.500**	**6.000**	1.000	78.19
54-550-600-112*	**5.500**	**6.000**	1.125	84.46
54-575-600-100*	**5.750**	**6.000**	1.000	O/R
54-575-612-200*	**5.750**	**6.125**	2.000	O/R
54-575-612-250*	**5.750**	**6.125**	2.500	O/R
54-575-612-300*	**5.750**	**6.125**	3.000	O/R
54-575-612-350*	**5.750**	**6.125**	3.500	O/R

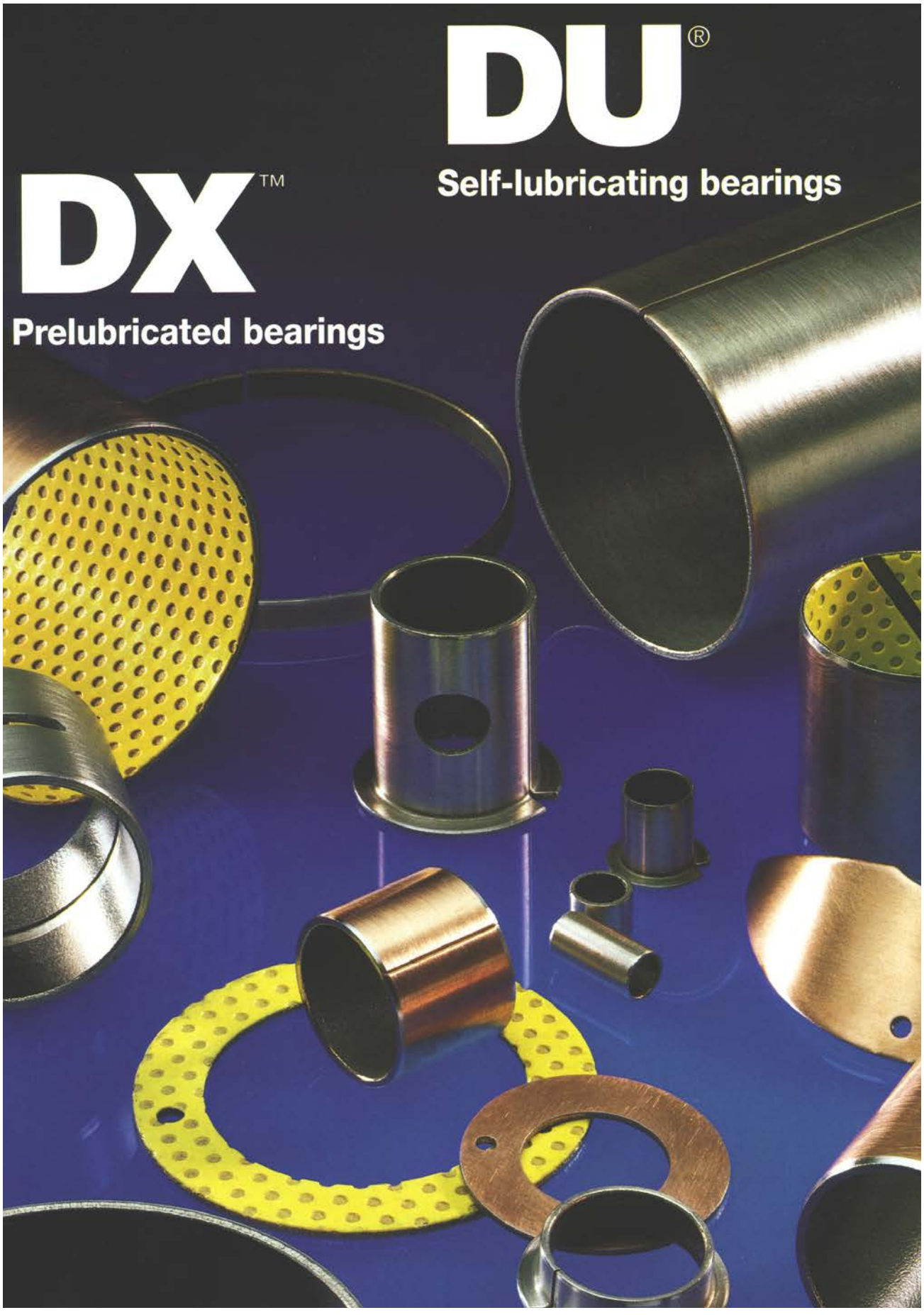
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

54 Bearing series - NYLON

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-575-625-100*	**5.750**	**6.250**	1.000	O/R
54-575-637-100*	**5.750**	**6.375**	1.000	O/R
54-595-650-037*	**5.950**	**6.500**	0.375	12.57
54-595-650-050*	**5.950**	**6.500**	0.500	O/R
54-595-650-100*	**5.950**	**6.500**	1.000	O/R
54-599-654-100*	**5.990**	**6.540**	1.000	O/R
54-600-650-050*	**6.000**	**6.500**	0.500	58.30
54-600-650-075*	**6.000**	**6.500**	0.750	22.24
54-600-650-084*	**6.000**	**6.500**	0.845	O/R
54-600-650-087*	**6.000**	**6.500**	0.875	55.96
54-600-650-093*	**6.000**	**6.500**	0.937	49.72
54-600-650-100*	**6.000**	**6.500**	1.000	36.11
54-625-800-087*	**6.250**	**8.000**	0.875	O/R
54-650-700-050*	**6.500**	**7.000**	0.500	60.72
54-650-700-075*	**6.500**	**7.000**	0.750	80.75
54-650-700-100*	**6.500**	**7.000**	1.000	84.91
54-675-750-050*	**6.750**	**7.500**	0.500	O/R
54-695-750-037*	**6.950**	**7.500**	0.375	O/R
54-695-750-050*	**6.950**	**7.500**	0.500	O/R
54-695-750-100*	**6.950**	**7.500**	1.000	O/R
54-700-737-300*	**7.000**	**7.375**	3.000	O/R
54-700-750-050*	**7.000**	**7.500**	0.500	63.76
54-700-750-075*	**7.000**	**7.500**	0.750	O/R
54-700-750-100*	**7.000**	**7.500**	1.000	36.28
54-750-800-050*	**7.500**	**8.000**	0.500	66.51

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-750-800-100*	**7.500**	**8.000**	1.000	92.96
54-750-800-150*	**7.500**	**8.000**	1.500	162.52
54-800-825-100*	**8.000**	**8.250**	1.000	O/R
54-800-825-150*	**8.000**	**8.250**	1.500	O/R
54-800-825-200*	**8.000**	**8.250**	2.000	O/R
54-800-825-225*	**8.000**	**8.250**	2.250	O/R
54-800-850-075*	**8.000**	**8.500**	0.750	O/R
54-800-850-100*	**8.000**	**8.500**	1.000	39.10
54-825-875-100*	**8.250**	**8.750**	1.000	103.09
54-825-900-050*	**8.250**	**9.000**	0.500	117.30
54-825-900-075*	**8.250**	**9.000**	0.750	O/R
54-825-900-100*	**8.250**	**9.000**	1.000	O/R
54-850-900-050*	**8.500**	**9.000**	0.500	113.67
54-850-900-100*	**8.500**	**9.000**	1.000	133.73
54-900-950-050*	**9.000**	**9.500**	0.500	153.10
54-900-950-100*	**9.000**	**9.500**	1.000	165.75
54-900-975-050*	**9.000**	**9.750**	0.500	O/R
54-900-975-075*	**9.000**	**9.750**	0.750	O/R
54-900-975-100*	**9.000**	**9.750**	1.000	O/R
54-937-1000-100*	**9.375**	**10.000**	1.000	O/R
54-962-1012-100*	**9.625**	**10.125**	1.000	O/R
54-975-1050-050*	**9.750**	**10.500**	0.500	O/R
54-975-1050-100*	**9.750**	**10.500**	1.000	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**


DU®
Self-lubricating bearings
DX™
Prelubricated bearings

"DU" BEARING - UP to 2"

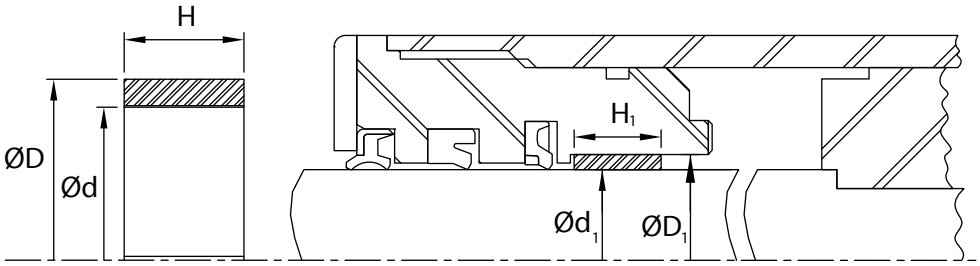
Nominal Bearing Bore	Recommended		Installed Bearing ID*	Bearing length and Part Number											
	Shaft Dia.	Housing Bore													
1/8	.1243 .1236	.1873 .1878	.1243 .1268	**1/8**	GB02DU02	**3/16**	GB02DU03								
5/32	.1554 .1547	.2186 .2191	.1556 .1581	**5/32**	GB025DU025	**1/4**	GB025DU04								
3/16	.1865 .1858	.2497 .2503	.1867 .1893	**3/16**	GB03DU03	**1/4**	GB03DU04	**3/8**	GB03DU06						
1/4	.2490 .2481	.3122 .3128	.2492 .2518	**1/4**	GB04DU04	**3/8**	GB04DU06								
5/16	.3115 .3106	.3747 .3753	.3117 .3143	**3/8**	GB05DU06	**1/2**	GB05DU08								
3/8	.3740 .3731	.4684 .4691	.3742 .3769	**3/16**	GB06DU03	**1/4**	GB06DU04	**3/8**	GB06DU06	**1/2**	GB06DU08	**5/8**	GB06DU10	**3/4**	GB06DU12
7/16	.4365 .4355	.5309 .5316	.4367 .4394	**1/2**	GB07DU08	**3/4**	GB07DU12								
1/2	.4990 .4980	.5934 .5941	.4992 .5019	**1/4**	GB08DU04	**3/8**	GB08DU06	**1/2**	GB08DU08	**5/8**	GB08DU10	**3/4**	GB08DU12	**7/8**	GB08DU14
9/16	.5615 .5605	.6559 .6566	.5617 .5644	**3/8**	GB09DU06	**1/2**	GB09DU08	**5/8**	GB09DU10	**3/4**	GB09DU12				
5/8	.6240 .6230	.7184 .7192	.6242 .6270	**1/4**	GB10DU04	**1/2**	GB10DU08	**5/8**	GB10DU10	**3/4**	GB10DU12	**7/8**	GB10DU14	**1**	GB10DU16
11/16	.6865 .6855	.7809 .7817	.6867 .6895	**7/8**	GB11DU14	**3/4**	GB11DU12								
3/4	.7491 .7479	.8747 .8755	.7493 .7525	**1/4**	GB12DU04	**3/8**	GB12DU06	**1/2**	GB12DU08	**5/8**	GB12DU10	**3/4**	GB12DU12	**1**	GB12DU16
13/16	.8116 .8104	.9372 .9380	.8110 .8150	**3/4**	GB13DU12	**1 1/8**	GB12DU18								
7/8	.8741 .8729	.9997 1.0005	.8743 .8775	**1/4**	GB14DU04	**3/8**	GB14DU06	**3/4**	GB14DU12	**1**	GB14DU16	**1 1/4**	GB14DU20		
1	.9991 .9979	1.1247 1.1255	.9993 1.0025	**3/8**	GB16DU06	**1/2**	GB16DU08	**3/4**	GB16DU12	**1**	GB16DU16	**1 1/4**	GB16DU20	**1 1/2**	GB16DU24
1 1/8	1.1238 1.1226	1.2808 1.2818	1.1240 1.1278	**3/8**	GB18DU06	**5/8**	GB18DU10	**3/4**	GB18DU12	**1**	GB18DU16				
1 1/4	1.2488 1.2472	1.4058 1.4068	1.2490 1.2528	**3/8**	GB20DU06	**3/4**	GB20DU12	**7/8**	GB20DU14	**1**	GB20DU16	**1 1/4**	GB20DU20	**1 3/4**	GB20DU28
1 3/8	1.3738 1.3722	1.5308 1.5318	1.3740 1.3778	**3/4**	GB22DU12	**1**	GB22DU16	**1 1/2**	GB20DU24	**1 3/4**	GB22DU28				
1 1/2	1.4988 1.4972	1.6558 1.6568	1.4990 1.5028	**1/2**	GB24DU08	**1**	GB24DU16	**1 1/8**	GB20DU18	**1 1/4**	GB24DU20	**1 1/2**	GB20DU24	**2**	GB20DU32
1 5/8	1.6238 1.6222	1.7808 1.7818	1.6240 1.6278	**1**	GB26DU16	**1 1/2**	GB26DU24								
1 3/4	1.7487 1.7471	1.9371 1.9381	1.7489 1.7535	**1**	GB28DU16	**1 1/2**	GB28DU24	**2**	GB28DU32						
1 7/8	1.8737 1.8721	2.0621 2.0633	1.8739 1.8787	**3/4**	GB30DU12	**1**	GB30DU16	**2 1/4**	GB30DU36						
2	1.9987 1.9969	2.1871 2.1883	1.9989 2.0037	**1/2**	GB32DU08	**1**	GB32DU16	**1 1/2**	GB32DU24	**1 3/4**	GB32DU28	**2**	GB32DU32	**2 1/2**	GB32DU40

Nominal Bearing Bore	Recommended		Installed Bearing ID *	Bearing Length and Part Number											
	Shaft Dia.	Housing Bore													
2 1/8	2.1257 2.1239	2.3118 2.3130	2.1262 2.1326	**3**	GB34DU48										
2 1/4	2.2507 2.2489	2.4365 2.4377	2.2509 2.573	**1 3/4**	GB36DU28	**2**	GB36DU32	2 1/2	GB36DU40	3	GB36D48	**3 1/2**	GB36DU56	3 3/4	GB36DU60
2 1/2	2.5011 2.4993	2.6869 2.6881	2.5013 2.5077	**1**	GB40DU16	**1 5/8**	GB40DU26	**2**	GB40DU32	2 1/2	GB40DU40	**3**	GB40DU48	3 1/2	GB40DU56
2 3/4	2.7500 2.7482	2.9358 2.9370	2.7502 2.7566	**2**	GB44DU32	**2 1/4**	GB44DU36	**2 1/2**	GB44DU40	3	GB44DU48	**3 1/2**	GB44DU56	3 3/4	GB44DU60
2 7/8	2.8752 2.8734	3.0610 3.0623	2.8754 2.8819	**2**	GB46DU32	**2 1/4**	GB46DU36	**2 1/2**	GB46DU40	3	GB46DU48	**3 1/2**	GB46DU56	3 3/4	GB46DU60
3	3.0000 2.9982	3.1858 3.1872	3.0002 3.0068	**2**	GB48DU32	**2 1/4**	GB48DU36	**2 1/2**	GB48DU40	**3**	GB48DU48	**3 1/2**	GB48DU56	**3 3/4**	GB48DU60
3 1/4	3.2500 3.2480	3.4358 3.4372	3.2502 3.2568	**2**	GB52DU32	**2 3/8**	GB52DU38	**2 1/2**	GB52DU40	**3**	GB52U48	**3 1/2**	GB52DU56	**3 3/4**	GB52DU60
3 1/2	3.5000 3.4978	3.6858 3.6872	3.5002 3.5068	**2**	GB56DU36	**2 3/8**	GB56DU38	**2 1/2**	GB56DU40	**3**	GB56DU48	**3 1/2**	GB56DU56	**3 3/4**	GB56DU60
3 5/8	3.6250 3.6228	3.8108 3.8122	3.6252 3.6318	**2**	GB58DU32	**2 1/4**	GB58DU36	**2 1/2**	GB58DU40	**3**	GB58DU48	**3/2**	GB58DU56	**3 3/4**	GB58DU60
3 3/4	3.7500 3.7478	3.9358 3.9372	3.7502 3.7568	**2**	GB60DU32	**2 1/4**	GB60DU36	**2 1/2**	GB60DU40	**3**	GB60DU48	**3 1/2**	GB60DU56	**3 3/4**	GB60DU60
4	4.0000 3.9978	4.1858 4.1872	4.0002 4.0068	**2**	GB64DU32	**2 1/4**	GB64DU36	**2 1/2**	GB64DU40	**3**	GB64DU48	**3 1/2**	GB64DU56	**3 3/4**	GB64DU60
4 1/4	4.2500 4.2478	4.4358 4.4372	4.2502 4.2568	**2**	GB68DU32	**2 1/4**	GB68DU36	**2 1/2**	GB68DU40	**3**	GB68DU48	**3 1/2**	GB68DU56	**3 3/4**	GB68DU60
4 3/8	4.3750 4.3728	4.5608 4.5622	4.3752 4.3818	**2**	GB70DU32	**2 1/4**	GB70DU36	**2 1/2**	GB70DU40	**3**	GB70GU48	**3 1/2**	GB70DU56	**3 3/4**	GB70DU60
4 1/2	4.5000 4.4978	4.6858 4.6872	4.5002 4.5068	**2**	GB72DU32	**2 1/4**	GB72DU36	**2 1/2**	GB72DU40	**3**	GB72DU48	**3 1/2**	GB72DU56	**3 3/4**	GB72DU60
4 3/4	4.7500 4.7475	4.9358 4.9374	4.7502 4.7572	**2**	GB76DU32	**2 1/4**	GB76DU36	**2 1/2**	GB76DU40	**3**	GB76DU48	**3 1/2**	GB76DU56	**3 3/4**	GB76DU60
5	4.9986 4.9961	5.1844 5.1860	4.9988 5.0056	**2**	GB80DU32	**2 1/4**	GB80DU36	**2 1/2**	GB80DU40	**3**	GB80DU48	**3 1/2**	GB80DU56	**3 3/4**	GB80DU60
5 1/4	5.2500 5.2475	5.4358 5.4374	5.2502 5.2570	**2**	GB84DU32	**2 1/4**	GB84DU36	**2 1/2**	GB84DU40	**3**	GB84DU48	**3 1/2**	GB84DU56	**3 3/4**	GB84DU60
5 1/2	5.5000 4.4975	5.6858 5.6874	5.5002 5.5070	**2**	GB88DU32	**2 1/4**	GB88DU36	**2 1/2**	GB88DU40	**3**	GB88DU48	**3 1/2**	GB88DU56	**3 3/4**	GB88DU60
5 3/4	5.7500 5.7475	5.9358 5.9374	5.7502 5.7570	**2**	GB92DU32	**2 1/4**	GB92DU36	**2 1/2**	GB92DU40	**3**	GB92DU48	**3 1/2**	GB92DU56	**3 3/4**	GB92DU60
6	6.0000 5.9975	6.1858 6.1874	6.0002 6.0070	**2**	GB96DU32	**2 1/4**	GB96DU36	**2 1/2**	GB96DU40	**3**	GB96DU48	**3 1/2**	GB96DU56	**3 3/4**	GB96DU60
6 1/4	6.2500 6.2475	6.4358 6.4374	6.2502 6.2570	**2**	GB100DU32	**2 1/4**	GB100DU36	**2 1/2**	GB100DU40	**3**	GB100DU48	**3 1/2**	GB100DU56	**3 3/4**	GB100DU60
6 1/2	6.5000 6.2475	6.6858 6.6874	6.5002 6.5070	**2**	GB104DU32	**2 1/4**	GB104DU36	**2 1/2**	GB104DU40	**3**	GB104DU48	**3 1/2**	GB104DU56	**3 3/4**	GB104DU60
6 3/4	6.7500 6.7475	6.9358 6.9374	6.7502 6.7570	**2**	GB108DU32	**2 1/4**	GB108DU36	**2 1/2**	GB108DU40	**3**	GB108DU48	**3 1/2**	GB108DU56	**3 3/4**	GB108DU60

“DU” BEARING - Inch



Standard Material	Temperature Range	Compressive Strength	Surface Speed
BR.PTFE/Steel	-328°F to +536°F (-200°C to +280°C)	≤44 000 psi (≤3035 bar)	<8.2 ft/s (2.5 m/s) dry <16 ft/s (5 m/s) lubricated



“DU” bearings are self-lubricating, metal-backed plain bearings with very good wear and friction performance over a wide range of loads, speeds and temperature conditions. They are suitable for linear. oscillating and rotating movements

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Rod Dia.	Nominal Seal Dimensions			$
		d	D	H	
GB025DU025*	**0.156**	0.155	0.218	0.155	2.28
GB025DU04*	**0.156**	0.155	0.218	0.250	2.50
GB02DU02*	**0.125**	0.125	0.187	0.125	2.28
GB02DU03*	**0.125**	0.125	0.187	0.187	2.28
GB03DU03*	**0.187**	0.187	0.250	0.187	2.50
GB03DU04*	**0.187**	0.187	0.250	0.250	2.71
GB03DU06*	**0.187**	0.187	0.250	0.375	2.93
GB04DU04*	**0.250**	0.250	0.312	0.250	3.71
GB04DU06*	**0.250**	0.250	0.312	0.375	4.13
GB05DU06*	**0.312**	0.312	0.375	0.375	4.29
GB05DU08*	**0.312**	0.312	0.375	0.500	4.43
GB06DU03*	**0.375**	0.375	0.468	0.187	3.85
GB06DU04	**0.375**	0.375	0.468	0.250	3.92
GB06DU06*	**0.375**	0.375	0.468	0.375	4.13
GB06DU08*	**0.375**	0.375	0.468	0.500	4.29
GB06DU10*	**0.375**	0.375	0.468	0.625	4.86
GB06DU12*	**0.375**	0.375	0.468	0.750	5.13
GB07DU08*	**0.437**	0.437	0.531	0.500	4.86
GB07DU12*	**0.437**	0.437	0.531	0.750	5.13
GB08DU04*	**0.500**	0.500	0.593	0.250	3.92
GB08DU06*	**0.500**	0.500	0.593	0.375	4.49
GB08DU08*	**0.500**	0.500	0.593	0.500	4.86

Ref.Number	Nominal Rod Dia.	Nominal Seal Dimensions			$
		d	D	H	
GB08DU10*	**0.500**	0.500	0.593	0.625	5.21
GB08DU12*	**0.500**	0.500	0.593	0.750	5.29
GB08DU14*	**0.500**	0.500	0.593	0.875	5.35
GB09DU06*	**0.562**	0.562	0.656	0.375	4.86
GB09DU08*	**0.562**	0.562	0.656	0.500	5.06
GB09DU10*	**0.562**	0.562	0.656	0.625	5.70
GB09DU12*	**0.562**	0.562	0.656	0.750	5.85
GB10DU04*	**0.625**	0.625	0.718	0.250	4.07
GB10DU08*	**0.625**	0.625	0.718	0.500	5.21
GB10DU10*	**0.625**	0.625	0.718	0.625	5.70
GB10DU12*	**0.625**	0.625	0.718	0.750	5.85
GB10DU14*	**0.625**	0.625	0.718	0.875	5.92
GB10DU16*	**0.625**	0.625	0.718	1.000	6.50
GB11DU14*	**0.687**	0.687	0.781	0.875	6.29
GB12DU04*	**0.750**	0.750	0.875	0.250	4.13
GB12DU06*	**0.750**	0.750	0.875	0.375	5.21
GB12DU08	**0.750**	0.750	0.875	0.500	5.35
GB12DU10	**0.750**	0.750	0.875	0.625	5.70
GB12DU12*	**0.750**	0.750	0.875	0.750	5.85
GB12DU16*	**0.750**	0.750	0.875	1.000	7.41
GB13DU12*	**0.812**	0.812	0.937	0.750	6.91
GB13DU18*	**0.812**	0.812	0.937	1.125	8.85

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Rod Dia.	Nominal Seal Dimensions			$
		d	D	H	
GB14DU04*	**0.875**	0.875	1.000	0.250	4.43
GB14DU06*	**0.875**	0.875	1.000	0.375	5.35
GB14DU12*	**0.875**	0.875	1.000	0.750	6.42
GB14DU16	**0.875**	0.875	1.000	1.000	8.85
GB14DU20*	**0.875**	0.875	1.000	1.250	11.06
GB16DU06*	**1.000**	1.000	1.125	0.375	5.42
GB16DU08	**1.000**	1.000	1.125	0.500	5.85
GB16DU12*	**1.000**	1.000	1.125	0.750	7.13
GB16DU16	**1.000**	1.000	1.125	1.000	9.28
GB16DU20	**1.000**	1.000	1.125	1.250	11.78
GB16DU24*	**1.000**	1.000	1.125	1.500	13.76
GB18DU06*	**1.125**	1.125	1.281	0.375	5.85
GB18DU10*	**1.125**	1.125	1.281	0.625	10.02
GB18DU12*	**1.125**	1.125	1.281	0.750	10.15
GB18DU16	**1.125**	1.125	1.281	1.000	10.35
GB20DU06*	**1.250**	1.250	1.406	0.375	6.42
GB20DU12	**1.250**	1.250	1.406	0.750	10.91
GB20DU14*	**1.250**	1.250	1.406	0.875	11.28
GB20DU16	**1.250**	1.250	1.406	1.000	11.63
GB20DU20	**1.250**	1.250	1.406	1.250	11.91
GB20DU28	**1.250**	1.250	1.406	1.750	15.70
GB22DU12	**1.375**	1.375	1.531	0.750	11.28
GB22DU16	**1.375**	1.375	1.531	1.000	12.00
GB22DU24	**1.375**	1.375	1.531	1.500	14.92
GB22DU28	**1.375**	1.375	1.531	1.750	16.42
GB24DU08*	**1.500**	1.500	1.656	0.500	7.41
GB24DU16	**1.500**	1.500	1.656	1.000	12.40
GB24DU20	**1.500**	1.500	1.656	1.250	13.56
GB24DU24	**1.500**	1.500	1.656	1.500	14.48
GB24DU32	**1.500**	1.500	1.656	2.000	16.99
GB26DU16*	**1.625**	1.625	1.781	1.000	13.56
GB26DU24*	**1.625**	1.625	1.781	1.500	14.98
GB28DU16	**1.750**	1.750	1.937	1.000	14.92
GB28DU24	**1.750**	1.750	1.937	1.500	20.76
GB28DU32	**1.750**	1.750	1.937	2.000	22.19
GB30DU12*	**1.875**	1.875	2.062	0.750	12.47
GB30DU16*	**1.875**	1.875	2.062	1.000	16.63
GB30DU36	**1.875**	1.875	2.062	2.250	25.55
GB32DU08*	**2.000**	2.000	2.187	0.500	13.56
GB32DU16	**2.000**	2.000	2.187	1.000	21.83
GB32DU24	**2.000**	2.000	2.187	1.500	23.54
GB32DU28*	**2.000**	2.000	2.187	1.750	24.26
GB32DU32	**2.000**	2.000	2.187	2.000	25.39
GB32DU40*	**2.000**	2.000	2.187	2.500	31.75
GB34DU48*	**2.125**	2.125	2.312	3.000	20.60
GB36DU28	**2.250**	2.250	2.437	1.750	14.50

Ref.Number	Nominal Rod Dia.	Nominal Seal Dimensions			$
		d	D	H	
GB36DU32*	**2.250**	2.250	2.437	2.000	14.96
GB36DU40*	**2.250**	2.250	2.437	2.500	17.31
GB36DU48*	**2.250**	2.250	2.437	3.000	20.88
GB40DU16	**2.500**	2.500	2.687	1.000	10.80
GB40DU32	**2.500**	2.500	2.687	2.000	15.17
GB40DU40	**2.500**	2.500	2.687	2.500	19.01
GB40DU48*	**2.500**	2.500	2.687	3.000	22.71
GB40DU56*	**2.500**	2.500	2.687	3.500	25.61
GB44DU32	**2.750**	2.750	2.937	2.000	16.44
GB44DU40	**2.750**	2.750	2.937	2.500	20.59
GB44DU48*	**2.750**	2.750	2.937	3.000	23.44
GB44DU56*	**2.750**	2.750	2.937	3.500	27.87
GB46DU32*	**2.875**	2.875	3.062	2.000	18.87
GB46DU36*	**2.875**	2.875	3.062	2.250	21.01
GB46DU40*	**2.875**	2.875	3.062	2.500	23.26
GB46DU48*	**2.875**	2.875	3.062	3.000	24.66
GB48DU32	**3.000**	3.000	3.187	2.000	20.49
GB48DU40*	**3.000**	3.000	3.187	2.500	25.76
GB48DU48	**3.000**	3.000	3.187	3.000	25.70
GB48DU56*	**3.000**	3.000	3.187	3.500	18.40
GB48DU60*	**3.000**	3.000	3.187	3.750	33.10
GB52DU32*	**3.250**	3.250	3.437	2.000	22.62
GB52DU38*	**3.250**	3.250	3.437	2.375	28.76
GB52DU40*	**3.250**	3.250	3.437	2.500	29.18
GB52DU48*	**3.250**	3.250	3.437	3.000	30.58
GB56DU24*	**3.500**	3.500	3.687	1.500	10.05
GB56DU32	**3.500**	3.500	3.687	2.000	25.99
GB56DU38*	**3.500**	3.500	3.687	2.375	32.78
GB56DU40*	**3.500**	3.500	3.687	2.500	34.05
GB56DU60*	**3.500**	3.500	3.687	3.750	35.70
GB58DU32*	**3.625**	3.625	3.812	2.000	27.41
GB58DU40*	**3.625**	3.625	3.812	2.500	35.42
GB58DU48*	**3.625**	3.625	3.812	3.000	39.16
GB58DU60*	**3.625**	3.625	3.812	3.750	48.46
GB60DU32*	**3.750**	3.750	3.937	2.000	34.53
GB60DU40*	**3.750**	3.750	3.937	2.500	36.16
GB60DU48*	**3.750**	3.750	3.937	3.000	39.86
GB60DU56*	**3.750**	3.750	3.937	3.500	44.28
GB64DU32*	**4.000**	4.000	4.187	2.000	40.17
GB64DU48*	**4.000**	4.000	4.187	3.000	46.75
GB64DU60*	**4.000**	4.000	4.187	3.750	58.73
GB64DU76*	**4.000**	4.000	4.187	4.750	74.33
GB68DU32*	**4.250**	4.250	4.437	2.000	40.94
GB68DU48*	**4.250**	4.250	4.437	3.000	47.97
GB68DU56*	**4.250**	4.250	4.437	3.500	53.90
GB68DU64*	**4.250**	4.250	4.437	4.000	63.48

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

“DU” BEARING - BR.PTFE/STEEL

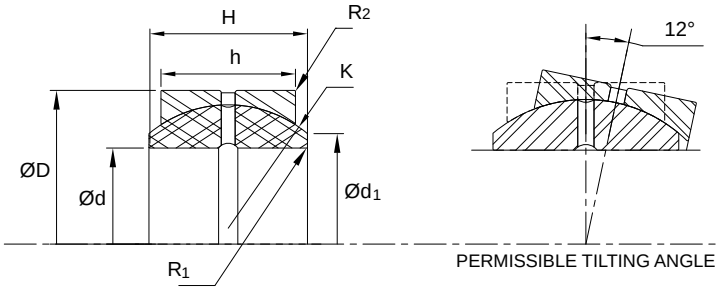
Ref.Number	Nominal Rod Dia.	Nominal Seal Dimensions			$
		d	D	H	
GB70DU32*	**4.375**	4.375	4.562	2.000	42.37
GB70DU36*	**4.375**	4.375	4.562	2.250	44.69
GB70DU48*	**4.375**	4.375	4.562	3.000	49.37
GB70DU64*	**4.375**	4.375	4.562	4.000	64.32
GB72DU32*	**4.500**	4.500	4.687	0.875	46.79
GB72DU56*	**4.500**	4.500	4.687	3.500	57.82
GB72DU64*	**4.500**	4.500	4.687	4.000	68.47
GB72DU72*	**4.500**	4.500	4.687	4.500	85.29
GB76DU32*	**4.750**	4.750	4.937	2.000	48.23
GB76DU56*	**4.750**	4.750	4.937	3.500	62.98
GB76DU64*	**4.750**	4.750	4.937	4.000	77.68
GB76DU76*	**4.750**	4.750	4.937	4.750	94.39
GB80DU32*	**5.000**	5.000	5.187	2.000	51.34
GB80DU40*	**5.000**	5.000	5.187	2.500	61.16
GB80DU48*	**5.000**	5.000	5.187	3.000	71.38
GB80DU56*	**5.000**	5.000	5.187	3.500	64.30
GB80DU60*	**5.000**	5.000	5.187	3.750	54.30

Ref.Number	Nominal Rod Dia.	Nominal Seal Dimensions			$
		d	D	H	
GB84DU32*	**5.250**	5.250	5.437	2.000	53.14
GB84DU48*	**5.250**	5.250	5.437	3.000	74.77
GB84DU60*	**5.250**	5.250	5.437	3.750	87.31
GB84DU72*	**5.250**	5.250	5.437	4.500	98.87
GB88DU32	**5.500**	5.500	5.687	2.000	63.06
GB88DU48*	**5.500**	5.500	5.687	3.000	77.24
GB88DU60*	**5.500**	5.500	5.687	3.750	92.64
GB88DU72*	**5.500**	5.500	5.687	4.500	106.25
GB92DU32*	**5.750**	5.750	5.937	2.000	67.13
GB92DU48*	**5.750**	5.750	5.937	3.000	85.26
GB92DU64*	**5.750**	5.750	5.937	4.000	104.88
GB92DU80*	**5.750**	5.750	5.937	5.000	123.04
GB96DU32*	**6.000**	6.000	6.187	2.000	74.51
GB96DU48*	**6.000**	6.000	6.187	3.000	92.18
GB96DU60*	**6.000**	6.000	6.187	3.750	104.57
GB96DU64*	**6.000**	6.000	6.187	4.000	112.03

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**







Standard Material	Temperature Range
Carbon Chromium Steel	-58°F to +302°F (-50°C to +150°C)

without seals

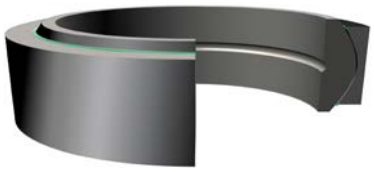
SBB-style Radial spherical plain bearings have an inner ring with a sphered convex outside surface and an outer ring with a correspondly sphered but concave inside surface. Their design makes them particulary suitable for bearing arrangements where alignment movements between shaft and housing have to be accomodated, or where oscillating or reccurent tilting or slewing movements must be permitted at relatively slow sliding speeds.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref. Number	Rod diameter	Nominal Bearing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
SBB8/Z*	**0.500**	0.500	0.551	0.875	0.375	0.437	0.709	0.008	0.024	32.29
SBB10/Z*	**0.625**	0.625	0.705	1.062	0.469	0.547	0.906	0.008	0.031	35.52
SBB12/Z	**0.750**	0.750	0.843	1.250	0.562	0.656	1.083	0.024	0.031	33.37
SBB14/Z*	**0.875**	0.875	0.984	1.437	0.656	0.765	1.260	0.024	0.031	30.12
SBB16/Z	**1.000**	1.000	1.102	1.625	0.750	0.875	1.417	0.024	0.031	29.06
SBB20/Z	**1.250**	1.250	1.382	2.000	0.937	1.093	1.772	0.024	0.031	41.95
SBB22/Z	**1.375**	1.375	1.516	2.187	1.031	1.187	1.929	0.024	0.031	63.49
SBB24/Z	**1.500**	1.500	1.705	2.437	1.125	1.312	2.165	0.024	0.031	54.89
SBB28/Z	**1.750**	1.750	1.984	2.812	1.312	1.531	2.520	0.024	0.031	75.34
SBB32/Z	**2.000**	2.000	2.268	3.187	1.500	1.750	2.874	0.024	0.031	102.24
SBB36/Z	**2.250**	2.250	2.555	3.562	1.687	1.969	3.228	0.024	0.031	139.90
SBB40/Z	**2.500**	2.500	2.835	3.937	1.875	2.187	3.583	0.024	0.031	189.42
SBB44/Z	**2.750**	2.750	3.110	4.375	2.062	2.406	3.937	0.024	0.031	222.40
SBB48/Z	**3.000**	3.000	3.406	4.750	2.250	2.625	4.331	0.024	0.031	333.61
SBB52/Z*	**3.250**	3.250	3.705	5.125	2.437	2.844	4.685	0.024	0.031	424.02
SBB56/Z	**3.500**	3.500	4.000	5.500	2.625	3.062	5.039	0.024	0.031	591.89
SBB60/Z	**3.750**	3.750	4.268	5.875	2.812	3.281	5.394	0.024	0.031	639.25
SBB64/Z	**4.000**	4.000	4.559	6.250	3.000	3.500	5.748	0.024	0.031	719.25
SBB68/Z*	**4.250**	4.250	4.827	6.625	3.187	3.719	6.102	0.031	0.043	1037.92
SBB72/Z*	**4.500**	4.500	5.110	7.000	3.375	3.937	6.457	0.031	0.043	1129.99
SBB76/Z*	**4.750**	4.750	5.386	7.375	3.562	4.156	6.811	0.031	0.043	963.17
SBB80/Z	**5.000**	5.000	5.705	7.750	3.750	4.375	7.205	0.031	0.043	1442.08
SBB96/Z*	**6.000**	6.000	6.594	8.750	4.125	4.750	8.150	0.031	0.043	1613.27

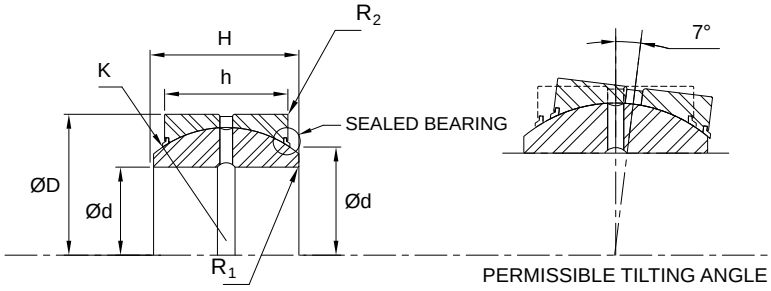
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SBB-2RS/Z - Spherical plain bearings - Inch



Standard Material	Temperature Range
Carbon Chromium Steel	-22°F to +266°F (-30°C to +130°C)

with seals



Similar to the **SSB-style**, the **2RS-style** incorporates seals on the outer race to prevent the ingression of harmful contaminants.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref. Number	Rod diameter	Nominal Bearing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
SBB12-2RS/Z*	**0.750**	0.750	0.843	1.250	0.562	0.656	1.083	0.024	0.031	62.57
SBB14-2RS/Z*	**0.875**	0.875	0.984	1.437	0.656	0.765	1.260	0.024	0.031	66.25
SBB16-2RS/Z	**1.000**	1.000	1.102	1.625	0.750	0.875	1.417	0.024	0.031	67.56
SBB20-2RS/Z	**1.250**	1.250	1.382	2.000	0.937	1.093	1.772	0.024	0.031	68.84
SBB22-2RS/Z	**1.375**	1.375	1.516	2.187	1.031	1.187	1.929	0.024	0.031	69.80
SBB24-2RS/Z	**1.500**	1.500	1.705	2.437	1.125	1.312	2.165	0.024	0.031	73.16
SBB28-2RS/Z	**1.750**	1.750	1.984	2.812	1.312	1.531	2.520	0.024	0.031	94.68
SBB32-2RS/Z	**2.000**	2.000	2.268	3.187	1.500	1.750	2.874	0.024	0.031	122.68
SBB36-2RS/Z	**2.250**	2.250	2.555	3.562	1.687	1.969	3.228	0.024	0.031	182.96
SBB40-2RS/Z	**2.500**	2.500	2.835	3.937	1.875	2.187	3.583	0.024	0.031	236.76
SBB44-2RS/Z*	**2.750**	2.750	3.110	4.375	2.062	2.406	3.937	0.024	0.031	275.50
SBB48-2RS/Z	**3.000**	3.000	3.406	4.750	2.250	2.625	4.331	0.024	0.031	380.98
SBB52-2RS/Z	**3.250**	3.250	3.705	5.125	2.437	2.844	4.685	0.024	0.031	613.30
SBB56-2RS/Z	**3.500**	3.500	4.000	5.500	2.625	3.062	5.039	0.024	0.031	656.47
SBB60-2RS/Z*	**3.750**	3.750	4.268	5.875	2.812	3.281	5.394	0.024	0.031	821.99
SBB64-2RS/Z	**4.000**	4.000	4.559	6.250	3.000	3.500	5.748	0.024	0.031	957.79
SBB68-2RS/Z*	**4.250**	4.250	4.827	6.625	3.187	3.719	6.102	0.031	0.043	1496.88
SBB72-2RS/Z*	**4.500**	4.500	5.110	7.000	3.375	3.937	6.457	0.031	0.043	1810.88
SBB76-2RS/Z*	**4.750**	4.750	5.386	7.375	3.562	4.156	6.811	0.031	0.043	2545.63
SBB80-2RS/Z*	**5.000**	5.000	5.705	7.750	3.750	4.375	7.205	0.031	0.043	2959.46
SBB96-2RS/Z*	**6.000**	6.000	6.594	8.750	4.125	4.750	8.150	0.031	0.043	3693.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref. Number	Pin diameter	SKF	Torrington	RBC	INA-Elges	Int. Ret. Ring Housing House
SBB8	0.500	GEZ 008 ES	5SF8	B8-L	GE 12 ZO	N1300-0087
SBB10	0.625	GEZ 010 ES	6SF10	B10-L	GE 15 ZO	N1300-0162
SBB12	0.750	GEZ 012 ES	7SF12	B12-L	GE 19 ZO	N1300-0125
SBB14	0.875	GEZ 014 ES	8SF14	B14-L	GE 22 ZO	N1300-0143
SBB16	1.000	GEZ 100 ES	10SF16	B16-L	GE 25 ZO	N1300-0162
SBB20	1.250	GEZ 104 ES	12SF20	B20-L	GE 31 ZO	N1300-0200
SBB22	1.375	GEZ 106 ES	13SF22	B22-L	GE 34 ZO	N1300-0218
SBB24	1.500	GEZ 108 ES	15SF24	B24-L	GE 38 ZO	N1300-0244
SBB28	1.750	GEZ 112 ES	17SF24	B28-L	GE 28 ZO	N1300-0281
SBB32	2.000	GEZ 200 ES	20SF24	B32-L	GE 32 ZO	N1300-0315
SBB36	2.250	GEZ 204 ES	22SF24	B36-L	GE 36 ZO	N1300-0356
SBB40	2.500	GEZ 208 ES	25SF40	B40-L	GE 63 ZO	N1300-0393
SBB44	2.750	GEZ 212 ES	27SF44	B44-L	GE 69 ZO	N1300-0433
SBB48	3.000	GEZ 300 ES	30SF48	B48-L	GE 76 ZO	N1300-0475
SBB52	3.250	GEZ 304 ES	32SF52	B52-L	GE 82 ZO	N1300-0512
SBB56	3.500	GEZ 308 ES	35SF56	B56-L	GE 88 ZO	N1300-0550
SBB60	3.750	GEZ 312 ES	37SBB60	B60-L	GE 95 ZO	N1300-0587
SBB64	4.000	GEZ 400 ES	40SBB64	B64-L	GE 101 ZO	N1300-0625
SBB72	4.500	GEZ 408 ES	45SFBB72	B72-L	GE 114 ZO	N1300-0700
SBB80	5.000	GEZ 500 ES	50SBB80	B80-L	GE 127 ZO	N1300-0775
SBB96	6.000	GEZ 600 ES	60SBB96	B96-L	GE 152 ZO	N1300-0875

For sealed bearings, add suffix as : -2RS

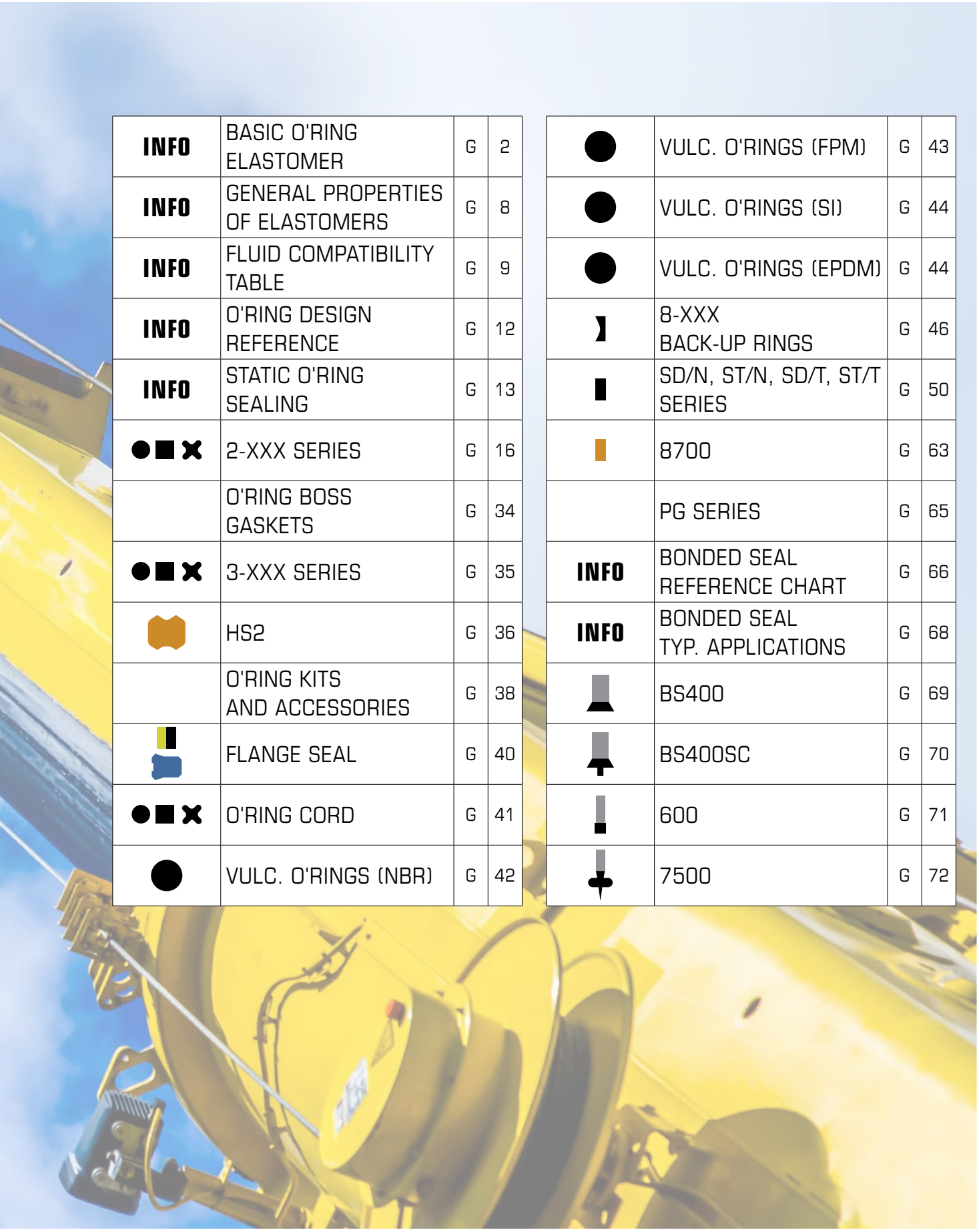
OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.







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ACM

Polyacrylate (ACM, PA)

Polyacrylates or simply acrylate rubbers are copolymers having two major components : the backbone (monomeric acid ester of alkyl or alkoxy) and the reactive curesite. ACMs have good resistance to high heat and oil which is better than NBRs. It also well resists oxygen and ozone even at high temperature, but is with poorer water and low temperature flexibility compared to NBRs. Special ACM can improve low temperature flexibility to -40 °C (TR10 value) without reducing oil and heat resistance.

Services Temperatures	
Standard Low Temperature	-15 °C -5 °F
Standard High Temperature	150 °C 302 °F
Special Compound Low temperature	-40 °C -40 °F
Special Compound High temperature	135 °C 275 °F

Peforms Well In...	Doesn't Perform Well In...
• Mineral Oils (transmission and steering fluids) • Ozone, weather and hot air	• Alcohol • Aromatics and chlorinated hydrocarbons • Hot water and steam • Acids, alkalis and amines • Brake fluids

AEM

Ethylene/Acrylic elastomer (AEM, VAMAC®)

Ethylene/acrylic elastomer is a copolymer of ethylene and methyl acrylate plus a small amount of a curesite monomer containing carboxylic acid groups. AEM is a tough, low-compression-set rubber with excellent resistance to high temperatures, hot mineral oil, fluids and weathering. The low temperature flexibility and mechanic properties are better than ACM, but it is not well resistant to low aniline oil (like ASTM No. 3 oil) and polar solvents. AEM is typically chosen for applications requiring improved performance versus Nitrile rubber, Neoprene or reduced cost versus higherend elastomers such as HNBR, FKM. It also usually is applied in automatic industry.

Services Temperatures	
Standard Low Temperature	-30 °C -22 °F
Standard High Temperature	150 °C 302 °F
Special Compound Low temperature	-40 °C -40 °F
Special Compound High temperature	175 °C 347 °F

Peforms Well In...	Doesn't Perform Well In...
• Ozone, weather and hot air • Automatic transmission fluids (ATF) and Power steering fluids • Water	• Ketones • Fuels • Brake fluids

Vamac® is a registered trademark of Celanese.

CR

Chloroprene Rubber(CR)

Chloroprene was one of the first successful synthetic elastomers in 1931 made by Dupont, and the trade name is Neoprene. It is prepared by emulsion polymerization of chloroprene, or 2-chlorobutadiene. CR is a multi-purposed elastomer which yields a balanced combination of properties. It has good resistance to sun, ozone, weather and performs well in contact with oils and many chemicals. It also displays outstanding physical toughness and good resistance to fire.

Services Temperatures	
Standard Low Temperature	-40 °C -40 °F
Standard High Temperature	125 °C 257 °F
Special Compound Low temperature	-55 °C -67 °F
Special Compound High temperature	135 °C 275 °F

Peforms Well In...	Doesn't Perform Well In...
• Refrigerants • Ammonia • Water • Silicone grease and oils • High aniline point mineral oil	• Aromatic hydrocarbons • Ketones • Esters • Ethers • Chlorinated hydrocarbons

ECO

Epichlorohydrin(CO, ECO, GECO)

Hydrin® is the trade name of epichlorohydrin elastomers made by Zeon Chemicals. epichlorohydrin elastomers are available as a homopolymer(CO), copolymer(ECO, GCO),and terpolmer(GECO). All epichlorohydrin rubbers offer low temperature flexibilities; resistance to oils, fuel and common solvents; higher temperature resistance than NBR; good weather ability and good dynamic properties.

Services Temperatures	
Standard Low Temperature	-40°C -40°F
Standard High Temperature	100°C 212°F
Special Compound High temperature	135°C 275°F

Peforms Well In...	Doesn't Perform Well In...
• Mineral oil and grease • LPG, fuels • Silicone oil and grease • Ozone, weather	• Ketones and esters • Aromatic and chlorinated hydrocarbon • Brake fluids • Aldehydes

Hydrin® is a registered trademark of Zeon Chemicals L.P.

EPDM

Ethylene Propylene Rubber (EPR, EPDM)

EPDM is a copolymer of ethylene and propylene, and further a terpolymer of ethylene and propylene with a small amount of a third monomer (usually a diolefin) to permit vulcanization with sulfur. Generally Ethylene Propylene Rubber possesses excellent resistance to ozone, sunlight and weathering, and has very good flexibility at low temperature, good chemical resistance (many dilute acids and alkalis, polar solvents), and good electrical insulation property.

Services Temperatures	
Standard Low Temperature	-55°C -67°F
Standard High Temperature	125°C 257°F
Special Compound Low temperature	-60°C -76°F
Special Compound High temperature	150°C 302°F

Peforms Well In...		Doesn't Perform Well In...
• Alcohols • Automotive brake fluid • Ketones • Dilute acids and alkalis • Silicone oils & greases	• Steam to 400° F • Water • Phosphate ester based hydraulic fluids - Skydrol® • Ozone, aging & weathering	• Aliphatic & aromatic hydrocarbons • Di-ester based lubricants • Halogenated solvents • Petroleum based oils & greases

FFKM

Perfluoroelastomers (FFKM)

Perfluoroelastomers(FFKM) contain fully fluorinated polymer chains and hence offer the ultimate performance of elastomers when considering heat and chemical resistance. Excellent resistance to fuels, all types of lubricating oils and greases, mineral-based and hydraulic fluids,solvents, alcohols, most acids and alkalis.

Services Temperatures	
Standard Low Temperature	0°C 32°F
Standard High Temperature	250°C 482°F
Special Compound Low temperature	-30°C -22°F
Special Compound High temperature	315°C 599°F

Peforms Well In...		Doesn't Perform Well In...
• Hydrocarbons • Alkalis • Amines • Lubricants • Ketones/Esters/Ethers • Ozone, weather and very high temperature air	• Acid (Organic and inorganic acids) • Water/Steam • Sour gas • Aldehydes • High vacuum	• Fluorinated fluid

Basic O'Ring Elastomer

FKM

Fluorocarbon (FPM, FKM, Viton™)

Fluorocarbon is a well- known high performance rubber, and especially it has excellent resistance to high temperature, ozone, weather, oxygen, mineral oil, fuels, hydraulic fluids, aromatics and many organic solvents and chemicals.

Peforms Well In...	Doesn't Perform Well In...
• Petroleum products • Fuel or blend with methanol or ethanol • Diesel or blend with biodiesel • Mineral oil and grease • Silicone oil and grease • High vacuum • Water • Ozone, weather and very high temperature air • Strong acid	• Ketones • Low molecular weight organic acids (formic and acetic acids) • Superheat steam • Low molecular weight esters and ethers. • Phosphate ester based hydraulic fluids - Skydrol®

Services Temperatures	
Standard Low Temperature	-26°C -14.8°F
Standard High Temperature	250°C 482°F
Special Compound Low temperature	-40°C -40°F
Special Compound High temperature	275°C 527°F

Viton™ Is a registered trademark of Chemours Fluoroelastomer.

FVMQ

Fluorosilicone Rubber (FVMQ)

Fluorosilicone is like silicone rubber, bonding trifluoropropyl, methyl, and vinyl as side chains. The mechanical and physical properties are similar to VMQ. However, FVMQ offers improved fuel and mineral oil resistance, but poorer hot air resistance than standard VMQ.

Peforms Well In...	Doesn't Perform Well In...
• Fuels • Aromatic mineral oils • Benzene, Toluene • Silicone grease and oils • Ozone and weather	• Brake Fluids • Ketones • Hydrazine

Services Temperatures	
Standard Low Temperature	-60°C -76°F
Standard High Temperature	177°C 350.6°F
Special Compound Low temperature	-65°C -85°F
Special Compound High temperature	232°C 499.6°F

HNBR

Hydrogenated Nitrile Rubber (HNBR)

Hydrogenated Nitrile (HNBR) is a synthetic polymer that is obtained by saturating the double bonds in butadiene segments with hydrogen, and it is also called HSN(Highly Saturated Nitrile). This special hydrogenation process reduces lots of double bonds in main chains of NBR polymer, thus HNBR possesses superior heat, ozone, chemical resistance and mechanical characteristics over standard Nitrile.

Services Temperatures	
Standard Low Temperature	-40°C -40°F
Standard High Temperature	150°C 302°F
Special Compound Low temperature	-55°C -67°F
Special Compound High temperature	165°C 329°F

Peforms Well In...	Doesn't Perform Well In...
• Petroleum based oils & fuels • Aliphatic hydrocarbons • Vegetable oils • Silicone oils & greases • Ethylene glycol • Dilute acids, bases & salt solutions to moderate temperatures • Water & steam to 150°C (302°F)	• Chlorinated hydrocarbons • Ketones • Ethers • Esters • Strong acids

IIR

Butyl Rubber (IIR)

Butyl rubber is composed by copolymerizing isobutylene which is with small amount of isoprene. It is like EPDM possessing excellent resistance to chemical and polar fluid, outstanding electrical insulation and good ozone resistance. The special properties of butyl rubber are low gas and moisture permeability and high shock absorption. These properties have made butyl rubber the polymer choice in a variety of applications.

Services Temperatures	
Standard Low Temperature	-55°C -67°F
Standard High Temperature	100°C 212°F

Peforms Well In...	
• Alcohols • Ketones • Dilute acids and alkalis • Silicone oils & greases	• Water and Steam • Phosphate ester based hydraulicfluids - Skydrol® • Ozone, aging & weathering

Doesn't Perform Well In...
• Aliphatic & aromatic hydrocarbons • Halogenated solvents • Petroleum based oils & greases

LSR

Liquid Silicone Rubber (LSR)

Liquid Silicone Rubber (LSRs) are low viscosity and high purity elastomers with two-part catalyzed silicone specifically designed for liquid injection molding. Each elastomer is supplied in a two-part kit (Part A and Part B), equal portions (by weight) of which must be thoroughly blended together prior to use. When blended and cured as indicated, the resulting elastomer consists of cross-linked dimethyl and methyl-vinyl siloxane copolymers and reinforcing silica.

Services Temperatures	
Standard Low Temperature	-55°C -67°F
Standard High Temperature	230°C 446°F

Peforms Well In...
• Engine and transmission oil (mineral oils) • Diluted salt solution • Moderate water • Dry heat • Water and Steam • Ozone, weather resistance

Doesn't Perform Well In...
• Concentrated acids and alkalis • Steam over 120° C • Petroleum oils and fuel • Ketones

NBR

Nitrile Rubber (NBR)

Nitrile rubber, also known as NBR or Buna® N, is one of the most commonly used sealing elastomers due to its resistance to petroleum based fuels and lubricants and its relatively low price. Nitrile elastomers are copolymers of acrylonitrile and butadiene. There are a number of common variations of nitrile compounds.

Services Temperatures	
Standard Low Temperature	-40°C -40°F
Standard High Temperature	100°C 212°F
Special Compound Low temperature	-55°C -67°F
Special Compound High temperature	135°C 275°F

Peforms Well In...
• Petroleum based oils & fuels • Aliphatic hydrocarbons • Vegetable oils • Silicone oils & greases • Ethylene glycol • Dilute acids • Water to below 100° C (212° F)

Doesn't Perform Well In...
• Aromatic hydrocarbons • Automotive brake fluid • Chlorinated hydrocarbons • Ketones • Ethers • Esters • Phosphate ester hydraulic fluids • Strong acids • Ozone/weathering/sunlight

NR

Natural Rubber(NR)

Natural rubber is produced from the latex of the Hevea brasiliensis,and the chemical name of this polymer is polyisoprene. Polyisoprene also can be synthesized by polymerization from its monomer isoprene. Natural rubber possesses many excellent physical properties including high resilience and strength and good abrasion resistance. The defects are like SBR, having poor resistance to hydrocarbon oil and not suitable in UV, oxygen, ozone because of the double bond in the polymer backbone. But its poor weathering resistance can be modified by special additive.

Services Temperatures	
Standard Low Temperature	-50°C -58°F
Standard High Temperature	70°C 158°F

Peforms Well In...	Doesn't Perform Well In...
• Alcohols • Organic acids	• Ozone • Petroleum oils • Aromatic, aliphatic, or halogenated hydrocarbons

PU, AU, EU

Polyurethane(PU, AU, EU)

he millable Polyurethane rubbers are distinguished into two types; one is polyester urethane (AU), the other is polyether urethane (EU). AU type urethanes have outstanding oil, fuel and solvent resistance but can be attacked by hydrolysis, EU type urethanes are not attacked by hydrolysis and still offer a fuel and oil resistance comparable to low ACN (18~22% ACN) Nitriles or HNBRs. Any type polyurethane has excellent wear resistance, high tensile strength and high elasticity in comparison with any other elastomers. We also can offer any type thermoplastic urethane (TPU).

Services Temperatures	
Standard Low Temperature	-40°C -40°F
Standard High Temperature	80°C 176°F
Special Compound Low temperature	-55°C -67°F
Special Compound High temperature	100°C 212°F

Peforms Well In...	Doesn't Perform Well In...
• Aliphatic hydrocarbon • Mineral oil and grease • Silicone oil and grease • Ozone • Water up to 50° C (EU type)	• Ketones • Alcohols • Esters • Ethers • Hot water and steam • Alkalis, amines • Acids • Glycols

SBR

Styrene-Butadiene Rubber(SBR)

The most widely used synthetic rubber in the world is SBR, a copolymer of styrene and butadiene. SBR was also was called Buna® S (from the first trade name of Bayer). Where SBR rubber is used the most is in tire by blending it with natural rubber and butadiene rubber. SBR is weak and unusable without reinforcement by carbon black, but with carbon black it is strong and abrasion resistant. The defects of SBR are poor resistant to oil and not suitable in weathering, UV, oxygen, ozone because of the double bond in the polymer backbone.

Services Temperatures	
Standard Low Temperature	-55°C -67°F
Standard High Temperature	100°C 212°F

Peforms Well In...	Doesn't Perform Well In...
• Water • Alcohol • Silicone oil and grease • Non-mineral oil base brake fluid • Weak acids	• Petroleum oils and fuels • Aromatic, aliphatic, or halogenated • hydrocarbons • Strong acids • Mineral oils

TPU

Thermoplastic Polyurethane (TPU)

Thermoplastic polyurethane (TPU) is an elastomer that is fully thermoplastic. Like all thermoplastic elastomers, TPU is elastic and melt-processable. Further, it can be processed on extrusion as well as injection, blow and compression molding equipment. Thermopalstic polyurethane(TPU) is a unique category of plastic created when a polyaddition reaction occurs between a diisocyanate and one or more diols that results in high resilience, good compression set, plus resistance to impacts, abrasions, tears, weather, and even hydrocarbons. TPU offers flexibility without the use of plasticizers as well as a broad range of hardness and high elasticity. In fact, TPU bridges the material gap between rubbers and plastics.

Services Temperatures	
Standard Low Temperature	-35°C -31°F
Standard High Temperature	100°C 212°F

Peforms Well In...
• Diluted acids and alkaline solutions • Mineral oil • Ozone • Aliphatic hydrocarbon • Water up to 50° C • lubricants

Doesn't Perform Well In...
• Ketones • Esters • Hot water and steam • polar organic solvents • Aromatic hydrocarbons • Alkalis, amines • Acids

VMQ

Silicone Rubber (MQ, VMQ, PVMQ)

Physically, silicones are based on silicon, an element derived from quartz. To create this class of synthetic elastomers, pendant organic groups such as methyl, phenyl and vinyl are attached to silicon atoms. The different addition of side chains can achieve significant variations in properties. Silicones have excellent heat, ozone and corona resistance, very well dielectric stability, and resistance to many oils, chemicals, and solvents. And for all elastomers, silicones possess the best flexible property at low temperature. But it also has some weakness like low tensile strength, poor tear and wear resistance.

Services Temperatures	
Standard Low Temperature	-60°C -76°F
Standard High Temperature	225°C 437°F
Special Compound Low temperature	-100°C -148°F
Special Compound High temperature	300°C 572°F

Peforms Well In...
• Engine and transmission oil (mineral oils) • Diluted salt solution • Moderate water • Dry heat • Ozone, weather resistance

Doesn't Perform Well In...
• Concentrated acids and alkalis • Steam over 120° C • Petroleum oils and fuel • Ketones

XNBR

Carboxylated Nitrile (XNBR)

Cabboxylated Nitrile is similar to Nitrile rubber, but the polymer backbone has been chemically modified with Carboxylic Acid containing group. This result is XNBR with more excellent abrasion and tear resistance than traditional NBR. For this reason, XNBR based parts are usually applied in dynamic assembly such as seals and rod wipers.

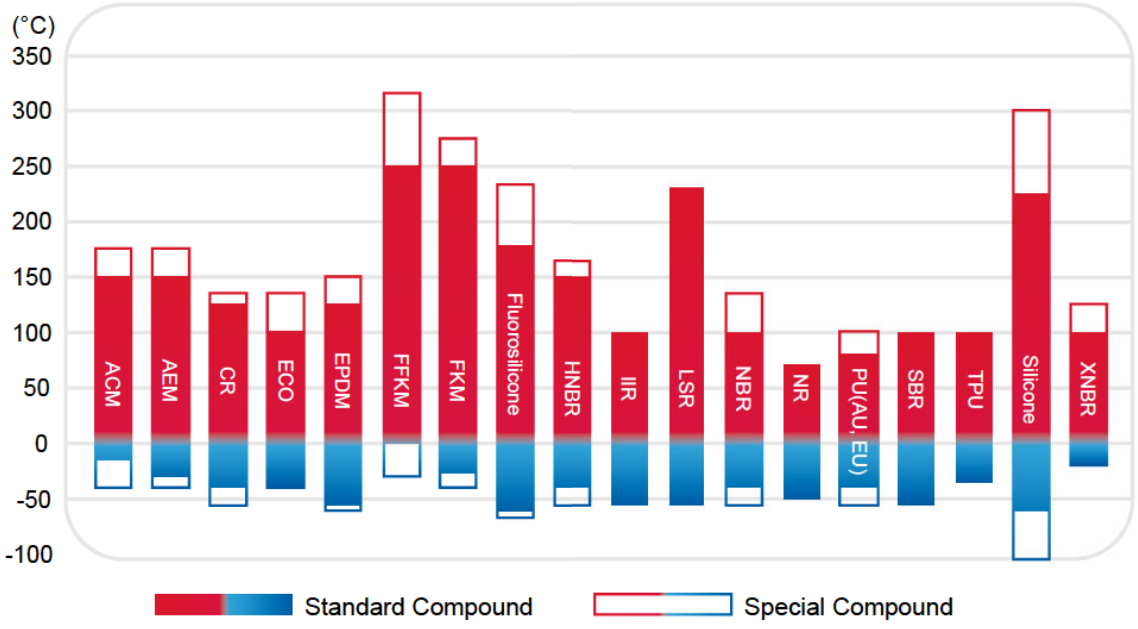
Services Temperatures	
Standard Low Temperature	-20°C -4°F
Standard High Temperature	100°C 212°F
Special Compound High temperature	125°C 257°F

Peforms Well In...
• Aliphatic hydrocarbon • Vegetable and mineral oils and greases • Diesel • Water • Dilute acids, alkali and salt solutions

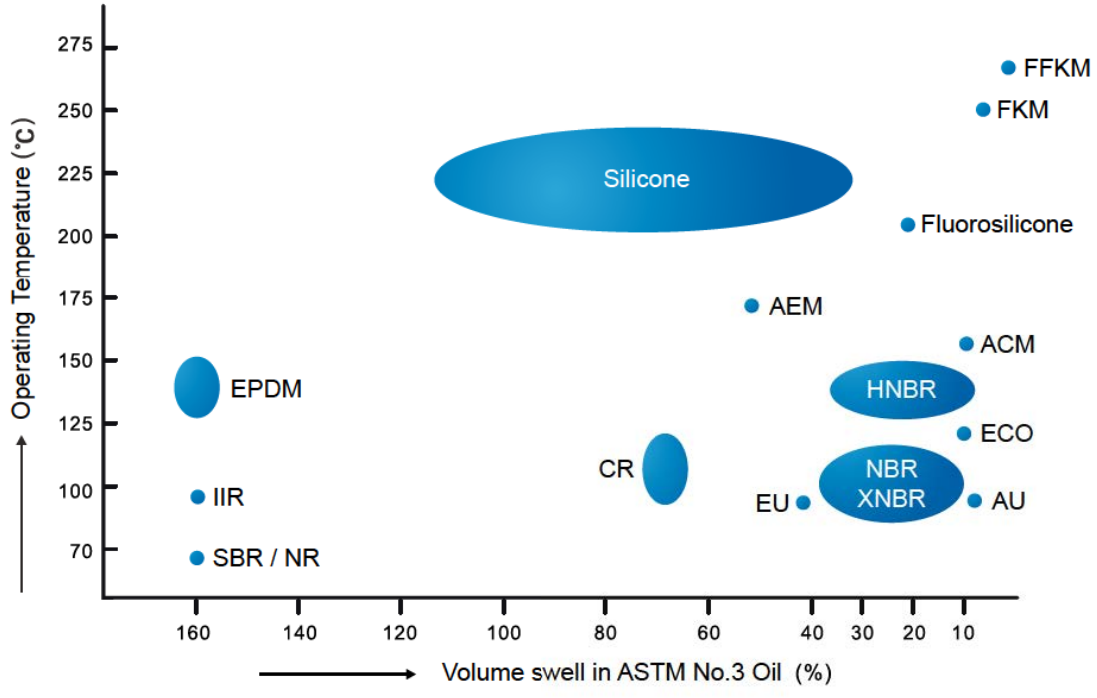
Doesn't Perform Well In...
• Aromatic hydrocarbon • Chlorinated hydrocarbon • Ketons • Acetic acid • Ethylene ester • Strong acids • Brake fluid with glycol base

Service Temperature Range Chart

This service température range is for reference only. In actual service environment, some specific compounds may not reach the maximum temperature as indicated in this chart. However, higher temperature may be attained if exposure is short period or intermittent.



Oil And Heat Resistance Comparison Chart



General Properties of Elastomers

COMPATIBILITY RATING
■ SATISFACTORY
● FAIR
(USUALLY OK FOR STATIC SEAL)
▲ DOUBTFUL
(SOMETIMES OK FOR STATIC SEAL)
✕ UNSATISFACTORY
– INSUFFICIENT DATA

	NITRILE(NBR)	EPDM	FLUOROCARBON(FKM)	NEOPRENE(CR)	POLYACRYLATE(ACM)	FLUOROSILICONE(FVMQ)	SILICONE
ACETALDEHYDE	▲	●	✕	▲	✕	✕	●
ACETAMIDE	■	■	▲	■	✕	■	●
ACETIC ACID,GLACIAL	●	●	✕	✕	✕	✕	●
HOT,HIGH PRESS	✕	▲	✕	✕	✕	✕	▲
5%	●	■	■	■	✕	●	■
ACETONE	✕	■	✕	✕	✕	✕	✕
ACETOPHENONE	✕	■	✕	✕	✕	✕	✕
ACETYLENE	■	■	■	●	–	–	●
AMMONIA,GAS,COLD	■	■	✕	■	✕	✕	■
GAS,HOT	✕	●	✕	●	✕	✕	■
LIQUID(ANHYDROUS)	●	■	✕	■	✕	✕	●
AMMONIUM HYDROXIDE,							
3 MOLAR	■	■	●	■	✕	■	■
CONCENTRATED	✕	■	▲	■	✕	■	■
AMYL ACETATE	✕	■	✕	✕	✕	✕	✕
ANDEROL,L-774(DI-ESTER)	●	✕	■	✕	●	●	✕
ANTIFREEZE	■	■	■	■	✕	–	■
ANILINE	✕	●	▲	✕	✕	▲	✕
ANSUL ETHER 161 OR 181	▲	▲	✕	✕	✕	▲	✕
AROCLOR,1248	▲	●	■	✕	✕	●	●
1254	✕	●	■	✕	✕	●	▲
1260	■	–	■	■	✕	■	■
ASKAREL	●	✕	■	✕	✕	●	✕
ASTM OIL NO.1	■	✕	■	■	■	■	■
NO.3	■	✕	■	✕	■	■	▲
ASTM REDERENCE FUEL A	■	✕	■	●	●	■	✕
B	■	✕	■	✕	✕	■	✕
C	●	✕	■	✕	✕	●	✕
D	●	✕	■	✕	✕	–	✕
AUTO. TRANSMISSION FLUID	■	✕	■	●	■	–	✕
BEER	■	■	■	■	✕	■	■
BENZALDEHYDE	✕	■	✕	✕	✕	✕	✕
BENZENE	✕	✕	■	✕	✕	■	✕
BENZINE	■	✕	■	●	■	■	✕
BENZOIC ACID	✕	✕	■	✕	✕	●	✕
BENZOPHENONE	–	●	■	–	✕	■	–
BENZYL ALCOHOL	✕	●	■	●	✕	●	–
BLEACH LIQUOR	✕	■	■	✕	✕	●	●
BORAX	●	■	■	✕	●	●	●
BORIC ACID	■	■	■	■	✕	■	■
BRAKE FLUID(NON-PETROLEUM)	▲	■	✕	●	–	✕	▲
BROMINE	✕	✕	■	✕	✕	●	✕
BROMOBENZENE	✕	✕	■	✕	✕	■	✕
BUNKER OIL	■	✕	■	✕	■	■	●
BUTANE	■	✕	■	■	■	■	✕
BUTTER-ANIMAL FAT	■	■	■	●	■	■	●
N-BUTYL ACETATE	✕	●	✕	✕	✕	✕	✕

	NITRILE(NBR)	EPDM	FLUOROCARBON(FKM)	NEOPRENE(CR)	POLYACRYLATE(ACM)	FLUOROSILICONE(FVMQ)	SILICONE
BUTYL ALCOHOL	■	●	■	■	✕	■	●
BUTYL AMINE OF N-BUT AMINE	▲	✕	✕	✕	✕	✕	●
BUTYL CARBITOL	✕	■	▲	▲	✕	✕	✕
BUTYL CELLOSOLVE	▲	●	✕	▲	✕	✕	–
BUTYRALDEHYD	✕	●	✕	✕	✕	✕	✕
CARBITOL	●	●	●	●	✕	●	●
CARBITOL ACETATE	✕	✕	■	✕	✕	–	✕
CARBON DISULFIDE	✕	✕	■	✕	▲	■	–
CARBON TETRACHLORIDE	●	✕	■	✕	✕	●	✕
CARBONIC ACID	●	■	■	■	■	■	■
CASTOR OIL	■	●	■	■	■	■	■
CELLOSOLVE	✕	●	✕	✕	✕	✕	✕
CHASSIS GREASE	■	✕	●	●	■	–	✕
CHLORACETIC ACID	✕	●	✕	✕	✕	✕	–
CHLORACETONE	✕	■	■	●	–	–	✕
CHLORODANE	●	✕	■	▲	–	●	✕
CHLORINE,DRY	✕	✕	■	✕	✕	■	✕
CHLORINE DIOXIDE	✕	▲	■	✕	✕	●	–
CHLORINE DIOXIDE,8% CL	✕	✕	■	✕	✕	●	–
AS NAC10 IN SOLUTION							
CHLORINE TRIFLUORIDE	✕	✕	✕	✕	✕	✕	✕
CHLORINE,WET	▲	●	■	✕	✕	●	–
CHLOROBENZOL	✕	✕	■	✕	✕	–	✕
CHLOROFORM	✕	✕	■	✕	✕	●	✕
CHLOROSULPHONIC ACID	✕	✕	✕	✕	✕	✕	✕
CHROME PLATING SOLUTIONS	✕	●	■	✕	✕	●	●
CHROMIC ACID,50%	✕	●	■	✕	✕	▲	▲
CITRIC ACID	■	■	■	■	–	■	■
COD LIVER OIL	■	■	■	●	■	■	●
COFFEE	■	■	■	■	✕	■	■
CORN OIL	■	▲	■	▲	■	■	■
CREOSOTE,COAL TAR	■	✕	■	●	■	■	✕
CREOSOTE OIL	■	✕	■	●	–	–	●
CREOSYLIC ACID	✕	✕	■	✕	✕	●	✕
CRUDE OIL	●	✕	■	✕	■	●	✕
CYCLOHEXANE	■	✕	■	▲	●	■	✕
CYCLOHEXNOL	■	✕	■	●	–	■	✕
DECALIN	✕	✕	■	✕	–	■	✕
DENATURED ALCOHOL	■	■	■	■	✕	■	■
DIACETONE	✕	■	✕	✕	✕	✕	✕
DIBUTYLAMINE	✕	✕	✕	▲	✕	✕	▲
DIBUTYL PHTHALATE	✕	●	▲	✕	✕	▲	–
DICHLORO ANILINE	✕	✕	●	✕	✕	–	✕
DICHLORO BUTANE	●	✕	■	✕	✕	●	✕
DIESEL OIL	■	✕	■	▲	■	■	✕
DIETHYLAMINE	●	●	✕	●	✕	✕	●
DIETHYL BENZENE	●	✕	■	✕	–	–	–

Fluid Compatibility table

General Properties of Elastomers

COMPATIBILITY RATING ■ SATISFACTORY ● FAIR (USUALLY OK FOR STATIC SEAL) ▲ DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) ✕ UNSATISFACTORY – INSUFFICIENT DATA	NITRILE(NBR)	EPDM	FLUOROCARBON(FKM)	NEOPRENE(CR)	POLYACRYLATE(ACM)	FLUOROSILICONE(FVMQ)	SILICONE
DIETHYLENE GLYCOL	■	■	■	■	✕	■	●
DIMETHYL ETHER	✕	✕	✕	▲	▲	▲	✕
DIMETHYL FORMAMIDE	✕	■	✕	–	–	–	■
DIMETHYL PHTHALATE	✕	■	■	✕	✕	–	–
DIMETHYL TEREPHTHALATE	✕	✕	■	✕	✕	–	✕
DIOCTYL PHTHALATE	✕	●	●	✕	✕	●	▲
DIOXANE	✕	●	✕	✕	✕	✕	✕
DIPHENYL	✕	✕	■	✕	✕	●	✕
DOW CORNING-550	■	■	■	■	■	■	▲
DOW GUARD	■	■	■	■	▲	■	■
DOWTHERM,A	✕	✕	■	✕	✕	●	✕
E	✕	✕	■	✕	✕	●	✕
ELCO 28-EP LUBRICANT	■	✕	■	▲	■	■	●
EPOXY RESINS	–	■	✕	■	–	–	–
ETHANE	■	✕	■	●	■	●	✕
ETHANOL	■	■	▲	■	✕	■	■
ETHANOL AMINE	●	●	✕	●	✕	✕	●
ETHYL ACETATE-ORGANIC ESTER	✕	●	✕	✕	✕	✕	●
ETHYL BENZENE	✕	■	■	✕	✕	■	✕
ETHYL CELLULOSE	●	●	✕	●	✕	✕	●
ETHYL CHLORIDE	■	■	■	■	▲	■	✕
ETHYL ETHER	▲	▲	✕	✕	✕	▲	✕
ETHYL FORMATE	✕	●	■	●	–	■	–
ETHYL HHEXANOL	■	■	■	■	✕	■	●
ETHYL MERCAPTAN	✕	▲	✕	●	–	–	▲
ETHYLENE CHLORIDE	✕	✕	■	✕	✕	–	✕
ETHYLENE OXIDE	✕	■	✕	✕	✕	–	✕
FORMALDEHYDE	▲	●	✕	▲	✕	✕	●
FORMIC ACID	●	■	✕	■	–	–	●
FREON 12	■	●	■	■	–	✕	✕
FUEL OIL	■	✕	■	●	■	■	✕
FURAN(FURFURAN)	✕	–	–	✕	✕	–	–
FURFURAL	✕	●	✕	✕	✕	–	✕
FURFURYL ALCOHOL	✕	●	–	✕	✕	✕	✕
FYRQUEL A60	✕	●	✕	✕	✕	✕	▲
GALLIC ACID	●	●	■	●	✕	■	–
GASOLINE	■	✕	■	✕	✕	■	✕
GELATIN	■	■	■	■	✕	■	■
GLUCOSE	■	■	■	■	–	■	■
GLYCERINE-GL YCEROL	■	■	■	■	✕	■	■
N-HEPTANE	■	✕	■	●	■	■	✕
N-HEXALDEHYDE	✕	■	✕	■	–	✕	●
N-HEXANE	■	✕	■	●	■	■	✕
HEXANOL	■	●	■	■	✕	–	■
HOME HEATING OIL	■	✕	■	●	■	–	■

COMPATIBILITY RATING ■ SATISFACTORY ● FAIR (USUALLY OK FOR STATIC SEAL) ▲ DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) ✕ UNSATISFACTORY – INSUFFICIENT DATA	NITRILE(NBR)	EPDM	FLUOROCARBON(FKM)	NEOPRENE(CR)	POLYACRYLATE(ACM)	FLUOROSILICONE(FVMQ)	SILICONE
HYDRAZINE	●	■	–	●	–	–	●
HYDROCHLORIC ACID,							
3 MOLAR	▲	■	■	▲	●	●	✕
CONCENTRATED	✕	▲	■	✕	✕	▲	✕
HYDROCYANIC ACID	●	■	■	●	✕	●	▲
HYDROGEN PEROXIDE	●	■	■	■	✕	■	■
90%	✕	▲	■	✕	✕	●	●
HTDROGEN SULFIDE DRY,COLD	■	■	✕	■	✕	▲	▲
DRY,HOT	✕	■	✕	●	✕	▲	▲
WET,COLD	✕	■	✕	■	✕	▲	▲
WET,HOT	✕	■	✕	●	✕	▲	▲
HYDROQUINONE	▲	✕	●	✕	✕	●	–
HYPOID GEAR LUBE	■	✕	■	●	■	–	●
IODINE	●	●	■	✕	–	■	–
ISOCYANATE	–	–	■	–	–	–	–
ISO OCTANE	■	✕	■	●	■	■	✕
ISOPHORONE(KETONE)	✕	■	✕	✕	✕	✕	✕
ISOPAR	■	✕	■	■	■	–	✕
ISOPROPANOL	●	■	■	●	✕	●	■
ISOPROPYL ACETATE	✕	●	✕	✕	✕	✕	✕
JP-4(MIL-J-5624)	■	✕	■	✕	●	●	✕
JP-5(MIL-J-5624)	■	✕	■	✕	●	●	✕
KEROSINE	■	✕	■	●	■	■	✕
LACTIC ACID,COLD	■	■	■	■	✕	■	–
HOT	✕	✕	■	✕	✕	●	–
LACQUERS	✕	✕	✕	✕	✕	✕	✕
LARD,ANIMAL FAT	■	●	■	●	■	■	●
LINOLEIC ACID	●	✕	●	●	–	–	●
LINSEED OIL	■	▲	■	▲	■	■	■
LYE SOLUTIONS	●	■	●	●	✕	●	●
MALATHION	●	✕	■	–	–	●	✕
MALEIC ACID	✕	✕	■	✕	✕	–	–
MERCURY	■	■	■	■	–	–	–
METER-CRESOL	✕	✕	■	■	✕	–	✕
METHANE	■	✕	■	●	■	●	✕
METHANOL	■	■	✕	■	✕	■	■
METHYL ACETATE	✕	●	✕	●	✕	✕	✕
METHYLACRYLIC ACID	✕	●	▲	●	✕	✕	✕
METHYL CELLOSOLVE	▲	●	✕	▲	✕	✕	✕
METHYL CHLORIDE	✕	▲	■	✕	✕	●	✕
METHYL ETHYL KETONE(MEK)	✕	■	✕	✕	✕	✕	✕
MRTHYL MERCAPTAN	–	■	–	–	–	–	–
MILK	■	■	■	■	✕	■	■
MINERAL OILS	■	▲	■	●	■	■	●
MINERAL SPIRITS	■	✕	■	✕	■	–	✕
MONOVINYL ACETYLENE	■	■	■	●	–	–	●

General Properties of Elastomers

COMPATIBILITY RATING ■ SATISFACTORY ● FAIR (USUALLY OK FOR STATIC SEAL) ▲ DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) ✕ UNSATISFACTORY – INSUFFICIENT DATA	NITRILE(NBR)	EPDM	FLUOROCARBON(FKM)	NEOPRENE(CR)	POLYACRYLATE(ACM)	FLUOROSILICONE(FVMQ)	SILICONE
MUSTARD	–	■	■	–	–	–	■
NAPHTHA	●	✕	■	✕	●	●	✕
NAPHTHALENE	✕	✕	■	✕	–	■	✕
NAPHTHENIC ACID	●	✕	■	✕	–	■	✕
NAYURAL GAS	■	✕	■	■	●	▲	■
NEATSFOOT OIL	■	●	■	✕	■	■	●
NITRIC ACID							
3 MOLAR	✕	●	■	✕	✕	▲	✕
CONCENTRATED	✕	✕	■	✕	✕	▲	✕
RED FUMING(RFNA)	✕	✕	●	✕	✕	✕	✕
INHIBITED RED FUMING(IRENA)	✕	✕	●	✕	✕	✕	✕
NITROBENZENE	✕	✕	●	✕	✕	✕	✕
NITROPROPANE	✕	●	✕	✕	✕	✕	✕
N-OCTANE	●	✕	■	✕	✕	●	✕
OCTANOL	■	■	■	■	✕	–	■
OLEIC ACID	▲	✕	●	✕	✕	–	✕
OLEUM(FUMING SULFURIC ACID)	✕	✕	■	✕	✕	–	✕
ORONITE 8200	●	✕	■	■	–	■	✕
OXALIC ACID	●	■	■	●	–	■	●
PEANUT OIL	■	▲	■	▲	■	■	■
PENTANE, 2 METHYL	■	✕	■	●	■	▲	✕
2-4,DIMETHYL	■	✕	■	●	■	▲	✕
3-METHYL	■	✕	■	●	■	▲	✕
PERCHLOROETHYLENE	●	✕	■	✕	✕	●	✕
PETROLEUM ETHER	✕	✕	■	✕	✕	–	✕
PHENOL	✕	✕	■	✕	✕	●	✕
PHENYLHYDRAZINE	✕	✕	■	✕	✕	–	–
PHOSPHORIC ACID							
3 MOLAR	✕	■	■	▲	–	●	●
CONCENTRATED	✕	●	■	✕	–	●	▲
PINE OIL	■	✕	■	✕	–	■	✕
POTASSIUM HYDROXIDE,50%	●	■	✕	●	✕	▲	▲
PROPANE	■	✕	■	●	■	●	✕
PROPANOL	■	■	■	■	✕	–	■
PROPYL ACETATE	✕	●	✕	✕	✕	✕	✕
PYDRAUL 10E,29ELT	✕	■	■	✕	✕	✕	✕
30E,50E,65E,90E	✕	■	■	✕	✕	■	■
115E	✕	■	■	✕	✕	▲	✕
230E,312C,540C	✕	✕	■	✕	✕	✕	✕
PYRANOL	■	✕	■	■	■	–	✕
PYRIDINE	✕	✕	✕	✕	✕	–	✕
RAPESEED OIL	●	■	■	●	●	■	✕
SAE10W30	■	✕	■	●	■	–	■
SEA(SALT) WATER	■	■	–	●	✕	■	■

COMPATIBILITY RATING ■ SATISFACTORY ● FAIR (USUALLY OK FOR STATIC SEAL) ▲ DOUBTFUL (SOMETIMES OK FOR STATIC SEAL) ✕ UNSATISFACTORY – INSUFFICIENT DATA	NITRILE(NBR)	EPDM	FLUOROCARBON(FKM)	NEOPRENE(CR)	POLYACRYLATE(ACM)	FLUOROSILICONE(FVMQ)	SILICONE
SILICONE GREASES	■	■	■	■	■	■	▲
SILVER NITRATE	●	■	■	■	■	■	■
SKELLY,SOLVENT B,C,E	■	✕	■	✕	–	■	–
SKYDROL	✕	■	■	✕	✕	–	✕
SKYDROL 500	✕	■	✕	✕	✕	▲	▲
SODIUM HYDROXIDE,3 MOLAR	●	■	●	●	✕	●	■
SOVASOL NO.1,2 AND 3	■	✕	■	●	●	■	✕
NO.73 AND 74	●	✕	■	●	●	■	✕
SOYBEAN OIL	■	▲	■	▲	■	■	■
STEARIC ACID	●	●	–	●	–	–	●
STODDARD SOLVENT	■	✕	■	●	■	■	✕
SUCROSE SOLUTIONS	■	■	■	●	✕	■	■
SULFURIC ACID							
3 MOLAR	✕	●	■	▲	●	▲	✕
CONCENTRATED	✕	✕	■	✕	✕	✕	✕
TALL OIL	■	✕	■	●	■	–	–
TANNIC ACID	■	■	■	●	✕	–	●
10%	■	■	■	■	✕	■	●
TAR,BITUMINOUS	●	✕	■	▲	✕	■	●
TARTARIC ACID	■	●	■	●	–	■	■
TETRACHOROETHANE	✕	✕	■	✕	✕	●	–
TETRALIN	✕	✕	■	✕	–	■	✕
TIDEWATER OIL-BEEDOL	■	✕	■	●	■	■	●
MULTIGEAR 140,EP LUBE	■	✕	■	●	■	■	✕
TOLUENE	✕	✕	■	✕	✕	●	✕
TRICHLOROETHYLENE	▲	✕	■	✕	✕	●	✕
TRIETHANOL AMINE	▲	●	✕	●	✕	✕	–
TURBINE OIL	■	✕	■	✕	■	■	✕
TURPENTINE	■	✕	■	✕	●	●	✕
UCDN 50HB 280X	■	■	■	■	–	–	■
UNIVIS J-43	■	✕	■	■	■	–	✕
VARNISH	●	✕	■	✕	✕	●	✕
VINEGAR	●	■	■	●	✕	▲	■
WATER	■	■	●	●	✕	■	■
WHEAT GERM OIL	■	✕	■	●	■	–	■
WHISKEY AND WINES	■	■	■	■	✕	■	■
WOOD OIL	■	✕	■	●	–	●	✕

Design Data : Extrusion Limit of O'Ring & Clearance Gap

The O'Ring is contained in the gland and forced to flow into the surface imperfections of the glands and any clearance gap available to it. So, O'Ring can perform sealing by means of squeeze under low-pressure conditions. However, as the pressure mounts, it becomes distorted. The distortion increases the strain, and the increased strain results in more tight sealing. Under high pressure, O'Ring would extrude out of the clearance gap. The extrusion will cause seal failure in a standard gland configuration.

An anti-extrusion back-up ring, made of a tough, cut-resistant material such as leather, Teflon or hard rubber, is suggested. In static applications it may be possible to modify the gland design to withstand the higher pressure without the addition of a back-up ring. Anyway, care must be taken to make the extrusion as small as possible. The extent of this extrusion depends upon the hardness of O'Ring, pressure and clearance gap.

Please refer to FIG 1, FIG 2 and TABLE 1.

FIG. 1

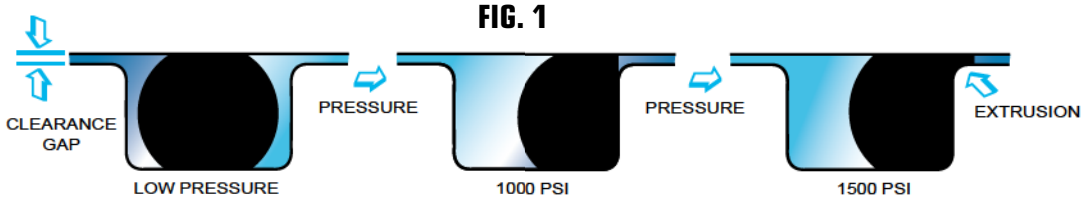
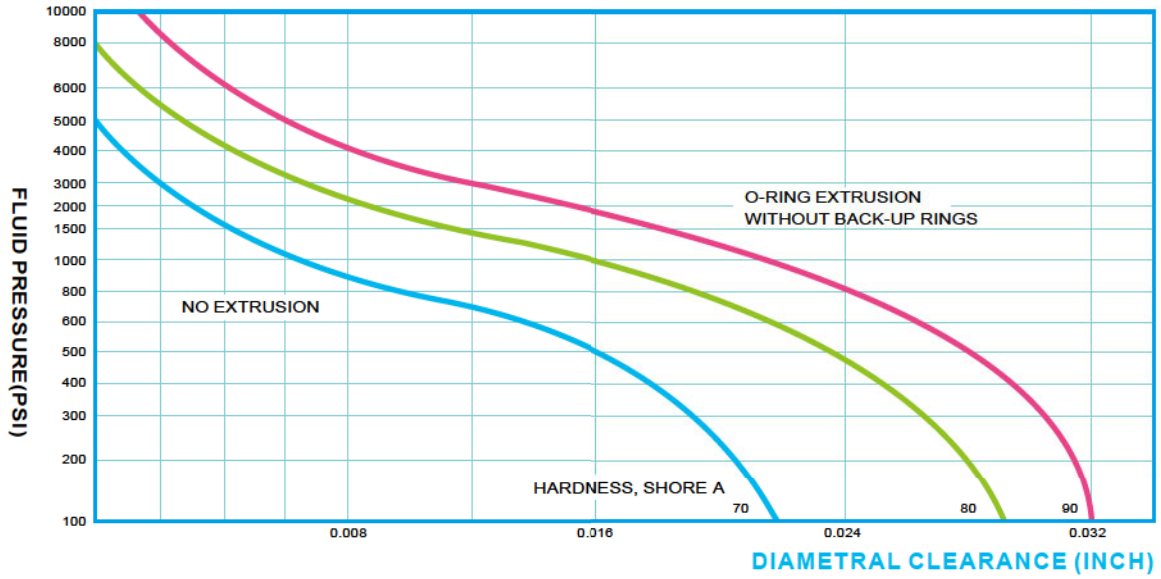
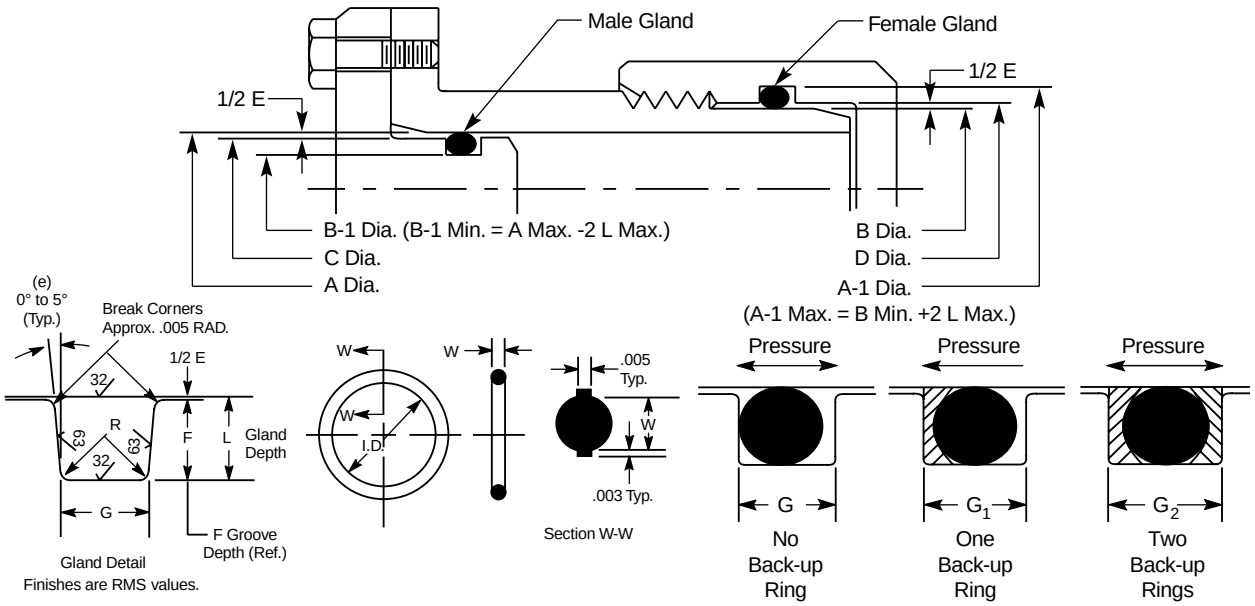


FIG. 2 EXTRUSION LIMIT OF O'RING



General Properties of Elastomers					
Table 1 : Limit of the Diametral Clearance (Unit : Inch) Against Fluid Pressure					
Pressure (PSI) / Hardness Shore A	**UP TO 500**	**500-1000**	**1000-1500**	**1500-2000**	**2000-3000**
70 90	0.016 0.028	0.010 0.024	0.006 0.020	0.004 0.016	0.002 0.010

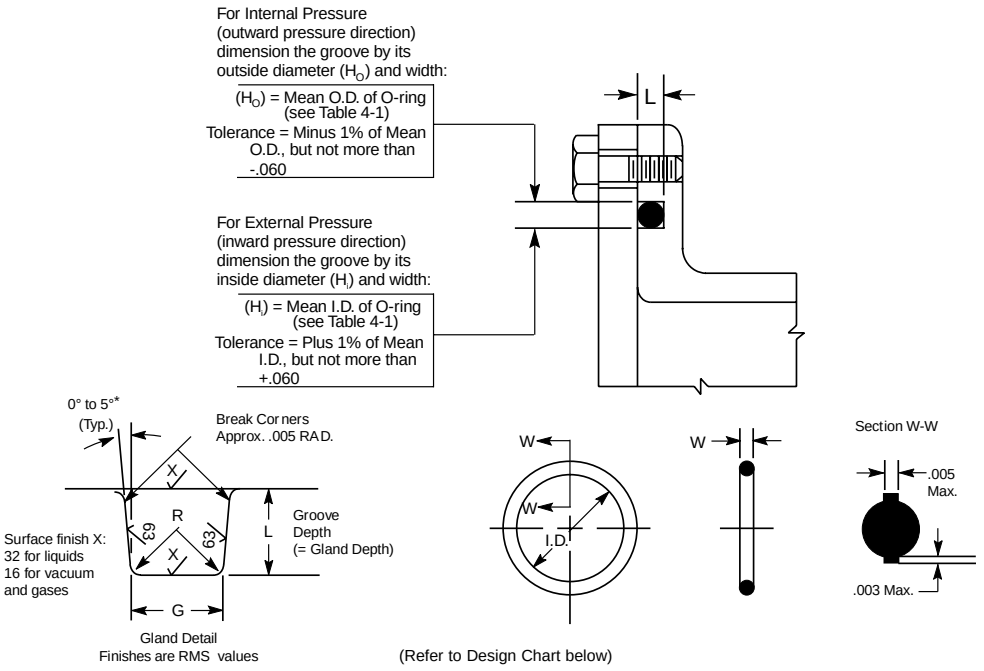
Industrial Static Seal Glands



Design Chart — For Industrial O'Ring Static Seal Glands											
O'Ring 2-Size AS568A	W Cross-Section		L Gland depth	Squeeze		E(a) Diametral Clearance	G-Groove Width			R Groove Radius	Max. Eccen-tricity(b)
	Nominal	Actual		Actual	%		No Back-Up Ring (G)	One Back-Up Ring $(G)_1$	No Back-Up Ring $(G)_2$		
004 through 050	1/16	.070 ±.003	.050 to .052	.015 to .023	22 to 32	.002 to .005	.093 to .098	.138 to .143	.205 to .210	.005 to .015	.002
102 through 178	3/32	.103 ±.003	.081 to .083	.017 to .025	17 to 24	.002 to .005	.140 to .145	.171 to .176	.238 to .243	.005 to .015	.002
201 through 284	1/8	.139 ±.004	.111 to .113	.022 to .032	16 to 23	.003 to .006	.187 to .192	.208 to .213	.275 to .280	.010 to .025	.003
309 through 395	3/16	.210 ±.005	.170 to .173	.032 to .045	15 to 21	.003 to .006	.281 to .286	.311 to .316	.410 to .415	.020 to .035	.004
425 through 475	1/4	.275 ±.006	.226 to .229	.040 to .055	15 to 20	.004 to .007	.375 to .380	.408 to .413	.538 to .543	.020 to .035	.005

(a) Clearance (extrusion gap) must be held to minimum consistent with design requirements for temperature range variation.
(b) Total indicator reading between groove and adjacent bearing surface.
(c) Rediuce maximum diametral clearance 50% when usign silicone or fluorosilicone O'Rings.
(d) For ease of assembly, when Back-Up Rings are used, glans depth may be increased up to 5%.

Face Seal Glands



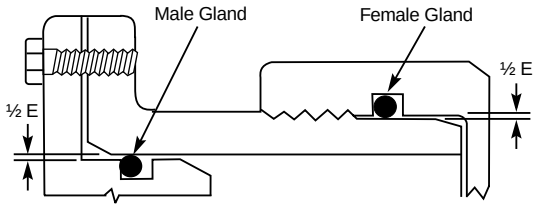
(Refer to Design Chart below)

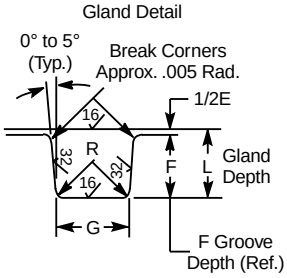
Design Chart — For Face Seal Glands

These dimensions are intended primarily for face type O'Ring seals and low temperature applications.

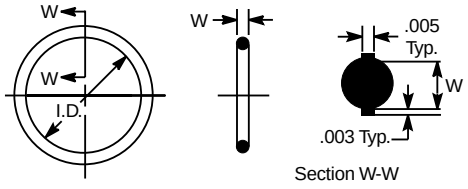
O'Ring 2-Size AS568A	W Cross-Section		L Gland depth	Squeeze		G-Groove Width		R Groove Radius
	Nominal	Actual		Actual	%	Liquids	Vaccum and Gases	
004 through 050	1/16	.070 ± .003	.050 to .054	.013 to .023	19 to 32	.101 to .107	.084 to .089	.005 to .015
102 through 178	3/32	.103 ± .003	.074 to .080	.020 to .032	20 to 30	.136 to .142	.120 to .125	.005 to .015
201 through 284	1/8	.139 ± .004	.101 to .107	.028 to .042	20 to 30	.177 to .187	.158 to .164	.010 to .025
309 through 395	3/16	.210 ± .005	.152 to .162	.043 to .063	21 to 30	.270 to .290	.239 to .244	.020 to .035
425 through 475	1/4	.275 ± .006	.201 to .211	.058 to .080	21 to 29	.342 to .362	.309 to .314	.020 to .035
Special	3/8	.375 ± .007	.276 to .286	.082 to .106	22 to 28	.475 to .485	.419 to .424	.030 to .045
Special	1/2	.500 ± .008	.370 to .380	.112 to .138	22 to 27	.638 to .645	.560 to .565	.030 to .045

Static Vaccum Seal Glands





Finishes are RMS values



Section W-W

Design Chart — For Static Vaccum Seal Glands									
O'Ring 2-Size AS568A	W Cross-Section		L Gland depth	Squeeze		E(a) Diametral Clearance	G Groove Width	R Groove Radius	Max. Eccentricity (b)
	Nominal	Actual		Actual	%				
004 through 050	1/16	.070 ±.003	.050 to .052	.015 to .023	22 to 32	.002 to .005	.093 to .098	.005 to .015	.002
102 through 178	3/32	.103 ±.003	.081 to .083	.017 to .025	17 to 24	.002 to .005	.140 to .145	.005 to .015	.002
201 through 284	1/8	.139 ±.004	.111 to .113	.022 to .032	16 to 23	.003 to .006	.187 to .192	.010 to .025	.003
309 through 395	3/16	.210 ±.005	.170 to .173	.032 to .045	15 to 21	.003 to .006	.281 to .286	.020 to .035	.004
425 through 475	1/4	.275 ±.006	.226 to .229	.040 to .055	15 to 20	.004 to .007	.375 to .380	.020 to .035	.005

* Total indicator reading between groove and adjacent bearing surface.

Series 2-XXX - O'Rings (001....043)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-001	**-001**	1/32	3/32	1/32	0.029	.004	0.040	.003	0.000	0.740	.100	1.020	.080	2-001
2-002	**-002**	3/64	9/64	3/64	0.042		0.050		0.001	1.070		1.270		2-002
2-003	**-003**	1/16	3/16	1/16	0.056		0.060		0.001	1.420		1.520		2-003
2-004	**-004**	5/64	13/64	1/16	0.070	.005	0.070		0.002	1.780	.130	1.780		2-004
2-005	**-005**	3/32	7/32	1/16	0.101		0.070		0.002	2.570		1.780		2-005
2-006	**-006**	1/8	1/4	1/16	0.114		0.070		0.002	2.900		1.780		2-006
2-007	**-007**	5/32	9/32	1/16	0.145		0.070		0.003	3.680		1.780		2-007
2-008	**-008**	3/16	5/16	1/16	0.176		0.070		0.003	4.470		1.780		2-008
2-009	**-009**	7/32	11/32	1/16	0.208		0.070		0.003	5.280		1.780		2-009
2-010	**-010**	1/4	3/8	1/16	0.239		0.070		0.004	6.070		1.780		2-010
2-011	**-011**	5/16	7/16	1/16	0.301		0.070		0.005	7.650		1.780		2-011
2-012	**-012**	3/8	1/2	1/16	0.364		0.070		0.005	9.250		1.780		2-012
2-013	**-013**	7/16	9/16	1/16	0.426		0.070		0.006	10.820		1.780		2-013
2-014	**-014**	1/2	5/8	1/16	0.489		0.070		0.007	12.420		1.780		2-014
2-015	**-015**	9/16	11/16	1/16	0.551	.007	0.070		0.008	14.000	.180	1.780		2-015
2-016	**-016**	5/8	3/4	1/16	0.614	.009	0.070		0.008	15.600	.230	1.780		2-016
2-017	**-017**	11/16	13/16	1/16	0.676		0.070		0.009	17.170		1.780		2-017
2-018	**-018**	3/4	7/8	1/16	0.739		0.070		0.010	18.770		1.780		2-018
2-019	**-019**	13/16	15/16	1/16	0.801		0.070		0.011	20.350		1.780		2-019
2-020	**-020**	7/8	1	1/16	0.864		0.070		0.011	21.950		1.780		2-020
2-021	**-021**	15/16	1 1/16	1/16	0.926		0.070		0.012	23.520		1.780		2-021
2-022	**-022**	1	1 1/8	1/16	0.989	.010	0.070		0.013	25.120	.250	1.780		2-022
2-023	**-023**	1 1/16	1 3/16	1/16	1.051		0.070		0.014	26.700		1.780		2-023
2-024	**-024**	1 1/8	1 1/4	1/16	1.114		0.070		0.014	28.300		1.780		2-024
2-025	**-025**	1 3/16	1 5/16	1/16	1.176	.011	0.070		0.015	29.870	.280	1.780		2-025
2-026	**-026**	1 1/4	1 3/8	1/16	1.239		0.070		0.016	31.470		1.780		2-026
2-027	**-027**	1 5/16	1 7/16	1/16	1.301		0.070		0.017	33.050		1.780		2-027
2-028	**-028**	1 3/8	1 1/2	1/16	1.364	.013	0.070		0.017	34.650	.330	1.780		2-028
2-029	**-029**	1 1/2	1 5/8	1/16	1.489		0.070		0.019	37.820		1.780		2-029
2-030	**-030**	1 5/8	1 3/4	1/16	1.614		0.070		0.020	41.000		1.780		2-030
2-031	**-031**	1 3/4	1 7/8	1/16	1.739	.015	0.070		0.022	44.170	.380	1.780		2-031
2-032	**-032**	1 7/8	2	1/16	1.864		0.070		0.023	47.350		1.780		2-032
2-033	**-033**	2	2 1/8	1/16	1.989	.018	0.070		0.025	50.520	.460	1.780		2-033
2-034	**-034**	2 1/8	2 1/4	1/16	2.114		0.070		0.026	53.700		1.780		2-034
2-035	**-035**	2 1/4	2 3/8	1/16	2.239		0.070		0.028	56.870		1.780		2-035
2-036	**-036**	2 3/8	2 1/2	1/16	2.364		0.070		0.029	60.050		1.780		2-036
2-037	**-037**	2 1/2	2 5/8	1/16	2.489		0.070		0.031	63.220		1.780		2-037
2-038	**-038**	2 5/8	2 3/4	1/16	2.614	.020	0.070		0.032	66.400	.510	1.780		2-038
2-039	**-039**	2 3/4	2 7/8	1/16	2.739		0.070		0.034	69.570		1.780		2-039
2-040	**-040**	2 7/8	3	1/16	2.864		0.070		0.036	72.750		1.780		2-040
2-041	**-041**	3	3 1/8	1/16	2.989	.024	0.070		0.037	75.920	.610	1.780		2-041
2-042	**-042**	3 1/4	3 3/8	1/16	3.239		0.070		0.040	82.270		1.780		2-042
2-043	**-043**	3 1/2	3 5/8	1/16	3.489		0.070		0.043	88.620		1.780		2-043

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-001	0.09	0.36*	0.59	0.58*	0.94*	O/R	1.04*	2.58*	O/R	O/R	O/R
-002	0.09	0.22*	0.59*	0.58*	0.94*	O/R	1.04*	5.08*	O/R	2.32*	O/R
-003	0.09	0.22*	0.59	0.64	0.94*	O/R	1.04*	4.90*	1.76*	2.32*	O/R
-004	0.09	0.22	0.59*	0.72*	0.94*	O/R	1.04*	4.96*	1.76*	2.01	O/R
-005	0.09	0.17*	0.59	0.72*	0.94*	O/R	1.04*	3.37*	2.02*	2.01	O/R
-006	0.04	0.11	0.59	0.84	0.94	0.94*	1.04	3.84*	2.93	2.01	1.24*
-007	0.04	0.17	0.59	1.02	0.94*	0.94*	1.04*	4.66*	2.28*	2.01	1.56*
-008	0.04	0.17	0.59	1.14	0.88*	0.94*	0.95	4.77	2.64	2.01	1.27
-009	0.04	0.17	0.59	1.22	0.94*	0.94*	1.24	4.84	3.58	2.01	0.94
-010	0.09	0.17	0.59	1.44	0.98*	0.94*	1.07*	4.89	3.58	2.01	0.78
-011	0.09	0.17	0.59	1.18	1.05	0.94*	1.10*	4.95	3.58*	2.01*	0.70
-012	0.09	0.17	0.61	1.25	1.11	0.94	1.10	5.02	4.86	2.01	0.38
-013	0.09	0.19	0.65	1.66	1.49	0.94*	1.10	5.06	3.79	2.01	0.56
-014	0.09	0.19	0.65	1.41	1.50*	0.94*	1.08	5.06	4.09*	2.01	0.35
-015	0.11	0.22	0.78	1.28	1.50	0.94*	1.14*	5.09	4.31	2.01*	0.35
-016	0.11	0.22	0.78	1.28	0.94*	0.94*	1.17*	5.09	5.77*	2.55	0.35
-017	0.16	0.25	0.78	1.27	0.94*	0.94*	1.36	5.25	4.14*	2.55*	0.40
-018	0.16	0.25	0.78	1.28	1.74*	0.94*	1.17	5.37	5.49*	2.55	0.50
-019	0.17	0.36	0.85	1.28	0.94	0.94*	1.38	5.47	4.20	2.55*	0.42
-020	0.17	0.36	0.91	1.33	0.94	0.94*	1.66*	5.42	5.85	2.55	0.58
-021	0.17	0.42	0.98	1.41	0.96*	0.96*	1.70*	9.80*	6.84*	2.55	0.46
-022	0.17	0.42	1.07	1.41	1.12	1.12*	1.84*	7.14*	6.84*	3.12	0.46
-023	0.20	0.42	1.07	1.88	1.16*	1.16*	2.06*	7.14*	6.92*	3.12	0.64
-024	0.20	0.45	1.30	2.16	1.18*	1.18*	2.14*	11.78	6.92	3.12	0.66
-025	0.26	0.48	1.30	1.73	1.34	1.34*	1.17	11.66	5.44*	3.59	0.52
-026	0.29	0.49	1.41	2.58	1.68*	1.68*	2.40*	12.70	8.94	3.59	0.52
-027	0.29	0.49	1.44	2.66*	1.66	1.66*	2.54*	13.20	7.44	3.73*	0.70*
-028	0.29	0.49	1.64	2.86	1.66*	1.66*	2.40*	12.74	10.02*	3.85	0.52
-029	0.33	0.59	1.85	2.90	1.70*	1.70*	2.92*	14.10*	10.89*	3.85*	0.52
-030	0.38	0.59	1.98	3.28*	1.80	1.80*	3.26*	15.20*	10.89*	4.32	1.12
-031	0.42	0.76	2.24	3.68	2.18*	2.18*	3.58*	10.12	8.50*	4.19	1.12
-032	0.48	0.81	2.64	4.54	2.28*	2.28*	3.92	16.84	11.43*	4.51*	0.96
-033	0.59	1.07	2.85	4.74	2.82*	2.82*	4.46*	19.10	9.16*	3.33	0.96*
-034	0.62	1.10	2.85	5.30*	2.88*	2.88*	4.76*	19.60*	12.40*	3.44*	0.96
-035	0.62	1.10	2.93	5.80	2.98*	2.98*	5.04*	20.08*	12.52*	3.56*	1.10
-036	0.66	1.18	3.36	6.06	3.20*	3.20*	5.28	21.10*	13.00*	6.13*	1.10
-037	0.66	1.24	3.40	6.24*	3.32*	3.32*	5.56*	31.16*	13.00*	4.47*	1.10
-038	0.76	1.27	3.52	6.76	3.52*	3.52*	5.62*	35.26*	13.06*	5.62*	1.10
-039	0.78	1.34	3.75	6.86	3.72*	3.72*	6.16*	37.14*	14.00*	5.04*	1.14
-040	0.81	1.37	3.87	1.56*	3.78*	3.78*	6.82*	41.82*	14.96*	5.15*	1.23
-041	0.91	1.57	4.45	7.60	4.14*	4.14*	7.06*	44.24*	15.74*	5.28*	1.46
-042	1.00	1.73	5.22	8.08	4.64*	4.64*	1.50*	48.54*	21.06*	5.51*	1.46
-043	1.05	1.85	5.64	8.58*	5.06*	5.06*	8.00*	51.32*	21.32*	6.13*	1.53

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (044....137)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-044	**-044**	3 3/4	3 7/8	1/16	3.739	.027	0.070	.003	0.046	94.970	.690	1.780	.080	2-044
2-045	**-045**	4	4 1/8	1/16	3.989		0.070		0.049	101.320		1.780		2-045
2-046	**-046**	4 1/4	4 3/8	1/16	4.239	.030	0.070		0.052	107.670	.760	1.780		2-046
2-047	**-047**	4 1/2	4 5/8	1/16	4.489		0.070		0.055	114.020		1.780		2-047
2-048	**-048**	4 3/4	4 7/8	1/16	4.739		0.070		0.058	120.370		1.780		2-048
2-049	**-049**	5	5 1/8	1/16	4.989	.037	0.070		0.061	126.720	.940	1.780		2-049
2-050	**-050**	5 1/4	5 3/8	1/16	5.239		0.070		0.064	133.070		1.780		2-050
2-102	**-102**	1/16	1/4	3/32	0.049	.005	0.103		0.004	1.240	.130	2.620		2-102
2-103	**-103**	3/32	9/32	3/32	0.081		0.103		0.005	2.060		2.620		2-103
2-104	**-104**	1/8	5/16	3/32	0.112		0.103		0.006	2.840		2.620		2-104
2-105	**-105**	5/32	11/32	3/32	0.143		0.103		0.006	3.630		2.620		2-105
2-106	**-106**	3/16	3/8	3/32	0.174		0.103		0.007	4.420		2.620		2-106
2-107	**-107**	7/32	13/32	3/32	0.206		0.103		0.008	5.230		2.620		2-107
2-108	**-108**	1/4	7/16	3/32	0.237		0.103		0.009	6.020		2.620		2-108
2-109	**-109**	5/16	1/2	3/32	0.299		0.103		0.011	7.590		2.620		2-109
2-110	**-110**	3/8	9/16	3/32	0.362		0.103		0.012	9.190		2.620		2-110
2-111	**-111**	7/16	5/8	3/32	0.424		0.103		0.014	10.770		2.620		2-111
2-112	**-112**	1/2	11/16	3/32	0.487		0.103		0.015	12.370		2.620		2-112
2-113	**-113**	9/16	3/4	3/32	0.549	.007	0.103		0.017	13.940	.180	2.620		2-113
2-114	**-114**	5/8	13/16	3/32	0.612	.009	0.103		0.019	15.540	.230	2.620		2-114
2-115	**-115**	11/16	7/8	3/32	0.674		0.103		0.020	17.120		2.620		2-115
2-116	**-116**	3/4	15/16	3/32	0.737		0.103		0.022	18.720		2.620		2-116
2-117	**-117**	13/16	1	3/32	0.799	.010	0.103		0.024	20.300	.250	2.620		2-117
2-118	**-118**	7/8	1 1/16	3/32	0.862		0.103		0.025	21.890		2.620		2-118
2-119	**-119**	15/16	1 1/8	3/32	0.924		0.103		0.027	23.470		2.620		2-119
2-120	**-120**	1	1 3/16	3/32	0.987		0.103		0.029	25.070		2.620		2-120
2-121	**-121**	1 1/16	1 1/4	3/32	1.049		0.103		0.030	26.640		2.620		2-121
2-122	**-122**	1 1/8	1 5/16	3/32	1.112		0.103		0.032	28.240		2.620		2-122
2-123	**-123**	1 3/16	1 3/8	3/32	1.174	.012	0.103		0.033	29.820	.300	2.620		2-123
2-124	**-124**	1 1/4	1 7/16	3/32	1.237		0.103		0.035	31.420		2.620		2-124
2-125	**-125**	1 5/16	1 1/2	3/32	1.299		0.103		0.037	32.990		2.620		2-125
2-126	**-126**	1 3/8	1 9/16	3/32	1.362		0.103		0.038	34.590		2.620		2-126
2-127	**-127**	1 7/16	1 5/8	3/32	1.424		0.103		0.040	36.170		2.620		2-127
2-128	**-128**	1 1/2	1 11/16	3/32	1.487		0.103		0.042	37.770		2.620		2-128
2-129	**-129**	1 9/16	1 3/4	3/32	1.549	.015	0.103		0.043	39.340	.380	2.620		2-129
2-130	**-130**	1 5/8	1 13/16	3/32	1.612		0.103		0.045	40.940		2.620		2-130
2-131	**-131**	1 11/16	1 7/8	3/32	1.674		0.103		0.047	42.520		2.620		2-131
2-132	**-132**	1 3/4	1 15/16	3/32	1.737		0.103		0.048	44.120		2.620		2-132
2-133	**-133**	1 13/16	2	3/32	1.799		0.103		0.050	45.690		2.620		2-133
2-134	**-134**	1 7/8	2 1/16	3/32	1.862		0.103		0.051	47.290		2.620		2-134
2-135	**-135**	1 15/16	2 1/8	3/32	1.925	.017	0.103		0.053	48.900	.430	2.620		2-135
2-136	**-136**	2	2 3/16	3/32	1.987		0.103		0.055	50.470		2.620		2-136
2-137	**-137**	2 1/16	2 1/4	3/32	2.050		0.103		0.056	52.070		2.620		2-137

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (044....137)

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-044	1.24	2.08	6.03*	9.10*	5.74*	5.74*	8.82*	55.74*	14.98*	20.97*	1.53
-045	1.27	2.34	6.58	9.58*	6.12*	6.12*	9.58*	60.20*	22.06*	6.19*	1.74
-046	1.37	2.94	6.87	9.84	7.76*	7.76*	10.24*	64.64*	22.46*	6.25*	1.93
-047	1.50	3.07	7.64	11.06*	8.22*	8.22*	11.24*	68.92*	23.38*	7.59*	2.06*
-048	1.80	3.41	7.93	O/R	8.74*	8.74*	11.46*	O/R	24.18*	7.82*	2.80*
-049	2.32	3.75	10.34*	15.20	10.02*	10.02*	14.14*	O/R	25.14*	16.34*	2.90
-050	2.32	4.13*	11.09	16.18*	11.00*	11.00*	15.76*	73.98*	O/R	10.78*	3.14*
-102	0.16	0.25	0.68	1.58*	0.70*	0.70*	1.16*	O/R	O/R	O/R	O/R
-103	0.16*	0.22*	O/R	1.58*	0.62*	0.62*	1.08*	O/R	O/R	2.66*	O/R
-104	0.09	0.17	0.75*	1.58*	0.40*	0.40*	1.04*	O/R	O/R	2.76*	O/R
-105	0.09	0.19	0.78	1.58*	0.44*	0.44*	1.08*	9.74*	O/R	2.80	O/R
-106	0.09	0.19	0.75	1.58*	0.44*	0.44*	1.08*	7.74	3.14*	2.88	0.64*
-107	0.09	0.19	0.75	1.58*	0.48*	0.48*	1.08*	O/R	3.14*	2.92*	O/R
-108	0.20	0.19	0.78	1.62	0.50*	0.50*	0.95*	O/R	3.14	2.00	0.64
-109	0.09	0.19	0.82	1.50	0.50*	0.50*	1.08*	8.28*	4.57*	2.31	0.92*
-110	0.11	0.19	0.85	1.62	1.17	1.54*	1.03	6.30	4.57	2.31	0.52
-111	0.11	0.19	0.91	1.50	1.24*	1.60*	1.07	6.30*	4.57*	2.31	0.78
-112	0.11	0.22	1.03	1.82	1.28	1.70*	1.44	6.30*	5.03	2.31	0.78
-113	0.11	0.22	1.07	1.50	1.34	1.78*	0.95	8.77	3.90	2.31	1.00
-114	0.16	0.22	1.07	2.24	1.43	1.90*	1.34*	7.87	5.08	2.31	1.28*
-115	0.16	0.22	1.24	2.66	1.44*	1.94*	1.07*	7.87	5.08*	2.31	1.00
-116	0.16	0.25	1.30	2.88	1.50	1.98*	1.10*	9.56	5.77	2.55	0.76
-117	0.16	0.36	1.39	3.20	2.12	2.12*	1.17	10.11	6.73	2.55	0.45
-118	0.17	0.36	1.41	3.48	2.16*	2.16*	1.30*	11.45	5.70	2.78	0.42
-119	0.17	0.42	1.51	3.54	2.28*	2.28*	1.78*	11.45	5.72	2.78	0.46
-120	0.17	0.42	1.64	3.58	2.38	2.38*	1.37*	12.21	5.72	2.78	0.48
-121	0.20	0.45	1.80	13.27	2.76*	2.76*	2.10*	12.21	10.66*	2.78	0.48
-122	0.20	0.45	1.98	3.70	2.86*	2.86*	2.18*	12.21	10.66*	2.78	0.96
-123	0.20	0.48	2.08	3.70	2.98*	2.98*	2.24*	13.35	5.86	2.78	1.14
-124	0.29	0.49	2.08	3.72	3.16*	3.16*	2.44*	13.35	5.88	2.78	1.23
-125	0.29	0.49	2.19	4.14*	3.52*	3.52*	2.48*	16.58	6.24*	2.92	1.23
-126	0.33	0.55	2.31	4.56	1.22	1.22*	2.58*	17.58	8.67*	2.92	1.23*
-127	0.36	0.56	2.36	4.74	1.26	1.26*	2.60*	18.16	6.36	2.92*	1.23
-128	0.38	0.65	2.51	5.00*	1.50*	1.50*	2.72*	21.16	6.80*	2.92	1.23
-129	0.38	0.65	2.65	5.36	1.50*	1.50*	3.12	21.30	7.06	2.92*	1.23
-130	0.42	0.76	2.81	5.74	1.68	1.68*	3.22*	7.28*	5.80*	2.92	1.23
-131	0.45	0.79	2.81	3.13	1.72*	1.72*	3.36*	17.65*	7.32	3.40*	1.23
-132	0.45	0.79	2.88	6.60	1.76	1.76*	3.46*	7.90	10.29*	3.40*	1.28
-133	0.48	0.81	3.03	7.06	1.88*	1.88*	3.60	17.65	10.54	3.40	1.28
-134	0.48	0.88	3.03	7.28*	2.02	2.02*	3.74*	17.65	10.40*	3.40*	1.28
-135	0.48	0.98	3.16	7.40	2.12*	2.12*	3.88*	24.60*	9.98*	4.62*	1.28
-136	0.49	1.00	3.38	7.46*	2.20*	2.20*	4.30*	8.75*	10.16	4.75	1.28
-137	0.49	1.00	3.45	7.50*	2.20*	2.20*	4.42*	8.77*	14.16*	4.92	1.28

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (138....202)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-138	**-138**	2 1/8	2 5/16	3/32	2.112	.017	0.103	.003	0.058	53.640	.430	2.620	.080	2-138
2-139	**-139**	2 3/16	2 3/8	3/32	2.175		0.103		0.060	55.250		2.620		2-139
2-140	**-140**	2 1/4	2 7/16	3/32	2.237		0.103		0.061	56.820		2.620		2-140
2-141	**-141**	2 5/16	2 1/2	3/32	2.300	.020	0.103		0.063	58.420	.510	2.620		2-141
2-142	**-142**	2 3/8	2 9/16	3/32	2.362		0.103		0.065	59.990		2.620		2-142
2-143	**-143**	2 7/16	2 5/8	3/32	2.425		0.103		0.066	61.600		2.620		2-143
2-144	**-144**	2 1/2	2 11/16	3/32	2.487		0.103		0.068	63.170		2.620		2-144
2-145	**-145**	2 9/16	2 3/4	3/32	2.550		0.103		0.069	64.770		2.620		2-145
2-146	**-146**	2 5/8	2 13/16	3/32	2.612		0.103		0.071	66.340		2.620		2-146
2-147	**-147**	2 11/16	2 7/8	3/32	2.675	.022	0.103		0.073	67.950	.560	2.620		2-147
2-148	**-148**	2 3/4	2 15/16	3/32	2.737		0.103		0.074	69.520		2.620		2-148
2-149	**-149**	2 13/16	3	3/32	2.800		0.103		0.076	71.120		2.620		2-149
2-150	**-150**	2 7/8	3 1/16	3/32	2.862		0.103		0.078	72.690		2.620		2-150
2-151	**-151**	3	3 3/16	3/32	2.987	.024	0.103		0.081	75.870	.610	2.620		2-151
2-152	**-152**	3 1/4	3 7/16	3/32	3.237		0.103		0.087	82.220		2.620		2-152
2-153	**-153**	3 1/2	3 11/16	3/32	3.487		0.103		0.094	88.570		2.620		2-153
2-154	**-154**	3 3/4	3 15/16	3/32	3.737	.028	0.103		0.101	94.920	.710	2.620		2-154
2-155	**-155**	4	4 3/16	3/32	3.987		0.103		0.107	101.270		2.620		2-155
2-156	**-156**	4 1/4	4 7/16	3/32	4.237	.030	0.103		0.114	107.620	.760	2.620		2-156
2-157	**-157**	4 1/2	4 11/16	3/32	4.487		0.103		0.120	113.970		2.620		2-157
2-158	**-158**	4 3/4	4 15/16	3/32	4.737		0.103		0.127	120.320		2.620		2-158
2-159	**-159**	5	5 3/16	3/32	4.987	.035	0.103		0.133	126.670	.890	2.620		2-159
2-160	**-160**	5 1/4	5 7/16	3/32	5.237		0.103		0.140	133.020		2.620		2-160
2-161	**-161**	5 1/2	5 11/16	3/32	5.487		0.103		0.146	139.370		2.620		2-161
2-162	**-162**	5 3/4	5 15/16	3/32	5.737		0.103		0.153	145.720		2.620		2-162
2-163	**-163**	6	6 3/16	3/32	5.987		0.103		0.159	152.070		2.620		2-163
2-164	**-164**	6 1/4	6 7/16	3/32	6.237	.040	0.103		0.166	158.420	1.02	2.620		2-164
2-165	**-165**	6 1/2	6 11/16	3/32	6.487		0.103		0.173	164.770		2.620		2-165
2-166	**-166**	6 3/4	6 15/16	3/32	6.737		0.103		0.179	171.120		2.620		2-166
2-167	**-167**	7	7 3/16	3/32	6.987		0.103		0.186	177.470		2.620		2-167
2-168	**-168**	7 1/4	7 7/16	3/32	7.237	.045	0.103		0.192	183.820	1.04	2.620		2-168
2-169	**-169**	7 1/2	7 11/16	3/32	7.487		0.103		0.199	190.170		2.620		2-169
2-170	**-170**	7 3/4	7 15/16	3/32	7.737		0.103		0.205	196.520		2.620		2-170
2-171	**-171**	8	8 3/16	3/32	7.987		0.103		0.212	202.870		2.620		2-171
2-172	**-172**	8 1/4	8 7/16	3/32	8.237	.050	0.103		0.218	209.220	1.27	2.620		2-172
2-173	**-173**	8 1/2	8 11/16	3/32	8.487		0.103		0.225	215.570		2.620		2-173
2-174	**-174**	8 3/4	8 15/16	3/32	8.737		0.103		0.231	221.920		2.620		2-174
2-175	**-175**	9	9 3/16	3/32	8.987		0.103		0.238	228.270		2.620		2-175
2-176	**-176**	9 1/4	9 7/16	3/32	9.237	.055	0.103		0.245	234.620	1.40	2.620		2-176
2-177	**-177**	9 1/2	9 11/16	3/32	9.487		0.103		0.251	240.970		2.620		2-177
2-178	**-178**	9 3/4	9 15/16	3/32	9.737		0.103		0.258	247.320		2.620		2-178
2-201	**-201**	3/16	7/16	1/8	0.171		0.139	.004	0.015	4.340	3.30	3.530	.100	2-201
2-202	**-202**	1/4	1/2	1/8	0.234	.005	0.139		0.018	5.940		3.530		2-202

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (138....202)

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-138	0.59	1.07	3.60	7.62	2.34*	2.34*	4.54*	26.46	11.36*	5.34	1.28
-139	0.59	1.10	3.72	7.70*	2.44*	2.44*	4.68*	27.08*	11.02*	5.34	1.28
-140	0.59	1.10	3.84	7.84*	2.46*	2.46*	4.82*	27.70	11.86*	5.61	1.28
-141	0.66	1.10	3.92	8.06*	2.50*	2.50*	4.92	28.32	12.28	5.82	1.28
-142	0.66	1.17	3.92	8.10	2.50*	2.50*	5.06*	28.96	17.35*	6.08*	1.28
-143	0.66	1.24	4.11	8.26	2.70*	2.70*	5.18	29.56*	12.54*	5.00*	1.28
-144	0.76	1.24	4.11	8.30*	2.76*	2.76*	5.32	40.64*	13.22	6.33*	1.28
-145	0.76	1.24	4.28	8.74*	2.78*	2.78*	5.46	41.50*	19.12	6.40	1.28
-146	0.76	1.28	4.41	9.04*	2.86*	2.86*	5.56	42.30*	13.88*	6.40*	1.28
-147	0.76	1.28	4.48	10.06*	2.90*	2.90*	5.74*	43.14*	13.24*	6.50*	14.79
-148	0.76	1.28	4.64	10.32*	2.92*	2.92*	5.90*	18.96*	13.36*	6.51	1.37
-149	0.78	1.34	4.77	11.06*	3.02	3.02*	5.98*	46.86*	13.56*	6.56	1.37
-150	0.78	1.47	5.09	12.34*	3.32*	3.32*	6.42*	47.72*	14.28*	9.94	1.37
-151	0.85	1.50	5.58	12.94	3.38*	3.38*	6.76*	49.48	15.58*	6.72	1.39
-152	1.00	1.80	6.17	16.68	3.96	3.96*	7.68*	52.98*	21.96*	6.77	1.78
-153	1.05	1.85	6.75	18.38	4.10*	4.10*	8.08	56.48	23.78*	7.12	1.46
-154	1.05	2.22	7.38	18.84*	4.56*	4.56*	9.06*	59.98*	24.04*	6.89	1.53
-155	1.37	2.68	7.67	19.14	5.22*	5.22*	9.82*	63.48	24.42*	10.42	1.93
-156	1.71	3.00	8.55	19.70*	6.12*	6.12*	11.14*	66.94*	25.60*	6.89	2.34
-157	1.76	3.69	9.42	20.58	7.40*	7.40*	11.60*	70.44*	26.30	7.01	2.85
-158	1.80	3.75	9.95	21.38	7.90*	7.90*	13.06*	73.96	22.60*	8.27	3.10
-159	1.93	4.31	10.90	12.49	9.04*	9.04*	13.54*	77.46*	30.36*	8.50	3.38
-160	2.08	4.54	12.46	22.96	10.08*	10.08*	15.08*	80.96*	30.94*	12.92*	3.60*
-161	2.32	4.92	13.73	23.92*	10.78*	10.78*	17.36*	84.46*	31.52*	8.77*	4.04*
-162	2.71	5.05	14.77	24.70	12.28*	12.28*	19.42*	87.96*	32.26*	13.64	5.62*
-163	2.84	5.32	15.95	26.14	12.98*	12.98*	21.46*	91.46*	33.04*	13.80	4.56*
-164	3.16	5.55	16.89	27.72*	15.80*	15.80*	22.72*	O/R	33.44*	6.58*	4.70
-165	3.26	5.81	18.58	29.28*	16.28*	16.28*	24.02*	O/R	34.16*	24.86*	6.10*
-166	3.26	6.16	18.92	29.98	17.10*	17.10*	25.64*	O/R	35.70*	28.12	6.16*
-167	3.26	6.39	19.16*	30.52	18.56*	18.56*	29.20*	O/R	O/R	28.64*	6.30*
-168	3.56	11.18	20.09*	30.80*	19.30*	19.30*	29.96*	O/R	O/R	32.48*	7.06*
-169	3.69	11.62	21.27	31.36	20.08*	20.08*	30.64*	O/R	O/R	35.98	7.16*
-170	3.79	12.62	24.82	31.52*	20.80*	20.80*	31.32*	O/R	O/R	37.84*	5.35*
-171	4.73	7.57	25.97	31.74	23.38*	23.38*	33.16*	O/R	O/R	88.80	7.26*
-172	4.92	13.98	27.16	32.12*	24.42*	24.42*	34.54*	O/R	O/R	90.32*	7.26*
-173	5.26	8.03	26.20*	35.60*	25.20*	25.20*	35.68*	O/R	O/R	101.48*	7.30*
-174	5.78	15.04	27.77	37.56*	25.96*	25.96*	37.08*	O/R	O/R	103.52*	7.40*
-175	6.33	15.40*	28.86	39.56	26.76*	26.76*	38.22*	O/R	O/R	106.04*	7.48*
-176	6.83	16.14	30.75	40.74*	27.78*	27.78*	40.96*	O/R	O/R	107.82*	7.66*
-177	7.05	16.68	31.33*	41.28	28.82*	28.82*	42.10*	O/R	O/R	115.96*	8.74*
-178	7.38	9.04	32.86	41.60*	29.84*	29.84*	44.84*	O/R	O/R	118.76*	8.92*
-201	0.09	0.22	1.27*	2.44*	0.64*	0.64*	1.16*	O/R	O/R	3.66	O/R
-202	0.09	0.22	1.34	2.58	0.68*	0.68*	1.16	O/R	O/R	2.51	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (203....245)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-203	**-203**	5/16	9/16	1/8	0.296	.005	0.139	.004	0.021	7.520	.130	3.530	.100	2-203
2-204	**-204**	3/8	5/8	1/8	0.359		0.139		0.024	9.120		3.530		2-204
2-205	**-205**	7/16	11/16	1/8	0.421		0.139		0.027	10.690		3.530		2-205
2-206	**-206**	1/2	3/4	1/8	0.484		0.139		0.030	12.290		3.530		2-206
2-207	**-207**	9/16	13/16	1/8	0.546	.007	0.139		0.033	13.870	.180	3.530		2-207
2-208	**-208**	5/8	7/8	1/8	0.609	.009	0.139		0.036	15.470	.230	3.530		2-208
2-209	**-209**	11/16	15/16	1/8	0.671	.010	0.139		0.039	17.040		3.530		2-209
2-210	**-210**	3/4	1	1/8	0.734		0.139		0.042	18.640	.250	3.530		2-210
2-211	**-211**	13/16	1 1/16	1/8	0.796		0.139		0.045	20.220		3.530		2-211
2-212	**-212**	7/8	1 1/8	1/8	0.859		0.139		0.048	21.820		3.530		2-212
2-213	**-213**	15/16	1 3/16	1/8	0.921		0.139		0.051	23.390		3.530		2-213
2-214	**-214**	1	1 1/4	1/8	0.984		0.139		0.054	24.990		3.530		2-214
2-215	**-215**	1 1/16	1 5/16	1/8	1.046		0.139		0.057	26.570		3.530		2-215
2-216	**-216**	1 1/8	1 3/8	1/8	1.109	.012	0.139		0.060	28.170	.300	3.530		2-216
2-217	**-217**	1 3/16	1 7/16	1/8	1.171		0.139		0.062	29.740		3.530		2-217
2-218	**-218**	1 1/4	1 1/2	1/8	1.234		0.139		0.065	31.340		3.530		2-218
2-219	**-219**	1 5/16	1 9/16	1/8	1.296		0.139		0.068	32.920		3.530		2-219
2-220	**-220**	1 3/8	1 5/8	1/8	1.359		0.139		0.071	34.520		3.530		2-220
2-221	**-221**	1 7/16	1 11/16	1/8	1.421		0.139		0.074	36.090		3.530		2-221
2-222	**-222**	1 1/2	1 3/4	1/8	1.484	.015	0.139		0.077	37.690	.380	3.530		2-222
2-223	**-223**	1 5/8	1 7/8	1/8	1.609		0.139		0.083	40.870		3.530		2-223
2-224	**-224**	1 3/4	2	1/8	1.734		0.139		0.089	44.040		3.530		2-224
2-225	**-225**	1 7/8	2 1/8	1/8	1.859	.018	0.139		0.095	47.220	.460	3.530		2-225
2-226	**-226**	2	2 1/4	1/8	1.984		0.139		0.101	50.390		3.530		2-226
2-227	**-227**	2 1/8	2 3/8	1/8	2.109		0.139		0.107	53.570		3.530		2-227
2-228	**-228**	2 1/4	2 1/2	1/8	2.234	.020	0.139		0.113	56.740	.510	3.530		2-228
2-229	**-229**	2 3/8	2 5/8	1/8	2.359		0.139		0.119	59.920		3.530		2-229
2-230	**-230**	2 1/2	2 3/4	1/8	2.484		0.139		0.125	63.090		3.530		2-230
2-231	**-231**	2 5/8	2 7/8	1/8	2.609		0.139		0.131	66.270		3.530		2-231
2-232	**-232**	2 3/4	3	1/8	2.734	.024	0.139		0.137	69.440	.610	3.530		2-232
2-233	**-233**	2 7/8	3 1/8	1/8	2.859		0.139		0.143	72.620		3.530		2-233
2-234	**-234**	3	3 1/4	1/8	2.984		0.139		0.149	75.790		3.530		2-234
2-235	**-235**	3 1/8	3 3/8	1/8	3.109		0.139		0.155	78.970		3.530		2-235
2-236	**-236**	3 1/4	3 1/2	1/8	3.234		0.139		0.161	82.140		3.530		2-236
2-237	**-237**	3 3/8	3 5/8	1/8	3.359		0.139		0.167	85.320		3.530		2-237
2-238	**-238**	3 1/2	3 3/4	1/8	3.484		0.139		0.173	88.490		3.530		2-238
2-239	**-239**	3 5/8	3 7/8	1/8	3.609	.028	0.139		0.179	91.670	.710	3.530		2-239
2-240	**-240**	3 3/4	4	1/8	3.734		0.139		0.185	94.840		3.530		2-240
2-241	**-241**	3 7/8	4 1/8	1/8	3.859		0.139		0.191	98.020		3.530		2-241
2-242	**-242**	4	4 1/4	1/8	3.984		0.139		0.197	101.190		3.530		2-242
2-243	**-243**	4 1/8	4 3/8	1/8	4.109		0.139		0.203	104.370		3.530		2-243
2-244	**-244**	4 1/4	4 1/2	1/8	4.234	.030	0.139		0.209	107.540	.760	3.530		2-244
2-245	**-245**	4 3/8	4 5/8	1/8	4.359		0.139		0.214	110.720		3.530		2-245

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-203	0.11	0.22	1.41	2.66*	0.72*	0.72*	1.24*	7.90*	O/R	3.96*	1.46*
-204	0.11	0.22	1.44	2.82	0.72*	0.72*	1.26*	10.72*	O/R	2.55	1.46*
-205	0.11	0.22	1.44	2.90*	0.72*	0.72*	1.30*	10.60*	O/R	2.55	1.46
-206	0.16	0.36	1.47	3.38	0.90	0.90*	1.36	6.33*	3.14*	2.55	0.66
-207	0.16	0.36	1.59	3.46	0.94*	0.94*	1.38*	10.58*	3.14*	2.55	0.92
-208	0.17	0.42	1.59	3.58	0.96*	0.96*	1.58*	10.58*	5.28*	2.55	0.92
-209	0.17	0.42	1.71	3.72*	1.02*	1.02*	1.66*	10.58	4.36*	2.55	0.66
-210	0.17	0.45	1.80	3.98	1.59	1.12*	1.46	8.13	6.06	2.55	0.66*
-211	0.20	0.45	1.98	4.26	1.16*	1.16*	1.47*	8.13	7.24*	2.55	0.71*
-212	0.20	0.48	2.08	4.86	1.74	1.28*	1.76*	4.43	11.64*	2.55	0.94*
-213	0.20	0.49	2.31	5.08	1.32	1.32*	1.90*	8.28	7.54	2.57	0.71*
-214	0.26	0.49	2.51	3.92	1.93	1.38*	2.06	12.52	7.54	2.78	0.71
-215	0.29	0.56	2.65	6.54	1.99*	1.54*	2.31*	13.04	7.77	2.78	0.71
-216	0.29	0.56	2.81	7.04*	1.66*	1.66*	2.31*	8.78	5.98	3.05	0.71
-217	0.33	0.59	2.81	7.10*	1.80*	1.80*	2.90*	13.22	6.98*	3.05	0.89
-218	0.33	0.65	3.03	5.57	2.15	1.88*	2.51	8.78	11.75	3.05	0.86
-219	0.33	0.68	3.23	7.62	2.00*	2.00*	2.55	10.48	11.75	3.05	1.06
-220	0.36	0.76	3.40	7.96	2.28	2.10*	2.64*	15.27	13.06	3.40	0.86
-221	0.38	0.76	3.52	8.26	2.14*	2.14*	3.42	11.13	11.46	3.40	0.92
-222	0.42	0.85	3.75	8.44	2.36	2.40*	3.23	11.13	11.36	3.40	0.92
-223	0.48	0.98	3.97	5.84	2.64*	2.64*	3.33*	16.25	16.47	4.06	0.92
-224	0.86	1.04	4.38	7.94	2.88	2.88*	3.55	16.25	16.47	4.06	0.92
-225	0.53	1.07	4.74	10.28	3.04	3.04*	4.32	17.39	17.35	4.06	0.92
-226	0.62	1.10	5.32	9.91	3.50	3.50*	3.74	17.39	17.35	4.06	0.96
-227	0.62	1.24	5.64	9.91	3.72*	3.72*	3.87	17.39	13.88*	4.06	0.96
-228	0.66	1.28	5.85	11.14	4.10	4.10*	3.99*	17.39	19.19	4.59	1.28
-229	0.76	1.34	6.22	11.56	4.40*	4.40*	4.82	25.50	19.19	4.59	0.96
-230	0.81	1.41	6.52	12.06*	4.56	4.56*	5.44*	17.81	14.06	4.74	0.96
-231	0.85	1.47	6.89	12.94	4.78	4.78	4.84*	34.78*	19.61*	4.74	0.96
-232	0.85	1.66	7.09	4.25	5.22	5.22*	5.00*	18.78	20.58	4.74	0.96
-233	0.89	1.69	7.47	9.54	5.32*	5.32*	5.88*	18.78	15.16*	4.74	0.99
-234	0.95	1.69	7.94	14.54	5.46*	5.46*	6.08	18.78	21.43*	4.74*	1.00
-235	1.00	1.92	8.31	15.70	5.86*	5.86*	6.08*	22.93*	22.12*	4.74	1.10
-236	1.05	1.98	8.67	15.88	6.00*	6.00*	6.88	23.48	22.35	4.74	1.14
-237	1.05	2.05	9.03	16.12	6.12*	6.12*	6.38*	41.04*	16.62	4.74	1.23
-238	1.11	2.08	9.42	16.64	3.92	6.12*	5.85*	29.13	17.72*	8.30	1.23
-239	1.11	2.28	9.71	10.09	6.74*	6.74*	6.79	48.76	17.32*	8.30	1.37
-240	1.15	2.28	9.95	14.97	6.82	6.82*	6.95*	29.13	24.44	8.30	1.39
-241	1.17	2.34	10.50	18.42	6.86*	6.86*	9.04	52.38	19.20*	8.30	1.39
-242	1.27	2.42	10.60	18.64	6.96*	6.96*	10.72	34.84	26.70*	8.30	1.39
-243	1.37	2.57	11.25	14.09*	7.38*	7.38*	10.72*	56.30*	29.76*	8.48	1.46
-244	1.41	2.68	11.74	20.46	3.44*	7.40*	10.72*	52.85	30.06*	8.48	1.46
-245	1.57	3.00	11.94	21.18	7.50*	7.50*	10.72*	60.50	30.54*	8.48*	1.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (246....312)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-246	**-246**	4 1/2	4 3/4	1/8	4.484	.030	0.139	.004	0.220	113.890	.760	3.530	.100	2-246
2-247	**-247**	4 5/8	4 7/8	1/8	4.609		0.139		0.226	117.070		3.530		2-247
2-248	**-248**	4 3/4	5	1/8	4.734		0.139		0.232	120.240		3.530		2-248
2-249	**-249**	4 7/8	5 1/8	1/8	4.859	.035	0.139		0.238	123.420	.890	3.530		2-249
2-250	**-250**	5	5 1/4	1/8	4.984		0.139		0.244	126.590		3.530		2-250
2-251	**-251**	5 1/8	5 3/8	1/8	5.109		0.139		0.250	129.770		3.530		2-251
2-252	**-252**	5 1/4	5 1/2	1/8	5.234		0.139		0.256	132.940		3.530		2-252
2-253	**-253**	5 3/8	5 5/8	1/8	5.359		0.139		0.262	136.120		3.530		2-253
2-254	**-254**	5 1/2	5 3/4	1/8	5.484		0.139		0.268	139.290		3.530		2-254
2-255	**-255**	5 5/8	5 7/8	1/8	5.609		0.139		0.274	142.470		3.530		2-255
2-256	**-256**	5 3/4	6	1/8	5.734		0.139		0.280	145.640		3.530		2-256
2-257	**-257**	5 7/8	6 1/8	1/8	5.859		0.139		0.286	148.820		3.530		2-257
2-258	**-258**	6	6 1/4	1/8	5.984		0.139		0.292	151.990		3.530		2-258
2-259	**-259**	6 1/4	6 1/2	1/8	6.234	.040	0.139		0.304	158.340	1.02	3.530		2-259
2-260	**-260**	6 1/2	6 3/4	1/8	6.484		0.139		0.316	164.690		3.530		2-260
2-261	**-261**	6 3/4	7	1/8	6.734		0.139		0.328	171.040		3.530		2-261
2-262	**-262**	7	7 1/4	1/8	6.984		0.139		0.340	177.390		3.530		2-262
2-263	**-263**	7 1/4	7 1/2	1/8	7.234	.045	0.139		0.352	183.740	1.14	3.530		2-263
2-264	**-264**	7 1/2	7 3/4	1/8	7.484		0.139		0.363	190.090		3.530		2-264
2-265	**-265**	7 3/4	8	1/8	7.734		0.139		0.375	196.400		3.530		2-265
2-266	**-266**	8	8 1/4	1/8	7.984		0.139		0.387	202.790		3.530		2-266
2-267	**-267**	8 1/4	8 1/2	1/8	8.234	.050	0.139		0.399	209.140	1.27	3.530		2-267
2-268	**-268**	8 1/2	8 3/4	1/8	8.484		0.139		0.411	215.490		3.530		2-268
2-269	**-269**	8 3/4	9	1/8	8.734		0.139		0.423	221.840		3.530		2-269
2-270	**-270**	9	9 1/4	1/8	8.984		0.139		0.435	228.190		3.530		2-270
2-271	**-271**	9 1/4	9 1/2	1/8	9.234	.055	0.139		0.447	234.540	1.40	3.530		2-271
2-272	**-272**	9 1/2	9 3/4	1/8	9.484		0.139		0.459	240.890		3.530		2-272
2-273	**-273**	9 3/4	10	1/8	9.734		0.139		0.471	247.240		3.530		2-273
2-274	**-274**	10	10 1/4	1/8	9.984		0.139		0.483	253.590		3.530		2-274
2-275	**-275**	10 1/2	10 3/4	1/8	10.484		0.139		0.506	266.290		3.530		2-275
2-276	**-276**	11	11 1/4	1/8	10.984	.065	0.139		0.530	278.990	1.65	3.530		2-276
2-277	**-277**	11 1/2	11 3/4	1/8	11.484		0.139		0.554	291.690		3.530		2-277
2-278	**-278**	12	12 1/4	1/8	11.984		0.139		0.578	304.390		3.530		2-278
2-279	**-279**	13	13 1/4	1/8	12.984		0.139		0.626	329.790		3.530		2-279
2-280	**-280**	14	14 1/4	1/8	13.984		0.139		0.673	355.190		3.530		2-280
2-281	**-281**	15	15 1/4	1/8	14.984		0.139		0.721	380.590		3.530		2-281
2-282	**-282**	16	16 1/4	1/8	15.955	.075	0.139		0.767	405.260	1.91	3.530		2-282
2-283	**-283**	17	17 1/4	1/8	16.955	.080	0.139		0.815	430.660	2.03	3.530		2-283
2-284	**-284**	18	18 1/4	1/8	17.955	.085	0.139		0.863	456.060	2.16	3.530		2-284
2-309	**-309**	7/16	13/16	3/16	0.412	.005	0.210	.005	0.068	10.460	.130	5.330	.130	2-309
2-310	**-310**	1/2	7/8	3/16	0.475		0.210		0.075	12.070		5.330		2-310
2-311	**-311**	9/16	15/16	3/16	0.537	.007	0.210		0.081	13.640	.180	5.330		2-311
2-312	**-312**	5/8	1	3/16	0.600	.009	0.210		0.088	15.240	.230	5.330		2-312

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (246....312)

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-246	1.80	3.49	12.46	13.21	8.48*	8.48*	11.38*	62.70	33.20*	8.48	2.06
-247	1.85	3.69	12.66	13.60	9.00*	9.00*	11.38*	63.04	31.98	8.48	2.61
-248	1.90	3.70	12.91	21.40	4.77*	9.50*	10.60	56.64	45.67*	8.92	2.64
-249	2.02	3.70	13.25	21.86	9.80*	9.80*	15.54*	63.50	33.22*	8.92*	2.78
-250	2.02	3.87	14.03	22.28	10.28*	10.28*	17.22*	65.84	36.70*	8.92*	2.94
-251	2.08	3.91	14.67	22.74	10.78	10.78*	17.36*	68.24*	34.58*	8.92	3.00
-252	2.08	4.33	15.63	7.68*	11.44*	11.44*	17.38	70.76*	37.42*	12.62	3.27
-253	2.22	4.54	15.88	23.44*	12.02*	12.02*	18.74*	73.38*	48.66*	30.23*	O/R
-254	2.44	4.92	16.45	16.31*	12.50*	12.50*	18.74*	25.68	28.50	13.79	3.38
-255	2.54	4.93	17.16	25.44	12.98*	12.98*	18.74*	78.84	50.22*	14.88	3.45*
-256	2.64	5.29	17.75	28.50	13.98*	13.98*	18.74*	46.36	60.52*	14.88	7.88
-257	2.71	6.07	18.26	29.22*	14.10*	14.10*	18.74*	82.70*	68.06*	17.03*	3.78
-258	2.84	6.16	18.82	29.68	14.78*	14.78*	2.25*	87.84	100.5*	17.03	4.04
-259	3.16	6.29	19.16	30.86	15.00*	15.00*	18.74	98.92	76.52*	17.64	4.35
-260	3.16	6.58	19.48	20.07	15.46*	15.46*	23.14*	98.61*	74.40*	16.31	4.50*
-261	3.38	6.79	20.09	32.30	16.80*	16.80*	27.72*	121.84	76.10*	20.62	4.50
-262	3.48	7.45	21.27	34.18	17.44*	17.44*	28.12*	130.94	77.80*	31.26*	4.56
-263	3.79	8.03	23.40	35.60	17.98*	17.98*	28.76*	140.72*	84.12*	20.62	4.83*
-264	3.88	8.52	26.52	22.55	20.16*	20.16*	34.66*	144.36	80.52*	31.26	4.88
-265	4.25	8.97	28.31	49.94	21.20*	21.20*	8.81	155.14	88.62*	20.62	5.90*
-266	4.33	9.17	29.51	51.84	21.74*	21.74*	36.12*	162.72*	93.64*	22.38	5.34
-267	4.41	10.38	30.96	52.32*	23.82*	23.82*	37.46	168.42	97.14*	36.44	5.64*
-268	4.84	10.68	32.10	49.88	24.50*	24.50*	38.40*	174.14*	108.28*	34.17	5.64*
-269	5.26	11.32	33.27	51.52*	25.48*	25.48*	39.62	179.86*	103.68*	69.26	12.37*
-270	6.05	11.88	34.54	52.70	26.44*	26.44*	39.98*	185.54*	106.86*	85.22	8.36
-271	5.26	12.42	35.78	54.14	27.72*	27.72*	42.84*	191.30*	110.40*	85.22	26.48*
-272	5.26	12.89	36.96	44.99*	28.94*	28.94*	44.02*	196.98*	112.36*	85.22*	7.98
-273	5.26	13.30	37.34	61.12	29.90*	29.90*	46.88*	202.70*	161.71*	90.42	8.14
-274	5.26	13.71	39.51	64.92	30.96*	30.96*	48.08*	208.42*	119.58*	93.94*	15.65
-275	5.78	13.45	41.01	65.86	34.04*	34.04*	49.26*	219.84*	123.18*	98.06*	18.16
-276	6.33	13.56	41.56	66.82	50.20*	50.20*	62.02*	220.24*	127.38*	106.06*	18.16
-277	6.33	13.83	42.94	49.16*	50.68*	50.68*	71.96*	231.14*	136.56*	109.02	18.16*
-278	6.83	13.97	44.18	69.68*	51.32*	51.32*	72.32*	242.04	140.56*	59.64	44.59*
-279	8.42	14.25	46.38	73.22	66.94*	66.94*	129.04*	263.80*	194.78*	117.70	O/R
-280	10.34	14.42	47.20	80.36*	69.94*	69.94*	130.20*	285.56*	195.92*	125.96*	O/R
-281	12.13	14.63	50.75	88.66	70.34*	70.34*	131.36*	252.24*	255.90*	136.64*	O/R
-282	13.17	15.04	54.31*	93.40*	70.62*	70.62*	132.46*	O/R	O/R	138.88*	O/R
-283	14.75	34.80*	O/R	100.08*	77.12*	77.12*	133.58*	O/R	O/R	142.62	O/R
-284	16.83	15.45	61.87*	102.44*	79.4*	79.4*	141.60*	O/R	O/R	147.14	O/R
-309	0.26	0.40*	4.21	9.32*	1.02*	1.02*	2.14*	O/R	O/R	O/R	1.16
-310	0.29	0.55	4.41	10.34*	1.18	1.18*	2.22*	O/R	O/R	5.98*	4.46
-311	0.29	0.60	4.77	11.30*	1.26*	1.26*	2.42*	O/R	O/R	6.06	1.16
-312	0.36	0.59	4.95	11.94*	1.30*	1.30*	2.42*	O/R	O/R	6.12	1.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (313....355)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-313	**-313**	11/16	1 1/16	3/16	0.662	.009	0.210	.005	0.095	16.810	.230	5.330	.130	2-313
2-314	**-314**	3/4	1 1/8	3/16	0.725	.010	0.210		0.102	18.420	.250	5.330		2-314
2-315	**-315**	13/16	1 3/16	3/16	0.787		0.210		0.109	19.990		5.330		2-315
2-316	**-316**	7/8	1 1/4	3/16	0.850		0.210		0.115	21.590		5.330		2-316
2-317	**-317**	15/16	1 5/16	3/16	0.912		0.210		0.122	23.160		5.330		2-317
2-318	**-318**	1	1 3/8	3/16	0.975		0.210		0.129	24.770		5.330		2-318
2-319	**-319**	1 1/16	1 7/16	3/16	1.037		0.210		0.136	26.340		5.330		2-319
2-320	**-320**	1 1/8	1 1/2	3/16	1.100	.012	0.210		0.143	27.940	.300	5.330		2-320
2-321	**-321**	1 3/16	1 9/16	3/16	1.162		0.210		0.149	29.510		5.330		2-321
2-322	**-322**	1 1/4	1 5/8	3/16	1.225		0.210		0.156	31.120		5.330		2-322
2-323	**-323**	1 5/16	1 11/16	3/16	1.287		0.210		0.163	32.690		5.330		2-323
2-324	**-324**	1 3/8	1 3/4	3/16	1.350		0.210		0.170	34.290		5.330		2-324
2-325	**-325**	1 1/2	1 7/8	3/16	1.475	.015	0.210		0.183	37.470	.380	5.330		2-325
2-326	**-326**	1 5/8	2	3/16	1.600		0.210		0.197	40.640		5.330		2-326
2-327	**-327**	1 3/4	2 1/8	3/16	1.725		0.210		0.211	43.820		5.330		2-327
2-328	**-328**	1 7/8	2 1/4	3/16	1.850		0.210		0.224	46.990		5.330		2-328
2-329	**-329**	2	2 3/8	3/16	1.975	.018	0.210		0.238	50.170	.460	5.330		2-329
2-330	**-330**	2 1/8	2 1/2	3/16	2.100		0.210		0.251	53.340		5.330		2-330
2-331	**-331**	2 1/4	2 5/8	3/16	2.225		0.210		0.265	56.520		5.330		2-331
2-332	**-332**	2 3/8	2 3/4	3/16	2.350		0.210		0.279	59.690		5.330		2-332
2-333	**-333**	2 1/2	2 7/8	3/16	2.475	.020	0.210		0.292	62.870	.510	5.330		2-333
2-334	**-334**	2 5/8	3	3/16	2.600		0.210		0.306	66.040		5.330		2-334
2-335	**-335**	2 3/4	3 1/8	3/16	2.725		0.210		0.319	69.220		5.330		2-335
2-336	**-336**	2 7/8	3 1/4	3/16	2.850		0.210		0.333	72.390		5.330		2-336
2-337	**-337**	3	3 3/8	3/16	2.975	.024	0.210		0.347	75.570	.610	5.330		2-337
2-338	**-338**	3 1/8	3 1/2	3/16	3.100		0.210		0.360	78.740		5.330		2-338
2-339	**-339**	3 1/4	3 5/8	3/16	3.225		0.210		0.374	81.920		5.330		2-339
2-340	**-340**	3 3/8	3 3/4	3/16	3.350		0.210		0.387	85.090		5.330		2-340
2-341	**-341**	3 1/2	3 7/8	3/16	3.475		0.210		0.401	88.270		5.330		2-341
2-342	**-342**	3 5/8	4	3/16	3.600	.028	0.210		0.415	91.440	.710	5.330		2-342
2-343	**-343**	3 3/4	4 1/8	3/16	3.725		0.210		0.428	94.620		5.330		2-343
2-344	**-344**	3 7/8	4 1/4	3/16	3.850		0.210		0.442	97.790		5.330		2-344
2-345	**-345**	4	4 3/8	3/16	3.975		0.210		0.455	100.970		5.330		2-345
2-346	**-346**	4 1/8	4 1/2	3/16	4.100		0.210		0.469	104.140		5.330		2-346
2-347	**-347**	4 1/4	4 5/8	3/16	4.225	.030	0.210		0.483	107.320	.760	5.330		2-347
2-348	**-348**	4 3/8	4 3/4	3/16	4.350		0.210		0.496	110.490		5.330		2-348
2-349	**-349**	4 1/2	4 7/8	3/16	4.475		0.210		0.510	113.670		5.330		2-349
2-350	**-350**	4 5/8	5	3/16	4.600		0.210		0.523	116.840		5.330		2-350
2-351	**-351**	4 3/4	5 1/8	3/16	4.725		0.210		0.537	120.020		5.330		2-351
2-352	**-352**	4 7/8	5 1/4	3/16	4.850		0.210		0.551	123.190		5.330		2-352
2-353	**-353**	5	5 3/8	3/16	4.975	.037	0.210		0.564	126.370	.940	5.330		2-353
2-354	**-354**	5 1/8	5 1/2	3/16	5.100		0.210		0.578	129.540		5.330		2-354
2-355	**-355**	5 1/4	5 5/8	3/16	5.225		0.210		0.591	132.720		5.330		2-355

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-313	0.36	0.65	5.09	12.50*	1.36*	1.36*	2.86*	O/R	O/R	6.32*	1.16*
-314	0.36	0.68	5.29	13.06*	1.46*	1.46*	3.26*	O/R	O/R	3.62	1.18*
-315	0.38	0.68	5.51	13.16*	1.52*	1.52*	3.26*	O/R	6.98*	6.60	1.24*
-316	0.38	0.76	5.19	13.62*	1.60*	1.60*	3.26*	O/R	O/R	3.66*	1.24
-317	0.38	0.76	5.58	13.84*	1.62*	1.62*	3.26	O/R	O/R	6.90*	2.90*
-318	0.38	0.79*	5.65	14.10*	1.76*	1.76*	3.26*	15.46*	O/R	3.66	1.24
-319	0.45	0.81	5.83	14.54*	1.88*	1.88*	3.26*	15.84*	O/R	7.48	1.24
-320	0.48	0.85	6.00	15.02*	1.98*	1.98*	2.74*	15.84*	8.38*	4.03	1.35
-321	0.48	1.00	6.05	15.44*	2.06*	2.06*	4.22*	15.84*	10.02*	4.03*	1.28
-322	0.48	1.00	6.05	15.88*	2.38*	2.38*	4.22*	15.84*	10.82*	4.14	1.34
-323	0.48	1.10	6.75	16.10*	2.38*	2.38*	4.22*	15.84*	12.68*	4.14*	1.80*
-324	0.48	1.10	7.09	16.58*	2.44*	2.44*	4.22*	15.84*	14.16*	4.14*	1.56
-325	0.53	1.10	7.63	17.34	2.58*	2.58*	3.55*	23.34*	15.66*	4.46	1.56
-326	0.53	1.10	8.09	17.56	2.78*	2.78*	3.79*	8.57	22.86*	4.46	1.56
-327	0.66	1.17	8.31	18.04	2.55*	2.94*	4.96*	12.73	22.86*	4.46	1.00
-328	0.76	1.24	8.87	18.78	3.26*	3.26	5.36	13.73	19.32*	5.00	1.56
-329	0.81	1.47	10.14	20.18	3.80*	3.80*	4.60	24.70	17.60	5.00	1.56
-330	0.89	1.57	11.02	21.14	4.02*	4.02*	5.66*	15.96	19.62*	5.00	1.78
-331	0.95	1.66	11.25	22.06	4.34*	4.34*	6.28*	18.29*	19.62*	5.15*	1.78
-332	1.05	1.79	12.71	22.78	4.64	4.64*	4.72	18.29	29.12*	5.15	1.78
-333	1.15	1.98	13.25	23.96	4.90	4.90*	6.28	38.20*	29.12*	5.65	1.78
-334	1.17	2.05	13.89	15.73*	5.18*	5.18*	5.19	38.98	29.42*	5.65	2.06
-335	1.27	2.24	14.67	26.12	5.70*	5.70*	7.06*	30.04	31.90*	6.17	2.06
-336	1.37	10.27	15.73	27.76*	5.94*	5.94*	7.06*	34.97*	30.60*	6.17	2.06
-337	1.41	2.42	16.61	28.96*	6.12	6.12	10.68	35.63*	30.88*	6.44	2.06
-338	1.41	2.65	17.51	30.38	6.52*	6.52*	11.42*	56.76	31.32*	6.44	2.21
-339	1.57	2.81	18.69	32.08*	6.94*	6.94*	11.86*	59.58*	32.36*	6.44*	2.21
-340	1.71	2.88	19.60	5.61*	7.06*	7.06*	12.48	62.52	29.46*	8.77	2.21
-341	1.71	3.03	20.09	33.72	7.94*	7.94*	14.60	65.62	33.20*	9.30	2.21
-342	1.85	3.19	20.79	34.16	8.14	8.14*	14.78*	68.86	40.52*	9.80	2.36
-343	1.90	3.23	21.18	34.70*	8.32*	8.32*	14.96	72.30	37.24*	9.80	2.36
-344	1.90	3.27	21.90	35.62*	8.88*	8.88*	15.86*	75.88*	38.22*	11.23	2.36
-345	2.08	3.43	22.39	36.54	9.00*	9.00*	17.10	79.64	40.00*	12.90	2.36
-346	2.08	3.45	23.40	37.26*	9.14*	9.14*	17.28*	83.58*	37.90*	14.90	2.61
-347	2.08	3.74	23.53	37.74	9.32*	9.32*	17.40	87.74*	40.00*	14.90*	2.78
-348	2.08	4.13	24.11	37.98*	9.44*	9.44*	17.56*	35.13	43.54*	14.90	2.78
-349	2.32	4.15	24.82	38.46	9.54*	9.54*	17.74*	96.66*	40.42*	14.90	2.78
-350	2.44	4.31	25.45	39.16	11.02	11.02*	19.20*	100.18	O/R	14.90	3.59
-351	2.44	4.54	26.58	41.06	11.14*	11.14*	21.26*	106.48*	O/R	18.28*	3.10*
-352	2.54	4.67	26.01	42.76*	2.29*	11.26*	22.04*	O/R	O/R	18.28	3.10
-353	2.64	4.90	27.77	43.94*	11.26*	11.26*	22.80*	O/R	O/R	18.28*	3.70
-354	2.84	4.93	27.83	45.12*	11.26*	11.26*	24.10*	97.30	O/R	24.04*	3.70*
-355	3.16	5.34	28.12	47.02*	13.24*	13.24*	24.82*	O/R	O/R	24.04*	3.70

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (356....402)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-356	**-356**	5 3/8	5 3/4	3/16	5.350	.037	0.210	.005	0.605	135.890	.940	5.330	.130	2-356
2-357	**-357**	5 1/2	5 7/8	3/16	5.475		0.210		0.619	139.070		5.330		2-357
2-358	**-358**	5 5/8	6	3/16	5.600		0.210		0.632	142.240		5.330		2-358
2-359	**-359**	5 3/4	6 1/8	3/16	5.725		0.210		0.646	145.420		5.330		2-359
2-360	**-360**	5 7/8	6 1/4	3/16	5.850		0.210		0.659	148.590		5.330		2-360
2-361	**-361**	6	6 3/8	3/16	5.975		0.210		0.673	151.770		5.330		2-361
2-362	**-362**	6 1/4	6 5/8	3/16	6.225	.040	0.210		0.700	158.120	1.02	5.330		2-362
2-363	**-363**	6 1/2	6 7/8	3/16	6.475		0.210		0.727	164.470		5.330		2-363
2-364	**-364**	6 3/4	7 1/8	3/16	6.725		0.210		0.755	170.820		5.330		2-364
2-365	**-365**	7	7 3/8	3/16	6.975		0.210		0.782	177.170		5.330		2-365
2-366	**-366**	7 1/4	7 5/8	3/16	7.225	.045	0.210		0.809	183.520	1.14	5.330		2-366
2-367	**-367**	7 1/2	7 7/8	3/16	7.475		0.210		0.836	189.870		5.330		2-367
2-368	**-368**	7 3/4	8 1/8	3/16	7.725		0.210		0.863	196.220		5.330		2-368
2-369	**-369**	8	8 3/8	3/16	7.975		0.210		0.891	202.570		5.330		2-369
2-370	**-370**	8 1/4	8 5/8	3/16	8.225	.050	0.210		0.918	208.920	1.27	5.330		2-370
2-371	**-371**	8 1/2	8 7/8	3/16	8.475		0.210		0.945	215.270		5.330		2-371
2-372	**-372**	8 3/4	9 1/8	3/16	8.725		0.210		0.972	221.620		5.330		2-372
2-373	**-373**	9	9 3/8	3/16	8.975		0.210		0.999	227.970		5.330		2-373
2-374	**-374**	9 1/4	9 5/8	3/16	9.225	.055	0.210		1.027	234.320	1.40	5.330		2-374
2-375	**-375**	9 1/2	9 7/8	3/16	9.475		0.210		1.054	240.670		5.330		2-375
2-376	**-376**	9 3/4	10 1/8	3/16	9.725		0.210		1.081	247.020		5.330		2-376
2-377	**-377**	10	10 3/8	3/16	9.975		0.210		1.108	253.370		5.330		2-377
2-378	**-378**	10 1/2	10 7/8	3/16	10.475	.060	0.210		1.163	266.070	1.52	5.330		2-378
2-379	**-379**	11	11 3/8	3/16	10.975		0.210		1.217	278.770		5.330		2-379
2-380	**-380**	11 1/2	11 7/8	3/16	11.475	.065	0.210		1.272	291.470	1.65	5.330		2-380
2-381	**-381**	12	12 3/8	3/16	11.975		0.210		1.326	304.170		5.330		2-381
2-382	**-382**	13	13 3/8	3/16	12.975		0.210		1.435	329.570		5.330		2-382
2-383	**-383**	14	14 3/8	3/16	13.975	.070	0.210		1.544	354.970	1.78	5.330		2-383
2-384	**-384**	15	15 3/8	3/16	14.975		0.210		1.652	380.370		5.330		2-384
2-385	**-385**	16	16 3/8	3/16	15.955	.075	0.210		1.759	405.260	1.91	5.330		2-385
2-386	**-386**	17	17 3/8	3/16	16.955	.080	0.210		1.868	430.660	2.03	5.330		2-386
2-387	**-387**	18	18 3/8	3/16	17.955	.085	0.210		1.977	456.060	2.16	5.330		2-387
2-388	**-388**	19	19 3/8	3/16	18.955	.090	0.210		2.085	481.410	2.29	5.330		2-388
2-389	**-389**	20	20 3/8	3/16	19.955	.095	0.210		2.194	506.810	2.41	5.330		2-389
2-390	**-390**	21	21 3/8	3/16	20.955		0.210		2.303	532.210		5.330		2-390
2-391	**-391**	22	22 3/8	3/16	21.955	.100	0.210		2.412	557.610	2.54	5.330		2-391
2-392	**-392**	23	23 3/8	3/16	22.940	.105	0.210		2.519	582.680	2.67	5.330		2-392
2-393	**-393**	24	24 3/8	3/16	23.940	.110	0.210		2.628	608.080	2.79	5.330		2-393
2-394	**-394**	25	25 3/8	3/16	24.940	.115	0.210		2.737	633.480	2.92	5.330		2-394
2-395	**-395**	26	26 3/8	3/16	25.940	.120	0.210		2.845	658.880	3.05	5.330		2-395
2-400	**-400**	1 3/8	1 7/8	1/4	1.350	.012	0.275	.006	0.301	34.290	.305	6.985	.152	2-400
2-401	**-401**	1 1/2	2	1/4	1.475	.015	0.275		0.324	37.465	.381	6.985		2-401
2-402	**-402**	1 5/8	2 1/8	1/4	1.600		0.275		0.348	40.640		6.985		2-402

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-356	3.16	5.71	31.33*	47.50	13.34*	13.34*	24.02*	O/R	O/R	24.04	4.08
-357	3.26	5.74	32.49	47.72*	13.50*	13.50*	24.50*	O/R	O/R	26.12	3.70
-358	3.48	6.19	33.68	47.94	13.58*	13.58*	24.94*	100.76*	O/R	26.12	3.70*
-359	3.48	6.26	15.50	48.64*	13.68*	13.68*	25.44*	O/R	O/R	40.56	4.82
-360	3.69	6.39	38.72	49.64	13.82*	13.82*	26.14*	O/R	O/R	40.54	5.00*
-361	3.79	6.60	41.40	52.26	13.92*	13.92*	27.04*	97.44*	O/R	26.73	5.14
-362	3.88	6.75	43.32	55.36*	17.76*	17.76*	28.18*	O/R	O/R	27.26	5.42*
-363	4.06	6.99	43.49	43.71*	18.00*	18.00*	29.12*	O/R	O/R	27.26	5.88*
-364	4.25	7.23	43.64	43.96*	19.70*	19.70*	31.50*	O/R	O/R	45.58	5.88
-365	4.41	8.35	44.88	60.56	21.78*	21.78*	33.72*	O/R	O/R	31.98	5.90
-366	4.41	8.41	49.55	62.20*	22.06*	22.06*	33.96*	O/R	O/R	40.50	18.93
-367	4.41	8.44	53.22	64.10*	22.28*	22.28*	16.15*	O/R	O/R	40.50	12.48
-368	4.41	9.04	55.43	65.30*	22.50*	22.50*	37.42*	O/R	O/R	41.27*	8.06
-369	4.92	9.95	56.93*	68.84*	22.74*	22.74*	38.58*	O/R	O/R	42.43	36.46
-370	5.45	10.08	57.75	70.04*	23.08*	23.08*	39.52*	101.42*	O/R	62.12	6.98
-371	5.70	10.21	60.93	71.24*	23.32*	23.32*	40.90*	O/R	O/R	91.12*	7.06*
-372	5.78	10.38	O/R	72.42*	23.62*	23.62*	41.58*	O/R	O/R	91.12	7.24*
-373	6.33	10.83	63.12	74.78*	23.84*	23.84*	42.28*	O/R	O/R	86.42	7.38*
-374	6.44	11.19	63.69	75.96*	24.70*	24.70*	42.76	O/R	O/R	54.10	7.50*
-375	6.53	11.57	67.86	78.32*	25.48*	25.48*	43.20*	O/R	O/R	82.08	7.64
-376	6.63	12.67	71.50*	79.50*	25.72*	25.72*	43.70*	O/R	O/R	95.64*	9.10
-377	6.63	13.07	74.48	83.12*	26.26*	26.26*	47.34*	O/R	O/R	91.10*	91.82*
-378	8.42	14.28	79.47*	92.62	44.48*	44.48*	71.46*	O/R	O/R	93.42*	O/R
-379	8.94	15.11	85.14	99.72*	48.34*	48.34*	72.90*	O/R	370.72*	94.22*	45.72
-380	9.16	15.31	88.44	111.60*	48.74*	48.74*	73.72*	O/R	O/R	96.74*	O/R
-381	9.50	16.11	92.97	113.96	49.46*	49.46*	74.98*	336.96*	O/R	98.92	O/R
-382	9.50	16.48	95.85	129.40*	64.08*	64.08*	118.66*	O/R	91.20*	106.24	O/R
-383	12.65	16.98	100.84*	144.82*	64.88*	64.88*	119.92*	O/R	O/R	116.58*	O/R
-384	12.65	17.17*	105.89*	147.20*	65.72*	65.72*	121.20*	O/R	O/R	118.34*	O/R
-385	14.75	17.64	111.15*	51.96*	66.80*	66.80*	122.38*	O/R	O/R	124.88	O/R
-386	15.80	18.48*	117.66*	163.84*	71.20*	71.20*	124.24*	O/R	O/R	133.58	O/R
-387	17.91	20.14*	O/R	166.18*	73.90*	73.90*	125.60*	O/R	O/R	114.04*	O/R
-388	18.43	24.14*	138.06*	168.6*	79.34*	79.34*	126.96*	O/R	O/R	145.04*	O/R
-389	18.43	25.58*	141.02	169.78*	84.76*	84.76*	129.36*	O/R	O/R	151.72*	O/R
-390	18.43	28.02*	144.10*	173.34*	91.54*	91.54*	130.30*	O/R	O/R	163.68*	O/R
-391	18.95	32.74*	O/R	194.68*	97.00*	97.00*	132.20*	O/R	O/R	O/R	O/R
-392	18.95	37.54*	154.49	206.54*	102.44*	102.44*	141.66*	O/R	O/R	O/R	O/R
-393	30.53	40.26*	159.29*	224.38*	108.16*	108.16*	151.16*	O/R	O/R	O/R	O/R
-394	30.56	45.32	O/R	229.14*	113.58*	113.58*	160.62*	O/R	O/R	O/R	O/R
-395	33.70	48.96*	O/R	242.18*	118.00*	118.00*	170.08*	O/R	O/R	O/R	O/R
-401	4.95	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-402	5.00	1.73*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-402	5.16	1.83*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (403....445)

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-403	**-403**	1 3/4	2 1/4	1/4	1.725	.015	0.275	.006	0.371	43.815	.381	6.985	.152	2-403
2-404	**-404**	1 7/8	2 3/8	1/4	1.850		0.275		0.394	46.990		6.985		2-404
2-405	**-405**	2	2 1/2	1/4	1.975	.018	0.275		0.417	50.165	.457	6.985		2-405
2-406	**-406**	2 1/8	2 5/8	1/4	2.100		0.275		0.441	53.340		6.985		2-406
2-407	**-407**	2 1/4	2 3/4	1/4	2.225		0.275		0.464	56.515		6.985		2-407
2-408	**-408**	2 3/8	2 7/8	1/4	2.350		0.275		0.487	59.690		6.985		2-408
2-409	**-409**	2 1/2	3	1/4	2.475	.020	0.275		0.511	62.865	.508	6.985		2-409
2-410	**-410**	2 5/8	3 1/8	1/4	2.600		0.275		0.534	66.040		6.985		2-410
2-411	**-411**	2 3/4	3 1/4	1/4	2.725		0.275		0.557	69.215		6.985		2-411
2-412	**-412**	2 7/8	3 3/8	1/4	2.850		0.275		0.581	72.390		6.985		2-412
2-413	**-413**	3	3 1/2	1/4	2.975	.024	0.275		0.604	75.565	.610	6.985		2-413
2-414	**-414**	3 1/8	3 5/8	1/4	3.100		0.275		0.627	78.740		6.985		2-414
2-415	**-415**	3 1/4	3 3/4	1/4	3.225		0.275		0.651	81.915		6.985		2-415
2-416	**-416**	3 3/8	3 7/8	1/4	3.350		0.275		0.674	85.090		6.985		2-416
2-417	**-417**	3 1/2	4	1/4	3.475		0.275		0.697	88.265		6.985		2-417
2-418	**-418**	3 5/8	4 1/8	1/4	3.600	.028	0.275		0.721	91.440	.711	6.985		2-418
2-419	**-419**	3 3/4	4 1/4	1/4	3.725		0.275		0.744	94.615		6.985		2-419
2-420	**-420**	3 7/8	4 3/8	1/4	3.850		0.275		0.767	97.790		6.985		2-420
2-421	**-421**	4	4 1/2	1/4	3.975		0.275		0.791	100.965		6.985		2-421
2-422	**-422**	4 1/8	4 5/8	1/4	4.100		0.275		0.814	104.140		6.985		2-422
2-423	**-423**	4 1/4	4 3/4	1/4	4.225	.030	0.275		0.837	107.315	.762	6.985		2-423
2-424	**-424**	4 3/8	4 7/8	1/4	4.350		0.275		0.861	110.490		6.985		2-424
2-425	**-425**	4 1/2	5	1/4	4.475	.033	0.275		0.886	113.670	.840	6.990	.150	2-425
2-426	**-426**	4 5/8	5 1/8	1/4	4.600		0.275		0.910	116.840		6.990		2-426
2-427	**-427**	4 3/4	5 1/4	1/4	4.725		0.275		0.933	120.020		6.990		2-427
2-428	**-428**	4 7/8	5 3/8	1/4	4.850		0.275		0.956	123.190		6.990		2-428
2-429	**-429**	5	5 1/2	1/4	4.975	.037	0.275		0.980	126.370	.940	6.990		2-429
2-430	**-430**	5 1/8	5 5/8	1/4	5.100		0.275		1.003	129.540		6.990		2-430
2-431	**-431**	5 1/4	5 3/4	1/4	5.225		0.275		1.026	132.720		6.990		2-431
2-432	**-432**	5 3/8	5 7/8	1/4	5.350		0.275		1.050	135.890		6.990		2-432
2-433	**-433**	5 1/2	6	1/4	5.475		0.275		1.073	139.070		6.990		2-433
2-434	**-434**	5 5/8	6 1/8	1/4	5.600		0.275		1.096	142.240		6.990		2-434
2-435	**-435**	5 3/4	6 1/4	1/4	5.725		0.275		1.120	145.420		6.990		2-435
2-436	**-436**	5 7/8	6 3/8	1/4	5.850		0.275		1.143	148.590		6.990		2-436
2-437	**-437**	6	6 1/2	1/4	5.975		0.275		1.166	151.770		6.990		2-437
2-438	**-438**	6 1/4	6 3/4	1/4	6.225	.040	0.275		1.213	158.120	1.02	6.990		2-438
2-439	**-439**	6 1/2	7	1/4	6.475		0.275		1.260	164.470		6.990		2-439
2-440	**-440**	6 3/4	7 1/4	1/4	6.725		0.275		1.306	170.820		6.990		2-440
2-441	**-441**	7	7 1/2	1/4	6.975		0.275		1.353	177.170		6.990		2-441
2-442	**-442**	7 1/4	7 3/4	1/4	7.225	.045	0.275		1.400	183.520	1.14	6.990		2-442
2-443	**-443**	7 1/2	8	1/4	7.475		0.275		1.446	189.870		6.990		2-443
2-444	**-444**	7 3/4	8 1/4	1/4	7.725		0.275		1.493	196.220		6.990		2-444
2-445	**-445**	8	8 1/2	1/4	7.975		0.275		1.539	202.570		6.990		2-445

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 2-XXX - O'Rings (403....445)

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-403	5.18	2.09*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-404	5.25	2.24*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-405	5.32	2.35*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-406	5.38	2.45*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-407	5.52	2.45*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-408	5.58	2.64*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-409	5.70	2.91*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-410	5.77	2.96*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-411	5.84	3.07*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-412	5.93	3.23*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-413	5.97	3.27*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-414	6.05	3.50*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-415	6.17	3.69*	O/R	O/R	O/R	O/R	5.56*	O/R	O/R	O/R	O/R
-416	6.23	3.75*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-417	6.34	3.87*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-418	6.42	3.99*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-419	6.46	4.08*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-420	6.58	4.69*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-421	6.70	4.77	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-422	6.82	4.92*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-423	6.97	4.98*	30.84*	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-424	7.17	5.02*	41.56	O/R	O/R	O/R	O/R	O/R	O/R	O/R	O/R
-425	2.64	5.03	33.96	51.04	13.54*	13.54*	23.44*	137.18	60.72*	14.62	4.44
-426	2.64	5.16	34.15	54.58*	3.73*	13.68*	23.70*	140.36*	61.12*	14.62*	4.44
-427	2.64	5.28	33.65	57.00*	13.84*	13.84*	23.90*	143.56*	66.84*	14.62	4.44
-428	2.84	5.45	37.56*	58.20*	13.94*	13.94*	24.16*	146.74*	67.98*	14.62	7.58
-429	2.96	5.55	38.39	61.74	14.08*	14.08*	24.36*	149.96*	73.50*	16.23*	4.44
-430	2.96	5.73	38.60	62.92*	15.78*	15.78*	28.18*	154.88*	74.48*	16.23	4.44
-431	3.38	5.74	39.51	65.28	15.88*	15.88*	28.40*	156.34*	79.82*	16.23	4.44
-432	3.43	6.16	40.02	66.48*	16.06*	16.06*	28.66*	159.52*	82.08*	17.94	5.76
-433	3.43	6.22	41.79	68.84	16.14*	16.14*	28.88*	162.72	88.02*	17.94	6.54
-434	3.48	6.39	42.57*	70.02*	16.28*	16.28*	29.10*	165.90*	91.30*	18.26	4.50
-435	3.69	6.46	43.13	71.22*	16.50*	16.50*	29.34*	169.12*	91.68*	18.26	4.83
-436	3.69	6.69	47.11*	73.56	16.56*	16.56*	29.62*	172.28*	91.68*	18.26	7.95*
-437	3.98	7.38	45.28*	74.76	20.40*	20.40*	36.94*	175.52	91.68*	19.01	5.45
-438	4.25	7.57	47.01*	75.98*	20.64*	20.64*	37.44*	181.90*	94.52*	19.01	5.65
-439	4.41	7.92	49.19	78.34	20.88*	20.88*	37.92*	188.28	95.12*	19.01	6.00
-440	4.73	7.99	50.73	80.72	21.86*	21.86*	38.40*	194.66	97.40*	20.66	8.04
-441	5.18	8.72	54.31	84.26	25.46*	25.46*	49.24*	201.06	107.82*	20.66*	6.92
-442	5.26	9.17	59.09	87.86	25.86*	25.86*	49.72*	207.44*	117.44*	20.66*	6.95
-443	5.45	9.79	62.57	91.38	26.16	26.16*	50.18*	213.82	117.64*	22.31	7.14
-444	6.93	10.18	62.59	94.94*	26.66*	26.66*	50.64*	220.20*	122.04*	26.33*	10.81
-445	6.01	10.68	66.61*	99.70	26.98*	26.98*	54.65*	226.60*	124.14*	30.50	9.46

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CROSS REFERENCE TABLE														
Ref. Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
		ID	OD	W	ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
2-446	**-446**	8 1/2	9	1/4	8.475	.055	0.275	.006	1.633	215.270	1.40	6.990	.150	2-446
2-447	**-447**	9	9 1/2	1/4	8.975		0.275		1.726	227.970		6.990		2-447
2-448	**-448**	9 1/2	10	1/4	9.475		0.275		1.819	240.670		6.990		2-448
2-449	**-449**	10	10 1/2	1/4	9.975		0.275		1.913	253.370		6.990		2-449
2-450	**-450**	10 1/2	11	1/4	10.475	.060	0.275		2.006	266.070	1.52	6.990		2-450
2-451	**-451**	11	11 1/2	1/4	10.975		0.275		2.099	278.770		6.990		2-451
2-452	**-452**	11 1/2	12	1/4	11.475		0.275		2.193	291.470		6.990		2-452
2-453	**-453**	12	12 1/2	1/4	11.975		0.275		2.286	304.170		6.990		2-453
2-454	**-454**	12 1/2	13	1/4	12.475		0.275		2.379	316.870		6.990		2-454
2-455	**-455**	13	13 1/2	1/4	12.975		0.275		2.472	329.570		6.990		2-455
2-456	**-456**	13 1/2	14	1/4	13.475	.070	0.275		2.566	342.270	1.78	6.990		2-456
2-457	**-457**	14	14 1/2	1/4	13.975		0.275		2.659	654.970		6.990		2-457
2-458	**-458**	14 1/2	15	1/4	14.475		0.275		2.752	367.670		6.990		2-458
2-459	**-459**	15	15 1/2	1/4	14.975		0.275		2.846	380.370		6.990		2-459
2-460	**-460**	15.50	16.00	1/4	15.475		0.275		2.939	393.070		6.990		2-460
2-461	**-461**	16	16 1/2	1/4	15.955	.075	0.275		3.029	405.260	1.91	6.990		2-461
2-462	**-462**	16 1/2	17	1/4	16.455		0.275		3.122	417.960		6.990		2-462
2-463	**-463**	17	17 1/2	1/4	16.955	.080	0.275		3.215	430.660	2.03	6.990		2-463
2-464	**-464**	17 1/2	18	1/4	17.455	.085	0.275		3.308	443.360	2.160	6.990		2-464
2-465	**-465**	18.00	18.50	1/4	17.955		0.275		3.402	456.060		6.990		2-465
2-466	**-466**	18 1/2	19	1/4	18.455		0.275		3.495	468.760		6.990		2-466
2-467	**-467**	19	19 1/2	1/4	18.955	.090	0.275		3.588	481.460	2.29	6.990		2-467
2-468	**-468**	19 1/2	20	1/4	19.455		0.275		3.682	494.160		6.990		2-468
2-469	**-469**	20	20 1/2	1/4	19.955	.095	0.275		3.775	506.860	2.41	6.990		2-469
2-470	**-470**	21.00	21.50	1/4	20.955		0.275		3.962	532.260		6.990		2-470
2-471	**-471**	22	22 1/2	1/4	21.955	.100	0.275		4.148	557.660	2.54	6.990		2-471
2-472	**-472**	23	23 1/2	1/4	22.940	.105	0.275		4.332	582.680	2.67	6.990		2-472
2-473	**-473**	24	24 1/2	1/4	23.940	.110	0.275		4.519	608.080	2.79	6.990		2-473
2-474	**-474**	25	25 1/2	1/4	24.940	.115	0.275		4.705	633.480	2.92	6.990		2-474
2-475	**-475**	26.00	26.50	1/4	25.940	.120	0.275		4.892	658.880	3.05	6.990		2-475

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-57 to 135	F:-70 to 250 C:-57 to 135	F:-65 to 250 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232	F:-30 to 250 C:-34 to 121	F:-65 to 225 C:-54 to 107
Ref. Dash Number	**NBR 70** N70 2-XXX/N70 $	**NBR 90A** N90 2-XXX/N90 $	**FPM 75A** V75 2-XXX/V75B $	**FPM 90 A** V90 2-XXX/V90B $	**EPDM 70A** E70 2-XXX/E70 $	**EPDM 80A** E80 2-XXX/E80 $	**SILICONE** S70 2-XXX/S70 $	**AU 90A** U90 2-XXX/U90 $	**V.PTFE** V.PTFE 2-XXX/TF $	**NBR 70A** Q.RING 4-XXX/QN70 $	**NBR 70A** TETRASEAL TS-XXX $
-446	6.22	11.12	70.07	102.08	28.02*	28.02*	64.16*	239.38	128.92*	33.27*	9.48
-447	6.53	11.39	73.19	104.48	28.60*	28.60*	69.06*	252.16	148.96*	33.27	9.64
-448	6.53	11.67	76.37	108.04	29.32	29.32*	69.06	264.92*	152.54*	54.02	10.34
-449	6.53	13.47	82.36	115.14*	30.28*	30.28*	54.74*	277.70*	167.32*	91.74	25.22
-450	7.90	16.38	88.96	121.06	53.02*	53.02*	98.36*	290.48*	186.74*	60.50*	45.63
-451	8.22	17.59	90.59	130.58*	56.06*	56.06*	99.26*	298.26*	O/R	88.28*	56.66
-452	8.94	23.04	94.48	135.30	57.90*	57.90*	100.22*	316.04*	O/R	61.89	73.44
-453	9.50	23.87	97.79	144.82	59.10*	59.10*	101.14*	328.82*	O/R	63.98	73.78
-454	10.01	32.29	101.55	149.56*	67.18*	67.18*	149.30*	341.58*	O/R	85.21	74.00
-455	12.65	25.06	105.08*	155.52*	67.74*	67.74*	150.48*	354.38*	O/R	63.98*	76.54
-456	12.65	24.54	105.41	162.62*	68.36*	68.36*	151.72*	367.14*	O/R	97.40*	80.24*
-457	12.65	24.98	112.09*	169.74*	68.94*	68.94*	152.96*	379.66*	O/R	98.18*	87.86
-458	12.65	25.39	113.43	179.24*	69.56*	69.56*	154.16*	392.68*	O/R	64.92	122.22
-459	13.06	25.63	117.66	187.58*	70.18*	70.18*	155.38*	405.46*	303.68*	127.38*	123.94
-460	13.68	26.26	119.54	194.68	70.78*	70.78*	156.58*	407.64*	O/R	163.60	O/R
-461	15.29	30.10	O/R	203.02*	71.36*	71.36*	157.72*	O/R	O/R	187.14*	132.20*
-462	15.80	30.43	O/R	213.70*	72.08*	72.08*	158.96*	O/R	O/R	209.58*	O/R
-463	16.83	30.93	O/R	223.20*	72.90*	72.90*	160.14*	O/R	O/R	211.46*	O/R
-464	17.91	31.35	82.97*	227.92*	73.86*	73.86*	161.38*	O/R	O/R	127.90*	O/R
-465	20.03	34.16*	171.52	239.78*	77.28*	77.28*	162.62*	O/R	O/R	216.06	O/R
-466	20.03	33.95	173.88	249.28*	82.20	82.20*	163.90*	O/R	O/R	219.06	O/R
-467	20.03	36.34	O/R	255.22*	82.98*	82.98*	165.12*	O/R	O/R	234.70*	146.64
-468	21.07	36.71	185.10*	267.10*	84.76*	84.76*	169.60*	O/R	O/R	221.38*	O/R
-469	21.04	38.03	O/R	273.04*	O/R	88.50*	169.96*	O/R	O/R	253.70*	O/R
-470	21.08	41.30*	O/R	278.96	93.94*	93.94*	173.22*	O/R	O/R	274.28*	O/R
-471	21.32	42.25*	O/R	290.84*	99.68*	99.68*	176.52*	O/R	O/R	296.36*	O/R
-472	21.43	53.20	O/R	296.76*	105.42*	105.42*	179.76*	O/R	O/R	O/R	O/R
-473	21.54	55.64*	226.98*	308.64*	110.50*	110.50*	183.02*	O/R	O/R	O/R	O/R
-474	21.79*	60.88*	O/R	320.52	116.32*	116.32*	186.32*	O/R	O/R	O/R	O/R
-475	22.03	61.62*	265.02*	344.26*	119.70*	119.70*	189.64*	O/R	O/R	O/R	O/R

For Straight Thread Tube fittings

AS 568A Dash Numbers	NAS 1595 NAS 1596 MS 28778 NAS 617 NAS 1612 Dash Numbers	MS 9020 MS 29512 Dash Numbers	Tube Size Size O.D. Inches	Inch Standard Inside Diameter IN	±	Metric Standard Inside Diameter MM	±	Inch Standard Cross-Section IN	±	Metric Standard Cross-Section MM	±
-901		-01	3/32	.185	.005	4.70	.13	.056	.003	1.42	.08
-902	-2	-02	1/8	.230	.005	6.07	.13	.064	.003	1.63	.08
-903	-3	-03	3/16	.301	.005	7.65	.13	.064	.003	1.63	.08
-904	-4	-04	1/4	.351	.005	8.92	.13	.072	.003	1.83	.08
-905	-5	-05	5/16	.414	.005	10.52	.13	.072	.003	1.83	.08
-906	-6	-06	3/8	.468	.005	11.89	.13	.078	.003	1.98	.08
-907		-07	7/16	.530	.007	13.46	.18	.082	.003	2.08	.08
-908	-8	-08	1/2	.644	.009	16.36	.23	.087	.003	2.21	.08
-909		-09	9/16	.706	.009	17.93	.23	.097	.003	2.46	.08
-910	-10	-10	5/8	.755	.009	19.18	.23	.097	.003	2.46	.08
-911		-11	11/16	.863	.009	21.92	.23	.116	.004	2.95	.10
-912	-12	-12	3/4	.924	.009	23.47	.23	.116	.004	2.95	.10
-913		-13	13/16	.986	.010	25.04	.25	.116	.004	2.95	.10
-914		-14	7/8	1.047	.010	26.59	.25	.116	.004	2.95	.10
-916	-16	-16	1	1.171	.010	29.74	.25	.116	.004	2.95	.10
-918		-18	1-1/8	1.355	.012	34.42	.30	.116	.004	2.95	.10
-920	-20	-20	1-1/4	1.475	.014	37.47	.36	.118	.004	3.00	.10
-924	-24	-24	1-1/2	1.720	.014	43.69	.36	.118	.004	3.00	.10
-928	-28	-28	1-3/4	2.090	.018	53.09	.46	.118	.004	3.00	.10
-932	-32	-32	1-3/4	2.337	.018	59.36	.46	.118	.004	3.00	.10

Series 3-XXX - O'Rings - Cross reference table

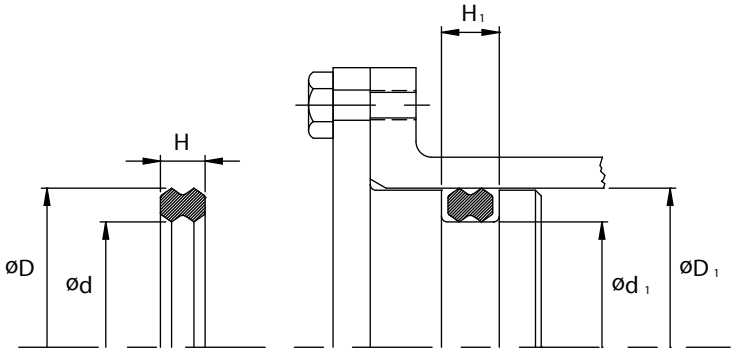
Ref. Number	AS 568A Uniform Dash Number	Tube OD	STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Cross Section Area (Sq. In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Ref. Number
			ID	Tol. +/-	W	Tol. +/-		ID	Tol. +/-	W	Tol. +/-	
3-901	**-901**	3/32	0.185	.004	0.056	.003	0.0025	4.70	.100	1.42	.080	3-901
3-902	**-902**	1/8	0.239		0.064		0.0032	6.07		1.63		3-902
3-903	**-903**	3/16	0.301		0.064		0.0032	7.65		1.63		3-903
3-904	**-904**	1/4	0.351	.005	0.072		0.0041	8.92	.130	1.83		3-904
3-905	**-905**	5/16	0.414		0.072		0.0041	10.52		1.83		3-905
3-906	**-906**	3/8	0.468		0.078		0.0048	11.89		1.98		3-906
3-907	**-907**	7/16	0.530		0.082		0.0053	13.46		2.08		3-907
3-908	**-908**	1/2	0.644		0.087		0.0059	16.36		2.21		3-908
3-909	**-909**	9/16	0.706		0.097		0.0074	17.93		2.46		3-909
3-910	**-910**	5/8	0.755		0.097		0.0074	19.18		2.46		3-910
3-911	**-911**	11/16	0.863		0.116		0.0106	21.92		2.95		3-911
3-912	**-912**	3/4	0.924		0.116		0.0106	23.47		2.95		3-912
3-913	**-913**	13/16	0.986		0.116		0.0106	25.04		2.95		3-913
3-914	**-914**	7/8	1.047		0.116		0.0106	26.59		2.95		3-914
3-916	**-916**	1	1.171	.007	0.116		0.0106	29.74	.180	2.95		3-916
3-918	**-918**	1 1/8	1.355	.009	0.116		0.0106	34.42	.230	2.95		3-918
3-920	**-920**	1 1/4	1.475		0.118		0.0109	37.47		3.00		3-920
3-924	**-924**	1 1/2	1.720		0.118		0.0109	43.69		3.00		3-924
3-928	**-928**	1 3/4	2.090		0.118		0.0109	53.09		3.00		3-928
3-932	**-932**	2	2.337		0.118		0.0109	59.36		3.00		3-932

Ref. Dash Number	NBR 70A N70 3-XXX/N70 $	NBR 90A N90 3-XXX/N90 $	FPM 75A V75 3-XXX/V75B $	FPM 90A V90 3-XXX/V90B $	EPDM 70A E70 3-XXX/E70 $	SILICONE S70 3-XXX/S70 $	AU 90A U90 3-XXX/U90 $	V.PTFE TF 3-XXX/TF $
	F:-30 to 250 C:-34 to 121	F:-30 to 250 C:-34 to 121	F:-15 to 400 C:-26 to 205 BROWN	F:-15 to 400 C:-26 to 205 BROWN	F:-70 to 250 C:-56 to 121	F:-65 to 450 C:-54 to 232	F:-60 to 250 C:-51 to 121	F:-320 to 450 C:-196 to 232
3-901	0.12*	0.25	0.91*	1.43*	0.12*	0.24*	9.24*	1.89*
3-902	0.12*	0.25	0.98*	1.63	0.12*	0.24*	9.94	1.98*
3-903	0.13*	0.25	1.00	1.64	0.12*	0.24*	10.24*	2.14*
3-904	0.12	0.36	1.08	1.74	0.12	0.26*	10.51*	2.20*
3-905	0.12*	0.36	1.12	1.78	0.14*	0.28*	11.01*	2.36*
3-906	0.12	0.36	1.48	1.85	0.18	0.34*	11.36*	3.02*
3-907	0.18	0.36	1.78	1.98	0.18*	0.36*	12.00*	3.12*
3-908	0.24	0.40	1.94	2.15	0.22	0.42*	12.18*	3.60*
3-909	0.24*	0.40	2.44*	2.73*	0.24	0.50*	13.00*	4.02*
3-910	0.24	0.42	2.64	2.94	0.26*	0.56*	13.32*	4.24*
3-911	0.25*	0.46	4.00	3.43*	0.42*	0.86*	13.74*	4.36*
3-912	0.38	0.53	4.32	3.89	0.44	0.90*	14.78*	4.88*
3-913	0.41*	0.56	5.06	3.70	0.44*	0.92*	15.05*	5.01*
3-914	0.44*	0.61	5.46	4.92	0.52*	1.04*	16.21*	5.24*
3-916	0.52	0.66	5.80	5.26	0.58*	1.16*	16.74*	5.36*
3-918	0.53*	0.78	6.22	5.51*	0.64*	1.30*	17.02*	6.98*
3-920	0.64	0.85	6.50*	6.44	0.66	1.32	17.36	7.72*
3-924	0.70	1.24	7.50	9.04	0.82	1.60*	18.01*	8.62*
3-928	0.91*	1.49	9.18*	11.03	1.00	2.00*	20.04*	9.56*
3-932	0.98*	1.64	10.08*	12.18	1.24*	2.50*	22.60*	11.12*

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Head seals - Inch





Standard Material	Temperature Range	Pressure Range
Polyurethane	Low Extreme	
	-65°F (-54°C)	N/A
	Normal Operation	
	-40°F à +250°F (-40°C à +121°F)	≤5000 psi (≤345 bar)
	High Extreme	
	+265°F (+129°C)	≤10 000 psi (≤689 bar)

Head seals are used in static applications as replacements to O'Ring/Back-up assemblies. High performance material and a symmetrical geometry greatly reduces the risk of installation damage and extrusion at higher pressures. This product offers an improved fit and a more stable profile once installed in the housing.

Alternate Materials : For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

GAP DIMENSION "G"			
In order to avoid extrusion, the maximum pressure allowed depends on the fitting gap :			
Gap	**Pressure**	**Gap**	**Pressure**
0.047"	≤725 psi (≤50 bar)	0.010"	≤4350 psi (≤300 bar)
0.031"	≤1450 psi (≤100 bar)	0.007"	≤5800 psi (≤400 bar)
0.016"	≤2900 psi (≤200 bar)	0.004"	≤7250 psi (≤500 bar)
NB. For the Gap calculation, it is necessary to consider the elastic deformation of metal elements under pressure loads.			

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
HS2-226	**2.250**	+.002 -.000	2.250	2.000	0.187	2.250	+.002 -.000	2.028	+.000 -.002	0.208	+.005 -.000	15.68
HS2-228	**2.500**	↓	2.500	2.250	0.187	2.500	↓	2.278	↓	0.208	↓	19.05
HS2-230	**2.750**		2.750	2.500	0.187	2.750		2.528		0.208		19.05

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Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
HS2-232	**3.000**	+.002 -.000	3.000	2.750	0.187	3.000	+.002 -.000	2.778	+.000 -.002	0.208	+.005 -.000	21.74
HS2-234	**3.250**		3.250	3.000	0.187	3.250		3.028		0.208		21.74
HS2-235	**3.375**		3.375	3.125	0.187	3.375		3.153		0.208		21.74
HS2-236	**3.500**		3.500	3.250	0.187	3.500		3.278		0.208		21.74
HS2-238	**3.750**		3.750	3.500	0.187	3.750		3.528		0.208		21.74
HS2-240	**4.000**		4.000	3.750	0.187	4.000		3.778		0.208		27.71
HS2-242	**4.250**		4.250	4.000	0.187	4.250		4.028		0.208		27.71
HS2-244	**4.500**		4.500	4.250	0.187	4.500		4.278		0.208		27.71
HS2-246	**4.750**		4.750	4.500	0.187	4.750		4.528		0.208		30.78
HS2-248	**5.000**		5.000	4.750	0.187	5.000		4.778		0.208		30.78
HS2-250	**5.250**		5.250	5.000	0.187	5.250		5.028	+.000 -.004	0.208		30.78
HS2-251*	**5.375**		5.375	5.125	0.187	5.375		5.153		0.208		30.78
HS2-252	**5.500**		5.500	5.250	0.187	5.500		5.278		0.208		30.78
HS2-254	**5.750**		5.750	5.500	0.187	5.750		5.528		0.208		45.49
HS2-256	**6.000**		6.000	5.750	0.187	6.000		5.778		0.208		45.49
HS2-259*	**6.500**		6.500	6.250	0.187	6.500		6.278		0.208		45.49
HS2-265	**8.000**		8.000	7.750	0.187	8.000		7.778		0.208		69.18
HS2-338	**3.500**		3.500	3.125	0.281	3.500		3.160		0.311		29.91
HS2-342	**4.000**		4.000	3.625	0.281	4.000		3.660		0.311		29.91
HS2-344*	**4.250**		4.250	3.875	0.281	4.250		3.910		0.311		29.91
HS2-346*	**4.500**		4.500	4.125	0.281	4.500		4.160		0.311		29.91
HS2-348*	**4.750**		4.750	4.375	0.281	4.750		4.410		0.311		30.78
HS2-350	**5.000**		5.000	4.625	0.281	5.000		4.660		0.311		30.78
HS2-352*	**5.250**		5.250	4.875	0.281	5.250		4.910		0.311		30.78
HS2-353*	**5.375**		5.375	5.000	0.281	5.375		5.035		0.311		30.78
HS2-354	**5.500**		5.500	5.125	0.281	5.500		5.160		0.311		30.78
HS2-356	**5.750**		5.750	5.375	0.281	5.750		5.410		0.311		45.66
HS2-358	**6.000**		6.000	5.625	0.281	6.000		5.660		0.311		45.66
HS2-360	**6.250**		6.250	5.875	0.281	6.250		5.910		0.311		45.66
HS2-377/30K*	**10.375**		10.375	10.000	0.281	10.375		10.035		0.311		133.86
HS2-433/30K	**6.000**		6.000	5.500	0.368	6.000		5.548		0.413		120.90
HS2-439	**7.000**		7.000	6.500	0.368	7.000		6.548		0.413		150.12
HS2-446	**8.000**		8.000	8.500	0.368	8.000		8.548		0.413		156.77
HS2-448	**9.000**		9.000	9.500	0.368	9.000		9.548		0.413		172.66
HS2-450*	**10.000**		10.000	10.500	0.368	10.000		10.548		0.413		189.96

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O'Ring Kits and Accessories



COMPACT SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-C-E70*	**ETHYLENE PROPYLENE 70**	382	30	141.71
ORK-C-N70	**NITRILE 70**	382	30	58.32
ORK-C-N90	**NITRILE 90**	382	30	109.59
ORK-C-S70*	**SILICONE 70**	382	30	302.36
ORK-C-V75*	**FLUOROCARBON 75**	382	30	359.12
ORK-C-V75B	**FLUOROCARBON 75 (BROWN)**	382	30	461.08
ORK-C-V90B	**FLUOROCARBON 90 (BROWN)**	382	30	520.35
QRK-C-N70	**NITRILE 70**	382	30	287.25

INDUSTRIAL SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-IND-N70	**NITRILE 70**	436	36	119.29
ORK-IND-N90	**NITRILE 90**	436	36	100.10
ORK-IND-PTFE*	**VIRGIN PTFE**	325	36	907.61
ORK-IND-V75	**FLUOROCARBON 75**	436	36	421.12
QRK-IND-N70	**NITRILE 70**	226	36	165.84





WAREHOUSE SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-WHSE-E70*	**ETHYLENE PROPYLENE 70**	1110	150	1085.65
ORK-WHSE-N70*	**NITRILE 70**	1110	150	842.71
ORK-WHSE-N90	**NITRILE 90**	1110	150	789.92
ORK-WHSE-S70*	**SILICONE 70**	1110	150	1422.07
ORK-WHSE-V75B*	**FLUOROCARBON 75 (BROWN)**	1110	150	1256.67
ORK-WHSE-V90B*	**FLUOROCARBON 90 (BROWN)**	1110	150	1792.03
QRK-WHSE-N70*	**NITRILE 70**	1010	130	911.15

BOSS SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-BOSS-N90	**NITRILE 90**	250	12	59.89
ORK-BOSS-N90D	**NITRILE 90**	212	20	104.00
ORK-BOSS-V90D*	**FLUOROCARBON 90(BROWN)**	212	20	298.60





BACK-UP RING

Ref. Number	Material	Total Qty	Sizes	$
BURK-N90C	**NITRILE 90**	325	36	131.61
BURK-ST/T	**VIRGIN PTFE - SPLIT**	325	36	338.97
BURK-SD/P	**POY-TEMP**	325	36	308.65
BURK-SD/T	**VIRGIN PTFE - SOLID**	325	36	284.24
BURK-U90	**URETHANE 90 DURO**	325	36	197.59

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FLAT FACE SEAL SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-ORS-N90	**NITRILE 90**	140	8	59.34
ORK-ORS-V90B	**FLUOROCARBON 90 (BROWN)**	140	8	151.90





SAE 4-BOLTS FLANGE SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-ORF-N90	**NITRILE 90**	50	8	53.86
SAE-SFS-KIT	**POLYURETHANE 95**	40	8	223.43

OSK SERIES

Ref. Number	Material	$
OSK100-NBR	**O-RING SPLICING KIT - NBR 70**	111.72
OSK100-FPM	**O-RING SPLICING KIT - FPM 75**	437.44





FITTING

Ref. Number	Material	Total Qty	Sizes	$
ORK-FITTING-N90	**HOSE END AND ADAPTER KIT**	216	27	243.18

ACCESSORIES

Ref. Number	Description	$
ORING-ET500*	**EXTRACTION TOOLS**	53.79
ORING-ET72000408*	**MACHINIST SCIBE**	33.62
ORING-MHS100	**MINI ORING PICK SET**	76.15
ORING-GAUGE/MD-999*	**MEASURING GAUGE**	O/R
ORING-GAUGE/SC600	**SIZING CONE AND TAPE**	130.29
ORING-GAUGE/SC600-XL*	**SIZING CONE**	349.80





O-RING LUBRICANT

Ref. Number	Material	$
OL884-.50	**O'LUBE 0.50 OZ.**	18.43
OLUBE884-2	**O'LUBE 2.00 OZ.**	52.22
SLUBE884-2	**SUPER O'LUBE 2.00 OZ**	87.52

RETAINING RING

Ref. Number	Material	Total Qty	Sizes	$
SRK-N1300/N1400	**INTERNAL/EXTERNAL - R.R KIT**	410	34	379.34
SRK-N1300*	**INTERNAL - R.R KIT**	475	18	293.46
SRK-N1400*	**EXTERNAL - R.R KIT**	490	18	293.46



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Flange Seal - Inch

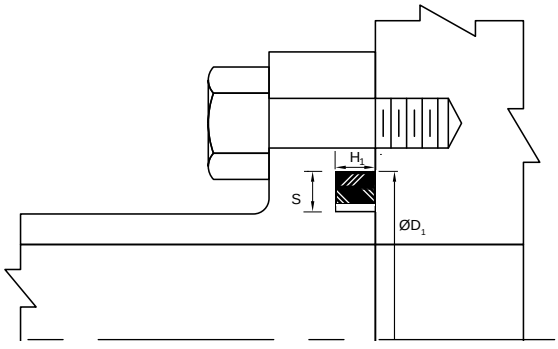


SFS



PFS

Standard Material	Temperature Range	Pressure Range
SFS : Polyurethane	-40°F to +195°F (-40°C to +90°C)	≤3000 psi (≤206 bar)
PFS : Polyurethane	-40°F to +212°F (-40°C to +100°C)	≤7250 psi (≤500 bar)



SFS/PFS flange seals are designed to retrofit O-Rings on all 4-bolt flanges such as shown in SAE standard J518C Code 61/62. The polyurethane material offers extended service life, improved extrusion resistance and easy installation.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref. Number	Ref. Number	References			Housing Dimensions						SFS $	PFS $
		SAE Flange Size	Flange Dash Size	Replaces O'Ring	D1	Tol.	S	Tol.	H1	Tol.		
SFS-8*	PFS-08*	0.500	-08	-210	1.000	+.004 -.004	0.165	+.010 -.010	0.112	+.003 -.003v	3.94	3.94
SFS-12*	PFS-12	0.750	-12	-214	1.252		0.165		0.112		4.13	4.13
SFS-16*	PFS-16	1.000	-16	-219	1.559		0.165		0.112		4.68	4.68
SFS-20	PFS-20	1.250	-20	-222	1.752		0.165		0.112		5.07	5.07
SFS-24*	PFS-24*	1.500	-24	-225	2.114		0.165		0.112		5.41	5.41
SFS-32*	PFS-32*	2.000	-32	-228	2.496		0.165		0.112		6.61	6.61
SFS-40*	PFS-40	2.500	-40	-232	3.000		0.165		0.112		8.11	8.11
SFS-48*	PFS-48*	3.000	-48	-237	3.618		0.165		0.112		10.37	O/R
SFS-56*	PFS-56*	3.500	-56	-241	4.125		0.165		0.112		10.69	O/R
SFS-64*	PFS-64*	4.000	-64	-245	4.637		0.165		0.112		10.93	O/R
SFS-80*	PFS-80*	5.000	-80	-253	5.637		0.165		0.112		11.23	O/R

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Standard Material	Temperature Range
Nitrile	-30°F to +250°F (-34°C to +121°C)
Fluorocarbon	-15°F to +400°F (-26°C to +205°C)
Neoprene	-31°F to +212°F (-35°C to +100°C)
Silicone	-70°F to + 450°F (-57°C to + 232°C)

O'Ring cord is supplied as a continuously extruded profile. **O'Ring cord** can be used to manufacture custom. O'Rings when no standard size is available. A wide variety of cross-sections and sizes are available.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

	Material	Prefix	Cord Cross Section															
			0.070	0.093	0.103	0.125	0.139	0.156	0.187	0.210	0.250	0.275	0.312	0.375	0.437	0.500	0.625	0.750	1.000
●	NBR 70	OC/N	0.99	1.12	1.63	1.37	1.86	1.04	1.72	2.35	1.99	1.99	4.06	4.29	3.86	8.24	6.86	12.10	12.31
●	FPM 75	OC/V	4.86	5.32	5.32	8.42	8.42	12.02	13.21	14.44	24.18	24.26	30.99	33.53	53.02	61.05	100.01	146.95	251.74
●	EPDM 80	OC/E	1.10	1.10	1.27	1.47	1.72	1.79	1.88	1.90	2.37	2.55	3.12	3.40	3.88	5.61	9.54	18.49	27.81
●	SILICONE 70	OC/S	0.47	0.61	0.69	0.74	0.89	1.12	1.68	1.72	5.56	2.55	3.52	4.86	7.04	8.24	13.90	21.21	35.16
✖	NBR 70	QC/N	O/R	O/R	O/R	O/R	2.19	O/R	O/R	3.12	O/R	4.03	5.32	O/R	O/R	O/R	O/R	O/R	O/R
■	NBR 70	SC/N	O/R	O/R	1.20	O/R	1.53	O/R	O/R	1.86	2.25	4.53	4.59	O/R	9.85	9.85	11.88	18.06	O/R
Increments of 1 ft																			

Vulcanized O'Rings - Inch



Standard Materials	Temperature Range
Nitrile	-30°F to +250°F (-34°C to +121°C)
Fluorocarbon	-15°F to +400°F (-26°C to +205°C)
Ethylene Propylene 80A	-65°F to +450°F (-54°C to +232°C)
Silicone 70A	-70°F to +300°F (-57°C to +149°C)

With the use of standard cord stock, **vulcanized O'Rings** offer you a dimensionally custom-made solid ring using a hot-bonded process. The splice-and-jointed area of the ring offers full flexibility and allows for a reliable sealing performance.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

CROSS SECTION DIAMETER AVAILABLE																	
NITRILE																	
O'Ring	1/16"	3/32"		1/8"		3/16"		1/4"		5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	1"
I.D.	.070"	.093"	.103"	.125"	.139"	.187"	.210"	.250"	.275"	.312"	.375"	.437"	.500"	.562"	.625"	.750"	1.000"
2-3"	16.46	16.46	16.46	16.46	16.46	16.62	16.70	16.81	16.91	17.18	17.88						
3-4"	16.46	16.46	16.46	16.58	16.64	16.95	17.08	17.18	17.35	17.76	18.55	19.75	20.37	21.28	22.15		
4-5"	16.46	16.46	16.58	16.81	16.87	17.30	17.41	17.59	17.74	18.26	19.27	20.68	21.47	22.56	23.53	26.20	37.28
5-6"	16.46	16.58	16.73	17.08	17.12	17.59	17.76	17.97	18.15	18.77	19.85	21.65	22.52	23.76	24.94	28.03	40.32
6-7"	16.46	16.73	16.95	17.30	17.41	17.93	18.09	18.32	18.55	19.27	20.62	22.58	23.62	25.03	26.31	29.87	44.63
7-8"	16.58	16.87	17.12	17.49	17.64	18.26	18.50	18.73	18.94	19.75	21.28	23.53	24.67	26.25	27.76	31.71	48.25
8-9"	16.73	17.08	17.32	17.76	17.93	18.53	18.82	19.08	19.39	20.24	21.90	24.49	25.77	27.53	29.17	33.55	51.85
9-10"	16.85	17.18	17.49	17.99	18.15	18.88	19.17	19.44	19.75	20.68	22.62	25.56	26.79	28.73	30.55	35.40	55.49
10-12"	17.20	17.53	17.86	18.44	18.61	19.46	19.75	20.12	20.47	21.55	23.70	26.85	28.46	30.64	32.62	38.07	60.61
12-14"	17.59	18.03	18.44	19.11	19.27	20.18	20.58	20.99	21.42	22.67	25.15	28.83	30.61	33.18	35.50	41.79	67.69
14-16"	17.99	18.48	18.96	19.69	19.95	20.99	21.42	21.88	22.33	23.76	26.64	30.72	32.81	35.75	38.38	45.46	74.77
16-18"	18.38	18.96	19.50	20.31	20.58	21.78	22.29	22.73	23.29	24.88	28.03	32.73	35.02	38.33	41.23	49.10	81.82
18-20"	18.77	19.50	20.00	20.93	21.22	22.56	23.12	23.70	24.22	26.02	29.50	34.67	37.22	40.82	44.05	52.72	88.86
20-22"	19.21	19.95	20.55	21.53	21.84	23.29	23.93	24.55	25.17	27.14	30.94	36.58	39.41	43.34	46.84	56.45	95.98
22-24"	19.58	20.37	21.05	22.15	22.50	24.09	24.76	25.44	26.12	28.23	32.46	38.56	41.63	45.93	49.78	60.11	103.04
24-26"	20.02	20.86	21.55	22.73	23.14	24.84	25.58	26.31	27.09	29.37	33.88	40.53	43.78	48.46	52.58	63.80	110.10
26-28"	20.41	21.32	22.11	23.41	23.80	25.61	26.41	27.16	27.99	30.47	35.35	42.47	45.85	48.68	55.41	67.40	117.18
28-30"	20.82	21.82	22.64	24.03	24.43	26.37	27.20	28.05	28.94	31.61	36.82	44.44	48.13	53.55	58.29	71.10	124.24
30-32"	21.22	22.29	23.14	24.61	25.09	27.16	28.03	28.96	29.87	32.73	38.27	46.37	50.44	56.14	61.17	74.81	131.27
32-34"	21.65	22.69	23.70	25.23	25.73	27.98	28.88	29.87	30.78	33.86	39.70	48.31	52.64	58.66	63.96	78.45	138.39
34-36"	22.06	23.20	24.20	25.89	26.37	28.73	29.74	30.72	31.73	34.90	41.17	50.32	54.87	61.29	66.84	84.22	145.45
36-38"	22.44	23.70	24.76	26.47	27.03	29.50	30.55	31.65	32.64	36.06	42.64	52.24	57.05	63.80	69.67	85.78	152.53
38-40"	22.85	24.11	25.23	27.14	27.70	30.26	31.34	32.52	33.60	37.15	44.11	54.23	59.28	66.34	72.51	89.48	159.59
40-42"	23.25	24.59	25.79	27.43	28.32	31.09	32.23	33.41	34.59	38.27	45.52	56.16	61.43	68.89	75.34	93.15	166.67
42-44"	23.70	25.09	26.31	28.32	28.96	31.77	33.04	34.28	35.52	39.41	46.95	58.08	63.63	71.47	78.20	99.34	173.73
44-46"	24.09	25.52	26.85	28.96	29.62	32.58	33.88	35.13	36.47	40.53	48.46	60.11	65.84	74.04	81.08	100.45	180.79
46-48"	24.47	26.02	27.38	29.52	30.26	33.37	34.73	36.06	37.38	41.61	49.89	62.02	68.04	76.61	83.64	104.18	187.87

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Vulcanized Nitrile O'Rings

CROSS SECTION DIAMETER AVAILABLE																		
O'Ring	1/16"	3/32"		1/8"		3/16"		1/4"		5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	1"
I.D.	.070"	.093"	.103"	.125"	.139"	.187"	.210"	.250"	.275"	.312"	.375"	.437"	.500"	.562"	.625"	.750"	1.000"
48-50"	24.88	26.47	27.94	30.20	30.88	34.15	35.40	36.93	38.33	42.74	51.35	63.96	70.23	79.11	86.81	107.80	194.94
50-53"	24.88	26.47	27.94	30.20	30.88	34.15	35.40	36.93	38.33	42.74	51.35	63.96	70.23	79.11	86.81	107.80	194.94
53-56"	25.50	27.20	28.67	31.15	31.88	35.33	36.82	38.27	39.76	44.40	53.51	66.94	73.57	82.98	91.06	113.37	205.61
56-59"	26.12	27.94	29.45	32.02	32.81	36.47	38.02	39.60	41.17	46.04	55.70	69.88	76.84	86.81	95.30	118.87	216.26
59-62"	26.74	28.61	30.26	32.99	33.86	37.65	39.25	40.96	42.54	47.75	57.90	72.78	80.17	90.66	99.58	124.40	226.76
62-65"	27.36	29.31	31.09	33.91	34.77	38.79	40.53	42.25	43.99	49.43	60.11	75.68	83.46	94.43	103.83	129.85	237.36
65-68"	27.98	30.03	31.83	34.84	35.75	39.97	41.79	43.59	45.37	51.13	62.32	78.62	86.75	98.24	108.07	135.43	247.98
68-71"	28.56	30.76	32.58	35.75	36.72	41.07	42.97	44.81	46.78	52.72	64.40	81.55	90.02	102.03	112.36	140.88	258.47
71-74"	29.14	31.50	33.41	36.66	37.67	42.25	44.23	46.22	48.19	54.44	66.61	84.51	93.31	105.90	116.66	146.40	269.19
74-77"	29.79	32.13	34.20	37.61	38.67	43.47	45.48	47.57	49.60	56.09	68.78	87.39	96.64	109.71	120.95	151.91	279.81
77-80"	30.37	32.85	34.96	38.50	39.64	44.63	46.76	48.91	51.02	57.81	71.02	90.43	99.92	113.56	125.25	157.42	290.43
80-83"	31.03	33.55	35.75	39.49	40.55	45.79	48.00	50.26	51.35	59.39	73.19	93.27	103.21	118.32	129.45	162.88	301.01
83-86"	31.61	34.28	36.55	40.40	41.56	46.90	49.22	51.58	53.84	61.17	75.34	96.25	106.54	121.24	133.80	168.41	311.61
86-89"	32.23	34.94	37.34	41.32	42.48	48.11	50.44	52.87	55.29	62.78	77.54	99.13	109.50	124.75	138.04	173.96	322.22
89-92"	32.81	35.69	38.13	42.25	43.53	49.26	51.69	54.23	56.67	64.48	79.75	102.13	113.16	128.93	142.33	179.44	332.82
92-95"	41.16	44.77	47.83	53.00	54.60	61.79	64.84	68.02	71.08	80.89	100.03	128.11	141.95	161.72	178.54	225.09	417.49

Vulcanized Fluorocarbon O'Rings

CROSS SECTION DIAMETER AVAILABLE																	
O'Ring	1/16"	3/32"		1/8"		3/16"		1/4"		5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	1"
I.D.	.070"	.093"	.103"	.125"	.139"	.187"	.210"	.250"	.275"	.312"	.375"	.437"	.500"	.562"	.625"	.750"	1.000"
Up to 10"	33.06	33.94	34.81	35.28	35.89	40.49	41.54	46.10	50.94	69.32	89.76	129.07	150.91	O/R	O/R	O/R	O/R
10-15"	36.79	37.76	38.78	39.94	40.70	48.53	49.88	60.31	67.32	95.82	122.42	178.78	210.06	O/R	O/R	O/R	O/R
15-20"	40.43	41.59	42.77	44.54	45.43	56.53	59.66	75.87	84.93	120.41	155.07	228.43	269.17	O/R	O/R	O/R	O/R
20-25"	44.01	45.34	46.67	49.06	51.59	64.41	70.36	89.76	101.31	145.02	187.69	278.10	328.32	O/R	O/R	O/R	O/R
25-30"	47.54	49.04	50.54	55.14	58.66	72.20	81.88	103.97	117.64	169.62	220.34	327.77	387.45	O/R	O/R	O/R	O/R
30-35"	51.09	52.71	54.36	61.64	65.76	79.88	92.59	118.15	134.07	194.23	253.00	377.46	446.60	O/R	O/R	O/R	O/R
35-40"	54.59	56.32	58.16	68.69	73.08	87.52	103.25	132.34	150.41	218.82	285.64	427.12	510.27	O/R	O/R	O/R	O/R
40-45"	57.80	59.97	61.98	75.21	80.49	95.08	113.97	146.54	166.79	243.42	318.27	476.77	569.40	O/R	O/R	O/R	O/R
45-50"	61.43	63.50	65.67	81.74	87.59	102.57	124.65	160.75	183.17	268.03	350.91	530.30	628.55	O/R	O/R	O/R	O/R
50-55"	64.77	67.00	69.35	88.26	94.68	109.96	135.34	174.94	199.51	292.60	383.57	579.97	687.67	O/R	O/R	O/R	O/R
55-60"	68.14	70.53	72.98	94.80	101.77	118.09	146.02	189.12	215.89	317.20	418.73	629.62	746.82	O/R	O/R	O/R	O/R
60-65"	71.42	73.97	76.57	101.31	108.88	126.51	156.72	203.29	232.27	341.81	451.33	679.29	805.95	O/R	O/R	O/R	O/R
65-70"	74.69	77.35	80.77	107.85	115.96	134.93	167.40	217.50	248.65	368.30	483.99	728.99	865.10	O/R	O/R	O/R	O/R
70-75"	77.92	81.04	85.43	114.37	123.09	143.34	178.08	232.78	266.26	392.90	516.64	778.64	924.21	O/R	O/R	O/R	O/R
75-80"	81.10	85.43	90.05	120.90	130.18	151.74	188.79	246.98	282.64	417.51	549.26	828.33	983.36	O/R	O/R	O/R	O/R
80-85"	84.25	89.76	94.68	127.46	137.28	160.84	200.29	261.17	298.98	442.10	581.93	878.00	1042.47	O/R	O/R	O/R	O/R
85-90"	87.37	94.09	99.32	133.96	144.35	169.24	211.01	275.36	315.36	466.70	614.57	927.67	1101.62	O/R	O/R	O/R	O/R
90-95"	90.46	98.48	103.97	141.01	152.01	177.66	221.70	289.58	331.74	491.31	647.21	977.36	1165.32	O/R	O/R	O/R	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Vulcanized Silicone O'Rings

CROSS SECTION DIAMETER AVAILABLE															
O'Ring	1/16"	3/32"		1/8"		3/16"		1/4"		5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
I.D.	.070"	.093"	.103"	.125"	.139"	.187"	.210"	.250"	.275"	.312"	.375"	.437"	.500"	.625"	.750"
UP TO 10"	45.68	46.41	47.15	47.40	48.29	48.99	49.76	50.63	51.31	52.60	55.54	61.23	64.35	79.96	90.25
10-15"	47.21	47.96	48.75	49.72	50.73	52.16	53.28	54.98	56.32	58.29	63.28	72.78	78.08	104.12	121.30
15-20"	48.64	49.53	50.40	52.04	53.20	55.31	56.34	59.22	61.08	63.90	70.91	84.27	91.68	128.04	152.08
20-25"	50.17	51.07	52.02	54.31	55.58	58.47	59.65	63.50	65.82	69.49	78.51	95.63	105.23	151.79	182.61
25-30"	51.64	52.64	53.63	56.65	57.96	61.58	62.84	67.67	70.52	75.03	86.05	106.95	118.63	175.36	212.93
30-35"	53.11	54.17	55.23	58.87	60.38	64.64	66.07	71.83	75.16	80.52	93.54	118.15	131.89	198.73	242.95
35-40"	54.52	55.64	56.82	61.17	62.76	67.69	69.22	75.95	79.75	85.98	100.93	129.23	145.10	221.90	272.75
40-45"	55.99	57.13	58.41	63.34	65.08	70.75	72.39	80.04	84.31	91.33	108.28	140.26	158.16	244.91	302.31
45-50"	57.40	58.64	59.94	65.58	67.40	73.75	75.51	84.10	88.86	96.71	115.54	151.17	171.08	267.66	331.56
50-55"	58.81	60.11	61.46	67.75	69.69	76.75	78.62	88.16	93.33	102.03	122.73	161.97	183.91	290.24	360.58
55-60"	60.23	61.58	62.99	69.94	71.93	79.69	81.70	92.11	97.82	107.28	129.95	172.71	196.68	312.66	389.37
60-65"	61.58	63.01	64.52	72.09	74.19	82.63	84.76	96.07	102.19	112.52	137.03	183.35	209.29	334.83	417.98
65-70"	62.99	64.42	65.99	74.21	76.46	85.51	87.78	99.98	106.56	117.67	144.05	193.97	221.81	356.83	446.19
70-75"	64.11	65.89	67.48	76.34	78.66	88.39	90.75	103.89	110.95	122.81	151.04	204.34	234.19	378.67	474.22
75-80"	65.70	67.29	68.99	78.39	80.87	91.22	93.71	107.74	115.25	127.88	157.91	214.67	246.49	400.26	501.96
80-85"	67.02	68.70	70.42	80.48	83.04	94.06	96.64	111.53	119.48	132.89	164.77	224.96	258.68	421.66	529.53
85-90"	68.37	70.05	71.87	82.51	85.22	96.87	99.58	115.32	123.68	137.86	171.56	235.14	270.77	442.90	556.79
90-95"	69.67	71.43	73.30	84.58	87.33	99.63	102.46	119.10	127.92	142.84	178.26	245.20	282.71	463.89	583.84

Vulcanized Ethylene Propylene O'Rings

CROSS SECTION DIAMETER AVAILABLE										
O'Ring	1/16"	3/32"		1/8"		3/16"		1/4"		5/16"
I.D.	.070"	.093"	.103"	.125"	.139"	.187"	.210"	.250"	.275"	.312"
2-3"	16.17	16.17	16.17	16.17	16.17	16.32	16.40	16.51	16.61	16.87
3-4"	16.17	16.17	16.17	16.28	16.34	16.64	16.78	16.87	17.04	17.44
4-5"	16.17	16.17	16.28	16.51	16.57	16.99	17.10	17.27	17.42	17.94
5-6"	16.17	16.28	16.44	16.78	16.82	17.27	17.44	17.65	17.82	18.43
6-7"	16.17	16.44	16.64	16.99	17.10	17.61	17.77	18.22	18.22	18.93
7-8"	16.28	16.57	16.82	17.18	17.33	17.94	18.17	18.60	18.60	19.40
8-9"	16.44	16.78	17.01	17.44	17.61	18.20	18.49	18.74	19.04	19.88
9-10"	16.55	16.87	17.18	17.67	17.82	18.55	18.83	19.10	19.40	20.31
10-12"	16.89	17.21	17.54	18.11	18.28	19.40	19.40	19.76	20.10	21.17
12-14"	17.27	17.71	18.11	18.77	18.93	19.82	20.22	20.62	21.03	22.27
14-16"	17.67	18.15	18.62	19.34	19.59	20.62	21.03	21.49	21.93	23.33
16-18"	18.05	18.62	19.15	19.95	20.22	21.40	21.89	22.33	22.88	24.44
18-20"	18.43	19.15	19.65	20.56	20.84	22.16	22.71	23.28	23.79	25.56
20-22"	18.87	19.59	20.18	21.15	21.45	22.88	23.50	24.11	24.72	26.66
22-24"	19.23	20.01	20.67	21.76	22.10	23.66	24.32	24.99	25.65	27.72
24-26"	19.67	20.48	21.17	22.33	22.73	24.40	25.12	25.84	26.60	28.84
26-28"	20.05	20.94	21.72	22.99	23.37	25.16	25.94	26.68	27.49	29.93

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Vulcanized Ethylene Propylene O'Rings

CROSS SECTION DIAMETER AVAILABLE										
O'Ring	1/16"	3/32"		1/8"		3/16"		1/4"		5/16"
I.D.	.070"	.093"	.103"	.125"	.139"	.187"	.210"	.250"	.275"	.312"
28-30"	20.45	21.43	22.23	23.60	24.00	25.90	26.72	27.55	28.43	31.05
30-32"	20.84	21.89	22.73	24.17	24.64	26.68	27.53	28.44	29.34	32.15
32-34"	21.66	22.78	23.77	25.42	25.90	28.22	29.20	30.17	31.16	34.28
34-36"	37.19	39.05	40.54	43.12	43.97	47.60	49.12	50.75	52.34	57.36
36-38"	22.04	23.28	24.32	25.99	26.54	28.98	30.00	31.09	32.05	35.42
38-40"	22.44	23.68	24.78	26.66	27.21	29.72	30.78	31.94	33.00	36.48
40-42"	22.84	24.15	25.33	26.94	27.82	30.53	31.66	32.81	33.97	37.58
42-44"	23.28	24.64	25.84	27.82	28.44	31.20	32.45	33.67	34.89	38.71
44-46"	23.66	25.06	26.37	28.44	29.09	32.00	33.27	34.51	35.82	39.81
46-48"	24.04	25.56	26.89	29.00	29.72	32.78	34.11	35.42	36.71	40.87
48-50"	24.44	25.99	27.44	29.66	30.33	33.54	34.77	36.27	37.64	41.97
50-53"	25.04	26.72	28.16	30.59	31.31	34.70	36.16	37.58	39.05	43.61
53-56"	25.65	27.44	28.92	31.45	32.23	35.82	37.34	38.90	40.43	45.22
56-59"	26.26	28.10	29.72	32.40	33.25	36.98	38.55	40.23	41.78	46.89
59-62"	26.87	28.79	30.53	33.31	34.14	38.10	39.81	41.50	43.21	48.55
62-65"	27.48	29.49	31.26	34.22	35.11	39.26	41.04	42.81	44.56	50.22
65-68"	28.05	30.21	32.00	35.11	36.06	40.34	42.20	44.01	45.94	51.78
68-71"	28.62	30.93	32.81	36.01	37.00	41.50	43.44	45.39	47.33	53.47
71-74"	29.26	31.56	33.59	36.94	37.98	42.70	44.67	46.72	48.72	55.08
74-77"	29.83	32.26	34.33	37.81	38.93	43.84	45.93	48.03	50.11	56.78
77-80"	30.48	32.95	35.11	38.78	39.83	44.98	47.14	49.36	50.43	58.33
80-83"	31.05	33.67	35.89	39.67	40.81	46.06	48.34	50.66	52.88	60.08
83-86"	31.66	34.32	36.67	40.59	41.73	47.26	49.54	51.93	54.30	61.66
86-89"	32.23	35.06	37.45	41.50	42.75	48.38	50.77	53.26	55.65	63.33
89-92"	32.83	35.76	38.21	42.39	43.66	49.50	52.02	54.55	57.00	64.95
92-95"	35.32	36.43	38.99	43.32	44.67	50.66	53.28	55.86	58.43	66.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 8-XXX - O'Rings (001....139)

Ref. Dash Number	NBR 90A Nitrile 8-xxx/C $	AU 95A Urethane 8-xxx/U $	V.PTFE PTFE 8-xxxSD/T $	V.PTFE PTFE 8-xxxST/T $	HT2022 Poly-Orange 8-xxx/P $
	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
-001	O/R	O/R	O/R	O/R	O/R
-002	O/R	O/R	O/R	O/R	O/R
-003	O/R	O/R	O/R	O/R	O/R
-004	0.52*	O/R	1.68	2.69*	O/R
-005	0.52*	O/R	1.63*	2.69	1.53
-006	0.42	1.66*	1.63*	2.69	1.43
-007	0.41	1.66*	0.99	2.82	1.47
-008	0.42	1.66*	1.00	2.82	1.58
-009	0.42	1.66*	1.03	2.82	1.50
-010	0.42	1.66	1.20	1.34	1.64*
-011	0.42	1.22	1.20	2.95	1.55
-012	0.46	1.22	1.31	2.95	1.69
-013	0.48	1.22	1.39	2.95	1.60
-014	0.48	1.22	1.43	3.03	1.74
-015	0.50	1.22	1.52	3.03	1.78
-016	0.50	1.44	1.60	1.66	1.79
-017	0.50	1.44	1.63	3.18	1.81
-018	0.52	1.44	1.68	3.26	1.82
-019	0.52	1.44	1.72	3.26	O/R
-020	0.55	1.44	1.79	3.32	1.85
-021	0.59	1.44	2.00	3.32*	1.86
-022	0.59	1.44	2.13	3.32*	O/R
-023	0.63*	1.44	2.20	3.32*	O/R
-024	0.64*	1.44	2.34*	3.50*	O/R
-025	0.64	1.44	2.41	3.50*	O/R
-026	0.67	1.60	2.57	3.86*	O/R
-027	0.71*	1.60	2.67*	4.45*	O/R
-028	0.71	1.60	2.87	4.63*	O/R
-029	0.76	1.60	19.31	4.59	O/R
-030	0.83	1.60	O/R	5.84*	O/R
-031	0.87	1.60	O/R	O/R	O/R
-032	0.88	1.60	7.16	O/R	O/R
-033	1.01	1.66	7.16	10.60*	O/R
-034	1.13	1.66	7.16	O/R	O/R
-035	1.13*	1.66	O/R	O/R	O/R
-036	1.20	1.66	7.16	O/R	O/R
-037	1.25	1.66	O/R	O/R	O/R
-038	1.32	1.66	O/R	5.88	O/R
-039	1.39	1.77	O/R	O/R	O/R
-040	1.62	1.87	O/R	O/R	O/R
-041	2.00	1.89	O/R	O/R	O/R
-042	2.00*	1.91	10.10	O/R	O/R
-043	2.00*	1.94*	O/R	O/R	O/R
-044	2.79*	2.08	O/R	O/R	O/R

Ref. Dash Number	NBR 90A Nitrile 8-xxx/C $	AU 95A Urethane 8-xxx/U $	V.PTFE PTFE 8-xxxSD/T $	V.PTFE PTFE 8-xxxST/T $	HT2022 Poly-Orange 8-xxx/P $
	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
-045	2.79*	2.16*	O/R	O/R	O/R
-046	2.98	2.26*	O/R	O/R	O/R
-047	2.98*	2.34*	O/R	O/R	O/R
-048	3.39*	2.42*	O/R	O/R	O/R
-049	3.39*	2.51	O/R	O/R	O/R
-050	3.39*	2.57*	O/R	O/R	O/R
-102	0.42*	O/R	O/R	O/R	O/R
-103	0.42*	O/R	O/R	O/R	O/R
-104	0.42	1.29*	O/R	O/R	O/R
-105	0.42	1.29*	O/R	O/R	O/R
-106	0.42*	1.29*	O/R	O/R	O/R
-107	0.42*	1.29*	O/R	O/R	O/R
-108	0.42	1.29	2.57	O/R	O/R
-109	0.46	1.29	5.37	O/R	O/R
-110	0.46	1.29	2.00	2.99	1.68*
-111	0.46*	1.29	2.13	3.18	1.69*
-112	0.46	1.29	2.26	3.35	1.71*
-113	0.48	1.29	2.46	3.69	1.74
-114	0.48	1.22	2.59	3.86	1.75*
-115	0.48	1.22	2.74	4.10	1.90
-116	0.50	1.22	2.85	4.10	1.93
-117	0.52	1.29	2.85	4.24	1.81
-118	0.55	1.29	3.22	4.79	1.96
-119	0.55	1.29	3.43	5.13	1.83
-120	0.59	1.39	3.48	5.20	1.85
-121	0.63	1.39	3.48	5.20	2.00
-122	0.64	1.39	3.48	5.20*	O/R
-123	0.64	1.39	3.77	5.65	2.03
-124	0.67	1.44	3.77	5.65	2.04
-125	0.70	1.44	3.84	5.72*	2.06*
-126	0.76	1.60	3.84	5.72*	2.09
-127	0.74	1.60	3.84	5.72*	2.13
-128	0.76	1.60*	3.91	5.88*	O/R
-129	0.81	1.60	4.03	6.00	O/R
-130	0.83*	1.60	4.13	6.15*	2.17*
-131	0.87	1.60	4.13	6.15	2.17
-132	0.87	1.60	4.30	6.43*	O/R
-133	0.88	1.60	4.30	6.43*	2.06
-134	0.90	1.60	4.59	6.86*	2.24
-135	0.90	1.60	4.72	7.05*	O/R
-136	1.01	1.60	4.97	7.43*	O/R
-137	1.01	1.60	5.24	7.78	O/R
-138	1.09*	1.60	5.67	8.46*	O/R
-139	1.11	1.60	6.08*	O/R	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref. Dash Number	NBR 90A Nitrile 8-xxx/C $	AU 95A Urethane 8-xxx/U $	V.PTFE PTFE 8-xxxSD/T $	V.PTFE PTFE 8-xxxST/T $	HT2022 Poly-Orange 8-xxx/P $
	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
-140	1.13	1.63	6.08	O/R	O/R
-141	1.13	1.63	6.41	O/R	O/R
-142	1.20	1.63*	6.92	O/R	O/R
-143	1.25	1.66	6.92	1.78*	O/R
-144	1.26	1.77	7.10	10.44	O/R
-145	1.26	1.77	7.18	O/R	O/R
-146	1.33	1.77	7.27	O/R	O/R
-147	1.36	1.77	7.37	O/R	O/R
-148	1.36	1.77	7.44	5.89	O/R
-149	1.37	1.77	7.54	O/R	O/R
-150	1.54	1.87	8.35	O/R	O/R
-151	1.69	1.87	8.35	O/R	O/R
-152	2.25	2.47	8.62	O/R	O/R
-153	2.58	2.52	O/R	10.96*	O/R
-154	3.12	3.90	15.11	O/R	O/R
-155	3.44	3.95	18.17	O/R	O/R
-156	4.03	3.98	19.31	O/R	O/R
-157	4.10	3.98	O/R	O/R	O/R
-158	4.34	4.23	24.30	O/R	O/R
-159	4.44	4.30	O/R	O/R	O/R
-160	4.55	4.38	27.85*	O/R	O/R
-161	4.63*	4.47*	O/R	O/R	O/R
-162	4.73	4.62	O/R	23.37*	O/R
-163	5.91	4.99	O/R	O/R	O/R
-164	5.91*	5.32	23.83	O/R	O/R
-165	5.91*	5.37	O/R	O/R	O/R
-166	5.91	5.47	O/R	O/R	O/R
-167	5.91*	5.53	O/R	O/R	O/R
-168	5.91*	5.58	O/R	O/R	O/R
-169	7.21*	5.66	O/R	O/R	O/R
-170	7.56*	5.69*	38.62*	O/R	O/R
-171	8.29*	5.76	O/R	O/R	O/R
-172	6.22*	5.85*	O/R	O/R	O/R
-173	6.47*	5.89	O/R	O/R	O/R
-174	6.22*	5.95*	O/R	O/R	O/R
-175	6.47*	6.01*	O/R	O/R	O/R
-176	9.74*	6.14*	O/R	O/R	O/R
-177	10.11*	6.77	O/R	O/R	O/R
-178	10.40*	7.75*	O/R	O/R	O/R
-201	0.43	1.17*	O/R	O/R	O/R
-202	0.45	1.17*	6.66*	O/R	O/R
-203	0.45	1.18	6.66*	O/R	O/R
-204	0.45*	1.20	6.66*	O/R	O/R
-205	0.48	1.22	6.66*	O/R	O/R

Ref. Dash Number	NBR 90A Nitrile 8-xxx/C $	AU 95A Urethane 8-xxx/U $	V.PTFE PTFE 8-xxxSD/T $	V.PTFE PTFE 8-xxxST/T $	HT2022 Poly-Orange 8-xxx/P $
	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
-206	0.48	1.22	2.77	1.76*	O/R
-207	0.48	1.22	4.58	O/R	O/R
-208	0.50	1.22	8.70*	9.37	O/R
-209	0.50	1.22	6.66	O/R	O/R
-210	0.50	1.29	2.59	3.86	1.43*
-211	0.52	1.29	2.85	4.24	1.44
-212	0.55	1.29	2.85	4.44	1.47
-213	0.55	1.29	2.95	4.44	1.48*
-214	0.59	1.29	2.99	4.45	1.50*
-215	0.59	1.39	2.99	4.45	1.53
-216	0.63	1.39	2.99	4.45	1.54
-217	0.64	1.39	3.32	4.96	1.55*
-218	0.64	1.39	2.39	5.43	1.57
-219	0.70	1.39	4.04	5.43	1.60*
-220	0.74	1.44	2.25	5.65*	O/R
-221	0.73	1.44	3.77	5.65*	O/R
-222	0.76	1.44	4.03	6.00*	O/R
-223	0.83	1.48	4.38	O/R	O/R
-224	0.90	1.48	3.73	6.53*	1.82
-225	1.01	1.60	3.87	6.80*	O/R
-226	1.06	1.60	3.94	6.80*	1.85
-227	1.13	1.60	4.10	7.22*	2.18
-228	1.20	1.60	4.13	7.99	2.18
-229	1.27	1.60	5.71	8.89*	O/R
-230	1.33	1.81	6.19	9.17*	2.24
-231	1.39	1.81	6.53	5.11*	O/R
-232	1.58	1.81	6.71	13.65*	2.27
-233	1.60	1.81	6.76	O/R	2.28
-234	1.74	1.98	7.10	O/R	O/R
-235	1.90	1.98	7.14	12.87*	O/R
-236	1.93	1.98	7.24	O/R	2.46
-237	1.95	2.29	7.44	O/R	O/R
-238	2.00	2.29	7.66	O/R	2.93
-239	2.00	2.80	7.83	13.29*	O/R
-240	2.21	2.86	7.84	29.43*	3.39
-241	2.25	2.86	8.49	13.29*	O/R
-242	2.95	2.86	8.89	O/R	3.53
-243	2.58	2.86	9.40	15.27*	O/R
-244	2.42	3.51	8.40	O/R	3.37
-245	2.74	3.51	8.44	14.42*	3.40
-246	2.98	4.00	8.57	8.65	3.44
-247	3.12	4.00	8.81	8.90*	O/R
-248	3.32	4.24	10.28	10.40*	4.17
-249	3.36	4.43	11.14	16.47*	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Series 8-XXX - O'Rings (250....361)

Ref. Dash Number	NBR 90A Nitrile 8-xxx/C $	AU 95A Urethane 8-xxx/U $	V.PTFE PTFE 8-xxxSD/T $	V.PTFE PTFE 8-xxxST/T $	HT2022 Poly-Orange 8-xxx/P $
	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
-250	3.74	4.62	12.09	12.21*	4.51*
-251	3.91	4.98	O/R	12.32*	O/R
-252	4.20	5.25	12.77	O/R	4.28
-253	4.34	5.55	12.90	13.05*	O/R
-254	4.61	5.77	13.56	13.71*	O/R
-255	4.63	5.98	14.29	O/R	O/R
-256	4.94	6.27	15.04	15.22*	O/R
-257	5.08	6.60	16.24	O/R	O/R
-258	5.26	6.80	16.59	16.77*	4.89
-259	5.57	6.80	17.71	O/R	4.97
-260	5.70	7.12	36.39	O/R	O/R
-261	6.03	7.41	21.59	O/R	5.14
-262	6.59	7.55	22.17	O/R	16.32*
-263	6.92	7.88	23.53	44.18*	O/R
-264	7.95	8.44	26.29	O/R	O/R
-265	8.02	8.88	29.32	O/R	O/R
-266	8.48	10.31	29.56	O/R	O/R
-267	8.86	10.48	31.55	O/R	O/R
-268	9.10	10.76	32.20	O/R	O/R
-269	9.30	10.76	34.88	25.40*	O/R
-270	9.74*	11.05	38.32	O/R	O/R
-271	10.15	11.30	O/R	O/R	O/R
-272	10.51	11.43	O/R	O/R	O/R
-273	10.91*	11.53	44.20	O/R	O/R
-274	11.28	11.61	46.33*	50.64*	O/R
-275	11.89	11.74	50.01	O/R	O/R
-276	11.98	11.86	O/R	O/R	O/R
-277	12.14	11.90	54.59	O/R	O/R
-278	12.26*	11.97	63.22	O/R	O/R
-279	12.32	12.03*	63.22	O/R	O/R
-280	12.43*	12.38*	67.73	O/R	O/R
-281	12.61	13.42	83.17	O/R	O/R
-282	12.67	14.39*	81.12*	O/R	O/R
-283	12.77	15.48*	77.40	O/R	O/R
-284	12.95*	O/R	O/R	O/R	O/R
-309	0.50	1.22	O/R	O/R	O/R
-310	0.55	1.22	5.98*	O/R	O/R
-311	0.59	1.22	O/R	O/R	O/R
-312	0.59	1.29*	5.98*	O/R	O/R
-313	0.63	1.29*	O/R	O/R	O/R
-314	0.63	1.39	O/R	O/R	O/R
-315	0.70	1.39*	O/R	O/R	O/R
-316	0.64	1.39	O/R	O/R	O/R
-317	0.67	1.39*	O/R	O/R	O/R

Ref. Dash Number	NBR 90A Nitrile 8-xxx/C $	AU 95A Urethane 8-xxx/U $	V.PTFE PTFE 8-xxxSD/T $	V.PTFE PTFE 8-xxxST/T $	HT2022 Poly-Orange 8-xxx/P $
	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
-318	0.73	1.39	6.94	O/R	O/R
-319	0.73	1.39	O/R	O/R	O/R
-320	0.76	1.39	6.94*	O/R	O/R
-321	0.87	1.39	O/R	O/R	O/R
-322	0.88	1.39	9.58	O/R	O/R
-323	0.91	1.48	6.89	O/R	O/R
-324	1.01	1.48	6.94	O/R	O/R
-325	1.06	1.48	6.94	11.31*	O/R
-326	1.13	1.60	7.19	11.31*	O/R
-327	1.19	1.60	7.23	12.87*	O/R
-328	1.27	1.60	7.85	8.39*	O/R
-329	1.44	1.60	7.87	13.52*	O/R
-330	1.54	1.60	7.90	13.63*	O/R
-331	1.58	1.60	8.00	O/R	O/R
-332	1.62	1.31	8.01	8.62*	O/R
-333	1.69	1.63	8.06	14.84*	O/R
-334	1.74	1.66	8.06	15.16*	O/R
-335	1.89	1.81	8.49	O/R	O/R
-336	1.89	1.81	8.84	16.69*	O/R
-337	2.00	1.91	9.69	O/R	O/R
-338	2.00	1.91	9.78	17.03*	4.17
-339	2.11	2.04	9.85	O/R	4.42
-340	3.98	2.18	10.02	17.33*	O/R
-341	2.27	2.18	10.11	18.01*	4.94
-342	2.42	2.38	10.19	18.46*	5.22
-343	2.72	2.67	10.53	O/R	5.49*
-344	2.98	2.99	10.87	21.22*	5.75
-345	3.09	3.24	11.23	10.68*	5.99
-346	3.09	3.47	11.56	23.88*	6.26
-347	3.11	3.63	11.90	O/R	O/R
-348	3.39	3.86	12.25	O/R	6.79*
-349	3.35	4.00	12.74	O/R	7.06
-350	3.65	4.12	19.11	26.80*	7.32
-351	3.71	4.62	21.16	O/R	O/R
-352	3.75	4.69	17.46	O/R	7.85
-353	4.00	4.75	23.91	O/R	O/R
-354	4.33	4.94	17.46	27.45*	8.36
-355	4.62	5.25	26.90	O/R	O/R
-356	4.72	5.41	O/R	39.45*	O/R
-357	5.11	5.94	17.46	O/R	O/R
-358	5.21	5.94	19.59	O/R	7.95
-359	5.26*	6.27	32.98*	O/R	9.55*
-360	5.38	6.57	19.59	O/R	O/R
-361	5.47	7.01	19.59	O/R	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
Ref. Dash Number	**NBR 90A** Nitrile 8-xxx/C $	**AU 95A** Urethane 8-xxx/U $	**V.PTFE** PTFE 8-xxxSD/T $	**V.PTFE** PTFE 8-xxxST/T $	**HT2022** Poly-Orange 8-xxx/P $
-362	6.22	6.73	31.69	42.03*	10.46*
-363	6.75	7.01	26.29	O/R	10.74
-364	6.82	7.01	26.29	O/R	O/R
-365	7.25	7.01	26.29	O/R	O/R
-366	7.25	7.01	O/R	O/R	O/R
-367	7.25	7.01	26.29	44.65*	9.45*
-368	7.25*	7.01	34.62	O/R	O/R
-369	7.69	7.14	O/R	48.00*	O/R
-370	7.69	7.42	31.84*	O/R	O/R
-371	7.69	7.14	34.62	O/R	O/R
-372	7.83	7.57	34.62	O/R	8.58*
-373	7.83*	7.57	50.60	O/R	O/R
-374	9.65	7.87	36.66*	O/R	O/R
-375	9.65	7.87	O/R	O/R	O/R
-376	10.01*	7.87	61.37	O/R	O/R
-377	10.01	7.87	39.18	O/R	O/R
-378	10.01	8.32	42.84	O/R	O/R
-379	10.14	9.19	O/R	O/R	O/R
-380	10.14	9.30	42.84	O/R	O/R
-381	10.14	9.44	74.15*	O/R	O/R
-382	10.36	9.62*	76.25*	O/R	O/R
-383	10.36	9.70	61.80*	O/R	O/R
-384	10.36*	9.89	103.65*	O/R	O/R
-385	10.88	10.26*	149.51*	O/R	O/R
-386	10.93*	10.34*	50.01*	O/R	O/R
-387	11.48*	10.70*	O/R	O/R	O/R
-388	12.05*	11.43*	70.51*	O/R	O/R
-389	12.64*	12.17*	O/R	O/R	O/R
-390	13.27*	13.42*	O/R	O/R	O/R
-391	13.94	13.03*	O/R	O/R	O/R
-392	14.64*	17.34*	O/R	O/R	O/R
-393	15.39*	18.06*	O/R	O/R	O/R
-394	16.14*	18.32*	O/R	O/R	O/R
-395	16.95*	O/R	O/R	O/R	O/R
-425	4.40	4.12	23.28	33.57	O/R
-426	4.48*	4.15	23.74	26.87*	O/R
-427	4.55	5.30	24.21	33.87*	O/R
-428	4.61	5.33	24.64	O/R	O/R
-429	4.66	5.33	25.10	O/R	O/R
-430	5.32	5.40	25.58	39.57*	O/R
-431	5.68	5.49	26.21	O/R	O/R
-432	5.78	5.69	26.83*	O/R	O/R
-433	5.98	5.95	27.47	49.42*	9.14

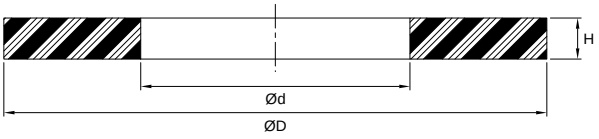
	F:-30 to 250 C:-34 to 121	F:-40 to 250 C:-44 to 121	F:-15 to 400 C:-26 to 205	F:-15 to 400 C:-26 to 205	F:-60 to 275 C:-51 to 135
Ref. Dash Number	**NBR 90A** Nitrile 8-xxx/C $	**AU 95A** Urethane 8-xxx/U $	**V.PTFE** PTFE 8-xxxSD/T $	**V.PTFE** PTFE 8-xxxST/T $	**HT2022** Poly-Orange 8-xxx/P $
-434	5.98	6.23	28.11	O/R	O/R
-435	6.01	6.42	28.73	O/R	O/R
-436	6.12	6.46	29.30*	53.86*	O/R
-437	6.61	6.63	29.87	O/R	O/R
-438	7.78	6.77	30.45	O/R	O/R
-439	7.91	6.96	31.02	O/R	9.52
-440	7.98	7.54	31.59	58.80*	9.63
-441	8.46	7.87	33.90	O/R	9.72
-442	8.86	8.23	36.27	O/R	O/R
-443	9.35	9.75	38.58	O/R	O/R
-444	9.41	12.97	40.94	O/R	9.94
-445	9.49	12.55	43.28	O/R	22.79*
-446	9.56	16.76	43.94	44.44	10.27*
-447	9.63	17.43	44.60	O/R	O/R
-448	9.67	17.68	45.28	O/R	10.12
-449	9.80	17.68	58.94	O/R	22.88
-450	9.87	19.18	63.95	O/R	10.29*
-451	9.94	19.18	64.83	O/R	69.69*
-452	10.00	19.18	75.91	O/R	O/R
-453	10.07	19.18	79.08	79.95*	11.28*
-454	10.16*	19.18	85.40	O/R	O/R
-455	10.28	19.18	91.74	O/R	O/R
-456	10.36*	19.18	104.38	O/R	O/R
-457	10.44*	19.40*	117.03	O/R	O/R
-458	10.68*	20.75	118.63	O/R	39.75*
-459	10.88*	21.93*	120.17	O/R	O/R
-460	11.03	22.62	121.77	131.14*	O/R
-461	11.07	22.83*	160.25*	O/R	O/R
-462	11.12	23.01*	193.22	O/R	O/R
-463	11.26	23.49*	O/R	O/R	O/R
-464	11.61	23.89*	256.14	O/R	O/R
-465	11.89	24.87*	O/R	O/R	O/R
-466	12.40	25.77*	O/R	O/R	O/R
-467	13.15	26.49*	150.44*	O/R	O/R
-468	21.50	26.78*	164.79*	O/R	O/R
-469	14.35*	27.91*	167.70*	O/R	O/R
-470	15.26	29.73*	O/R	O/R	O/R
-471	16.02*	31.36*	O/R	O/R	O/R
-472	16.91	33.16*	O/R	O/R	O/R
-473	17.74*	34.88*	O/R	O/R	O/R
-474	18.62*	36.71*	O/R	O/R	O/R
-475	19.56	37.57*	O/R	O/R	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/N, ST/N, SD/T, ST/T - Back-up Rings - Inch



Standard Material	Temperature Range
Nylon	-40°F to +250°F (-40°C to +121°C)
V.PTFE	-320°F to +450°F (-196°C to +232°C)



Back-up rings are auxiliary devices used in conjunction with standard seals such as O'Rings and U-Cup type seals.They are manufactured out of nylon or PTFE material, supplied split and solid version.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
0.119" - Cross Section - 0.119"						
BU11912768-050ST/T	**12.768**	**13.006**	12.768	13.006	0.050	94.08
0.123" - Cross Section - 0.123"						
BU12301875-045ST/T*	**1.785**	**2.031**	1.785	2.031	0.045	22.80
1/8" - Cross Section - 0.125"						
BU12500625-062ST/N	**0.625**	**0.875**	0.625	0.875	0.062	20.75
BU12500750-062ST/N	**0.750**	**1.000**	0.750	1.000	0.062	20.75
BU12500875-062ST/N*	**0.875**	**1.125**	0.875	1.125	0.062	21.37
BU12501000-062ST/N*	**1.000**	**1.250**	1.000	1.250	0.062	21.66
BU12501000-125ST/N	**1.000**	**1.250**	1.000	1.250	0.125	22.39
BU12501125-125ST/N*	**1.125**	**1.375**	1.125	1.375	0.125	22.39
BU12501250-062ST/N	**1.250**	**1.500**	1.250	1.500	0.062	21.66
BU12501250-125ST/N	**1.250**	**1.500**	1.250	1.500	0.125	22.39
BU12501500-062ST/N*	**1.500**	**1.750**	1.500	1.750	0.062	21.66
BU12501500-125ST/N	**1.500**	**1.750**	1.500	1.750	0.125	22.39
BU12501750-062ST/N	**1.750**	**2.000**	1.750	2.000	0.062	21.66
BU12501750-125ST/N	**1.750**	**2.000**	1.750	2.000	0.125	22.39
BU12502000-062ST/N*	**2.000**	**2.250**	2.000	2.250	0.062	21.66
BU12502000-125ST/N*	**2.000**	**2.250**	2.000	2.250	0.125	22.39

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
1/8" - Cross Section - 0.125"						
BU12502250-062ST/N	**2.250**	**2.500**	2.250	2.500	0.062	21.66
BU12502625-125ST/N*	**2.625**	**2.875**	2.625	2.875	0.125	24.19
BU12502750-070ST/N*	**2.750**	**3.000**	2.750	3.000	0.070	22.88
BU12502750-125ST/N	**2.750**	**3.000**	2.750	3.000	0.125	24.19
BU12503000-062ST/N*	**3.000**	**3.250**	3.000	3.250	0.062	23.28
BU12503000-125ST/N	**3.000**	**3.250**	3.000	3.250	0.125	24.80
BU12503250-125ST/N*	**3.250**	**3.500**	3.250	3.500	0.125	24.80
BU12503250-142SD/T	**3.250**	**3.500**	3.250	3.500	0.142	40.76
BU12503482-155SD/T*	**3.482**	**3.732**	3.482	3.732	0.155	36.63
BU12503735-150SD/T	**3.735**	**3.985**	3.735	3.985	0.150	39.93
BU12504000-125ST/N	**4.000**	**4.250**	4.000	4.250	0.125	26.31
0.128" - Cross Section - 0.128"						
BU12803972-155SD/T	**3.972**	**4.230**	3.972	4.230	0.155	29.13
0.130" - Cross Section - 0.130"						
BU13003015-145SD/T*	**3.015**	**3.275**	3.015	3.275	0.145	45.89
0.145" - Cross Section - 0.145"						
BU14509685-062SD/T*	**9.685**	**9.975**	9.685	9.975	0.062	50.46
0.150" - Cross Section - 0.150"						
BU15003995-062SD/T*	**3.995**	**4.295**	3.995	4.295	0.062	25.30
BU15005210-070SD/N	**5.210**	**5.510**	5.521	5.510	0.070	26.20
BU15013850-068SD/T*	**13.850**	**14.150**	13.850	14.150	0.068	106.57
0.156" - Cross Section - 0.156"						
BU15601250-125ST/T*	**1.250**	**1.562**	1.250	1.562	0.125	26.49
0.170" - Cross Section - 0.170"						
BU17008094-058SD/T	**8.094**	**8.210**	8.094	8.210	0.058	32.50
BU17009150-075SD/T*	**9.150**	**9.485**	9.150	9.485	0.075	80.34
0.180" - Cross Section - 0.180"						
BU18007115-095SD/T*	**7.115**	**7.475**	7.115	7.475	0.095	35.34
BU18007720-095SD/T*	**7.720**	**8.080**	7.720	8.080	0.095	46.57
3/16" - Cross Section - 0.187"						
BU18700750-187ST/T	**0.750**	**1.125**	0.750	1.125	0.187	28.39
BU18701000-062ST/N*	**1.000**	**1.375**	1.000	1.375	0.062	21.66
BU18701000-070ST/N*	**1.000**	**1.375**	1.000	1.375	0.070	21.77
BU18701000-125ST/N	**1.000**	**1.375**	1.000	1.375	0.125	22.39
BU18701125-062ST/N	**1.125**	**1.500**	1.125	1.500	0.062	21.77
BU18701125-070ST/N*	**1.125**	**1.500**	1.125	1.500	0.070	21.77

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SD/N, ST/N, SD/T, ST/T series - NYLON, V.PTFE

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
3/16" - Cross Section - 0.187"						
BU18701125-125ST/N*	**1.125**	**1.500**	1.125	1.500	0.125	22.39
BU18701250-062ST/N	**1.250**	**1.625**	1.250	1.625	0.062	21.77
BU18701250-070ST/N*	**1.250**	**1.625**	1.250	1.625	0.070	21.77
BU18701250-125ST/N	**1.250**	**1.625**	1.250	1.625	0.125	22.39
BU18701375-062ST/N	**1.375**	**1.750**	1.375	1.750	0.062	21.77
BU18701375-070ST/N	**1.375**	**1.750**	1.375	1.750	0.070	21.77
BU18701375-125ST/N	**1.375**	**1.750**	1.375	1.750	0.125	22.39
BU18701500-062ST/N	**1.500**	**1.875**	1.500	1.875	0.062	21.77
BU18701500-070ST/N	**1.500**	**1.875**	1.500	1.875	0.070	21.77
BU18701500-125ST/N	**1.500**	**1.875**	1.500	1.875	0.125	22.39
BU18701625-062ST/N	**1.625**	**2.000**	1.625	2.000	0.062	21.77
BU18701625-070ST/N	**1.625**	**2.000**	1.625	2.000	0.070	21.77
BU18701625-125ST/N*	**1.625**	**2.000**	1.625	2.000	0.125	22.39
BU18701750-062ST/N	**1.750**	**2.125**	1.750	2.125	0.062	21.77
BU18701750-070ST/N	**1.750**	**2.125**	1.750	2.125	0.070	21.77
BU18701750-125ST/N	**1.750**	**2.125**	1.750	2.125	0.125	22.39
BU18701875-062ST/N	**1.875**	**2.250**	1.875	2.250	0.062	21.77
BU18701875-070ST/N	**1.875**	**2.250**	1.875	2.250	0.070	21.77
BU18701875-125ST/N	**1.875**	**2.250**	1.875	2.250	0.125	22.39
BU18702000-062ST/N	**2.000**	**2.375**	2.000	2.375	0.062	21.77
BU18702000-070ST/N	**2.000**	**2.375**	2.000	2.375	0.070	21.77
BU18702000-105ST/N*	**2.000**	**2.375**	2.000	2.375	0.105	22.39
BU18702000-125ST/N	**2.000**	**2.375**	2.000	2.375	0.125	22.39
BU18702125-062ST/N	**2.125**	**2.500**	2.125	2.500	0.062	21.77
BU18702125-070ST/N	**2.125**	**2.500**	2.125	2.500	0.070	21.77
BU18702125-125ST/N*	**2.125**	**2.500**	2.125	2.500	0.125	22.39
BU18702250-070ST/N	**2.250**	**2.625**	2.250	2.625	0.070	22.88
BU18702250-125ST/N*	**2.250**	**2.625**	2.250	2.625	0.125	24.28
BU18702375-062ST/N	**2.375**	**2.750**	2.375	2.750	0.062	22.88
BU18702375-070ST/N*	**2.375**	**2.750**	2.375	2.750	0.070	22.88
BU18702375-125ST/N*	**2.375**	**2.750**	2.375	2.750	0.125	24.28
BU18702500-062ST/N*	**2.500**	**2.875**	2.500	2.875	0.062	22.88
BU18702500-070ST/N*	**2.500**	**2.875**	2.500	2.875	0.070	22.88
BU18702500-125ST/N	**2.500**	**2.875**	2.500	2.875	0.125	24.28
BU18702625-070ST/N	**2.625**	**3.000**	2.625	3.000	0.070	22.88
BU18702625-125ST/N	**2.625**	**3.000**	2.625	3.000	0.125	24.28
BU18702750-062ST/N	**2.750**	**3.125**	2.750	3.125	0.062	24.09
BU18702750-070ST/N*	**2.750**	**3.125**	2.750	3.125	0.070	24.09
BU18702750-125ST/N	**2.750**	**3.125**	2.750	3.125	0.125	26.09
BU18702875-062ST/N	**2.875**	**3.250**	2.875	3.250	0.062	24.09
BU18702875-125ST/N	**2.875**	**3.250**	2.875	3.250	0.125	26.09
BU18703000-062ST/N	**3.000**	**3.375**	3.000	3.375	0.062	24.09
BU18703000-070ST/N	**3.000**	**3.375**	3.000	3.375	0.070	24.09
BU18703000-125ST/N	**3.000**	**3.375**	3.000	3.375	0.125	26.09

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Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
3/16" - Cross Section - 0.187"						
BU18703125-125ST/N*	**3.125**	**3.500**	3.125	3.500	0.125	26.09
BU18703500-062ST/N*	**3.500**	**3.875**	3.500	3.875	0.062	24.09
BU18703500-070ST/N*	**3.500**	**3.875**	3.500	3.875	0.070	24.09
BU18703500-125ST/N*	**3.500**	**3.875**	3.500	3.875	0.125	26.09
BU18703625-062ST/N*	**3.625**	**4.000**	3.625	4.000	0.062	24.09
BU18703625-070ST/N	**3.625**	**4.000**	3.625	4.000	0.070	24.09
BU18703625-125ST/N*	**3.625**	**4.000**	3.625	4.000	0.125	26.09
BU18704000-062ST/N*	**4.000**	**4.375**	4.000	4.375	0.062	24.28
BU18704000-070ST/N*	**4.000**	**4.375**	4.000	4.375	0.070	24.28
BU18704000-125ST/N	**4.000**	**4.375**	4.000	4.375	0.125	26.31
BU18704125-062ST/N*	**4.125**	**4.500**	4.125	4.500	0.062	24.28
BU18704125-070ST/N*	**4.125**	**4.500**	4.125	4.500	0.070	24.28
BU18704125-125ST/N*	**4.125**	**4.500**	4.125	4.500	0.125	26.31
BU18704250-062ST/N*	**4.250**	**4.625**	4.250	4.625	0.062	25.00
BU18704500-070ST/N	**4.500**	**4.875**	4.500	4.875	0.070	25.00
BU18704500-125ST/N*	**4.500**	**4.875**	4.500	4.875	0.125	27.30
0.197" - Cross Section - 0.197"						
BU19705607-094ST/N	**5.607**	**6.000**	5.607	6.000	0.094	33.97
0.240" - Cross Section - 0.240"						
BU24005384-125ST/T*	**5.384**	**5.864**	5.384	5.864	0.125	37.20
BU24006520-125ST/T*	**6.520**	**7.000**	6.520	7.000	0.125	44.20
0.245" - Cross Section - 0.245"						
BU24502511-125SD/DX*	**2.511**	**3.000**	2.511	3.000	0.125	23.40
BU24503511-125SD/DX*	**3.511**	**4.000**	3.511	4.000	0.125	27.20
1/4" - Cross Section - 0.250"						
BU25001000-062ST/N	**1.000**	**1.500**	1.000	1.500	0.062	21.66
BU25001000-125ST/N	**1.000**	**1.500**	1.000	1.500	0.125	22.39
BU25001062-125ST/N*	**1.062**	**1.562**	1.062	1.562	0.125	22.39
BU25001187-062ST/N	**1.187**	**1.687**	1.187	1.687	0.062	21.66
BU25001187-125ST/N*	**1.187**	**1.687**	1.187	1.687	0.125	22.39
BU25001250-062ST/N	**1.250**	**1.750**	1.250	1.750	0.062	21.66
BU25001250-125ST/N	**1.250**	**1.750**	1.250	1.750	0.125	22.39
BU25001375-125ST/N	**1.375**	**1.875**	1.375	1.875	0.125	22.39
BU25001500-062ST/N	**1.500**	**2.000**	1.500	2.000	0.062	21.66
BU25001500-070ST/N	**1.500**	**2.000**	1.500	2.000	0.070	21.66
BU25001500-125ST/N	**1.500**	**2.000**	1.500	2.000	0.125	22.39
BU25001750-062ST/N*	**1.750**	**2.250**	1.750	2.250	0.062	21.66
BU25001750-070ST/N	**1.750**	**2.250**	1.750	2.250	0.070	21.66
BU25001750-125SD/T	**1.750**	**2.250**	1.750	2.250	0.125	35.48
BU25001750-125ST/N	**1.750**	**2.250**	1.750	2.250	0.125	22.39

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SD/N, ST/N, SD/T, ST/T series - NYLON, V.PTFE

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
1/4" - Cross Section - 0.250"						
BU25002000-062ST/N	**2.000**	**2.500**	2.000	2.500	0.062	21.66
BU25002000-070ST/N	**2.000**	**2.500**	2.000	2.500	0.070	21.66
BU25002000-125ST/N	**2.000**	**2.500**	2.000	2.500	0.125	22.39
BU25002000-125ST/T	**2.000**	**2.500**	2.000	2.500	0.125	36.84
BU25002250-062ST/N	**2.250**	**2.750**	2.250	2.750	0.062	22.88
BU25002250-070ST/N	**2.250**	**2.750**	2.250	2.750	0.070	22.88
BU25002250-125ST/N	**2.250**	**2.750**	2.250	2.750	0.125	24.28
BU25002375-062ST/N*	**2.375**	**2.875**	2.375	2.875	0.062	22.88
BU25002375-070ST/N	**2.375**	**2.875**	2.375	2.875	0.070	22.88
BU25002375-125ST/N*	**2.375**	**2.875**	2.375	2.875	0.125	24.28
BU25002500-062ST/N	**2.500**	**3.000**	2.500	3.000	0.062	22.88
BU25002500-070ST/N	**2.500**	**3.000**	2.500	3.000	0.070	22.88
BU25002500-125ST/N	**2.500**	**3.000**	2.500	3.000	0.125	24.28
BU25002500-125ST/T	**2.500**	**3.000**	2.500	3.000	0.125	28.55
BU25002500-187ST/N*	**2.500**	**3.000**	2.500	3.000	0.187	25.60
BU25002625-125ST/N*	**2.625**	**3.125**	2.625	3.125	0.125	24.80
BU25002750-062ST/N	**2.750**	**3.250**	2.750	3.250	0.062	23.28
BU25002750-070ST/N	**2.750**	**3.250**	2.750	3.250	0.070	23.28
BU25002750-125ST/N	**2.750**	**3.250**	2.750	3.250	0.125	24.80
BU25002750-125ST/NAT*	**2.750**	**3.250**	2.750	3.250	0.125	24.80
BU25002875-070ST/N*	**2.875**	**3.375**	2.875	3.375	0.070	23.28
BU25003000-062ST/N	**3.000**	**3.500**	3.000	3.500	0.062	23.28
BU25003000-070ST/N	**3.000**	**3.500**	3.000	3.500	0.070	10.17
BU25003000-125ST/N	**3.000**	**3.500**	3.000	3.500	0.125	24.80
BU25003000-125ST/NAT*	**3.000**	**3.500**	3.000	3.500	0.125	24.80
BU25003000-187ST/N*	**3.000**	**3.500**	3.000	3.500	0.187	26.31
BU25003250-062ST/N	**3.250**	**3.750**	3.250	3.750	0.062	23.79
BU25003250-070ST/N*	**3.250**	**3.750**	3.250	3.750	0.070	23.79
BU25003250-125ST/N	**3.250**	**3.750**	3.250	3.750	0.125	25.49
BU25003250-125ST/NAT	**3.250**	**3.750**	3.250	3.750	0.125	25.49
BU25003482-100SD/N	**3.482**	**3.982**	3.482	3.982	0.100	25.49
BU25003500-062ST/N	**3.500**	**4.000**	3.500	4.000	0.062	23.79
BU25003500-070ST/N	**3.500**	**4.000**	3.500	4.000	0.070	23.79
BU25003500-090ST/N	**3.500**	**4.000**	3.500	4.000	0.090	25.31
BU25003500-125ST/N	**3.500**	**4.000**	3.500	4.000	0.125	25.49
BU25003500-187ST/N*	**3.500**	**4.000**	3.500	4.000	0.187	27.30
BU25003750-062ST/N*	**3.750**	**4.250**	3.750	4.250	0.062	24.28
BU25003750-070ST/N	**3.750**	**4.250**	3.750	4.250	0.070	24.28
BU25003750-125ST/N	**3.750**	**4.250**	3.750	4.250	0.125	26.31
BU250037501255T/NAT*	**3.750**	**4.250**	3.750	4.250	0.125	29.60
BU25003750-125ST/T	**3.750**	**4.250**	3.750	4.250	0.125	35.17
BU25004000-062ST/N*	**4.000**	**4.500**	4.000	4.500	0.062	24.28
BU25004000-070ST/N	**4.000**	**4.500**	4.000	4.500	0.070	24.28
BU25004000-100SD/N	**4.000**	**4.500**	4.000	4.500	0.100	25.30

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
1/4" - Cross Section - 0.250"						
BU25004000-125ST/N	**4.000**	**4.500**	4.000	4.500	0.125	26.31
BU25004000-125ST/NAT*	**4.000**	**4.500**	4.000	4.500	0.125	26.31
BU25004000-187ST/N	**4.000**	**4.500**	4.000	4.500	0.187	28.32
BU25004000-312ST/N*	**4.000**	**4.500**	4.000	4.500	0.312	32.45
BU25004250-070ST/N	**4.250**	**4.750**	4.250	4.750	0.070	25.00
BU25004250-125ST/N*	**4.250**	**4.750**	4.250	4.750	0.125	27.30
BU25004250-187ST/N	**4.250**	**4.750**	4.250	4.750	0.187	29.75
BU25004250-375ST/N*	**4.250**	**4.750**	4.250	4.750	0.375	29.28
BU25004437-125ST/N*	**4.437**	**4.937**	4.437	4.937	0.125	27.30
BU25004500-062ST/N	**4.500**	**5.000**	4.500	5.000	0.062	25.00
BU25004500-070ST/N*	**4.500**	**5.000**	4.500	5.000	0.070	25.00
BU25004500-125ST/N	**4.500**	**5.000**	4.500	5.000	0.125	27.30
BU25004500-187ST/N	**4.500**	**5.000**	4.500	5.000	0.187	29.75
BU25004625-062ST/N*	**4.625**	**5.125**	4.625	5.125	0.062	25.49
BU25004750-062ST/N*	**4.750**	**5.250**	4.750	5.250	0.062	25.49
BU25004750-070ST/N	**4.750**	**5.250**	4.750	5.250	0.070	25.49
BU25004750-125ST/N	**4.750**	**5.250**	4.750	5.250	0.125	28.22
BU25004750-187ST/N*	**4.750**	**5.250**	4.750	5.250	0.187	30.84
BU25005000-062ST/N	**5.000**	**5.500**	5.000	5.500	0.062	25.49
BU25005000-070ST/N	**5.000**	**5.500**	5.000	5.500	0.070	25.49
BU25005000-125SD/DX*	**5.000**	**5.500**	5.000	5.500	0.125	107.58
BU25005000-125SD/N	**5.000**	**5.500**	5.000	5.500	0.125	28.22
BU25005000-125ST/N	**5.000**	**5.500**	5.000	5.500	0.125	28.22
BU25005000-150SD/N	**5.000**	**5.500**	5.000	5.500	0.150	44.25
BU25005000-187ST/N	**5.000**	**5.500**	5.000	5.500	0.187	30.84
BU25005000-312SD/N*	**5.000**	**5.500**	5.000	5.500	0.312	47.53
BU25005250-062ST/N*	**5.250**	**5.750**	5.250	5.750	0.062	26.21
BU25005250-070ST/N*	**5.250**	**5.750**	5.250	5.750	0.070	26.21
BU25005250-125SD/N*	**5.250**	**5.750**	5.250	5.750	0.125	29.13
BU25005250-125ST/N	**5.250**	**5.750**	5.250	5.750	0.125	29.13
BU25005500-062ST/N	**5.500**	**6.000**	5.500	6.000	0.062	26.21
BU25005500-125ST/N	**5.500**	**6.000**	5.500	6.000	0.125	29.13
BU25005500-187ST/N*	**5.500**	**6.000**	5.500	6.000	0.187	32.16
BU25005750-062ST/N*	**5.750**	**6.250**	5.750	6.250	0.062	36.69
BU25005750-070ST/N*	**5.750**	**6.250**	5.750	6.250	0.070	36.69
BU25005750-125ST/N*	**5.750**	**6.250**	5.750	6.250	0.125	39.92
BU25006000-125ST/N	**6.000**	**6.500**	6.000	6.500	0.125	39.92
BU25006250-062ST/N*	**6.250**	**6.750**	6.250	6.750	0.062	37.70
BU25006250-125ST/N	**6.250**	**6.750**	6.250	6.750	0.125	41.43
BU25006500-062ST/N	**6.500**	**7.000**	6.500	7.000	0.062	37.70
BU25006500-100SD/N*	**6.500**	**7.000**	6.500	7.000	0.100	41.43
BU25006500-125ST/N*	**6.500**	**7.000**	6.500	7.000	0.125	41.43
BU25006625-125ST/N*	**6.625**	**7.125**	6.625	7.125	0.125	41.53
BU25006750-062ST/N*	**6.750**	**7.250**	6.750	7.250	0.062	37.80

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SD/N, ST/N, SD/T, ST/T series - NYLON, V.PTFE

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
1/4" - Cross Section - 0.250"						
BU25006750-125SD/N	**6.750**	**7.250**	6.750	7.250	0.125	41.53
BU25006750-125ST/N	**6.750**	**7.250**	6.750	7.250	0.125	41.53
BU25007000-125ST/N	**7.000**	**7.500**	7.000	7.500	0.125	41.53
BU25007500-062ST/N	**7.500**	**8.000**	7.500	8.000	0.062	39.00
BU25007500-125ST/N	**7.500**	**8.000**	7.500	8.000	0.125	43.34
BU25007750-125ST/N	**7.750**	**8.250**	7.750	8.250	0.125	45.46
BU25008000-125ST/N	**8.000**	**8.500**	8.000	8.500	0.125	45.46
BU25008125-125ST/N*	**8.125**	**8.625**	8.125	8.625	0.125	45.46
BU25008250-125ST/N*	**8.250**	**8.750**	8.250	8.750	0.125	45.46
BU25008500-100SD/N	**8.500**	**9.000**	8.500	9.000	0.100	45.46
BU25008500-125ST/N	**8.500**	**9.000**	8.500	9.000	0.125	45.46
BU25008500-150ST/T*	**8.500**	**9.000**	8.500	9.000	0.150	47.77
BU25008500-187ST/N*	**8.500**	**9.000**	8.500	9.000	0.187	49.29
BU25009000-125ST/N	**9.000**	**9.500**	9.000	9.500	0.125	47.28
BU25009250-187ST/N*	**9.250**	**9.750**	9.250	9.750	0.187	53.71
BU25009500-125SD/DX*	**9.500**	**10.000**	9.500	10.000	0.125	257.83
BU25009500-125ST/N	**9.500**	**10.000**	9.500	10.000	0.125	47.87
BU25009750-125ST/N*	**9.750**	**10.250**	9.750	10.250	0.125	54.62
BU25010000-125ST/N*	**10.000**	**10.500**	10.000	10.500	0.125	60.06
BU25010500-125ST/N*	**10.500**	**11.000**	10.500	11.000	0.125	60.06
BU25010500-187ST/N*	**10.500**	**11.000**	10.500	11.000	0.187	66.62
0.281" - Cross Section - 0.281"						
BU28103187-060SD/N*	**3.187**	**3.749**	3.187	3.749	0.060	23.79
0.301" - Cross Section - 0.301"						
BU30103972-070ST/N*	**3.972**	**4.575**	3.972	4.575	0.070	29.93
0.308" - Cross Section - 0.308"						
BU30803634-125ST/NAT	**3.634**	**4.250**	3.634	4.250	0.125	33.62
BU30804134-125ST/N	**4.134**	**4.750**	4.134	4.750	0.125	36.16
BU30804384-160ST/NAT	**4.384**	**5.000**	4.384	5.000	0.160	40.29
5/16" - Cross Section - 0.312"						
BU31201125-125ST/N*	**1.125**	**1.750**	1.125	1.750	0.125	22.39
BU31201250-062ST/N	**1.250**	**1.875**	1.250	1.875	0.062	21.66
BU31201375-125ST/N	**1.375**	**2.000**	1.375	2.000	0.125	22.39
BU31201500-062ST/N*	**1.500**	**2.125**	1.500	2.125	0.062	21.66
BU31201500-100ST/N*	**1.500**	**2.125**	1.500	2.125	0.100	22.28
BU31201500-125ST/N	**1.500**	**2.125**	1.500	2.125	0.125	22.47
BU31201750-070ST/N*	**1.750**	**2.375**	1.750	2.375	0.070	22.28
BU31201750-125ST/N*	**1.750**	**2.375**	1.750	2.375	0.125	22.47
BU31202000-125ST/N	**2.000**	**2.625**	2.000	2.625	0.125	24.19
BU31202125-125ST/N*	**2.125**	**2.750**	2.125	2.750	0.125	24.19

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Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
5/16" - Cross Section - 0.312"						
BU31202125-250SD/N*	**2.125**	**2.750**	2.125	2.750	0.250	27.82
BU31202250-062ST/N*	**2.250**	**2.875**	2.250	2.875	0.062	22.78
BU31202250-125ST/N*	**2.250**	**2.875**	2.250	2.875	0.125	24.19
BU31202375-062ST/N*	**2.375**	**3.000**	2.375	3.000	0.062	22.78
BU31202375-125ST/N*	**2.375**	**3.000**	2.375	3.000	0.125	24.19
BU31202375-187ST/N*	**2.375**	**3.000**	2.375	3.000	0.187	25.49
BU31202500-125ST/N	**2.500**	**3.125**	2.500	3.125	0.125	24.80
BU31202500-187ST/N*	**2.500**	**3.125**	2.500	3.125	0.187	26.31
BU31202625-062ST/N*	**2.625**	**3.250**	2.625	3.250	0.062	23.28
BU31202625-125ST/N*	**2.625**	**3.250**	2.625	3.250	0.125	24.80
BU31202750-062ST/N*	**2.750**	**3.375**	2.750	3.375	0.062	23.28
BU31202750-125ST/N*	**2.750**	**3.375**	2.750	3.375	0.125	24.80
BU31202875-125ST/N*	**2.875**	**3.500**	2.875	3.500	0.125	24.80
BU31203000-062ST/N	**3.000**	**3.625**	3.000	3.625	0.062	23.79
BU31203000-125ST/N	**3.000**	**3.625**	3.000	3.625	0.125	25.49
BU31203125-062ST/N*	**3.125**	**3.750**	3.125	3.750	0.062	23.79
BU31203250-062ST/N*	**3.250**	**3.875**	3.250	3.875	0.062	23.79
BU31203250-125ST/N*	**3.250**	**3.875**	3.250	3.875	0.125	25.49
BU31203250-187ST/N*	**3.250**	**3.875**	3.250	3.875	0.187	27.30
BU31203375-062ST/N*	**3.375**	**4.000**	3.375	4.000	0.062	23.79
BU31203375-125ST/N*	**3.375**	**4.000**	3.375	4.000	0.125	25.49
BU31203375-187ST/N*	**3.375**	**4.000**	3.375	4.000	0.187	27.30
BU31203500-125ST/N	**3.500**	**4.125**	3.500	4.125	0.125	26.31
BU31203500-187ST/N*	**3.500**	**4.125**	3.500	4.125	0.187	28.32
BU31203500-250ST/N*	**3.500**	**4.125**	3.500	4.125	0.250	30.34
BU31203750-125ST/N	**3.750**	**4.375**	3.750	4.375	0.125	26.31
BU31203875-125ST/N	**3.875**	**4.500**	3.875	4.500	0.125	26.31
BU31204000-062ST/N*	**4.000**	**4.625**	4.000	4.625	0.062	25.00
BU31204000-125ST/N	**4.000**	**4.625**	4.000	4.625	0.125	27.30
BU31204125-125ST/N*	**4.125**	**4.750**	4.125	4.750	0.125	27.30
BU31204250-062ST/N*	**4.250**	**4.875**	4.250	4.875	0.062	25.00
BU31204250-125ST/N	**4.250**	**4.875**	4.250	4.875	0.125	27.30
BU31204250-187ST/N*	**4.250**	**4.875**	4.250	4.875	0.187	29.75
BU31204375-095ST/N	**4.375**	**5.000**	4.375	5.000	0.095	26.71
BU31204375-095ST/NAT*	**4.375**	**5.000**	4.375	5.000	0.095	26.71
BU31204375-125ST/N	**4.375**	**5.000**	4.375	5.000	0.125	27.30
BU31204500-125ST/N*	**4.500**	**5.125**	4.500	5.125	0.125	28.22
BU31204500-187ST/N	**4.500**	**5.125**	4.500	5.125	0.187	30.84
BU31204500-500SD/N	**4.500**	**5.125**	4.500	5.125	0.500	41.87
BU31204750-125ST/N*	**4.750**	**5.375**	4.750	5.375	0.125	28.22
BU31204750-187ST/N*	**4.750**	**5.375**	4.750	5.375	0.187	30.84
BU31205000-125SD/T	**5.000**	**5.625**	5.000	5.625	0.125	29.13
BU31205000-125ST/N	**5.000**	**5.625**	5.000	5.625	0.125	29.13
BU31205000-187ST/N	**5.000**	**5.625**	5.000	5.625	0.187	32.16

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SD/N, ST/N, SD/T, ST/T series - NYLON, V.PTFE

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
5/16" - Cross Section - 0.312"						
BU31205375-062ST/N	**5.375**	**6.000**	5.375	6.000	0.062	38.30
BU31205375-125ST/N*	**5.375**	**6.000**	5.375	6.000	0.125	42.24
BU31205500-125ST/N	**5.500**	**6.125**	5.500	6.125	0.125	39.92
BU31205750-125ST/N*	**5.750**	**6.375**	5.750	6.375	0.125	39.92
BU31206375-125ST/N*	**6.375**	**7.000**	6.375	7.000	0.125	42.24
BU31207375-125ST/N*	**7.375**	**8.000**	7.375	8.000	0.125	42.24
BU31207500-062ST/N*	**7.500**	**8.125**	7.500	8.125	0.062	40.42
BU31207750-125ST/N*	**7.750**	**8.375**	7.750	8.375	0.125	45.46
BU31208000-125ST/N*	**8.000**	**8.625**	8.000	8.625	0.125	44.54
BU31208500-125ST/N*	**8.500**	**9.125**	8.500	9.125	0.125	47.28
BU31208500-187ST/N*	**8.500**	**9.125**	8.500	9.125	0.187	52.91
BU31209250-125ST/N*	**9.250**	**9.875**	9.250	9.875	0.125	60.20
BU31209375-125ST/N	**9.375**	**10.000**	9.375	10.000	0.125	47.87
BU31209500-125ST/N*	**9.500**	**10.125**	9.500	10.125	0.125	64.71
BU31210500-125ST/N*	**10.500**	**11.125**	10.500	11.125	0.125	65.61
BU31210500-187ST/N*	**10.500**	**11.125**	10.500	11.125	0.187	73.97
BU31211000-125ST/N*	**11.000**	**11.625**	11.000	11.625	0.125	62.38
0.343" - Cross Section - 0.343"						
BU34309000-125SD/N	**9.000**	**9.687**	9.000	9.687	0.125	52.49
3/8" - Cross Section - 0.375"						
BU37501750-125ST/N*	**1.750**	**2.500**	1.750	2.500	0.125	27.30
BU37502000-125ST/N	**2.000**	**2.750**	2.000	2.750	0.125	30.54
BU37502250-125ST/N	**2.250**	**3.000**	2.250	3.000	0.125	30.54
BU37502500-125ST/N	**2.500**	**3.250**	2.500	3.250	0.125	31.35
BU37502500-187ST/N*	**2.500**	**3.250**	2.500	3.250	0.187	32.85
BU37502500-250ST/N*	**2.500**	**3.250**	2.500	3.250	0.250	34.46
BU37502750-125ST/N	**2.750**	**3.500**	2.750	3.500	0.125	31.35
BU37503000-125ST/N	**3.000**	**3.750**	3.000	3.750	0.125	32.34
BU37503250-125ST/N	**3.250**	**4.000**	3.250	4.000	0.125	32.34
BU37503500-125ST/N	**3.500**	**4.250**	3.500	4.250	0.125	33.36
BU37503625-125ST/N	**3.625**	**4.375**	3.625	4.375	0.125	33.36
BU37503625-437SD/N*	**3.625**	**4.375**	3.625	4.375	0.437	46.94
BU37503750-125ST/N	**3.750**	**4.500**	3.750	4.500	0.125	33.36
BU37504000-125ST/N	**4.000**	**4.750**	4.000	4.750	0.125	34.78
BU37504250-125ST/N	**4.250**	**5.000**	4.250	5.000	0.125	34.78
BU37504500-125ST/N	**4.500**	**5.250**	4.500	5.250	0.125	35.88
BU37504500-187ST/N*	**4.500**	**5.250**	4.500	5.250	0.187	38.51
BU37504750-125ST/N	**4.750**	**5.500**	4.750	5.500	0.125	35.88
BU37505000-125ST/N	**5.000**	**5.750**	5.000	5.750	0.125	37.18
BU37505000-187ST/N	**5.000**	**5.750**	5.000	5.750	0.187	40.11
BU37505250-062ST/N	**5.250**	**6.000**	5.250	6.000	0.062	34.17
BU37505250-125ST/N	**5.250**	**6.000**	5.250	6.000	0.125	37.18

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Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
3/8" - Cross Section - 0.375"						
BU37505250-187ST/N	**5.250**	**6.000**	5.250	6.000	0.187	40.11
BU37505500-125ST/N	**5.500**	**6.250**	5.500	6.250	0.125	43.13
BU37505500-187ST/N	**5.500**	**6.250**	5.500	6.250	0.187	46.37
BU37505750-125ST/N	**5.750**	**6.500**	5.750	6.500	0.125	43.13
BU37505750-187ST/N*	**5.750**	**6.500**	5.750	6.500	0.187	46.37
BU37505750-375ST/N*	**5.750**	**6.500**	5.750	6.500	0.375	52.82
BU37506000-125ST/N	**6.000**	**6.750**	6.000	6.750	0.125	45.16
BU37506250-125ST/N	**6.250**	**7.000**	6.250	7.000	0.125	45.16
BU37506250-187ST/N*	**6.250**	**7.000**	6.250	7.000	0.187	48.89
BU37506500-125ST/N	**6.500**	**7.250**	6.500	7.250	0.125	45.26
BU37506750-187ST/N	**6.750**	**7.500**	6.750	7.500	0.187	49.00
BU37507000-125ST/N	**7.000**	**7.750**	7.000	7.750	0.125	47.68
BU37507000-250ST/N*	**7.000**	**7.750**	7.000	7.750	0.250	53.31
BU37507250-125ST/N	**7.250**	**8.000**	7.250	8.000	0.125	47.68
BU37507250-187ST/N	**7.250**	**8.000**	7.250	8.000	0.187	52.00
BU37507250-250ST/N*	**7.250**	**8.000**	7.250	8.000	0.250	53.31
BU37507500-125ST/N*	**7.500**	**8.250**	7.500	8.250	0.125	50.49
BU37507750-125ST/N	**7.750**	**8.500**	7.750	8.500	0.125	50.49
BU37508000-125SD/N	**8.000**	**8.750**	8.000	8.750	0.125	46.20
BU37508000-125ST/N	**8.000**	**8.750**	8.000	8.750	0.125	49.29
BU37508250-125ST/N	**8.250**	**9.000**	8.250	9.000	0.125	51.17
BU37508250-187ST/N*	**8.250**	**9.000**	8.250	9.000	0.187	54.03
BU37508500-125ST/N*	**8.500**	**9.250**	8.500	9.250	0.125	52.91
BU37508750-125ST/N*	**8.750**	**9.500**	8.750	9.500	0.125	52.91
BU37509000-125ST/N	**9.000**	**9.750**	9.000	9.750	0.125	53.71
BU37509250-125ST/N*	**9.250**	**10.000**	9.250	10.000	0.125	58.77
BU37509500-125ST/N*	**9.500**	**10.250**	9.500	10.250	0.125	67.74
BU37509750-125ST/N*	**9.750**	**10.500**	9.750	10.500	0.125	67.74
BU37510000-125ST/N	**10.000**	**10.750**	10.000	10.750	0.125	67.74
BU37510250-125ST/N*	**10.250**	**11.000**	10.250	11.000	0.125	67.74
BU37510750-125ST/N*	**10.750**	**11.500**	10.750	11.500	0.125	68.85
BU37511000-125ST/N*	**11.000**	**11.750**	11.000	11.750	0.125	64.81
BU37511250-125ST/N*	**11.250**	**12.000**	11.250	12.000	0.125	69.85
BU37511750-375ST/N*	**11.750**	**12.500**	11.750	12.500	0.375	123.37
BU37512000-125ST/N*	**12.000**	**12.750**	12.000	12.750	0.125	72.48
BU37512250-125ST/N*	**12.250**	**13.000**	12.250	13.000	0.125	72.48
BU37512500-155ST/T*	**12.500**	**13.250**	12.500	13.250	0.155	198.00
BU37513250-375ST/N*	**13.250**	**14.000**	13.250	14.000	0.375	114.90
0.391" - Cross Section - 0.391"						
BU39107000-160ST/N	**7.000**	**7.783**	7.000	7.783	0.160	48.06
0.408" - Cross Section - .0.408"						
BU40809000-250ST/N*	**9.000**	**9.816**	9.000	9.816	0.250	52.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/N, ST/N, SD/T, ST/T series - NYLON, V.PTFE

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
0.417" - Cross Section - 0.417"						
BU41706670-150ST/N*	**6.670**	**7.500**	6.670	7.500	0.150	56.41
0.418" - Cross Section - 0.418"						
BU41805160-125ST/NAT*	**5.160**	**6.000**	5.160	6.000	0.125	49.91
0.437" - Cross Section - 0.437"						
BU43704500-600SD/N*	**4.500**	**5.375**	4.500	5.375	0.600	74.18
0.450" - Cross Section - 0.450"						
BU45005107-120ST/N	**5.107**	**6.007**	5.107	6.007	0.120	57.36
1/2" - Cross Section - 0.500"						
BU50002500-125ST/N*	**2.500**	**3.500**	2.500	3.500	0.125	31.35
BU50002500-187ST/N*	**2.500**	**3.500**	2.500	3.500	0.187	32.85
BU50003000-125ST/N*	**3.000**	**4.000**	3.000	4.000	0.125	32.34
BU50003000-375ST/N*	**3.000**	**4.000**	3.000	4.000	0.375	39.40
BU50003500-125SD/N	**3.500**	**4.500**	3.500	4.500	0.125	33.36
BU50003500-125ST/N*	**3.500**	**4.500**	3.500	4.500	0.125	33.36
BU50004000-125ST/N	**4.000**	**5.000**	4.000	5.000	0.125	34.78
BU50004000-187ST/N	**4.000**	**5.000**	4.000	5.000	0.187	37.18
BU50004500-125ST/N	**4.500**	**5.500**	4.500	5.500	0.125	35.88
BU50004500-187ST/N*	**4.500**	**5.500**	4.500	5.500	0.187	38.51
BU50005000-062ST/N*	**5.000**	**6.000**	5.000	6.000	0.062	34.17
BU50005000-125ST/N*	**5.000**	**6.000**	5.000	6.000	0.125	37.18
BU50005500-125ST/N	**5.500**	**6.500**	5.500	6.500	0.125	38.10
BU50006000-125ST/N*	**6.000**	**7.000**	6.000	7.000	0.125	55.24
BU50006000-187ST/N*	**6.000**	**7.000**	6.000	7.000	0.187	58.96
BU50006375-125ST/N*	**6.375**	**7.375**	6.375	7.375	0.125	74.69
BU50006500-125ST/N	**6.500**	**7.500**	6.500	7.500	0.125	55.34
BU50006750-125ST/N*	**6.750**	**7.750**	6.750	7.750	0.125	63.19
BU50007000-125ST/N	**7.000**	**8.000**	7.000	8.000	0.125	57.76
BU50007000-250ST/N*	**7.000**	**8.000**	7.000	8.000	0.250	66.41
BU50007500-125ST/N*	**7.500**	**8.500**	7.500	8.500	0.125	60.57
BU50007500-250ST/N*	**7.500**	**8.500**	7.500	8.500	0.250	70.66
BU50007750-125ST/N*	**7.750**	**8.750**	7.750	8.750	0.125	66.01
BU50008000-125ST/N	**8.000**	**9.000**	8.000	9.000	0.125	59.36
BU50008500-125ST/N	**8.500**	**9.500**	8.500	9.500	0.125	63.00
BU50009000-125ST/N*	**9.000**	**10.000**	9.000	10.000	0.125	63.79
BU50009000-250ST/N	**9.000**	**10.000**	9.000	10.000	0.250	75.50
BU50009500-125ST/N*	**9.500**	**10.500**	9.500	10.500	0.125	77.81
BU50009750-125ST/N*	**9.750**	**10.750**	9.750	10.750	0.125	77.81
BU50010000-125ST/N	**10.000**	**11.000**	10.000	11.000	0.125	71.67
BU50010000-250ST/N	**10.000**	**11.000**	10.000	11.000	0.250	84.77
BU50010250-125ST/N*	**10.250**	**11.250**	10.250	11.250	0.125	79.01

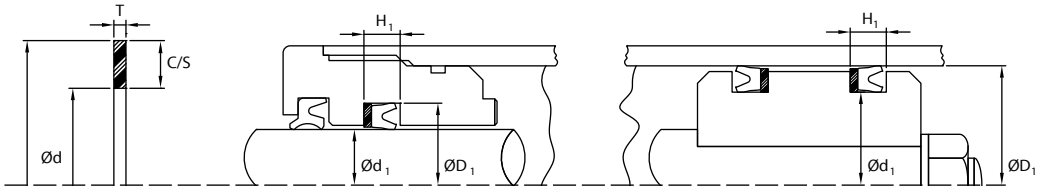
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	H	
1/2" - Cross Section - 0.500"						
BU50011000-100ST/N	**11.000**	**12.000**	11.000	12.000	0.100	67.94
BU50011000-125ST/N	**11.000**	**12.000**	11.000	12.000	0.125	74.88
BU50011000-250ST/N*	**11.000**	**12.000**	11.000	12.000	0.250	89.61
BU50012000-125ST/N	**12.000**	**13.000**	12.000	13.000	0.125	77.62
BU50012000-250ST/N*	**12.000**	**13.000**	12.000	13.000	0.250	93.63
BU50012500-187ST/N*	**12.500**	**13.500**	12.500	13.500	0.187	111.98
BU50012750-125ST/N*	**12.750**	**13.750**	12.750	13.750	0.125	98.67
BU50013000-125ST/N	**13.000**	**14.000**	13.000	14.000	0.125	87.68
BU50013000-250ST/N	**13.000**	**14.000**	13.000	14.000	0.250	106.33
BU50013250-125ST/N*	**13.250**	**14.250**	13.250	14.250	0.125	88.80
BU50013250-250ST/N*	**13.250**	**14.250**	13.250	14.250	0.250	107.94
BU50013500-125ST/N	**13.500**	**14.500**	13.500	14.500	0.125	88.80
BU50013500-187ST/N	**13.500**	**14.500**	13.500	14.500	0.187	98.37
BU50015000-100ST/N*	**15.000**	**16.000**	15.000	16.000	0.100	94.13
BU50015000-125ST/N*	**15.000**	**16.000**	15.000	16.000	0.125	94.13
BU50015000-187ST/N*	**15.000**	**16.000**	15.000	16.000	0.187	105.11
BU50015000-250ST/N*	**15.000**	**16.000**	15.000	16.000	0.250	116.01
BU50015500-125ST/N*	**15.500**	**16.500**	15.500	16.500	0.125	110.98
BU50015750-125SD/T*	**15.750**	**16.750**	15.750	16.750	0.125	110.98
BU50015750-125ST/N*	**15.750**	**16.750**	15.750	16.750	0.125	110.98
BU50015750-160ST/N	**15.750**	**16.750**	15.750	16.750	0.160	138.42
BU50016000-187ST/N*	**16.000**	**17.000**	16.000	17.000	0.187	110.98
0.740" - Cross Section - 0.740"						
BU74006875-125SD/DX*	**6.875**	**8.355**	6.875	8.355	0.125	148.44





Standard Materials	Temperature Range
Poly-Orange SD/P	-65°F to +275°F (-54°C to +135°C)
V.PTFE SD/T	-320°F to +450°F (-196°C to +232°C)



8700-style back-up rings provided added extrusion resistance to U-Cups and similar seals with only minimal increase in gland width. They are designed to increase the pressure rating of softer elastomeric materials when higher pressures may cause extrusion problems.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref. Number	Nominal Seal Dimensions			V.PTFE SD/T $	POLY SD/P $
	d	D	T		
870300187	0.187	0.375	0.062	9.14*	2.00*
870400187	0.187	0.437	0.062	9.14*	2.03*
870400250	0.250	0.500	0.062	9.14*	2.03*
870300312	0.312	0.500	0.062	9.14*	2.03*
870400312	0.312	0.562	0.062	9.14*	2.03*
870400375	0.375	0.625	0.062	9.14*	2.13
870400437	0.437	0.687	0.062	9.14*	2.13*
870400500	0.500	0.750	0.062	10.07*	2.16
870600500	0.500	0.875	0.062	10.07*	2.85*
870800500	0.500	1.000	0.062	10.07*	3.26*
870400562	0.562	0.812	0.062	10.07*	2.19*
870300625	0.625	0.812	0.062	10.07*	2.03*
870400625	0.625	0.875	0.062	10.07	2.25
870600625	0.625	1.000	0.062	10.07*	2.99*
870800625	0.625	1.125	0.062	10.07*	3.39*
870400687	0.687	0.937	0.062	10.07*	2.19*
870400750	0.750	1.000	0.062	14.81	2.33
870600750	0.750	1.125	0.062	14.81*	3.10*
870800750	0.750	1.250	0.062	14.81*	3.45*
870400812	0.812	1.062	0.062	14.81*	2.20*
870400875	0.875	1.125	0.062	14.81*	2.25*
870500875	0.875	1.187	0.062	14.81*	2.66*
870600875	0.875	1.250	0.062	14.81*	3.16*
870800875	0.875	1.375	0.062	14.81*	3.56*
870400937	0.937	1.187	0.062	14.81*	2.25*

Ref. Number	Nominal Seal Dimensions			V.PTFE SD/T $	POLY SD/P $
	d	D	T		
870500937	0.937	1.250	0.062	14.81*	2.66*
870401000	1.000	1.250	0.062	14.81	2.32*
870501000	1.000	1.312	0.062	7.68	2.77
870601000	1.000	1.375	0.062	15.20*	3.26*
870801000	1.000	1.500	0.062	15.20	3.70*
870501062	1.062	1.375	0.062	15.20*	2.77*
870401125	1.125	1.375	0.062	15.20*	2.33*
870501125	1.125	1.437	0.062	15.20*	2.77*
870501187	1.187	1.500	0.062	15.20	2.96
870501218	1.218	1.531	0.062	15.20*	2.80*
870401250	1.250	1.500	0.062	15.20	2.49*
870501250	1.250	1.562	0.062	15.20	2.85
870801250	1.250	1.750	0.062	15.20*	3.96*
871201250	1.250	2.000	0.062	15.20*	6.06*
870501312	1.312	1.625	0.062	15.20*	2.85*
870501375	1.375	1.687	0.062	15.20	3.05
870601375	1.375	1.750	0.062	15.20	3.40
871001375	1.375	2.000	0.062	15.20	6.01*
870501500	1.500	1.812	0.062	15.20	3.00*
870601500	1.500	1.875	0.062	15.20*	3.45
870801500	1.500	2.000	0.062	15.20*	4.20
870601625	1.625	2.000	0.062	15.40	3.62
870601656	1.656	2.031	0.062	15.40*	3.58*
870601750	1.750	2.125	0.062	16.96	3.86
870801750	1.750	2.250	0.062	16.96	4.46*

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

8700 Series - Poly-Orange/SD/P - V.PTFE/SD/T

Ref. Number	Nominal Seal Dimensions			V.PTFE SD/T $	POLY SD/P $
	d	D	T		
870601875	1.875	2.250	0.062	16.96*	3.98*
870701937	1.937	2.375	0.062	16.96*	4.03*
870602000	2.000	2.375	0.062	17.15	4.10
870802000	2.000	2.500	0.062	17.15*	4.68*
870602125	2.125	2.500	0.062	17.55	4.20
870602156	2.156	2.531	0.062	17.55*	4.20*
870602250	2.250	2.625	0.062	17.55	4.33*
871202250	2.250	3.000	0.062	17.55*	6.85*
870602375	2.375	2.750	0.062	17.55*	4.42*
871002375	2.375	3.000	0.062	17.55*	6.59*
870602500	2.500	2.875	0.062	17.55	4.43*
870702500	2.500	2.937	0.062	18.72	4.70*
870802500	2.500	3.000	0.062	18.72	5.62*
870702562	2.562	3.000	0.062	18.72	4.80*
870602625	2.625	3.000	0.062	18.72*	4.55*
870702687	2.687	3.125	0.062	18.72*	4.88*
870602750	2.750	3.125	0.062	18.72*	4.58*
870702750	2.750	3.185	0.062	18.72*	4.90*
870802750	2.750	3.250	0.062	12.27	6.33
870602812	2.812	3.187	0.062	19.49*	4.58*
870702812	2.812	3.250	0.062	12.27	4.89
870602843	2.843	3.218	0.062	19.49*	4.58*
870702843	2.843	3.281	0.062	19.49*	5.02*
870602875	2.875	3.250	0.062	19.49*	4.60*
870902937	2.937	3.500	0.062	19.49*	54.48*
870603000	3.000	3.375	0.062	19.49	4.73*
870703000	3.000	3.437	0.062	19.49	6.54
870803000	3.000	3.500	0.062	19.49	5.48*
870703062	3.062	3.500	0.062	19.49*	5.13*
870603250	3.250	3.625	0.062	19.49*	4.90*
871203250	3.250	4.000	0.062	19.49	7.61*
871003375	3.375	4.000	0.062	19.49*	7.49*
870603500	3.500	3.875	0.062	21.84*	5.59*
870803500	3.500	4.000	0.062	21.84	7.85
870803750	3.750	4.250	0.062	21.84*	8.14*
870803937	3.937	4.437	0.062	21.84*	6.91*
870604000	4.000	4.375	0.062	21.84*	7.49*
870804000	4.000	4.500	0.062	21.84	8.29
870804250	4.250	4.750	0.062	21.84*	8.37*
871204250	4.250	5.000	0.062	21.84	9.40*
871004375	4.375	5.000	0.062	21.84*	8.69*
870904437	4.437	5.000	0.062	21.84	9.30
870804500	4.500	5.000	0.062	21.84	12.61
870804750	4.750	5.250	0.062	26.60*	8.69*
870904937	4.937	5.500	0.062	26.60*	9.54*
870805000	5.000	5.500	0.062	26.60*	8.87*

Ref. Number	Nominal Seal Dimensions			V.PTFE SD/T $	POLY SD/P $
	d	D	T		
870905000	5.000	5.562	0.062	26.60*	9.94
871005125	5.125	5.750	0.062	26.60*	9.77*
871205250	5.250	6.000	0.062	26.60*	11.28*
871005375	5.375	6.000	0.062	37.02	10.17
870905437	5.437	6.000	0.062	44.24	12.68
870805500	5.500	6.000	0.062	37.02	9.02
871005500	5.500	6.125	0.062	44.24*	15.32*
871205500	5.500	6.250	0.062	44.24*	12.46*
870905937	5.937	6.500	0.062	44.24*	11.75*
870806000	6.000	6.500	0.062	44.24*	9.45*
871006000	6.000	6.625	0.062	44.24	42.59*
871206250	6.250	7.000	0.062	44.24	54.48*
871006375	6.375	7.000	0.062	39.18	44.77
870906437	6.437	7.000	0.062	44.04	57.00*
870806500	6.500	7.000	0.062	44.04*	9.77*
871206500	6.500	7.250	0.062	44.04*	56.56*
870906937	6.937	7.500	0.062	44.04*	57.66*
871006968	6.968	7.593	0.062	44.04*	48.09*
870807000	7.000	7.500	0.062	44.04*	53.28*
871007000	7.000	7.625	0.062	44.04*	48.56*
871207000	7.000	7.750	0.062	44.04*	58.17*
871607000	7.000	8.000	0.062	44.04*	77.75*
871007375	7.375	8.000	0.062	44.04	49.32
870807500	7.500	8.000	0.062	57.86	53.75*
871207500	7.500	8.250	0.062	57.86*	60.03*
870907937	7.937	8.500	0.062	57.86*	61.35*
870808000	8.000	8.500	0.062	57.86*	54.10*
871008000	8.000	8.625	0.062	57.86	53.84*
871208000	8.000	8.750	0.062	57.86*	61.70*
871608000	8.000	9.000	0.062	57.86*	80.84*
871008500	8.500	9.125	0.062	57.86*	56.44*
871209000	9.000	9.750	0.062	57.86*	65.32*
871609000	9.000	10.000	0.062	57.86*	83.90*
871109312	9.312	10.000	0.062	57.86	77.76
871109343	9.343	10.031	0.062	57.86*	82.15*
871210000	10.000	10.750	0.062	57.86*	69.61*
871610000	10.000	11.000	0.062	57.86*	88.13*
871611000	11.000	12.000	0.062	57.86*	92.12*
871611031	11.031	12.031	0.062	57.86*	92.96*
871211250	11.250	12.000	0.062	54.67	71.54*
871612000	12.000	13.000	0.062	76.06*	98.43*
871613000	13.000	14.000	0.062	121.92	103.32*
871613031	13.062	14.062	0.062	76.06*	105.75*
871313187	13.187	14.000	0.062	81.25*	82.68
871315218	15.218	16.031	0.062	81.25*	211.23*
871519093	19.093	20.031	0.062	81.25*	289.40*

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
PG-12502000-020	2.000	2.250	0.020	6.28
PG-12502500-020	2.500	2.750	0.020	6.89
PG-12503000-020	3.000	3.250	0.020	8.32
PG-12503250-020	3.250	3.500	0.020	9.28
PG-12503750-020*	3.750	4.000	0.020	11.41
PG-12504000-020	4.000	4.250	0.020	12.68

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
PG-12505000-020	5.000	5.250	0.020	14.27
PG-12506000-020	6.000	6.250	0.020	15.42
PG-12508000-020	8.000	8.250	0.020	16.03
PG-12510000-020*	10.000	10.250	0.020	17.57
PG-12512000-020*	12.000	12.250	0.020	18.28

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Bonded Seals - Reference Chart

Ref.Number	Nominal Size Bolt Dia.			d		P		Y	
	in	B.S.P.	mm	in	mm	in	mm	in	m
BS400001	0.110		2.6	.115/ .125	2.92/ 3.18	.008/.015 in 0.20/0.38 mm		.161/ .164	4.09/ 4.17
BS400002	0.142		-	.157/ .167	3.99/ 4.24			.202/ .212	5.13/ 5.39
BS400003	0.185		-	.200/ .210	5.08/ 5.33			.245/ .255	6.22/ 6.48
BS400004	1/4		6	.265/ .275	6.73/ 6.99			.310/ .320	7.87/ 8.13
BS400005	1/4		-	.270/ .280	6.86/ 7.11			.370/ .380	9.40/ 9.65
BS400006	5/16		-	.322/ .330	8.18/ 8.38			.370/ .380	9.40/ 9.65
BS400007	5/16		8	.335/ .345	8.51/ 8.76			.390/ .400	9.91/10.16
BS400020	3/8	1/8	-	.403/ .411	10.24/10.44	.010/.020 in 0.25/0.51 mm		.461/ .471	11.71/11.96
BS400008	.40		10	.438/ .442	11.13/11.23			.485/ .495	12.32/12.57
BS400009	7/16		11	.455/ .465	11.56/11.81			.510/ .520	12.95/13.21
BS400021	1/2	1/4	12 & 13	.536/ .544	13.61/13.82			.594/ .604	15.09/15.34
BS400010	0.56		14	.580/ .590	14.73/14.99			.640/ .650	16.26/16.51
BS400022	.60		-	.618/ .626	15.70/15.90			.676/ .686	17.17/17.42
BS400011	5/8		16	.645/ .655	16.38/16.64			.733/ .743	18.62/18.87
BS400023		3/8	16	.675/ .683	17.15/17.35			.733/ .743	18.62/18.87
BS400012	11/16		-	.710/ .720	18.03/18.29			.770/ .780	19.56/19.81
BS400024	3/4		18	.770/ .778	19.56/19.76			.839 / .840	21.08/21.34
BS400025	13/16	1/2	20	.843/ .851	21.41/21.62			.901/ .911	22.88/23.14
BS400026	7/8	5/8	22	.920/ .928	23.36/23.57			.978/ .988	24.84/25.10
BS400013	15/16		-	.950/ .960	24.13/24.38			1.020/1.030	25.91/26.16
BS400027	1	3/4	24 & 26	1.060/1.068	26.92/27.13			1.118/1.128	28.40/28.65
BS400028	1 1/16	-	27	1.090/1.100	27.69/27.94			1.200/1.210	30.48/30.73
BS400014	1 1/8		28	1.150/1.160	29.21/29.46			1.210/1.220	30.73/30.99
BS400029	1 3/16	7/8	30	1.208/1.216	30.68/30.89			1.266/1.276	32.16/32.41
BS400015	1 1/4		-	1.280/1.290	32.51/32.77			1.400/1.410	35.56/35.81
BS400030	1 5/16	1	33	1.329/1.337	33.76/33.96			1.447/1.457	36.75/37.01
BS400031	1 5/16	1	-	1.329/1.337	33.76/33.96			1.477/1.487	36.75/37.01
BS400016	1 3/8		-	1.410/1.420	35.81/36.07			1.530/1.540	38.86/39.12
BS400017	1 1/2		36 & 38	1.530/1.540	38.86/39.12			1.650/1.660	41.91/42.16
BS400032	1 5/8	1 1/4	39 & 42	1.685/1.693	42.80/43.00			1.803/1.813	45.80/46.05
BS400018	1 3/4		-	1.780/1.790	45.21/45.47			1.900/1.910	48.26/48.51
BS400033	1 7/8	1 1/2	45	1.902/1.910	48.31/48.51			2.018/2.028	51.26/51.51
BS400019	2		48	2.030/2.040	51.56/51.82			2.150/2.160	54.61/54.86
BS400034	2 1/8	1 3/4	52	2.156/2.164	54.76/54.97			2.290/2.300	58.17/58.42
BS400035	2 1/4	-	56	2.280/2.290	57.91/58.17			2.400/2.410	60.96/61.21
BS400036		2	-	2.380/2.390	60.45/60.72			2.500/2.510	63.50/63.75
BS400037	2 1/2	-	60	2.530/2.540	64.26/64.52			2.650/2.660	67.31/67.56
BS400038		2 1/4	64	2.620/2.630	66.55/66.80			2.750/2.760	69.85/70.10
BS400039		2 1/2	68	2.990/3.000	75.95/76.20			3.120/3.130	79.25/79.50

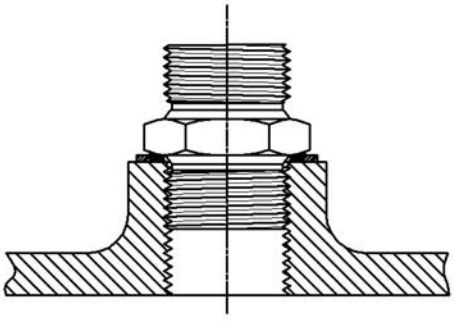
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Bonded Seals - Reference Chart

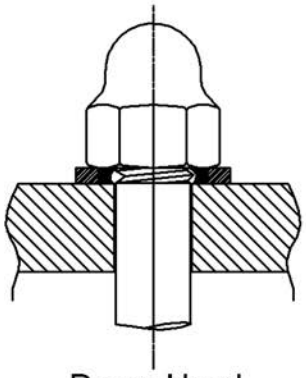
D		h		T		Minimum Bursting Pressure		Ref.Number
in	mm	in	mm	in	m	p.s.i.	bar	
.250/.255	6.35/6.48	.048/.054 in		0.210	5.33	18100	1250	BS400001
.286/.291	7.26/7.39	1.22/1.37 mm		0.270	6.86	13000	900	BS400002
.330/.335	8.38/8.51			0.310	7.87	11400	785	BS400003
.520/.525	13.21/13.34			0.380	9.65	21200	1460	BS400004
.525/.530	13.34/13.46			0.430	10.92	14900	1025	BS400005
.525/.530	13.34/13.46			0.480	12.19	14900	1025	BS400006
.560/.565	14.22/14.35			0.480	12.19	15100	1040	BS400007
.625/.630	15.88/16.00	.080/.086 in		0.560	14.22	13200	910	BS400020
.723/.727	18.36/18.47	2.03/2.18 mm			14.73	17300	1190	BS400008
.750/.755	19.05/19.18			0.600	15.24	16400	1130	BS400009
.810/.815	20.57/20.70			0.690	17.53	13600	935	BS400021
.875/.880	22.23/22.35			0.730	18.54	13700	940	BS400010
.875/.880	22.23/22.35			0.770	19.56	11400	785	BS400022
1.000/1.005	25.40/25.53				21.08	13700	940	BS400011
.937/.942	23.80/23.93			0.830	21.08	10900	750	BS400023
1.000/1.005	25.40/25.53	.092/.102 in		0.870	22.10	11400	785	BS400012
1.060/1.065	26.92/27.05	2.34/2.60 mm		0.920	23.37	10900	750	BS400024
1.125/1.130	28.58/28.70			1.000	25.40	10000	690	BS400025
1.250/1.255	31.75/31.88			1.080	27.43	11000	755	BS400026
1.310/1.315	36.27/33.40			1.120	28.45	11100	760	BS400013
1.375/1.380	34.93/35.05			1.220	30.99	9400	645	BS400027
1.520/1.525	38.61/38.74			1.310	33.27	11400	785	BS400028
1.440/1.445	36.58/36.70			1.310	33.37	7600	525	BS400014
1.500/1.505	38.10/38.23			1.370	34.80	7700	530	BS400029
1.630/1.635	41.40/41.53	.128/1.38 in		1.510	38.35	6650	455	BS400015
1.685/1.690	42.80/42.93	3.25/3.51 mm		1.550	39.37	7000	480	BS400030
1.685/1.690	42.80/42.93	.092/.102	2.34/2.60	1.550	39.37	7000	480	BS400031
1.750/1.755	44.45/44.58			1.640	41.66	5900	405	BS400016
1.880/1.885	47.75/47.88			1.760	44.70	5800	400	BS400017
2.062/2.067	52.38/52.50			1.900	48.26	5800	400	BS400032
2.250/2.255	57.15/57.28			2.000	50.80	7700	530	BS400018
2.307/2.312	58.60/58.72			2.110	53.59	5800	400	BS400033
2.500/2.505	63.50/63.63			2.260	57.40	6900	475	BS400019
2.750/2.755	69.85/69.98			2.400	60.96	8300	570	BS400034
2.770/2.775	70.36/70.49			2.520	64.01	6300	430	BS400035
2.875/2.880	73.03/73.15			2.600	66.04	6300	430	BS400036
3.060/3.065	77.72/77.85			2.770	70.36	6300	430	BS400037
3.130/3.135	79.50/79.63			2.870	72.90	6000	410	BS400038
3.555/3.560	90.17/90.30			3.220	81.79	6000	410	BS400039

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

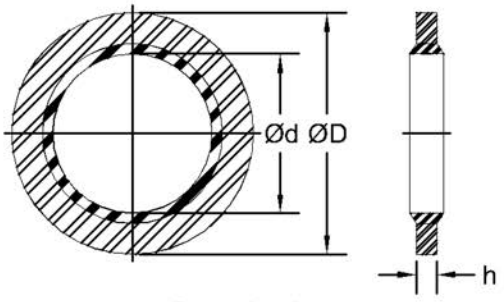
Bonded Seals - Typical Applications



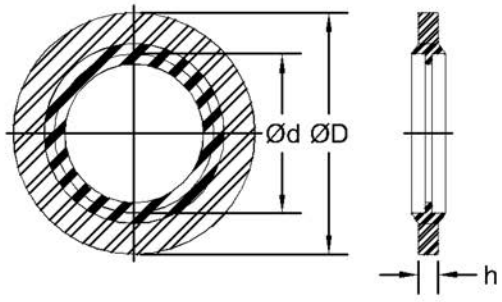
Union



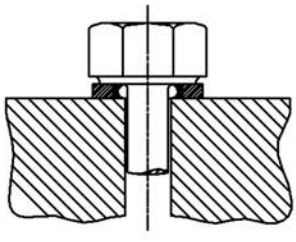
Dome Head



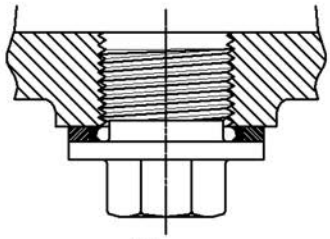
Standard



Self Centering



Bolt Head

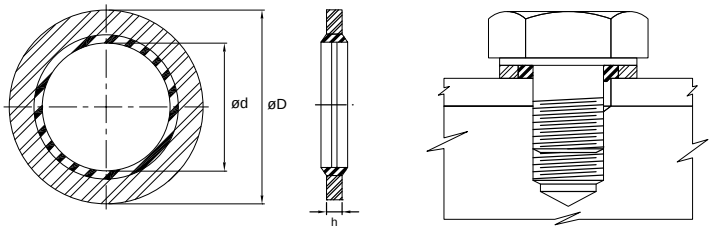


Plug

BS400 - Bonded Seal - Inch



Standard Material	Temperature Range
Carbon Steel/Nitrile	-65°F to +225°F (-54°C to +107°C)



Bonded seals are used to seal off potential leak paths on bolts and other similar fasteners. They are designed to create a predetermined sealing line once the fastener has been tightened, as the rubber element will close off the clearance gap. **Bonded seals** are intended to take the place of an O'Ring in certain assemblies. By using a bonded seal, there is no need to a machine and O'Ring groove in the mating part.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400001*	**0.115**	0.250	0.048	2.48
BS400002	**0.157**	0.286	0.048	2.48
BS400003	**0.200**	0.330	0.048	1.95
BS400004	**0.265**	0.520	0.048	1.95
BS400005*	**0.270**	0.525	0.048	2.77
BS400006	**0.322**	0.525	0.048	2.77
BS400007	**0.335**	0.560	0.048	2.00
BS400008	**0.438**	0.723	0.048	2.11
BS400009	**0.455**	0.750	0.048	2.14
BS400010	**0.580**	0.875	0.080	2.32
BS400011	**0.645**	1.000	0.080	2.41
BS400012	**0.710**	1.000	0.080	2.44
BS400013	**0.950**	1.310	0.092	5.82
BS400014*	**1.150**	1.440	0.092	5.73
BS400015	**1.280**	1.630	0.128	6.55
BS400016*	**1.410**	1.750	0.092	14.07
BS400017*	**1.530**	1.880	0.092	15.53
BS400018*	**1.780**	2.250	0.092	19.15
BS400019*	**2.030**	2.500	0.128	21.38
BS400020	**0.403**	0.625	0.048	2.11

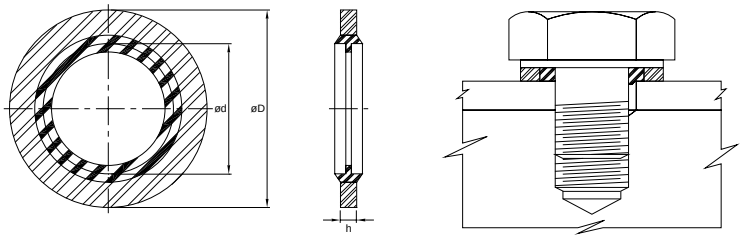
Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400021	**0.536**	0.810	0.080	2.14
BS400022	**0.618**	0.875	0.080	2.37
BS400023	**0.675**	0.937	0.080	2.44
BS400024	**0.770**	1.060	0.080	2.70
BS400025	**0.843**	1.125	0.080	3.02
BS400026*	**0.920**	1.250	0.080	3.32
BS400027	**1.060**	1.375	0.092	4.02
BS400028*	**1.090**	1.520	0.092	5.24
BS400029*	**1.208**	1.500	0.092	6.09
BS400030*	**1.329**	1.685	0.128	6.13
BS400031*	**1.329**	1.685	0.092	7.21
BS400032	**1.685**	2.062	0.092	11.75
BS400033	**1.902**	2.307	0.128	13.64
BS400034*	**2.156**	2.750	0.128	23.03
BS400035*	**2.280**	2.770	0.128	67.86
BS400036*	**2.380**	2.875	0.128	19.25
BS400037*	**2.530**	3.060	0.128	29.60
BS400038*	**2.620**	3.130	0.128	30.90
BS400039*	**2.990**	3.555	0.128	34.62

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

BS400SC series - Self Centering



Standard Material	Temperature Range
Carbon Steel/Nitrile	-65°F to +225°F (-54°C to +107°C)



Bonded seals are used to seal off potential leak paths on bolts and other similar fasteners. They are designed to create a predermined sealing line once the fastener has been tightened, as the rubber element will close off the clearance gap. **Bonded seals** are intended to take the place of an O'Ring in certain assemblies. By using a bonded seal, there is no need to a machine and O'Ring groove in the mating part.

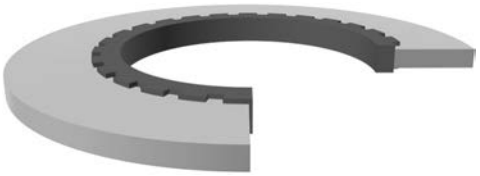
Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

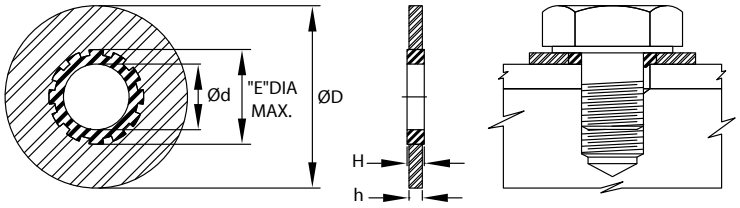
Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400020SC*	**0.403**	0.625	0.048	2.13
BS400021SC	**0.536**	0.810	0.080	2.40
BS400023SC	**0.675**	0.937	0.080	2.68
BS400025SC*	**0.843**	1.125	0.080	3.16
BS400026SC*	**0.920**	1.250	0.080	4.05
BS400027SC*	**1.060**	1.375	0.092	4.29

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400029SC*	**1.208**	1.500	0.092	6.25
BS400030SC*	**1.329**	1.685	0.128	6.66
BS400032SC*	**1.685**	2.062	0.092	12.98
BS400033SC*	**1.902**	2.307	0.092	15.14
BS400036SC*	**2.380**	2.875	0.128	38.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**







Standard Material	Temperature Range
Zinc Plated Steel/ Nitrile	-30°F to +225°F (-34°C to +107°C)

Fastener Seals are primarily used to seal bolts around the smooth area of the bolt shaft. They feature an elastomeric sealing element molded in place inside a metal retainer. It offers a one-piece sealing unit that avoids having to machine an O'Ring groove in the mating hardware.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
600-001-6*	**0.130**	0.385	0.040	2.39
600-001-8*	**0.156**	0.385	0.040	2.17
600-001-10	**0.180**	0.443	0.050	2.04
600-001-10OS*	**0.186**	0.468	0.050	2.04
600-001-0250	**0.240**	0.505	0.050	2.04
600-001-0250OS*	**0.245**	0.531	0.050	2.17
600-001-0312	**0.301**	0.603	0.050	2.22
600-001-0375	**0.364**	0.666	0.050	2.45

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
600-001-0437*	**0.427**	0.760	0.050	2.97
600-001-0500	**0.490**	0.880	0.050	3.19
600-001-0562	**0.552**	1.067	0.050	12.66
600-001-0625	**0.615**	1.193	0.050	4.26
600-001-0750	**0.740**	1.322	0.064	7.21
600-001-0875*	**0.864**	1.510	0.064	8.29
600-001-1000	**0.988**	1.760	0.064	10.38

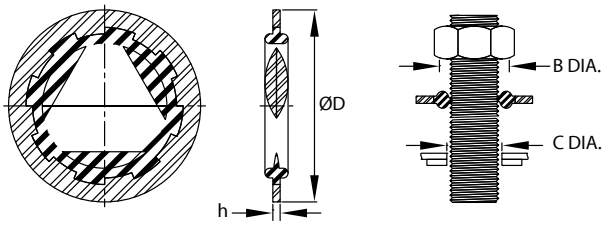
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Fastener Size (Dash Number)	The Major Diameter (Ref)	d +/- .010	E Diameter Maximum	D +/- .010	h	H	Diametral Clearance (Ref .)
-6	0.138	0.130	0.229	0.385	.040 +/- .004	.050 +/- .003	1/64 MAX.
-8	0.164	0.156	0.255	0.385	.040 +/- .004	.050 +/- .003	1/64 MAX.
-10	0.190	0.180	0.317	0.443	.040 +/- .004	.050 +/- .003	1/64 MAX.
-10 O.S.	0.190	0.186	0.367	0.468	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-1/4	0.250	0.240	0.381	0.505	.050 +/- .005	.072 +/- .005	1/64 MAX.
-1/4 O.S.	0.250	0.245	0.422	0.531	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-5/16	0.312	0.301	0.488	0.603	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-3/8	0.375	0.364	0.546	0.666	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-7/16	0.438	0.427	0.618	0.760	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-1/2	0.500	0.490	0.696	0.880	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-9/16	0.562	0.552	0.759	1.067	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-5/8	0.625	0.615	0.818	1.193	.050 +/- .005	.072 +/- .005	1/64 TO 1/32
-3/4	0.750	0.740	0.982	1.322	.064 +/- .005	.096 +/- .005	1/64 TO 1/32
-7/8	0.875	0.864	1.105	1.510	.064 +/- .005	.096 +/- .005	1/64 TO 1/32
-1	1.000	0.988	1.234	1.760	.064 +/- .005	.096 +/- .005	1/64 TO 1/32

7500 - Threadseal - Inch



Standard Material	Temperature Range
Steel/Nitrile	-30°F to +225°F (-34°C to +107°C)



Similar in design to the 600-series **Fastener Seal**, the **Thread Seal** features a triangular sealing element that allows it to seal anywhere along the threaded surface of the mating fastener.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
7500-6*		0.406	0.051	5.45
7500-8*		0.406	0.051	5.45
7500-10*		0.469	0.051	5.00
7500-250*		0.562	0.051	5.00
7500-312*		0.687	0.064	6.24
7500-375		0.750	0.064	8.81
7500-437*		0.906	0.078	9.09
7500-500		1.000	0.078	9.09
7500-562*		1.094	0.094	9.80

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
7500-625		1.187	0.094	11.49
7500-750		1.375	0.109	15.74
7500-875*		1.562	0.109	32.87
7500-1000		1.750	0.120	43.61
7500-1125*		1.875	0.120	66.27
7500-1250*		2.000	0.120	73.23
7500-1375*		2.125	0.120	76.59
7500-1500*		2.250	0.120	79.68

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Size (Dash Number)	Min. Dia of Matting Surfaces	Recommended Clearance Diameter	Min. C'Bore Depth or Washer THK	Dia. of C'SK Per MS20002C	Close Fitting Hole Dia. Per MS20002C
-6.	3/8	.143/.149	1/64	.212/.222	.140/.148
-8	3/8	.170/.177	1/64	.238/.248	.166/.174
-10	3/8	.198/.206	1/64	.264/.274	.192/.200
-1/4	7/16	.260/.271	1/32	.334/.344	.252/.260
-5/16	1/2	.327/.339	1/32	.396/.406	.315/.324
-3/8	5/8	.392/.406	1/32	.483/.495	.378/.388
-7/16	11/16	.458/.474	3/64	.543/.557	.441/.451
-1/2	3/4	.523/.541	3/64	.604/.620	.504/.515
-9/16	7/8	.598/.609	3/64	.667/.687	.562/.579
-5/8	1	.654/.676	1/16	.765/.785	.631/.643
-3/4	1 1/8	.788/.812	1/16	.890/.910	.757/.770
-7/8	1 1/4	.921/.947	3/32	1.015/1.035	.884/.897
-1	1 7/16	1.054/1.082	3/32	1.140/1.160	1.010/1.025
-1 1/8	1 9/16	1.187/1.217	3/32	1.265/1.285	1.135/1.150
-1 1/4	1 11/16	1.321/1.353	1/8	1.427/1.447	1.260/1.275
-1 3/8	1 13/16	1.454/1.488	1/8	1.552/1.572	1.385/1.400
-1 1/2	1 15/16	1.587/1.623	1/8	1.677/1.697	1.510/1.525
-1 5/8	2 3/16	1.721/1.758	5/32		
-1 3/4	2 3/8	1.855/1.893	5/32		

OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.





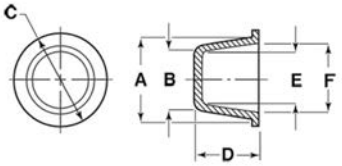


	CAPS & PLUGS TAPERED	H	2
	CAPS & PLUGS **OR** SERIES	H	4
	CAPS & PLUGS **BFP/XP SERIES**	H	4
	CAPS & PLUGS **T SERIES**	H	5
	CAPS & PLUGS **TH** SERIES	H	5
	CAPS & PLUGS **G** SERIES	H	6
	CAPS & PLUGS **TP** SERIES	H	6
	CAPS & PLUGS **TMO** SERIES	H	7
	R.RINGS PROFILES	H	8
	RETAINING RINGS **N1300**	H	9
	RETAINING RINGS **N1400**	H	10
	R.RINGS SELECTION GUIDE	H	12
	RETAINING RINGS **VH**	H	15
	RETAINING RINGS **WH**	H	17
	RETAINING RINGS **WHM**	H	21
	RETAINING RINGS **WHT**	H	24
	RETAINING RINGS **VS**	H	26
	RETAINING RINGS **WS**	H	28
	RETAINING RINGS **WSM**	H	32
	RETAINING RINGS **WST**	H	35
INFO	V-RINGS	H	38
	TYPE A	H	39
	TYPE L	H	43
	TYPE S	H	46
	HARDENED STEEL SHIMS	H	49
	HARDENED STEEL WASHER	H	50
	NYLON PLUG	H	51
	COTTER PIN	H	51
	ROLL PIN FASTENER	H	51
	STEEL CHROME BALLS	H	52
	HYDRAULIC WAVE SPRING	H	52
	SPU SHIPPING PLATE	H	54

Tapered Caps and Plugs



Standard Material	Standard Color
Low density Polyethylene	Blue



Our selection of protective caps and plugs serves many different applications and industries. Guard pipes against contaminants, protect vital components during shipment and storage, and mask threads during finishing processes with our range of protection products. Most Essentra standard caps and plugs are in stock, ready for same shipping, and require no minimum quantity.

Protective Caps

Push fit caps are an efficient solution for protecting and masking components from dirt, moisture, and damage. Essentra carries a large selection of cost effective push fit caps suitable for many industries and applications. General purpose caps include, tapered caps, tubed caps, pipe caps, high temperature masking caps, and specialty push fit caps designed for use in the hydraulics industry.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref. Number	Use as a plug A		Use as a plug B		C		D		Use as a cap E		Use as a cap F		Common uses/plugs NPT/BSP	Common uses/plugs Standard Thread	Common uses/plugs Metric Thread	Common uses/caps NPT/BSP	Common uses/caps Standard Thread	Common uses/caps Metric Thread	$
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm							
CP-2*	0.240	6.10	0.175	4.45	0.375	9.53	0.375	9.53	0.109	2.77	0.175	4.45	-	-	M6	-	-	M4	0.17
CP-3*	0.268	6.81	0.209	5.31	0.375	9.53	0.375	9.53	0.127	3.23	0.193	4.90	-	-	M8	-	-	M5, M6	0.17
CP-5*	0.302	7.67	0.240	6.10	0.469	11.91	0.375	9.53	0.175	4.45	0.240	6.10	-	5/16"	-	-	-	-	0.17
CP-7*	0.365	9.27	0.300	7.62	0.531	13.49	0.375	9.53	0.234	5.94	0.301	7.65	-	3/8"	-	-	15/64"	-	0.18
CP-7-S*	0.365	9.27	0.330	8.38	0.500	12.70	0.219	5.56	0.266	6.76	0.301	7.65	-	3/8"	-	-	-	-	0.18
CP-7-W*	0.365	9.27	0.300	7.62	0.680	17.27	0.375	9.53	0.234	5.94	0.301	7.65	-	3/8"	-	-	15/64"	-	0.18
CP-8	0.398	10.11	0.330	8.38	0.563	14.29	0.375	9.53	0.275	6.99	0.330	8.38	1/8"		-	M10	-	M8	0.18
CP-9*	0.428	10.87	0.360	9.14	0.594	15.08	0.375	9.53	0.299	7.59	0.365	9.27	-	7/16"	-	-	-	-	0.18
CP-10*	0.460	11.68	0.390	9.91	0.625	15.88	0.375	9.53	0.325	8.26	0.396	10.06	-	-	M12	1/8"	3/8"	M10	0.19
CP-11	0.485	12.32	0.420	10.67	0.594	15.08	0.342	9.53	0.356	9.04	0.421	10.69	1/4"	1/2"	-	1/8"	-	-	0.19
CP-12*	0.512	13.00	0.447	11.35	0.625	15.88	0.406	10.32	0.385	9.78	0.448	11.38	-	-	M14	-	7/16"	-	0.20
CP-13-SP*	0.545	13.84	0.478	12.14	0.719	18.26	0.313	7.94	0.410	10.41	0.480	12.19	-	9/16"	-	-	1/2"	-	0.20
CP-13*	0.547	13.89	0.490	12.45	0.719	18.26	0.500	12.70	0.409	10.39	0.485	12.32	-	9/16"	-	-	1/2"	M12	0.21
CP-13-W*	0.547	13.89	0.478	12.14	0.875	22.23	0.500	12.70	0.409	10.39	0.485	12.32	-	9/16"	-	-	1/2"	-	0.19
CP-16*	0.620	15.75	0.531	13.49	0.750	19.05	0.500	12.70	0.468	11.89	0.555	14.10	-	5/8"	M16	1/4"	-	-	0.22
CP-17	0.634	16.10	0.550	13.97	0.781	19.84	0.500	12.70	0.485	12.32	0.568	14.43	3/8"	-	-	-	9/16"	M14	0.22
CP-18*	0.675	17.15	0.580	14.99	0.875	22.23	0.531	13.49	0.520	13.21	0.605	15.37	-	-	M18	-	5/8"	M16	0.23
CP-21*	0.728	18.49	0.641	16.28	0.875	22.23	0.500	12.70	0.575	14.61	0.665	16.89	-	3/4"	M18, M20	-	-	-	0.24
CP-22*	0.754	19.15	0.675	17.15	0.875	22.23	0.625	15.88	0.615	15.62	0.690	17.53	-	-	M20	3/8"	-	-	0.25
CP-23	0.785	19.94	0.690	17.53	0.938	23.81	0.625	15.88	0.625	15.88	0.724	18.39	1/2"	-	-	-	-	M18	0.26

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Tapered Caps and Plugs - Numbered series

Ref. Number	Use as a plug								Use as a cap				Common uses/plugs			Common uses/caps			$
	A		B		C		D		E		F								
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	NPT/BSP	Standard Thread	Metric Thread	NPT/BSP	Standard Thread	Metric Thread	
CP-26*	0.825	20.96	0.725	18.42	1.000	25.40	0.500	12.70	0.662	16.81	0.760	19.30	-	-	M22	-	3/4"	-	0.26
CP-26-L*	0.825	20.96	0.725	18.42	0.970	24.64	0.590	14.99	0.662	16.81	0.760	19.30	-	-	-	-	-	3/4"	0.24
CP-27*	0.848	21.54	0.750	19.05	1.031	26.19	0.625	15.88	0.686	17.42	0.777	19.74	-	7/8"	M22	-	-	-	0.28
CP-28*	0.910	23.11	0.802	20.37	1.094	27.78	0.750	19.05	0.725	18.42	0.846	21.49	5/8"	-	M24	1/2"	-	M20	0.30
CP-29*	0.931	23.65	0.820	20.83	1.125	28.58	0.625	15.88	0.754	19.15	0.868	22.05	-	-	-	-	7/8"	-	0.30
CP-30*	0.973	24.71	0.856	21.74	1.125	28.58	0.750	19.05	0.758	19.51	0.906	23.01	3/4"	-	-	-	-	-	0.32
CP-31*	0.975	24.77	0.870	22.10	1.125	28.58	0.625	15.88	0.804	20.42	0.920	23.37	3/4"	-	-	-	-	M22	0.30
CP-35*	1.040	26.42	0.895	22.73	1.140	29.37	0.750	19.05	0.832	21.13	0.975	24.77	3/4"	1-1/16"	M26, M27	5/8"	-	M24	0.34
CP-40*	1.091	27.71	0.966	24.54	1.250	31.75	0.750	19.05	0.902	22.91	1.025	26.04	-	-	M27	-	-	-	0.36
CP-41*	1.145	29.08	1.002	25.45	1.313	33.34	0.750	19.05	0.938	23.83	1.079	27.41	-	-	-	3/4"	1-1/16"	-	0.38
CP-42*	1.230	31.24	1.110	28.19	1.516	38.50	0.750	19.05	1.038	26.37	1.180	29.97	7/8", 1"	-	M25	-	-	M27, M28	0.41
CP-44*	1.285	32.64	1.180	29.97	1.438	36.51	0.750	19.05	1.105	28.07	1.215	30.86	1"	1-5/16"	M32, M33	7/8"	-	M30	0.44
CP-45*	1.350	34.29	1.225	31.12	1.500	38.10	0.750	19.05	1.160	29.46	1.295	32.89	-	-	M35, M36	-	-	M32, M33	0.47
CP-46*	1.350	34.29	1.235	31.37	1.500	38.10	0.750	19.05	1.140	28.96	1.295	32.89	-	-	-	1"	1-5/16"	-	0.46
CP-49*	1.465	37.21	1.311	33.30	1.625	41.28	0.750	19.05	1.249	31.72	1.400	35.56	-	-	M36, M38, M39	1"	-	M35	0.52
CP-53*	1.600	40.64	1.450	36.83	1.750	44.45	0.750	19.05	1.385	35.18	1.535	38.99	1-1/4"	-	M39, M40, M42	1-1/8"	-	M38	0.58
CP-54*	1.602	40.69	1.520	38.61	1.750	44.45	0.750	19.05	1.456	36.98	1.537	39.04	-	1-5/8"	-	-	-	-	0.58
CP-55*	1.673	42.49	1.560	39.62	1.875	47.63	0.750	19.05	1.497	38.02	1.620	41.15	-	1-3/4"	M54	1-1/4"	1-5/8"	M39, M40	0.62
CP-56*	1.750	44.45	1.606	40.79	1.938	49.21	0.750	19.05	1.568	39.83	1.685	42.80	-	-	M45	1-1/4"	-	M42	0.66
CP-57*	1.870	47.50	1.735	44.07	2.031	51.60	0.750	19.05	1.675	42.55	1.820	46.23	1-1/2"	1-7/8"	M48	-	-	M45	0.73
CP-58*	1.958	49.73	1.806	45.87	2.125	53.98	1.000	25.40	1.745	44.32	1.893	48.08	-	-	M48	1-1/2"	1-7/8"	-	0.82
CP-60*	2.020	51.31	1.846	46.89	2.125	53.98	1.000	25.40	1.785	45.34	1.938	49.23	-	-	-	1-1/2"	-	-	0.86
CP-62*	2.085	52.96	1.902	48.31	2.250	57.15	1.000	25.40	1.839	46.71	2.015	51.18	-	-	M52	-	-	M48	0.90
CP-66*	2.253	57.23	2.062	52.37	2.438	61.91	1.031	26.20	2.000	50.80	2.175	55.25	-	2-1/4"	M55, M56	1-3/4"	-	-	0.97
CP-68*	2.279	57.90	2.224	56.50	2.500	63.50	0.500	12.70	2.150	54.60	2.221	56.41	2"	-	-	-	-	-	0.97
CP-67*	2.355	59.82	2.156	54.76	2.625	66.68	1.000	25.40	2.084	52.93	2.288	58.12	2"	-	M58, M60	-	2-1/4"	M58	1.10
CP-71*	2.485	63.12	2.300	58.42	2.625	66.68	1.000	25.40	2.235	56.77	2.400	60.96	-	-	M60, M62	2"	-	-	1.20
CP-73*	2.605	66.17	2.395	60.83	2.625	66.68	1.000	25.40	2.331	59.21	2.541	64.54	-	-	-	-	2-1/2"	-	1.30
CP-78*	2.805	71.25	2.645	67.18	3.000	76.20	0.500	12.70	2.580	65.53	2.725	69.22	2-1/2"	-	-	-	-	-	1.39
CP-82*	2.980	75.69	2.850	72.39	3.250	82.55	0.750	19.05	2.785	70.74	2.920	74.17	-	3"	-	-	-	-	1.60
CP-81*	3.000	76.20	2.720	69.09	3.125	79.38	1.000	25.40	2.626	66.70	2.950	74.93	-	-	M75, M76	2-1/2"	-	-	1.66

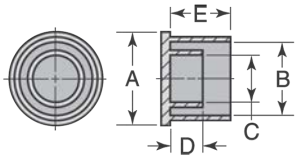
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Tapered Caps and Plugs - OR series



Standard Material	Standard Color
Low density Polyethylene	Blue



Ref. Number	To Fit Thread	A		B		C		D		E		$
		inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
CP-OR-4*	**9/16"-18**	0.875	22.23	0.768	19.51	0.500	12.70	0.326	8.28	0.578	14.68	1.10
CP-OR-6*	**11/16"-16**	1.000	25.40	0.901	22.89	0.594	15.08	0.370	9.40	0.672	17.07	1.19
CP-OR-8*	**13/16"-16**	1.156	29.37	1.053	26.75	0.750	19.05	0.430	10.92	0.828	21.03	1.30
CP-OR-10*	**1"-14**	1.375	34.93	1.255	31.88	0.906	23.02	0.530	13.46	0.922	23.42	1.57
CP-OR-12*	**1-3/16"-12**	1.625	41.28	1.530	38.86	1.094	27.78	0.560	14.48	1.031	26.19	1.69
CP-OR-16*	**1-7/16"-12**	1.844	46.83	1.804	45.82	1.344	34.13	0.580	14.73	1.094	27.78	2.66
CP-OR-20*	**1-11/16"-12**	2.125	53.98	2.093	53.16	1.594	40.48	0.580	14.73	1.094	27.78	6.66
CP-OR-24*	**2"-12**	2.688	68.26	2.520	64.01	1.875	47.63	0.580	14.73	1.094	27.78	7.95

Tapered Caps and Plugs - BFP/XP series



Standard Material	Standard Color	Specification
Low density Polyethylene	3000lb - Blue 6000lb - Red	Provided face coverage with lugs firmly positioned into bolt holes.

Used on 3000lb	$
CP-BFP-1/2*	3.42
CP-BFP-3/4*	2.45
CP-BFP-1*	2.62
CP-BFP-1-1/4*	2.78
CP-BFP-1-1/2*	2.96
CP-BFP-2*	3.28
CP-BFP-2-1/2*	3.28

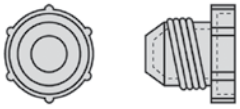
Used on 6000lb	$
-	
CP-XP-3/4*	2.45
CP-XP-1*	2.62
CP-XP-1-1/4*	2.78
CP-XP-1-1/2*	2.96
CP-XP-2*	3.28
-	

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Threaded Plugs - T series



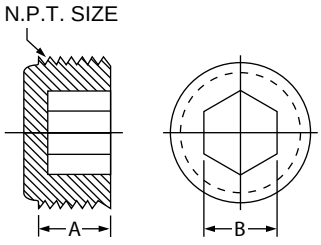
Standard Material	Standard Color	Specification
Low density Polyethylene	Red	Conforms to Mil-C5501, with exceptions of Flare Angle variance of 2°



Reference Number	Tubing Size (inches)	SAE Thread Size	SAE/JIC Fitting Size	$
CP-T-1*	1/8	5/16"-24	2	0.53
CP-T-2*	3/16	3/8"-24	3	0.54
CP-T-3*	1/4	7/16"-20	4	0.56
CP-T-4*	5/16	1/2"-20	5	0.61
CP-T-5*	3/8	9/16"-18	6	0.76
CP-T-7*	1/2	3/4"-16	8	0.77
CP-T-8*	5/8	7/8"-14	10	0.89
CP-T-9	3/4	1-1/16"-12	12	1.03
CP-T-12*	1	1-5/16"-12	16	1.29
CP-MPN-261*	1-1/4	1-5/8"-12	20	1.92

Threaded (npt) Plugs - TH series





Standard Material	Standard Color
High-density Polyethylene	Black - Applicable Spec; MIL-C-5501/5

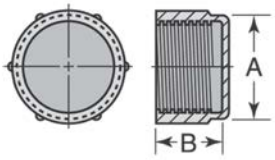
Reference Number	Plug NPT Thread Size	Dimensions A		B		$
		inches	mm	inches	mm	
CP-TH-3*	1/4	0.312	7.87	0.250	6.35	1.54
CP-TH-5*	3/8	0.375	9.65	0.312	7.87	2.04
CP-TH-7*	1/2	0.375	9.65	0.375	9.65	3.86
CP-TH-9*	3/4	0.500	12.70	0.557	14.22	4.05
CP-TH-11*	1	0.531	13.46	0.625	16.00	5.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Threaded Cap - G series



Standard Material	Standard Color
Low density Polyethylene	Blue

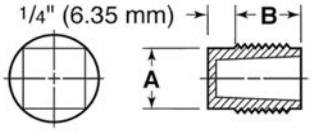


Ref. Number	Standard Thread Size	Tubing O.D. Size		A		B		$
		inches	mm	inches	mm	inches	mm	
CP-G-2*	**7/16" - 20**	0.250	6.35	0.500	12.70	0.500	12.70	0.34
CP-G-8*	**9/16" - 18**	0.375	9.53	0.625	15.88	0.500	12.70	0.34
CP-G-14*	**3/4" - 16**	0.500	12.70	0.813	20.64	0.625	15.88	0.39
CP-G-17*	**7/8" - 14**	0.625	15.88	0.938	23.81	0.719	18.26	0.45
CP-G-22*	**1 1/16" - 12**	0.750	19.05	1.125	28.58	0.813	20.64	0.47
CP-G-25*	**1 3/16" - 12**	0.875	7.14	1.250	31.75	0.938	23.81	0.56
CP-G-27*	**1 5/16" -12**	1.000	25.40	1.375	34.93	0.875	22.23	0.56

Threaded (npt) Plugs - TP series



Standard Material	Standard Color
High density Polyethylene	Blue



Ref. Number	Standard Thread Size	Dimensions A		B		$
		inches	mm	inches	mm	
CP-TP-1*	**1/8"**	0.281	7.14	0.375	9.53	0.61
CP-TP-3*	**1/4"**	0.375	9.53	0.437	11.11	0.66
CP-TP-5*	**3/8"**	0.437	11.11	0.500	12.70	1.10
CP-TP-7*	**1/2"**	0.562	14.29	0.562	14.29	1.19

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

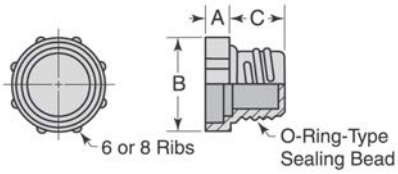
Threaded (npt) Plugs - TP series

Ref. Number	Standard Thread Size	Dimensions A		B		$
		inches	mm	inches	mm	
CP-TP-9*	**3/4"**	0.687	17.46	0.625	15.88	1.80
CP-TP-11*	**1"**	0.750	19.05	0.375	9.53	2.66
CP-TP-13*	**1 1/4"**	1.000	25.40	0.830	21.08	4.16
CP-TP-15*	**1 1/2"**	1.250	31.75	0.830	21.08	4.72

Threaded Plugs - TMO series



Standard Material	Couleur standard
Low density Polyethylene	Red



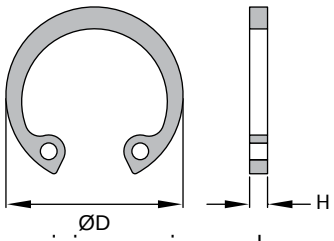
Ref. Number	Standard Thread Size	Tubing O.D. Size		A		B		$
		inches	mm	inches	mm	inches	mm	
CP-TMO-104*	**7/16" - 20**	0.320	8.13	0.650	16.50	0.380	9.65	0.70
CP-TMO-105*	**1/2" - 20**	0.320	8.13	0.720	18.20	0.380	9.65	0.77
CP-TMO-106*	**9/16" - 18**	0.360	9.14	0.780	19.80	0.380	9.65	0.90
CP-TMO-108*	**3/4" - 16**	0.400	10.16	0.980	24.80	0.380	9.65	0.94
CP-TMO-110*	**7/8" - 14**	0.450	11.43	1.110	28.20	0.380	9.65	1.10
CP-TMO-112*	**1-1/16" - 12**	0.620	15.75	1.310	33.20	0.380	9.65	1.32
CP-TMO-116*	**1-5/16" - 12**	0.620	15.75	1.560	39.60	0.380	9.65	1.62
CP-TMO-120*	**1-5/8" - 12**	0.620	15.75	1.880	47.70	0.380	9.65	2.43

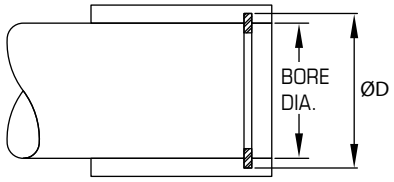
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SHIMS 	SUPPORT RINGS 	D1300 	D1400 	N1300 	N1400 
D1460 	N1460 	B1500 	D1500 	N1500 	N1501 
N1540 	N1800 	A1500 'U' 	A1500 'C' 	A1500 'S' 	M1800 
D2000 	D2100 	M3200 	M2300 	M2400 	A0500 
A0600 	A0700 	A0900 	A1000 	M2500 	A1100 
A1200 	M1700 	N1302 	M1440 	N1440 	N1305 
M1465 	N1465 	M1308 	M1408 	N1308 	N1408 PAGE 41 
PLIERS 	APPLICATORS 	STACKFEEDAS 	VISIPACKS 		

N1300 - Retaining rings - Internal







Standard Material
Carbon Steel

Retaining rings are precision engineered components that are designed to be applied on shafts or in bores and provide a shoulder that accurately positions, locates and retains other parts of an assembly.

Many different types of retaining rings have been developed over the years, each a solution to a specific problem. Different types of rings are available to solve issues such as: tolerance take-up, clearance diameter, thrust load capacity, flexible installation, rpm capacity, impact loading, non-removable lock-rings, grove-less-push-on fastening and radial installation.

Retaining rings work by creating a shoulder that can hold components in place. The retaining shoulder is created when the ring attaches itself to the bore or shaft, typically by snapping into a groove. Ordinarily (however not always) a groove is dug into the shaft or bore, and this groove becomes the seat for the retaining ring. Retaining rings are designed such that their contact diameter has some interference fit with the groove in which they fit. This creates a "snug" fit between the ring and groove.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		D	H	
N1300-0025*	**0.250**	0.280	0.015	0.98
N1300-0031	**0.312**	0.346	0.015	0.98
N1300-0037	**0.375**	0.415	0.025	0.98
N1300-0043	**0.437**	0.482	0.025	0.98
N1300-0045*	**0.453**	0.498	0.025	1.19
N1300-0050	**0.500**	0.548	0.035	0.98
N1300-0051*	**0.512**	0.560	0.035	0.98
N1300-0056	**0.562**	0.620	0.035	0.98
N1300-0062	**0.625**	0.694	0.035	0.98
N1300-0068	**0.687**	0.763	0.035	0.98
N1300-0075	**0.750**	0.831	0.035	1.02
N1300-0077*	**0.777**	0.859	0.042	1.02
N1300-0081	**0.812**	0.901	0.042	1.02
N1300-0086*	**0.866**	0.961	0.042	1.02
N1300-0087	**0.875**	0.971	0.042	1.02
N1300-0090	**0.901**	1.000	0.042	1.02
N1300-0093	**0.937**	1.041	0.042	1.02
N1300-0100	**1.000**	1.111	0.042	1.02
N1300-0102*	**1.023**	1.136	0.042	1.02
N1300-0106	**1.062**	1.180	0.050	1.02
N1300-0112	**1.125**	1.249	0.050	1.07
N1300-0118	**1.187**	1.319	0.050	1.65

Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		D	H	
N1300-0125	**1.250**	1.388	0.050	1.65
N1300-0131	**1.312**	1.456	0.050	1.65
N1300-0137	**1.375**	1.526	0.050	1.65
N1300-0143	**1.437**	1.596	0.050	1.65
N1300-0145*	**1.456**	1.616	0.050	1.65
N1300-0150	**1.500**	1.660	0.050	1.65
N1300-0156	**1.562**	1.734	0.062	2.26
N1300-0162	**1.625**	1.804	0.062	2.26
N1300-0165	**1.653**	1.835	0.062	2.26
N1300-0168*	**1.687**	1.874	0.062	4.26
N1300-0175	**1.750**	1.942	0.062	4.26
N1300-0181	**1.812**	2.012	0.062	4.26
N1300-0185*	**1.850**	2.054	0.062	4.26
N1300-0187	**1.875**	2.072	0.062	4.26
N1300-0193	**1.937**	2.141	0.062	4.26
N1300-0200	**2.000**	2.210	0.062	4.26
N1300-0206	**2.062**	2.280	0.078	4.54
N1300-0212	**2.125**	2.350	0.078	4.84
N1300-0218	**2.187**	2.415	0.078	4.84
N1300-0225	**2.250**	2.490	0.078	4.84
N1300-0231	**2.312**	2.560	0.078	4.84
N1300-0237	**2.375**	2.630	0.078	4.84

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

N1300 series - Retaining rings - Internal

Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		D	H	
N1300-0244	**2.440**	2.702	0.078	5.01
N1300-0250	**2.500**	2.775	0.078	5.38
N1300-0256	**2.562**	2.844	0.093	6.20
N1300-0262	**2.625**	2.910	0.093	9.99
N1300-0268	**2.687**	2.980	0.093	9.99
N1300-0275	**2.750**	3.050	0.093	9.99
N1300-0281	**2.812**	3.121	0.093	11.09
N1300-0287	**2.875**	3.191	0.093	11.09
N1300-0300	**3.000**	3.325	0.093	11.09
N1300-0306	**3.062**	3.418	0.109	11.09
N1300-0312	**3.125**	3.488	0.109	12.55
N1300-0315	**3.156**	3.523	0.109	12.55
N1300-0325	**3.250**	3.623	0.109	13.12
N1300-0334*	**3.346**	3.734	0.109	6.55
N1300-0347	**3.437**	3.857	0.109	13.12
N1300-0350	**3.500**	3.890	0.109	13.12
N1300-0354	**3.543**	3.936	0.109	13.47
N1300-0362	**3.625**	4.024	0.109	14.86
N1300-0375	**3.750**	4.157	0.109	15.12
N1300-0387	**3.875**	4.291	0.109	15.94
N1300-0393	**3.937**	4.358	0.109	15.94
N1300-0400	**4.000**	4.424	0.109	15.94
N1300-0412	**4.125**	4.558	0.109	19.14
N1300-0425	**4.250**	4.691	0.109	19.14
N1300-0433	**4.331**	4.756	0.109	19.14
N1300-0450	**4.500**	4.940	0.109	19.14

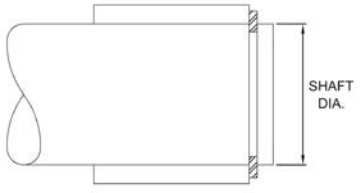
Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		D	H	
N1300-0462	**4.625**	5.076	0.109	22.00
N1300-0475	**4.750**	5.213	0.109	23.89
N1300-0500	**5.000**	5.485	0.109	24.47
N1300-0525	**5.250**	5.770	0.125	24.76
N1300-0537*	**5.375**	5.910	0.125	24.76
N1300-0550	**5.500**	6.066	0.125	28.69
N1300-0575	**5.750**	6.336	0.125	28.69
N1300-0600	**6.000**	6.620	0.125	43.99
N1300-0625	**6.250**	6.895	0.156	71.23
N1300-0650	**6.500**	7.170	0.156	73.42
N1300-0662*	**6.625**	7.308	0.156	73.42
N1300-0675*	**6.750**	7.445	0.156	73.42
N1300-0700	**7.000**	7.720	0.156	111.56
N1300-0725	**7.250**	7.995	0.187	111.56
N1300-0750*	**7.500**	8.270	0.187	111.56
N1300-0775	**7.750**	8.545	0.187	130.50
N1300-0800	**8.000**	8.820	0.187	142.56
N1300-0825*	**8.250**	9.095	0.187	170.01
N1300-0850	**8.500**	9.285	0.187	208.64
N1300-0875	**8.750**	9.558	0.187	208.64
N1300-0900	**9.000**	9.830	0.187	237.40
N1300-0925	**9.250**	10.102	0.187	249.66
N1300-0950*	**9.500**	10.375	0.187	305.56
N1300-0975*	**9.750**	10.648	0.187	327.01
N1300-1000*	**10.000**	10.920	0.187	327.01

N1400 series - Retaining rings - External









Standard Material
Carbon Steel

Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		d	H	
N1400-0012*	**0.125**	0.112	0.010	0.87
N1400-0015*	**0.156**	0.142	0.010	0.87
N1400-0018	**0.187**	0.168	0.015	0.87

Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		d	H	
N1400-0019*	**0.197**	0.179	0.015	0.87
N1400-0021*	**0.219**	0.196	0.015	0.87
N1400-0023*	**0.236**	0.215	0.015	0.87

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

N1400 series - Retaining rings - External

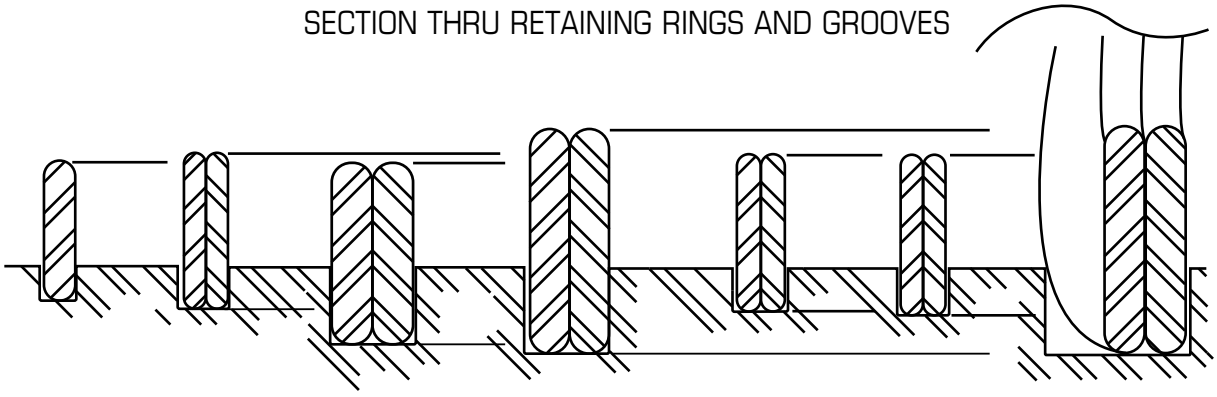
Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		d	H	
N1400-0025*	**0.250**	0.225	0.025	0.87
N1400-0027*	**0.276**	0.250	0.025	0.87
N1400-0028*	**0.281**	0.256	0.025	0.87
N1400-0031	**0.312**	0.281	0.025	0.87
N1400-0034*	**0.344**	0.309	0.025	0.87
N1400-0035*	**0.354**	0.320	0.025	0.87
N1400-0037	**0.375**	0.338	0.025	0.87
N1400-0039*	**0.394**	0.354	0.025	0.87
N1400-0040*	**0.406**	0.366	0.025	0.87
N1400-0043	**0.437**	0.395	0.025	0.87
N1400-0046*	**0.461**	0.428	0.025	O/R
N1400-0050	**0.500**	0.461	0.035	1.09
N1400-0055*	**0.551**	0.509	0.035	O/R
N1400-0056	**0.562**	0.521	0.035	1.09
N1400-0059*	**0.594**	0.550	0.035	1.09
N1400-0062	**0.625**	0.579	0.035	1.09
N1400-0066*	**0.669**	0.621	0.035	1.09
N1400-0068	**0.687**	0.635	0.042	1.09
N1400-0075	**0.750**	0.693	0.042	1.09
N1400-0078*	**0.781**	0.722	0.042	1.09
N1400-0081	**0.812**	0.751	0.042	1.13
N1400-0087	**0.875**	0.810	0.042	1.13
N1400-0093	**0.937**	0.867	0.042	1.13
N1400-0098	**0.984**	0.910	0.042	1.13
N1400-0100	**1.000**	0.925	0.042	1.19
N1400-0102*	**1.023**	0.946	0.042	1.19
N1400-0106*	**1.062**	0.982	0.050	1.19
N1400-0112	**1.125**	1.041	0.050	1.63
N1400-0118	**1.187**	1.098	0.050	1.63
N1400-0125	**1.250**	1.156	0.050	1.63
N1400-0131	**1.312**	1.214	0.050	1.63
N1400-0137	**1.375**	1.272	0.050	1.63
N1400-0143	**1.437**	1.333	0.050	1.63
N1400-0150	**1.500**	1.387	0.050	1.73
N1400-0156	**1.562**	1.446	0.062	1.73
N1400-0162*	**1.625**	1.503	0.062	2.33
N1400-0168	**1.687**	1.560	0.062	2.33
N1400-0175	**1.750**	1.618	0.062	2.93
N1400-0177	**1.772**	1.618	0.062	2.93
N1400-0181	**1.812**	1.675	0.062	2.93
N1400-0187	**1.875**	1.735	0.062	2.93
N1400-0196*	**1.969**	1.819	0.062	4.50
N1400-0200	**2.000**	1.850	0.062	4.50
N1400-0206*	**2.062**	1.906	0.078	4.50
N1400-0212	**2.125**	1.964	0.078	5.22
N1400-0215	**2.156**	1.993	0.078	5.22

Ref.Number	Bore dia.	Nominal Bearing Dimensions		$
		d	H	
N1400-0225	**2.250**	2.081	0.078	5.22
N1400-0231	**2.312**	2.139	0.078	5.22
N1400-0237	**2.375**	2.197	0.078	5.22
N1400-0243	**2.437**	2.255	0.078	5.22
N1400-0250	**2.500**	2.313	0.078	9.87
N1400-0255	**2.559**	2.377	0.078	9.87
N1400-0262	**2.625**	2.428	0.078	9.90
N1400-0268*	**2.687**	2.485	0.078	9.90
N1400-0275	**2.750**	2.543	0.093	10.02
N1400-0287	**2.875**	2.659	0.093	10.58
N1400-0293	**2.937**	2.717	0.093	10.58
N1400-0300	**3.000**	2.775	0.093	10.58
N1400-0306*	**3.062**	2.832	0.093	10.58
N1400-0312*	**3.125**	2.892	0.093	10.58
N1400-0315	**3.156**	2.920	0.093	10.58
N1400-0325	**3.250**	3.006	0.093	14.80
N1400-0334*	**3.346**	3.092	0.093	16.23
N1400-0343	**3.437**	3.179	0.093	17.35
N1400-0350	**3.500**	3.237	0.109	18.70
N1400-0354*	**3.543**	3.277	0.109	19.82
N1400-0362*	**3.625**	3.352	0.109	21.64
N1400-0368*	**3.687**	3.410	0.109	22.27
N1400-0375*	**3.750**	3.468	0.109	23.34
N1400-0387*	**3.875**	3.584	0.109	24.08
N1400-0393*	**3.937**	3.642	0.109	26.70
N1400-0400	**4.000**	3.700	0.109	27.20
N1400-0425	**4.250**	3.989	0.109	29.43
N1400-0437*	**4.375**	4.106	0.109	31.76
N1400-0450*	**4.500**	4.223	0.109	35.68
N1400-0475*	**4.750**	4.458	0.109	40.61
N1400-0500	**5.000**	4.692	0.109	47.52
N1400-0525*	**5.250**	4.927	0.125	55.74
N1400-0550*	**5.500**	5.162	0.125	70.57
N1400-0575*	**5.750**	5.396	0.125	82.00
N1400-0600*	**6.000**	5.631	0.125	92.44
N1400-0625*	**6.250**	5.866	0.156	112.31
N1400-0650*	**6.500**	6.100	0.156	122.21
N1400-0675	**6.750**	6.335	0.156	130.37
N1400-0700	**7.000**	6.570	0.156	136.35
N1400-0750*	**7.500**	7.039	0.187	204.36
N1400-0800*	**8.000**	7.508	0.187	233.08
N1400-0850*	**8.500**	7.977	0.187	275.26
N1400-0900*	**9.000**	8.445	0.187	346.32
N1400-0950*	**9.500**	8.915	0.187	347.16
N1400-1000*	**10.000**	9.385	0.187	418.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

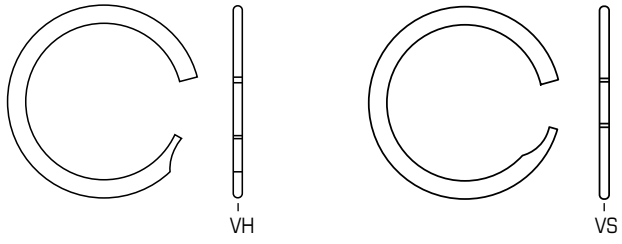
Relative proportions of retaining rings with same house bore or shaft dimension.

SECTION THRU RETAINING RINGS AND GROOVES



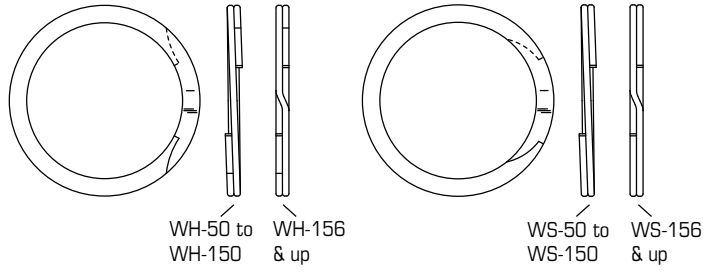
VH & VS Ligh Duty Series	**WH & WS** Medium Duty Series	**WHT & WST** Medium Heavy Duty Series	**WHM & WSM** Heavy Duty Series	**DNH & DNS** DIN Metric Series	**EH & ES** Metric Aerospace Series	**WHW & WSW** WaveRing Series

VH & VS Light Duty Series



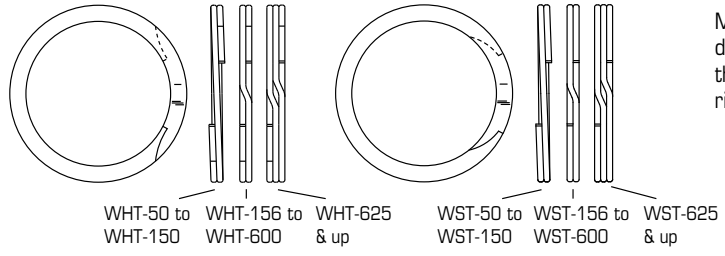
Single-turn retaining rings with narrow radial wall dimensions are recommended for light-duty, low clearance applications, or where axial positioning rather than load carryingvis the principal function. Low-cost and easy to use, these rings are ideal for ball or roller bearing applications or other uses where thrust loads are moderate.

WH & WS Medium Duty Series



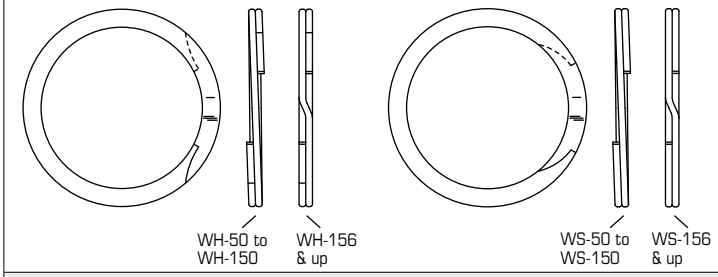
This popular series is cataloged in the greatest number of standard retaining ring sizes. Smalley WH and WS rings easily handle thrust loads imposed by light or medium series bearings. These rings are covered by military and aerospace specifications and are available in more sizes than any other Smalley series. Specify on purchase order if rings are to conform to military or aerospace standards.

WHT & WST Medium Heavy Duty Series



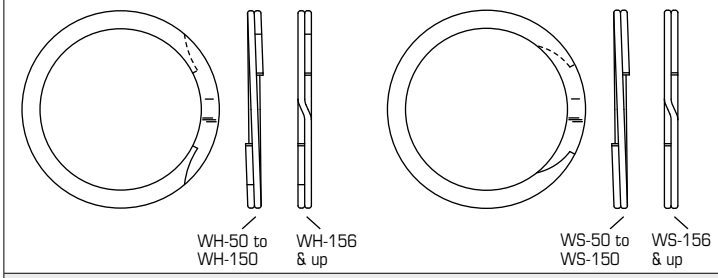
Many original equipement manufacturers have set groove dimensions specifically for these series. While easier to install, this series has load carrying ratings close to our heavy duty ring designs.

WHM & WSM Heavy Duty Series



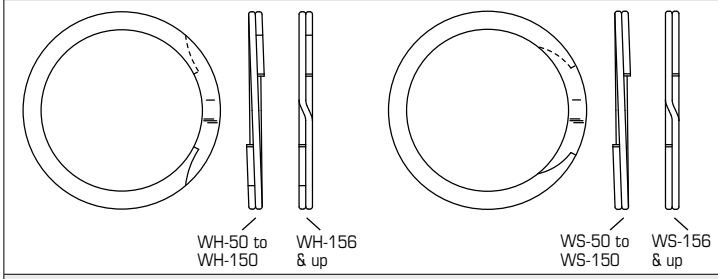
A major segment of Smalley manifacturing is in "special" or prototype retaining rings. Common Smalley specials include balanced, multi-turn (4, 5, 6 turns and more) and special ends in English and metric diameters from 3/8" to 84" and larger.

DNH & DNS DIN Metric Series



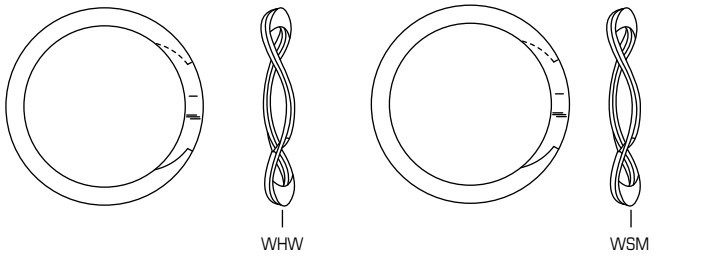
These DIN series retaining ring are Smalley's equivalent to the European or Hard metric retaining rings. With their 2-turn offset configuration, the rings will fit into the grooves established by DIN specifications. They are available in both internal and external sizes from 13 mm to 400mm and are offeres standard in 302 stainless steel.

EH & ES Metric Aerospace Series



Metric retaining rings are Smalley's standard spiral retaining rings produced to Metric Aerospace specifications. They fit grooves specificially designed for 2-turn spiral rings and acommodate light duty through medium duty applications. Using 302 stainless or carbon steel, the external series fits shaft sizes from 12mm to 280mm. The internal series fits housings of the same dimensions.

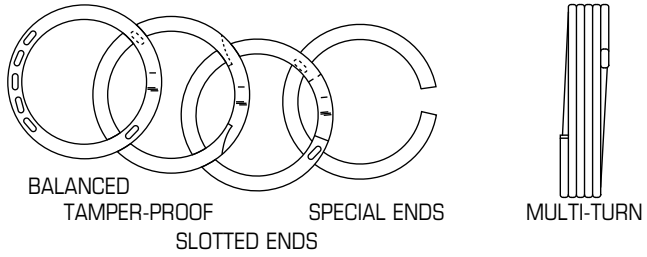
WaveRings®



The WaveRing is a spiral retaining ring with axial wave form. It acts like a standard retaining ring with the additional feature of compressibility. With the assembly under constant pressure, looseness and vibration is eliminated wich reduces manufacturing costs. In addition, the WaveRing compensates for the overall length tolerance of stacked components by always maintaining a load on the assembly.

Designed to fit into a groove, the WaveRing applies pressure in two directions: against the groove wall and against the assembly components.Single, double or multiple turns in the WaveRing are possible as well as a choice of materials, including our standard.
17-7 PH stainless and carbon steel.

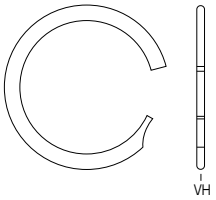
Special Retaining Rings



A major segment of Smalley manufacturing is in "special" or prototype retaining rings. Common Smalley specials include balanced, multi-turn (4, 5, 6 turns and more) and special ends in English and metric diameters from 3/8" to 84" and larger.







Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
VH-25*	**.250**	**.262**	.015	**0.264**	+.010 -.000	.012	+/-.0015	.020	+/- .004	481	106	O/R
VH-31*	**.312**	**.326**	.018	**0.329**		.015		.025	+.004 -.004	750	154	O/R
VH-37*	**.375**	**.395**	.018	**0.398**		.015		.030		901	265	O/R
VH-43*	**.437**	**.463**	.018	**0.466**	+0.12/-0.00	.015		.030		1,050	402	O/R
VH-50*	**.500**	**.528**	.022	**0.531**	+.013 -.000	.018		.045		1,300	500	O/R
VH-56*	**.562**	**.590**	.022	**0.593**		.018		.045		1,460	560	O/R
VH-62*	**.625**	**.653**	.022	**0.656**		.018		.045		1,630	620	O/R
VH-68*	**.687**	**.715**	.022	**0.719**		.018		.045		1,790	680	O/R
VH-75*	**.750**	**.779**	.022	**0.783**		.018		.045		1,950	800	O/R
VH-81*	**.812**	**.854**	.026	**0.862**		.021		.065		2,460	1,210	O/R
VH-87*	**.875**	**.917**	.026	**0.926**		.021		.065		2,660	1,300	O/R
VH-93*	**.937**	**.979**	.026	**0.989**		.021		.065		2,840	1,390	O/R
VH-100*	**1.000**	**1.042**	.026	**1.052**		.021		.065		3,040	1,480	O/R
VH-106*	**1.062**	**1.106**	.031	**1.117**	+.015 -.000	.025		.088		3,500	1,650	O/R
VH-112*	**1.125**	**1.169**	.031	**1.180**		.025		.088		3,710	1,750	O/R
VH-118*	**1.187**	**1.231**	.031	**1.242**		.025		.088		3,920	1,850	O/R
VH-125*	**1.250**	**1.294**	.031	**1.307**		.025		.088		4,120	1,940	O/R
VH-131*	**1.312**	**1.356**	.031	**1.369**		.025		.088		4,330	2,040	O/R
VH-137*	**1.375**	**1.419**	.031	**1.433**		.025		.088		4,540	2,140	1.51
VH-143*	**1.437**	**1.481**	.031	**1.496**		.025		.088		4,740	2,240	O/R
VH-150*	**1.500**	**1.544**	.031	**1.559**		.025		.088		4,950	2,330	1.88
VH-156*	**1.562**	**1.619**	.039	**1.637**	+.020 -.000	.031	+/-.002	.118		6,390	3,200	O/R
VH-162*	**1.625**	**1.682**	.039	**1.701**		.031		.118		6,650	3,330	1.88
VH-168*	**1.687**	**1.744**	.039	**1.763**		.031		.118		6,900	3,460	O/R
VH-175*	**1.750**	**1.807**	.039	**1.827**		.031		.118		7,160	3,590	O/R
VH-181*	**1.812**	**1.869**	.039	**1.890**		.031		.118		7,410	3,710	O/R
VH-187*	**1.875**	**1.932**	.039	**1.953**		.031		.118		7,670	3,840	2.35
VH-193*	**1.937**	**1.994**	.039	**2.016**		.031		.118		7,920	3,970	O/R
VH-200*	**2.000**	**2.057**	.039	**2.079**		.031		.118		8,180	4,100	2.52
VH-206*	**2.062**	**2.138**	.039	**2.162**	+.025 -.000	.031		.158		8,430	5,540	3.69
VH-212*	**2.125**	**2.201**	.039	**2.226**		.031		.158		8,690	5,710	O/R
VH-218*	**2.187**	**2.263**	.039	**2.289**		.031		.158		8,950	5,870	4.75
VH-225*	**2.250**	**2.326**	.039	**2.352**		.031		.158		9,200	6,040	4.79
VH-231*	**2.312**	**2.388**	.039	**2.415**		.031		.158		9,460	6,210	17.03
VH-237*	**2.375**	**2.451**	.039	**2.478**		.031		.158		9,720	6,380	O/R
VH-243*	**2.437**	**2.513**	.039	**2.541**		.031		.158		9,970	6,550	5.77
VH-250*	**2.500**	**2.576**	.039	**2.605**		.031		.158		10,230	6,720	3.56
VH-256*	**2.562**	**2.638**	.039	**2.667**		.031		.158		10,480	6,880	O/R
VH-262*	**2.625**	**2.701**	.039	**2.731**		.031		.158		10,740	7,050	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

VH series - Spiral Internal

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
VH-268*	**2.687**	**2.763**	.039	**2.794**	+.025 -.000	.031	+/-.002	.158	+.004 -.004	10,990	7,220	O/R
VH-275*	**2.750**	**2.826**	.039	**2.857**		.031		.158		11,250	7,390	O/R
VH-281*	**2.812**	**2.888**	.039	**2.920**		.031		.158		11,500	7,550	9.26
VH-287*	**2.875**	**2.951**	.039	**2.983**		.031		.158		11,760	7,720	O/R
VH-293*	**2.937**	**3.013**	.039	**3.046**		.031		.158		12,010	7,890	O/R
VH-300*	**3.000**	**3.076**	.039	**3.110**		.031		.158		12,270	8,060	3.74
VH-306*	**3.062**	**3.154**	.044	**3.188**		.039		.188		15,760	9,960	O/R
VH-312*	**3.125**	**3.217**	.044	**3.251**	+.030 -.000	.039		.188	+.005 -.005	16,080	10,160	O/R
VH-318	**3.187**	**3.279**	.044	**3.314**		.039		.188		16,400	10,360	7.30
VH-325*	**3.250**	**3.342**	.044	**3.377**		.039		.188		16,720	10,570	6.20
VH-331*	**3.312**	**3.404**	.044	**3.440**		.039		.188		17,040	10,770	O/R
VH-337*	**3.375**	**3.467**	.044	**3.504**		.039		.188		17,370	10,970	O/R
VH-343*	**3.437**	**3.529**	.044	**3.566**		.039		.188		17,690	11,180	O/R
VH-350	**3.500**	**3.592**	.044	**3.630**		.039		.188		18,010	11,380	7.75
VH-356*	**3.562**	**3.654**	.044	**3.692**		.039		.188		18,330	11,580	O/R
VH-362*	**3.625**	**3.717**	.044	**3.756**		.039		.188		18,650	11,790	O/R
VH-368*	**3.687**	**3.779**	.044	**3.819**		.039		.188		18,970	11,990	O/R
VH-375*	**3.750**	**3.842**	.044	**3.882**		.039		.188		19,300	12,190	O/R
VH-381*	**3.812**	**3.904**	.044	**3.945**		.039		.188		19,620	12,400	O/R
VH-387*	**3.875**	**3.967**	.044	**4.009**		.039		.188		19,940	12,600	O/R
VH-393*	**3.937**	**4.029**	.044	**4.071**		.039		.188		20,260	12,800	O/R
VH-400*	**4.000**	**4.092**	.044	**4.135**		.039		.188		20,580	13,010	10.87
VH-412*	**4.125**	**4.235**	.052	**4.279**		.046		.225		23,850	16,040	13.49
VH-425*	**4.250**	**4.360**	.052	**4.405**	+.035 -.000	.046		.225		24,570	16,520	O/R
VH-437*	**4.375**	**4.485**	.052	**4.531**		.046		.225		25,290	17,010	O/R
VH-450*	**4.500**	**4.610**	.052	**4.658**		.046		.225		26,010	17,500	O/R
VH-462*	**4.625**	**4.735**	.052	**4.784**		.046		.225		26,740	17,980	14.32
VH-475*	**4.750**	**4.860**	.052	**4.910**		.046		.225		27,460	18,470	O/R
VH-487*	**4.875**	**4.985**	.052	**5.036**		.046		.225		28,180	18,950	O/R
VH-500*	**5.000**	**5.110**	.052	**5.163**		.046		.225		28,900	19,440	13.87
VH-525*	**5.250**	**5.381**	.067	**5.435**		.061		.225		40,240	24,490	O/R
VH-550*	**5.500**	**5.638**	.067	**5.694**	+.045 -.000	.061		.225		42,160	26,830	14.82
VH-575*	**5.750**	**5.894**	.067	**5.953**		.061		.225		44,080	29,260	16.06
VH-600*	**6.000**	**6.150**	.067	**6.212**		.061		.265		45,990	31,810	O/R
VH-625*	**6.250**	**6.406**	.067	**6.470**		.061		.265		47,910	34,460	O/R
VH-650*	**6.500**	**6.663**	.067	**6.730**		.061		.265		49,830	37,680	O/R
VH-675*	**6.750**	**6.919**	.067	**6.988**		.061		.265		51,740	40,560	15.65
VH-700*	**7.000**	**7.175**	.067	**7.247**		.061		.265		53,660	43,540	O/R
VH-725*	**7.250**	**7.431**	.067	**7.505**		.061		.265		55,580	46,640	O/R
VH-750*	**7.500**	**7.688**	.067	**7.765**	+.060 -.000	.061		.265		57,490	49,830	O/R
VH-775*	**7.750**	**7.944**	.067	**8.023**		.061		.300		59,410	53,140	O/R
VH-800*	**8.000**	**8.200**	.067	**8.282**		.061		.300	+.004 -.008	61,320	56,550	O/R
VH-825*	**8.250**	**8.456**	.067	**8.541**		.061		.300		63,240	60,070	O/R
VH-850*	**8.500**	**8.713**	.067	**8.800**		.061		.300		65,160	64,290	O/R
VH-875*	**8.750**	**8.969**	.082	**9.059**		.076		.345		83,570	68,040	O/R
VH-900*	**9.000**	**9.225**	.082	**9.317**		.076		.345		85,950	71,890	35.88

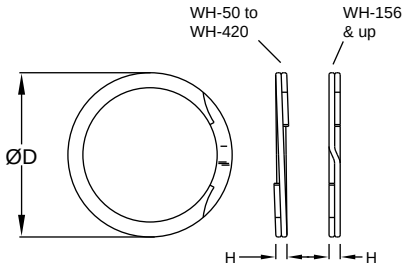
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

VH series - Spiral Internal

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
VH-925*	**9.250**	**9.481**	.082	**9.576**	+.070 -.000	.076	+/-.002	.345	+.004 -.008	88,340	75,850	O/R
VH-950*	**9.500**	**9.738**	.082	**9.835**		.076		.345		90,730	79,910	O/R
VH-975*	**9.750**	**9.994**	.082	**10.094**		.076		.345		93,120	84,080	O/R
VH-1000*	**10.000**	**10.250**	.082	**10.353**		.076		.345		95,500	88,360	O/R

WH - Spiral Internal





Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WH-50*	**0.500**	**0.526**	.030	**0.532**	+.013 -.000	.025	+/-.002	.045	+.004 -.004	2,000	460	O/R
WH-51*	**0.512**	**0.538**	.030	**0.544**		.025		.045		2,050	470	O/R
WH-53*	**0.531**	**0.557**	.030	**0.564**		.025		.045		2,130	490	O/R
WH-56*	**0.562**	**0.588**	.030	**0.594**		.025		.045		2,250	520	O/R
WH-59*	**0.594**	**0.619**	.030	**0.626**		.025		.045		2,380	550	O/R
WH-62*	**0.625**	**0.651**	.030	**0.658**		.025		.045		2,500	570	1.30
WH-65*	**0.656**	**0.682**	.030	**0.689**		.025		.045		2,630	600	O/R
WH-68*	**0.687**	**0.713**	.030	**0.720**		.025		.045		2,750	630	O/R
WH-71*	**0.718**	**0.744**	.030	**0.751**		.025		.045		2,870	660	O/R
WH-75*	**0.750**	**0.782**	.036	**0.790**		.031		.065		3,360	850	O/R
WH-77*	**0.777**	**0.808**	.036	**0.817**		.031		.065		3,480	880	O/R
WH-78*	**0.781**	**0.812**	.036	**0.821**		.031		.065		3,500	880	1.37
WH-81*	**0.812**	**0.843**	.036	**0.853**		.031		.065		3,640	920	O/R
WH-84*	**0.843**	**0.880**	.036	**0.889**		.031		.065		3,780	1,130	O/R
WH-86*	**0.866**	**0.903**	.036	**0.913**		.031		.065		3,880	1,160	O/R
WH-87*	**0.875**	**0.912**	.036	**0.922**		.031		.065		3,920	1,180	1.39
WH-90*	**0.906**	**0.943**	.036	**0.953**		.031		.065		4,060	1,220	O/R
WH-93*	**0.938**	**0.975**	.036	**0.986**		.031		.065		4,200	1,260	O/R
WH-96*	**0.968**	**1.011**	.042	**1.022**		.037		.075		5,180	1,440	O/R
WH-98*	**0.987**	**1.030**	.042	**1.041**		.037		.075		5,280	1,470	O/R
WH-100	**1.000**	**1.043**	.042	**1.054**		.037		.075		5,350	1,480	1.43
WH-102*	**1.023**	**1.066**	.042	**1.078**		.037		.075		5,470	1,520	O/R
WH-103*	**1.031**	**1.074**	.042	**1.084**		.037		.075		5,510	1,530	O/R
WH-106*	**1.062**	**1.104**	.042	**1.117**	+.015 -.000	.037		.075		5,680	1,580	1.43
WH-109*	**1.093**	**1.135**	.042	**1.147**		.037		.075		5,840	1,620	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WH series - Spiral Internal

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WH-112*	**1.125**	**1.167**	.042	**1.180**	+.015 -.000	.037	+/-.002	.075	+.004 -.004	6,020	1,670	1.43
WH-115*	**1.156**	**1.198**	.042	**1.210**		.037		.075		6,180	1,720	O/R
WH-118*	**1.188**	**1.236**	.048	**1.249**		.043		.085		7,380	2,020	O/R
WH-121*	**1.218**	**1.266**	.048	**1.278**		.043		.085		7,570	2,070	O/R
WH-125*	**1.250**	**1.298**	.048	**1.312**		.043		.085		7,770	2,120	1.51
WH-128	**1.281**	**1.329**	.048	**1.342**		.043		.085		7,960	2,170	1.57
WH-131*	**1.312**	**1.360**	.048	**1.374**		.043		.085		8,150	2,230	O/R
WH-134*	**1.343**	**1.395**	.048	**1.408**		.043		.085		8,350	2,470	O/R
WH-137*	**1.375**	**1.427**	.048	**1.442**		.043		.095		8,540	2,530	2.29
WH-140*	**1.406**	**1.458**	.048	**1.472**		.043		.095		8,740	2,580	O/R
WH-143*	**1.437**	**1.489**	.048	**1.504**		.043		.095		8,930	2,640	O/R
WH-145*	**1.456**	**1.508**	.048	**1.523**		.043		.095		9,050	2,680	O/R
WH-146*	**1.468**	**1.520**	.048	**1.535**		.043		.095		9,120	2,700	O/R
WH-150	**1.500**	**1.552**	.048	**1.567**		.043		.095		9,320	2,760	2.67
WH-156	**1.562**	**1.617**	.056	**1.634**	+.020 -.000	.049	+/-.003	.108		10,100	3,090	3.04
WH-157*	**1.574**	**1.633**	.056	**1.649**		.049		.108		10,180	3,340	O/R
WH-162	**1.625**	**1.684**	.056	**1.701**		.049		.108		10,510	3,350	6.78
WH-165*	**1.653**	**1.712**	.056	**1.730**		.049		.108		10,690	3,510	O/R
WH-168*	**1.687**	**1.750**	.056	**1.768**		.049		.118		10,910	3,700	O/R
WH-175	**1.750**	**1.813**	.056	**1.834**		.049		.118		11,310	3,840	3.04
WH-181*	**1.813**	**1.875**	.056	**1.894**		.049		.118		11,720	3,970	O/R
WH-185*	**1.850**	**1.917**	.056	**1.937**		.049		.118		11,960	4,450	O/R
WH-187	**1.875**	**1.942**	.056	**1.960**		.049		.118		12,120	4,510	3.89
WH-193*	**1.938**	**2.005**	.056	**2.025**		.049		.118		12,530	4,660	O/R
WH-200	**2.000**	**2.071**	.056	**2.091**		.049		.128		12,930	4,950	4.45
WH-204*	**2.047**	**2.118**	.056	**2.138**		.049		.128		13,240	5,060	4.79
WH-206*	**2.062**	**2.132**	.056	**2.154**	+.025 -.000	.049		.128		13,330	5,100	O/R
WH-212*	**2.125**	**2.195**	.056	**2.217**		.049		.128		13,740	5,260	O/R
WH-216*	**2.165**	**2.239**	.056	**2.260**		.049		.138		14,000	5,660	6.05
WH-218*	**2.188**	**2.262**	.056	**2.284**		.049		.138		14,150	5,720	O/R
WH-225*	**2.250**	**2.324**	.056	**2.347**		.049		.138		14,550	5,890	O/R
WH-231*	**2.312**	**2.390**	.056	**2.413**		.049		.138		14,950	6,370	4.79
WH-237	**2.375**	**2.453**	.056	**2.476**		.049		.138		15,360	6,550	4.79
WH-243*	**2.437**	**2.519**	.056	**2.543**		.049		.148		15,760	7,060	O/R
WH-244*	**2.440**	**2.522**	.056	**2.546**		.049		.148		15,780	7,070	O/R
WH-250*	**2.500**	**2.582**	.056	**2.606**		.049		.148		16,160	7,250	6.36
WH-253*	**2.531**	**2.617**	.056	**2.641**		.049		.148		16,360	7,690	O/R
WH-256	**2.562**	**2.648**	.056	**2.673**		.049		.148		16,560	7,790	7.11
WH-262*	**2.625**	**2.711**	.056	**2.736**		.049		.148		16,970	7,980	O/R
WH-267*	**2.677**	**2.767**	.056	**2.789**		.049		.158		17,310	8,520	O/R
WH-268*	**2.688**	**2.778**	.056	**2.803**		.049		.158		17,380	8,550	O/R
WH-275	**2.750**	**2.841**	.056	**2.865**		.049		.158		17,780	8,750	13.01
WH-281*	**2.813**	**2.903**	.056	**2.929**		.049		.158		18,190	8,950	O/R
WH-283*	**2.834**	**2.928**	.056	**2.954**		.049		.168	+.005 -.005	18,320	9,520	6.79
WH-287*	**2.875**	**2.969**	.056	**2.995**		.049		.168		18,590	9,550	9.24
WH-293*	**2.937**	**3.031**	.056	**3.058**		.049		.168		18,990	9,760	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WH-295*	**2.952**	**3.046**	.056	**3.073**	+.025 -.000	.049	+/-.003	.168	+.005 -.005	19,090	9,810	O/R
WH-300	**3.000**	**3.096**	.068	**3.122**		.061		.168		24,150	10,180	6.58
WH-306*	**3.062**	**3.158**	.068	**3.186**	+.030 -.000	.061		.168		24,650	10,390	O/R
WH-312	**3.125**	**3.223**	.068	**3.251**		.061		.178		25,150	10,600	10.55
WH-314*	**3.149**	**3.247**	.068	**3.276**		.061		.178		25,350	10,680	O/R
WH-318	**3.187**	**3.283**	.068	**3.311**		.061		.178		25,650	10,810	10.65
WH-325*	**3.250**	**3.350**	.068	**3.379**		.061		.178		26,160	11,490	10.71
WH-331*	**3.312**	**3.416**	.068	**3.446**		.061		.188		26,660	12,170	O/R
WH-334	**3.346**	**3.450**	.068	**3.479**		.061		.188		26,930	12,300	9.27
WH-337*	**3.375**	**3.479**	.068	**3.509**		.061		.188		27,170	12,410	O/R
WH-343*	**3.437**	**3.543**	.068	**3.574**		.061		.188		27,660	12,880	O/R
WH-350	**3.500**	**3.606**	.068	**3.636**		.061		.188		28,170	13,110	6.94
WH-354*	**3.543**	**3.653**	.068	**3.684**		.061		.198		28,520	13,770	O/R
WH-356*	**3.562**	**3.672**	.068	**3.703**		.061		.198		28,670	13,850	8.74
WH-362*	**3.625**	**3.737**	.068	**3.769**		.061		.198		29,180	14,350	O/R
WH-368*	**3.687**	**3.799**	.068	**3.832**		.061		.198		29,680	14,600	O/R
WH-374*	**3.740**	**3.852**	.068	**3.885**		.061		.198		30,100	14,800	O/R
WH-375*	**3.750**	**3.862**	.068	**3.894**		.061		.198		30,180	14,840	O/R
WH-381*	**3.812**	**3.930**	.068	**3.963**		.061		.208		30,680	15,900	O/R
WH-387*	**3.875**	**3.993**	.068	**4.025**		.061		.208		31,190	16,160	O/R
WH-393*	**3.938**	**4.056**	.068	**4.089**		.061		.208		31,700	16,420	O/R
WH-400	**4.000**	**4.124**	.068	**4.157**		.061		.218		32,200	17,530	9.63
WH-406*	**4.063**	**4.187**	.068	**4.222**		.061		.218		32,700	17,810	12.30
WH-412*	**4.125**	**4.249**	.068	**4.284**	+.035 -.000	.061		.218		33,200	18,080	O/R
WH-418*	**4.188**	**4.311**	.068	**4.347**		.061		.218		33,710	18,350	O/R
WH-425*	**4.250**	**4.380**	.068	**4.416**		.061		.228		34,210	19,530	O/R
WH-431*	**4.312**	**4.442**	.068	**4.479**		.061		.228		34,710	19,810	O/R
WH-433*	**4.330**	**4.460**	.068	**4.497**		.061		.228		34,850	19,900	O/R
WH-437*	**4.375**	**4.505**	.068	**4.543**		.061		.228		35,210	20,100	O/R
WH-443*	**4.437**	**4.573**	.068	**4.611**		.061		.238		35,710	21,330	22.25
WH-450	**4.500**	**4.636**	.068	**4.674**		.061		.238		36,220	21,630	9.98
WH-452*	**4.527**	**4.663**	.068	**4.701**		.061		.238		36,440	21,760	O/R
WH-456*	**4.562**	**4.698**	.068	**4.737**		.061		.238		36,720	21,930	O/R
WH-462*	**4.625**	**4.765**	.079	**4.803**		.072	+/-.004	.250		43,940	22,890	O/R
WH-468*	**4.687**	**4.827**	.079	**4.867**		.072		.250		44,530	23,190	O/R
WH-472*	**4.724**	**4.864**	.079	**4.903**		.072		.250		44,880	23,370	O/R
WH-475*	**4.750**	**4.890**	.079	**4.930**		.072		.250		45,130	23,500	O/R
WH-481*	**4.812**	**4.952**	.079	**4.993**		.072		.250		45,720	23,810	O/R
WH-487*	**4.875**	**5.015**	.079	**5.055**		.072		.250		46,310	24,120	O/R
WH-492*	**4.921**	**5.061**	.079	**5.102**		.072		.250		46,750	24,350	O/R
WH-493*	**4.937**	**5.081**	.079	**5.122**		.072		.250		46,900	25,130	O/R
WH-500*	**5.000**	**5.144**	.079	**5.185**		.072		.250		47,500	25,450	11.75
WH-511*	**5.118**	**5.262**	.079	**5.304**		.072		.250		48,620	26,050	O/R
WH-512	**5.125**	**5.269**	.079	**5.311**		.072		.250		48,690	26,100	18.15
WH-525*	**5.250**	**5.393**	.079	**5.436**	+.045 -.000	.072		.250		49,880	26,720	12.55
WH-537*	**5.375**	**5.522**	.079	**5.566**		.072		.250		51,060	28,120	O/R

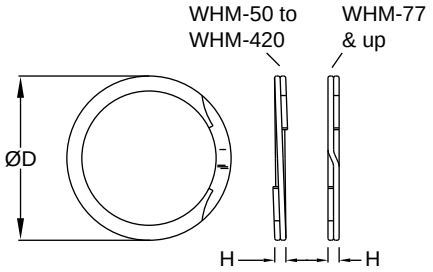
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WH series - Spiral Internal

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WH-550*	**5.500**	**5.647**	.079	**5.693**	+.045 -.000	.072	+/-.004	.250	+.005 -.005	52,250	28,770	10.73
WH-551	**5.511**	**5.658**	.079	**5.703**		.072		.250		52,360	28,830	17.54
WH-562*	**5.625**	**5.772**	.079	**5.818**		.072		.250		53,440	29,400	O/R
WH-570*	**5.708**	**5.861**	.079	**5.909**		.072		.250		54,230	31,070	24.92
WH-575*	**5.750**	**5.903**	.079	**5.950**		.072		.250		54,630	31,300	O/R
WH-587*	**5.875**	**6.028**	.079	**6.077**		.072		.250		55,810	31,980	O/R
WH-590*	**5.905**	**6.058**	.079	**6.106**		.072		.250		56,100	32,140	O/R
WH-600*	**6.000**	**6.153**	.079	**6.202**		.072		.250		57,000	32,660	14.82
WH-612	**6.125**	**6.297**	.094	**6.349**		.086		.312	+.006 -.006	69,500	37,200	15.21
WH-625*	**6.250**	**6.422**	.094	**6.474**	+.055 -.000	.086		.312		70,920	37,990	25.80
WH-629*	**6.299**	**6.471**	.094	**6.524**		.086		.312		71,480	38,290	O/R
WH-637*	**6.375**	**6.547**	.094	**6.601**		.086		.312		72,340	38,750	O/R
WH-650*	**6.500**	**6.672**	.094	**6.726**		.086		.312		73,760	39,510	O/R
WH-662*	**6.625**	**6.807**	.094	**6.863**		.086		.312		75,180	42,620	O/R
WH-669*	**6.692**	**6.874**	.094	**6.931**		.086		.312		75,940	43,050	O/R
WH-675*	**6.750**	**6.932**	.094	**6.987**		.086		.312		76,600	43,420	26.87
WH-687*	**6.875**	**7.057**	.094	**7.114**		.086		.312		78,010	44,220	O/R
WH-700*	**7.000**	**7.182**	.094	**7.239**		.086		.312		79,430	45,030	28.37
WH-708*	**7.086**	**7.278**	.094	**7.337**		.086		.312		80,410	48,080	O/R
WH-712*	**7.125**	**7.317**	.094	**7.376**		.086		.312		80,850	48,350	28.28
WH-725*	**7.250**	**7.442**	.094	**7.501**	+.065 -.000	.086		.312		82,270	49,200	O/R
WH-737*	**7.375**	**7.567**	.094	**7.628**		.086		.312		83,690	50,050	O/R
WH-748*	**7.480**	**7.672**	.094	**7.734**		.086		.312		84,880	50,760	O/R
WH-750*	**7.500**	**7.692**	.094	**7.754**		.086		.312		85,110	50,890	29.82
WH-762*	**7.625**	**7.827**	.094	**7.890**		.086		.312		86,520	54,440	O/R
WH-775	**7.750**	**7.952**	.094	**8.014**		.086		.312		87,940	55,330	38.26
WH-787*	**7.875**	**8.077**	.094	**8.141**		.086		.312		89,360	63,360	O/R
WH-800*	**8.000**	**8.202**	.094	**8.266**		.086		.312		90,780	57,110	O/R
WH-825*	**8.250**	**8.462**	.094	**8.528**		.086		.375		93,620	61,820	O/R
WH-826*	**8.267**	**8.479**	.094	**8.546**		.086		.375		93,810	61,940	O/R
WH-846*	**8.464**	**8.676**	.094	**8.744**		.086		.375		96,050	63,420	O/R
WH-850*	**8.500**	**8.712**	.094	**8.780**		.086		.375		96,450	63,690	45.87
WH-875	**8.750**	**8.972**	.094	**9.041**		.086		.375		99,290	68,650	56.79
WH-885*	**8.858**	**9.080**	.094	**9.151**		.086		.375		100,520	69,500	68.77
WH-900*	**9.000**	**9.222**	.094	**9.293**		.086		.375		102,130	70,620	O/R
WH-905*	**9.055**	**9.287**	.094	**9.359**		.086		.375		102,750	74,250	O/R
WH-925*	**9.250**	**9.482**	.094	**9.555**		.086		.375		104,960	75,850	O/R
WH-944*	**9.448**	**9.680**	.094	**9.755**		.086		.375		107,210	77,470	O/R
WH-950*	**9.500**	**9.732**	.094	**9.806**		.086		.375		107,800	77,900	O/R
WH-975*	**9.750**	**9.992**	.094	**10.068**		.086		.375		110,640	83,390	O/R
WH-1000*	**10.000**	**10.242**	.094	**10.320**		.086		.375		113,470	85,530	O/R
WH-1025*	**10.250**	**10.502**	.094	**10.582**		.086		.375		116,310	91,290	O/R
WH-1050	**10.500**	**10.752**	.094	**10.834**		.086		.375		119,150	93,520	74.61
WH-1075*	**10.750**	**11.012**	.094	**11.095**		.086		.375		121,990	99,540	O/R
WH-1100*	**11.000**	**11.262**	.094	**11.347**		.086		.375		124,820	101,860	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WHM-25*	**0.250**	**0.268**	.020	**0.270**	+.010 -.000	.015	+.002	.020	+.004 -.004	561	159	O/R
WHM-31*	**0.312**	**0.330**	.020	**0.333**		.015		.025		700	198	O/R
WHM-37*	**0.375**	**0.397**	.029	**0.400**		.025		.030		1,442	292	O/R
WHM-43*	**0.437**	**0.461**	.029	**0.464**	+0.12/-0.00	.025	+/-.002	.035		1,680	371	O/R
WHM-50*	**0.500**	**0.530**	.039	**0.538**	+.013 -.000	.035		.045		2,530	530	1.28
WHM-51*	**0.512**	**0.542**	.039	**0.550**		.035		.045		2,590	540	O/R
WHM-56*	**0.562**	**0.596**	.039	**0.605**		.035		.055		2,840	680	O/R
WHM-62*	**0.625**	**0.665**	.039	**0.675**		.035		.055		3,160	880	1.35
WHM-68*	**0.688**	**0.732**	.039	**0.743**		.035		.065		3,480	1,070	1.63
WHM-75*	**0.750**	**0.796**	.039	**0.807**		.035		.065		3,790	1,220	1.81
WHM-77*	**0.777**	**0.825**	.046	**0.836**		.042		.075		4,720	1,320	O/R
WHM-81*	**0.812**	**0.862**	.046	**0.873**		.042		.075		4,930	1,440	O/R
WHM-86*	**0.866**	**0.920**	.046	**0.931**		.042		.075		5,260	1,650	O/R
WHM-87*	**0.875**	**0.931**	.046	**0.943**		.042		.085		5,310	1,730	1.81
WHM-90*	**0.901**	**0.959**	.046	**0.972**		.042		.085		5,470	1,850	O/R
WHM-93*	**0.938**	**1.000**	.046	**1.013**		.042		.085		5,690	2,060	O/R
WHM-100*	**1.000**	**1.066**	.046	**1.080**		.042		.085		6,070	2,330	3.22
WHM-102*	**1.023**	**1.091**	.046	**1.105**		.042		.085		6,210	2,460	O/R
WHM-106*	**1.062**	**1.130**	.056	**1.138**		.050		.103		7,010	2,550	O/R
WHM-112*	**1.125**	**1.197**	.056	**1.205**		.050		.103		7,420	2,860	3.41
WHM-118*	**1.188**	**1.262**	.056	**1.271**		.050		.103		7,840	3,110	O/R
WHM-125*	**1.250**	**1.330**	.056	**1.339**		.050		.103		8,250	3,530	3.69
WHM-131*	**1.312**	**1.396**	.056	**1.406**		.050		.118		8,660	3,900	O/R
WHM-137*	**1.375**	**1.461**	.056	**1.471**		.050		.118		9,070	4,180	3.69
WHM-143*	**1.439**	**1.528**	.056	**1.539**		.050		.118		9,490	4,580	O/R
WHM-145*	**1.456**	**1.548**	.056	**1.559**		.050		.118		9,610	4,730	O/R
WHM-150	**1.500**	**1.594**	.056	**1.605**		.050		.118		9,900	4,980	3.86
WHM-156*	**1.562**	**1.658**	.068	**1.675**	+.020 -.000	.062	+/-.003	.128		12,780	5,300	O/R
WHM-162*	**1.625**	**1.725**	.068	**1.742**		.062		.128		13,290	5,740	O/R
WHM-165*	**1.653**	**1.755**	.068	**1.772**		.062		.128		13,520	5,960	O/R
WHM-168*	**1.688**	**1.792**	.068	**1.810**		.062		.128		13,810	6,210	O/R
WHM-175*	**1.750**	**1.858**	.068	**1.876**		.062		.128		14,320	6,680	8.16
WHM-181*	**1.812**	**1.922**	.068	**1.940**		.062		.128		14,820	7,050	O/R
WHM-185*	**1.850**	**1.962**	.068	**1.981**		.062		.158		15,130	7,320	O/R
WHM-187*	**1.875**	**1.989**	.068	**2.008**		.062		.158		15,340	7,560	O/R
WHM-193*	**1.938**	**2.056**	.068	**2.075**		.062		.158		15,850	8,080	O/R
WHM-200*	**2.000**	**2.122**	.068	**2.142**		.062		.158		16,360	8,620	8.46
WHM-206*	**2.062**	**2.186**	.086	**2.201**	+.025 -.000	.078		.168	+.005 -.005	21,220	9,040	11.61
WHM-212*	**2.125**	**2.251**	.086	**2.267**		.078		.168		21,870	9,460	11.82

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WHM series - Spiral Internal

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WHM-218*	**2.188**	**2.318**	.086	**2.334**	+.025 -.000	.078	+/-.004	.168	+.005 -.005	22,520	10,050	11.61
WHM-225	**2.250**	**2.382**	.086	**2.399**		.078		.168		23,160	10,500	11.66
WHM-231*	**2.312**	**2.450**	.086	**2.467**		.078		.200		23,800	11,280	14.39
WHM-237*	**2.375**	**2.517**	.086	**2.535**		.078		.200		24,440	11,920	O/R
WHM-244*	**2.440**	**2.584**	.086	**2.602**		.078		.200		25,110	12,420	O/R
WHM-250	**2.500**	**2.648**	.086	**2.667**		.078		.200		25,730	13,080	12.99
WHM-253*	**2.531**	**2.681**	.086	**2.700**		.078		.200		26,050	13,420	O/R
WHM-256*	**2.562**	**2.714**	.103	**2.733**	+.030 -.000	.093		.225		29,940	13,760	11.91
WHM-262*	**2.625**	**2.781**	.103	**2.801**		.093		.225		30,680	14,470	O/R
WHM-268*	**2.688**	**2.848**	.103	**2.868**		.093		.225		31,410	15,200	O/R
WHM-275*	**2.750**	**2.914**	.103	**2.934**		.093		.225		32,140	15,940	O/R
WHM-281*	**2.813**	**2.980**	.103	**3.001**		.093		.225		32,880	16,700	O/R
WHM-283*	**2.834**	**3.006**	.103	**3.027**		.093		.225		33,120	17,230	15.95
WHM-287*	**2.875**	**3.051**	.103	**3.072**		.093		.225		33,600	17,880	O/R
WHM-300	**3.000**	**3.182**	.103	**3.204**		.093		.225		35,060	18,300	16.92
WHM-306*	**3.062**	**3.248**	.120	**3.271**	+.035 -.000	.111		.281		42,710	20,130	O/R
WHM-312*	**3.125**	**3.315**	.120	**3.338**		.111		.281		43,590	20,990	O/R
WHM-315*	**3.157**	**3.348**	.120	**3.371**		.111		.281		44,040	21,420	22.39
WHM-325*	**3.250**	**3.446**	.120	**3.470**		.111		.281		45,330	22,510	O/R
WHM-334*	**3.346**	**3.546**	.120	**3.571**		.111		.281		46,670	23,650	O/R
WHM-347*	**3.464**	**3.675**	.120	**3.701**		.111		.281		48,320	25,710	O/R
WHM-350	**3.500**	**3.710**	.120	**3.736**		.111		.281		48,820	25,980	16.92
WHM-354*	**3.543**	**3.755**	.120	**3.781**		.111		.281		49,420	26,550	O/R
WHM-356*	**3.562**	**3.776**	.120	**3.802**		.111		.281		49,690	26,940	O/R
WHM-362*	**3.625**	**3.841**	.120	**3.868**		.111		.281		50,560	27,670	O/R
WHM-375*	**3.750**	**3.974**	.120	**4.002**		.111		.312	+.006 -.006	52,310	29,690	O/R
WHM-387*	**3.875**	**4.107**	.120	**4.136**		.111		.312		54,050	31,770	O/R
WHM-393*	**3.938**	**4.174**	.120	**4.203**		.111		.312		54,930	32,850	41.09
WHM-400	**4.000**	**4.240**	.120	**4.270**		.111		.312		55,800	33,930	19.20
WHM-412	**4.125**	**4.365**	.120	**4.395**		.111		.312		57,540	34,990	57.34
WHM-425*	**4.250**	**4.490**	.120	**4.520**		.111		.312		59,280	36,050	27.99
WHM-433	**4.330**	**4.570**	.120	**4.600**		.111		.312		60,400	36,730	16.76
WHM-450*	**4.500**	**4.740**	.120	**4.770**		.111		.312		62,770	38,170	30.64
WHM-462*	**4.625**	**4.865**	.120	**4.899**		.111		.312		64,510	39,230	O/R
WHM-475*	**4.750**	**4.995**	.120	**5.030**		.111		.312		66,260	41,300	O/R
WHM-500	**5.000**	**5.260**	.120	**5.297**		.111		.312		69,740	45,950	39.82
WHM-525*	**5.250**	**5.520**	.139	**5.559**	+.050 -.000	.127		.350		83,790	50,100	O/R
WHM-537*	**5.375**	**5.645**	.139	**5.685**		.127		.350		85,780	51,290	O/R
WHM-550	**5.500**	**5.770**	.139	**5.810**		.127		.350		87,780	52,480	45.04
WHM-575*	**5.750**	**6.020**	.139	**6.062**		.127		.350		91,770	54,870	O/R
WHM-600	**6.000**	**6.270**	.139	**6.314**		.127		.350		95,760	57,260	33.62
WHM-625	**6.250**	**6.530**	.174	**6.576**	+.055 -.000	.156		.380		122,520	61,850	60.40
WHM-650*	**6.500**	**6.790**	.174	**6.838**		.156		.380		127,420	66,620	O/R
WHM-662*	**6.625**	**6.925**	.174	**6.974**		.156		.380		129,870	70,240	O/R
WHM-675*	**6.750**	**7.055**	.174	**7.105**		.156		.380		132,320	73,000	O/R
WHM-700/SST	**7.000**	**7.315**	.174	**7.366**		.156		.380		137,230	78,180	162.11

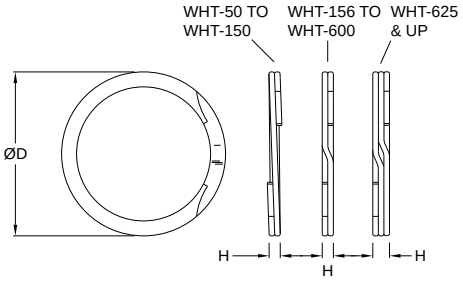
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WHM-725*	**7.250**	**7.575**	.209	**7.628**	+.070 -.000	.187	+/-.005	.418	+.007 -.007	170,370	83,530	O/R
WHM-750*	**7.500**	**7.840**	.209	**7.895**		.187		.418		176,240	90,120	91.11
WHM-775*	**7.750**	**8.100**	.209	**8.157**		.187		.418		182,120	95,870	O/R
WHM-800*	**8.000**	**8.360**	.209	**8.419**		.187		.418		187,990	101,790	O/R
WHM-825/SST	**8.250**	**8.620**	.209	**8.680**		.187		.437		193,870	107,880	209.85
WHM-850*	**8.500**	**8.880**	.209	**8.942**		.187		.437		199,740	114,160	O/R
WHM-875*	**8.750**	**9.145**	.209	**9.209**		.187		.437		205,620	122,460	O/R
WHM-900*	**9.000**	**9.405**	.209	**9.471**		.187		.437		211,490	129,140	O/R
WHM-925*	**9.250**	**9.669**	.209	**9.737**		.187		.437		217,370	137,310	O/R
WHM-950*	**9.500**	**9.930**	.209	**10.000**		.187		.500		223,240	144,380	O/R
WHM-975*	**9.750**	**10.189**	.209	**10.260**		.187		.500		229,120	150,620	O/R
WHM-1000*	**10.000**	**10.450**	.209	**10.523**		.187		.500		234,990	159,040	O/R
WHM-1025*	**10.250**	**10.711**	.209	**10.786**		.187		.500		240,870	167,370	O/R
WHM-1050*	**10.500**	**10.970**	.209	**11.047**		.187		.500		246,740	174,420	O/R
WHM-1075*	**10.750**	**11.234**	.209	**11.313**	+.120 -.000	.187		.500		252,620	183,890	O/R
WHM-1100	**11.000**	**11.495**	.209	**11.575**		.187		.500		258,490	192,830	178.85
WHM-1125*	**11.250**	**11.756**	.209	**11.838**		.187		.500	+.015 -.010	264,370	201,190	O/R
WHM-1150*	**11.500**	**12.018**	.209	**12.102**		.187		.562		270,240	210,540	O/R
WHM-1175*	**11.750**	**12.279**	.209	**12.365**		.187		.562		276,120	220,100	O/R
WHM-1200*	**12.000**	**12.540**	.209	**12.628**		.187		.562		281,990	229,020	O/R
WHM-1225*	**12.250**	**12.801**	.209	**12.891**		.187		.562		287,860	238,990	O/R
WHM-1250*	**12.500**	**13.063**	.209	**13.154**		.187		.562		293,740	249,170	257.62
WHM-1275*	**12.750**	**13.324**	.209	**13.417**		.187		.562		299,610	258,660	347.34
WHM-1300*	**13.000**	**13.585**	.209	**13.680**	+.140 -.000	.187		.662		305,490	269,240	O/R
WHM-1325*	**13.250**	**13.846**	.209	**13.943**		.187		.662		311,360	279,100	O/R
WHM-1350*	**13.500**	**14.108**	.209	**14.207**		.187		.662		317,240	290,100	O/R
WHM-1375*	**13.750**	**14.369**	.209	**14.470**		.187		.662		323,110	301,300	O/R
WHM-1400*	**14.000**	**14.630**	.209	**14.732**		.187		.662		328,990	311,730	O/R
WHM-1425*	**14.250**	**14.891**	.209	**14.995**		.187		.662		334,860	323,340	O/R
WHM-1450*	**14.500**	**15.153**	.209	**15.259**		.187		.750		340,740	335,160	O/R
WHM-1475*	**14.750**	**15.414**	.209	**15.522**		.187		.750		346,610	346,150	O/R
WHM-1500*	**15.000**	**15.675**	.209	**15.785**		.187		.750		352,490	358,380	O/R

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WHT - Spiral Internal





Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WHT-50*	**0.500**	**0.524**	.039	**0.529**	+.013 -.000	.035	+/-.002	.045	+.004 -.004	2,530	420	O/R
WHT-51*	**0.512**	**0.536**	.039	**0.541**		.035		.045		2,590	430	O/R
WHT-56*	**0.562**	**0.592**	.039	**0.597**		.035		.045		2,840	600	O/R
WHT-62*	**0.625**	**0.659**	.039	**0.665**		.035		.045		3,160	750	O/R
WHT-68*	**0.688**	**0.724**	.039	**0.730**		.035		.055		3,480	880	14.35
WHT-75*	**0.750**	**0.790**	.039	**0.796**		.035		.055		3,790	1,060	O/R
WHT-77*	**0.777**	**0.819**	.046	**0.825**		.042		.065		4,720	1,150	O/R
WHT-81*	**0.812**	**0.857**	.046	**0.864**		.042		.065		4,930	1,320	O/R
WHT-86*	**0.866**	**0.912**	.046	**0.919**		.042		.065		5,260	1,410	O/R
WHT-87*	**0.875**	**0.922**	.046	**0.929**		.042		.065		5,310	1,480	O/R
WHT-90*	**0.901**	**0.950**	.046	**0.957**		.042		.065		5,470	1,590	O/R
WHT-93*	**0.938**	**0.989**	.046	**0.997**		.042		.075		5,690	1,720	O/R
WHT-100*	**1.000**	**1.055**	.046	**1.063**		.042		.075		6,070	1,980	O/R
WHT-102*	**1.023**	**1.079**	.046	**1.087**	↓	.042	↓	.075	↓	6,210	2,030	O/R
WHT-106*	**1.062**	**1.120**	.056	**1.129**	+.015 -.000	.050		.078		7,010	2,180	O/R
WHT-112*	**1.125**	**1.185**	.056	**1.195**		.050		.078		7,420	2,390	O/R
WHT-118*	**1.188**	**1.250**	.056	**1.260**		.050		.088		7,840	2,600	1.97
WHT-125*	**1.250**	**1.320**	.056	**1.330**		.050		.093		8,250	3,090	O/R
WHT-131*	**1.312**	**1.385**	.056	**1.395**		.050		.093		8,660	3,430	2.02
WHT-137*	**1.375**	**1.450**	.056	**1.461**		.050		.098		9,070	3,690	O/R
WHT-143*	**1.438**	**1.515**	.056	**1.526**		.050		.103		9,490	3,960	O/R
WHT-145*	**1.456**	**1.535**	.056	**1.546**		.050		.108		9,610	4,120	O/R
WHT-150	**1.500**	**1.580**	.056	**1.591**	↓	.050	↓	.108		9,900	4,240	2.61
WHT-156*	**1.562**	**1.647**	.068	**1.659**	+.020 -.000	.062	+/-.003	.113		12,780	4,750	O/R
WHT-162*	**1.625**	**1.715**	.068	**1.727**		.062		.113		13,290	5,170	3.04
WHT-165*	**1.653**	**1.745**	.068	**1.757**		.062		.118		13,520	5,380	O/R
WHT-168*	**1.688**	**1.780**	.068	**1.793**		.062		.118		13,810	5,490	O/R
WHT-175	**1.750**	**1.845**	.068	**1.858**		.062		.118		14,320	5,940	3.89
WHT-181*	**1.812**	**1.910**	.068	**1.923**		.062		.123		14,820	6,280	O/R
WHT-185*	**1.850**	**1.949**	.068	**1.963**		.062		.123		15,130	6,540	O/R
WHT-187*	**1.875**	**1.975**	.068	**1.989**		.062		.128		15,340	6,630	4.60
WHT-193*	**1.938**	**2.040**	.068	**2.054**		.062		.128		15,850	6,990	O/R
WHT-200	**2.000**	**2.110**	.068	**2.125**	↓	.062		.138		16,360	7,780	4.60
WHT-206*	**2.062**	**2.175**	.086	**2.190**	+.025 -.000	.078		.141		21,220	8,310	6.03
WHT-212*	**2.125**	**2.240**	.086	**2.255**		.078		.141		21,870	8,710	O/R
WHT-218*	**2.188**	**2.305**	.086	**2.321**		.078		.141		22,520	9,130	O/R
WHT-225*	**2.250**	**2.370**	.086	**2.386**		.078		.141	↓	23,160	9,540	6.03
WHT-231*	**2.312**	**2.440**	.086	**2.457**		.078		.188	+.005 -.005	23,800	10,460	O/R
WHT-237*	**2.375**	**2.505**	.086	**2.522**	↓	.078	↓	.188		24,440	10,910	O/R

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WHT-244	**2.440**	**2.570**	.086	**2.588**	+.025 -.000	.078	+/-.003	.188	+.005 -.005	25,110	11,210	12.76
WHT-250	**2.500**	**2.635**	.086	**2.653**		.078		.188		25,730	12,020	8.00
WHT-253*	**2.531**	**2.668**	.086	**2.687**		.078		.188		26,050	12,350	8.00
WHT-256*	**2.562**	**2.700**	.103	**2.720**		.093		.188		29,940	12,500	8.00
WHT-262	**2.625**	**2.765**	.103	**2.785**		.093		.188		30,680	12,990	8.44
WHT-268*	**2.688**	**2.834**	.103	**2.855**		.093		.188		31,410	13,870	O/R
WHT-275*	**2.750**	**2.900**	.103	**2.921**		.093		.188		32,140	14,580	9.24
WHT-281*	**2.813**	**2.965**	.103	**2.987**		.093		.188		32,880	15,110	O/R
WHT-283*	**2.834**	**2.987**	.103	**3.009**		.093		.188		33,120	15,430	9.46
WHT-287*	**2.875**	**3.030**	.103	**3.053**		.093		.188		33,600	15,850	O/R
WHT-300*	**3.000**	**3.165**	.103	**3.188**		.093		.188		35,060	17,600	9.46
WHT-306*	**3.062**	**3.230**	.120	**3.253**	+.030 -.000	.111		.250		42,710	18,180	O/R
WHT-312*	**3.125**	**3.295**	.120	**3.318**		.111		.250		43,590	18,780	13.99
WHT-315*	**3.156**	**3.328**	.120	**3.354**		.111		.250		44,040	19,190	O/R
WHT-325*	**3.250**	**3.426**	.120	**3.450**		.111		.250		45,330	20,220	11.57
WHT-334*	**3.346**	**3.525**	.120	**3.550**		.111		.250		46,670	21,290	O/R
WHT-346*	**3.464**	**3.650**	.120	**3.675**		.111		.250		48,320	22,770	O/R
WHT-350*	**3.500**	**3.690**	.120	**3.716**		.111		.250		48,820	23,500	18.04
WHT-354*	**3.543**	**3.735**	.120	**3.761**		.111		.250		49,420	24,040	O/R
WHT-356*	**3.562**	**3.756**	.120	**3.783**		.111		.250		49,690	24,420	O/R
WHT-362*	**3.625**	**3.822**	.120	**3.849**		.111		.250		50,560	25,370	O/R
WHT-375*	**3.750**	**3.955**	.120	**3.982**		.111		.250		52,310	27,300	O/R
WHT-387*	**3.875**	**4.087**	.120	**4.115**		.111		.250		54,050	29,030	O/R
WHT-393*	**3.938**	**4.150**	.120	**4.178**		.111	+/-.003	.250		54,930	29,510	15.87
WHT-400*	**4.000**	**4.220**	.120	**4.248**		.111		.250		55,800	31,100	17.02
WHT-412*	**4.125**	**4.345**	.120	**4.373**	+.035 -.000	.111		.312	+.006 -.006	57,540	32,070	O/R
WHT-425*	**4.250**	**4.470**	.120	**4.500**		.111		.312		59,280	33,050	O/R
WHT-433*	**4.330**	**4.556**	.120	**4.586**		.111		.312		60,400	34,590	O/R
WHT-450*	**4.500**	**4.735**	.120	**4.768**		.111		.312		62,770	37,530	23.62
WHT-462*	**4.625**	**4.865**	.120	**4.897**		.111		.312		64,510	39,230	30.25
WHT-475*	**4.750**	**4.995**	.120	**5.028**		.111		.312		66,260	41,300	26.63
WHT-500	**5.000**	**5.260**	.120	**5.295**		.111		.312		69,740	45,950	27.69
WHT-525*	**5.250**	**5.520**	.139	**5.559**	+.045 -.000	.127	+/-.004	.375		83,790	50,100	O/R
WHT-537*	**5.375**	**5.645**	.139	**5.685**		.127		.375		85,780	51,290	O/R
WHT-550*	**5.500**	**5.770**	.139	**5.810**		.127		.375		87,780	52,480	29.85
WHT-575*	**5.750**	**6.020**	.139	**6.062**		.127		.375		91,770	54,870	O/R
WHT-600	**6.000**	**6.270**	.139	**6.314**		.127		.375		95,760	57,260	30.07
WHT-625*	**6.250**	**6.530**	.174	**6.576**	+.055 -.000	.165	+/-.005	.312		129,590	61,850	57.88
WHT-650*	**6.500**	**6.790**	.174	**6.837**		.165		.312		134,780	66,620	94.81
WHT-662*	**6.625**	**6.925**	.174	**6.973**		.165		.312		137,370	70,240	121.00
WHT-675*	**6.750**	**7.055**	.174	**7.104**		.165		.312		139,960	73,000	O/R
WHT-700*	**7.000**	**7.315**	.174	**7.366**		.165		.312		145,140	78,180	68.38
WHT-725*	**7.250**	**7.575**	.209	**7.628**	+.070 -.000	.189		.375		172,190	83,530	O/R
WHT-750*	**7.500**	**7.840**	.209	**7.895**		.189		.375		178,130	90,120	O/R
WHT-775	**7.750**	**8.100**	.209	**8.156**		.189		.375		184,070	95,870	90.44
WHT-800*	**8.000**	**8.360**	.209	**8.418**		.189		.375		190,000	101,790	98.73

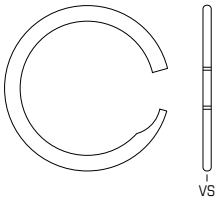
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WHT - Spiral Internal

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WHT-825*	**8.250**	**8.620**	.209	**8.680**	+.070 -.000	.189	+/-.005	.375	+.006 -.006	195,940	107,880	O/R
WHT-850*	**8.500**	**8.880**	.209	**8.942**		.189		.375		201,880	114,160	O/R
WHT-875	**8.750**	**9.145**	.209	**9.209**		.189		.375		207,820	122,460	102.90
WHT-900*	**9.000**	**9.405**	.209	**9.471**		.189		.375		213,750	129,140	O/R
WHT-925*	**9.250**	**9.669**	.209	**9.736**		.189		.375		219,690	137,310	O/R
WHT-950*	**9.500**	**9.930**	.209	**9.999**		.189		.375		225,630	144,380	O/R
WHT-975*	**9.750**	**10.189**	.209	**10.260**		.189		.375		231,570	151,620	103.45
WHT-1000*	**10.000**	**10.450**	.209	**10.552**		.189		.375		237,500	159,040	O/R
WHT-1050*	**10.500**	**10.970**	.209	**11.072**		.189		.375		249,380	174,420	180.24

VS series - Spiral External





Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
VS-25*	**0.250**	**0.238**	.015	**0.236**	+.010 -.000	.012	+/-.0015	.020	+.004 -.004	481	106	O/R
VS-31*	**0.312**	**0.297**	.018	**0.294**		.015		.025		750	165	O/R
VS-37*	**0.375**	**0.351**	.018	**0.348**		.015		.025		901	318	O/R
VS-43*	**0.437**	**0.413**	.018	**0.410**	+0.12/-0.00	.015		.035		1,050	371	O/R
VS-50*	**0.500**	**0.472**	.022	**0.467**	+.013 -.000	.018		.045		1,300	500	O/R
VS-56*	**0.562**	**0.534**	.022	**0.529**		.018		.045		1,460	560	O/R
VS-62*	**0.625**	**0.597**	.022	**0.591**		.018		.045		1,630	620	O/R
VS-68*	**0.687**	**0.659**	.022	**0.652**		.018		.045		1,790	680	O/R
VS-75*	**0.750**	**0.722**	.022	**0.715**		.018		.045		1,950	740	O/R
VS-81*	**0.812**	**0.770**	.026	**0.762**		.021		.065		2,460	1,210	O/R
VS-87*	**0.875**	**0.833**	.026	**0.825**		.021		.065		2,660	1,300	O/R
VS-93*	**0.937**	**0.895**	.026	**0.886**		.021		.065		2,840	1,390	O/R
VS-100*	**1.000**	**0.958**	.026	**0.949**		.021		.065		3,040	1,480	O/R
VS-106*	**1.062**	**1.018**	.031	**1.008**	+.015 -.000	.025		.088		3,500	1,650	O/R
VS-112*	**1.125**	**1.081**	.031	**1.071**		.025		.088		3,710	1,750	O/R
VS-118*	**1.187**	**1.143**	.031	**1.132**		.025		.088		3,920	1,850	0.80
VS-125*	**1.250**	**1.206**	.031	**1.194**		.025		.088		4,120	1,940	O/R
VS-131*	**1.312**	**1.268**	.031	**1.255**		.025		.088		4,330	2,040	O/R
VS-137*	**1.375**	**1.331**	.031	**1.318**		.025		.088		4,540	2,140	1.49
VS-143*	**1.437**	**1.393**	.031	**1.379**		.025		.088		4,740	2,240	O/R
VS-150*	**1.500**	**1.456**	.031	**1.442**		.025		.088		4,950	2,330	O/R

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
VS-156*	**1.562**	**1.505**	.039	**1.488**	+.000 -.020	.031	+/-.002	.118	+.004 -.004	6,390	3,200	O/R
VS-162*	**1.625**	**1.568**	.039	**1.550**		.031		.118		6,650	3,330	1.62
VS-168*	**1.687**	**1.630**	.039	**1.612**		.031		.118		6,900	3,460	O/R
VS-175*	**1.750**	**1.693**	.039	**1.674**		.031		.118		7,160	3,590	O/R
VS-181*	**1.812**	**1.755**	.039	**1.736**		.031		.118		7,410	3,710	O/R
VS-187*	**1.875**	**1.818**	.039	**1.798**		.031		.118		7,670	3,840	2.02
VS-193*	**1.937**	**1.880**	.039	**1.859**		.031		.118		7,920	3,970	O/R
VS-200*	**2.000**	**1.943**	.039	**1.922**		.031		.118		8,180	4,100	O/R
VS-206*	**2.062**	**1.986**	.039	**1.963**	+.000 -.025	.031		.158		8,430	5,540	2.65
VS-212*	**2.125**	**2.049**	.039	**2.026**		.031		.158		8,690	5,710	O/R
VS-218*	**2.187**	**2.111**	.039	**2.087**		.031		.158		8,950	5,870	O/R
VS-225*	**2.250**	**2.174**	.039	**2.149**		.031		.158		9,200	6,040	2.86
VS-231*	**2.312**	**2.236**	.039	**2.211**		.031		.158		9,460	6,210	O/R
VS-237*	**2.375**	**2.299**	.039	**2.273**		.031		.158		9,720	6,380	O/R
VS-243*	**2.437**	**2.361**	.039	**2.335**		.031		.158		9,970	6,550	O/R
VS-250*	**2.500**	**2.424**	.039	**2.397**		.031		.158		10,230	6,720	O/R
VS-256*	**2.562**	**2.486**	.039	**2.458**		.031		.158		10,480	6,880	O/R
VS-262*	**2.625**	**2.549**	.039	**2.521**		.031		.158		10,740	7,050	O/R
VS-268*	**2.687**	**2.611**	.039	**2.582**		.031		.158		10,990	7,220	O/R
VS-275*	**2.750**	**2.674**	.039	**2.644**		.031		.158		11,250	7,390	O/R
VS-281*	**2.812**	**2.736**	.039	**2.706**		.031		.158		11,500	7,550	O/R
VS-287*	**2.875**	**2.799**	.039	**2.768**		.031		.158		11,760	7,720	O/R
VS-293*	**2.937**	**2.861**	.039	**2.830**		.031		.158		12,010	7,890	O/R
VS-300*	**3.000**	**2.924**	.039	**2.892**		.031		.158		12,270	8,060	3.35
VS-306*	**3.062**	**2.970**	.044	**2.938**	+.000 -.030	.039		.188	+.005 -.005	15,760	9,960	O/R
VS-312*	**3.125**	**3.033**	.044	**3.001**		.039		.188		16,080	10,160	O/R
VS-318*	**3.187**	**3.095**	.044	**3.062**		.039		.188		16,400	10,360	O/R
VS-325*	**3.250**	**3.158**	.044	**3.125**		.039		.188		16,720	10,570	O/R
VS-331*	**3.312**	**3.220**	.044	**3.186**		.039		.188		17,040	10,770	O/R
VS-337*	**3.375**	**3.283**	.044	**3.248**		.039		.188		17,370	10,970	O/R
VS-343*	**3.437**	**3.345**	.044	**3.310**		.039		.188		17,690	11,180	O/R
VS-350*	**3.500**	**3.408**	.044	**3.372**		.039		.188		18,010	11,380	O/R
VS-356*	**3.562**	**3.470**	.044	**3.433**		.039		.188		18,330	11,580	O/R
VS-362*	**3.625**	**3.533**	.044	**3.496**		.039		.188		18,650	11,790	O/R
VS-368*	**3.687**	**3.595**	.044	**3.557**		.039		.188		18,970	11,990	O/R
VS-375*	**3.750**	**3.658**	.044	**3.620**		.039		.188		19,300	12,190	8.09
VS-381*	**3.812**	**3.720**	.044	**3.681**		.039		.188		19,620	12,400	O/R
VS-387*	**3.875**	**3.783**	.044	**3.743**		.039		.188		19,940	12,600	O/R
VS-393*	**3.937**	**3.845**	.044	**3.805**		.039		.188		20,260	12,800	O/R
VS-400*	**4.000**	**3.908**	.044	**3.867**		.039		.188		20,580	13,010	5.79
VS-412*	**4.125**	**4.015**	.052	**3.973**	+.000 -.035	.046		.225		23,850	16,040	5.79
VS-425*	**4.250**	**4.140**	.052	**4.097**		.046		.225		24,570	16,520	O/R
VS-437*	**4.375**	**4.265**	.052	**4.221**		.046		.225		25,290	17,010	O/R
VS-450*	**4.500**	**4.390**	.052	**4.345**		.046		.225		26,010	17,500	O/R
VS-462*	**4.625**	**4.515**	.052	**4.468**		.046		.225		26,740	17,980	O/R
VS-475*	**4.750**	**4.640**	.052	**4.592**		.046		.225		27,460	18,470	O/R

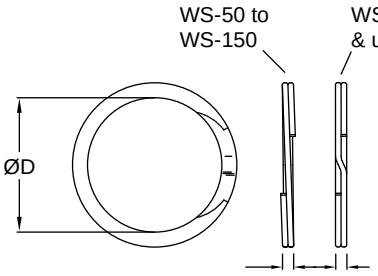
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

VS series - Spiral External

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
VS-487*	**4.875**	**4.765**	.052	**4.715**	+.000 -.035	.046	+/-.002	.225	+.005 -.005	28,180	18,950	O/R
VS-500*	**5.000**	**4.890**	.052	**4.839**		.046		.225		28,900	19,440	O/R
VS-525*	**5.250**	**5.119**	.067	**5.067**	+.000 -.045	.061		.225		40,240	24,490	32.10
VS-550*	**5.500**	**5.363**	.067	**5.309**		.061		.225		42,160	26,830	O/R
VS-575*	**5.750**	**5.606**	.067	**5.550**		.061		.225		44,080	29,260	O/R
VS-600*	**6.000**	**5.850**	.067	**5.792**		.061		.225		45,990	31,810	O/R
VS-625*	**6.250**	**6.094**	.067	**6.033**		.061		.265		47,910	34,460	24.25
VS-650*	**6.500**	**6.338**	.067	**6.275**		.061		.265		49,830	37,220	O/R
VS-675*	**6.750**	**6.581**	.067	**6.515**		.061		.265		51,740	40,560	O/R
VS-700*	**7.000**	**6.825**	.067	**6.757**		.061		.265		53,660	43,540	O/R
VS-725*	**7.250**	**7.069**	.067	**6.998**		.061		.300	+.004 -.008	55,580	46,640	O/R
VS-750*	**7.500**	**7.313**	.067	**7.240**	+.000 -.060	.061		.300		57,490	49,830	O/R
VS-775*	**7.750**	**7.556**	.067	**7.480**		.061		.300		59,410	53,140	O/R
VS-800*	**8.000**	**7.800**	.067	**7.722**		.061		.300		61,320	56,550	O/R
VS-825*	**8.250**	**8.044**	.082	**7.964**		.076		.345		78,790	60,070	O/R
VS-850*	**8.500**	**8.288**	.082	**8.205**		.076		.345		81,180	63,690	O/R
VS-875*	**8.750**	**8.531**	.082	**8.446**		.076		.345		83,570	68,040	O/R
VS-900*	**9.000**	**8.775**	.082	**8.687**	+.000 -.070	.076		.345		85,950	71,890	O/R
VS-925*	**9.250**	**9.019**	.082	**8.929**		.076		.345		88,340	75,850	O/R
VS-950*	**9.500**	**9.263**	.082	**9.170**		.076		.345		90,730	79,910	O/R
VS-975*	**9.750**	**9.506**	.082	**9.411**		.076		.345		93,120	84,080	O/R
VS-1000*	**10.000**	**9.750**	.082	**9.653**		.076		.345		95,500	88,360	O/R

WS series - Spiral External





Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WS-50*	**0.500**	**0.474**	.030	**0.467**	+.000 -.013	.025	+/-.002	.045	+.004 -.004	2,000	460	O/R
WS-53*	**0.531**	**0.505**	.030	**0.498**		.025		.045		2,130	490	O/R
WS-55*	**0.551**	**0.525**	.030	**0.518**		.025		.045		2,210	510	O/R
WS-56*	**0.562**	**0.536**	.030	**0.529**		.025		.045		2,250	520	O/R
WS-59*	**0.594**	**0.569**	.030	**0.561**		.025		.045		2,380	550	O/R
WS-62*	**0.625**	**0.594**	.030	**0.585**		.025		.055		2,500	710	O/R
WS-65*	**0.656**	**0.625**	.030	**0.617**		.025		.055		2,630	740	O/R
WS-66*	**0.669**	**0.638**	.030	**0.629**		.025		.055		2,680	760	O/R

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WS-68*	**0.687**	**0.656**	.030	**0.647**	+.000 -.013	.025	+/-.002	.055	+.004 -.004	2,750	780	O/R
WS-71*	**0.718**	**0.687**	.030	**0.679**		.025		.055		2,880	810	O/R
WS-75*	**0.750**	**0.719**	.036	**0.710**		.031		.065		3,360	850	O/R
WS-78*	**0.781**	**0.750**	.036	**0.741**		.031		.065		3,500	880	O/R
WS-81*	**0.812**	**0.781**	.036	**0.771**		.031		.065		3,640	920	O/R
WS-84*	**0.843**	**0.812**	.036	**0.803**		.031		.065		3,780	950	O/R
WS-87*	**0.875**	**0.838**	.036	**0.828**		.031		.065		3,920	1,180	O/R
WS-90*	**0.906**	**0.869**	.036	**0.860**		.031		.065		4,060	1,220	O/R
WS-93*	**0.937**	**0.900**	.036	**0.889**		.031		.065		4,200	1,260	O/R
WS-96*	**0.968**	**0.925**	.042	**0.916**		.037		.075		5,180	1,440	O/R
WS-98*	**0.984**	**0.941**	.042	**0.930**		.037		.075		5,260	1,460	O/R
WS-100	**1.000**	**0.957**	.042	**0.946**		.037		.075		5,350	1,480	2.51
WS-102*	**1.023**	**0.980**	.042	**0.968**		.037		.075		5,470	1,520	O/R
WS-103*	**1.031**	**0.988**	.042	**0.978**		.037		.075		5,510	1,530	1.21
WS-106*	**1.062**	**1.020**	.042	**1.007**	+.000 -.015	.037		.075		5,680	1,580	O/R
WS-109*	**1.093**	**1.051**	.042	**1.040**		.037		.075		5,840	1,620	O/R
WS-112*	**1.125**	**1.083**	.042	**1.070**		.037		.075		6,020	1,670	O/R
WS-115*	**1.156**	**1.114**	.042	**1.102**		.037		.075		6,180	1,720	O/R
WS-118*	**1.188**	**1.140**	.048	**1.127**		.043		.085		7,380	2,020	O/R
WS-121*	**1.218**	**1.170**	.048	**1.159**		.043		.085		7,570	2,070	O/R
WS-125*	**1.250**	**1.202**	.048	**1.188**		.043		.085		7,770	2,120	O/R
WS-128*	**1.281**	**1.233**	.048	**1.221**		.043		.085		7,960	2,170	O/R
WS-131*	**1.312**	**1.264**	.048	**1.251**		.043		.095		8,150	2,230	1.99
WS-134*	**1.343**	**1.295**	.048	**1.282**		.043		.095		8,350	2,280	O/R
WS-137*	**1.375**	**1.323**	.048	**1.308**		.043		.095		8,540	2,530	1.99
WS-140*	**1.406**	**1.354**	.048	**1.340**		.043		.095		8,740	2,580	O/R
WS-143*	**1.437**	**1.385**	.048	**1.370**		.043		.095		8,930	2,640	2.42
WS-146*	**1.468**	**1.416**	.048	**1.402**		.043		.095		9,120	2,700	O/R
WS-150	**1.500**	**1.448**	.048	**1.433**		.043		.095		9,320	2,760	2.49
WS-156*	**1.562**	**1.507**	.056	**1.490**	+.000 -.020	.049	+/-.003	.108		10,100	3,090	O/R
WS-157*	**1.575**	**1.520**	.056	**1.503**		.049		.108		10,190	3,120	O/R
WS-162*	**1.625**	**1.566**	.056	**1.549**		.049		.108		10,510	3,450	O/R
WS-168*	**1.687**	**1.628**	.056	**1.610**		.049		.118		10,910	3,580	O/R
WS-175	**1.750**	**1.691**	.056	**1.673**		.049		.118		11,310	3,710	3.63
WS-177*	**1.771**	**1.708**	.056	**1.690**		.049		.118		11,450	4,010	O/R
WS-181*	**1.813**	**1.749**	.056	**1.730**		.049		.118		11,720	4,100	O/R
WS-187*	**1.875**	**1.808**	.056	**1.789**		.049		.128		12,120	4,510	O/R
WS-193*	**1.938**	**1.871**	.056	**1.851**		.049		.128		12,530	4,660	O/R
WS-196*	**1.969**	**1.902**	.056	**1.882**		.049		.128		12,730	4,730	3.89
WS-200	**2.000**	**1.929**	.056	**1.909**		.049		.128		12,930	4,950	3.37
WS-206*	**2.062**	**1.992**	.056	**1.971**		.049		.128		13,330	5,100	7.99
WS-212*	**2.125**	**2.051**	.056	**2.029**		.049		.128		13,740	5,560	3.10
WS-215*	**2.156**	**2.082**	.056	**2.060**	+.000 -.025	.049		.138		13,940	5,640	O/R
WS-216*	**2.165**	**2.091**	.056	**2.070**		.049		.138		14,000	5,660	O/R
WS-218*	**2.188**	**2.113**	.056	**2.092**		.049		.138		14,150	5,720	O/R
WS-225	**2.250**	**2.176**	.056	**2.153**		.049		.138		14,550	5,890	4.96

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WS series - Spiral External

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WS-231*	**2.312**	**2.234**	.056	**2.211**	+.000 -.025	.049	+/-.003	.138	+.004 -.004	14,950	6,370	9.39
WS-236*	**2.362**	**2.284**	.056	**2.261**		.049		.138		15,270	6,510	10.96
WS-237*	**2.375**	**2.297**	.056	**2.273**		.049		.138		15,360	6,550	O/R
WS-243*	**2.437**	**2.355**	.056	**2.331**		.049		.148		15,760	7,060	O/R
WS-250*	**2.500**	**2.418**	.056	**2.394**		.049		.148		16,160	7,250	7.57
WS-255*	**2.559**	**2.473**	.056	**2.449**		.049		.148		16,550	7,780	O/R
WS-256*	**2.562**	**2.476**	.056	**2.452**		.049		.148		16,560	7,790	O/R
WS-262*	**2.625**	**2.539**	.056	**2.514**		.049		.148		16,970	7,980	O/R
WS-268*	**2.688**	**2.597**	.056	**2.572**		.049		.158		17,380	8,550	8.06
WS-275*	**2.750**	**2.660**	.056	**2.635**	+.000 -.030	.049		.158		17,780	8,750	8.06
WS-281*	**2.813**	**2.722**	.056	**2.696**		.049		.168	+.005 -.005	18,190	8,950	O/R
WS-287*	**2.875**	**2.781**	.056	**2.755**		.049		.168		18,590	9,550	O/R
WS-293*	**2.937**	**2.843**	.056	**2.817**		.049		.168		18,990	9,760	10.53
WS-295*	**2.952**	**2.858**	.056	**2.831**		.049		.168		19,090	9,810	O/R
WS-300	**3.000**	**2.904**	.068	**2.877**		.061		.168		24,150	10,180	9.14
WS-306*	**3.062**	**2.966**	.068	**2.938**		.061		.168		24,650	10,390	O/R
WS-312*	**3.125**	**3.027**	.068	**3.000**		.061		.178		25,150	10,820	10.57
WS-314*	**3.149**	**3.051**	.068	**3.023**		.061		.178		25,350	10,910	O/R
WS-318*	**3.187**	**3.089**	.068	**3.061**		.061		.178		25,650	11,040	O/R
WS-325*	**3.250**	**3.150**	.068	**3.121**		.061		.178		26,160	11,490	12.85
WS-331*	**3.312**	**3.208**	.068	**3.180**		.061		.188		26,660	12,170	O/R
WS-334*	**3.343**	**3.239**	.068	**3.210**		.061		.188		26,910	12,290	14.82
WS-337*	**3.375**	**3.271**	.068	**3.242**		.061		.188		27,170	12,410	3.80
WS-343*	**3.437**	**3.331**	.068	**3.301**		.061		.188		27,660	12,880	O/R
WS-350*	**3.500**	**3.394**	.068	**3.363**	+.000 -.040	.061		.188		28,170	13,110	9.04
WS-354*	**3.543**	**3.433**	.068	**3.402**		.061		.198		28,520	13,770	O/R
WS-356*	**3.562**	**3.452**	.068	**3.422**		.061		.198		28,670	13,850	O/R
WS-362*	**3.625**	**3.515**	.068	**3.483**		.061		.198		29,180	14,090	7.01
WS-368*	**3.687**	**3.575**	.068	**3.543**		.061		.198		29,680	14,600	O/R
WS-374*	**3.740**	**3.628**	.068	**3.597**		.061		.198		30,100	14,800	O/R
WS-375*	**3.750**	**3.638**	.068	**3.606**		.061		.198		30,180	14,840	O/R
WS-381*	**3.812**	**3.700**	.068	**3.668**		.061		.198		30,680	15,090	O/R
WS-387*	**3.875**	**3.757**	.068	**3.724**		.061		.208		31,190	16,160	O/R
WS-393*	**3.938**	**3.820**	.068	**3.784**		.061		.208		31,700	16,420	O/R
WS-400*	**4.000**	**3.876**	.068	**3.842**		.061		.218		32,200	17,530	9.97
WS-406*	**4.063**	**3.939**	.068	**3.906**		.061		.218		32,700	17,810	O/R
WS-412*	**4.125**	**4.000**	.068	**3.967**		.061		.218		33,200	18,080	O/R
WS-413*	**4.134**	**4.010**	.068	**3.975**		.061		.218		33,270	18,120	O/R
WS-418*	**4.188**	**4.058**	.068	**4.022**		.061		.218		33,710	19,240	O/R
WS-425*	**4.250**	**4.120**	.068	**4.084**		.061		.228		34,210	19,530	O/R
WS-431*	**4.312**	**4.182**	.068	**4.147**		.061		.228		34,710	19,810	O/R
WS-433*	**4.331**	**4.200**	.068	**4.164**		.061		.228		34,860	19,900	O/R
WS-437*	**4.375**	**4.245**	.068	**4.208**		.061		.228		35,210	20,100	O/R
WS-443*	**4.437**	**4.307**	.068	**4.271**		.061		.228		35,710	20,390	O/R
WS-450	**4.500**	**4.364**	.068	**4.326**		.061		.238		36,220	21,630	15.16
WS-456*	**4.562**	**4.422**	.079	**4.384**		.072	+/-.004	.250		43,340	22,570	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WS-462*	**4.625**	**4.485**	.079	**4.447**	+.000 -.040	.072	+/-.004	.250	+.005 -.005	43,940	22,890	O/R
WS-468*	**4.687**	**4.547**	.079	**4.508**		.072		.250		44,530	23,190	O/R
WS-472*	**4.724**	**4.584**	.079	**4.546**		.072		.250		44,880	23,370	O/R
WS-475*	**4.750**	**4.610**	.079	**4.571**		.072		.250		45,130	23,500	O/R
WS-481*	**4.812**	**4.672**	.079	**4.633**		.072		.250		45,720	23,810	O/R
WS-487*	**4.875**	**4.735**	.079	**4.695**		.072		.250		46,310	24,120	O/R
WS-493*	**4.937**	**4.797**	.079	**4.757**		.072		.250		46,900	24,430	O/R
WS-500*	**5.000**	**4.856**	.079	**4.816**		.072		.250		47,500	25,450	O/R
WS-511*	**5.118**	**4.974**	.079	**4.934**		.072		.250		48,620	26,050	O/R
WS-512*	**5.125**	**4.981**	.079	**4.939**		.072		.250		48,690	26,080	O/R
WS-525*	**5.250**	**5.107**	.079	**5.064**	+.000 -.050	.072		.250		49,880	26,720	23.75
WS-537*	**5.375**	**5.228**	.079	**5.187**		.072		.250		51,060	28,120	26.20
WS-550	**5.500**	**5.353**	.079	**5.308**		.072		.250		52,250	28,770	27.20
WS-551*	**5.511**	**5.364**	.079	**5.320**		.072		.250		52,360	28,830	O/R
WS-562*	**5.625**	**5.478**	.079	**5.433**		.072		.250		53,440	29,420	O/R
WS-575*	**5.750**	**5.597**	.079	**5.550**		.072		.250		54,630	31,300	O/R
WS-587*	**5.875**	**5.722**	.079	**5.674**		.072		.250		55,810	31,980	O/R
WS-590*	**5.905**	**5.752**	.079	**5.705**		.072		.250		56,100	32,140	O/R
WS-600*	**6.000**	**5.847**	.079	**5.798**		.072		.250		57,000	32,660	O/R
WS-612*	**6.125**	**5.953**	.094	**5.903**		.086		.312	+.006 -.006	69,500	37,230	O/R
WS-625*	**6.250**	**6.078**	.094	**6.026**	+.000 -.060	.086		.312		70,920	37,990	O/R
WS-629*	**6.299**	**6.127**	.094	**6.076**		.086		.312		71,480	38,290	O/R
WS-637*	**6.375**	**6.203**	.094	**6.152**		.086		.312		72,340	38,750	O/R
WS-650*	**6.500**	**6.328**	.094	**6.274**		.086		.312		73,760	39,510	22.14
WS-662*	**6.625**	**6.443**	.094	**6.390**		.086		.312		75,180	42,620	O/R
WS-675*	**6.750**	**6.568**	.094	**6.513**		.086		.312		76,600	43,420	22.66
WS-687*	**6.875**	**6.693**	.094	**6.638**		.086		.312		78,010	44,220	O/R
WS-700*	**7.000**	**6.818**	.094	**6.761**		.086		.312		79,430	45,030	O/R
WS-712*	**7.125**	**6.933**	.094	**6.877**		.086		.312		80,850	48,350	O/R
WS-725*	**7.250**	**7.058**	.094	**6.999**		.086		.312		82,270	49,200	O/R
WS-737*	**7.375**	**7.183**	.094	**7.125**		.086		.312		83,690	50,050	O/R
WS-750*	**7.500**	**7.308**	.094	**7.250**	+.000 -.070	.086		.312		85,110	50,890	O/R
WS-762*	**7.625**	**7.423**	.094	**7.363**		.086		.312		86,520	54,440	O/R
WS-775*	**7.750**	**7.548**	.094	**7.486**		.086		.312		87,940	55,330	O/R
WS-787*	**7.875**	**7.673**	.094	**7.611**		.086		.312		89,360	56,220	O/R
WS-800*	**8.000**	**7.798**	.094	**7.734**		.086		.312		90,780	57,110	O/R
WS-825*	**8.250**	**8.038**	.094	**7.972**		.086		.375		93,620	61,820	O/R
WS-850*	**8.500**	**8.288**	.094	**8.220**		.086		.375		96,450	63,690	O/R
WS-875*	**8.750**	**8.528**	.094	**8.459**		.086		.375		99,290	68,650	O/R
WS-900*	**9.000**	**8.778**	.094	**8.707**		.086		.375		102,130	70,620	42.42
WS-925*	**9.250**	**9.018**	.094	**8.945**		.086		.375		104,960	75,850	O/R
WS-950*	**9.500**	**9.268**	.094	**9.194**		.086		.375		107,800	77,900	O/R
WS-975*	**9.750**	**9.508**	.094	**9.432**		.086		.375		110,640	83,390	O/R
WS-1000*	**10.000**	**9.758**	.094	**9.680**		.086		.375		113,470	85,530	O/R
WS-1025*	**10.250**	**9.998**	.094	**9.918**		.086		.375		116,310	91,290	O/R
WS-1050*	**10.500**	**10.248**	.094	**10.166**		.086		.375		119,150	93,520	O/R

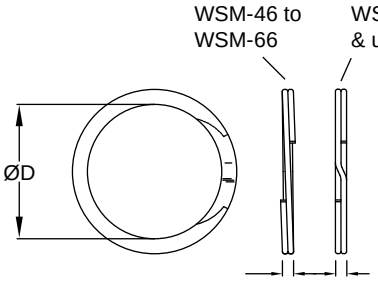
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WS series - Spiral External

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WS-1075*	**10.750**	**10.488**	.094	**10.405**	+.000 -.070	.086	+/-.004	.375	+.006 -.006	121,990	99,540	O/R
WS-1100*	**11.000**	**10.738**	.094	**10.653**		.086		.375		124,820	101,860	O/R

WSM series - Spiral External





Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WSM-25*	**0.250**	**0.230**	.029	**0.228**	+.010 -.000	.025	+/-.002	.020	+.004 -.004	961	177	O/R
WSM-31*	**0.312**	**0.290**	.029	**0.287**		.025		.025		1,200	243	O/R
WSM-37*	**0.375**	**0.352**	.029	**0.349**		.025		.030		1,442	305	O/R
WSM-43*	**0.437**	**0.412**	.029	**0.409**	+0.12/-0.00	.025		.035		1,680	386	O/R
WSM-46*	**0.469**	**0.443**	.029	**0.439**	+.013 -.000	.025		.045		1,880	430	O/R
WSM-50*	**0.500**	**0.468**	.039	**0.464**		.035		.050		2,530	570	1.56
WSM-55*	**0.551**	**0.519**	.039	**0.514**		.035		.050		2,790	620	O/R
WSM-56*	**0.562**	**0.530**	.039	**0.525**		.035		.050		2,840	640	O/R
WSM-59*	**0.594**	**0.559**	.039	**0.554**		.035		.050		3,000	760	O/R
WSM-62*	**0.625**	**0.588**	.039	**0.583**		.035		.055		3,160	840	1.73
WSM-66*	**0.669**	**0.629**	.039	**0.623**		.035		.055		3,380	950	O/R
WSM-68*	**0.688**	**0.646**	.046	**0.641**		.042		.065		4,180	1,020	O/R
WSM-75*	**0.750**	**0.704**	.046	**0.698**		.042		.065		4,550	1,220	3.32
WSM-78*	**0.781**	**0.733**	.046	**0.727**	+.015 -.000	.042		.065		4,740	1,330	O/R
WSM-81*	**0.812**	**0.762**	.046	**0.756**		.042		.065		4,930	1,440	O/R
WSM-87*	**0.875**	**0.821**	.046	**0.814**		.042		.075		5,310	1,670	3.69
WSM-93*	**0.938**	**0.882**	.046	**0.875**		.042		.075		5,690	1,860	O/R
WSM-98*	**0.984**	**0.926**	.046	**0.919**		.042		.085		5,970	2,020	O/R
WSM-100*	**1.000**	**0.940**	.046	**0.932**		.042		.085		6,070	2,120	3.75
WSM-102*	**1.023**	**0.961**	.046	**0.953**		.042		.085		6,210	2,240	O/R
WSM-106*	**1.062**	**0.998**	.056	**0.986**		.050		.103		7,010	2,400	O/R
WSM-112*	**1.125**	**1.059**	.056	**1.047**		.050		.103		7,420	2,620	3.75
WSM-118*	**1.188**	**1.118**	.056	**1.105**		.050		.103		7,840	2,940	O/R
WSM-125*	**1.250**	**1.176**	.056	**1.163**		.050		.103		8,250	3,270	4.13
WSM-131*	**1.312**	**1.232**	.056	**1.218**		.050		.118		8,660	3,710	O/R
WSM-137*	**1.375**	**1.291**	.056	**1.277**		.050		.118		9,070	4,080	4.13
WSM-143*	**1.438**	**1.350**	.056	**1.336**		.050		.118		9,490	4,470	O/R
WSM-150*	**1.500**	**1.406**	.056	**1.390**		.050		.118		9,900	4,980	4.35

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

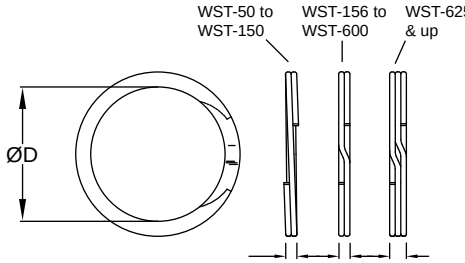
Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WSM-156*	**1.562**	**1.468**	.068	**1.453**	+.000 -.020	.062	+/-.003	.128	+.004 -.004	12,780	5,190	O/R
WSM-162*	**1.625**	**1.529**	.068	**1.513**		.062		.128		13,290	5,510	O/R
WSM-168*	**1.687**	**1.589**	.068	**1.573**		.062		.128		13,800	5,840	O/R
WSM-175*	**1.750**	**1.650**	.068	**1.633**		.062		.128		14,320	6,190	4.37
WSM-177*	**1.771**	**1.669**	.068	**1.651**		.062		.128		14,490	6,380	O/R
WSM-181*	**1.812**	**1.708**	.068	**1.690**		.062		.128		14,820	6,660	O/R
WSM-187*	**1.875**	**1.769**	.068	**1.751**		.062		.158		15,340	7,020	O/R
WSM-196*	**1.969**	**1.857**	.068	**1.838**		.062		.158		16,110	7,790	O/R
WSM-200*	**2.000**	**1.886**	.068	**1.867**		.062		.158		16,360	8,060	11.54
WSM-206*	**2.062**	**1.946**	.086	**1.932**	+.000 -.025	.078		.168	+.005 -.005	21,220	8,450	O/R
WSM-212*	**2.125**	**2.003**	.086	**1.989**		.078		.168		21,870	9,160	O/R
WSM-215*	**2.156**	**2.032**	.086	**2.018**		.078		.168		22,190	9,450	O/R
WSM-225*	**2.250**	**2.120**	.086	**2.105**		.078		.168		23,160	10,340	O/R
WSM-231*	**2.312**	**2.178**	.086	**2.163**		.078		.168		23,800	10,950	O/R
WSM-237	**2.375**	**2.239**	.086	**2.223**		.078		.200		24,440	11,420	6.47
WSM-243*	**2.437**	**2.299**	.086	**2.283**		.078		.200		25,080	11,890	O/R
WSM-250*	**2.500**	**2.360**	.086	**2.343**		.078		.200		25,730	12,370	O/R
WSM-255*	**2.559**	**2.419**	.086	**2.402**		.078		.200		26,340	12,660	O/R
WSM-262*	**2.625**	**2.481**	.086	**2.464**		.078		.200		27,020	13,360	13.30
WSM-268*	**2.687**	**2.541**	.086	**2.523**		.078		.200		27,660	13,870	O/R
WSM-275*	**2.750**	**2.602**	.103	**2.584**	+.000 -.030	.093		.225		32,140	14,390	O/R
WSM-287*	**2.875**	**2.721**	.103	**2.702**		.093		.225		33,600	15,650	O/R
WSM-293*	**2.937**	**2.779**	.103	**2.760**		.093		.225		34,320	16,400	O/R
WSM-300*	**3.000**	**2.838**	.103	**2.818**		.093		.225		35,060	17,180	O/R
WSM-306*	**3.062**	**2.898**	.103	**2.878**		.093		.225		35,790	17,750	O/R
WSM-312*	**3.125**	**2.957**	.103	**2.936**		.093		.225		36,520	18,560	O/R
WSM-315*	**3.156**	**2.986**	.103	**2.965**		.093		.225		36,880	18,960	O/R
WSM-325*	**3.250**	**3.076**	.103	**3.054**		.093		.225		37,980	19,990	14.23
WSM-334*	**3.344**	**3.166**	.103	**3.144**		.093		.225		39,080	21,040	O/R
WSM-343*	**3.437**	**3.257**	.103	**3.234**		.093		.225		40,170	21,870	O/R
WSM-350*	**3.500**	**3.316**	.120	**3.293**	+.000 -.035	.111		.270		48,820	22,760	O/R
WSM-354*	**3.543**	**3.357**	.120	**3.333**		.111		.270		49,420	23,290	O/R
WSM-362*	**3.625**	**3.435**	.120	**3.411**		.111		.270		50,560	24,340	O/R
WSM-368*	**3.687**	**3.493**	.120	**3.469**		.111		.270		51,430	25,280	O/R
WSM-375*	**3.750**	**3.552**	.120	**3.527**		.111		.270		52,310	26,240	O/R
WSM-387*	**3.875**	**3.673**	.120	**3.647**		.111		.270		54,050	27,670	O/R
WSM-393*	**3.938**	**3.734**	.120	**3.708**		.111		.270		54,930	28,390	O/R
WSM-400*	**4.000**	**3.792**	.120	**3.765**		.111		.270		55,800	29,410	O/R
WSM-425*	**4.250**	**4.065**	.120	**4.037**		.111		.270		59,280	27,940	O/R
WSM-437*	**4.375**	**4.190**	.120	**4.161**		.111		.270		61,030	28,760	O/R
WSM-450*	**4.500**	**4.310**	.120	**4.280**		.111		.270		62,770	30,220	O/R
WSM-475*	**4.750**	**4.550**	.120	**4.518**		.111		.270		66,260	36,930	O/R
WSM-500*	**5.000**	**4.790**	.120	**4.756**		.111		.270		69,740	37,110	O/R
WSM-525*	**5.250**	**5.030**	.139	**4.995**	+.000 -.050	.127	+/-.004	.350	+.006 -.006	83,790	40,820	O/R
WSM-550*	**5.500**	**5.265**	.139	**5.228**		.127		.350		87,780	45,880	O/R
WSM-575*	**5.750**	**5.505**	.139	**5.466**		.127		.350		91,770	49,990	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WSM series - Spiral External

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WSM-600*	**6.000**	**5.745**	.139	**5.705**	+.000/-.050	.127	+/-.004	.350	+.006/-.006	95,760	54,290	O/R
WSM-625*	**6.250**	**5.985**	.174	**5.938**	+.000 -.060	.156	+/-.005	.418	+.007 -.007	122,520	58,760	O/R
WSM-650*	**6.500**	**6.225**	.174	**6.181**		.156		.418		127,420	63,410	O/R
WSM-675*	**6.750**	**6.465**	.174	**6.410**		.156		.418		132,330	68,230	O/R
WSM-700*	**7.000**	**6.705**	.174	**6.648**		.156		.418		137,230	73,230	O/R
WSM-725*	**7.250**	**6.942**	.174	**6.891**		.156		.418		142,130	78,920	O/R
WSM-750*	**7.500**	**7.180**	.209	**7.130**	+.000 -.070	.187		.437		176,240	84,820	O/R
WSM-775*	**7.750**	**7.420**	.209	**7.368**		.187		.437		182,120	90,390	O/R
WSM-800*	**8.000**	**7.660**	.209	**7.606**		.187		.437		187,990	96,130	O/R
WSM-825*	**8.250**	**7.900**	.209	**7.845**		.187		.437		193,870	102,050	O/R
WSM-850*	**8.500**	**8.140**	.209	**8.083**		.187		.437		199,740	108,150	O/R
WSM-875*	**8.750**	**8.383**	.209	**8.324**		.187		.437		205,620	113,800	O/R
WSM-900*	**9.000**	**8.620**	.209	**8.560**		.187		.500		211,490	120,870	O/R
WSM-925*	**9.250**	**8.860**	.209	**8.798**		.187		.500		217,370	127,500	O/R
WSM-950*	**9.500**	**9.100**	.209	**9.036**		.187		.500		223,240	134,300	O/R
WSM-975*	**9.750**	**9.338**	.209	**9.275**		.187		.500		229,120	141,970	O/R
WSM-1000*	**10.000**	**9.575**	.209	**9.508**		.187		.500		234,990	150,560	O/R
WSM-1025*	**10.250**	**9.814**	.209	**9.745**	+.000 -.090	.187		.500		240,870	157,950	O/R
WSM-1050*	**10.500**	**10.054**	.209	**9.984**		.187		.500		246,740	165,510	O/R
WSM-1075*	**10.750**	**10.293**	.209	**10.221**		.187		.500		252,620	174,010	O/R
WSM-1100*	**11.000**	**10.533**	.209	**10.459**		.187		.500		258,490	181,950	O/R
WSM-1125*	**11.250**	**10.772**	.209	**10.692**		.187		.500		264,360	190,060	O/R
WSM-1150*	**11.500**	**11.011**	.209	**10.934**		.187		.562	+.015 -.010	270,240	199,160	O/R
WSM-1175*	**11.750**	**11.250**	.209	**11.171**		.187		.562		276,120	207,640	O/R
WSM-1200*	**12.000**	**11.490**	.209	**11.410**		.187		.562		281,990	216,300	O/R
WSM-1225*	**12.250**	**11.729**	.209	**11.647**		.187		.562		287,860	226,000	O/R
WSM-1250*	**12.500**	**11.969**	.209	**11.885**		.187		.562		293,740	235,030	O/R
WSM-1275*	**12.750**	**12.208**	.209	**12.124**	+.000 -.110	.187		.562		299,610	244,240	O/R
WSM-1300*	**13.000**	**12.448**	.209	**12.361**		.187		.662		305,490	253,620	O/R
WSM-1325*	**13.250**	**12.687**	.209	**12.598**		.187		.662		311,360	264,120	O/R
WSM-1350*	**13.500**	**12.927**	.209	**12.837**		.187		.662		317,240	273,870	O/R
WSM-1375*	**13.750**	**13.166**	.209	**13.074**		.187		.662		323,110	283,800	O/R
WSM-1400*	**14.000**	**13.405**	.209	**13.311**		.187		.662		328,990	294,900	O/R
WSM-1425*	**14.250**	**13.644**	.209	**13.548**		.187		.662		334,860	305,200	O/R
WSM-1450*	**14.500**	**13.884**	.209	**13.787**		.187		.750		340,740	315,680	O/R
WSM-1475*	**14.750**	**14.123**	.209	**14.024**		.187		.750		346,610	327,380	O/R
WSM-1500*	**15.000**	**14.363**	.209	**14.262**		.187		.750		352,490	338,230	O/R





Standard Material
Carbon Steel

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WST-46*	**0.469**	**0.443**	.029	**0.436**	+.000 -.013	.025	+/-.002	.045	+.004 -.004	1,800	430	O/R
WST-50*	**0.500**	**0.474**	.039	**0.469**		.035		.045		2,530	460	O/R
WST-55*	**0.551**	**0.524**	.039	**0.518**		.035		.045		2,790	550	O/R
WST-56*	**0.562**	**0.535**	.039	**0.529**		.035		.045		2,840	560	O/R
WST-59*	**0.594**	**0.565**	.039	**0.559**		.035		.045		3,000	630	O/R
WST-62*	**0.625**	**0.596**	.039	**0.590**		.035		.055		3,160	660	O/R
WST-66*	**0.669**	**0.638**	.039	**0.630**		.035		.055		3,380	760	O/R
WST-68*	**0.688**	**0.655**	.046	**0.648**		.042		.065		4,180	830	4.53
WST-75*	**0.750**	**0.715**	.046	**0.708**		.042		.065		4,550	950	1.37
WST-78*	**0.781**	**0.745**	.046	**0.738**		.042		.065		4,740	990	O/R
WST-81*	**0.812**	**0.776**	.046	**0.768**		.042		.065		4,930	1,030	O/R
WST-87*	**0.875**	**0.835**	.046	**0.827**		.042		.075		5,310	1,240	O/R
WST-93*	**0.938**	**0.894**	.046	**0.886**		.042		.075		5,690	1,460	2.87
WST-98*	**0.984**	**0.940**	.046	**0.934**		.042		.075		5,970	1,530	O/R
WST-100*	**1.000**	**0.955**	.046	**0.947**		.042		.075		6,070	1,630	O/R
WST-102*	**1.023**	**0.977**	.046	**0.969**		.042		.075		6,210	1,660	O/R
WST-106*	**1.062**	**1.015**	.056	**1.005**	+.000 -.015	.050		.088		7,010	1,800	4.10
WST-112*	**1.125**	**1.075**	.056	**1.064**		.050		.088		7,420	1,990	O/R
WST-118*	**1.188**	**1.135**	.056	**1.126**		.050		.088		7,370	2,270	O/R
WST-125*	**1.250**	**1.195**	.056	**1.184**		.050		.093		8,250	2,470	O/R
WST-131*	**1.312**	**1.250**	.056	**1.240**		.050		.098		8,660	2,880	O/R
WST-137*	**1.375**	**1.310**	.056	**1.298**		.050		.103		9,070	3,210	O/R
WST-143*	**1.438**	**1.370**	.056	**1.359**		.050		.103		9,490	3,460	O/R
WST-150*	**1.500**	**1.430**	.056	**1.419**		.050		.103		9,900	3,710	O/R
WST-156*	**1.562**	**1.490**	.068	**1.476**	+.000 -.020	.062	+/-.003	.108		12,780	3,980	O/R
WST-162*	**1.625**	**1.550**	.068	**1.537**		.062		.118		13,290	4,370	4.14
WST-168*	**1.687**	**1.610**	.068	**1.598**		.062		.118		13,800	4,650	7.23
WST-175*	**1.750**	**1.670**	.068	**1.657**		.062		.118		14,320	4,950	6.69
WST-177*	**1.771**	**1.689**	.068	**1.676**		.062		.123		14,490	5,130	O/R
WST-181*	**1.812**	**1.730**	.068	**1.714**		.062		.123		14,820	5,250	O/R
WST-187*	**1.875**	**1.790**	.068	**1.774**		.062		.123		15,340	5,700	6.80
WST-196*	**1.969**	**1.879**	.068	**1.864**		.062		.123		16,110	6,260	O/R
WST-200*	**2.000**	**1.910**	.068	**1.894**	+.000 -.025	.062		.128		16,360	6,360	O/R
WST-206*	**2.062**	**1.970**	.086	**1.955**		.078		.141		21,220	6,710	O/R
WST-212*	**2.125**	**2.027**	.086	**2.012**		.078		.141		21,870	7,360	O/R
WST-215*	**2.156**	**2.057**	.086	**2.041**		.078		.141		22,190	7,620	O/R
WST-225*	**2.250**	**2.145**	.086	**2.129**		.078		.141		23,160	8,430	O/R
WST-231*	**2.312**	**2.205**	.086	**2.188**		.078		.141		23,800	8,830	7.67
WST-237*	**2.375**	**2.265**	.086	**2.248**		.078		.141		24,440	9,230	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

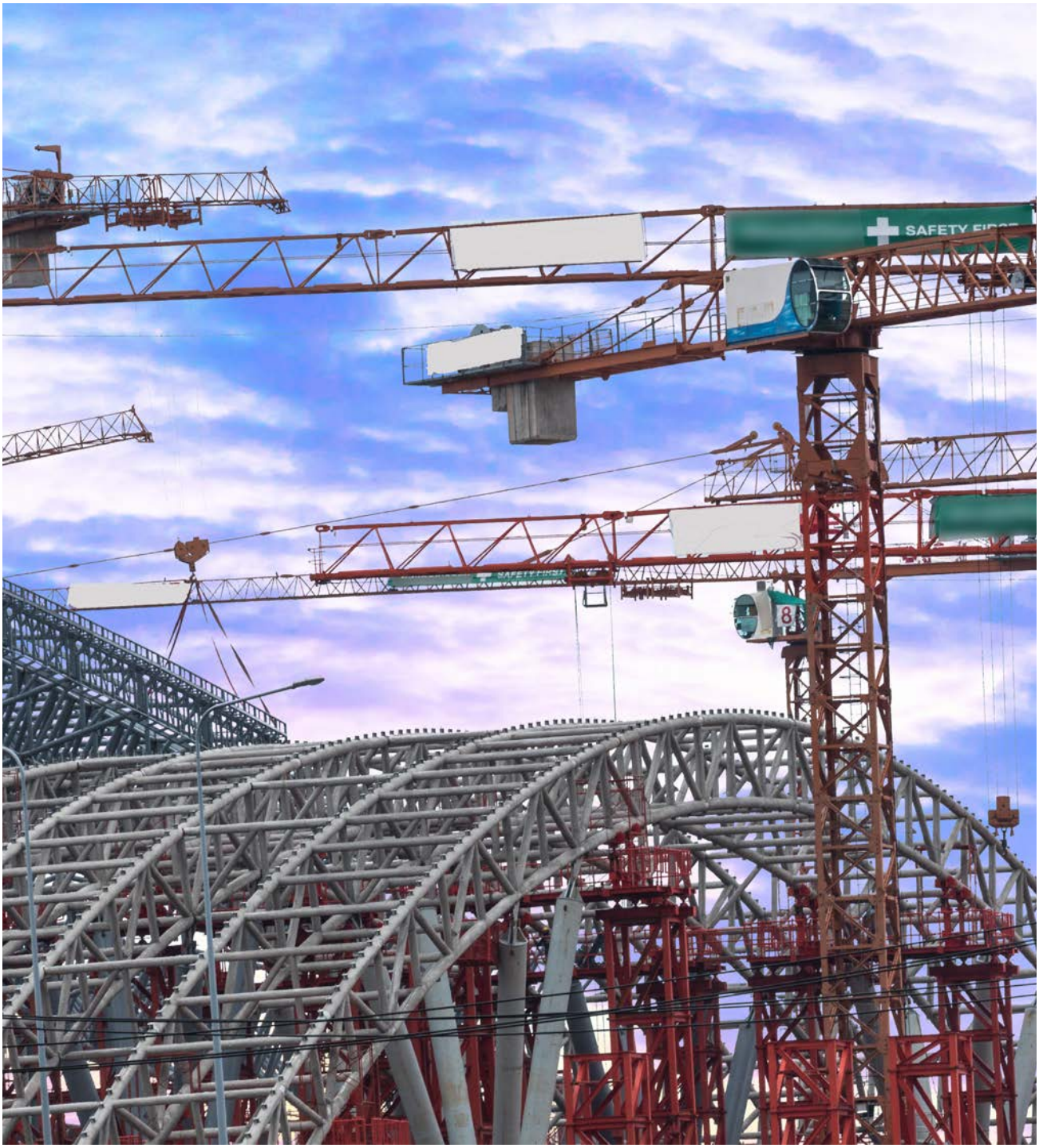
WST series - Spiral External

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WST-243*	**2.437**	**2.325**	.086	**2.307**	+.000 -.025	.078	+/-.003	.141	+.004/-.004	25,080	9,650	O/R
WST-250*	**2.500**	**2.385**	.086	**2.366**		.078		.188	+.005 -.005	25,730	10,250	12.49
WST-255*	**2.559**	**2.443**	.086	**2.424**		.078		.188		26,340	10,490	O/R
WST-262*	**2.625**	**2.505**	.086	**2.485**		.078		.188		27,020	11,130	13.30
WST-268*	**2.687**	**2.565**	.086	**2.545**		.078		.188		27,660	11,590	O/R
WST-275*	**2.750**	**2.625**	.103	**2.604**	+.000 -.030	.093		.188		32,140	12,250	12.45
WST-287*	**2.875**	**2.742**	.103	**2.722**		.093		.188		33,600	13,620	O/R
WST-293*	**2.937**	**2.801**	.103	**2.780**		.093		.188		34,320	14,120	O/R
WST-300*	**3.000**	**2.860**	.103	**2.838**		.093		.188		35,060	14,840	12.60
WST-306*	**3.062**	**2.920**	.103	**2.897**		.093		.188		35,790	15,370	O/R
WST-312*	**3.125**	**2.980**	.103	**2.957**		.093		.188		36,520	16,130	O/R
WST-315*	**3.156**	**3.010**	.103	**2.986**		.093		.188		36,880	16,290	O/R
WST-325*	**3.250**	**3.100**	.103	**3.075**		.093		.188		37,980	17,230	O/R
WST-334*	**3.344**	**3.190**	.103	**3.164**		.093		.188		39,080	18,200	O/R
WST-343*	**3.437**	**3.280**	.103	**3.254**		.093		.188		40,170	19,190	14.72
WST-350	**3.500**	**3.340**	.120	**3.153**	+.000 -.040	.111		.250		48,820	19,790	17.51
WST-354*	**3.543**	**3.381**	.120	**3.356**		.111		.250		49,420	20,290	O/R
WST-362*	**3.625**	**3.458**	.120	**3.433**		.111		.250		50,560	21,520	O/R
WST-368*	**3.687**	**3.517**	.120	**3.490**		.111		.250		51,430	22,150	O/R
WST-375*	**3.750**	**3.577**	.120	**3.550**		.111		.250		52,310	23,060	19.34
WST-387*	**3.875**	**3.696**	.120	**3.670**		.111		.250		54,050	24,650	O/R
WST-393*	**3.938**	**3.756**	.120	**3.730**		.111		.250		54,930	25,330	O/R
WST-400*	**4.000**	**3.815**	.120	**3.787**		.111		.250		55,800	26,300	31.57
WST-425*	**4.250**	**4.065**	.120	**4.032**		.111		.250		59,280	27,940	52.79
WST-437*	**4.375**	**4.190**	.120	**4.162**		.111		.250		61,030	28,760	O/R
WST-450*	**4.500**	**4.310**	.120	**4.280**		.111		.250		62,770	30,220	31.70
WST-475*	**4.750**	**4.550**	.120	**4.515**		.111		.250		66,260	33,580	O/R
WST-500*	**5.000**	**4.790**	.120	**4.755**		.111		.250		69,740	37,110	16.93
WST-525*	**5.250**	**5.030**	.139	**4.995**	+.000 -.050	.127	+/-.004	.375	+.006 -.006	83,790	40,820	O/R
WST-550*	**5.500**	**5.265**	.139	**5.229**		.127		.375		87,780	45,880	O/R
WST-575*	**5.750**	**5.505**	.139	**5.466**		.127		.375		91,770	49,990	O/R
WST-600*	**6.000**	**5.745**	.139	**5.705**		.127		.375		95,760	54,290	O/R
WST-625*	**6.250**	**5.985**	.174	**5.942**	+.000 -.060	.165	+/-.005	.312		129,590	58,760	O/R
WST-650*	**6.500**	**6.225**	.174	**6.182**		.165		.312		134,780	63,410	O/R
WST-675*	**6.750**	**6.465**	.174	**6.420**		.165		.312		139,960	68,230	77.07
WST-700*	**7.000**	**6.705**	.174	**6.658**		.165		.312		145,140	73,230	O/R
WST-725*	**7.250**	**6.942**	.174	**6.894**	+.000 -.070	.165		.312		172,190	78,290	O/R
WST-750*	**7.500**	**7.180**	.209	**7.130**		.189		.375		178,130	84,820	O/R
WST-775*	**7.750**	**7.420**	.209	**7.368**		.189		.375		184,070	90,390	O/R
WST-800*	**8.000**	**7.660**	.209	**7.607**		.189		.375		190,000	96,130	O/R
WST-825*	**8.250**	**7.900**	.209	**7.845**		.189		.375		195,940	102,050	O/R
WST-850*	**8.500**	**8.140**	.209	**8.083**		.189		.375		201,880	108,150	O/R
WST-875*	**8.750**	**8.383**	.209	**8.321**		.189		.375		207,820	113,800	O/R
WST-900*	**9.000**	**8.620**	.209	**8.560**		.189		.375		213,750	120,870	O/R
WST-925*	**9.250**	**8.860**	.209	**8.798**		.189		.375		219,690	127,500	O/R
WST-950*	**9.500**	**9.100**	.209	**9.036**		.189		.375		225,630	134,300	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	$
WST-975*	**9.750**	**9.338**	.209	**9.273**	+.000 -.070	.189	+/-.005	.375	+.006 -.006	231,570	141,970	O/R
WST-1000*	**10.000**	**9.575**	.209	**9.508**		.189		.375		237,500	150,560	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



V-Rings

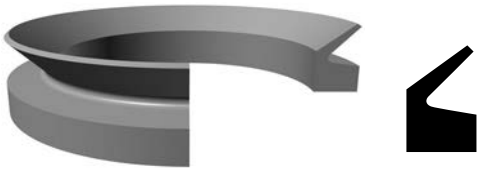
The V-ring is an axial face seal made of pure elastomer without reinforced fabric or metal. The V-ring is suitable for use as a single seal against dirt, dust, water, grease or oil. The sealing lip slides on a mating surface at right-angles to the shaft. The ring rotates with the shaft. The five different profile types A, E, L, S, and RM are available for the many possible applications. The E and RM types are designed mainly for use in heavy machinery. The RM V-ring has a groove on the outer periphery for accepting a clamping strip.

The sealing lip runs on a mating surface positioned vertically with respect to the shaft. The ring runs together with the shaft.

The V-ring provides a reliable seal when the shaft is both tilted and eccentric to its axis.

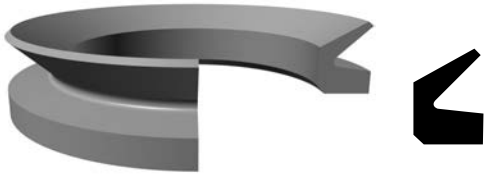
Standard materials are nitrile rubber (NBR) resistant to mineral oil-based media and fluorinated rubber for high temperatures and aggressive media. V-rings can also be made of other materials on request.

TYPE A



The most common style available in the widest range of sizes from 0.110" shaft to 79.530" nitrile and fluoroelastomer. Ideal for conveyor rollers and appliances.

TYPE L



Very narrow axial cross-section commonly used in pillow blocks to enhance or replace labyrinth seals. Available in nitrile and fluoroelastomer for shaft sizes from 4.134" shaft to 24.800", also available up to 79.724".

TYPE S



The original V-ring designed with a wide body and tapered heel to firmly hold the ring on the shaft. Available in sizes from 0.180" shaft to 8.270". Commonly use in agricultural and automotive applications.

TYPE E



The heavy duty large-diameter style commonly used in rolling mills as a dirt/water excluder seal. Available in both nitrile and fluoroelastomer for shaft sizes from 12.000" to 79.130".

TYPE RM



A heavy duty large-diameter style designed to operate in severe running conditions. The unique body can accommodate radial and axial support in high shaft speed applications. This V-ring can be trimmed to meet existing space requirements, (with a minimum fitted width of 1.670"). Available in sizes from 12.000" shaft to 118.000" in nitrile only. The RM is a made-to-order item.

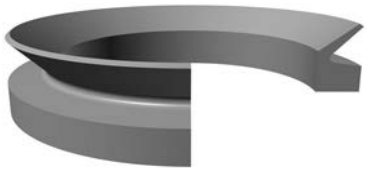
Application limits		
Pressure	0.3 bar	4.35 PSI
Temperature NBR FPM	 -40...+100°C -23...+150°C	 -40...+212°F -9.4...+302°F

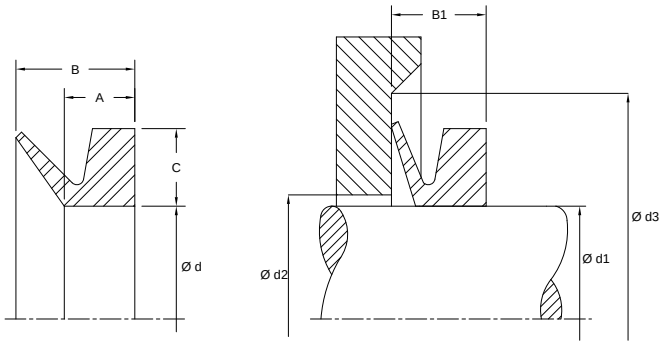
Surface finish		
Surface roughness	R_a	R_t
Sliding surface	≥2.5 µm	≥12 µm

No special machining is required since the V-ring adheres firmly to the shaft.

MISC.

V-Rings - TYPE A - NBR 65D





Standard Material
Nitrile 65D

Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0003A*	**2.70**	**3.50**	2.50	1.50	2.10	3.00	2.50 +/- 0.30	d1 + 1.00	d1 + 4.00	400030	2.26
V-0004A*	**3.50**	**4.50**	3.20	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	400040	2.26
V-0005A*	**4.50**	**5.50**	4.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	400050	2.37
V-0006A*	**5.50**	**6.50**	5.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	400060	2.68
V-0007A*	**6.50**	**8.00**	6.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	400070	2.71
V-0008A*	**8.00**	**9.50**	7.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	400080	2.75
V-0010A*	**9.50**	**11.50**	9.00	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	400100	2.76
V-0012A*	**11.50**	**12.50**	10.50	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	400120	2.77
V-0014A*	**13.50**	**15.50**	12.50	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	400140	2.81
V-0016A*	**15.50**	**17.00**	14.00	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	400160	2.82
V-0018A*	**17.50**	**19.00**	16.00	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	400180	3.04
V-0020A*	**19.00**	**21.00**	18.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400200	3.20
V-0022A*	**21.00**	**24.00**	20.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400220	3.44
V-0025A*	**24.00**	**27.00**	22.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400250	3.73
V-0028A*	**27.00**	**29.00**	25.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400280	4.03
V-0030A*	**29.00**	**31.00**	27.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400300	4.02
V-0032A*	**31.00**	**33.00**	29.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400320	4.23
V-0035A*	**33.00**	**36.00**	31.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400350	4.38
V-0038A*	**36.00**	**38.00**	34.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400380	4.57
V-0040A*	**38.00**	**43.00**	36.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400400	4.88
V-0045A	**43.00**	**48.00**	40.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400450	5.42
V-0050A*	**48.00**	**53.00**	45.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400500	5.90
V-0055A*	**53.00**	**58.00**	49.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400550	6.14
V-0060A	**58.00**	**63.00**	54.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400600	6.39
V-0065A	**63.00**	**68.00**	58.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400650	6.68
V-0070A*	**68.00**	**73.00**	63.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	400700	6.90
V-0075A	**73.00**	**78.00**	67.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	400750	7.36
V-0080A	**78.00**	**83.00**	72.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	400800	7.71
V-0085A	**83.00**	**88.00**	76.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	400850	7.94
V-0090A*	**88.00**	**93.00**	81.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	400900	8.16
V-0095A	**93.00**	**98.00**	85.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	400950	8.34
V-0100A*	**98.00**	**105.00**	90.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	401000	9.05
V-0110A	**105.00**	**115.00**	99.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401100	10.57
V-0120A	**115.00**	**125.00**	108.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401200	14.68
V-0130A	**125.00**	**135.00**	117.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401300	16.32

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V-Rings - TYPE A - NBR 65D

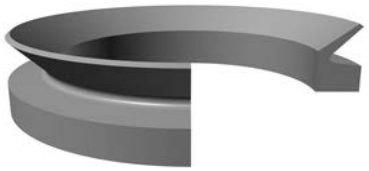
Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0140A	**135.00**	**145.00**	126.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401400	19.79
V-0150A	**145.00**	**155.00**	135.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401500	21.87
V-0160A	**155.00**	**165.00**	144.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401600	29.75
V-0170A	**165.00**	**175.00**	153.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401700	32.04
V-0180A*	**175.00**	**185.00**	162.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401800	35.18
V-0190A*	**185.00**	**195.00**	171.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401900	37.75
V-0199A*	**195.00**	**210.00**	180.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401990	42.99
V-0200A*	**190.00**	**210.00**	180.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	402000	66.28
V-0220A*	**210.00**	**235.00**	198.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	402200	67.65
V-0250A*	**235.00**	**265.00**	225.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	402500	78.45
V-0275A*	**265.00**	**290.00**	247.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	402750	100.80
V-0300A*	**290.00**	**310.00**	270.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	403000	109.82
V-0325A*	**310.00**	**335.00**	292.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	403250	128.39
V-0350A*	**335.00**	**365.00**	315.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	403500	141.31
V-0375A*	**365.00**	**390.00**	337.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	403750	160.94
V-0400A*	**390.00**	**430.00**	360.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	404000	178.43
V-0450A	**430.00**	**480.00**	405.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	404500	197.33
V-0500A*	**480.00**	**530.00**	450.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	405000	253.54
V-0550A*	**530.00**	**580.00**	495.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	405500	292.82
V-0600A*	**580.00**	**630.00**	540.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	406000	543.61
V-0650A	**630.00**	**665.00**	600.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	406500	831.86
V-0700A*	**665.00**	**705.00**	630.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	407000	876.13
V-0725A*	**705.00**	**745.00**	670.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	407250	1043.22
V-0750A*	**745.00**	**785.00**	705.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	407500	1068.73
V-0800A*	**785.00**	**830.00**	745.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	408000	1142.95
V-0850A*	**830.00**	**875.00**	785.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	408500	1199.71
V-0900A*	**875.00**	**920.00**	825.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	409000	1277.78
V-0950A*	**920.00**	**965.00**	865.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	409500	1323.72
V-1000A*	**965.00**	**1015.00**	910.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	410000	1398.05
V-1050A*	**1015.00**	**1065.00**	955.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	410500	1448.28
V-1100A*	**1065.00**	**1115.00**	1000.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	411000	1532.13
V-1150A*	**1115.00**	**1165.00**	1045.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	411500	1580.12
V-1200A*	**1165.00**	**1215.00**	1090.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	412000	1632.82
V-1250A*	**1215.00**	**1270.00**	1135.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	412500	1687.46
V-1300A*	**1270.00**	**1320.00**	1180.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	413000	1732.45
V-1350A*	**1320.00**	**1370.00**	1225.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	413500	1848.18
V-1400A*	**1370.00**	**1420.00**	1270.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	414000	1918.60
V-1450A*	**1420.00**	**1470.00**	1315.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	414500	2096.15
V-1500A*	**1470.00**	**1520.00**	1360.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	415000	2162.93
V-1550A*	**1520.00**	**1570.00**	1405.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	415500	2229.08
V-1600A*	**1570.00**	**1620.00**	1450.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	416000	2280.46
V-1650A*	**1620.00**	**1670.00**	1495.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	416500	2368.26
V-1700A*	**1670.00**	**1720.00**	1540.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	417000	2381.29
V-1750A*	**1720.00**	**1770.00**	1585.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	417500	2431.36
V-1800A*	**1770.00**	**1820.00**	1630.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	418000	2470.15

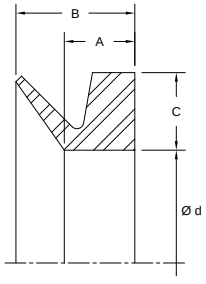
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

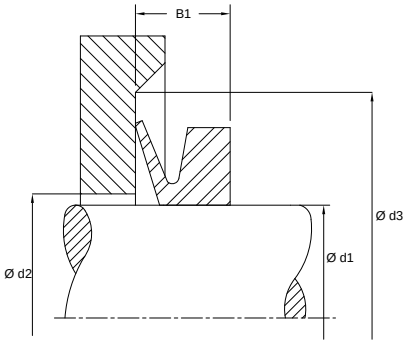
V-Rings - TYPE A - NBR 65D

Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-1850A*	**1820.00**	**1870.00**	1675.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	418500	2530.72
V-1900A*	**1870.00**	**1920.00**	1720.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	419000	2590.96
V-1950A*	**1920.00**	**1970.00**	1765.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	419500	2649.49
V-2000A*	**1970.00**	**2020.00**	1810.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	419990	2764.15

V-Rings - TYPE A - FPM 63D







Standard Material
FPM 63D

Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	$
V-0003A/V*	**2.70**	**3.50**	2.50	1.50	2.10	3.00	2.50 +/- 0.30	d1 + 1.00	d1 + 4.00	6.22
V-0004A/V*	**3.50**	**4.50**	3.20	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	6.22
V-0005A/V*	**4.50**	**5.50**	4.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	6.22
V-0006A/V*	**5.50**	**6.50**	5.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	6.22
V-0007A/V*	**6.50**	**8.00**	6.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	6.22
V-0008A/V*	**8.00**	**9.50**	7.00	2.00	2.40	3.70	3.00 +/- 0.40	d1 + 1.00	d1 + 6.00	6.22
V-0010A/V*	**9.50**	**11.50**	9.00	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	6.22
V-0012A/V*	**11.50**	**12.50**	10.50	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	6.22
V-0014A/V*	**13.50**	**15.50**	12.50	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	10.73
V-0016A/V*	**15.50**	**17.00**	14.00	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	11.14
V-0018A/V*	**17.50**	**19.00**	16.00	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	12.58
V-0020A/V*	**19.00**	**21.00**	18.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	13.44
V-0022A/V*	**21.00**	**24.00**	20.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	14.51
V-0025A/V*	**24.00**	**27.00**	22.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	14.87
V-0028A/V*	**27.00**	**29.00**	25.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	15.14
V-0030A/V*	**29.00**	**31.00**	27.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	16.35
V-0032A/V*	**31.00**	**33.00**	29.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	17.20
V-0035A/V*	**33.00**	**36.00**	31.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	19.17
V-0038A/V*	**36.00**	**38.00**	34.00	4.00	4.70	7.50	6.00 +/- 0.80	d1 + 2.00	d1 + 12.00	19.42

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V-Rings - TYPE A - FPM 63D

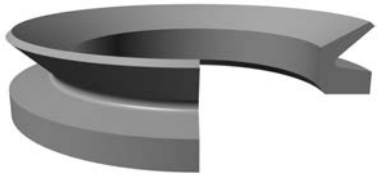
Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	$
V-0040A/V*	**38.00**	**43.00**	36.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	23.47
V-0045A/V*	**43.00**	**48.00**	40.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	26.30
V-0050A/V*	**48.00**	**53.00**	45.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	28.69
V-0055A/V*	**53.00**	**58.00**	49.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	34.11
V-0060A/V*	**58.00**	**63.00**	54.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	38.87
V-0065A/V*	**63.00**	**68.00**	58.00	5.00	5.50	9.00	7.00 +/- 1.00	d1 + 2.00	d1 + 15.00	40.85
V-0070A/V*	**68.00**	**73.00**	63.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	46.17
V-0075A/V*	**73.00**	**78.00**	67.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	49.61
V-0080A/V*	**78.00**	**83.00**	72.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	54.31
V-0085A/V*	**83.00**	**88.00**	76.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	63.67
V-0090A/V*	**88.00**	**93.00**	81.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	65.97
V-0095A/V*	**93.00**	**98.00**	85.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	79.84
V-0100A/V*	**98.00**	**105.00**	90.00	6.00	6.80	11.00	9.00 +/- 1.20	d1 + 3.00	d1 + 18.00	82.24
V-0110A/V*	**105.00**	**115.00**	99.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	133.33
V-0120A/V*	**115.00**	**125.00**	108.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	151.17
V-0130A/V*	**125.00**	**135.00**	117.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	162.72
V-0140A/V*	**135.00**	**145.00**	126.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	172.04
V-0150A/V*	**145.00**	**155.00**	135.00	7.00	7.90	12.80	10.50 +/- 1.50	d1 + 4.00	d1 + 21.00	179.99
V-0160A/V*	**155.00**	**165.00**	144.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	220.91
V-0170A/V*	**165.00**	**175.00**	153.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	237.22
V-0180A/V*	**175.00**	**185.00**	162.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	245.78
V-0190A/V*	**185.00**	**195.00**	171.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	258.97
V-0199A/V*	**195.00**	**210.00**	180.00	8.00	9.00	14.50	12.00 +/- 1.80	d11 + 4.00	d1 + 24.00	275.19
V-0200A/V*	**190.00**	**210.00**	180.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	437.07
V-0220A/V*	**210.00**	**235.00**	198.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	465.59
V-0250A/V*	**235.00**	**265.00**	225.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	547.22
V-0275A/V*	**265.00**	**290.00**	247.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	708.24
V-0300A/V*	**290.00**	**310.00**	270.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	751.81
V-0325A/V*	**310.00**	**335.00**	292.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	848.21
V-0350A/V*	**335.00**	**365.00**	315.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	925.64
V-0375A/V*	**365.00**	**390.00**	337.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	976.58
V-0400A/V*	**390.00**	**430.00**	360.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	1121.37
V-0450A/V*	**430.00**	**480.00**	405.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	1254.06
V-0500A/V*	**480.00**	**530.00**	450.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	1295.89
V-0550A/V*	**530.00**	**580.00**	495.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	1374.96
V-0600A/V*	**580.00**	**630.00**	540.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	1544.31
V-0650A/V*	**630.00**	**665.00**	600.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	2271.78
V-0700A/V*	**665.00**	**705.00**	630.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	2513.05
V-0725A/V*	**705.00**	**745.00**	670.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	2760.29
V-0750A/V*	**745.00**	**785.00**	705.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	2779.07
V-0800A/V*	**785.00**	**830.00**	745.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	2996.28
V-0850A/V*	**830.00**	**875.00**	785.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	3278.46
V-0900A/V*	**875.00**	**920.00**	825.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	3523.29
V-0950A/V*	**920.00**	**965.00**	865.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	3703.05
V-1000A/V*	**965.00**	**1015.00**	910.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	3828.88

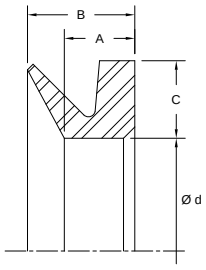
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

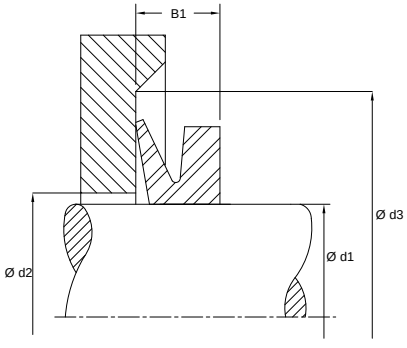
V-Rings - TYPE A - FPM 63D

Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	$
V-1050A/V*	**1015.00**	**1065.00**	955.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	3963.70
V-1100A/V*	**1065.00**	**1115.00**	1000.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	4098.51
V-1150A/V*	**1115.00**	**1165.00**	1045.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	4224.35
V-1200A/V*	**1165.00**	**1215.00**	1090.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	4359.17
V-1250A/V*	**1215.00**	**1270.00**	1135.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	4476.01
V-1300A/V*	**1270.00**	**1320.00**	1180.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	4628.82
V-1350A/V*	**1320.00**	**1370.00**	1225.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	4754.64
V-1400A/V*	**1370.00**	**1420.00**	1270.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	4889.47
V-1450A/V*	**1420.00**	**1470.00**	1315.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5024.29
V-1500A/V*	**1470.00**	**1520.00**	1360.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5150.12
V-1550A/V*	**1520.00**	**1570.00**	1405.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5284.93
V-1600A/V*	**1570.00**	**1620.00**	1450.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5419.76
V-1650A/V*	**1620.00**	**1670.00**	1495.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5545.58
V-1700A/V*	**1670.00**	**1720.00**	1540.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5680.40
V-1750A/V*	**1720.00**	**1770.00**	1585.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5815.22
V-1800A/V*	**1770.00**	**1820.00**	1630.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	5941.06
V-1850A/V*	**1820.00**	**1870.00**	1675.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	6075.86
V-1900A/V*	**1870.00**	**1920.00**	1720.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	6210.69
V-1950A/V*	**1920.00**	**1970.00**	1765.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	6345.50
V-2000A/V*	**1970.00**	**2020.00**	1810.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 + 10.00	d1 + 45.00	6471.33

V-Rings - TYPE L - NBR 65D







Standard Material
NBR 65D

Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0110L*	**105.00**	**115.00**	99.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		18.52
V-0120L	**115.00**	**125.00**	108.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		18.89
V-0130L*	**125.00**	**135.00**	117.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		22.47
V-0140L*	**135.00**	**145.00**	126.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	401402	23.39

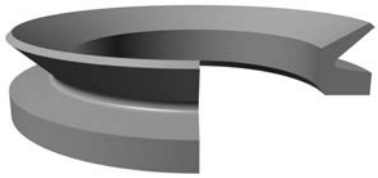
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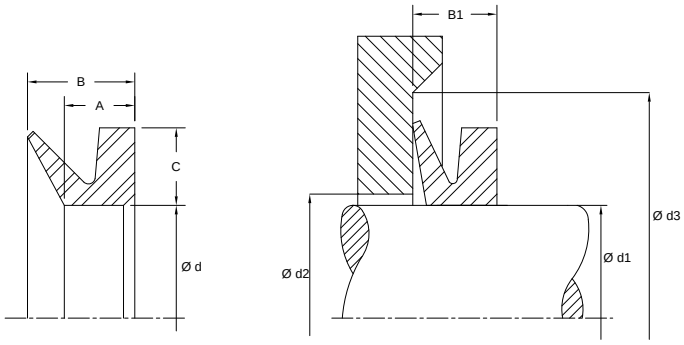
V-Rings - TYPE L - NBR 65D

Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0150L*	**145.00**	**155.00**	135.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	401502	25.93
V-0160L*	**155.00**	**165.00**	144.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	401602	38.11
V-0170L*	**165.00**	**175.00**	153.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	401702	40.40
V-0180L	**175.00**	**185.00**	162.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	401802	43.94
V-0190L*	**185.00**	**195.00**	171.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	401902	67.60
V-0200L	**195.00**	**210.00**	182.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	402002	77.53
V-0220L	**210.00**	**233.00**	198.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	402202	79.24
V-0250L*	**233.00**	**260.00**	225.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	402502	92.44
V-0275L*	**260.00**	**285.00**	247.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	402752	120.13
V-0300L*	**285.00**	**310.00**	270.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	403002	130.12
V-0325L*	**310.00**	**335.00**	292.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	403252	152.27
V-0350L*	**335.00**	**365.00**	315.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	403502	167.55
V-0375L*	**365.00**	**385.00**	337.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	403752	190.83
V-0400L*	**385.00**	**410.00**	360.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	404002	211.68
V-0425L*	**410.00**	**440.00**	382.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	404252	220.85
V-0450L*	**440.00**	**475.00**	405.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	404502	235.22
V-0500L*	**475.00**	**510.00**	450.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	405002	428.70
V-0550L*	**540.00**	**575.00**	495.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	405502	454.21
V-0600L*	**575.00**	**625.00**	540.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	406002	479.31
V-0650L*	**625.00**	**675.00**	600.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		759.62
V-0700L*	**675.00**	**710.00**	630.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		808.34
V-0750L*	**740.00**	**775.00**	705.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	407502	975.95
V-0800L*	**775.00**	**825.00**	745.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		1075.05
V-0850L*	**825.00**	**875.00**	785.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		1135.86
V-0900L*	**875.00**	**925.00**	825.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	409002	1176.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V-Rings - TYPE L - FPM 63D





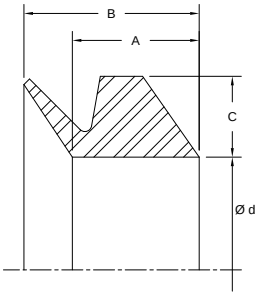
Standard Material
FPM 63D

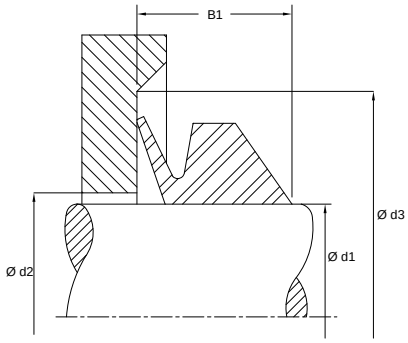
Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	$
V-0110L/V*	**105.00**	**115.00**	99.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	187.67
V-0120L/V*	**115.00**	**125.00**	108.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	202.49
V-0130L/V*	**125.00**	**135.00**	117.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	215.22
V-0140L/V*	**135.00**	**145.00**	126.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	223.97
V-0150L/V*	**145.00**	**155.00**	135.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	233.68
V-0160L/V*	**155.00**	**165.00**	144.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	287.74
V-0170L/V*	**165.00**	**175.00**	153.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	305.43
V-0180L/V*	**175.00**	**185.00**	162.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	342.38
V-0190L/V*	**185.00**	**195.00**	171.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	360.83
V-0200L/V*	**195.00**	**210.00**	182.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	581.18
V-0220L/V*	**210.00**	**233.00**	198.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	597.70
V-0250L/V*	**233.00**	**260.00**	225.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	633.02
V-0275L/V*	**260.00**	**285.00**	247.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	687.22
V-0300L/V*	**285.00**	**310.00**	270.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	740.63
V-0325L/V*	**310.00**	**335.00**	292.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	774.75
V-0350L/V*	**335.00**	**365.00**	315.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	808.34
V-0375L/V*	**365.00**	**385.00**	337.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	879.11
V-0400L/V*	**385.00**	**410.00**	360.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	944.10
V-0425L/V*	**410.00**	**440.00**	382.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	1153.90
V-0450L/V*	**440.00**	**475.00**	405.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	1361.57
V-0500L/V*	**475.00**	**510.00**	450.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	1699.01
V-0550L/V*	**540.00**	**575.00**	495.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	1777.00
V-0600L/V*	**575.00**	**625.00**	540.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	1858.29
V-0650L/V*	**625.00**	**675.00**	600.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	2676.57
V-0700L/V*	**675.00**	**710.00**	630.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	3021.35
V-0750L/V*	**740.00**	**775.00**	705.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	3338.02
V-0800L/V*	**775.00**	**825.00**	745.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	3566.21
V-0850L/V*	**825.00**	**875.00**	785.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	3893.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V-Rings - TYPE S - NBR 65D







Standard Material
Nitrile 65D

Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0005S*	**4.50**	**5.50**	4.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400051	2.69
V-0006S*	**5.50**	**6.50**	5.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400061	3.05
V-0007S*	**6.50**	**8.00**	6.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400071	3.07
V-0008S*	**8.00**	**9.50**	7.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400081	3.12
V-0010S*	**9.50**	**11.50**	9.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400101	3.13
V-0012S*	**11.50**	**13.50**	10.50	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400121	3.15
V-0014S*	**13.50**	**15.50**	12.50	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400141	3.19
V-0016S*	**15.50**	**17.00**	14.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400161	3.20
V-0018S*	**17.50**	**19.00**	16.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400181	3.45
V-0020S	**19.00**	**21.00**	18.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400201	3.63
V-0022S*	**21.00**	**24.00**	20.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400221	3.90
V-0025S*	**24.00**	**27.00**	22.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400251	4.23
V-0028S*	**27.00**	**29.00**	25.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400281	4.58
V-0030S*	**29.00**	**31.00**	27.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400301	4.56
V-0032S*	**31.00**	**33.00**	29.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400321	4.80
V-0035S*	**33.00**	**36.00**	31.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400351	4.98
V-0038S*	**36.00**	**38.00**	34.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400381	5.19
V-0040S*	**38.00**	**43.00**	36.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400401	5.53
V-0045S*	**43.00**	**48.00**	40.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400451	6.15
V-0050S*	**48.00**	**53.00**	45.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400501	6.69
V-0055S*	**53.00**	**58.00**	49.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400551	6.96
V-0060S*	**58.00**	**63.00**	54.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400601	7.25
V-0065S*	**63.00**	**68.00**	58.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400651	7.58
V-0070S*	**68.00**	**73.00**	63.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400701	7.84
V-0075S*	**73.00**	**78.00**	67.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400751	8.35
V-0080S*	**78.00**	**83.00**	72.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400801	8.75
V-0085S*	**83.00**	**88.00**	76.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400851	9.01
V-0090S*	**88.00**	**93.00**	81.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400901	9.27
V-0095S*	**93.00**	**98.00**	85.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400951	9.47
V-0100S*	**98.00**	**105.00**	90.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	401001	10.27
V-0110S*	**105.00**	**115.00**	99.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401101	12.00
V-0120S*	**115.00**	**125.00**	108.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401201	14.64
V-0130S*	**125.00**	**135.00**	117.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401301	17.19
V-0140S	**135.00**	**145.00**	126.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401401	21.41
V-0150S*	**145.00**	**155.00**	135.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401501	23.52

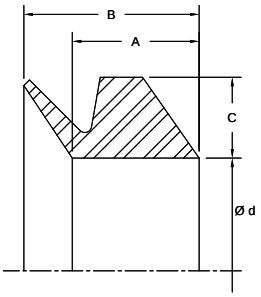
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

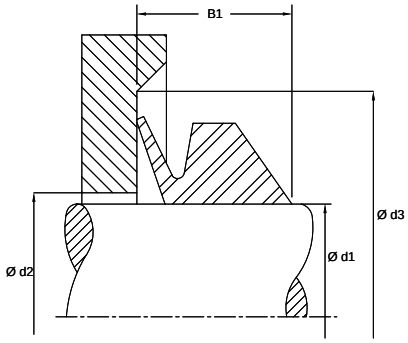
V-Rings - TYPE S - NBR 65D

Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0160S*	**155.00**	**165.00**	144.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401601	33.76
V-0170S*	**165.00**	**175.00**	153.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401701	36.36
V-0180S*	**175.00**	**185.00**	162.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401801	39.93
V-0190S*	**185.00**	**195.00**	171.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401901	42.84
V-0199S*	**195.00**	**210.00**	180.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401991	48.79

V-Rings - TYPE S - FPM 63D







Standard Material
FPM 63D

Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0005S/V*	**4.50**	**5.50**	4.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400051	O/R
V-0006S/V*	**5.50**	**6.50**	5.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400061	O/R
V-0007S/V*	**6.50**	**8.00**	6.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400071	O/R
V-0008S/V*	**8.00**	**9.50**	7.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400081	O/R
V-0010S/V*	**9.50**	**11.50**	9.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400101	O/R
V-0012S/V*	**11.50**	**13.50**	10.50	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400121	O/R
V-0014S/V*	**13.50**	**15.50**	12.50	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400141	O/R
V-0016S/V*	**15.50**	**17.00**	14.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400161	O/R
V-0018S/V*	**17.50**	**19.00**	16.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	d1 + 9.00	400181	O/R
V-0020S/V*	**19.00**	**21.00**	18.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400201	O/R
V-0022S/V*	**21.00**	**24.00**	20.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400221	O/R
V-0025S/V	**24.00**	**27.00**	22.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400251	O/R
V-0028S/V*	**27.00**	**29.00**	25.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400281	O/R
V-0030S/V*	**29.00**	**31.00**	27.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400301	O/R
V-0032S/V*	**31.00**	**33.00**	29.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400321	O/R
V-0035S/V*	**33.00**	**36.00**	31.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400351	O/R
V-0038S/V*	**36.00**	**38.00**	34.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	d1 + 12.00	400381	O/R
V-0040S/V*	**38.00**	**43.00**	36.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400401	O/R
V-0045S/V*	**43.00**	**48.00**	40.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400451	O/R

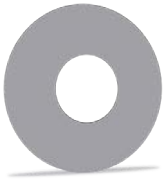
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V-Rings - TYPE S - FPM 63D

Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0050S/V*	**48.00**	**53.00**	45.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400501	O/R
V-0055S/V*	**53.00**	**58.00**	49.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400551	O/R
V-0060S/V*	**58.00**	**63.00**	54.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400601	O/R
V-0065S/V*	**63.00**	**68.00**	58.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	d1 + 15.00	400651	O/R
V-0070S/V*	**68.00**	**73.00**	63.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400701	O/R
V-0075S/V*	**73.00**	**78.00**	67.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400751	O/R
V-0080S/V*	**78.00**	**83.00**	72.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400801	O/R
V-0085S/V*	**83.00**	**88.00**	76.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400851	O/R
V-0090S/V*	**88.00**	**93.00**	81.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400901	O/R
V-0095S/V*	**93.00**	**98.00**	85.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	400951	O/R
V-0100S/V*	**98.00**	**105.00**	90.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	d1 + 18.00	401001	O/R
V-0110S/V*	**105.00**	**115.00**	99.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401101	O/R
V-0120S/V*	**115.00**	**125.00**	108.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401201	O/R
V-0130S/V*	**125.00**	**135.00**	117.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401301	O/R
V-0140S/V*	**135.00**	**145.00**	126.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401401	O/R
V-0150S/V*	**145.00**	**155.00**	135.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	d1 + 21.00	401501	O/R
V-0160S/V*	**155.00**	**165.00**	144.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401601	O/R
V-0170S/V*	**165.00**	**175.00**	153.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401701	O/R
V-0180S/V	**175.00**	**185.00**	162.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401801	O/R
V-0190S/V*	**185.00**	**195.00**	171.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401901	O/R
V-0199S/V*	**195.00**	**210.00**	180.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401991	O/R

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Hardened Steel Shims - Inch



Standard Material
Hardened Steel

Manufactured from high-strength hardened steel, our shims are designed to compensate for gaps caused by wear between two mechanical components, particularly between a pin and a bushing.

These spacing elements help restore precise alignment, reinforce the assembly structure, and ensure optimal component realignment. By eliminating excessive play, they contribute to extending the service life of the mechanical system and maintaining equipment performance.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
MHSS036070005*	36.00	70.00	0.50	11.90
MHSS036070010*	36.00	70.00	1.00	12.00
MHSS036070020*	36.00	70.00	2.00	15.00
MHSS040075005*	40.00	75.00	0.50	14.30
MHSS040075010*	40.00	75.00	1.00	13.30
MHSS040075020*	40.00	75.00	2.00	17.50
MHSS041082010*	41.00	82.00	1.00	12.50
MHSS041090005*	41.00	90.00	0.50	16.50
MHSS041090010*	41.00	90.00	1.00	14.90
MHSS041090020*	41.00	90.00	2.00	18.50
MHSS041090040*	41.00	90.00	4.00	33.00
MHSS045085040*	45.00	85.00	4.00	45.00
MHSS046090005*	46.00	90.00	0.50	18.70
MHSS046096010*	46.00	96.00	1.00	15.00
MHSS046096020*	46.00	96.00	2.00	22.70
MHSS046096030*	46.00	96.00	3.00	34.00
MHSS046096050*	46.00	96.00	5.00	56.00
MHSS051090005*	51.00	90.00	0.50	17.00
MHSS051090010*	51.00	90.00	1.00	22.50
MHSS051090020*	51.00	90.00	2.00	22.90
MHSS051090030*	51.00	90.00	3.00	28.00
MHSS051090050*	51.00	90.00	5.00	41.50
MHSS051108010*	51.00	108.00	1.00	23.00
MHSS051108020*	51.00	108.00	2.00	31.50
MHSS051108030*	51.00	108.00	3.00	32.00
MHSS056112005*	56.00	112.00	0.50	16.50
MHSS056112010*	56.00	112.00	1.00	24.00
MHSS056112020*	56.00	112.00	2.00	32.00
MHSS056112030*	56.00	112.00	3.00	37.00

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
MHSS061112005*	61.00	112.00	0.50	19.70
MHSS061112010*	61.00	112.00	1.00	24.50
MHSS061112020*	61.00	112.00	2.00	35.00
MHSS061112030*	61.00	112.00	3.00	38.50
MHSS061112050*	61.00	112.00	5.00	61.00
MHSS066112005*	66.00	112.00	0.50	15.90
MHSS066112010*	66.00	112.00	1.00	27.00
MHSS066112020*	66.00	112.00	2.00	37.70
MHSS066112030*	66.00	112.00	3.00	42.65
MHSS066125010*	66.00	125.00	1.00	19.00
MHSS071130005*	71.00	130.00	0.50	22.50
MHSS071130010*	71.00	130.00	1.00	27.50
MHSS071130020*	71.00	130.00	2.00	49.00
MHSS071130030*	71.00	130.00	3.00	49.50
MHSS071130040*	71.00	130.00	4.00	55.50
MHSS071130050*	71.00	130.00	5.00	77.00
MHSS076130010*	76.00	130.00	1.00	24.00
MHSS076130020*	76.00	130.00	2.00	28.00
MHSS081130005*	81.00	130.00	0.50	23.00
MHSS082149010*	82.00	149.00	1.00	28.50
MHSS082149015*	82.00	149.00	1.50	29.00
MHSS082149020*	82.00	149.00	2.00	56.45
MHSS082149030*	82.00	149.00	3.00	80.83
MHSS082149040*	82.00	149.00	4.00	94.00
MHSS086150010*	86.00	150.00	1.00	28.50
MHSS086150020*	86.00	150.00	2.00	59.50
MHSS086150030*	86.00	150.00	3.00	72.50
MHSS086150040*	86.00	150.00	4.00	94.00
MHSS091150050*	91.00	150.00	5.00	98.90

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Hardened Steel Shims series - STEEL

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
MHSS091160005*	91.00	160.00	0.50	29.90
MHSS091170010*	91.00	170.00	1.00	34.00
MHSS091170020*	91.00	170.00	2.00	60.50
MHSS091170030*	91.00	170.00	3.00	76.00
MHSS091183040*	91.00	183.00	4.00	115.00
MHSS096200005*	96.00	200.00	0.50	40.90
MHSS096200010*	96.00	200.00	1.00	44.20
MHSS096200015*	96.00	200.00	1.50	56.50
MHSS096200020*	96.00	200.00	2.00	69.70
MHSS096200025*	96.00	200.00	2.50	82.30

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
MHSS096200030*	96.00	200.00	3.00	96.40
MHSS101190010*	101.00	190.00	1.00	40.50
MHSS101190020*	101.00	190.00	2.00	66.00
MHSS101190030*	101.00	190.00	3.00	74.50
MHSS102160050*	102.00	160.00	5.00	129.50
MHSS111160050*	111.00	160.00	5.00	129.50
MHSS111190005*	111.00	190.00	0.50	40.00
MHSS111190010*	111.00	190.00	1.00	37.50
MHSS111190020*	111.00	190.00	2.00	63.50

Hardened Steel Washer

Ref.Number	A min.	A max.	B min.	B max.	C min.	C max.	$
HSW-F436/0.250	0.281	0.313	0.593	0.657	0.051	0.080	0.38
HSW-F436/0.312	0.344	0.376	0.656	0.720	0.051	0.080	0.41
HSW-F436/0.375	0.406	0.438	0.781	0.845	0.051	0.080	0.45
HSW-F436/0.437	0.469	0.501	0.890	0.954	0.051	0.080	0.49
HSW-F436/0.500	0.531	0.563	1.031	1.095	0.970	0.177	0.74
HSW-F437/0.562	0.625	0.657	1.156	1.220	0.110	0.177	0.88
HSW-F437/0.625	0.688	0.720	1.281	1.345	0.122	0.177	0.97
HSW-F436/0.750	0.813	0.845	1.436	1.500	0.122	0.177	1.02
HSW-F436/0.875	0.938	0.970	1.718	1.782	0.136	0.177	1.77
HSW-F436/1.000	1.063	1.126	1.937	2.063	0.136	0.177	2.10

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Nylon Plug

Ref.Number	Diameter	Length	$
NP-125-125*	0.125	0.125	1.22
NP-125-156*	0.125	0.156	1.11
NP-125-750*	0.125	0.750	1.14
NP-125-875*	0.125	0.875	1.24
NP-187-109*	0.187	0.109	1.36
NP-187-187	0.187	0.187	1.59
NP-187-250	0.187	0.250	1.78
NP-250-070*	0.250	0.070	1.99
NP-250-125	0.250	0.125	1.99

Ref.Number	Diameter	Length	$
NP-250-187*	0.250	0.187	2.01
NP-250-250	0.250	0.250	2.24
NP-312-125	0.312	0.125	2.64
NP-312-250*	0.312	0.250	3.01
NP-312-312	0.312	0.312	3.14
NP-375-250	0.375	0.250	3.14
NP-500-875	0.500	0.875	8.64
NP-625-500*	0.625	0.500	9.01

Cotter Pin

Ref.Number	Description	$
PIC12100*	**01.000" - Cotter Pin**	0.43
PIC12150*	**01.500" - Cotter Pin**	0.51
PIC12175Z*	**01.750" - Cotter Pin**	O/R
PIC12200*	**02.000" - Cotter Pin**	0.60
PIC12250*	**02.500" - Cotter Pin**	0.80
PIC18150*	**01.500" - Cotter Pin**	1.09
PIC18175*	**01.750" - Cotter Pin**	1.26

Ref.Number	Description	$
PIC18200*	**02.000" - Cotter Pin**	1.20
PIC18300*	**03.000" - Cotter Pin**	1.73
PIC25300*	**03.000" - Cotter Pin**	2.93
PIC25400*	**04.000" - Cotter Pin**	4.68
PIC31300*	**03.000" - Cotter Pin**	4.82
PIC31600*	**06.000" - Cotter Pin**	12.73

Roll Pin Fastener

Ref.Number	Description	$
PIR12075*	**00.750" - ROLL PIN FASTENER**	0.73
PIR15150*	**01.500" - ROLL PIN FASTENER**	1.60
PIR18100*	**01.000" - ROLL PIN FASTENER**	1.84
PIR18150*	**01.500" - ROLL PIN FASTENER**	2.09
PIR18175*	**01.750" - ROLL PIN FASTENER**	2.40
PIR18200*	**02.000" - ROLL PIN FASTENER**	2.72
PIR18250*	**02.500" - ROLL PIN FASTENER**	3.26
PIR21100*	**01.000" - ROLL PIN FASTENER**	3.32

Ref.Number	Description	$
PIR25150*	**01.500" - ROLL PIN FASTENER**	3.83
PIR25200*	**02.000" - ROLL PIN FASTENER**	3.98
PIR25225*	**02.250" - ROLL PIN FASTENER**	5.25
PIR25250*	**02.500" - ROLL PIN FASTENER**	5.25
PIR25275*	**02.750" - ROLL PIN FASTENER**	5.18
PIR31300*	**03.000" - ROLL PIN FASTENER**	9.01
PIR31350*	**03.500" - ROLL PIN FASTENER**	6.29
PIR31400	**04.000" - ROLL PIN FASTENER**	14.00

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Steel Chrome Balls

Ref.Number	D	Material	$
SCB-0.375*	0.375	**GRADE 25 STEEL CHROME**	1.15
SCB-0.500	0.500	**GRADE 25 STEEL CHROME**	1.25

Ref.Number	D	Material	$
SCB-0.625*	0.625	**GRADE 25 STEEL CHROME**	1.49
SCB-0.750	0.750	**GRADE 25 STEEL CHROME**	5.22

Hydraulic Wave Spring

Ref. Number	Shaft Diameter	Bore Diameter	Load (lb)	Work Height	Free Height	Number of Waves	Thickness	Radial Wall	Spring Rate	$
SSR-0125*	**1.250**	**0.960**	30	0.078	0.150	4	0.018	0.143	484	7.28
SSR-0137*	**1.375**	**1.090**	30	0.078	0.150	4	0.018	0.143	484	7.74
SSR-0150*	**1.500**	**1.170**	30	0.078	0.170	4	0.018	0.143	484	7.74
SSR-0175*	**1.750**	**1.440**	30	0.078	0.140	4	0.018	0.143	484	7.74
SSR-0187	**1.875**	**1.560**	32	0.078	0.150	4	0.018	0.143	444	7.74
SSR-0200*	**2.000**	**1.680**	34	0.093	0.140	4	0.024	0.150	723	8.42
SSR-0212*	**2.125**	**1.800**	36	0.093	0.150	4	0.024	0.150	632	8.91
SSR-0225*	**2.250**	**1.930**	38	0.093	0.170	4	0.024	0.150	494	8.91
SSR-0237*	**2.375**	**1.990**	40	0.093	0.160	4	0.024	0.178	597	9.17
SSR-0250*	**2.500**	**2.120**	42	0.093	0.170	4	0.024	0.178	545	9.66
SSR-0262*	**2.625**	**2.240**	44	0.093	0.190	4	0.024	0.178	454	9.66
SSR-0275*	**2.750**	**2.340**	46	0.109	0.170	4	0.030	0.188	754	10.63
SSR-0287*	**2.875**	**2.470**	48	0.109	0.180	4	0.030	0.188	676	11.38
SSR-0300*	**3.000**	**2.590**	50	0.109	0.190	4	0.030	0.188	617	11.38
SSR-0312*	**3.125**	**2.710**	52	0.109	0.210	4	0.030	0.188	515	11.29
SSR-0325*	**3.250**	**2.750**	54	0.109	0.200	4	0.030	0.233	593	12.23
SSR-0337*	**3.375**	**2.840**	56	0.109	0.220	4	0.030	0.233	505	12.23
SSR-0350*	**3.500**	**3.000**	58	0.109	0.230	4	0.030	0.233	479	22.78
SSR-0362*	**3.625**	**3.120**	60	0.109	0.240	4	0.030	0.233	458	23.22
SSR-0375*	**3.750**	**3.250**	62	0.109	0.260	4	0.030	0.233	411	14.34
SSR-0387*	**3.875**	**3.370**	64	0.109	0.300	4	0.030	0.233	335	14.34
SSR-0400*	**4.000**	**3.500**	66	0.109	0.190	5	0.030	0.233	815	14.34
SSR-0412*	**4.125**	**3.620**	67	0.109	0.200	5	0.030	0.233	736	45.22
SSR-0425*	**4.250**	**3.740**	69	0.109	0.210	5	0.030	0.233	683	45.22
SSR-0437*	**4.375**	**3.860**	70	0.109	0.210	5	0.030	0.233	693	45.22
SSR-0450*	**4.500**	**3.990**	72	0.109	0.230	5	0.030	0.233	595	17.64
SSR-0462*	**4.625**	**4.110**	73	0.125	0.270	5	0.030	0.233	503	17.64
SSR-0475*	**4.750**	**4.240**	75	0.125	0.310	5	0.030	0.233	405	54.65
SSR-0487*	**4.875**	**4.370**	76	0.125	0.290	5	0.030	0.233	461	54.65
SSR-0500*	**5.000**	**4.490**	78	0.125	0.310	5	0.030	0.233	422	54.65
SSR-0512*	**5.125**	**4.610**	80	0.125	0.340	5	0.030	0.233	372	63.30
SSR-0525*	**5.250**	**4.740**	82	0.125	0.370	5	0.030	0.233	335	O/R
SSR-0537*	**5.375**	**4.860**	84	0.125	0.380	5	0.030	0.233	329	O/R

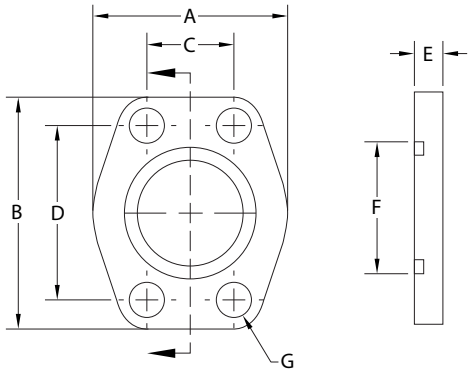
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Ref. Number	Shaft Diameter	Bore Diameter	Load (lb)	Work Height	Free Height	Number of Waves	Thickness	Radial Wall	Spring Rate	$
SSR-0550*	**5.500**	**4.990**	86	0.125	0.250	6	0.030	0.233	688	63.30
SSR-0562*	**5.625**	**5.110**	88	0.125	0.270	6	0.030	0.233	607	O/R
SSR-0575*	**5.750**	**5.240**	90	0.125	0.280	6	0.030	0.233	581	O/R
SSR-0587*	**5.875**	**5.360**	92	0.125	0.300	6	0.030	0.233	526	O/R
SSR-0600*	**6.000**	**5.490**	94	0.125	0.300	6	0.030	0.233	537	O/R
SSR-0612*	**6.125**	**5.610**	96	0.125	0.310	6	0.030	0.233	519	O/R
SSR-0625*	**6.250**	**5.730**	98	0.125	0.340	6	0.030	0.233	456	O/R
SSR-0637*	**6.375**	**5.860**	100	0.125	0.350	6	0.030	0.233	444	O/R
SSR-0650*	**6.500**	**5.980**	102	0.125	0.390	6	0.030	0.233	385	87.43
SSR-0675*	**6.750**	**6.230**	104	0.125	0.420	6	0.030	0.233	353	O/R
SSR-0700*	**7.000**	**6.160**	106	0.156	0.320	6	0.032	0.375	646	O/R
SSR-0725*	**7.250**	**6.440**	108	0.156	0.350	6	0.032	0.375	557	O/R
SSR-0750*	**7.500**	**6.690**	110	0.156	0.360	6	0.032	0.375	539	O/R
SSR-0775*	**7.750**	**6.940**	114	0.156	0.380	6	0.032	0.375	509	O/R
SSR-0800*	**8.000**	**7.190**	118	0.156	0.390	6	0.032	0.375	504	115.87
SSR-0825*	**8.250**	**7.440**	122	0.156	0.430	6	0.032	0.375	445	O/R
SSR-0850*	**8.500**	**7.680**	126	0.156	0.340	7	0.032	0.375	685	O/R
SSR-0875*	**8.750**	**7.930**	130	0.156	0.340	7	0.032	0.375	707	O/R
SSR-0900*	**9.000**	**8.180**	134	0.156	0.290	8	0.032	0.375	1000	O/R
SSR-0950*	**9.500**	**8.680**	142	0.156	0.240	9	0.032	0.375	1690	O/R
SSR-1000*	**10.000**	**9.170**	150	0.156	0.290	9	0.032	0.375	1119	O/R
SSR-1050*	**10.500**	**9.670**	158	0.156	0.310	9	0.032	0.375	1026	O/R
SSR-1100*	**11.000**	**10.170**	166	0.156	0.350	9	0.032	0.375	856	O/R
SSR-1150*	**11.500**	**10.660**	174	0.156	0.360	9	0.032	0.375	853	O/R
SSR-1200*	**12.000**	**11.160**	182	0.156	0.440	9	0.032	0.375	641	O/R
SSR-1250*	**12.500**	**11.660**	190	0.156	0.350	10	0.032	0.375	979	O/R
SSR-1300*	**13.000**	**12.160**	198	0.156	0.410	10	0.032	0.375	780	O/R
SSR-1350*	**13.500**	**12.650**	206	0.156	0.430	10	0.032	0.375	752	O/R
SSR-1400*	**14.000**	**13.150**	214	0.156	0.300	12	0.032	0.375	1486	O/R
SSR-1450*	**14.500**	**13.650**	221	0.156	0.320	12	0.032	0.375	1348	O/R
SSR-1500*	**15.000**	**14.130**	230	0.156	0.350	12	0.032	0.375	1186	O/R
SSR-1550*	**15.500**	**14.640**	239	0.156	0.310	13	0.032	0.375	1552	O/R
SSR-1600*	**16.000**	**15.140**	248	0.156	0.340	13	0.032	0.375	1348	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SPU - Shipping Plate





Standard Material
Forged Steel

Forged steel shipping plates are a low cost solution to leaky, gasketless port covers.
They are 0.33" thick, silver trivalent plated for resistance to oxidation, and incorporate an o-ring groove on one side for "Zero Pressure" applications. The opposite side has a machined flat-face for capping off hose ends.

Applications Include: Cylinder Port Covers, Pump Port Covers, Stub-Out Header Line Covers, Maintenance. Work and Great for Painting Protection.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref. Number	Pad Size	A	B	C	D.	E	F	G	O'ring	Bolts	$
SP-08U*	0.500	1.810	1.810	0.688	1.500	0.330	1.000	0.344	210	5/16-18X.75	50.81
SP-12U*	0.750	2.062	2.062	0.875	1.875	0.330	1.250	0.413	214	3/8-16X.75	60.87
SP-16U	1.000	2.312	2.312	1.031	2.062	0.330	1.560	0.413	219	3/8-16X.75	69.66
SP-20U*	1.250	2.880	2.880	1.188	2.313	0.330	1.750	0.469	222	7/16-14X.75	83.47
SP-24U	1.500	3.250	3.250	1.406	2.750	0.300	2.115	0.531	225	1/2-13X.75	89.44
SP-32U*	2.000	3.810	3.810	1.688	3.062	0.330	2.490	0.531	228	1/2-13X.75	112.79
SP-40U*	2.500	4.280	4.280	2.000	3.500	0.330	2.995	0.531	232	1/2-13X.75	168.04
SP-48U*	3.000	5.160	5.160	2.438	4.188	0.330	3.615	0.656	237	5/8-11X1.00	234.44
SP-56U*	3.500	5.500	5.500	2.750	4.750	0.330	4.095	0.656	241	5/8-11X1.00	294.72
SP-64U*	4.000	6.000	6.000	3.062	5.125	0.330	4.595	0.656	245	5/8-11X1.00	340.24

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OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace, it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request, please do not hesitate to contact us and we will do our best to help you locate the required part.

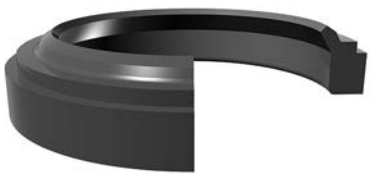




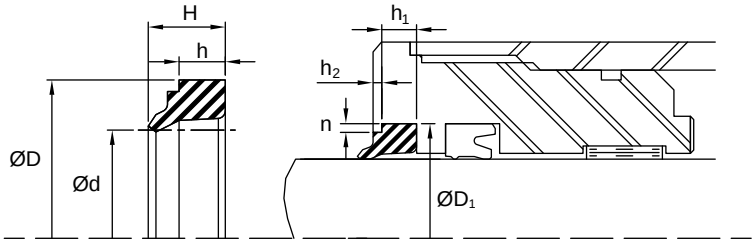
	WA/N	I	2
	WA/U	I	6
	WB/N - WB/U	I	8
	WC	I	10
	WC/U	I	13
	WF	I	21
	WG	I	23
	WG24	I	26
	SCK	I	27
	WH	I	28
	WJ	I	29
	WM	I	32
	WM/842	I	33

	WN	I	36
	WO	I	42
	WR	I	47
	W12	I	50
	WDL	I	51
	WS	I	52
	WT	I	56
	WT/N	I	58
	WV	I	60
	WW	I	62
	WZ	I	64
	W6	I	65

WA/N - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Nitrile	-40°F to +212°F (-40°C to +100°C)	<2.6 ft/s (0.8 m/s)



The **WA-style** wiper rings are medium-duty exclusion devices, and are made to snap into standard housings. Their lip shape insures that contaminants such as sand, mud and other debris are removed from the cylinder rod.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W004012040WA/N*	**4.00**	+0.00 -0.04	4.00	12.00		7.00	12.00	+0.11 -0.00	4.00	+0.15 -0.00	1.00	+0.01 -0.01	1.00	+0.02 -0.02	4.31
W005008022WA/N*	**5.00**		5.00	8.00		4.00	8.00		2.20		1.00		1.00		6.18
W006010022WA/N*	**6.00**		6.00	10.00		4.00	10.00		2.20		1.00		1.00		5.10
W008014026WA/N*	**8.00**		8.00	14.00		5.00	14.00		2.60		1.00		1.00		5.10
W008016040WA/N*	**8.00**		8.00	16.00		7.00	16.00		4.00		1.00		1.00		4.31
W010016026WA/N*	**10.00**		10.00	16.00		5.00	16.00		2.60		1.00		1.00		4.31
W010018040WA/N*	**10.00**		10.00	18.00		7.00	18.00		4.00		1.00		1.00		4.31
W012018026WA/N	**12.00**		12.00	18.00		5.00	18.00	+0.13 -0.00	2.60		1.00		1.00		4.31
W012020040WA/N*	**12.00**		12.00	20.00		7.00	20.00		4.00		1.00		1.00		4.31
W014020031WA/N*	**14.00**		14.00	20.00		5.00	20.00		3.10		1.00		1.00		4.31
W014022040WA/N*	**14.00**		14.00	22.00		7.00	22.00		4.00		1.00		1.00		4.31
W015023040WA/N	**15.00**		15.00	23.00		7.00	23.00		4.00		1.00		1.00		4.31
W016024040WA/N*	**16.00**		16.00	24.00		7.00	24.00		4.00		1.00		1.00		4.31
W017025040WA/N*	**17.00**		17.00	25.00		7.00	25.00		4.00		1.00		1.00		4.31
W018024031WA/N*	**18.00**		18.00	24.00		5.00	24.00		3.10		1.00		1.00		4.31
W018026040WA/N*	**18.00**		18.00	26.00		7.00	26.00		4.00		1.00		1.00		4.31
W020028040WA/N*	**20.00**		20.00	28.00		7.00	28.00		4.00		1.00		1.00		4.31
W022030040WA/N	**22.00**		22.00	30.00		7.00	30.00		4.00		1.00		1.00		4.31
W023031040WA/N*	**23.00**		23.00	31.00		7.00	31.00	+0.16 -0.00	4.00		1.00		1.00		4.31
W024032040WA/N*	**24.00**		24.00	32.00		7.00	32.00		4.00		1.00		1.00		4.31
W025033040WA/N*	**25.00**		25.00	33.00		7.00	33.00		4.00		1.00		1.00		4.45
W025034040WA/N*	**25.00**		25.00	34.00		7.00	34.00		4.00		1.00		1.00		4.45
W026034040WA/N*	**26.00**		26.00	34.00		7.00	34.00		4.00		1.00		1.00		4.45

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Nominal Seal Dimensions				Housing Dimensions								$
	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W028036040WA/N*	**28.00** + 0.00 - 0.04	28.00	36.00		7.00	36.00	+ 0.16 - 0.00	4.00	+ 0.15 - 0.00	1.00	+ 0.01 - 0.01	1.00	+ 0.02 - 0.02	5.13
W030038040WA/N*	**30.00**	30.00	38.00		7.00	38.00		4.00		1.00		1.00		4.72
W032040040WA/N*	**32.00**	32.00	40.00		7.00	40.00		4.00		1.00		1.00		5.94
W033041040WA/N*	**33.00**	33.00	41.00		7.00	41.00		4.00		1.00		1.00		5.13
W034042040WA/N*	**34.00**	34.00	42.00		7.00	42.00		4.00		1.00		1.00		5.13
W035043040WA/N*	**35.00**	35.00	43.00		7.00	43.00		4.00		1.00		1.00		5.67
W035043050WA/N*	**35.00**	35.00	43.00		8.00	43.00		5.00		1.50		1.50		5.67
W036044040WA/N*	**36.00**	36.00	44.00		7.00	44.00		4.00		1.00		1.00		5.94
W038046040WA/N*	**38.00**	38.00	46.00		7.00	46.00		4.00		1.00		1.00		5.94
W040048040WA/N*	**40.00** + 0.00 - 0.05	40.00	48.00		7.00	48.00		4.00		1.00		1.00		5.67
W041049040WA/N*	**41.00**	41.00	49.00		7.00	49.00		4.00		1.00		1.00		5.67
W042050040WA/N*	**42.00**	42.00	50.00		7.00	50.00		4.00		1.00		1.00		5.94
W044052040WA/N*	**44.00**	44.00	52.00		7.00	52.00	+ 0.19 - 0.00	4.00		1.00		1.00		5.94
W045053040WA/N*	**45.00**	45.00	53.00		7.00	53.00		4.00		1.00		1.00		6.49
W045057055WA/N*	**45.00**	45.00	57.00		10.00	57.00		5.50		1.50		1.50		6.49
W046054040WA/N*	**46.00**	46.00	54.00		7.00	54.00		4.00		1.00		1.00		6.49
W047055040WA/N*	**47.00**	47.00	55.00		7.00	55.00		4.00		1.00		1.00		6.49
W048056040WA/N*	**48.00**	48.00	56.00		7.00	56.00		4.00		1.00		1.00		7.15
W050058040WA/N*	**50.00**	50.00	58.00		7.00	58.00		4.00		1.00		1.00		7.28
W050062055WA/N*	**50.00**	50.00	62.00		10.00	62.00		5.50		1.50		1.50		7.69
W051059040WA/N*	**51.00**	51.00	59.00		7.00	59.00		4.00		1.00		1.00		7.69
W052060040WA/N*	**52.00**	52.00	60.00		7.00	60.00		4.00		1.00		1.00		7.83
W053061040WA/N*	**53.00**	53.00	61.00		7.00	61.00		4.00		1.00		1.00		7.83
W054062040WA/N*	**54.00**	54.00	62.00		7.00	62.00		4.00		1.00		1.00		7.83
W055063040WA/N*	**55.00**	55.00	63.00		7.00	63.00		4.00		1.00		1.00		8.10
W056064040WA/N*	**56.00**	56.00	64.00		7.00	64.00		4.00		1.00		1.00		7.69
W057065040WA/N*	**57.00**	57.00	65.00		7.00	65.00		4.00		1.00		1.00		7.69
W058066040WA/N*	**58.00**	58.00	66.00		7.00	66.00		4.00		1.00		1.00		7.69
W060068040WA/N*	**60.00**	60.00	68.00		7.00	68.00		4.00		1.00		1.00		7.69
W060072055WA/N*	**60.00**	60.00	72.00		10.00	72.00		5.50		1.50		1.50		7.83
W062070040WA/N*	**62.00**	62.00	70.00		7.00	70.00		4.00		1.00		1.00		7.83
W063071040WA/N*	**63.00**	63.00	71.00		7.00	71.00		4.00		1.00		1.00		8.64
W064072040WA/N*	**64.00** + 0.00 - 0.06	64.00	72.00		7.00	72.00		4.00		1.00		1.00		8.64
W065073040WA/N*	**65.00**	65.00	73.00		7.00	73.00		4.00		1.00		1.00		8.64
W066074040WA/N*	**66.00**	66.00	74.00		7.00	74.00		4.00		1.00		1.00		8.64
W067075040WA/N*	**67.00**	67.00	75.00		7.00	75.00		4.00		1.00		1.00		8.64
W068076040WA/N	**68.00**	68.00	76.00		7.00	76.00		4.00		1.00		1.00		8.64
W070078040WA/N*	**70.00**	70.00	78.00		7.00	78.00		4.00		1.00		1.00		9.46
W072080040WA/N*	**72.00**	72.00	80.00		7.00	80.00		4.00		1.00		1.00		9.46
W073081040WA/N*	**73.00**	73.00	81.00		7.00	81.00	+ 0.22 - 0.00	4.00		1.00		1.00		9.46
W075083040WA/N*	**75.00**	75.00	83.00		7.00	83.00		4.00		1.00		1.00		10.25
W078086040WA/N*	**78.00** + 0.00 - 0.09	78.00	86.00		7.00	86.00		4.00		1.00		1.00		10.25
W080088040WA/N*	**80.00**	80.00	88.00		7.00	88.00		4.00		1.00		1.00		9.85
W082090040WA/N*	**82.00**	82.00	90.00		7.00	90.00		4.00		1.00		1.00		10.25
W083091040WA/N*	**83.00**	83.00	91.00		7.00	91.00		4.00		1.00		1.00		10.25
W085093040WA/N*	**85.00**	85.00	93.00		7.00	93.00		4.00		1.00		1.00		11.07

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WA/N series - NBR 90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W086094040WA/N*	**86.00**	+ 0.00 - 0.09	86.00	94.00		7.00	94.00	+ 0.22 - 0.00	4.00	+ 0.15 - 0.00	1.00	+ 0.01 - 0.01	1.00	+ 0.02 - 0.02	11.07
W088096040WA/N*	**88.00**		88.00	96.00		7.00	96.00		4.00		1.00		1.00		11.07
W090098040WA/N*	**90.00**		90.00	98.00		7.00	98.00		4.00		1.00		1.00		11.07
W092100040WA/N	**92.00**		92.00	100.00		7.00	100.00		4.00		1.00		1.00		11.07
W093101040WA/N*	**93.00**		93.00	101.00		7.00	101.00		4.00		1.00		1.00		11.68
W095103040WA/N*	**95.00**		95.00	103.00		7.00	103.00		4.00		1.00		1.00		11.68
W095103055WA/N*	**95.00**		95.00	103.00		10.00	103.00		5.50		1.50		1.50		11.68
W097105040WA/N*	**97.00**		97.00	105.00		7.00	105.00		4.00		1.00		1.00		12.82
W100108040WA/N*	**100.00**		100.00	108.00		7.00	108.00		4.00		1.00		1.00		13.36
W100108055WA/N*	**100.00**	↓	100.00	108.00		10.00	108.00	↓	5.50	↓	1.50	↓	1.50	↓	13.36
W102114055WA/N*	**102.00**	+ 0.00 - 0.13	102.00	114.00		10.00	114.00		5.50		1.50		1.50		13.36
W105117055WA/N*	**105.00**		105.00	117.00		10.00	117.00		5.50		1.50		1.50		65.82
W106118055WA/N*	**106.00**		106.00	118.00		10.00	118.00	+ 0.25 - 0.00	5.50		1.50		1.50		13.36
W110118040WA/N*	**110.00**		110.00	118.00		7.00	118.00		4.00		1.00		1.00		15.38
W110118055WA/N*	**110.00**		110.00	118.00		10.00	118.00		5.50		1.50		1.50		15.38
W110122055WA/N	**110.00**		110.00	122.00		10.00	122.00		5.50		1.50		1.50		17.94
W112124055WA/N*	**112.00**		112.00	124.00		10.00	124.00		5.50		1.50		1.50		17.94
W113121040WA/N*	**113.00**		113.00	121.00		7.00	121.00		4.00		1.00		1.00		17.94
W114122040WA/N*	**114.00**		114.00	122.00		7.00	122.00		4.00		1.00		1.00		17.94
W115127055WA/N*	**115.00**		115.00	127.00		10.00	127.00		5.50		1.50		1.50		17.94
W118130055WA/N*	**118.00**		118.00	130.00		10.00	130.00		5.50		1.50		1.50		17.94
W120132055WA/N	**120.00**		120.00	132.00		10.00	132.00		5.50		1.50		1.50		19.71
W125133040WA/N*	**125.00**		125.00	133.00		7.00	133.00		4.00		1.00		1.00		19.71
W125137055WA/N*	**125.00**		125.00	137.00		10.00	137.00		5.50		1.50		1.50		19.30
W128140055WA/N*	**128.00**		128.00	140.00		10.00	140.00		5.50		1.50		1.50		22.68
W130142055WA/N*	**130.00**		130.00	142.00		10.00	142.00		5.50		1.50		1.50		22.68
W131139040WA/N*	**131.00**		131.00	139.00		7.00	139.00		4.00		1.00		1.00		22.68
W135147055WA/N	**135.00**		135.00	147.00		10.00	147.00		5.50		1.50		1.50		22.68
W140152055WA/N*	**140.00**		140.00	152.00		10.00	152.00		5.50		1.50		1.50		25.25
W140155065WA/N*	**140.00**		140.00	155.00		13.00	155.00		6.50		2.00		2.00		25.25
W142154055WA/N*	**142.00**		142.00	154.00		10.00	154.00		5.50		1.50		1.50		25.25
W145157055WA/N*	**145.00**		145.00	157.00		10.00	157.00		5.50		1.50		1.50		25.25
W149157040WA/N*	**149.00**		149.00	157.00		7.00	157.00		4.00		1.00		1.00		25.25
W150162055WA/N	**150.00**		150.00	162.00		10.00	162.00		5.50		1.50		1.50		36.84
W152164055WA/N*	**152.00**		152.00	164.00		10.00	164.00		5.50		1.50		1.50		36.84
W154166055WA/N*	**154.00**		154.00	166.00		10.00	166.00		5.50		1.50		1.50		36.84
W155167055WA/N*	**155.00**		155.00	167.00		10.00	167.00		5.50		1.50		1.50		36.84
W160172055WA/N*	**160.00**		160.00	172.00		10.00	172.00		5.50		1.50		1.50		67.08
W165177055WA/N*	**165.00**		165.00	177.00		10.00	177.00		5.50		1.50		1.50		48.73
W166178055WA/N*	**166.00**		166.00	178.00		10.00	178.00		5.50		1.50		1.50		48.73
W168176040WA/N*	**168.00**		168.00	176.00		7.00	176.00	↓	4.00	↓	1.00	↓	1.00	↓	48.73
W170182055WA/N*	**170.00**		170.00	182.00		10.00	182.00	+ 0.29 - 0.00	5.50		1.50		1.50		48.73
W175187055WA/N*	**175.00**		175.00	187.00		10.00	187.00		5.50		1.50		1.50		48.73
W180192055WA/N	**180.00**		180.00	192.00		10.00	192.00		5.50		1.50		1.50		48.73
W185197055WA/N*	**185.00**		185.00	197.00		10.00	197.00		5.50		1.50		1.50		48.73
W188196040WA/N*	**188.00**	↓	188.00	196.00		7.00	196.00	↓	4.00	↓	1.00	↓	1.00	↓	48.73

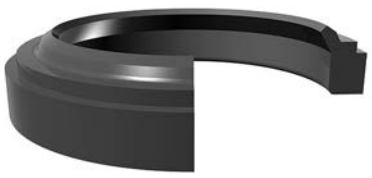
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W190202055WA/N	**190.00**	+ 0.00 - 0.13	190.00	202.00		10.00	202.00	+ 0.29 - 0.00	5.50	+ 0.15 - 0.00	1.50	+ 0.01 - 0.01	1.50	+ 0.02 - 0.02	72.34
W195207055WA/N*	**195.00**		195.00	207.00		10.00	207.00		5.50		1.50		1.50		72.34
W200212055WA/N	**200.00**		200.00	212.00		10.00	212.00		5.50		1.50		1.50		72.34
W210218040WA/N*	**210.00**		210.00	218.00		7.00	218.00		4.00		1.00		1.00		72.34
W210225065WA/N*	**210.00**		210.00	225.00		13.00	225.00		6.50		2.00		2.00		71.14
W220235065WA/N*	**220.00**		220.00	235.00		13.00	235.00		6.50		2.00		2.00		82.07
W230245065WA/N*	**230.00**		230.00	245.00		13.00	245.00		6.50		2.00		2.00		82.07
W235250065WA/N*	**235.00**		235.00	250.00		13.00	250.00		6.50		2.00		2.00		82.07
W238253065WA/N*	**238.00**		238.00	253.00		13.00	253.00		6.50		2.00		2.00		100.04
W240255065WA/N*	**240.00**		240.00	255.00		13.00	255.00	+ 0.32 - 0.00	6.50		2.00		2.00		136.80
W250265065WA/N*	**250.00**		250.00	265.00		13.00	265.00		6.50		2.00		2.00		148.33
W260275065WA/N*	**260.00**		260.00	275.00		13.00	275.00		6.50		2.00		2.00		164.20
W265280065WA/N*	**265.00**		265.00	280.00		13.00	280.00		6.50		2.00		2.00		174.38
W300315065WA/N*	**300.00**		300.00	315.00		13.00	315.00		6.50		2.00		2.00		174.38
W305320065WA/N*	**305.00**		305.00	320.00		13.00	320.00		6.50		2.00		2.00		189.99
W310325065WA/N*	**310.00**		310.00	325.00		13.00	325.00	+ 0.36 - 0.00	6.50		2.00		2.00		192.60
W315330065WA/N*	**315.00**		315.00	330.00		13.00	330.00		6.50		2.00		2.00		204.00
W320335065WA/N*	**320.00**		320.00	335.00		13.00	335.00		6.50		2.00		2.00		216.21
W340355065WA/N*	**340.00**		340.00	355.00		13.00	355.00		6.50		2.00		2.00		253.60
W365380065WA/N*	**365.00**		365.00	380.00		13.00	380.00		6.50		2.00		2.00		261.20
W400415065WA/N*	**400.00**		400.00	415.00		13.00	415.00	+ 0.40 - 0.00	6.50		2.00		2.00		272.89
W450465065WA/N*	**450.00**		450.00	465.00		13.00	465.00		6.50		2.00		2.00		299.99
W500515065WA/N*	**500.00**		500.00	515.00		13.00	515.00		6.50		2.00		2.00		304.21

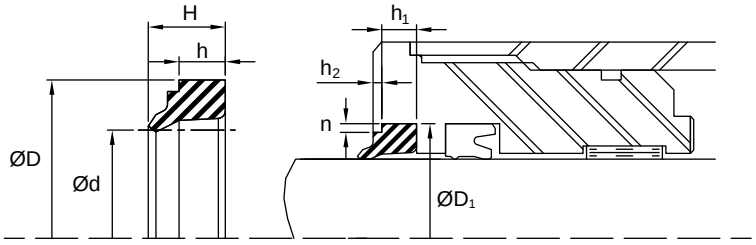
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



WA/U - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane	-22°F to +212°F (-30°C to +100°C)	<2.6 ft/s (0.8 m/s)



The **WA-style** wiper rings are medium-duty exclusion devices, and are made to snap into standard housings. Their lip shape insures that contaminants such as sand, mud and other debris are removed from the cylinder rod.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

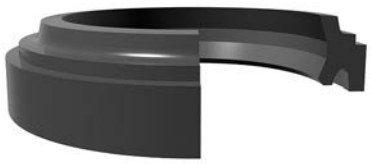
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W010018040WA/U*	**10.00**	+0.00 -0.04	10.00	18.00		7.00	18.00	+0.11 -0.00	4.00	+0.15 -0.00	1.00	+0.01 -0.01	1.00	+0.02 -0.02	3.79
W012018026WA/U*	**12.00**		12.00	18.00		5.00	18.00		2.60		1.00		1.00		3.79
W012020040WA/U*	**12.00**		12.00	20.00		7.00	20.00	+0.13 -0.00	4.00		1.00		1.00		4.25
W014022040WA/U*	**14.00**		14.00	22.00		7.00	22.00		4.00		1.00		1.00		4.45
W015023040WA/U*	**15.00**		15.00	23.00		7.00	23.00		4.00		1.00		1.00		4.71
W016024040WA/U	**16.00**		16.00	24.00		7.00	24.00		4.00		1.00		1.00		3.21
W018026040WA/U	**18.00**		18.00	26.00		7.00	26.00		4.00		1.00		1.00		3.51
W020028040WA/U	**20.00**		20.00	28.00		7.00	28.00		4.00		1.00		1.00		4.72
W022030040WA/U	**22.00**		22.00	30.00		7.00	30.00		4.00		1.00		1.00		3.52
W025033040WA/U	**25.00**		25.00	33.00		7.00	33.00	+0.16 -0.00	4.00		1.00		1.00		3.21
W026034040WA/U*	**26.00**		26.00	34.00		7.00	34.00		4.00		1.00		1.00		13.28
W028036040WA/U	**28.00**		28.00	36.00		7.00	36.00		4.00		1.00		1.00		4.12
W030038040WA/U	**30.00**		30.00	38.00		7.00	38.00		4.00		1.00		1.00		4.32
W032040040WA/U	**32.00**		32.00	40.00		7.00	40.00		4.00		1.00		1.00		4.12
W035043040WA/U	**35.00**		35.00	43.00		7.00	43.00		4.00		1.00		1.00		4.32
W036044040WA/U	**36.00**		36.00	44.00		7.00	44.00		4.00		1.00		1.00		4.12
W038046040WA/U	**38.00**		38.00	46.00		7.00	46.00		4.00		1.00		1.00		5.54
W040048040WA/U	**40.00**		40.00	48.00		7.00	48.00		4.00		1.00		1.00		4.94
W042050040WA/U	**42.00**		42.00	50.00		7.00	50.00		4.00		1.00		1.00		5.15
W045053040WA/U	**45.00**		45.00	53.00		7.00	53.00	+0.19 -0.00	4.00		1.00		1.00		4.53
W050058040WA/U	**50.00**		50.00	58.00		7.00	58.00		4.00		1.00		1.00		4.12
W055063040WA/U	**55.00**		55.00	63.00		7.00	63.00		4.00		1.00		1.00		6.58
W056064040WA/U	**56.00**		56.00	64.00		7.00	64.00		4.00		1.00		1.00		6.58

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

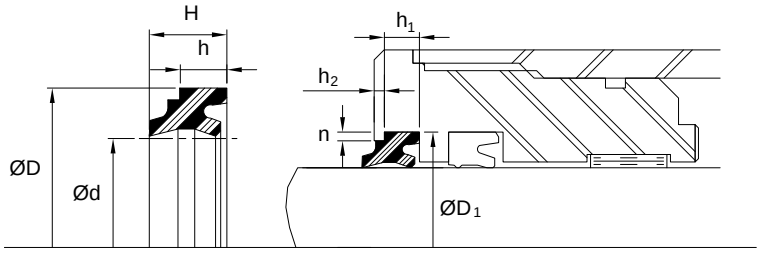
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W060068040WA/U	**60.00**	+ 0.00 - 0.04	60.00	68.00		7.00	68.00	+ 0.19 - 0.00	4.00	+ 0.15 - 0.00	1.00	+ 0.01 - 0.01	1.00	+ 0.02 - 0.02	6.13
W062070040WA/U*	**62.00**		62.00	70.00		7.00	70.00		4.00		1.00		1.00		8.13
W063071040WA/U	**63.00**		63.00	71.00		7.00	71.00		4.00		1.00		1.00		6.13
W065071040WA/U*	**65.00**		65.00	71.00		7.00	71.00		4.00		1.00		1.00		6.41
W065073040WA/U	**65.00**		65.00	73.00		7.00	73.00		4.00		1.00		1.00		6.37
W070078040WA/U	**70.00**		70.00	78.00		7.00	78.00		4.00		1.00		1.00		4.94
W072080040WA/U*	**72.00**		72.00	80.00		7.00	80.00		4.00		1.00		1.00		6.35
W075083040WA/U	**75.00**		75.00	83.00		7.00	83.00	+ 0.22 - 0.00	4.00		1.00		1.00		6.28
W078086040WA/U*	**78.00**		78.00	86.00		7.00	86.00		4.00		1.00		1.00		7.10
W080088040WA/U	**80.00**	+ 0.00 - 0.05	80.00	88.00		7.00	88.00		4.00		1.00		1.00		6.97
W082090040WA/U*	**82.00**		82.00	90.00		7.00	90.00		4.00		1.00		1.00		7.36
W085093040WA/U	**85.00**		85.00	93.00		7.00	93.00		4.00		1.00		1.00		8.13
W090098040WA/U	**90.00**		90.00	98.00		7.00	98.00		4.00		1.00		1.00		5.72
W095103040WA/U*	**95.00**		95.00	103.00		7.00	103.00		4.00		1.00		1.00		9.63
W100108040WA/U	**100.00**		100.00	108.00		7.00	108.00		4.00		1.00		1.00		8.44
W105113040WA/U*	**105.00**		105.00	113.00		7.00	113.00		4.00		1.00		1.00		10.81
W105117055WA/U*	**105.00**		105.00	117.00		10.00	117.00		5.50		1.50		1.50		11.38
W110122055WA/U*	**110.00**		110.00	122.00		10.00	122.00	+ 0.25 - 0.00	5.50		1.50		1.50		11.83
W115127055WA/U*	**115.00**		115.00	127.00		10.00	127.00		5.50		1.50		1.50		13.18
W120132055WA/U*	**120.00**		120.00	132.00		10.00	132.00		5.50		1.50		1.50		14.22
W125137055WA/U	**125.00**		125.00	137.00		10.00	137.00		5.50		1.50		1.50		15.06
W130142055WA/U*	**130.00**		130.00	142.00		10.00	142.00		5.50		1.50		1.50		15.97
W135147055WA/U*	**135.00**		135.00	147.00		10.00	147.00		5.50		1.50		1.50		18.07
W140152055WA/U*	**140.00**		140.00	152.00		10.00	152.00		5.50		1.50		1.50		18.81
W145157055WA/U*	**145.00**		145.00	157.00		10.00	157.00		5.50		1.50		1.50		20.01
W150162055WA/U*	**150.00**		150.00	162.00		10.00	162.00		5.50		1.50		1.50		20.45
W160172055WA/U	**160.00**		160.00	172.00		10.00	172.00		5.50		1.50		1.50		21.07
W170182055WA/U*	**170.00**		170.00	182.00		10.00	182.00	+ 0.29 - 0.00	5.50		1.50		1.50		22.72
W180192055WA/U*	**180.00**		180.00	192.00		10.00	192.00		5.50		1.50		1.50		24.27
W190202055WA/U*	**190.00**		190.00	202.00		10.00	202.00		5.50		1.50		1.50		O/R
W200212055WA/U*	**200.00**		200.00	212.00		10.00	212.00		5.50		1.50		1.50		O/R
W220235055WA/U*	**220.00**		220.00	235.00		13.00	235.00		5.50		2.00		2.00		O/R
W230245055WA/U*	**230.00**	+ 0.00 - 0.06	230.00	245.00		13.00	245.00		5.50		2.00		2.00		O/R
W240255055WA/U*	**240.00**		240.00	255.00		13.00	255.00	+ 0.32 - 0.00	5.50		2.00		2.00		O/R
W260275055WA/U*	**260.00**		260.00	275.00		13.00	275.00		5.50		2.00		2.00		O/R
W275290055WA/U*	**275.00**		275.00	290.00		13.00	290.00		5.50		2.00		2.00		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WB/N - WB/U - Rod wipers - Metric



Standard Materials	Temperature Range	Surface Speed
Nitrile /N	-40°F to +212°F (-40°C to +100°C)	<2.6 ft/s (0.8 m/s)
Polyurethane /U	-22°F to +212°F (-30°C to +100°C)	<2.6 ft/s (0.8 m/s)



The **WB-style** is a dual lip, dual function wiper. It insures proper wiping action of the rod and also acts as a secondary rod seal for both hydraulic and pneumatic cylinder applications.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

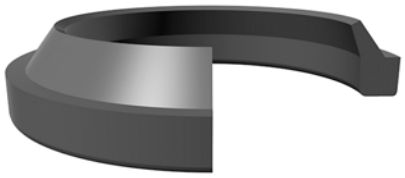
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$ NBR /N	$ AU /U
			d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.		
W010018040WB	**10.00**	+0.00 -0.04	10.00	18.00	4.00	8.00	18.00	+0.04 -0.00	4.00	+0.15 -0.00	1.00	+0.01 -0.01	1.00	+0.02 -0.02	5.47	6.89*
W012020040WB	**12.00**		12.00	20.00	4.00	8.00	20.00		4.00		1.00		1.00		16.80*	21.17*
W014022040WB	**14.00**		14.00	22.00	4.00	8.00	22.00	+0.05 -0.00	4.00		1.00		1.00		5.47*	6.89*
W015023040WB	**15.00**		15.00	23.00	4.00	8.00	23.00		4.00		1.00		1.00		5.47*	6.89*
W016024040WB	**16.00**		16.00	24.00	4.00	8.00	24.00		4.00		1.00		1.00		5.51*	6.94
W018026040WB	**18.00**		18.00	26.00	4.00	8.00	26.00		4.00		1.00		1.00		5.53*	6.97
W020028040WB	**20.00**		20.00	28.00	4.00	8.00	28.00		4.00		1.00		1.00		7.14*	9.00
W022030040WB	**22.00**		22.00	30.00	4.00	8.00	30.00		4.00		1.00		1.00		7.14*	9.00
W024032040WB	**24.00**		24.00	32.00	4.00	8.00	32.00		4.00		1.00		1.00		7.14*	9.00*
W025033040WB	**25.00**		25.00	33.00	4.00	8.00	33.00	+0.06 -0.00	4.00		1.00		1.00		7.14*	9.00
W028036040WB	**28.00**		28.00	36.00	4.00	8.00	36.00		4.00		1.00		1.00		7.14*	9.00
W030038040WB	**30.00**		30.00	38.00	4.00	8.00	38.00		4.00		1.00		1.00		8.53*	10.75
W032040040WB	**32.00**		32.00	40.00	4.00	8.00	40.00		4.00		1.00		1.00		8.53*	10.75*
W035043040WB	**35.00**		35.00	43.00	4.00	8.00	43.00		4.00		1.00		1.00		6.71*	8.45
W036044040WB	**36.00**		36.00	44.00	4.00	8.00	44.00		4.00		1.00		1.00		8.53*	10.75
W037045040WB	**37.00**		37.00	45.00	4.00	8.00	45.00		4.00		1.00		1.00		8.53*	10.75*
W038046040WB	**38.00**		38.00	46.00	4.00	8.00	46.00		4.00		1.00		1.00		8.53*	10.75*
W040048040WB	**40.00**	+0.00 -0.05	40.00	48.00	4.00	8.00	48.00		4.00		1.00		1.00		8.53*	10.75
W042050040WB	**42.00**		42.00	50.00	4.00	8.00	50.00		4.00		1.00		1.00		7.29*	9.19
W045053040WB	**45.00**		45.00	53.00	4.00	8.00	53.00	+0.07 -0.00	4.00		1.00		1.00		7.38*	9.30
W046054040WB	**46.00**		46.00	54.00	4.00	8.00	54.00		4.00		1.00		1.00		7.99*	10.07*
W048056040WB	**48.00**		48.00	56.00	4.00	8.00	56.00		4.00		1.00		1.00		8.25*	10.40*
W050058040WB	**50.00**		50.00	58.00	4.00	8.00	58.00		4.00		1.00		1.00		9.91*	12.49
W055063040WB	**55.00**		55.00	63.00	4.00	8.00	63.00		4.00		1.00		1.00		12.68*	15.98*

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

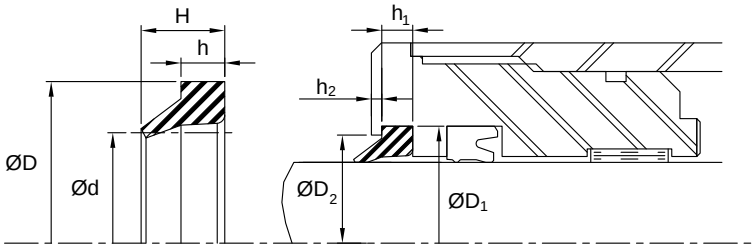
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$ NBR /N	$ AU /U
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.		
W056064040WB	**56.00**	+ 0.00 - 0.05	56.00	64.00	4.00	8.00	64.00	+ 0.07 - 0.00	4.00	+ 0.15 - 0.00	1.00	+ 0.01 - 0.01	1.00	+ 0.02 - 0.02	13.13*	16.54
W060068040WB	**60.00**		60.00	68.00	4.00	8.00	68.00		4.00		1.00		1.00		11.98*	15.09
W063071040WB	**63.00**		63.00	71.00	4.00	8.00	71.00		4.00		1.00		1.00		11.76*	14.82
W065073040WB	**65.00**	+ 0.00 - 0.06	65.00	73.00	4.00	8.00	73.00		4.00		1.00		1.00		13.31*	16.77*
W068076040WB	**68.00**		68.00	76.00	4.00	8.00	76.00		4.00		1.00		1.00		13.35*	16.82*
W070078040WB	**70.00**		70.00	78.00	4.00	8.00	78.00		4.00		1.00		1.00		13.37*	16.85
W075083040WB	**75.00**		75.00	83.00	4.00	8.00	83.00	+ 0.08 - 0.00	4.00		1.00		1.00		13.37*	16.85
W080088040WB	**80.00**	+ 0.00 - 0.09	80.00	88.00	4.00	8.00	88.00		4.00		1.00		1.00		11.33*	14.28
W085093040WB	**85.00**		85.00	93.00	4.00	8.00	93.00		4.00		1.00		1.00		11.85*	14.93*
W090098040WB	**90.00**		90.00	98.00	4.00	8.00	98.00		4.00		1.00		1.00		17.97*	22.64
W095103040WB	**95.00**		95.00	103.00	4.00	8.00	103.00		4.00		1.00		1.00		21.40*	26.96*
W100108040WB	**100.00**		100.00	108.00	4.00	8.00	108.00		4.00		1.00		1.00		22.58*	28.45*
W105117055WB	**105.00**	+ 0.00 - 0.13	105.00	117.00	5.50	11.10	117.00		5.50		1.50		1.50		18.43*	23.22*
W110122055WB	**110.00**		110.00	122.00	5.50	11.10	122.00		5.50		1.50		1.50		23.51*	29.62
W115127055WB	**115.00**		115.00	127.00	5.50	11.10	127.00	+ 0.10 - 0.00	5.50		1.50		1.50		20.19*	25.44*
W120132055WB	**120.00**		120.00	132.00	5.50	11.10	132.00		5.50		1.50		1.50		24.65*	31.06*
W125137055WB	**125.00**		125.00	137.00	5.50	11.10	137.00		5.50		1.50		1.50		39.20*	49.39*
W130142055WB	**130.00**		130.00	142.00	5.50	11.10	142.00		5.50		1.50		1.50		30.65*	38.62
W135147055WB	**135.00**		135.00	147.00	5.50	11.10	147.00		5.50		1.50		1.50		26.32*	33.16*
W140152055WB	**140.00**		140.00	152.00	5.50	11.10	152.00	+ 0.19 - 0.00	5.50		1.50		1.50		38.26*	48.21
W145157055WB	**145.00**		145.00	157.00	5.50	11.10	157.00		5.50		1.50		1.50		36.20*	45.61*
W150162055WB	**150.00**		150.00	162.00	5.50	11.10	162.00		5.50		1.50		1.50		32.96*	41.53
W155167055WB	**155.00**		155.00	167.00	5.50	11.10	167.00		5.50		1.50		1.50		41.20*	51.91*
W160172055WB	**160.00**		160.00	172.00	5.50	11.10	172.00		5.50		1.50		1.50		56.72*	71.47
W165177055WB	**165.00**		165.00	177.00	5.50	11.10	177.00		5.50		1.50		1.50		61.40*	77.36*
W170182055WB	**170.00**		170.00	182.00	5.50	11.10	182.00	+ 0.11 - 0.00	5.50		1.50		1.50		67.98*	85.65*
W180192055WB	**180.00**		180.00	192.00	5.50	11.10	192.00		5.50		1.50		1.50		85.03*	107.14
W185197055WB	**185.00**		185.00	197.00	5.50	11.10	197.00		5.50		1.50		1.50		89.6*	112.90*
W190202055WB	**190.00**		190.00	202.00	5.50	11.10	202.00		5.50		1.50		1.50		94.20*	118.69*
W195207055WB	**195.00**		195.00	207.00	5.50	11.10	207.00		5.50		1.50		1.50		100.00*	126.00*
W200212055WB	**200.00**		200.00	212.00	5.50	11.10	212.00		5.50		1.50		1.50		101.86*	128.34*
W205220065WB	**205.00**		205.00	220.00	6.50	12.50	220.00		6.50		2.00		2.00		102.85*	129.59*
W210225065WB	**210.00**		210.00	225.00	6.50	12.50	225.00		6.50		2.00		2.00		103.69*	130.65*
W225240065WB	**225.00**		225.00	240.00	6.50	12.50	240.00		6.50		2.00		2.00		109.20*	137.59*
W230245065WB	**230.00**		230.00	245.00	6.50	12.50	245.00		6.50		2.00		2.00		108.60*	136.84*
W240255065WB	**240.00**		240.00	255.00	6.50	12.50	255.00	+ 0.13 - 0.00	6.50		2.00		2.00		111.53*	140.53*
W250265065WB	**250.00**		250.00	265.00	6.50	12.50	265.00		6.50		2.00		2.00		113.99*	143.63*
W260275065WB	**260.00**		260.00	275.00	6.50	12.50	275.00		6.50		2.00		2.00		114.01*	143.65*
W275290065WB	**275.00**		275.00	290.00	6.50	12.50	290.00		6.50		2.00		2.00		123.60*	155.74*
W280295065WB	**280.00**		280.00	295.00	6.50	12.50	295.00		6.50		2.00		2.00		131.99*	166.31*
W290305065WB	**290.00**		290.00	305.00	6.50	12.50	305.00		6.50		2.00		2.00		142.80*	179.93*
W300315065WB	**300.00**		300.00	315.00	6.50	12.50	315.00		6.50		2.00		2.00		145.60*	183.46*
W320335065WB	**320.00**		320.00	335.00	6.50	12.50	335.00	+ 0.13 - 0.00	6.50		2.00		2.00		189.75*	239.09*
W350365065WB	**350.00**		350.00	365.00	6.50	12.50	365.00		6.50		2.00		2.00		210.99*	265.85*
W360375065WB	**360.00**		360.00	375.00	6.50	12.50	375.00		6.50		2.00		2.00		249.60*	314.5*
W370385065WB	**370.00**		370.00	385.00	6.50	12.50	385.00		6.50		2.00		2.00		253.61*	319.55*

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WC - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Nitrile	-40°F to +212°F (-40°C to +100°C)	< 2.6 ft/s (0.8 m/s)



The **WC-style** is a popular snap-in wiper style that fits into standard housings. A heavier cross-section insures that it will efficiently wipe most contaminants from the cylinder rod, while remaining stable in the housing. The precision knives-trimmed lip keeps the scraping edge of the wiper in an optimal position for maximum efficiency.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W012016030WC	**12.00**	+ 0.00 - 0.04	12.00	16.00		3.90	16.00	+ 0.08 - 0.00	14.00	+ 0.10 - 0.00	3.20	+ 0.08 - 0.00	1.50	+ 0.20 - 0.20	12.21
W012018035WC	**12.00**		12.00	18.00		5.50	18.60		15.00		3.80		2.00		12.32
W012020040WC*	**12.00**		12.00	20.00		6.00	20.60		15.00		4.10		2.00		12.41
W012020050WC*	**12.00**		12.00	20.00		7.00	20.60		15.00		5.30		2.00		12.48
W014018029WC	**14.00**		14.00	18.00		3.90	18.60		15.50		3.10		1.00		16.03
W015021035WC	**15.00**		15.00	21.00		5.50	21.60		18.00		3.80		2.00		12.56
W016022028WC	**16.00**		16.00	22.00		3.80	22.60		17.00		3.00		2.00		12.62
W016022035WC	**16.00**		16.00	22.00		5.50	22.60		17.00		3.80		2.00		12.71
W018024035WC	**18.00**		18.00	24.00		5.50	24.60		21.00		3.80		2.00		12.79
W018026040WC	**18.00**		18.00	26.00		6.00	26.50		22.50		4.10		2.00		12.83
W019028050WC	**19.00**		19.00	28.00		7.00	28.60		22.00		5.30		2.00		12.87
W020028040WC*	**20.00**		19.00	28.00		6.00	28.60		24.00		4.10		2.00		12.90
W020028050WC*	**20.00**		20.00	28.00		7.00	28.60		23.00		5.30		2.00		13.05
W022030040WC	**22.00**		22.00	30.00		6.00	30.60		26.00		4.10		2.00		13.74
W022030050WC	**22.00**		22.00	30.00		7.00	30.60		25.00		5.30		2.00		13.71
W024032050WC*	**24.00**		24.00	32.00		7.00	32.60		27.00		5.30		2.00		13.76
W025033040WC	**25.00**		25.00	33.00		6.00	33.60		28.00		4.10		2.00		13.81
W025033050WC	**25.00**		25.00	33.00		7.00	33.60		28.00		5.30		2.00		13.84
W028036040WC	**28.00**		28.00	36.00		6.00	36.60		31.00		4.10		2.00		8.56
W028036050WC	**28.00**		28.00	36.00		7.00	36.60		31.00		5.30		2.00		12.32
W030038050WC	**30.00**		30.00	38.00		7.00	38.60		33.00		5.30		2.00		12.26
W030042060WC	**30.00**		30.00	42.00		9.00	42.50		36.00		6.30		2.00		8.01
W032040050WC	**32.00**		32.00	40.00		7.00	40.60		35.00		5.30		2.00		12.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W032042050WC*	**32.00**	+ 0.00 - 0.04	32.00	42.00		7.00	42.60	+ 0.08 - 0.00	36.00	+ 0.10 - 0.00	5.30	+ 0.08 - 0.00	2.00	+ 0.20 - 0.20	12.09
W032044060WC	**32.00**		32.00	44.00		9.00	44.60		38.00		6.30		2.00		6.99
W035043050WC	**35.00**		35.00	43.00		7.00	43.60		38.00		5.30		2.00		12.04
W035047060WC	**35.00**		35.00	47.00		9.00	47.60		41.00		6.30		3.00		11.80
W036044050WC	**36.00**		36.00	44.00		7.00	44.60		39.00		5.30		2.00		8.01
W036048060WC*	**36.00**		36.00	48.00		9.00	48.60		42.00		6.30		3.00		8.24
W040048050WC	**40.00**	+ 0.00 - 0.05	40.00	48.00		7.00	48.60		43.00		5.30		2.00		7.77
W040052060WC	**40.00**		40.00	52.00		9.00	52.20		46.00		6.30		2.00		7.01
W042050050WC*	**42.00**		42.00	50.00		7.00	50.60		45.00		5.30		2.00		9.36
W045053050WC	**45.00**		45.00	53.00		7.00	53.60		48.00		5.30		2.00		9.49
W045055050WC	**45.00**		45.00	55.00		7.00	55.60		49.00		5.30		2.00		9.61
W045057060WC*	**45.00**		45.00	57.00		9.00	57.00		51.00		6.30		3.00		8.23
W048056050WC	**48.00**		48.00	56.00		7.00	56.60		51.00		5.30		2.00		9.99
W050058050WC	**50.00**		50.00	58.00		7.00	58.60		53.00		5.30		2.00		10.88
W050060050WC	**50.00**		50.00	60.00		7.00	60.60		54.00		5.30		2.00		11.99
W050062050WC	**50.00**		50.00	62.00		7.00	62.20		56.00		5.30		2.00		16.01
W050062060WC	**50.00**		50.00	62.00		9.00	62.20		56.00		6.30		2.00		15.21
W055063050WC	**55.00**		55.00	63.00		7.00	63.60		58.00		5.30		2.00		15.87
W055065050WC	**55.00**		55.00	65.00		7.00	65.60		59.00		5.30		2.00		7.50
W055067060WC	**55.00**		55.00	67.00		9.00	67.00		61.00		6.00		3.00		13.98
W056066050WC*	**56.00**		56.00	66.00		7.00	66.60		59.00		5.30		2.00		9.98
W056066063WC*	**56.00**		56.00	66.00		9.00	66.60		59.00		6.50		2.00		16.68
W056068060WC*	**56.00**		56.00	68.00		9.00	68.00		62.00		6.00		3.00		15.21
W058068050WC*	**58.00**		58.00	68.00		7.00	68.60		61.00		5.30		2.00		14.00
W060068050WC	**60.00**		60.00	68.00		7.00	68.60		63.00		5.30		2.00		12.74
W060070050WC	**60.00**		60.00	70.00		7.00	70.60		63.00		5.30		2.00		9.65
W060072050WC*	**60.00**		60.00	72.00		7.00	72.00		66.00		5.30		3.00		9.71
W060072060WC	**60.00**		60.00	72.00		9.00	72.20		66.00		6.30		2.00		7.99
W063071050WC*	**63.00**		63.00	71.00		7.00	71.60		66.00		5.30		2.00		8.23
W063073050WC	**63.00**		63.00	73.00		7.00	73.60		67.00		5.30		2.00		8.21
W063073063WC*	**63.00**		63.00	73.00		8.10	73.00		70.00		6.30		1.80		8.36
W063075060WC	**63.00**		63.00	75.00		9.00	75.60		69.00		6.30		2.00		8.67
W065073050WC*	**65.00**	+ 0.00 - 0.06	65.00	73.00		7.00	73.60		68.00		5.30		2.00		9.23
W065075050WC*	**65.00**		65.00	75.00		7.00	75.60		69.00		5.30		2.00		10.15
W065077060WC	**65.00**		65.00	77.00		9.00	77.00		71.00		6.30		3.00		12.94
W070078050WC*	**70.00**		70.00	78.00		7.00	78.60	+ 0.10 - 0.00	73.00		5.30		2.00		10.93
W070080050WC	**70.00**		70.00	80.00		7.00	80.60		73.00		5.30		2.00		9.01
W070080063WC*	**70.00**		70.00	80.00		7.10	80.00		77.00		6.30		1.80		11.21
W070082060WC*	**70.00**		70.00	82.00		9.00	82.00		76.00		6.00		3.00		12.03
W070082070WC	**70.00**		70.00	82.00		12.00	82.60		76.00		7.10		5.00		10.17
W075083050WC*	**75.00**		75.00	83.00		7.00	83.60		78.00		5.30		2.00		10.22
W075087070WC	**75.00**		75.00	87.00		12.00	87.20		81.00		7.10		5.00		9.23
W080088050WC	**80.00**	+ 0.00 - 0.09	80.00	88.00		7.00	88.60		83.00		5.30		2.00		8.60
W080090063WC	**80.00**		80.00	90.00		8.10	90.00		87.00		6.30		1.80		15.07
W080092070WC*	**80.00**		80.00	92.00		12.00	92.20		86.00		7.10		5.00		13.01
W085093050WC*	**85.00**		85.00	93.00		7.00	93.60		86.00		5.30		2.00		13.06

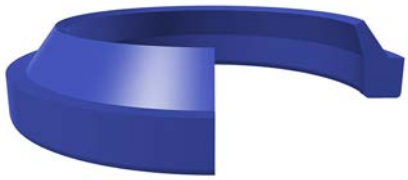
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WC series - NBR 90A

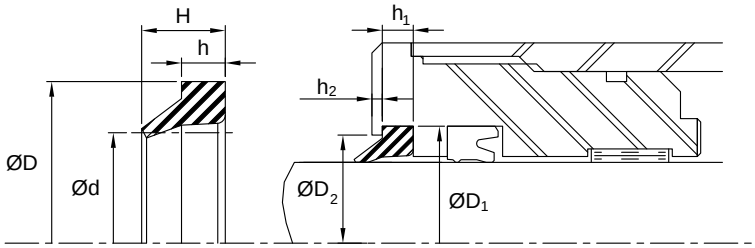
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	$
W085097070WC	**85.00**	+ 0.00 - 0.09	85.00	97.00	12.00		97.20	+ 0.10 - 0.00	91.00	+ 0.15 - 0.00	7.10	+ 0.01 - 0.01	5.00	+ 0.20 - 0.20	11.56
W090098050WC	**90.00**		90.00	98.00	7.00		98.60		93.00		5.30		2.00		11.63
W090100063WC*	**90.00**		90.00	100.00	8.10		100.00		97.00		6.30		1.80		11.71
W090102070WC	**90.00**		90.00	102.00	12.00		102.20		96.00		7.10		5.00		11.88
W090106080WC*	**90.00**		90.00	106.00	12.00		106.00		98.00		8.00		4.00		11.99
W100112070WC	**100.00**		100.00	112.00	12.00		112.20		106.00		7.10		5.00		12.53
W100116080WC*	**100.00**	↓	100.00	116.00	12.00		116.00		108.00		8.00		4.00		15.10
W105117070WC*	**105.00**	+ 0.00 - 0.13	105.00	117.00	12.00		117.20		111.00		7.10		5.00		30.21
W105121080WC*	**105.00**		105.00	121.00	12.00		121.00		113.00		8.00		4.00		22.60
W110122070WC	**110.00**		110.00	122.00	12.00		122.20		116.00		7.10		5.00		17.01
W110125095WC*	**110.00**		110.00	125.00	12.50		125.00		120.00		9.50		3.00		19.50
W120132070WC*	**120.00**		120.00	132.00	12.00		132.20		126.00		7.10		5.00		15.98
W125140095WC*	**125.00**		125.00	140.00	12.50		140.00		135.00		9.50		3.00		18.20
W125140100WC	**125.00**		125.00	140.00	16.00		140.20		132.60		10.10		6.00		15.84
W130142070WC*	**130.00**		130.00	142.00	12.00		142.20		136.00		7.10		5.00		15.09
W135151080WC	**135.00**		135.00	151.00	11.40		151.15		143.15		8.00		4.00		60.42
W140152070WC*	**140.00**		140.00	152.00	12.00		152.20		146.00		7.10		5.00		22.01
W140155095WC	**140.00**		140.00	155.00	12.50		155.00		150.00		9.50		3.00		36.27
W140155100WC*	**140.00**		140.00	155.00	16.00		155.20		147.00		10.10		6.00		20.11
W140156080WC*	**140.00**		140.00	156.00	12.00		156.00		148.00		8.00		4.00		23.60
W145153050WC*	**145.00**		145.00	153.00	7.00		153.60		148.00		5.30		2.00		27.40
W150162070WC*	**150.00**		150.00	162.00	12.00		162.20		156.00		7.10		5.00		29.54
W150165100WC*	**150.00**		150.00	165.00	16.00		165.20		157.60		10.10		6.00		30.21
W150166080WC*	**150.00**		150.00	166.00	12.00		166.00		158.00		8.00		4.00		29.68
W160175095WC*	**160.00**		160.00	175.00	12.50		175.00		170.00		9.50		4.00		31.20
W160175100WC	**160.00**		160.00	175.00	16.00		175.20		168.00		10.10		6.00		22.40
W160176080WC*	**160.00**		160.00	176.00	12.00		176.00		168.00		8.00		4.00		29.70
W165173050WC*	**165.00**		165.00	173.00	7.00		173.60		168.00		5.30		2.00		31.20
W170182070WC*	**170.00**		170.00	182.00	12.00		182.20	↓	176.00		7.10		5.00		23.60
W180200100WC*	**180.00**		180.00	200.00	18.00		200.20	+ 0.13 - 0.00	190.00		10.20		8.00		29.89
W190210100WC*	**190.00**		190.00	210.00	18.00		210.20		200.00		10.20		6.00		30.10
W195210100WC*	**195.00**		195.00	210.00	16.00		210.00		205.00		10.20		4.00		149.61
W200215095WC*	**200.00**		200.00	215.00	12.50		215.00		210.00		9.50		4.00		42.89
W200220100WC*	**200.00**		200.00	220.00	18.00		220.20		210.00		10.20		8.00		23.60
W220240100WC*	**220.00**		220.00	240.00	18.00		240.20		230.00		10.20		6.00		34.71
W220240125WC*	**220.00**		220.00	240.00	16.60		240.00		233.50		12.50		4.10		54.13
W230250100WC*	**230.00**		230.00	250.00	18.00		250.20		240.00		10.20		6.00		39.09
W240260100WC*	**240.00**		240.00	260.00	18.00		260.20		250.00		10.20		6.00		25.56
W250270100WC*	**250.00**		250.00	270.00	18.00		270.20		260.00		10.20		6.00		29.99
W250270125WC*	**250.00**		250.00	270.00	18.00		270.20		260.00		12.50		6.00		53.87
W260280100WC*	**260.00**		260.00	280.00	18.00		280.20		270.00		10.20		6.00		34.60
W270290100WC*	**270.00**		270.00	290.00	18.00		290.20		280.00		10.20		6.00		36.90
W300315100WC*	**300.00**		300.00	315.70	18.00		315.20		305.00		10.20		6.00		64.98
W300320100WC*	**300.00**		300.00	320.00	18.00		320.20		310.00		10.20		6.00		69.20
W320340100WC*	**320.00**		320.00	340.00	18.00		340.20		330.00		10.20		6.00		157.97
W360380100WC*	**360.00**	↓	360.00	380.00	18.00		380.20	↓	370.00	↓	10.20	↓	6.00	↓	181.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WC/U - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane	-22°F to +212°F (-30°C to +100°C)	<2.6 ft/s (0.8 m/s)



The **WC-style** is a popular snap-in wiper style that fits into standard housings. A heavier cross-section insures that it will efficiently wipe most contaminants from the cylinder rod, while remaining stable in the housing. The precision knives-trimmed lip keeps the scraping edge of the wiper in an optimal position for maximum efficiency.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W005012025WC/U*	**5.00**	+ 0.00 - 0.04	5.00	12.00	2.50	4.00	12.00	+ 0.08 - 0.00	9.00	+ 0.08 - 0.00	2.80	+ 0.10 - 0.00	1.20	+ 0.20 - 0.20	2.86
W008014035WC/U*	**8.00**		8.00	14.00	3.50	4.50	14.60		11.00		3.80		0.70		2.86
W008016050WC/U*	**8.00**		8.00	16.00	5.00	8.00	16.00		12.00		5.30		2.70		19.40
W010016035WC/U*	**10.00**		10.00	16.00	3.50	5.00	16.00		12.80		3.80		1.20		3.13
W010018050WC/U*	**10.00**		10.00	18.00	5.00	8.00	18.00		12.40		5.30		2.70		2.86
W012016030WC/U*	**12.00**		12.00	16.00	3.00	4.50	16.20		14.20		3.30		1.20		3.23
W012018034WC/U*	**12.00**		12.00	18.00	3.40	5.50	18.60		14.00		3.70		1.80		2.86
W012018035WC/U	**12.00**		12.00	18.00	3.50	5.00	18.60		15.00		3.80		1.20		2.86
W012020050WC/U*	**12.00**		12.00	20.00	5.00	8.00	20.00		16.00		5.30		2.70		14.31
W014018020WC/U*	**14.00**		14.00	18.00	2.00	3.30	18.60		17.00		2.30		1.00		3.54
W014020035WC/U	**14.00**		14.00	20.00	3.50	5.00	20.60		17.00		3.80		1.20		3.54
W015021035WC/U	**15.00**		15.00	21.00	3.50	5.00	21.80		18.00		3.80		1.20		3.95
W015027050WC/U*	**15.00**		15.00	27.00	5.00	7.00	27.30		18.50		5.30		1.70		3.68
W016022028WC/U	**16.00**		16.00	22.00	2.80	4.00	22.80		19.00		3.10		0.90		3.95
W016022035WC/U*	**16.00**		16.00	22.00	3.50	5.50	22.60		19.00		3.70		1.80		3.27
W016022039WC/U*	**16.00**		16.00	22.00	3.90	5.00	22.60		19.00		3.90		1.10		3.95
W016024050WC/U*	**16.00**		16.00	24.00	5.00	7.00	24.60		19.00		5.30		1.70		3.27
W018024035WC/U	**18.00**		18.00	24.00	3.50	5.00	24.00		20.40		3.80		1.20		3.95
W018024050WC/U*	**18.00**		18.00	24.00	5.00	7.00	24.00		21.00		5.30		1.70		11.05
W018026050WC/U*	**18.00**		18.00	26.00	5.00	7.00	26.60		21.00		5.30		1.70		3.27
W020026032WC/U	**20.00**		20.00	26.00	3.20	4.50	26.00		23.00		3.40		1.10		5.98
W020028050WC/U	**20.00**		20.00	28.00	5.00	7.00	28.60		23.00		5.30		1.70		3.27
W020030050WC/U	**20.00**		20.00	30.00	5.00	7.00	30.00		22.40		5.30		1.70		3.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WC/U series - AU 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W022030020WC/U	**22.00**	+ 0.00 - 0.04	22.00	30.00	2.00	3.50	30.20	+ 0.08 - 0.00	25.00	+ 0.08 - 0.00	2.30	+ 0.10 - 0.00	1.20	+ 0.20 - 0.20	4.22
W022030050WC/U	**22.00**		22.00	30.00	5.00	7.00	30.60		25.00		5.30		1.70		3.68
W024032020WC/U*	**24.00**		24.00	32.00	2.00	3.50	32.00		26.80		2.30		1.20		4.22
W024032050WC/U*	**24.00**		24.00	32.00	5.00	7.00	32.60		27.00		5.30		1.70		3.68
W025030045WC/U*	**25.00**		25.00	30.00	4.50	6.50	30.00		27.20		4.80		1.70		4.09
W025033050WC/U	**25.00**		25.00	33.00	5.00	7.00	33.60		28.00		5.30		1.70		3.68
W025035050WC/U	**25.00**		25.00	35.00	5.00	7.00	35.00		29.80		5.30		1.70		22.77
W027035050WC/U*	**27.00**		27.00	35.00	5.00	7.00	35.00		29.40		5.30		1.70		4.50
W028036050WC/U	**28.00**		28.00	36.00	5.00	7.00	36.60		31.00		5.30		1.70		3.68
W030038050WC/U	**30.00**		30.00	38.00	5.00	7.00	38.60		33.00		5.30		1.70		4.09
W030040028WC/U	**30.00**		30.00	40.00	2.80	4.00	40.20		34.20		3.10		0.90		5.18
W030045050WC/U*	**30.00**		30.00	45.00	5.00	8.00	45.00		35.40		5.30		2.70		4.90
W032040035WC/U	**32.00**		32.00	40.00	3.50	5.00	40.20		35.00		3.80		1.20		5.04
W032040050WC/842*	**32.00**		32.00	40.00	5.00	8.00	40.00	+0.16/-0.00	37.50	+0.16/-0.00	5.30	+0.20/-0.00	1.50		22.44
W032040050WC/U	**32.00**		32.00	40.00	5.00	7.00	40.60	+ 0.08 - 0.00	35.00	+ 0.08 - 0.00	5.30	+ 0.10 - 0.00	1.70		4.09
W033042050WC/U*	**33.00**		33.00	42.00	5.00	7.00	42.00		35.40		5.30		1.70		4.09
W035040035WC/U*	**35.00**		35.00	40.00	3.50	5.00	40.20		38.00		3.80		1.20		4.63
W035043050WC/U	**35.00**		35.00	43.00	5.00	7.00	43.60		38.00		5.30		1.70		4.09
W036044050WC/U	**36.00**		36.00	44.00	5.00	7.00	44.60		39.00		5.30		1.70		4.09
W038046050WC/U	**38.00**		38.00	46.00	5.00	7.00	46.60		41.00		5.30		1.70		4.09
W040048040WC/U*	**40.00**	+ 0.00 - 0.05	40.00	48.00	4.00	7.00	48.60		43.00		4.30		2.70		5.86
W040048050WC/U	**40.00**		40.00	48.00	5.00	7.00	48.60		43.00		5.30		1.70		4.90
W040050050WC/U*	**40.00**		40.00	50.00	5.00	7.00	50.60		43.00		5.30		1.70		5.86
W040052050WC/U*	**40.00**		40.00	52.00	5.00	8.00	52.20		46.00		5.30		2.70		6.54
W042050050WC/U*	**42.00**		42.00	50.00	5.00	7.00	50.60		45.00		5.30		1.70		4.90
W045053050WC/U	**45.00**		45.00	53.00	5.00	7.00	53.60		48.00		5.30		1.70		4.90
W045055050WC/U	**45.00**		45.00	55.00	5.00	7.00	55.60		48.00		5.30		1.70		4.90
W045060040WC/U*	**45.00**		45.00	60.00	4.00	6.00	60.00		52.40		4.30		1.70		5.59
W046054050WC/U*	**46.00**		46.00	54.00	5.00	7.00	54.00		48.40		5.30		1.70		5.18
W047055050WC/U*	**47.00**		47.00	55.00	5.00	7.00	55.60		50.00		5.30		1.70		11.37
W048056050WC/U*	**48.00**		48.00	56.00	5.00	7.00	56.60		51.00		5.30		1.70		5.45
W050058040WC/U	**50.00**		50.00	58.00	4.00	6.00	58.60		53.00		4.30		1.70		6.54
W050058050WC/U	**50.00**		50.00	58.00	5.00	7.00	58.60		53.00		5.30		1.70		5.45
W050060050WC/U	**50.00**		50.00	60.00	5.00	7.00	60.60		53.00		5.30		1.70		6.27
W050062050WC/U*	**50.00**		50.00	62.00	5.00	7.00	62.00		55.00		5.30		1.70		7.08
W050062060WC/U*	**50.00**		50.00	62.00	6.00	7.00	62.00		55.00		6.30		1.70		7.23
W050065040WC/U*	**50.00**		50.00	65.00	4.00	6.00	65.60		53.20		4.30		1.70		7.49
W053061050WC/U	**53.00**		53.00	61.00	5.00	7.00	61.60		56.20		5.30		1.70		7.74
W055063050WC/U	**55.00**		55.00	63.00	5.00	7.00	63.60		58.00		5.30		1.70		7.36
W055065050WC/U	**55.00**		55.00	65.00	5.00	7.00	65.60		58.00		5.30		1.70		7.98
W055067070WC/U*	**55.00**		55.00	67.00	7.00	12.00	67.20		61.00		7.20		4.80		7.49
W056064050WC/U	**56.00**		56.00	64.00	5.00	7.00	64.60		59.00		5.30		1.70		12.91
W056066050WC/U	**56.00**		56.00	66.00	5.00	7.00	66.60		59.00		5.30		1.70		6.27
W056066060WC/U	**56.00**		56.00	66.00	6.00	9.00	66.00		60.00		6.30		2.70		24.65
W057069060WC/U*	**57.00**		57.00	69.00	6.00	9.52	69.85		63.85		6.35		3.17		7.49
W058068050WC/U*	**58.00**		58.00	68.00	5.00	7.00	68.60		61.00		5.30		1.70		7.22

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W060068050WC/U	**60.00**	+ 0.00 - 0.05	60.00	68.00	5.00	7.00	68.60	+ 0.08 - 0.00	63.00	+ 0.08 - 0.00	5.30	+ 0.10 - 0.00	1.70	+ 0.20 - 0.20	12.21
W060070050WC/U	**60.00**		60.00	70.00	5.00	7.00	70.60		63.00		5.30		1.70		6.27
W060070060WC/U	**60.00**		60.00	70.00	6.00	10.00	70.60		63.00		6.30		3.70		7.49
W060070070WC/U	**60.00**		60.00	70.00	7.00	10.00	70.30		63.00		7.20		2.80		18.20
W061069050WC/U*	**61.00**		61.00	69.00	5.00	7.00	69.60		64.00		5.30		1.70		7.49
W063071050WC/U	**63.00**		63.00	71.00	5.00	7.00	71.60		66.00		5.30		1.70		6.27
W063073050WC/U	**63.00**		63.00	73.00	5.00	7.00	73.60		66.00		5.30		1.70		6.18
W063073060WC/U	**63.00**		63.00	73.00	6.00	9.00	73.00		67.00		6.30		2.70		25.30
W065073050WC/U	**65.00**	+ 0.00 - 0.06	65.00	73.00	5.00	7.00	73.60		68.00		5.30		1.70		6.27
W065075050WC/U	**65.00**		65.00	75.00	5.00	7.00	75.60		68.00		5.30		1.70		6.27
W065075060WC/U	**65.00**		65.00	75.00	6.00	9.00	75.00		72.00		6.30		2.70		27.50
W065077070WC/U*	**65.00**		65.00	77.00	7.00	12.00	77.20		71.00		7.20		4.80		7.90
W068076050WC/U*	**68.00**		68.00	76.00	5.00	7.00	76.60		71.00		5.30		1.70		6.27
W070078040WC/U*	**70.00**		70.00	78.00	4.00	6.00	78.00		73.00		4.30		1.70		14.97
W070078050WC/U	**70.00**		70.00	78.00	5.00	7.00	78.60	+ 0.10 - 0.00	73.00		5.30		1.70		6.27
W070080050WC/U	**70.00**		70.00	80.00	5.00	7.00	80.60		73.00		5.30		1.70		6.27
W070080060WC/U	**70.00**		70.00	80.00	6.00	10.00	80.00		77.00		6.30		3.70		21.64
W070080063WC/U*	**70.00**		70.00	80.00	6.30	8.00	80.00		74.80	+ 0.10 - 0.00	6.80		1.20		6.27
W070080070WC/U*	**70.00**		70.00	80.00	7.00	10.00	80.60		73.00		7.20		2.80		7.49
W070082060WC/U*	**70.00**		70.00	82.00	6.00	9.00	82.00		76.00		6.30		2.70		98.70
W070082070WC/U	**70.00**		70.00	82.00	7.00	12.00	82.60		76.00		7.20		4.80		9.54
W073081050WC/U	**73.00**		73.00	81.00	5.00	7.00	81.60		76.00		5.30		1.70		9.36
W073083070WC/U*	**73.00**		73.00	83.00	7.00	12.00	83.60		76.20		7.30		4.70		9.98
W073083071WC/U*	**73.00**		73.00	83.00	7.10	12.00	83.60		76.20		7.30		4.70		10.04
W074082050WC/U*	**74.00**		74.00	82.00	5.00	7.00	82.00		76.60		5.30		1.70		12.51
W075083050WC/U	**75.00**		75.00	83.00	5.00	7.00	83.20		78.00		5.30		1.70		14.74
W075085060WC/U	**75.00**		75.00	85.00	6.00	9.00	85.00		79.80		6.30		2.00		23.85
W075085063WC/U*	**75.00**		75.00	85.00	6.30	8.00	85.00		79.80		6.80		1.20		13.61
W075087070WC/U	**75.00**		75.00	87.00	7.00	12.00	87.20		81.00		7.20		4.80		14.97
W076084050WC/U*	**76.00**		76.00	84.00	5.00	7.00	84.60		79.00		5.30		1.70		15.00
W078086050WC/U*	**78.00**		78.00	86.00	5.00	7.00	86.00		81.00		5.30		1.70		15.24
W078092070WC/U*	**78.00**		78.00	92.00	7.00	12.00	92.20		85.00		7.30		4.70		15.74
W080088050WC/U	**80.00**	+ 0.00 - 0.09	80.00	88.00	5.00	7.00	88.60		83.00		5.30		1.70		16.01
W080090060WC/U	**80.00**		80.00	90.00	6.00	9.00	90.20		83.00		6.30		2.70		9.24
W080090063WC/U*	**80.00**		80.00	90.00	6.30	8.00	90.00		84.80		6.80		1.20		12.88
W080091073WC/U*	**80.00**		80.00	91.00	7.30	11.00	91.00		85.00		7.50		3.50		33.23
W080092070WC/U	**80.00**		80.00	92.00	7.00	12.00	92.20		86.00		7.20		4.80		15.21
W085093050WC/U	**85.00**		85.00	93.00	5.00	7.00	93.60		88.00		5.30		1.70		16.88
W085095050WC/U*	**85.00**		85.00	95.00	5.00	7.00	95.00		87.40		5.30		1.70		15.21
W085095063WC/U*	**85.00**		85.00	95.00	6.30	8.00	95.00		89.80		6.80		1.20		14.67
W085097070WC/U	**85.00**		85.00	97.00	7.00	12.00	97.20		91.00		7.20		4.80		7.77
W085098073WC/U	**85.00**		85.00	98.00	7.30	11.00	98.00		92.00		7.50		3.50		33.82
W088096050WC/U*	**88.00**		88.00	98.00	5.00	7.00	96.60		91.00		5.30		1.70		18.21
W088100070WC/U*	**88.00**		88.00	100.00	7.00	12.00	100.20		94.00		7.30		4.70		34.33
W090098050WC/U	**90.00**		90.00	98.00	5.00	7.00	98.60		93.00		5.30		1.70		16.99
W090100060WC/U	**90.00**		90.00	100.00	6.00	9.00	100.00		96.80		6.30		2.70		18.25

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WC/U series - AU 90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W090100063WC/U-PU5	**90.00**	+ 0.00 - 0.09	90.00	100.00	6.30	8.00	100.00	+ 0.10 - 0.00	94.80	+ 0.10 - 0.00	6.80	+ 0.10 - 0.00	1.20	+ 0.20 - 0.20	19.01
W090102058WC/U*	**90.00**		90.00	102.00	5.80	8.00	102.00		94.00		6.00		2.00		18.64
W090102070WC/U	**90.00**		90.00	102.00	7.00	12.00	102.20		96.00		7.20		4.80		11.23
W091099050WC/U*	**91.00**		91.00	99.00	5.00	7.00	99.60		94.00		5.30		1.70		16.28
W095103050WC/U*	**95.00**		95.00	103.00	5.00	7.00	103.60		98.00		5.30		1.70		16.72
W095105060WC/U	**95.00**		95.00	105.00	6.00	8.00	105.20		97.60		6.35		1.65		17.82
W095107070WC/U	**95.00**		95.00	107.00	7.00	12.00	107.20		101.00		7.20		4.80		18.21
W097105050WC/U*	**97.00**		97.00	105.00	5.00	7.00	105.00		100.00		5.30		1.70		19.01
W100108050WC/U	**100.00**		100.00	108.00	5.00	7.00	108.60		103.00		5.30		1.70		19.26
W100110050WC/U	**100.00**		100.00	110.00	5.00	7.00	110.60		104.00		5.30		1.70		19.74
W100110063WC/U*	**100.00**		100.00	110.00	6.30	8.00	110.00		104.80		6.80		1.20		20.00
W100112058WC/U	**100.00**		100.00	112.00	5.80	8.00	112.20		106.00		6.00		2.00		20.24
W100112070WC/U	**100.00**		100.00	112.00	7.00	12.00	112.20		106.00		7.20		4.80		20.56
W100115092WC/U*	**100.00**		100.00	115.00	9.20	13.00	115.20		108.00		9.50		3.50		20.94
W100115095WC/U	**100.00**		100.00	115.00	9.50	13.00	115.20		108.00		9.50		3.50		33.60
W104112050WC/U*	**104.00**	+ 0.00 - 0.13	104.00	112.00	5.00	7.00	112.00		106.60		5.30		1.70		24.88
W105113050WC/U	**105.00**		105.00	113.00	5.00	7.00	113.60		108.00		5.30		1.70		31.60
W105117070WC/U	**105.00**		105.00	117.00	7.00	12.00	117.20		111.00		7.20		4.80		26.45
W105120070WC/U*	**105.00**		105.00	120.00	7.00	9.50	120.40		112.40		7.20		2.00		26.54
W105120072WC/U*	**105.00**		105.00	120.00	7.00	9.50	120.40		112.40		7.20		2.00		11.99
W106118057WC/U*	**106.00**		106.00	118.00	5.70	9.00	118.00		113.40		6.00		3.00		12.26
W107115050WC/U*	**107.00**		107.00	115.00	5.00	7.00	115.60		110.30		5.30		1.70		9.40
W110118050WC/U*	**110.00**		110.00	118.00	5.00	7.00	118.60		113.00		5.30		1.70		29.00
W110122070WC/U	**110.00**		110.00	122.00	7.00	12.00	122.20		116.00		7.20		4.80		9.13
W110122070WC/U-T831*	**110.00**		110.00	122.00	7.00	12.00	122.20		116.00		7.20		4.80		38.05
W110125092WC/U	**110.00**		110.00	125.00	9.20	13.00	125.20		118.00		9.50		3.50		12.40
W112124070WC/U*	**112.00**		112.00	124.00	7.00	12.00	124.20		118.00		7.30		4.70		9.81
W113125070WC/U*	**113.00**		113.00	125.00	7.00	12.00	125.00		118.40		7.30		4.70		9.81
W115123050WC/U*	**115.00**		115.00	123.00	5.00	7.00	123.20		118.00		5.30		1.70		10.35
W115127070WC/U*	**115.00**		115.00	127.00	7.00	12.00	127.20		121.00		7.20		4.80		10.35
W115127072WC/U	**115.00**		115.00	127.00	7.20	12.00	127.00		121.00		7.50		4.50		0.00
W118126047WC/U*	**118.00**		118.00	126.00	4.70	7.00	126.00		121.00		5.00		2.00		10.76
W118126050WC/U*	**118.00**		118.00	126.00	5.00	7.00	126.00		121.00		5.30		1.70		0.00
W120128050WC/U	**120.00**		120.00	128.00	5.00	7.00	128.60		123.00		5.30		1.70		12.26
W120130050WC/U*	**120.00**		120.00	130.00	5.00	7.00	130.00		122.40		5.30		1.70		25.00
W120130053WC/U	**120.00**		120.00	130.00	5.30	7.20	130.00		122.40		5.50		1.70		11.21
W120132070WC/U	**120.00**		120.00	132.00	7.00	12.00	132.20		126.00		7.20		4.80		10.90
W120135090WC/U	**120.00**		120.00	135.00	9.00	14.00	135.00		130.00		9.30		4.70		55.62
W123131050WC/U*	**123.00**		123.00	131.00	5.00	7.00	131.00		125.40		5.30		1.70		12.26
W125133050WC/U	**125.00**		125.00	133.00	5.00	7.00	133.60		128.00		5.30		1.70		11.31
W125137070WC/U	**125.00**		125.00	137.00	7.00	12.00	137.60		131.00		7.20		4.80		19.40
W125138070WC/U*	**125.00**		125.00	138.00	7.00	12.00	137.60		131.80		7.20		4.70		11.31
W125140090WC/U	**125.00**		125.00	140.00	9.00	15.00	140.00		132.40		9.30		5.70		11.44
W125140100WC/U	**125.00**		125.00	140.00	10.00	16.00	140.00		132.50		10.20		5.80		12.13
W126134050WC/U*	**126.00**		126.00	134.00	5.00	7.00	134.60		129.60		5.30		1.70		11.44
W127146092WC/U*	**127.00**		127.00	146.00	9.20	12.70	146.05		139.52		9.52		3.18		15.40

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Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W128140070WC/U*	**128.00**	+ 0.00 - 0.13	128.00	140.00	7.00	12.00	140.20	+ 0.10 - 0.00	134.00	+ 0.10 - 0.00	7.30	+ 0.10 - 0.00	4.70	+ 0.20 - 0.20	12.81
W128143070WC/U*	**128.00**		128.00	143.00	7.00	12.00	143.40		138.00		7.30		4.70		26.84
W128143092WC/U*	**128.00**		128.00	143.00	9.20	12.00	143.00		138.00		9.50		4.50		43.41
W130142070WC/U	**130.00**		130.00	142.00	7.00	12.00	142.60		136.00		7.20		4.80		12.81
W130145100WC/U*	**130.00**		130.00	145.00	10.00	16.00	145.00		139.00		10.20		5.80		16.99
W132144070WC/U*	**132.00**		132.00	144.00	7.00	12.00	144.20		138.00		7.20		4.80		63.13
W135147070WC/U	**135.00**		135.00	147.00	7.00	12.00	147.00		141.00		7.20		4.80		13.22
W135150092WC/U*	**135.00**		135.00	150.00	9.00	14.00	150.00		145.00		9.30		4.70		65.87
W135150095WC/U*	**135.00**		135.00	150.00	9.50	14.00	150.00		145.00		9.70		4.30		48.05
W140148050WC/U	**140.00**		140.00	148.00	5.00	7.00	148.60		142.80		5.30		1.70		13.62
W140148058WC/U*	**140.00**		140.00	148.00	5.80	8.00	148.60		143.00		6.00		2.00		13.62
W140151050WC/U*	**140.00**		140.00	151.00	5.00	7.00	151.00		O/R		5.30		1.70		110.97
W140152070WC/U	**140.00**		140.00	152.00	7.00	12.00	152.20		146.00		7.30		4.70		13.62
W140152072WC/U-38	**140.00**		140.00	152.00	7.20	12.00	152.20		146.00		7.70		4.30		16.21
W140153070WC/U*	**140.00**		140.00	153.00	7.00	12.00	153.00		146.80		7.20		4.70		15.67
W140155087WC/U*	**140.00**		140.00	155.00	8.70	12.00	155.00		147.40		9.00		3.00		15.67
W140155090WC/U*	**140.00**		140.00	155.00	9.00	14.00	155.00		147.00		9.20		4.80		19.99
W140155092WC/U*	**140.00**		140.00	155.00	9.20	12.00	155.00		147.00		9.50		4.50		68.46
W140155100WC/U	**140.00**		140.00	155.00	10.00	16.00	155.00		147.50		10.20		5.80		13.62
W141151053WC/U*	**141.00**		141.00	151.00	5.30	7.00	151.60		147.50		5.50		1.50		14.53
W142149040WC/U*	**142.00**		142.00	149.00	4.00	6.00	149.00		145.60		4.30		1.00		15.94
W142150050WC/U*	**142.00**		142.00	150.00	5.00	7.00	150.70		146.10		5.30		1.70		15.94
W142154070WC/U*	**142.00**		142.00	154.00	7.00	12.00	154.00		147.40		7.30		4.70		13.62
W143151050WC/U*	**143.00**		143.00	151.00	5.00	7.00	151.00		146.00		5.30		1.70		15.61
W143151053WC/U*	**143.00**		143.00	151.00	5.30	7.00	151.00		146.00		5.50		1.50		15.94
W145153050WC/U*	**145.00**		145.00	153.00	5.00	7.00	153.60		148.00		5.30		1.70		16.35
W145157070WC/U*	**145.00**		145.00	157.00	7.00	12.00	157.20		151.00		7.30		4.70		14.99
W145160090WC/U*	**145.00**		145.00	160.00	9.00	16.00	160.20		152.60		9.30		6.70		14.17
W150162070WC/U	**150.00**		150.00	162.00	7.00	12.00	162.00		156.00		7.20		4.80		16.21
W150165070WC/U*	**150.00**		150.00	165.00	7.00	12.00	165.00		156.00		7.20		4.80		76.31
W150165100WC/U	**150.00**		150.00	165.00	10.00	16.00	165.00		157.50		10.20		5.80		16.76
W150165100WC/U-38	**150.00**		150.00	165.00	10.00	16.00	165.00		157.60		10.20		5.80		18.21
W152167070WC/U*	**152.00**		152.00	167.00	7.00	12.00	167.40		O/R		7.30		4.70		20.45
W155163050WC/U*	**155.00**		155.00	163.00	5.00	7.00	163.00		160.50		5.20		1.80		78.46
W155167070WC/U*	**155.00**		155.00	167.00	7.00	12.00	167.20		161.00		7.30		4.70		14.44
W155169063WC/U*	**155.00**		155.00	169.00	6.30	10.00	169.60		160.60		6.80		3.20		20.98
W155175100WC/U*	**155.00**		155.00	170.00	10.00	16.00	170.00		162.50		10.20		5.80		16.76
W160168050WC/U	**160.00**		160.00	168.00	5.00	7.00	168.00		162.40		5.30		1.70		22.34
W160172070WC/U	**160.00**		160.00	172.00	7.00	12.00	172.00		166.00		7.20		4.80		22.34
W160175090WC/U	**160.00**		160.00	175.00	9.00	16.00	175.00		167.40		9.30		6.70		59.60
W160175092WC/U*	**160.00**		160.00	175.00	9.20	13.00	175.00		167.40		9.50		3.50		22.34
W160175100WC/U	**160.00**		160.00	175.00	10.00	16.00	175.00	+ 0.13 - 0.00	167.50	+0.13/-0.00	10.20		5.80		22.34
W163175070WC/U	**163.00**		163.00	175.00	7.00	12.00	175.80		169.00	+ 0.10 - 0.00	7.30		4.70		22.48
W165180090WC/U*	**165.00**		165.00	180.00	9.00	16.00	180.00		175.00		9.30		6.70		61.20
W165180092WC/U*	**165.00**		165.00	180.00	9.20	14.00	180.00		175.00		9.50		4.50		82.27
W170180050WC/U*	**170.00**		170.00	180.00	5.00	7.00	180.60		174.00	+0.13/-0.00	5.30		1.70		62.12

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WC/U series - AU 90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W170182072WC/U	**170.00**	+ 0.00 - 0.13	170.00	182.00	7.00	12.00	182.20	+ 0.13 - 0.00	176.00	+0.13/-0.00	7.20	+ 0.10 - 0.00	4.80	+ 0.20 - 0.20	29.99
W170182100WC/U*	**170.00**		170.00	182.00	10.00	16.00	182.00		176.00	+0.10/-0.00	10.30		5.70		28.88
W170185042WC/U*	**170.00**		170.00	185.00	4.20	9.00	185.00		178.00	+ 0.13 - 0.00	4.20		9.00		164.82
W170185092WC/U*	**170.00**		170.00	185.00	9.20	13.00	185.00		180.00		9.50		3.50		62.12
W170185100WC/U*	**170.00**		170.00	185.00	10.00	16.00	185.00		177.50		10.20		5.80		29.97
W170189090WC/U*	**170.00**		170.00	189.00	9.00	14.00	189.00		O/R		9.30		4.70		255.56
W171186100WC/U*	**171.00**		171.00	186.00	10.00	16.00	186.20		178.60		10.30		5.70		37.88
W172184070WC/U*	**172.00**		172.00	184.00	7.00	12.00	184.00		177.40		7.30		4.70		28.88
W175185072WC/U*	**175.00**		175.00	185.00	7.20	12.00	175.00		180.00		7.50		4.50		37.49
W177192090WC/U*	**177.00**		177.00	192.00	9.00	14.00	192.00		187.00		9.30		4.50		61.23
W177192092WC/U*	**177.00**		177.00	192.00	9.20	14.00	192.00		187.00		9.50		4.50		83.94
W180188050WC/U*	**180.00**		180.00	188.00	5.00	7.00	188.00		182.40		5.30		1.70		30.25
W180195042WC/U	**180.00**		180.00	195.00	4.20	9.00	195.00		190.00		4.50		4.50		140.25
W180195070WC/U*	**180.00**		180.00	195.00	7.00	12.00	195.40		O/R		7.30		4.70		57.12
W180195090WC/U	**180.00**		180.00	195.00	9.00	16.00	195.00		190.00		9.30		4.50		61.55
W180195092WC/U*	**180.00**		180.00	195.00	9.20	14.00	195.00		189.80		9.50		4.50		34.47
W180195100WC/U	**180.00**		180.00	195.00	10.00	16.00	195.00		188.00		10.20		5.80		23.96
W180199090WC/U	**180.00**		180.00	199.00	9.00	16.00	199.00		O/R		9.30		6.70		177.14
W180200100WC/U	**180.00**		180.00	200.00	10.00	18.00	200.00		190.00		10.20		7.80		34.47
W185193050WC/U*	**185.00**		185.00	193.00	5.00	7.00	193.00		188.00		5.30		1.70		36.96
W185197070WC/U*	**185.00**		185.00	197.00	7.00	12.00	197.00		191.00		7.20		4.80		34.47
W188200070WC/U*	**188.00**		188.00	200.00	7.00	12.00	200.20		194.00		7.20		4.80		56.48
W190205100WC/U	**190.00**		190.00	205.00	10.00	16.00	205.20		198.00		10.20		5.80		58.71
W190210100WC/U	**190.00**		190.00	210.00	10.00	18.00	210.00		199.00		10.20		7.80		38.42
W195210090WC/U*	**195.00**		195.00	210.00	9.00	16.00	210.00		202.50		9.30		6.70		38.42
W195210100WC/U*	**195.00**		195.00	210.00	10.00	16.00	210.00		202.50		10.20		5.80		87.84
W200208050WC/U*	**200.00**		200.00	208.00	5.00	7.00	208.60		203.00		5.30		1.70		90.08
W200210072WC/U*	**200.00**		200.00	210.00	7.20	12.00	210.00		O/R		7.50		4.50		68.27
W200215093WC/U	**200.00**		200.00	215.00	9.30	12.30	215.00		207.40		9.60		2.70		81.17
W200215100WC/U	**200.00**		200.00	215.00	10.00	16.00	215.00		207.40		10.20		5.80		81.17
W200219090WC/U*	**200.00**		200.00	219.00	9.00	16.00	219.00		O/R		9.30		6.70		108.22
W200220100WC/U	**200.00**		200.00	220.00	10.00	18.00	220.00		210.00		10.20		7.80		102.60
W205220090WC/U*	**205.00**		205.00	220.00	9.00	16.00	220.00		215.00		9.30		4.50		70.37
W205220093WC/U*	**205.00**		205.00	220.00	9.30	14.00	220.00		215.00		9.50		4.50		96.49
W210225100WC/U*	**210.00**		210.00	225.00	10.00	16.00	225.00		217.60		10.20		5.80		48.37
W210226078WC/U*	**210.00**		210.00	226.00	7.80	12.00	226.00		221.00		8.10		4.00		72.50
W210226087WC/U*	**210.00**		210.00	226.00	8.70	12.00	226.00		221.00		9.00		3.00		97.46
W210230100WC/U	**210.00**		210.00	230.00	10.00	18.00	230.00		220.00		10.20		7.80		99.00
W212224070WC/U*	**212.00**		212.00	224.00	7.00	12.00	224.00		219.00		7.20		4.80		48.37
W212227070WC/U*	**212.00**		212.00	227.00	7.00	12.00	227.40		O/R		7.30		4.70		96.13
W212232120WC/U*	**212.00**		212.00	232.00	12.00	18.00	232.00		225.50		12.50		5.50		108.17
W215237100WC/U*	**215.00**		215.00	237.00	10.00	18.00	237.00		225.40		10.30		7.70		41.83
W220235100WC/U	**220.00**		220.00	235.00	10.00	18.00	235.00		227.60		10.20		7.80		54.91
W220239090WC/U*	**220.00**		220.00	239.00	9.00	12.00	239.00		O/R		9.30		2.70		0.00
W220240100WC/U*	**220.00**		220.00	240.00	10.00	16.00	240.00		227.60		10.20		5.80		65.94
W220240120WC/U	**220.00**		220.00	240.00	12.00	18.00	240.00		233.50		12.50		5.50		124.70

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W225240090WC/U*	**225.00**	+ 0.00 - 0.13	225.00	240.00	9.00	12.00	240.00	+ 0.13 - 0.00	233.50	+ 0.13 - 0.00	9.30	+ 0.10 - 0.00	2.70	+ 0.20 - 0.20	101.20
W225240092WC/U*	**225.00**		225.00	240.00	9.20	14.00	240.00		235.00		9.50		4.50		128.18
W225245100WC/U*	**225.00**		225.00	245.00	10.00	18.00	245.00		235.00		10.20		7.80		130.37
W230238050WC/U*	**230.00**		230.00	238.00	5.00	7.00	238.60		233.00		5.30		1.70		130.60
W230245100WC/U*	**230.00**		230.00	245.00	10.00	16.00	245.00		240.00		10.20		5.80		130.13
W230246072WC/U*	**230.00**		230.00	246.00	7.20	12.00	246.00		240.70		7.50		4.50		131.85
W230246073WC/U*	**230.00**		230.00	246.00	7.30	12.00	246.00		240.70		7.60		4.40		99.60
W230250100WC/U*	**230.00**		230.00	250.00	10.00	18.00	250.00		240.00		10.20		7.80		67.58
W235255100WC/U*	**235.00**		235.00	255.00	10.00	18.00	255.00		245.00		10.20		7.80		135.62
W240255100WC/U*	**240.00**		240.00	255.00	10.00	16.00	255.20		248.00		10.30		5.70		63.35
W240260092WC/U*	**240.00**		240.00	260.00	9.20	12.20	260.00		O/R		9.50		2.50		141.42
W240260100WC/U*	**240.00**		240.00	260.00	10.00	18.00	260.00		250.00		10.20		7.80		138.47
W240260120WC/U*	**240.00**		240.00	260.00	12.00	18.00	260.00		253.50		12.50		5.50		139.47
W245265120WC/U*	**245.00**		245.00	265.00	12.00	18.00	265.00		258.50		12.50		5.50		139.86
W250265100WC/U*	**250.00**		250.00	265.00	10.00	16.00	265.20		258.00		10.20		5.80		117.10
W250270100WC/U*	**250.00**		250.00	270.00	10.00	18.00	270.00		260.00		10.20		7.80		139.86
W250270120WC/U*	**250.00**		250.00	270.00	12.00	18.00	270.00		263.50		12.50		5.50		139.96
W255270092WC/U*	**255.00**		255.00	270.00	9.20	12.20	270.00		265.00		9.50		2.50		128.26
W257267053WC/U*	**257.00**		257.00	267.00	5.30	7.00	267.60		264.00		5.50		1.50		112.24
W260275092WC/U*	**260.00**		260.00	275.00	9.20	14.00	275.00		270.00		9.50		4.50		49.59
W260275095WC/U*	**260.00**		260.00	275.00	9.50	14.00	275.00		270.00		9.80		4.20		102.53
W260280100WC/U*	**260.00**		260.00	280.00	10.00	18.00	280.00		270.50		10.20		7.80		161.34
W265280100WC/U*	**265.00**		265.00	280.00	10.00	16.00	280.00		272.60		10.20		5.80		164.14
W265285100WC/U*	**265.00**		265.00	285.00	10.00	15.00	285.00		275.00		10.20		4.80		166.15
W270278050WC/U*	**270.00**		270.00	278.00	5.00	7.00	278.60		273.00		5.30		1.70		167.88
W270285100WC/U*	**270.00**		270.00	285.00	10.00	16.00	285.50		278.00		10.20		5.80		105.85
W270286072WC/U*	**270.00**		270.00	286.00	7.20	12.00	286.00		280.70		7.50		4.50		159.60
W270290100WC/U*	**270.00**		270.00	290.00	10.00	16.00	290.00		280.00		10.20		5.80		500.40
W280295092WC/U*	**280.00**		280.00	295.00	9.20	14.00	295.00		290.00		9.50		4.50		146.71
W280300100WC/U*	**280.00**		280.00	300.00	10.00	18.00	300.00		290.00		10.30		7.70		70.71
W285300092WC/U*	**285.00**		285.00	300.00	9.20	14.00	300.00		295.00		9.50		4.50		188.86
W285305120WC/U*	**285.00**		285.00	305.00	12.00	18.00	305.00		298.50		12.50		5.50		192.38
W288308100WC/U*	**288.00**		288.00	308.00	10.00	15.00	308.00		301.50		10.20		4.80		199.49
W290302070WC/U*	**290.00**		290.00	302.00	7.00	12.00	302.00		O/R		7.30		4.70		261.59
W290302100WC/U*	**290.00**		290.00	302.00	10.00	16.00	302.00		O/R		10.30		5.70		266.32
W290310120WC/U*	**290.00**		290.00	310.00	12.00	18.00	310.00		303.50		12.50		5.50		201.53
W295315120WC/U*	**295.00**		295.00	315.00	12.00	18.00	315.00		308.50		12.50		5.50		208.26
W300316073WC/U*	**300.00**		300.00	316.00	7.30	12.00	316.00		310.70		7.50		4.50		204.91
W300320120WC/U*	**300.00**		300.00	320.00	12.00	18.00	320.00		313.50		12.50		5.50		218.00
W305325120WC/U*	**305.00**		305.00	325.00	12.00	18.00	325.00		318.50		12.50		5.50		180.27
W320340100WC/U*	**320.00**		320.00	340.00	10.00	18.00	340.00		330.00		10.20		7.80		266.64
W330346072WC/U*	**330.00**		330.00	346.00	7.20	12.00	346.00		340.70		7.50		4.50		237.23
W335355100W/CU*	**335.00**		335.00	355.00	10.00	18.00	355.00		345.00		10.20		7.80		251.74
W340360100WC/U*	**340.00**		340.00	360.00	10.00	18.00	360.00		350.00		10.20		7.80		274.50
W345369100WC/U*	**345.00**		345.00	369.00	10.00	16.00	369.00		O/R		10.20		5.80		276.12
W350370100WC/U*	**350.00**		350.00	370.00	10.00	18.00	370.00		360.00		10.20		7.80		277.53

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WC/U series - AU 90A

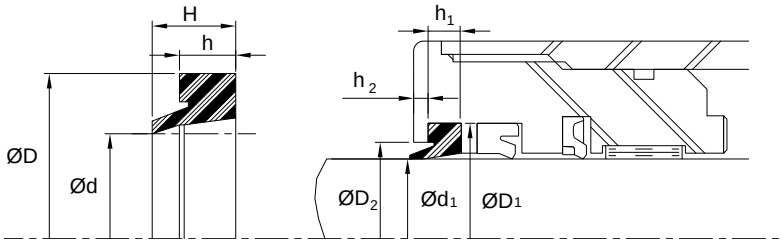
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W355375100WC/U*	**355.00**	+ 0.00 - 0.13	355.00	375.00	10.00	18.00	375.00	+ 0.13 - 0.00	365.00	+ 0.13 - 0.00	10.20	+ 0.10 - 0.00	7.80	+ 0.20 - 0.20	251.72
W360380100WC/U*	**360.00**		360.00	380.00	10.00	18.00	380.00		370.00		10.20		7.80		285.79
W370390100WC/U*	**370.00**		370.00	390.00	10.00	18.00	390.00		380.00		10.20		7.80		287.07
W370390120WC/U*	**370.00**		370.00	390.00	12.00	18.00	390.00		383.50		12.50		5.50		160.96
W380395090WC/U	**380.00**		380.00	395.00	9.20	16.00	395.00		388.11		9.50		4.50		584.03
W380400100WC/U*	**380.00**		380.00	400.00	10.00	18.00	400.00		390.00		10.20		7.80		69.08
W380400120WC/U*	**380.00**		380.00	400.00	12.00	18.00	400.00		393.50		12.50		5.50		336.96
W400420100WC/U*	**400.00**		400.00	420.00	10.00	18.00	420.00		410.00		10.20		7.80		298.76
W455475100WC/U*	**455.00**		455.00	275.00	10.00	18.00	475.00		465.00		10.20		7.80		321.79

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range	Surface Speed
Polyurethane	-22°F to +212°F (-30°C to +100°C)	<3.3 ft/s (1 m/s)



Similar in design to the **WC-style**, the **WF-style** design has the added interference on the outside diameter to prevent contamination into the cylinder via the static side of the groove.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W010018045WF*	**10.00**	+ 0.00 - 0.04	10.00	18.00	4.50	6.00	18.00	+0.07/- 0.00	14.00	+ 0.10 - 0.10	5.00	+ 0.30 - 0.00	2.00	+ 0.20 - 0.20	6.10
W011019045WF*	**11.20**		11.20	19.20	4.50	6.00	19.20	+ 0.08 - 0.00	15.20		5.00		2.00		10.12
W012020045WF*	**12.50**		12.50	20.50	4.50	6.00	20.50		16.50		5.00		2.00		6.10
W014019020WF*	**14.00**		14.00	19.00	2.00	3.20	19.00		17.00		3.00		2.00		6.10
W014022045WF*	**14.00**		14.00	22.00	4.50	6.00	22.00		18.00		5.00		2.00		6.10
W015023045WF*	**15.00**		15.00	23.00	4.50	6.00	23.00		19.00		5.00		2.00		6.10
W016024045WF*	**16.00**		16.00	24.00	4.50	6.00	24.00		20.30		5.00		2.00		6.10
W018026045WF*	**18.00**		18.00	26.00	4.50	6.00	26.00		22.30		5.00		2.00		6.10
W020028045WF*	**20.00**		20.00	28.00	4.50	6.00	28.00		24.00		5.00		2.00		6.10
W022030045WF*	**22.40**		22.40	30.40	4.50	6.00	30.40	+ 0.10 - 0.00	26.40		5.00		2.00		10.12
W025033045WF*	**25.00**		25.00	33.00	4.50	6.00	33.00		29.00		5.00		2.00		6.10
W030038050WF	**30.00**		30.00	38.00	5.00	6.50	38.00		34.00		6.00		2.00		10.58
W035043050WF	**35.00**		35.00	43.00	5.00	6.50	43.00		39.00		6.00		2.00		10.58
W035043050WF-1*	**35.50**		35.50	43.50	5.00	6.50	43.50		39.50		6.00		2.00		12.67
W035043060WF	**35.00**		35.00	43.00	6.00	8.00	43.00		39.00		7.00		2.00		10.58
W040048050WF*	**40.00**	+ 0.00 - 0.05	40.00	48.00	5.00	6.50	48.00		44.00		6.00		2.00		8.04
W045053050WF*	**45.00**		45.00	53.00	5.00	6.50	53.00	+ 0.12 - 0.00	49.00		6.00		2.00		8.81
W045053050WF-1*	**45.50**		45.50	53.50	5.00	6.50	53.50		49.50		6.00		2.00		25.34
W045055060WF	**45.00**		45.00	55.00	6.00	8.00	55.00		50.00		7.00		2.00		9.33
W050058050WF*	**50.00**		50.00	58.00	5.00	6.50	58.00		54.00		6.00		2.00		12.59
W050060060WF	**50.00**		50.00	60.00	6.00	8.00	60.00		55.00		7.00		2.00		9.72
W055063050WF*	**55.00**		55.00	63.00	5.00	6.50	63.00		59.00		6.00		2.00		13.37
W055065060WF	**55.00**		55.00	65.00	6.00	8.00	65.00		60.00		7.00		2.00		9.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WF series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W055068070WF*	**55.00**	+ 0.00 - 0.05	55.00	68.00	7.00	9.50	68.00	+ 0.12 - 0.00	62.00	+ 0.10 - 0.10	8.00	+ 0.30 - 0.00	2.00	+ 0.20 - 0.20	9.81
W060068050WF*	**60.00**		60.00	68.00	5.00	6.50	68.00		64.00		6.00		2.00		11.13
W060073070WF	**60.00**		60.00	73.00	7.00	9.50	73.00		67.00		8.00		2.00		10.38
W063071050WF*	**63.00**		63.00	71.00	5.00	6.50	71.00		67.00		6.00		2.00		11.13
W065073050WF*	**65.00**	+ 0.00 - 0.06	65.00	73.00	5.00	6.50	73.00		69.00		6.00		2.00		11.13
W065078070WF	**65.00**		65.00	78.00	7.00	9.50	78.00		72.00		8.00		2.00		10.87
W070080060WF*	**70.00**		70.00	80.00	6.00	8.00	80.00	+ 0.14 - 0.00	75.00		7.00		3.00		13.83
W070083070WF	**70.00**		70.00	83.00	7.00	9.50	83.00		77.00		8.00		3.00		14.52
W075085060WF*	**75.00**		75.00	85.00	6.00	8.00	85.00		80.00		7.00		3.00		14.91
W075088070WF	**75.00**		75.00	88.00	7.00	9.50	88.00		82.00		8.00		3.00		15.08
W080090060WF*	**80.00**	+ 0.00 - 0.09	80.00	90.00	6.00	8.00	90.00		85.00		7.00		3.00		14.91
W080093070WF	**80.00**		80.00	93.00	7.00	9.50	93.00		87.00		8.00		3.00		15.98
W085095060WF*	**85.00**		85.00	95.00	6.00	8.00	95.00		90.00		7.00		3.00		15.22
W085098070WF*	**85.00**		85.00	98.00	7.00	9.50	98.00		92.00		8.00		3.00		16.87
W090100060WF*	**90.00**		90.00	100.00	6.00	8.00	100.00		95.00		7.00		3.00		16.30
W090103070WF*	**90.00**		90.00	103.00	7.00	9.50	103.00		97.00		8.00		3.00		18.90
W090105065WF*	**90.00**		90.00	105.00	6.50	8.50	105.00		98.00		7.50		3.00		25.71
W095105060WF*	**95.00**		95.00	105.00	6.00	8.00	105.00		100.00		7.00		3.00		24.03
W095108070WF*	**95.00**		95.00	108.00	7.00	9.50	108.00		102.00		8.00		3.00		24.03
W100110060WF*	**100.00**		100.00	110.00	6.00	8.00	110.00		105.00		7.00		3.00		24.03
W105115060WF*	**105.00**	+ 0.00 - 0.13	105.00	115.00	6.00	8.00	115.00		110.00		7.00		3.00		24.03
W105118070WF*	**105.00**		105.00	118.00	7.00	9.50	118.00		112.00		8.00		3.00		24.03
W110120060WF*	**110.00**		110.00	120.00	6.00	8.00	120.00		115.00		7.00		3.00		24.03
W110123070WF*	**110.00**		110.00	123.00	7.00	9.50	123.00		117.00		8.00		3.00		25.63
W120130060WF*	**120.00**		120.00	130.00	6.00	8.00	130.00		125.00		7.00		4.00		28.90
W120133070WF*	**120.00**		120.00	133.00	7.00	9.50	133.00		127.00		8.00		4.00		28.90
W125138070WF*	**125.00**		125.00	138.00	7.00	9.50	138.00		132.00		8.00		4.00		28.90
W130143070WF*	**130.00**		130.00	143.00	7.00	9.50	143.00		137.00		8.00		4.00		31.06
W140153070WF*	**140.00**		140.00	153.00	7.00	9.50	153.00		147.00		8.00		4.00		38.79
W140155065WF*	**140.00**		140.00	155.00	6.50	10.30	155.00		148.00		7.50		4.00		38.79
W145158070WF*	**145.00**		145.00	158.00	7.00	9.50	158.00		152.00		8.00		4.00		39.41
W150163070WF*	**150.00**		150.00	163.00	7.00	9.50	163.00		157.00		8.00		4.00		39.41
W160173070WF*	**160.00**		160.00	173.00	7.00	9.50	173.00		167.00		8.00		4.00		44.27
W170183070WF	**170.00**		170.00	183.00	7.00	9.50	183.00	+ 0.18 - 0.00	177.00		8.00		4.00		52.00
W175188070WF*	**175.00**		175.00	188.00	7.00	9.50	188.00		182.00		8.00		4.00		56.25
W180193070WF*	**180.00**		180.00	193.00	7.00	9.50	193.00		187.00		8.00		4.00		69.69
W190203070WF*	**190.00**		190.00	203.00	7.00	9.50	203.00		197.00		8.00		5.00		73.02
W200213070WF*	**200.00**		200.00	213.00	7.00	9.50	213.00		207.00		8.00		5.00		72.71
W210223070WF*	**210.00**		210.00	223.00	7.00	9.50	223.00		217.00		8.00		5.00		73.94
W220233070WF*	**220.00**		220.00	233.00	7.00	9.50	233.00		227.00		8.00		5.00		365.54
W225238070WF*	**225.00**		225.00	238.00	7.00	9.50	238.00		232.00		8.00		5.00		77.27
W230243070WF*	**230.00**		230.00	243.00	7.00	9.50	243.00		237.00		8.00		5.00		77.27
W240253070WF*	**240.00**		240.00	253.00	7.00	9.50	253.00	+ 0.21 - 0.00	247.00		8.00		5.00		91.25
W250263070WF*	**250.00**		250.00	263.00	7.00	9.50	263.00		257.00		8.00		5.00		114.12
W260275090WF*	**260.00**		260.00	275.00	9.00	12.00	275.00		268.00		10.00		5.00		121.69
W270285090WF*	**270.00**		270.00	285.00	9.00	12.00	285.00		278.00		10.00		5.00		181.03

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

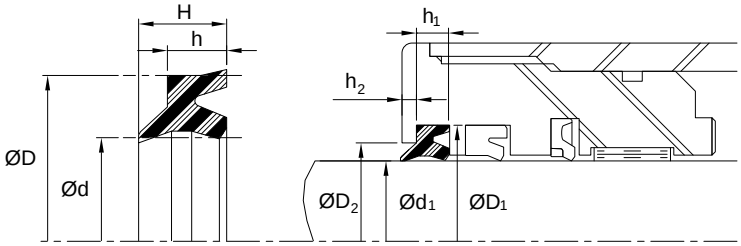
WF series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W280295090WF*	**280.00**	+ 0.00 - 0.13	280.00	295.00	9.00	12.00	295.00	+ 0.21 - 0.00	288.00	+ 0.10 - 0.10	10.00	+ 0.30 - 0.00	5.00	+ 0.20 - 0.20	190.15
W290305090WF*	**290.00**		290.00	305.00	9.00	12.00	305.00		298.00		10.00		5.00		190.15
W300315090WF*	**300.00**		300.00	315.00	9.00	12.00	315.00		308.00		10.00		5.00		220.59

WG - Rod Wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane	-22°F to +212°F (-30°C to +100°C)	< 1.6 ft/s (0.5 m/s)



The **WG-style** wiper is a dual-function unit, which wipes dirt and other contaminants from the rod while insuring seability as a secondary rod seal. The fluid retained by the wiper can be pumped back into the system via a leakage bore hole.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W012018036WG	**12.00**	+ 0.00 - 0.04	12.00	18.00	3.60	6.00	18.60	+ 0.00 - 0.20	14.50	+ 0.10 - 0.10	4.00	+ 0.20 - 0.00	2.00	+ 0.20 - 0.20	5.93
W014020036WG	**14.00**		14.00	20.00	3.60	6.00	20.60		16.50		4.00		2.00		5.99
W014022045WG	**14.00**		14.00	22.00	4.50	6.00	22.60		18.30		5.00		2.00		3.93
W016022036WG	**16.00**		16.00	22.00	3.60	6.00	22.60		18.50		4.00		2.00		6.16
W016024045WG	**16.00**		16.00	24.00	4.50	6.00	24.60		20.30		5.00		2.00		4.19
W018024036WG	**18.00**		18.00	24.00	3.60	6.00	24.60		20.50		4.00		2.00		7.08
W018026045WG	**18.00**		18.00	26.00	4.50	6.00	26.60		22.30		5.00		2.00		4.19
W020025045WG*	**20.00**		20.00	25.00	4.50	6.00	25.60		25.00		5.00		2.00		6.59
W020026036WG	**20.00**		20.00	26.00	3.60	6.00	26.60		22.50		4.00		2.00		10.41
W020028045WG	**20.00**		20.00	28.00	4.50	6.00	28.60		24.30		5.00		2.00		4.38
W022028036WG*	**22.00**		22.00	28.00	3.60	6.00	28.60		24.50		4.00		2.00		6.15
W022028040WG*	**22.00**		22.00	28.00	4.00	7.00	28.00		24.50		4.00		3.00		11.31
W022030045WG	**22.00**		22.00	30.00	4.50	6.00	30.60		26.30		5.00		2.00		7.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WG series - AU 92A

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W022030045WG-1	**22.40**	+ 0.00 - 0.04	22.40	30.40	4.50	6.00	31.00	+ 0.00 - 0.20	26.70	+ 0.10 - 0.10	5.00	+ 0.20 - 0.00	2.00	+ 0.20 - 0.20	4.52
W024032048WG*	**24.00**		24.00	32.00	4.80	6.00	32.60		27.00		5.30		2.00		7.29
W025031036WG	**25.00**		25.00	31.00	3.60	4.80	31.60		27.50		4.00		1.80		7.49
W025033045WG	**25.00**		25.00	33.00	4.50	6.00	33.60		29.30		5.00		2.00		4.75
W025033048WG	**25.00**		25.00	33.00	4.80	6.00	33.60		28.00		5.30		2.00		7.68
W028036040WG	**28.00**		28.00	36.00	4.00	6.50	36.60		31.00		4.50		2.00		5.51
W028036045WG	**28.00**		28.00	36.00	4.50	6.00	36.60		31.00		5.00		2.00		4.75
W030038045WG	**30.00**		30.00	38.00	4.50	6.50	38.60		34.00		5.00		2.00		8.05
W030038050WG	**30.00**		30.00	38.00	5.00	6.50	38.60		33.00		5.50		2.00		6.85
W031039050WG	**31.50**		31.50	39.50	5.00	6.50	40.10		35.50		5.50		2.00		5.19
W032040045WG	**32.00**		32.00	40.00	4.50	6.50	40.60		35.00		5.00		2.00		8.05
W032040050WG	**32.00**		32.00	40.00	5.00	6.50	40.60		36.00		5.50		2.00		8.04
W032040060WG	**32.00**		32.00	40.00	6.00	8.40	40.60		36.00		6.00		2.00		22.74
W035043050WG	**35.00**		35.00	43.00	5.00	6.50	43.60		39.00		5.50		2.00		5.83
W035043050WG-1	**35.00**		35.50	43.50	5.00	6.50	44.10		39.50		5.50		2.00		16.17
W036044045WG	**36.00**		36.00	44.00	4.50	6.50	44.60		39.00		5.00		2.00		12.14
W036044050WG	**36.00**		36.00	44.00	5.00	6.50	44.60		40.00		5.50		2.00		8.89
W040048045WG*	**40.00**		40.00	48.00	4.50	6.50	48.60		43.00		5.00		2.00		8.29
W040048050WG	**40.00**	+ 0.00 - 0.05	40.00	48.00	5.00	6.50	48.60		44.00		5.50		2.00		6.58
W040050050WG	**40.00**		40.00	50.00	5.00	6.50	50.60		46.00		5.50		2.00		13.84
W045053045WG	**45.00**		45.00	53.00	4.50	6.50	53.60		48.00		5.00		2.00		9.44
W045053050WG	**45.00**		45.00	53.00	5.00	6.50	53.60		49.00		5.50		2.00		7.21
W050058045WG	**50.00**		50.00	58.00	4.50	6.50	58.60		53.00		5.00		2.00		13.07
W050058050WG	**50.00**		50.00	58.00	5.00	6.50	58.60		54.00		5.50		2.00		7.87
W050060050WG	**50.00**		50.00	60.00	5.00	6.50	60.50		56.00		5.50		2.00		8.32
W055063050WG	**55.00**		55.00	63.00	5.00	6.50	63.60		59.00		5.50		2.00		8.55
W056064050WG	**56.00**		56.00	64.00	5.00	6.50	64.60		60.00		5.50		2.00		8.55
W056066050WG	**56.00**		56.00	66.00	5.00	6.50	66.60		59.00		5.50		2.00		19.75
W060068050WG	**60.00**		60.00	68.00	5.00	6.50	68.60		64.00		5.50		2.00		9.14
W060070050WG	**60.00**		60.00	70.00	5.00	7.00	70.60		63.00		5.30		2.00		11.21
W060070060WG	**60.00**		60.00	70.00	6.00	9.00	70.60		63.00		6.00		3.00		9.07
W063071050WG	**63.00**		63.00	71.00	5.00	6.50	71.60		67.00		5.50		2.00		9.14
W063073050WG	**63.00**	+ 0.00 - 0.06	63.00	73.00	5.00	7.00	73.60		66.00		5.30		2.00		16.23
W065073050WG	**65.00**		65.00	73.00	5.00	6.50	73.60		69.00		5.50		2.00		9.14
W065075050WG	**65.00**		65.00	75.00	5.00	7.00	75.60		68.00		5.30		2.00		9.14
W070078050WG	**70.00**		70.00	78.00	5.00	8.00	78.60		73.00		5.30		2.00		9.38
W070080050WG	**70.00**		70.00	80.00	5.00	7.00	80.60		73.00		5.30		2.00		13.23
W070080060WG	**70.00**		70.00	80.00	6.00	8.00	80.60		75.00		7.00		3.00		11.41
W071081060WG	**71.00**		71.00	81.00	6.00	8.00	81.60		76.00		7.00		3.00		11.41
W075083048WG*	**75.00**	+ 0.00 - 0.09	75.00	83.00	4.80	8.00	83.60		78.00		5.30		2.00		34.72
W075085060WG	**75.00**		75.00	85.00	6.00	8.00	85.60		80.00		7.00		3.00		12.04
W080090053WG	**80.00**		80.00	90.00	5.30	8.00	90.60		83.00		6.00		2.00		12.11
W080090060WG	**80.00**		80.00	90.00	6.00	8.00	90.60		85.00		7.00		3.00		12.04
W085095060WG	**85.00**		85.00	95.00	6.00	8.00	95.60		90.00		7.00		3.00		12.47
W085097070WG*	**85.00**		85.00	97.00	7.00	9.00	97.20		91.00		7.10		2.00		11.34
W090100053WG	**90.00**		90.00	100.00	5.30	8.00	100.60		93.00		6.00		2.00		11.58

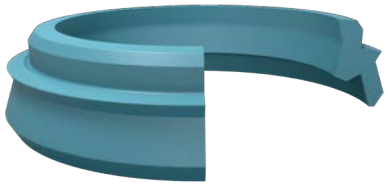
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W090100060WG	**90.00**	+ 0.00 - 0.09	90.00	100.00	6.00	8.00	100.60	+ 0.00 - 0.20	95.00	+ 0.10 - 0.10	7.00	+ 0.20 - 0.00	3.00	+ 0.20 - 0.20	13.53
W090102070WG	**90.00**		90.00	102.00	7.00	9.00	102.20		96.00		7.10		2.00		13.53
W095105060WG	**95.00**		95.00	105.00	6.00	8.00	105.60		100.00		7.00		3.00		11.58
W100110060WG	**100.00**		100.00	110.00	6.00	8.00	110.60		105.00		7.00		3.00		19.61
W105115060WG	**105.00**		105.00	115.00	6.00	8.00	115.60		110.00		7.00		3.00		28.71
W110120060WG	**110.00**		110.00	120.00	6.00	8.00	120.60		115.00		7.00		3.00		23.41
W110122071WG	**110.00**		110.00	122.00	7.10	8.00	122.60		116.00		7.50		3.00		40.51
W110125075WG	**110.00**		110.00	125.00	7.50	8.00	125.60		114.00		8.50		3.00		26.47
W112122060WG	**112.00**	+ 0.00 - 0.13	112.00	122.00	6.00	8.00	122.60		117.00		7.00		3.00		21.74
W115125060WG	**115.00**		115.00	125.00	6.00	8.00	125.60		120.00		7.00		3.00		34.46
W120130060WG*	**120.00**		120.00	130.00	6.00	8.00	130.60		125.00		7.00		3.00		36.49
W125138070WG	**125.00**		125.00	138.00	7.00	9.50	138.60		132.00		8.00		3.00		23.58
W125140075WG*	**125.00**		125.00	140.00	7.50	9.50	140.60		129.00		8.50		3.00		60.07
W130143070WG	**130.00**		130.00	143.00	7.00	9.50	143.60		137.00		8.00		3.00		53.61
W140153070WG	**140.00**		140.00	153.00	7.00	9.50	153.60		147.00		8.00		3.00		25.97
W140155075WG	**140.00**		140.00	155.00	7.50	9.50	155.60		144.00		8.50		3.00		82.27
W140155082WG*	**140.00**		140.00	155.00	8.20	10.20	155.60		144.00		8.50		3.00		82.27
W155168070WG	**155.00**		155.00	168.00	7.00	9.50	168.60		162.00		8.00		3.00		74.66
W160173070WG	**160.00**		160.00	173.00	7.00	9.50	173.60		167.00		8.00		3.00		76.45
W160174070WG	**160.00**		160.00	174.00	7.00	9.50	174.60		167.00		8.00		3.00		29.04
W165178070WG	**165.00**		165.00	178.00	7.00	9.50	178.60		172.00		8.00		3.00		29.04
W170183070WG	**170.00**		170.00	183.00	7.00	9.50	183.60		177.00		8.00		3.00		86.03
W175188070WG	**175.00**		175.00	188.00	7.00	9.50	188.60		182.00		8.00		3.00		64.45
W180193070WG	**180.00**		180.00	193.00	7.00	9.50	193.60		187.00		8.00		3.00		95.84
W190203070WG	**190.00**		190.00	203.00	7.00	9.50	203.60		197.00		8.00		3.00		105.53
W200213070WG*	**200.00**		200.00	213.00	7.00	9.50	213.60		207.00		8.00		3.00		116.77
W220233070WG*	**220.00**		220.00	233.00	7.00	9.50	233.60		227.00		8.00		3.00		138.07
W250265090WG*	**250.00**		250.00	265.00	9.00	11.50	265.60		258.00		10.00		3.00		143.37
W300315090WG*	**300.00**		300.00	315.00	9.00	11.50	315.60		308.00		10.00		3.00		455.59
W355375100WG*	**355.00**		355.00	375.00	10.00	14.00	375.60		365.00		11.00		3.00		823.34

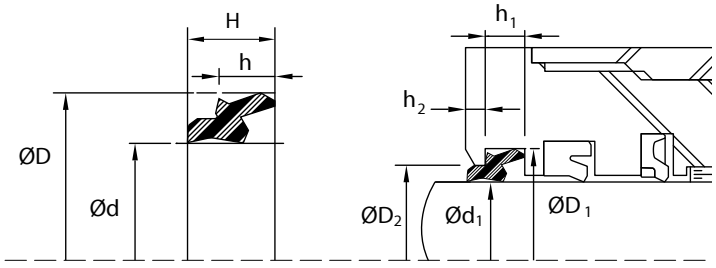
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



WG24 - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane	-31°F to +212°F (-35°C to +100°C)	<3.3 ft/s (1 m/s)



The **WG24-style** is a double-acting polyurethane rod wiper engineered for severe conditions and heavy contamination, making it ideal for construction machinery and mobile hydraulic systems, even under piston rod side loads.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W045053061WG24*	**45.00**	+0.00 -0.05	45.00	53.00	6.10	9.40	53.80	+0.08 -0.00	49.40	+0.08 -0.00	6.30	+0.15 -0.00	3.20	+0.15 -0.00	26.88
W050058061WG24*	**50.00**		50.00	58.00	6.10	9.40	58.80		54.40		6.30		3.20		12.78
W056064061WG24*	**56.00**		56.00	64.00	6.10	9.40	64.80		60.40		6.30		3.20		13.01
W060068061WG24*	**60.00**		60.00	68.00	6.10	9.40	68.80		64.40		6.30		3.20		13.41
W070082081WG24*	**70.00**	+0.00 -0.06	70.00	82.00	7.90	12.00	82.20	+0.10 -0.00	76.00	+0.10 -0.00	8.10		4.00		16.23
W075087081WG24*	**75.00**		75.00	87.00	7.90	12.00	87.20		81.00		8.10		4.00		17.01
W080092081WG24*	**80.00**		80.00	92.00	7.90	12.00	92.20		86.00		8.10		4.00		17.56
W085097081WG24*	**85.00**	+0.00 -0.09	85.00	97.00	7.90	12.00	97.20		91.00		8.10		4.00		19.74
W090102081WG24*	**90.00**		90.00	102.00	7.90	12.00	102.20		96.00		8.10		4.00		23.24
W095107081WG24*	**95.00**		95.00	107.00	7.90	12.00	107.20		101.00		8.10		4.00		24.02
W100112081WG24*	**100.00**		100.00	112.00	7.90	12.00	112.20		106.00		8.10		4.00		31.11
W105117081WG24*	**105.00**	+0.00 -0.13	105.00	117.00	7.90	12.00	117.20		111.00		8.10		4.00		31.22
W110122081WG24	**110.00**		110.00	122.00	7.90	12.00	122.20		116.00		8.10		4.00		34.60
W115127081WG24*	**115.00**		115.00	127.00	7.90	12.00	127.20		121.00		8.10		4.00		38.20
W125137081WG24*	**125.00**		125.00	137.00	7.90	12.00	137.20		131.00		8.10		4.00		39.40
W140156095WG24*	**140.00**		140.00	156.00	9.20	14.25	156.00		148.00		9.50		5.00		48.70
W150166095WG24*	**150.00**		150.00	166.00	9.20	14.25	166.00		158.00		9.50		5.00		61.20
W160176095WG24*	**160.00**		160.00	176.00	9.20	14.25	176.00		168.00		9.50		5.00		78.40
W170186095WG24*	**170.00**		170.00	186.00	9.20	14.25	186.00	+0.13 -0.00	178.00	+0.13 -0.00	9.50		5.00		94.18
W180196095WG24*	**180.00**		180.00	196.00	9.20	14.25	196.00		188.00		9.50		5.00		108.10
W200216095WG24	**200.00**		200.00	216.00	9.20	14.25	216.00		208.00		9.50		5.00		122.40
W220236095WG24*	**220.00**		220.00	236.00	9.20	14.25	236.00		228.00		9.50		5.00		144.44
W240254095WG24*	**240.00**		240.00	254.00	9.20	14.25	254.00		248.00		9.50		5.00		151.20

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

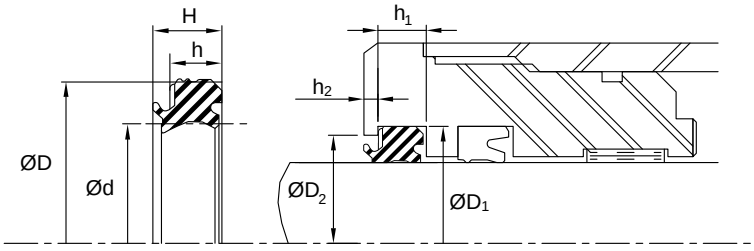
WG24 series - AU 92A

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W260276095WG24*	**260.00**	+ 0.00 - 0.13	260.00	276.00	9.20	14.25	276.00	+ 0.13 - 0.00	268.00	+ 0.13 - 0.00	9.50	+ 0.15 - 0.00	5.00	+ 0.15 - 0.00	172.99
W280296095WG24*	**280.00**		280.00	296.00	9.20	14.25	296.00		288.00		9.50		5.00		201.40
W290306095WG24*	**290.00**		290.00	306.00	9.20	14.25	306.00		298.00		9.50		5.00		249.70

SCK - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Nitrile	-49°F to +212°F (-45°C to +100°C)	<3.3 ft/s (1 m/s)



The **SCK-style** is an insertable large-profile dust seals suitable for both outdoor and indoor applications.
They protect packings and cylinders by preventing external dust ingress.
They are specifically designed to prevent water from entering through the outer groove circuit.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

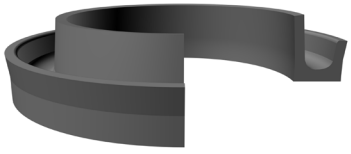
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W018030058SCK	**18.00**	+ 0.00 - 0.04	18.00	30.00	5.80	7.70	30.00	+ 0.00 - 0.20	24.00	+ 0.10 - 0.10	6.00	+ 0.30 - 0.00	3.00	+ 0.20 - 0.20	12.49
W020032058SCK	**20.00**		20.00	32.00	5.80	7.70	32.00		26.00		6.00		3.00		13.77
W025037058SCK	**25.00**		25.00	37.00	5.80	7.70	37.00		31.00		6.00		3.00		16.98
W028040058SCK*	**28.00**		28.00	40.00	5.80	7.70	40.00		34.00		6.00		3.00		17.36
W030042058SCK	**30.00**		30.00	42.00	5.80	7.70	42.00		36.00		6.00		3.00		17.64
W035047068SCK	**35.00**		35.00	47.00	6.80	8.70	47.00		41.00		7.00		3.00		25.64
W040052068SCK*	**40.00**		40.00	52.00	6.80	8.70	52.00		46.00		7.00		3.00		27.12
W045057068SCK*	**45.00**		45.00	57.00	6.80	8.70	57.00		51.00		7.00		3.00		28.45
W050062068SCK	**50.00**		50.00	62.00	6.80	8.70	62.00		56.00		7.00		3.00		30.45
W055069077SCK*	**55.00**		55.00	69.00	7.70	10.00	69.00		62.00		8.00		3.00		31.64
W060074077SCK*	**60.00**		60.00	74.00	7.70	10.00	74.00		67.00		8.00		3.00		32.84
W065079077SCK*	**65.00**		65.00	79.00	7.70	10.00	79.00		72.00		8.00		3.00		34.01
W070084077SCK*	**70.00**		70.00	84.00	7.70	10.00	84.00		77.00		8.00		3.00		35.20

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

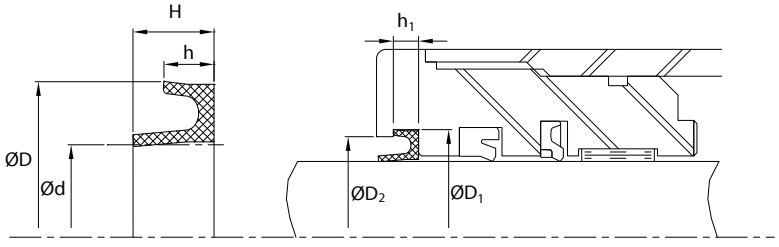
SCK series - NBR

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	$
W075089077SCK*	**75.00**	+ 0.00 - 0.04	75.00	89.00	7.70	10.00	89.00	+ 0.00 - 0.20	82.00	+ 0.10 - 0.10	8.00	+ 0.30 - 0.00	3.00	+ 0.20 - 0.20	36.40
W080094077SCK	**80.00**		80.00	94.00	7.70	10.00	94.00		87.00		8.00		3.00		37.57
W085099077SCK*	**85.00**		85.00	99.00	7.70	10.00	99.00		92.00		8.00		3.00		38.76
W090104077SCK*	**90.00**		90.00	104.00	7.70	10.00	104.00		97.00		8.00		3.00		39.64
W095109077SCK*	**95.00**		95.00	109.00	7.70	10.00	109.00		102.00		8.00		3.00		41.67
W100114077SCK*	**100.00**		100.00	114.00	7.70	10.00	114.00		107.00		8.00		3.00		43.24
W105121087SCK*	**105.00**		105.00	121.00	8.70	12.00	121.00		113.00		9.00		4.00		44.60
W110126087SCK*	**110.00**		110.00	126.00	8.70	12.00	126.00		118.00		9.00		4.00		46.20
W115131087SCK*	**115.00**		115.00	131.00	8.70	12.00	131.00		123.00		9.00		4.00		O/R
W120136087SCK*	**120.00**		120.00	136.00	8.70	12.00	136.00		128.00		9.00		4.00		O/R
W125141087SCK*	**125.00**		125.00	141.00	8.70	12.00	141.00		133.00		9.00		4.00		O/R

WH - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Nylon	-22°F to +212°F (-30°C to +100°C)	<3 ft/s (0.9 m/s)



The **WH-style** is a single acting medium to heavy duty rod wiper.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

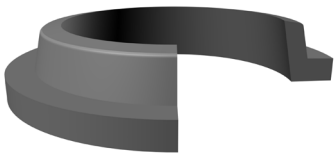
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	$
W016026045WH*	**16.00**	+ 0.00 - 0.05	16.00	26.00	4.00	26.00	+ 0.05 - 0.00	24.50	+ 0.05 - 0.00	4.50	+ 0.13 - 0.00	7.36
W020033060WH*	**20.00**		20.00	33.00	5.60	33.00		31.50		6.00		7.36
W025038060WH	**25.00**		25.00	38.00	5.60	38.00		36.50		6.00		7.36
W028041060WH*	**28.00**		28.00	41.00	5.60	41.00		39.50		6.00		7.36
W030043060WH*	**30.00**		30.00	43.00	5.60	43.00		41.50		6.00		7.98

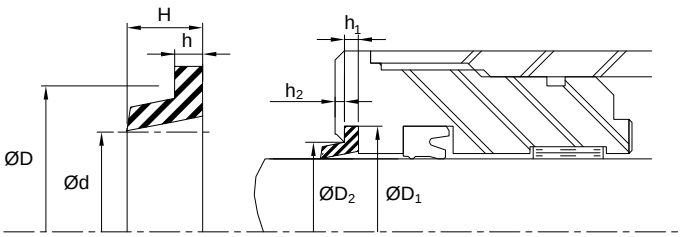
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WH series - NYLON

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
W032045060WH*	**32.00**	+ 0.00 - 0.05	32.00	45.00	5.60	45.00	+ 0.05 - 0.00	43.50	+ 0.05 - 0.00	6.00	+ 0.13 - 0.00	7.36
W036049060WH*	**36.00**		36.00	49.00	5.60	49.00		47.50		6.00		8.17
W040053060WH	**40.00**		40.00	53.00	5.60	53.00		51.50		6.00		11.20
W045058060WH*	**45.00**		45.00	58.00	5.60	58.00		56.50		6.00		8.17
W050063060WH*	**50.00**		50.00	63.00	5.60	63.00		61.50		6.00		9.64
W055068060WH*	**55.00**		55.00	68.00	5.60	68.00		66.50		6.00		14.34
W056069060WH*	**56.00**		56.00	69.00	5.60	69.00		67.50		6.00		10.84
W060073060WH	**60.00**		60.00	73.00	5.60	73.00		71.50		6.00		11.03
W063076060WH*	**63.00**		63.00	76.00	5.60	76.00		74.50		6.00		13.71
W070083060WH*	**70.00**		70.00	83.00	5.60	83.00		81.50		6.00		8.39
W075088060WH*	**75.00**		75.00	88.00	5.60	88.00		86.50		6.00		16.40
W080093060WH*	**80.00**		80.00	93.00	5.60	93.00		91.50		6.00		14.96
W090103060WH*	**90.00**		90.00	103.00	5.60	103.00		101.50		6.00		16.37
W100114060WH*	**100.00**		100.00	114.00	5.60	114.00		111.50		6.00		17.80

WJ - Rod wipers - Metric





Standard Material	Temperature Range	Surface Speed
Nitrile	-22°F to +212°F (-30°C to +100°C)	< 1.6 ft/s (0.5 m/s)

The **WJ-style** is a light duty rod wiper molded in nitrile.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	$
W008014012WJ*	**8.00**	+ 0.00 - 0.04	8.00	14.35	1.20	3.50	14.00	+ 0.11 - 0.00	10.10	+ 0.11 - 0.00	1.30	+ 0.05 - 0.00	2.50	+ 0.20 - 0.20	6.62
W010016012WJ*	**10.00**		10.00	16.35	1.20	3.50	16.00		12.10		1.30		2.50		7.21
W011017012WJ*	**11.00**		11.00	17.35	1.20	3.50	17.00		13.10		1.30		2.50		7.54

+0.13/-0.00

WJ series - NBR 90A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W012018012WJ*	**12.00**	+ 0.00 - 0.04	12.00	18.35	1.20	3.50	18.00	+ 0.11 - 0.00	14.10	+ 0.13 - 0.00	1.30	+ 0.08 - 0.00	2.50	+ 0.20 - 0.20	7.98
W013019012WJ*	**13.00**		13.00	19.35	1.20	3.50	19.00		15.10		1.30		2.50		8.65
W014020012WJ*	**14.00**		14.00	20.35	1.20	3.50	20.00		16.10		1.30		2.50		8.98
W015021012WJ*	**15.00**		15.00	21.35	1.20	3.50	21.00		17.10		1.30		2.50		9.23
W016022012WJ*	**16.00**		16.00	22.35	1.20	3.50	22.00		18.10		1.30		2.50		9.74
W017023012WJ*	**17.00**		17.00	23.35	1.20	3.50	23.00		19.10		1.30		2.50		10.12
W018024012WJ*	**18.00**		18.00	24.35	1.20	3.50	24.00		20.10		1.30		2.50		11.21
W020028015WJ*	**20.00**		20.00	28.00	1.50	4.50	27.50		22.90	+ 0.16 - 0.00	1.60		3.00		11.99
W023031015WJ*	**23.00**		23.00	31.00	1.50	4.50	30.50	+ 0.16 - 0.00	25.90		1.60		3.00		12.23
W024032015WJ*	**24.00**		24.00	32.00	1.50	4.50	31.50		26.90		1.60		3.00		12.83
W025033015WJ	**25.00**		25.00	33.00	1.50	4.50	32.50		27.90		1.60		3.00		13.54
W027035015WJ*	**27.00**		27.00	35.00	1.50	4.50	34.50		29.90		1.60		3.00		13.99
W028036015WJ*	**28.00**		28.00	36.00	1.50	4.50	35.50		30.90		1.60		3.00		14.00
W030038015WJ*	**30.00**		30.00	38.00	1.50	4.50	37.50		32.90		1.60		3.00		14.26
W032040015WJ*	**32.00**		32.00	40.00	1.50	4.50	39.50		34.90		1.60		3.00		18.74
W033041015WJ*	**33.00**		33.00	41.00	1.50	4.50	40.50		35.90		1.60		3.00		14.98
W035043015WJ	**35.00**		35.00	43.00	1.50	4.50	42.50		37.90		1.60		3.00		15.28
W036044015WJ*	**36.00**		36.00	44.00	1.50	4.50	43.50		38.90	+ 0.19 - 0.00	1.60		3.00		15.71
W037045015WJ	**37.00**		37.00	45.00	1.50	4.50	44.50		39.90		1.60		3.00		16.01
W040048015WJ*	**40.00**	+ 0.00 - 0.05	40.00	48.00	1.50	4.50	47.50		42.90		1.60		3.00		16.84
W043051015WJ*	**43.00**		43.00	51.00	1.50	4.50	50.50	+ 0.19 - 0.00	45.90		1.60		3.00		17.51
W045053015WJ*	**45.00**		45.00	53.00	1.50	4.50	52.50		47.90		1.60		3.00		17.88
W046056020WJ*	**46.00**		46.00	56.80	2.05	6.00	56.00		50.60		2.15		4.00		18.51
W048058020WJ*	**48.00**		48.00	58.80	2.05	6.00	58.00		52.60		2.15		4.00		19.21
W050060020WJ	**50.00**		50.00	60.80	2.05	6.00	60.00		54.60		2.15		4.00		18.99
W055065020WJ	**55.00**		55.00	65.80	2.05	6.00	65.00		59.60		2.15		4.00		34.60
W056066020WJ*	**56.00**		56.00	66.80	2.05	6.00	66.00		60.60		2.15		4.00		31.64
W057067020WJ*	**57.00**		57.00	67.80	2.05	6.00	67.00		61.60		2.15		4.00		32.51
W060070020WJ*	**60.00**		60.00	70.80	2.05	6.00	70.00		64.60		2.15		4.00		33.33
W063073020WJ	**63.00**		63.00	73.80	2.05	6.00	73.00		67.60	+ 0.22 - 0.00	2.15		4.00		23.55
W065075020WJ*	**65.00**	+ 0.00 - 0.06	65.00	75.80	2.05	6.00	75.00		69.60		2.15		4.00		34.11
W070080020WJ*	**70.00**		70.00	80.80	2.05	6.00	80.00		74.60		2.15		4.00		34.21
W072082020WJ*	**72.00**		72.00	82.80	2.05	6.00	82.00	+ 0.22 - 0.00	76.60		2.15		4.00		34.62
W075085020WJ*	**75.00**		75.00	85.80	2.05	6.00	85.00		79.60		2.15		4.00		31.26
W078088020WJ*	**78.00**	+ 0.00 - 0.09	78.00	88.80	2.05	6.00	88.00		82.60		2.15		4.00		33.01
W080090020WJ	**80.00**		80.00	90.80	2.05	6.00	90.00		84.60		2.15		4.00		30.23
W085095020WJ*	**85.00**		85.00	95.80	2.05	6.00	95.00		89.60		2.15		4.00		36.80
W086096020WJ*	**86.00**		86.00	96.80	2.05	6.00	96.00		90.60		2.15		4.00		39.88
W090100020WJ	**90.00**		90.00	100.80	2.05	6.00	100.00		94.60		2.15		4.00		45.28
W095105020WJ*	**95.00**		95.00	105.80	2.05	6.00	105.00		99.60		2.15		4.00		44.01
W099109020WJ*	**99.00**		99.00	109.80	2.05	6.00	109.00		103.60		2.15		4.00		43.60
W100110020WJ	**100.00**		100.00	110.80	2.05	6.00	110.00		104.60		2.15		4.00		38.65
W105115020WJ*	**105.00**	+ 0.00 - 0.13	105.00	115.80	2.05	6.00	115.00		109.60	+ 0.25 - 0.00	2.15		4.00		39.61
W108118020WJ*	**108.00**		108.00	118.80	2.05	6.00	118.00		112.60		2.15		4.00		41.98
W110120020WJ*	**110.00**		110.00	120.80	2.05	6.00	120.00		114.60		2.15		4.00		42.63
W113123020WJ*	**113.00**		113.00	123.80	2.05	6.00	123.00		117.60		2.15		4.00		43.26

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

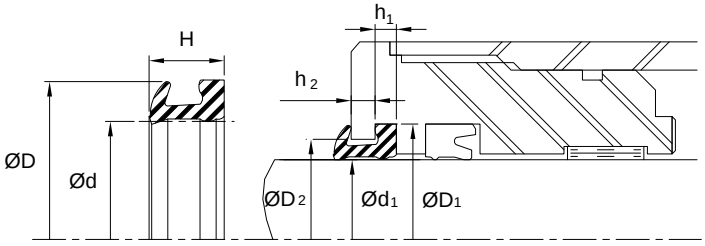
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W115125020WJ*	**115.00**	+0.00 -0.13	115.00	125.80	2.05	6.00	125.00	+0.25 -0.00	119.60	+0.22/-0.00	2.15	+0.08 -0.00	4.00	+0.20 -0.20	43.74
W116126020WJ*	**116.00**		116.00	126.80	2.05	6.00	126.00		120.60	+0.25 -0.00	2.15		4.00		44.98
W120130020WJ*	**120.00**		120.00	130.80	2.05	6.00	130.00		124.60		2.15		4.00		45.01
W125135020WJ*	**125.00**		125.00	135.80	2.05	6.00	135.00		129.60		2.15		4.00		46.23
W127137020WJ*	**127.00**		127.00	137.80	2.05	6.00	137.00		131.60		2.15		4.00		47.83
W130140020WJ*	**130.00**		130.00	140.80	2.05	6.00	140.00		134.60		2.15		4.00		48.22
W133143020WJ*	**133.00**		133.00	143.80	2.05	6.00	143.00		137.60		2.15		4.00		50.21
W135145020WJ*	**135.00**		135.00	145.80	2.05	6.00	145.00		139.60		2.15		4.00		51.01
W140150020WJ	**140.00**		140.00	150.80	2.05	6.00	150.00		144.60		2.15		4.00		52.60
W142152020WJ*	**142.00**		142.00	152.80	2.05	6.00	152.00		146.60		2.15		4.00		O/R
W145155020WJ*	**145.00**		145.00	155.80	2.05	6.00	155.00		149.60		2.15		4.00		O/R
W150166030WJ*	**150.00**		150.00	166.10	3.05	9.00	165.00		157.00		3.15	+0.10 -0.00	6.00		O/R
W152168030WJ*	**152.00**		152.00	168.10	3.05	9.00	167.00		159.00		3.15		6.00		O/R
W155171030WJ*	**155.00**		155.00	171.10	3.05	9.00	170.00		162.00		3.15		6.00		O/R
W160176030WJ*	**160.00**		160.00	176.10	3.05	9.00	175.00		167.00		3.15		6.00		O/R
W165181030WJ*	**165.00**		165.00	181.10	3.05	9.00	180.00		172.00		3.15		6.00		O/R
W170186030WJ*	**170.00**		170.00	186.10	3.05	9.00	185.00	+0.29 -0.00	177.00	+0.29 -0.00	3.15		6.00		O/R
W172188030WJ*	**172.00**		172.00	188.10	3.05	9.00	187.00		179.00		3.15		6.00		O/R
W175191030WJ*	**175.00**		175.00	191.10	3.05	9.00	190.00		182.00		3.15		6.00		O/R
W180196030WJ*	**180.00**		180.00	196.10	3.05	9.00	195.00		187.00		3.15		6.00		O/R
W185201030WJ*	**185.00**		185.00	201.10	3.05	9.00	200.00		192.00		3.15		6.00		O/R
W190206030WJ*	**190.00**		190.00	206.10	3.05	9.00	205.00		197.00		3.15		6.00		O/R
W195211030WJ*	**195.00**		195.00	211.10	3.05	9.00	210.00		202.00		3.15		6.00		O/R
W200216030WJ*	**200.00**		200.00	216.10	3.05	9.00	215.00		207.00		3.15		6.00		O/R
W210226030WJ*	**210.00**		210.00	226.10	3.05	9.00	225.00		217.00		3.15		6.00		O/R
W220236030WJ*	**220.00**		220.00	236.10	3.05	9.00	235.00		227.00		3.15		6.00		O/R
W230246030WJ*	**230.00**		230.00	246.10	3.05	9.00	245.00		237.00		3.15		6.00		O/R
W240256030WJ*	**240.00**		240.00	256.10	3.05	9.00	255.00	+0.32 -0.00	247.00		3.15		6.00		O/R
W250266030WJ*	**250.00**		250.00	266.10	3.05	9.00	265.00		257.00	+0.32 -0.00	3.15		6.00		O/R
W270286030WJ*	**270.00**		270.00	286.10	3.05	9.00	285.00		277.00		3.15		6.00		O/R
W280296030WJ*	**280.00**		280.00	296.10	3.05	9.00	295.00		287.00		3.15		6.00		O/R
W285301030WJ*	**285.00**		285.00	301.10	3.05	9.00	301.00		292.00		3.15		6.00		O/R
W370386030WJ*	**370.00**		370.00	386.10	3.05	9.00	385.00	+0.36/-0.00	377.00	+0.36/-0.00	3.15		6.00		O/R
W475491030WJ*	**475.00**		475.00	491.10	3.05	9.00	490.00	+0.40 -0.00	482.00	+0.40 -0.00	3.15		6.00		O/R
W660676030WJ*	**660.00**		660.00	676.10	3.05	9.00	675.00		667.00		3.15		6.00		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WM - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane	-40°F to +212°F (-40°C to +100°C)	<13 ft/s (4 m/s)



The **WM-style** wiper seal effectively blocks dust and contaminants, protecting guiding components and extending seal life. Its integrated dirt shield ensures reliable performance even with rod misalignment up to 1.5 mm, while offering smooth operation, high wear and temperature resistance, and easy snap-in installation in closed or undercut housings.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W035047041WM*	**35.00**	- 0.03 - 0.09	35.00	45.00		10.00	47.00	+ 0.16 - 0.00	41.00	+ 0.16 - 0.00	4.10	+ 0.20 - 0.00	2.50	+ 0.10 - 0.00	31.29
W036046031WM*	**36.00**		36.00	44.00		7.00	45.50		40.05		3.10		2.00		35.06
W040052041WM*	**40.00**		40.00	50.00		10.00	52.00		46.00		4.10		2.50		36.21
W045057041WM*	**45.00**		45.00	55.00		10.00	57.00	+ 0.19 - 0.00	51.00	+ 0.19 - 0.00	4.10		2.50		39.19
W050062041WM*	**50.00**		50.00	60.00		10.00	62.00		56.00		4.10		2.50		40.22
W055067041WM*	**55.00**	- 0.03 - 0.10	55.00	65.00		10.00	67.00		61.00		4.10		2.50		40.78
W060072041WM*	**60.00**		60.00	70.00		10.00	72.00		66.00	+ 0.22 - 0.00	4.10		2.50		49.50
W070085051WM*	**70.00**		70.00	83.00		12.00	85.00	+ 0.22 - 0.00	78.00		5.10		3.00		50.74
W075090051WM*	**75.00**		75.00	88.00		12.00	90.00		83.00		5.10		3.00		51.57
W080095051WM*	**80.00**	- 0.04 - 0.12	80.00	93.00		12.00	95.00		88.00		5.10		3.00		53.63
W085100051WM*	**85.00**		85.00	98.00		12.00	100.00		93.00		5.10		3.00		57.75
W090105051WM*	**90.00**		90.00	103.00		12.00	105.00		98.00		5.10		3.00		61.59
W100113051WM*	**100.00**		100.00	111.40		10.20	113.00		107.00		5.60		2.00		61.88
W100115051WM*	**100.00**		100.00	113.00		12.00	115.00		108.00		5.10		3.00		64.20
W105120051WM*	**105.00**		105.00	118.00		12.00	120.00	+ 0.25 - 0.00	113.00		5.10		3.00		66.01
W110125051WM*	**110.00**		110.00	123.00		12.00	125.00		118.00		5.10		3.00		67.04
W115131051WM*	**115.00**		115.00	128.00		12.00	131.00		124.00	+ 0.25 - 0.00	5.10		3.00		69.22
W120139061WM*	**120.00**		120.00	136.00		14.00	139.00		129.00		6.10		4.00		71.05
W122135056WM*	**122.00**	- 0.04 - 0.14	122.00	133.40		10.20	135.00		129.00		5.60		2.00		73.88
W125140051WM*	**125.00**		125.00	138.00		12.00	140.00		133.00		5.10		3.00		76.99
W130149061WM*	**130.00**		130.00	146.00		14.00	149.00		139.00		6.10		4.00		77.24
W140155061WM*	**140.00**		140.00	153.00		14.00	155.00		145.00		6.10		4.00		79.22
W140159061WM*	**140.00**		140.00	156.00		14.00	159.00		149.00		6.10		4.00		80.44

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

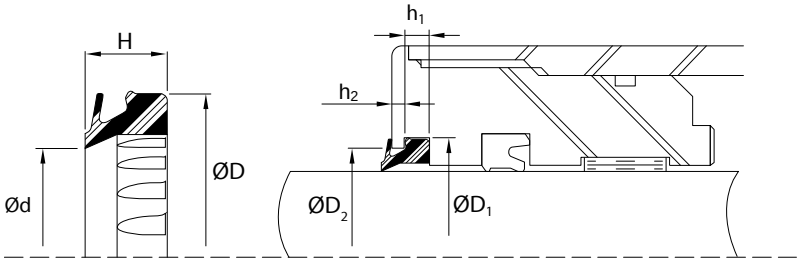
WM series - Polyurethane

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W145158056WM*	**145.00**	- 0.04 / - 0.14	145.00	156.40		10.20	158.00	+ 0.25 / - 0.00	151.00	+ 0.25 / - 0.00	5.60	+ 0.20 / - 0.00	2.00	+ 0.10 / - 0.00	82.51
W150169061WM*	**150.00**		150.00	166.00		14.00	169.00		159.00		6.10		4.00		83.49
W154173061WM*	**154.00**		154.00	170.00		14.00	173.00		163.00		6.10		4.00		85.88
W160179061WM*	**160.00**		160.00	176.00		14.00	179.00		169.00		6.10		4.00		86.63
W165181061WM*	**165.00**		165.00	178.00		14.00	181.00		171.00		6.10		4.00		87.78
W168181056WM*	**168.00**		168.00	179.40		10.20	181.00	+ 0.29 / - 0.00	175.00		5.60		2.00		89.43
W170189061WM*	**170.00**		170.00	186.00		14.00	189.00		179.00		6.10		4.00		173.20
W190203056WM*	**190.00**		190.00	201.40		10.20	203.00		197.00		5.60		2.00		101.44
W190209061WM*	**190.00**		190.00	206.00		14.00	209.00		199.00		6.10		4.00		129.45
W200223083WM*	**200.00**	- 0.05 / - 0.17	200.00	220.00		20.00	223.00		211.00		8.30		4.80		148.60
W210233083WM*	**210.00**		210.00	230.00		20.00	233.00		221.00		8.30		4.80		174.89
W220243083WM*	**220.00**		220.00	240.00		20.00	243.00		231.00		8.30		4.80		201.01
W230253083WM*	**230.00**		230.00	250.00		20.00	253.00		241.00		8.30		4.80		249.60
W260283083WM*	**260.00**	-0.06/-0.19	260.00	280.00		20.00	283.00	+0.32/-0.00	271.00	+0.32/-0.00	8.30		4.80		301.20

WM/842 - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Hythane	-49°F to +230°F (-45°C to +110°C)	< 13 ft/s (4 m/s)



The **WM/842-style** is a heavy-duty snap-in rod wiper designed for harsh, highly contaminated environments such as mining, agriculture, and off-highway equipment. It features a protective debris guard/dust lip that shields the gland housing to prevent contamination and moisture ingress, along with a ribbed internal diameter that improves stability, reduces friction, and prevents pressure trapping and wiper blow-out.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W020026040WM/842*	**20.00**	-0.02/-0.07	20.00	26.00	3.50	6.00	26.00	+0.13/-0.00	24.00	+0.13/-0.00	4.00	+ 0.20 / - 0.00	1.00	+ 0.10 / - 0.00	43.80
W032040050WM/842*	**32.00**	-0.03/-0.09	32.00	40.00	4.50	8.00	40.00	+0.16/-0.00	37.50	+0.16/-0.00	5.00		1.50		27.18

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WM/842 - HYTHANE

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	$
W035045063WM/842*	**35.00**	- 0.03 - 0.09	35.00	45.00	5.80	10.00	45.00	+ 0.16 - 0.00	42.00	+ 0.16 - 0.00	6.30	+ 0.20 - 0.00	1.50	+ 0.10 - 0.00	27.66
W036044050WM/842*	**36.00**		36.00	44.00	4.50	8.00	44.00		41.50		5.00		1.50		28.08
W038046063WM/842*	**38.00**		38.00	46.00	5.80	8.00	46.00		43.00		5.30		1.50		28.26
W040048050WM/842*	**40.00**		40.00	48.00	4.50	8.00	48.00		45.50		5.00		1.50		28.56
W045053050WM/842*	**45.00**		45.00	53.00	4.50	8.00	53.00	+ 0.19 - 0.00	50.50	+ 0.19 - 0.00	5.00		1.50		28.98
W050058050WM/842*	**50.00**		50.00	58.00	4.50	8.00	58.00		55.50		5.00		1.50		29.46
W055065063WM/842*	**55.00**	- 0.03 - 0.10	55.00	65.00	5.80	10.00	65.00		62.00		6.30		1.50		29.46
W056066063WM/842*	**56.00**		56.00	66.00	5.80	10.00	66.00		63.00		6.30		1.50		32.34
W060070063WM/842*	**60.00**		60.00	70.00	5.80	10.00	70.00		67.00		6.30		1.50		43.74
W060072041WM/842*	**60.00**		60.00	72.00	3.60	10.00	72.00		67.00		4.10		2.50		34.08
W063073063WM/842*	**63.00**		63.00	73.00	5.80	10.00	73.00		70.00		6.30		1.50		35.46
W070082080WM/842*	**70.00**		70.00	82.60	7.50	12.00	82.60	+ 0.22 - 0.00	78.40	+ 0.22 - 0.00	8.00		2.00		34.08
W070085051WM/842*	**70.00**		70.00	85.00	4.60	12.00	85.00		78.00		5.10		3.00		38.82
W075090051WM/842*	**75.00**		75.00	90.00	4.60	12.00	90.00		83.00		5.10		3.00		37.44
W080090063WM/842*	**80.00**		80.00	90.00	5.80	10.00	90.00		87.00		6.30		1.50		37.44
W080095510WM/842*	**80.00**		80.00	95.00	4.60	12.00	95.00		88.00		5.10		3.00		40.08
W085097080WM/842*	**85.00**	- 0.04 - 0.12	85.00	97.60	7.50	12.00	97.60		93.40		8.00		2.00		55.62
W085100051WM/842*	**85.00**		85.00	100.00	4.60	12.00	100.00		93.00		5.10		3.00		40.92
W090102071WM/842*	**90.00**		90.00	102.20	6.60	12.40	102.20		96.00		7.10		2.80		43.92
W090102080WM/842*	**90.00**		90.00	102.60	7.50	12.00	102.60		98.40		8.00		2.00		61.86
W090105051WM/842*	**90.00**		90.00	105.00	4.60	12.00	105.00		98.00		5.10		3.00		41.64
W095110095WM/842*	**95.00**		95.00	110.00	9.00	14.00	110.00		105.00		9.50		2.80		67.74
W100112071WM/842*	**100.00**		100.00	112.20	6.60	12.40	112.20		106.00		7.10		2.80		46.08
W100114080WM/842*	**100.00**		100.00	114.00	7.50	12.00	114.00		109.90		8.00		1.50		64.38
W110115051WM/842*	**100.00**		100.00	115.00	4.60	12.00	115.00		108.00		5.10		3.00		77.34
W100115095WM/842*	**100.00**		100.00	115.00	9.00	14.00	115.00		110.00		9.50		2.00		57.00
W105120095WM/842*	**105.00**		105.00	120.00	9.00	14.00	120.00		115.00		9.50		2.50		62.82
W110125051WM/842*	**110.00**		110.00	125.00	4.60	12.00	125.00	+ 0.25 - 0.00	118.00	+ 0.25 - 0.00	5.10		3.00		50.94
W110125095WM/842*	**110.00**		110.00	125.00	9.00	14.00	125.00		120.00		9.50		2.00		53.10
W120135095WM/842*	**120.00**		120.00	135.00	9.00	14.00	135.00		130.00		9.50		2.00		56.76
W125137076WM/842*	**125.00**	- 0.04 - 0.14	125.00	137.20	7.10	12.90	137.20		131.00		7.60		2.80		57.18
W125140051WM/842*	**125.00**		125.00	140.00	4.60	12.00	140.00		133.00		5.10		3.00		58.20
W125140095WM/842*	**125.00**		125.00	140.00	9.00	14.00	140.00		135.00		9.50		2.00		59.28
W130145095WM/842*	**130.00**		130.00	145.00	9.00	14.00	145.00		140.00		9.50		2.25		78.84
W140152076WM/842*	**140.00**		140.00	152.20	7.10	12.90	152.20		146.00		7.60		2.80		62.94
W140155095WM/842*	**140.00**		140.00	155.00	9.00	14.00	155.00		150.00		9.50		2.00		82.20
W145160095WM/842*	**145.00**		145.00	160.00	9.00	14.00	160.00		155.00		9.50		2.25		83.88
W150169061WM/842*	**150.00**		150.00	169.00	5.60	14.00	169.00		159.00		6.10		4.00		85.26
W155170095WM/842*	**155.00**		155.00	170.00	9.00	14.00	170.00		165.00		9.50		2.25		83.52
W170189061WM/842*	**170.00**		170.00	189.00	5.60	14.00	189.00	+ 0.29 - 0.00	179.00	+ 0.29 - 0.00	6.10		4.00		75.00
W175190095WM/842*	**175.00**		175.00	190.00	9.00	14.00	190.00		185.00		9.50		2.25		89.10
W180195095WM/842*	**180.00**		180.00	195.00	9.00	14.00	195.00		190.00		9.50		2.25		110.64
W190209061WM/842*	**190.00**	- 0.05 - 0.17	190.00	209.00	5.60	14.00	209.00		199.00		6.10		4.00		98.28
W200223083WM/842*	**200.00**		200.00	223.00	7.80	20.00	223.00		211.00		8.30		4.80		104.16
W215230095WM/842*	**215.00**		215.00	230.00	9.00	14.00	230.00		225.00		9.50		2.00		86.88
W220240102WM/842*	**220.00**		220.00	240.00	9.70	18.00	240.00		230.00		10.20		3.80		100.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W230250102WM/842*	**230.00**	- 0.05 / - 0.17	230.00	250.00	9.70	18.00	250.00	+0.29/-0.00	240.00	+0.29/-0.00	10.20	+ 0.20 / - 0.00	3.80	+ 0.10 / - 0.00	101.76
W235255102WM/842*	**235.00**	↓	235.00	255.00	9.70	18.00	255.00	- 0.32 / - 0.00	245.00	- 0.32 / - 0.00	10.20	↓	3.80	↓	100.20
W250270102WM/842*	**250.00**	↓	250.00	270.00	9.70	18.00	270.00	↓	260.00	↓	10.20		3.80		107.52
W260280102WM/842*	**260.00**	- 0.06 / - 0.19	260.00	280.00	9.70	18.00	280.00		270.00		10.20		3.80		108.12
W265285102WN/842*	**265.00**	↓	265.00	285.00	9.70	18.00	285.00		O/R		10.20		3.80		188.10
W295315102WM/842*	**295.00**	↓	295.00	315.00	9.70	18.00	315.00	↓	305.00	↓	10.20		3.80		115.50
W320340102WM/842*	**320.00**	- 0.06/- 0.20	320.00	340.00	9.70	18.00	340.00	- 0.36 / - 0.00	330.00	- 0.36 / - 0.00	10.20		3.80		123.36
W335355102WM/842*	**335.00**	- 0.06 / - 0.19	335.00	355.00	9.70	18.00	355.00	↓	345.00	↓	10.20		3.80		127.98
W350370102WM/842*	**350.00**	↓	350.00	370.00	9.70	18.00	370.00		360.00		10.20		3.80		140.22
W370390102WM/842*	**370.00**		370.00	390.00	9.70	18.00	390.00		O/R		10.20		3.80		262.62
W380400125WM/842*	**380.00**	↓	380.00	400.00	12.00	18.00	400.00	↓	393.50	↓	12.50		2.30		155.82
W415435102WM/842*	**415.00**	- 0.07 / - 0.22	415.00	435.00	9.70	18.00	435.00	- 0.40 / - 0.00	425.00	- 0.40 / - 0.00	10.20		3.80		173.34
W420445125WM/842*	**420.00**	↓	420.00	445.00	12.00	18.00	445.00	↓	O/R	↓	12.50		2.30		412.20
W445465102WM/842*	**445.00**	↓	445.00	465.00	9.70	18.00	465.00	↓	O/R	↓	10.20	↓	3.80	↓	315.90

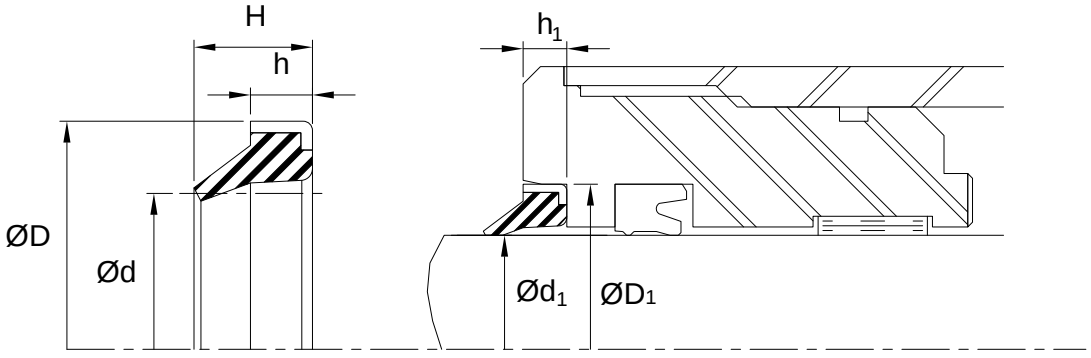
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



WN - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Nitrile/Steel	-40°F to +212°F (-40°C to +100°C)	< 13 ft/s (4 m/s)



The **WN-style** is a metal-clad, press-in wiper. Its protruding, sharp-edge wiping/scraping lip effectively keeps the foreign particles away from the gland area.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W006012050WN*	**6.00**	+ 0.00 - 0.04	6.00	12.00	5.00	8.00	12.00	+ 0.02 - 0.00	5.00	+ 0.50 - 0.00	3.79
W006013030WN	**6.00**		6.00	13.00	3.00	4.50	13.00		3.00		3.79
W006013040WN*	**6.00**		6.00	13.00	4.00	6.00	13.00		4.00		3.79
W006014050WN*	**6.00**		6.00	14.00	5.00	8.00	14.00		5.00		3.79
W008014033WN*	**8.00**		8.00	14.00	3.30	5.00	14.00		3.30		3.79
W008014035WN*	**8.00**		8.00	14.00	3.50	5.00	14.00		3.50		0.00
W008015030WN*	**8.00**		8.00	15.00	3.00	4.50	15.00		3.00		3.79
W008018060WN*	**8.00**		8.00	18.00	6.00	9.00	18.00		6.00		3.79
W008022030WN*	**8.00**		8.00	22.00	3.00	4.50	22.00	+0.03/-0.00	3.00		3.91
W010016030WN	**10.00**		10.00	16.00	3.00	4.50	16.00	+ 0.02 - 0.00	3.00		3.40
W010016050WN*	**10.00**		10.00	16.00	5.00	8.00	16.00		5.00		3.79
W010018050WN*	**10.00**		10.00	18.00	5.00	8.00	18.00		5.00		3.79
W010020050WN*	**10.00**		10.00	20.00	5.00	8.00	20.00		5.00		3.79
W012018035WN	**12.00**		12.00	18.00	3.50	5.00	18.00		3.50		4.86
W012018040WN*	**12.00**		12.00	18.00	4.00	6.00	18.00		4.00		3.79
W012018050WN*	**12.00**		12.00	18.00	5.00	8.00	18.00		5.00		3.79
W012020040WN	**12.00**		12.00	20.00	4.00	6.00	20.00	+ 0.03 - 0.00	4.00		3.40
W012022050WN*	**12.00**		12.00	22.00	5.00	8.00	22.00		5.00		3.67
W014019030WN*	**14.00**		14.00	19.80	3.00	4.50	19.80	+0.02/-0.00	3.00		3.79
W014020030WN*	**14.00**		14.00	20.00	3.00	4.50	20.00	+ 0.03 - 0.00	3.00		3.79
W014020035WN	**14.00**		14.00	20.00	3.50	5.00	20.00		3.50		3.79
W014020050WN*	**14.00**		14.00	20.00	5.00	8.00	20.00		5.00		3.79

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W014022030WN	**14.00**	+ 0.00 - 0.04	14.00	22.00	3.00	4.50	22.00	+ 0.03 - 0.00	3.00	+ 0.50 - 0.00	3.91
W014024070WN*	**14.00**		14.00	24.00	7.00	10.00	24.00		7.00		3.91
W014025050WN	**14.00**		14.00	25.00	5.00	8.00	25.00		5.00		3.91
W015021035WN*	**15.00**		15.00	21.00	3.50	5.00	21.00		3.50		3.91
W015022030WN*	**15.00**		15.00	22.00	3.00	4.50	22.00		3.00		3.91
W015025050WN	**15.00**		15.00	25.00	5.00	8.00	25.00		5.00		3.40
W015025070WN*	**15.00**		15.00	25.00	7.00	10.00	25.00		7.00		3.91
W016022030WN	**16.00**		16.00	22.00	3.00	4.50	22.00		3.00		9.93
W016022050WN*	**16.00**		16.00	22.00	5.00	8.00	22.00		5.00		3.91
W016024035WN	**16.00**		16.00	24.00	3.50	4.50	24.00		3.50		3.91
W016024050WN	**16.00**		16.00	24.00	5.00	8.00	24.00		5.00		3.91
W016026035WN*	**16.00**		16.00	26.00	3.50	5.50	26.00		3.50		3.91
W016026040WN*	**16.00**		16.00	26.00	4.00	6.00	26.00		4.00		0.00
W016026050WN	**16.00**		16.00	26.00	5.00	8.00	26.00		5.00		5.59
W016026070WN*	**16.00**		16.00	26.00	7.00	10.00	26.00		7.00		3.91
W016028050WN	**16.00**		16.00	28.00	5.00	8.00	28.00		5.00		3.91
W017022050WN*	**17.00**		17.00	22.00	5.00	8.00	22.00		5.00		3.91
W018024030WN*	**18.00**		18.00	24.00	3.00	4.50	24.00		3.00		3.91
W018024050WN*	**18.00**		18.00	24.00	5.00	8.00	24.00		5.00		3.91
W018026050WN	**18.00**		18.00	26.00	5.00	8.00	26.00		5.00		3.91
W018026070WN*	**18.00**		18.00	26.00	7.00	10.00	26.00		7.00		3.91
W018028050WN	**18.00**		18.00	28.00	5.00	8.00	28.00		5.00		3.91
W018028055WN*	**18.00**		18.00	28.00	5.50	8.50	28.00		5.50		0.00
W018028070WN	**18.00**		18.00	28.00	7.00	10.00	28.00		7.00		7.07
W018030030WN	**18.00**		18.00	30.00	3.00	4.50	30.00		3.00		3.91
W018032050WN	**18.00**		18.00	32.00	5.00	8.00	32.00	+ 0.04 - 0.00	5.00		4.49
W018035050WN*	**18.00**		18.00	35.00	5.00	8.00	35.00		5.00		4.49
W019026050WN*	**19.00**		19.00	26.00	5.00	8.00	26.00	+ 0.03 - 0.00	5.00		3.91
W020026035WN	**20.00**		20.00	26.00	3.50	5.00	26.00		3.50		3.91
W020026050WN	**20.00**		20.00	26.00	5.00	8.00	26.00		5.00		13.16
W020028035WN	**20.00**		20.00	28.00	3.50	5.00	28.00		3.50		3.20
W020028050WN	**20.00**		20.00	28.00	5.00	8.00	28.00		5.00		3.40
W020030040WN	**20.00**		20.00	30.00	4.00	6.00	30.00		4.00		3.67
W020030050WN	**20.00**		20.00	30.00	5.00	8.00	30.00		5.00		3.86
W020030070WN	**20.00**		20.00	30.00	7.00	10.00	30.00		7.00		3.67
W020033050WN	**20.00**		20.00	33.00	5.00	8.00	33.00	+ 0.04 - 0.00	5.00		4.49
W020035070WN*	**20.00**		20.00	35.00	7.00	10.00	35.00		7.00		4.49
W021028035WN*	**21.00**		21.00	28.00	3.50	5.00	28.00	+ 0.03 - 0.00	3.50		3.91
W022028050WN	**22.00**		22.00	28.00	5.00	8.00	28.00		5.00		3.67
W022030040WN	**22.00**		22.00	30.00	4.00	6.00	30.00		4.00		3.91
W022030050WN*	**22.00**		22.00	30.00	5.00	8.00	30.00		5.00		3.91
W022032050WN	**22.00**		22.00	32.00	5.00	8.00	32.00	+ 0.04 - 0.00	5.00		3.40
W022032070WN	**22.00**		22.00	32.00	7.00	10.00	32.00		7.00		3.40
W022034070WN*	**22.00**		22.00	34.00	7.00	10.00	34.00		7.00		4.49
W022035050WN	**22.00**		22.00	35.00	5.00	8.00	35.00		5.00		4.49
W022035070WN*	**22.00**		22.00	35.00	7.00	10.00	35.00		7.00		4.49

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WN series - NBR/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W023033050WN*	**23.00**	+ 0.00 - 0.04	23.00	33.00	5.00	8.00	33.00	+ 0.04 - 0.00	5.00	+ 0.50 - 0.00	4.49
W024032050WN*	**24.00**		24.00	32.00	5.00	8.00	32.00		5.00		4.49
W024035050WN*	**24.00**		24.00	35.00	5.00	8.00	35.00		5.00		4.49
W025031050WN	**25.00**		25.00	31.00	5.00	8.00	31.00		5.00		4.49
W025032050WN	**25.00**		25.00	32.00	5.00	8.00	32.00		5.00		4.49
W025033040WN	**25.00**		25.00	33.00	4.00	6.00	33.00		4.00		3.67
W025034050WN	**25.00**		25.00	34.00	5.00	8.00	34.00		5.00		4.49
W025035050WN	**25.00**		25.00	35.00	5.00	8.00	35.00		5.00		11.41
W025035070WN	**25.00**		25.00	35.00	7.00	10.00	35.00		7.00		3.67
W025037070WN	**25.00**		25.00	37.00	7.00	10.00	37.00		7.00		5.07
W025040070WN	**25.00**		25.00	40.00	7.00	10.00	40.00		7.00		5.07
W025045070WN*	**25.00**		25.00	45.00	7.00	10.00	45.00		7.00		5.64
W025047070WN*	**25.00**		25.00	47.00	7.00	10.00	47.00		7.00		6.34
W026032050WN*	**26.00**		26.00	32.00	5.00	8.00	32.00		5.00		4.49
W026034050WN*	**26.00**		26.00	34.00	5.00	8.00	34.00		5.00		4.49
W026035070WN*	**26.00**		26.00	35.00	7.00	10.00	35.00		7.00		4.49
W028035050WN	**28.00**		28.00	35.00	5.00	8.00	35.00		5.00		4.49
W028036050WN	**28.00**		28.00	36.00	5.00	8.00	36.00		5.00		5.07
W028038050WN	**28.00**		28.00	38.00	5.00	8.00	38.00		5.00		3.86
W028038070WN	**28.00**		28.00	38.00	7.00	10.00	38.00		7.00		3.40
W028040070WN	**28.00**		28.00	40.00	7.00	10.00	40.00		7.00		5.07
W028042050WN*	**28.00**		28.00	42.00	5.00	8.00	42.00		5.00		5.64
W028042070WN*	**28.00**		28.00	42.00	7.00	10.00	42.00		7.00		5.64
W028045070WN*	**28.00**		28.00	45.00	7.00	10.00	45.00		7.00		5.64
W030038050WN	**30.00**		30.00	38.00	5.00	8.00	38.00		5.00		5.07
W030040050WN	**30.00**		30.00	40.00	5.00	8.00	40.00		5.00		6.49
W030040070WN	**30.00**		30.00	40.00	7.00	10.00	40.00		7.00		4.17
W030042050WN	**30.00**		30.00	42.00	5.00	8.00	42.00		5.00		5.64
W030045050WN	**30.00**		30.00	45.00	5.00	8.00	45.00		5.00		5.64
W030045070WN	**30.00**		30.00	45.00	7.00	10.00	45.00		7.00		5.64
W030047050WN	**30.00**		30.00	47.00	5.00	8.00	47.00		5.00		6.34
W032040040WN	**32.00**		32.00	40.00	4.00	6.00	40.00		4.00		3.86
W032042050WN	**32.00**		32.00	42.00	5.00	8.00	42.00		5.00		4.62
W032042070WN	**32.00**		32.00	42.00	7.00	10.00	42.00		7.00		4.62
W032045040WN	**32.00**		32.00	45.00	4.00	6.00	45.00		4.00		4.62
W032045050WN	**32.00**		32.00	45.00	5.00	8.00	45.00		5.00		7.96
W032045070WN	**32.00**		32.00	45.00	7.00	10.00	45.00		7.00		4.17
W032048060WN	**32.00**		32.00	48.00	6.00	9.00	48.00		6.00		6.34
W035045050WN*	**35.00**		35.00	45.00	5.00	8.00	45.00		5.00		5.64
W035045070WN	**35.00**		35.00	45.00	7.00	10.00	45.00		7.00		6.60
W035047070WN	**35.00**		35.00	47.00	7.00	10.00	47.00		7.00		4.62
W035050070WN*	**35.00**		35.00	50.00	7.00	10.00	50.00		7.00		6.34
W035052070WN*	**35.00**		35.00	52.00	7.00	10.00	52.00	+ 0.05 - 0.00	7.00		7.09
W035053040WN*	**35.00**		35.00	53.00	4.00	6.00	53.00		4.00		#N/A
W036044050WN*	**36.00**		36.00	44.00	5.00	8.00	44.00	+ 0.04 - 0.00	5.00		5.64
W036045050WN	**36.00**		36.00	45.00	5.00	8.00	45.00		5.00		5.64

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W036045070WN	**36.00**	+ 0.00 - 0.04	36.00	45.00	7.00	10.00	45.00	+ 0.04 - 0.00	7.00	+ 0.50 - 0.00	5.64
W036046050WN*	**36.00**		36.00	46.00	5.00	8.00	46.00		5.00		4.62
W036046070WN	**36.00**		36.00	46.00	7.00	10.00	46.00		7.00		6.34
W038048070WN	**38.00**		38.00	48.00	7.00	10.00	48.00		7.00		5.10
W038053050WN	**38.00**		38.00	53.00	5.00	8.00	53.00	+ 0.05 - 0.00	5.00		7.09
W038058070WN*	**38.00**		38.00	58.00	7.00	10.00	58.00		7.00		8.19
W040048050WN	**40.00**	+ 0.00 - 0.05	40.00	48.00	5.00	8.00	48.00	+ 0.04 - 0.00	5.00		6.34
W040050050WN	**40.00**		40.00	50.00	5.00	8.00	50.00		5.00		4.62
W040050070WN	**40.00**		40.00	50.00	7.00	10.00	50.00		7.00		4.62
W040052050WN	**40.00**		40.00	52.00	5.00	8.00	52.00	+ 0.05 - 0.00	5.00		5.10
W040052070WN	**40.00**		40.00	52.00	7.00	10.00	52.00		7.00		7.09
W040056050WN	**40.00**		40.00	56.00	5.00	8.00	56.00		5.00		8.19
W040060070WN	**40.00**		40.00	60.00	7.00	10.00	60.00		7.00		8.19
W040062070WN	**40.00**		40.00	62.00	7.00	10.00	62.00		7.00		8.94
W042050070WN*	**42.00**		42.00	50.00	7.00	10.00	50.00		7.00		6.34
W042052050WN*	**42.00**		42.00	52.00	5.00	8.00	52.00		5.00		6.34
W042052070WN	**42.00**		42.00	52.00	7.00	10.00	52.00		7.00		5.10
W045053050WN*	**45.00**		45.00	53.00	5.00	8.00	53.00		5.00		7.09
W045055050WN	**45.00**		45.00	55.00	5.00	8.00	55.00		5.00		5.10
W045055070WN	**45.00**		45.00	55.00	7.00	10.00	55.00		7.00		5.10
W045056050WN	**45.00**		45.00	56.00	5.00	8.00	56.00		5.00		8.19
W045057070WN	**45.00**		45.00	57.00	7.00	10.00	57.00		7.00		5.59
W045060070WN	**45.00**		45.00	60.00	7.00	10.00	60.00		7.00		5.59
W045065070WN	**45.00**		45.00	65.00	7.00	10.00	65.00		7.00		8.94
W048060070WN	**48.00**		48.00	60.00	7.00	10.00	60.00		7.00		8.19
W050056050WN	**50.00**		50.00	56.00	5.00	8.00	56.00		5.00		5.10
W050058050WN*	**50.00**		50.00	58.00	5.00	8.00	58.00		5.00		8.19
W050060050WN	**50.00**		50.00	60.00	5.00	8.00	60.00		5.00		8.02
W050060070WN	**50.00**		50.00	60.00	7.00	10.00	60.00		7.00		9.01
W050062050WN	**50.00**		50.00	62.00	5.00	8.00	62.00		5.00		8.94
W050062070WN	**50.00**		50.00	62.00	7.00	10.00	62.00		7.00		8.94
W050065050WN	**50.00**		50.00	65.00	5.00	8.00	65.00		5.00		8.94
W050065070WN	**50.00**		50.00	65.00	7.00	10.00	65.00		7.00		6.43
W050070070WN	**50.00**		50.00	70.00	7.00	10.00	70.00		7.00		9.72
W050085070WN*	**50.00**		50.00	85.00	7.00	10.00	85.00		7.00		12.16
W052062070WN	**52.00**		52.00	62.00	7.00	10.00	62.00		7.00		10.95
W055063070WN	**55.00**		55.00	63.00	7.00	10.00	63.00		7.00		6.10
W055065050WN	**55.00**		55.00	65.00	5.00	8.00	65.00		5.00		8.94
W055065070WN	**55.00**		55.00	65.00	7.00	10.00	65.00		7.00		5.85
W055068040WN*	**55.00**		55.00	68.00	4.00	6.00	68.00		4.00		9.72
W055068070WN	**55.00**		55.00	68.00	7.00	10.00	68.00		7.00		9.72
W055080050WN*	**55.00**		55.00	80.00	5.00	8.00	80.00		5.00		11.70
W056065050WN*	**56.00**		56.00	65.00	5.00	8.00	65.00		5.00		8.94
W056065070WN	**56.00**		56.00	65.00	7.00	10.00	65.00		7.00		6.10
W056066050WN	**56.00**		56.00	66.00	5.00	8.00	66.00		5.00		9.72
W056066070WN	**56.00**		56.00	66.00	7.00	10.00	66.00		7.00		6.32

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WN series - NBR/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W056071070WN	**56.00**	+ 0.00 - 0.05	56.00	71.00	7.00	10.00	71.00	+ 0.05 - 0.00	7.00	+ 0.50 - 0.00	10.69
W060068050WN*	**60.00**		60.00	68.00	5.00	8.00	68.00		5.00		9.72
W060070050WN	**60.00**		60.00	70.00	5.00	8.00	70.00		5.00		9.72
W060070070WN	**60.00**		60.00	70.00	7.00	10.00	70.00		7.00		9.71
W060072050WN	**60.00**		60.00	72.00	5.00	8.00	72.00		5.00		10.69
W060074050WN	**60.00**		60.00	74.00	5.00	8.00	74.00		5.00		10.69
W060075070WN	**60.00**		60.00	75.00	7.00	10.00	75.00		7.00		7.07
W060080070WN	**60.00**		60.00	80.00	7.00	10.00	80.00		7.00		11.70
W063073050WN	**63.00**		63.00	73.00	5.00	8.00	73.00		5.00		10.69
W063073070WN	**63.00**		63.00	73.00	7.00	10.00	73.00		7.00		10.69
W063075070WN	**63.00**		63.00	75.00	7.00	10.00	75.00		7.00		6.10
W063080050WN*	**63.00**		63.00	80.00	5.00	8.00	80.00		5.00		11.70
W063083050WN	**63.00**		63.00	83.00	5.00	8.00	83.00		5.00		11.70
W063085070WN*	**63.00**		63.00	85.00	7.00	10.00	85.00		7.00		12.16
W065075050WN	**65.00**	+ 0.00 - 0.06	65.00	75.00	5.00	8.00	75.00		5.00		10.69
W065075070WN	**65.00**		65.00	75.00	7.00	10.00	75.00		7.00		7.07
W065080070WN	**65.00**		65.00	80.00	7.00	10.00	80.00		7.00		11.70
W065085070WN	**65.00**		65.00	85.00	7.00	10.00	85.00		7.00		12.16
W067083070WN*	**67.00**		67.00	83.00	7.00	10.00	83.00		7.00		12.16
W070080050WN	**70.00**		70.00	80.00	5.00	8.00	80.00		5.00		11.70
W070080070WN	**70.00**		70.00	80.00	7.00	10.00	80.00		7.00		8.25
W070085070WN*	**70.00**		70.00	85.00	7.00	10.00	85.00		7.00		12.16
W070090070WN	**70.00**		70.00	90.00	7.00	10.00	90.00		7.00		13.63
W072082070WN	**72.00**		72.00	82.00	7.00	10.00	82.00		7.00		12.16
W073089070WN*	**73.00**		73.00	89.00	7.00	10.00	89.00		7.00		12.16
W075083070WN*	**75.00**		75.00	83.00	7.00	10.00	83.00		7.00		9.49
W075085070WN	**75.00**		75.00	85.00	7.00	10.00	85.00		7.00		9.03
W075087050WN	**75.00**		75.00	87.00	5.00	8.00	87.00		5.00		13.63
W075090070WN	**75.00**		75.00	90.00	7.00	10.00	90.00		7.00		13.63
W078088070WN	**78.00**	+ 0.00 - 0.09	78.00	88.00	7.00	10.00	88.00		7.00		15.25
W080088050WN*	**80.00**		80.00	88.00	5.00	8.00	88.00		5.00		13.63
W080088070WN	**80.00**		80.00	88.00	7.00	10.00	88.00		7.00		13.63
W080090070WN	**80.00**		80.00	90.00	7.00	10.00	90.00		7.00		9.49
W080095070WN	**80.00**		80.00	95.00	7.00	10.00	95.00		7.00		15.18
W080100060WN*	**80.00**		80.00	100.00	6.00	9.00	100.00		6.00		16.83
W080100120WN	**80.00**		80.00	100.00	12.00	16.00	100.00		12.00		18.62
W082092070WN	**82.00**		82.00	92.00	7.00	10.00	92.00		7.00		15.18
W085095070WN	**85.00**		85.00	95.00	7.00	10.00	95.00		7.00		19.38
W090100050WN*	**90.00**		90.00	100.00	5.00	8.00	100.00		5.00		16.83
W090100070WN	**90.00**		90.00	100.00	7.00	10.00	100.00		7.00		16.83
W090110070WN	**90.00**		90.00	110.00	7.00	10.00	110.00		7.00		19.94
W095105070WN	**95.00**		95.00	105.00	7.00	10.00	105.00		7.00		15.10
W095106070WN	**95.00**		95.00	106.00	7.00	10.00	106.00		7.00		18.19
W100110050WN*	**100.00**		100.00	110.00	5.00	8.00	110.00		5.00		19.94
W100110070WN	**100.00**		100.00	110.00	7.00	10.00	110.00		7.00		15.78
W100115070WN*	**100.00**		100.00	115.00	7.00	10.00	115.00		7.00		21.69

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

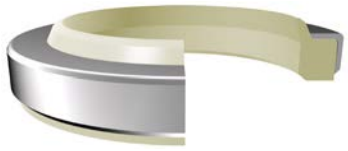
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W100115080WN*	**100.00**	+ 0.00 - 0.09	100.00	115.00	8.00	10.00	115.00	+ 0.05 - 0.00	8.00	+ 0.50 - 0.00	21.69
W100115090WN*	**100.00**		100.00	115.00	9.00	12.00	115.00		9.00		21.69
W105115070WN	**105.00**	+ 0.00 - 0.13	105.00	115.00	7.00	10.00	115.00		7.00		17.24
W110120070WN	**110.00**		110.00	120.00	7.00	10.00	120.00		7.00		18.26
W110122070WN*	**110.00**		110.00	122.00	7.00	10.00	122.00	+ 0.06 - 0.00	7.00		25.28
W110125070WN*	**110.00**		110.00	125.00	7.00	10.00	125.00		7.00		25.28
W110125090WN	**110.00**		110.00	125.00	9.00	12.00	125.00		9.00		25.28
W115125070WN	**115.00**		115.00	125.00	7.00	10.00	125.00		7.00		19.70
W120130070WN	**120.00**		120.00	130.00	7.00	10.00	130.00		7.00		22.63
W120135070WN*	**120.00**		120.00	135.00	7.00	10.00	135.00		7.00		28.12
W120140080WN*	**120.00**		120.00	140.00	8.00	12.00	140.00		8.00		30.35
W123147090WN*	**123.00**		123.00	147.00	9.00	12.00	147.00		9.00		30.35
W125135070WN	**125.00**		125.00	135.00	7.00	10.00	135.00		7.00		28.12
W125137070WN*	**125.00**		125.00	137.00	7.00	10.00	137.00		7.00		30.35
W125140090WN	**125.00**		125.00	140.00	9.00	12.00	140.00		9.00		18.72
W130140070WN	**130.00**		130.00	140.00	7.00	10.00	140.00		7.00		30.35
W130145090WN	**130.00**		130.00	145.00	9.00	12.00	145.00		9.00		19.94
W135145070WN*	**135.00**		135.00	145.00	7.00	10.00	145.00		7.00		32.69
W135150070WN*	**135.00**		135.00	150.00	7.00	10.00	150.00		7.00		32.69
W135150090WN	**135.00**		135.00	150.00	9.00	12.00	150.00		9.00		34.63
W140150070WN*	**140.00**		140.00	150.00	7.00	10.00	150.00		7.00		34.63
W140155090WN	**140.00**		140.00	155.00	9.00	12.00	155.00		9.00		21.90
W145160090WN*	**145.00**		145.00	160.00	9.00	12.00	160.00		9.00		40.56
W150165090WN*	**150.00**		150.00	165.00	9.00	12.00	165.00		9.00		66.52
W150166080WN	**150.00**		150.00	166.00	8.00	12.00	166.00		8.00		45.05
W160175070WN*	**160.00**		160.00	175.00	7.00	10.00	175.00		7.00		53.11
W160175090WN	**160.00**		160.00	175.00	9.00	12.00	175.00		9.00		37.91
W160176080WN*	**160.00**		160.00	176.00	8.00	12.00	176.00		8.00		53.11
W163175070WN*	**163.00**		163.00	175.00	7.00	10.00	175.00		7.00		53.11
W170185090WN*	**170.00**		170.00	185.00	9.00	12.00	185.00		9.00		61.88
W170185100WN	**170.00**		170.00	185.00	10.00	14.00	185.00		10.00		61.88
W180195100WN	**180.00**		180.00	195.00	10.00	14.00	195.00	+ 0.07 - 0.00	10.00		98.29
W185200100WN*	**185.00**		185.00	200.00	10.00	14.00	200.00		10.00		71.88
W185201080WN*	**185.00**		185.00	201.00	8.00	12.00	201.00		8.00		146.10
W190202090WN*	**190.00**		190.00	202.00	9.00	12.00	202.00		9.00		87.94
W190220090WN*	**190.00**		190.00	220.00	9.00	12.00	220.00		9.00		98.43
W200215090WN*	**200.00**		200.00	215.00	9.00	12.00	215.00		9.00		98.43
W200220120WN*	**200.00**		200.00	220.00	12.00	16.00	220.00		12.00		69.16
W210230120WN*	**210.00**		210.00	230.00	12.00	16.00	230.00		12.00		107.90
W220240090WN*	**220.00**		220.00	240.00	9.00	12.00	240.00		9.00		205.02
W220240120WN	**220.00**		220.00	240.00	12.00	16.00	240.00		12.00		118.58
W230246080WN*	**230.00**		230.00	246.50	8.00	12.00	246.50		8.00		190.98
W240260120WN*	**240.00**		240.00	260.00	12.00	16.00	260.00	+ 0.08 - 0.00	12.00		146.81
W250270120WN*	**250.00**		250.00	270.00	12.00	16.00	270.00		12.00		159.83
W270295120WN*	**270.00**		270.00	295.00	12.00	16.00	295.00		12.00		211.89
W280300120WN	**280.00**		280.00	300.00	12.00	16.00	300.00		12.00		211.89

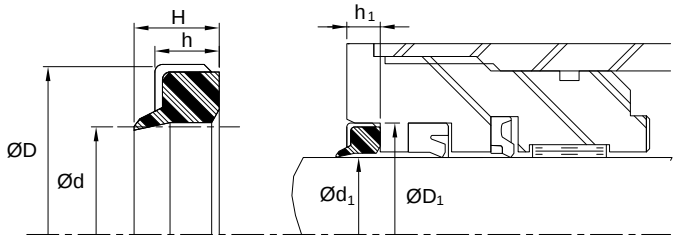
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WN series - NBR/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W310340160WN*	**310.00**	+ 0.00 - 0.13	310.00	340.00	16.00	22.00	340.00	+0.03/-0.00	16.00	+ 0.50 - 0.00	279.43
W320340120WN*	**320.00**		320.00	340.00	12.00	16.00	340.00	+ 0.09 - 0.00	12.00		445.57
W360380120WN*	**360.00**		360.00	380.00	12.00	16.00	380.00		12.00		O/R
W360380150WN*	**360.00**		360.00	380.00	15.00	18.00	380.00		15.00		445.66
W390420160WN*	**390.00**		390.00	420.00	16.00	22.00	420.00		16.00		445.66
W400420120WN*	**400.00**		400.00	420.00	12.00	16.00	420.00	+0.10/-0.00	12.00		407.92

WO - Rod wipers - Metric





Standard Material	Temperature Range	Surface Speed
Polyurethane/Steel	-22°F to +212°F (-30°C to +100°C)	<3.3 ft/s (1 m/s)

Manufactured from highly abrasion resistant polyurethane and bonded to a metal case, this press-in wiper is used to wipe and scrape tough materials especially on mobile construction equipment.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W006016050WO*	**6.30**	+ 0.00 - 0.04	6.30	16.00	5.00	7.00	16.00	+ 0.02 - 0.00	5.00	+ 0.50 - 0.00	12.78
W007017050WO*	**7.10**		7.10	17.00	5.00	7.00	17.00		5.00		12.78
W008018050WO*	**8.00**		8.00	18.00	5.00	7.00	18.00		5.00		12.78
W009019050WO*	**9.00**		9.00	19.00	5.00	7.00	19.00	+ 0.03 - 0.00	5.00		12.78
W010020050WO*	**10.00**		10.00	20.00	5.00	7.00	20.00		5.00		16.23
W011021050WO*	**11.20**		11.20	21.00	5.00	7.00	21.00		5.00		16.23
W012020040WO*	**12.00**		12.00	20.00	4.00	6.00	20.00		4.00		18.76
W012023050WO*	**12.50**		12.50	23.00	5.00	7.00	23.00		5.00		17.62
W012025050WO*	**12.00**		12.00	25.00	5.00	7.00	25.00		5.00		17.62
W014024050WO*	**14.00**		14.00	24.00	5.00	7.00	24.00		5.00		17.62
W014025050WO*	**14.00**		14.00	25.00	5.00	7.00	25.00		5.00		17.79

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W015021050WO*	**15.00**	+ 0.00 - 0.04	15.00	21.00	5.00	7.00	21.00	+ 0.03 - 0.00	5.00	+ 0.50 - 0.00	21.36
W015025050WO*	**15.00**		15.00	25.00	5.00	7.00	25.00		5.00		12.93
W016022030WO	**16.00**		16.00	22.00	3.00	4.00	22.00		3.00		13.67
W016023050WO*	**16.00**		16.00	23.00	5.00	7.00	23.00		5.00		23.29
W016026050WO	**16.00**		16.00	26.00	5.00	7.00	26.00		5.00		19.22
W018028050WO*	**18.00**		18.00	28.00	5.00	7.00	28.00		5.00		13.73
W018028070WO	**18.00**		18.00	28.00	7.00	10.00	28.00		7.00		17.96
W018028070WO/PU7*	**18.00**		18.00	28.00	7.00	10.00	28.00		7.00		19.52
W018030060WO	**18.00**		18.00	30.00	6.00	9.00	30.00		6.00		19.22
W020028050WO*	**20.00**		20.00	28.00	5.00	7.00	28.00		5.00		24.08
W020030050WO	**20.00**		20.00	30.00	5.00	7.00	30.00		5.00		15.76
W020030070WO	**20.00**		20.00	30.00	7.00	10.00	30.00		7.00		22.18
W020032060WO	**20.00**		20.00	32.00	6.00	9.00	32.00	+ 0.04 - 0.00	6.00		20.95
W021032050WO*	**21.00**		21.00	32.00	5.00	9.00	32.00		5.00		20.95
W022032070WO	**22.00**		22.00	32.00	7.00	10.00	32.00		7.00		24.48
W022034060WO*	**22.00**		22.00	34.00	6.00	9.00	34.00		6.00		20.95
W022034060WO-1*	**22.40**		22.40	34.40	6.00	9.00	34.40		6.00		20.95
W025035050WO	**25.00**		25.00	35.00	5.00	7.00	35.00		5.00		16.42
W025035070WO	**25.00**		25.00	35.00	7.00	10.00	35.00		7.00		22.94
W025037060WO	**25.00**		25.00	37.00	6.00	9.00	37.00		6.00		16.63
W027039060WO*	**27.00**		27.00	39.00	6.00	9.00	39.00		6.00		22.92
W028038050WO	**28.00**		28.00	38.00	5.00	7.00	38.00		5.00		13.50
W028038070WO*	**28.00**		28.00	38.00	7.00	10.00	38.00		7.00		23.29
W028040060WO*	**28.00**		28.00	40.00	6.00	9.00	40.00		6.00		22.92
W028040070WO	**28.00**		28.00	40.00	7.00	10.00	40.00		7.00		22.92
W030040050WO	**30.00**		30.00	40.00	5.00	7.00	40.00		5.00		17.26
W030040070WO	**30.00**		30.00	40.00	7.00	10.00	40.00		7.00		23.29
W030042060WO	**30.00**		30.00	42.00	6.00	9.00	42.00		6.00		17.63
W030042070WO*	**30.00**		30.00	42.00	7.00	10.00	42.00		7.00		20.26
W030045070WO*	**30.00**		30.00	45.00	7.00	10.00	45.00		7.00		20.26
W030050095WO*	**30.00**		30.00	50.00	9.50	12.50	50.00		9.50		27.40
W031042070WO*	**31.70**		31.70	42.80	7.00	10.00	42.80		7.00		25.10
W031044070WO*	**31.50**		31.50	44.00	7.00	10.00	44.00		7.00		25.10
W031044070WO-1*	**31.75**		31.75	44.50	7.00	10.00	44.50		7.00		25.10
W032042050WO	**32.00**		32.00	42.00	5.00	7.00	42.00		5.00		17.90
W032042070WO	**32.00**		32.00	42.00	7.00	10.00	42.00		7.00		23.29
W032044070WO	**32.00**		32.00	44.00	7.00	10.00	44.00		7.00		25.10
W032045070WO	**32.00**		32.00	45.00	7.00	10.00	45.00		7.00		24.41
W032052080WO	**32.00**		32.00	52.00	8.00	11.00	52.00		8.00		29.59
W034046070WO*	**34.00**		34.00	46.00	7.00	10.00	46.00		7.00		27.40
W035045070WO	**35.00**		35.00	45.00	7.00	10.00	45.00		7.00		18.46
W035047070WO	**35.00**		35.00	47.00	7.00	10.00	47.00		7.00		19.08
W035047070WO-1*	**35.50**		35.50	47.50	7.00	10.00	47.50		7.00		27.40
W036045070WO	**36.00**		36.00	45.00	7.00	10.00	45.00		7.00		24.41
W036046070WO	**36.00**		36.00	46.00	7.00	10.00	46.00		7.00		24.78
W036050070WO*	**36.00**		36.00	50.00	7.00	10.00	50.00		7.00		31.55

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WO series - AU/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W038048070WO*	**38.00**	+ 0.00 - 0.04	38.00	48.00	7.00	10.00	48.00	+ 0.04 - 0.00	7.00	+ 0.50 - 0.00	19.53
W038050070WO	**38.00**		38.00	50.00	7.00	10.00	50.00		7.00		32.22
W038052075WO*	**38.40**	↓	38.40	52.00	7.50	10.50	52.00	+0.05/-0.00	7.50	↓	34.65
W040050050WO	**40.00**	+ 0.00 - 0.05	40.00	50.00	5.00	8.00	50.00	+ 0.04 - 0.00	5.00		38.01
W040050070WO	**40.00**		40.00	50.00	7.00	10.00	50.00		7.00		19.29
W040052070WO	**40.00**	+0.00/-4.00	40.00	52.00	7.00	10.00	52.00	+ 0.05 - 0.00	7.00		19.93
W040060076WO*	**40.00**	+ 0.00 - 0.05	40.00	60.00	7.60	10.60	60.00		7.60		35.81
W042052070WO*	**42.00**		42.00	52.00	7.00	10.00	52.00		7.00		32.92
W045055070WO	**45.00**		45.00	55.00	7.00	10.00	55.00		7.00		21.01
W045057070WO	**45.00**		45.00	57.00	7.00	10.00	57.00		7.00		21.45
W047059070WO*	**47.00**		47.00	59.00	7.00	10.00	59.00		7.00		32.92
W047062090WO*	**47.60**		47.60	62.00	9.00	12.00	62.00		9.00		41.33
W050060070WO	**50.00**		50.00	60.00	7.00	10.00	60.00		7.00		22.22
W050062070WO	**50.00**		50.00	62.00	7.00	10.00	62.00		7.00		22.81
W050065070WO*	**50.00**		50.00	65.00	7.00	10.00	65.00		7.00		27.01
W053067080WO*	**53.00**		53.00	67.00	8.00	11.00	67.00		8.00		27.01
W055065070WO	**55.00**		55.00	65.00	7.00	10.00	65.00		7.00		24.95
W055069080WO	**55.00**		55.00	69.00	8.00	11.00	69.00		8.00		26.43
W055070070WO	**55.00**		55.00	70.00	7.00	10.00	70.00		7.00		28.63
W056066070WO	**56.00**		56.00	66.00	7.00	10.00	66.00		7.00		27.01
W056070080WO	**56.00**		56.00	70.00	8.00	11.00	70.00		8.00		27.01
W060070070WO	**60.00**		60.00	70.00	7.00	10.00	70.00		7.00		26.93
W060074080WO	**60.00**		60.00	74.00	8.00	11.00	74.00		8.00		27.58
W060080100WO*	**60.00**		60.00	80.00	10.00	13.00	80.00		10.00		51.34
W063073070WO	**63.00**		63.00	73.00	7.00	10.00	73.00		7.00		29.40
W063075070WO	**63.00**		63.00	75.00	7.00	10.00	75.00		7.00		29.23
W063077080WO	**63.00**		63.00	77.00	8.00	11.00	77.00		8.00		38.10
W063078070WO	**63.00**	↓	63.00	78.00	7.00	10.00	78.00		7.00		31.33
W064078080WO*	**64.00**	+ 0.00 - 0.06	64.00	78.00	8.00	11.00	78.00		8.00		31.33
W065075070WO	**65.00**		65.00	75.00	7.00	10.00	75.00		7.00		28.49
W065079080WO	**65.00**		65.00	79.00	8.00	11.00	79.00		8.00		29.53
W067081080WO*	**67.00**		67.00	81.00	8.00	11.00	81.00		8.00		30.36
W070080070WO	**70.00**		70.00	80.00	7.00	10.00	80.00		7.00		30.36
W070084080WO	**70.00**		70.00	84.00	8.00	11.00	84.00		8.00		31.36
W070086105WO*	**70.00**		70.00	86.00	10.50	13.50	86.00		10.50		36.12
W070090100WO*	**70.00**		70.00	90.00	10.00	13.00	90.00		10.00		36.12
W071085080WO*	**71.00**		71.00	85.00	8.00	11.00	85.00		8.00		36.12
W075085070WO	**75.00**		75.00	85.00	7.00	10.00	85.00		7.00		32.33
W075089080WO	**75.00**	↓	75.00	89.00	8.00	11.00	89.00		8.00		33.36
W080090070WO	**80.00**	+ 0.00 - 0.09	80.00	90.00	7.00	10.00	90.00		7.00		35.56
W080094080WO	**80.00**		80.00	94.00	8.00	11.00	94.00		8.00		36.35
W080095070WO*	**80.00**		80.00	95.00	7.00	10.00	95.00		7.00		36.12
W080100120WO*	**80.00**		80.00	100.00	12.00	15.00	100.00		12.00		40.88
W085095070WO	**85.00**		85.00	95.00	7.00	10.00	95.00		7.00		37.05
W085099080WO	**85.00**		85.00	99.00	8.00	11.00	99.00		8.00		37.71
W090100070WO	**90.00**	↓	90.00	100.00	7.00	10.00	100.00	↓	7.00	↓	40.10

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Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W090104080WO	**90.00**	+ 0.00 - 0.09	90.00	104.00	8.00	11.00	104.00	+ 0.05 - 0.00	8.00	+ 0.50 - 0.00	40.88
W090110080WO*	**90.00**		90.00	110.00	8.00	11.00	110.00		8.00		48.86
W090110100WO*	**90.00**		90.00	110.00	10.00	13.00	110.00		10.00		48.86
W092106080WO*	**92.00**		92.00	106.00	8.00	11.00	106.00		8.00		48.86
W095109080WO	**95.00**		95.00	109.00	8.00	11.00	109.00		8.00		46.06
W100110070WO	**100.00**		100.00	110.00	7.00	10.00	110.00		7.00		47.88
W100114080WO	**100.00**		100.00	114.00	8.00	11.00	114.00		8.00		48.86
W100120100WO*	**100.00**		100.00	120.00	10.00	13.00	120.00		10.00		51.64
W105115070WO	**105.00**		105.00	115.00	7.00	10.00	115.00	+ 0.06 - 0.00	7.00		45.86
W105121090WO	**105.00**	+ 0.00 - 0.13	105.00	121.00	9.00	12.00	121.00		9.00		51.64
W106122090WO*	**106.00**		106.00	122.00	9.00	12.00	122.00		9.00		56.01
W108125090WO*	**108.00**		108.00	125.00	9.00	12.00	125.00		9.00		56.01
W110120070WO	**110.00**		110.00	120.00	7.00	10.00	120.00		7.00		54.47
W110126090WO	**110.00**		110.00	126.00	9.00	12.00	126.00		9.00		56.01
W112128060WO*	**112.00**		112.00	128.00	6.00	8.00	128.00		6.00		100.73
W112128090WO*	**112.00**		112.00	128.00	9.00	12.00	128.00		9.00		100.73
W115125070WO	**115.00**		115.00	125.00	7.00	10.00	125.00		7.00		97.74
W115129080WO*	**115.00**		115.00	129.00	8.00	11.00	129.00		8.00		100.73
W115131090WO	**115.00**		115.00	131.00	9.00	12.00	131.00		9.00		63.75
W118134090WO*	**118.00**		118.00	134.00	9.00	12.00	134.00		9.00		74.35
W120130070WO	**120.00**		120.00	130.00	7.00	10.00	130.00		7.00		66.17
W120136090WO	**120.00**		120.00	136.00	9.00	12.00	136.00		9.00		100.73
W120160170WO*	**120.70**		120.70	160.00	17.00	20.00	160.00		17.00		78.06
W125140090WO	**125.00**		125.00	140.00	9.00	12.00	140.00		9.00		74.35
W125141090WO	**125.00**		125.00	141.00	9.00	12.00	141.00		9.00		96.35
W130146060WO*	**130.00**		130.00	146.00	6.00	9.00	146.00		6.00		96.35
W130146090WO	**130.00**		130.00	146.00	9.00	12.00	146.00		9.00		78.06
W132148090WO*	**132.00**		132.00	148.00	9.00	12.00	148.00		9.00		105.21
W135155100WO*	**135.00**		135.00	155.00	10.00	14.00	155.00		10.00		105.21
W140155090WO	**140.00**		140.00	155.00	9.00	12.00	155.00		9.00		100.24
W140160100WO	**140.00**		140.00	160.00	10.00	14.00	160.00		10.00		96.35
W145165100WO	**145.00**		145.00	165.00	10.00	14.00	165.00		10.00		121.81
W150165090WO	**150.00**		150.00	165.00	9.00	12.00	165.00		9.00		121.81
W150170100WO*	**150.00**		150.00	170.00	10.00	14.00	170.00		10.00		105.21
W155175060WO*	**155.00**		155.00	175.00	6.00	10.00	175.00		6.00		246.02
W155175100WO*	**155.00**		155.00	175.00	10.00	14.00	175.00		10.00		246.02
W157177100WO*	**157.00**		157.00	177.00	10.00	14.00	177.00		10.00		282.85
W160175090WO	**160.00**		160.00	175.00	9.00	12.00	175.00		9.00		246.02
W160180100WO	**160.00**		160.00	180.00	10.00	14.00	180.00		10.00		121.81
W165185100WO*	**165.00**		165.00	185.00	10.00	14.00	185.00	+ 0.07 - 0.00	10.00		266.41
W170190100WO	**170.00**		170.00	190.00	10.00	14.00	190.00		10.00		169.94
W175195100WO*	**175.00**		175.00	195.00	10.00	14.00	195.00		10.00		325.90
W180205120WO	**180.00**		180.00	205.00	12.00	17.00	205.00		12.00		174.96
W180205120WO/ORG*	**180.00**		180.00	205.00	12.00	17.00	205.00		12.00		636.99
W185210120WO*	**185.00**		185.00	210.00	12.00	17.00	210.00		12.00		421.45
W190215120WO	**190.00**		190.00	215.00	12.00	17.00	215.00		12.00		538.47

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WO series - AU/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W195220120WO*	**195.00**	+ 0.00 - 0.13	195.00	220.00	12.00	17.00	220.00	+ 0.07 - 0.00	12.00	+ 0.50 - 0.00	484.20
W200225120WO*	**200.00**		200.00	225.00	12.00	17.00	225.00		12.00		204.76
W200225120WO/ORG*	**200.00**		200.00	225.00	12.00	17.00	225.00		12.00		653.14
W210235120WO*	**210.00**		210.00	235.00	12.00	17.00	235.00		12.00		551.54
W212237120WO*	**212.00**		212.00	237.00	12.00	17.00	237.00		12.00		579.75
W215240120WO*	**215.00**		215.00	240.00	12.00	17.00	240.00		12.00		620.51
W220245120WO *	**220.00**		220.00	245.00	12.00	17.00	245.00		12.00		O/R
W220245120WO/ORG*	**220.00**		220.00	245.00	12.00	17.00	245.00		12.00		582.62
W224249120WO*	**224.00**		224.00	249.00	12.00	17.00	249.00		12.00		659.66
W225250120WO*	**225.00**		225.00	250.00	12.00	17.00	250.00		12.00		659.66
W230255120WO*	**230.00**		230.00	255.00	12.00	17.00	255.00	+ 0.08 - 0.00	12.00		708.22
W236261120WO*	**236.00**		236.00	261.00	12.00	17.00	261.00		12.00		766.25
W240265120WO*	**240.00**		240.00	265.00	12.00	17.00	265.00		12.00		766.25
W245270120WO*	**245.00**		245.00	270.00	12.00	17.00	270.00		12.00		825.78
W250275120WO*	**250.00**		250.00	275.00	12.00	17.00	275.00		12.00		825.78
W260280100WO*	**260.00**		260.00	280.00	10.00	14.00	280.00		10.00		O/R
W260285120WO	**260.00**		260.00	285.00	12.00	17.00	285.00		12.00		989.72
W265290120WO*	**265.00**		265.00	290.00	12.00	17.00	290.00		12.00		O/R
W280310160WO	**280.00**		280.00	310.00	16.00	22.00	310.00		16.00		1021.75
W290320160WO*	**290.00**		290.00	320.00	16.00	22.00	320.00	+ 0.09 - 0.00	16.00		1337.58
W300330160WO*	**300.00**		300.00	330.00	16.00	22.00	330.00		16.00		1369.41
W310340160WO*	**310.00**		310.00	340.00	16.00	22.00	340.00		16.00		O/R
W320350160WO*	**320.00**		320.00	350.00	16.00	22.00	350.00		16.00		O/R
W330360160WO*	**330.00**		330.00	360.00	16.00	22.00	360.00		16.00		O/R
W340370160WO*	**340.00**		340.00	370.00	16.00	22.00	370.00		16.00		O/R
W345375160WO*	**345.00**		345.00	375.00	16.00	22.00	375.00		16.00		O/R
W350380160WO*	**350.00**		350.00	380.00	16.00	22.00	380.00		16.00		O/R
W355385160WO*	**355.00**		355.00	385.00	16.00	22.00	385.00		16.00		O/R
W360390160WO*	**360.00**		360.00	390.00	16.00	22.00	390.00		16.00		O/R
W365395160WO*	**365.00**		365.00	395.00	16.00	22.00	395.00		16.00		O/R
W370400160WO*	**370.00**		370.00	400.00	16.00	22.00	400.00		16.00		O/R
W375405160WO*	**375.00**		375.00	405.00	16.00	22.00	405.00	+ 0.10 - 0.00	16.00		O/R
W380410160WO*	**380.00**		380.00	410.00	16.00	22.00	410.00		16.00		O/R
W390420100WO*	**390.00**		390.00	420.00	10.00	14.00	420.00		10.00		O/R
W390420160WO*	**390.00**		390.00	420.00	16.00	22.00	420.00		16.00		O/R
W400430160WO*	**400.00**		400.00	430.00	16.00	22.00	430.00		16.00		O/R
W425460180WO*	**425.00**		425.00	460.00	18.00	24.00	460.00		18.00		O/R
W438463120WO*	**438.00**		438.00	463.00	12.00	17.00	463.00		12.00		O/R
W445480160WO*	**445.00**		445.00	480.00	16.00	22.00	480.00		16.00		O/R
W460490200WO*	**460.00**		460.00	490.00	20.00	26.00	490.00		20.00		O/R
W468503180WO*	**468.00**		468.00	503.00	18.00	24.00	503.00		18.00		O/R
W470505180WO*	**470.00**		470.00	505.00	18.00	24.00	505.00		18.00		O/R
W475500120WO*	**475.00**		475.00	500.00	12.00	17.00	500.00		12.00		O/R
W480510200WO*	**480.00**		480.00	510.00	20.00	26.00	510.00		20.00		O/R
W540580200WO*	**540.00**		540.00	580.00	20.00	26.00	580.00		20.00		O/R
W600640250WO*	**600.00**		600.00	640.00	25.00	30.00	640.00		25.00		O/R

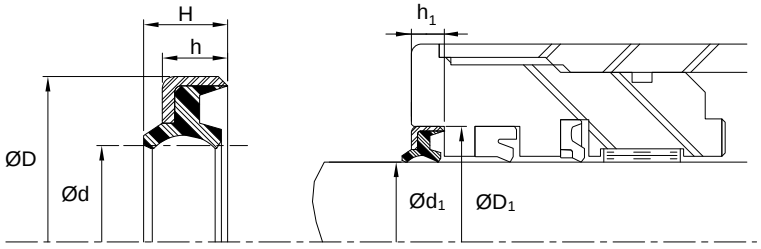
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WO series - AU/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W650690180WO*	**650.00**	+ 0.00 - 0.04	650.00	690.00	18.00	24.00	690.00	+ 0.04 - 0.00	18.00	+ 0.50 - 0.00	O/R
W650700250WO*	**650.00**		650.00	700.00	25.00	35.00	700.00		25.00		O/R
W720750180WO*	**720.00**		720.00	750.00	18.00	24.00	750.00		18.00		O/R

WR - Rod wipers - Metric





Standard Material	Temperature Range	Surface Speed
Polyurethane/Steel	-22°F to +212°F (-30°C to +100°C)	<3.3 ft/s (1 m/s)

Similar in use to the **WO-style**, the **WR-style** has the added benefit of being a double-lip design to aid both in secondary sealing and wiping applications.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W011021050WR*	**11.20**	+ 0.00 - 0.04	11.20	21.00	5.00	7.00	21.00	+ 0.03 - 0.00	5.30	+ 0.02 - 0.00	19.49
W014024050WR	**14.00**		14.00	24.00	5.00	7.00	24.00		5.30		19.63
W016026050WR*	**16.00**		16.00	26.00	5.00	7.00	26.00		5.30		19.78
W018030060WR	**18.00**		18.00	30.00	6.00	9.00	30.00		6.30		20.06
W020032060WR	**20.00**		20.00	32.00	6.00	9.00	32.00	+ 0.04 - 0.00	6.30		20.41
W022032060WR	**22.00**		22.00	32.00	6.00	9.00	32.00		6.30		20.53
W022034060WR	**22.00**		22.00	34.00	6.00	9.00	34.00		6.30		20.97
W025037060WR	**25.00**		25.00	37.00	6.00	9.00	37.00		6.30		10.61
W025037070WR*	**25.00**		25.00	37.00	7.00	10.00	37.00		7.30		17.06
W030042060WR	**30.00**		30.00	42.00	6.00	9.00	42.00		6.30		23.79
W030045070WR*	**30.00**		30.00	45.00	7.00	10.00	45.00		7.30		17.92
W032042070WR*	**32.00**		32.00	42.00	7.00	10.00	42.00		7.30		20.11
W032044070WR	**32.00**		32.00	44.00	7.00	9.00	44.00		7.30		22.09

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WR series - AU/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W032052080WR	**32.00**	+ 0.00 - 0.04	32.00	52.00	8.00	11.00	52.00	+0.05/-0.00	8.40	+ 0.02 - 0.00	22.64
W034046070WR*	**34.00**		34.00	46.00	7.00	10.00	46.00	+ 0.04 - 0.00	7.30		23.01
W035047070WR	**35.00**		35.00	47.00	7.00	10.00	47.00		7.30		25.07
W036050080WR	**36.00**		36.00	50.00	8.00	13.00	50.00		8.30		31.60
W038050070WR*	**38.00**		38.00	50.00	7.00	10.00	50.00		7.30		27.39
W040052070WR	**40.00**	+ 0.00 - 0.05	40.00	52.00	7.00	10.00	52.00	+ 0.05 - 0.00	7.30		30.64
W045057070WR	**45.00**		45.00	57.00	7.00	10.00	57.00		7.30		33.25
W045059080WR	**45.00**		45.00	59.00	8.00	11.00	59.00		8.40		32.94
W050062070WR	**50.00**		50.00	62.00	7.00	10.00	62.00		7.30		33.71
W050064080WR	**50.00**		50.00	64.00	8.00	11.00	64.00		8.40		33.97
W050065060WR	**50.00**		50.00	65.00	6.00	9.00	65.00		6.30		35.23
W050072080WR	**50.00**		50.00	72.00	8.00	11.00	72.00		8.40		36.46
W055069080WR	**55.00**		55.00	69.00	8.00	11.00	69.00		8.40		40.13
W055070060WR*	**55.00**		55.00	70.00	6.00	9.00	70.00		6.30		40.04
W056070080WR	**56.00**		56.00	70.00	8.00	11.00	70.00		8.40		32.48
W060074080WR	**60.00**		60.00	74.00	8.00	11.00	74.00		8.40		43.47
W060080100WR*	**60.00**		60.00	80.00	10.00	14.00	80.00		10.40		41.19
W060082110WR	**60.00**		60.00	82.00	11.00	14.00	82.00		11.40		42.11
W065079080WR	**65.00**	+ 0.00 - 0.06	65.00	79.00	8.00	11.00	79.00		8.40		46.10
W070082070WR	**70.00**		70.00	82.00	7.00	10.00	82.00		7.30		47.79
W070084080WR	**70.00**		70.00	84.00	8.00	11.00	84.00		8.40		49.47
W075089080WR	**75.00**	+ 0.00 - 0.09	75.00	89.00	8.00	11.00	89.00		8.40		53.20
W080094080WR	**80.00**		80.00	94.00	8.00	11.00	94.00		8.40		62.72
W085099080WR	**85.00**		85.00	99.00	8.00	11.00	99.00		8.40		71.18
W090104080WR	**90.00**		90.00	104.00	8.00	11.00	104.00		8.40		76.94
W090110100WR*	**90.00**		90.00	110.00	10.00	14.00	110.00		10.40		67.23
W095107090WR	**95.00**		95.00	107.00	9.00	12.00	107.00		9.40		58.85
W095109080WR	**95.00**		95.00	109.00	8.00	11.00	109.00		8.40		40.01
W100114080WR	**100.00**		100.00	114.00	8.00	11.00	114.00		8.40		75.85
W100122100WR*	**100.00**		100.00	122.00	10.00	14.00	122.00	+ 0.06 - 0.00	10.40		72.26
W105121090WR	**105.00**	+ 0.00 - 0.13	105.00	121.00	9.00	12.00	121.00		9.40		78.07
W110126090WR	**110.00**		110.00	126.00	9.00	12.00	126.00		9.40		82.77
W110130115WR	**110.00**		110.00	130.00	11.50	16.50	130.00		11.90		232.00
W115127090WR	**115.00**		115.00	127.00	9.00	12.00	127.00		9.40		79.35
W115131090WR	**115.00**		115.00	131.00	9.00	12.00	131.00		9.40		81.03
W120136090WR	**120.00**		120.00	136.00	9.00	12.00	136.00		9.40		90.58
W130146090WR	**130.00**		130.00	146.00	9.00	12.00	146.00		9.40		99.12
W135150080WR*	**135.00**		135.00	150.00	8.00	11.00	150.00		8.40		91.79
W135151090WR*	**135.00**		135.00	151.00	9.00	12.00	151.00		9.40		92.11
W135155100WR*	**135.00**		135.00	155.00	10.00	14.00	155.00		10.40		76.00
W140160100WR	**140.00**		140.00	160.00	10.00	14.00	160.00		10.40		99.91
W140165140WR*	**140.00**		140.00	165.00	14.00	20.00	165.00		14.40		267.37
W145165100WR*	**145.00**		145.00	165.00	10.00	14.00	165.00		10.40		173.54
W150170100WR	**150.00**		150.00	170.00	10.00	14.00	170.00		10.40		106.48
W155175100WR*	**155.00**		155.00	175.00	10.00	14.00	175.00		10.40		114.38
W160180100WR	**160.00**		160.00	180.00	10.00	14.00	180.00		10.40		131.33

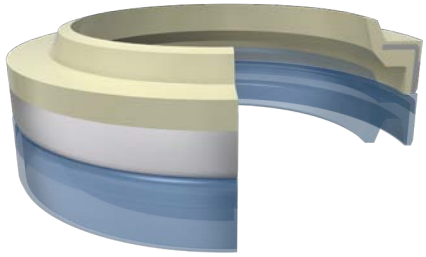
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W165185100WR	**165.00**	+ 0.00 - 0.13	165.00	185.00	10.00	14.00	185.00	+ 0.04 - 0.00	10.40	+ 0.02 - 0.00	84.74
W170190100WR	**170.00**		170.00	190.00	10.00	14.00	190.00		10.40		146.45
W175195100WR*	**175.00**		175.00	195.00	10.00	14.00	195.00		10.40		O/R
W180200100WR	**180.00**		180.00	200.00	10.00	14.00	200.00		10.40		177.29
W180205120WR	**180.00**		180.00	205.00	12.00	17.00	205.00		12.40		128.29
W190205090WR*	**190.00**		190.00	205.00	9.00	12.00	205.00		9.40		155.47
W190215120WR	**190.00**		190.00	215.00	12.00	17.00	215.00		12.40		303.98
W190215120WR/N*	**190.00**		190.00	215.00	12.00	17.00	215.00		12.40		292.76
W200216080WR	**200.00**		200.00	216.00	8.00	11.00	216.00		8.40		173.49
W200225120WR*	**200.00**		200.00	225.00	12.00	17.00	225.00		12.40		209.06
W210230120WR*	**210.00**		210.00	230.00	12.00	17.00	230.00		12.40		159.50
W210235120WR	**210.00**		210.00	235.00	12.00	17.00	235.00		12.40		162.16
W215235100WR*	**215.00**		215.00	235.00	10.00	14.00	235.00		10.40		O/R
W220245120WR*	**220.00**		220.00	245.00	12.00	17.00	245.00		12.40		164.27
W225250120WR*	**225.00**		225.00	250.00	12.00	17.00	250.00		12.40		O/R
W230255120WR	**230.00**		230.00	255.00	12.00	17.00	255.00		12.40		188.92
W240260100WR	**240.00**		240.00	260.00	10.00	14.00	260.00		10.40		257.18
W240265120WR	**240.00**		240.00	265.00	12.00	17.00	265.00		12.40		228.69
W250275120WR	**250.00**		250.00	275.00	12.00	17.00	275.00		12.40		233.63
W260285120WR	**260.00**		260.00	285.00	12.00	17.00	285.00		12.40		482.74
W260285120WR/N*	**260.00**		260.00	285.00	12.00	17.00	285.00		12.40		680.36
W265290120WR*	**265.00**		265.00	290.00	12.00	17.00	290.00		12.40		O/R
W270295120WR*	**270.00**		270.00	295.00	12.00	22.00	295.00		12.40		297.25
W280310160WR*	**280.00**		280.00	310.00	16.00	22.00	310.00		16.40		O/R
W300330160WR	**300.00**		300.00	330.00	16.00	22.00	330.00		16.40		513.74
W340370160WR	**340.00**		340.00	370.00	16.00	25.00	370.00		16.40		2038.93

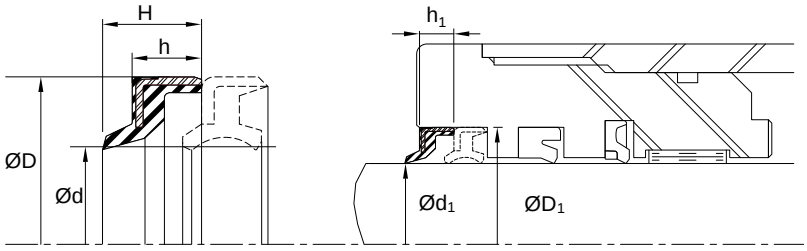
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



W12 - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane/Steel	-40°F to +212°F (-40°C to +100°C)	<3.3 ft/s (1 m/s)



Manufactured from highly abrasion resistant polyurethane and bonded to a metal case, this press-in wiper is used to wipe and scrape tough materials especially on mobile construction equipment.

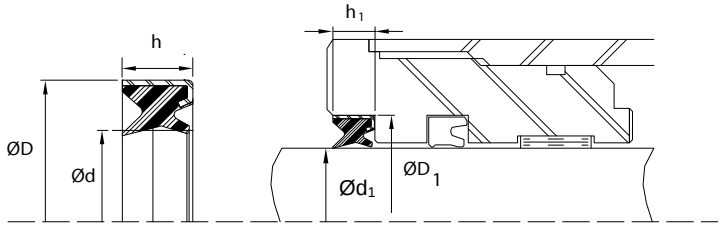
Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions				$
	d1	Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W070084080W12	**70.00**	+ 0.00 - 0.06	70.00	84.00	8.00	11.00	84.00	+ 0.05 - 0.00	8.40	+ 0.02 - 0.00	51.08
W110130115W12	**110.00**		110.00	130.00	11.50	16.50	130.00		11.90		232.00
W170195140W12*	**170.00**	+ 0.00 - 0.13	170.00	195.00	14.00	20.00	195.00	+ 0.07 - 0.00	14.40		572.00
W190215140W12*	**190.00**		190.00	215.00	14.00	20.00	215.00		14.40		632.50
W200225140W12*	**200.00**		200.00	225.00	14.00	20.00	225.00		14.40		660.00
W220245140W12*	**220.00**		220.00	245.00	14.00	20.00	245.00		14.40		847.00
W230255140W12*	**230.00**		230.00	255.00	14.00	20.00	255.00	+ 0.08 - 0.00	14.40		1127.50
W240265120W12*	**240.00**		240.00	265.00	12.00	17.00	265.00		12.40		688.00
W240265140W12*	**240.00**		240.00	265.00	14.00	19.50	265.00		14.40		1038.00

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Surface Speed
Polyurethane/Steel	-65°F to +212°F (-54°C to +100°C)	<3 ft/s (0.9 m/s)



WDL-style rod wipers are a high performance wiper used in the toughest applications. The wiping edge removes the dirt and grime from the rod, thereby keeping the system running clean and at its peak performance.

A secondary sealing edge prevents residual oil film from escaping, helping the system achieve zero leakage performance.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

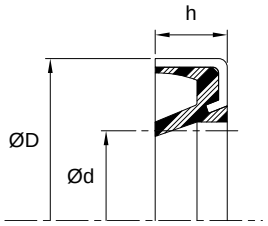
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
	d1	Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
W045059085WDL*	**45.00**	+0.00 -0.05	45.00	59.00	8.50	45.00	+0.00 -0.05	59.00	+0.05 -0.00	8.50	+0.02 -0.00	15.60
W050067110WDL	**50.00**		50.00	67.50	11.00	50.00		67.50		11.00		16.24
W050068110WDL	**50.00**		50.00	68.00	11.00	50.00		68.25		11.00		30.79
W050069110WDL	**50.00**		50.00	69.00	11.00	50.00		69.00		11.00		17.26
W055072110WDL*	**55.00**		55.00	72.50	11.00	55.00		72.50		11.00		20.04
W055073120WDL	**55.00**		55.00	73.00	12.00	55.00		73.00		12.00		22.60
W055074110WDL	**55.00**		55.00	74.00	11.00	55.00		74.00		11.00		18.74
W060079110WDL	**60.00**		60.00	79.00	11.00	60.00		79.00		11.00		31.23
W065084110WDL	**65.00**	+0.00 -0.06	65.00	84.02	11.00	65.00	+0.00 -0.06	84.02		11.00		36.14
W070090140WDL	**70.00**		70.00	90.00	14.00	70.00		90.30		14.00		36.42
W075095140WDL	**75.00**		75.00	95.00	14.00	75.00		95.00		14.00		29.15
W080100140WDL*	**80.00**	+0.00 -0.09	80.00	100.40	14.00	80.00	+0.00 -0.09	100.40		14.00		36.88
W085105140WDL	**85.00**		85.00	105.50	14.00	85.00		105.50		14.00		66.89
W090110140WDL	**90.00**		90.00	110.35	14.00	90.00		110.35		14.00		43.50
W095115140WDL*	**95.00**		95.00	115.00	14.00	95.00		115.00		14.00		54.21

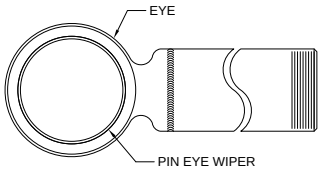
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WS - Pin wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane/Steel	-22°F to +212°F (-30°C to +100°C)	<3.3 ft/s (1 m/s)





Used mainly to protect the pins that anchor hydraulic cylinders to articulated equipment, the **WS-style** is a single shell, polyurethane lip wiper ring.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Pin Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions D1	Tol.	h1	Tol.	$
W016024028WS*	**16.00**	+ 0.00 - 0.04	16.00	24.00	2.80	24.00	+ 0.03 - 0.00	3.10	+ 0.02 - 0.00	10.58
W020028026WS*	**20.00**		20.00	28.00	2.60	28.00		2.90		11.94
W025035040WS	**25.00**		25.00	35.00	4.00	35.00	+ 0.04 - 0.00	4.30		12.41
W030045040WS*	**30.00**		30.00	45.00	4.00	45.00		4.30		13.47
W035045040WS	**35.00**		35.00	45.00	4.00	45.00		4.30		13.47
W040050031WS	**40.00**	+ 0.00 - 0.05	40.00	50.00	3.18	50.00		3.48		12.65
W040050040WS	**40.00**		40.00	50.00	4.00	50.00		4.30		12.39
W040050050WS	**40.00**		40.00	50.00	5.00	50.00		5.30		14.74
W040050070WS	**40.00**		40.00	50.00	7.00	50.00		7.30		14.74
W040052070WS	**40.00**		40.00	52.00	7.00	52.00	+ 0.05 - 0.00	7.30		15.35
W040055090WS	**40.00**		40.00	55.00	9.00	55.00		9.40		34.18
W045055031WS	**45.00**		45.00	55.00	3.18	55.00		3.48		11.00
W045055040WS	**45.00**		45.00	55.00	4.00	55.00		4.30		15.93
W045055045WS	**45.00**		45.00	55.00	4.50	55.00		4.80		15.93
W045055060WS	**45.00**		45.00	55.00	6.00	55.00		6.30		15.93
W045057070WS	**45.00**		45.00	57.00	7.00	57.00		7.30		13.86
W045060050WS	**45.00**		45.00	60.00	5.00	60.00		5.30		16.39
W045060075WS	**45.00**		45.00	60.00	7.50	60.00		7.80		40.74
W050060045WS	**50.00**		50.00	60.00	4.50	60.00		4.80		16.63
W050060050WS	**50.00**		50.00	60.00	5.00	60.00		5.30		16.63
W050060060WS	**50.00**		50.00	60.00	6.00	60.00		6.30		16.63
W050060070WS	**50.00**		50.00	60.00	7.00	60.00		7.30		16.63
W050062070WS	**50.00**		50.00	62.00	7.00	62.00		7.30		17.45

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Pin Diameter		Nominal Seal Dimensions			Housing Dimensions				$
		Tol.	d	D	h	D1	Tol.	h1	Tol.	
W050064080WS	**50.00**	+ 0.00 - 0.05	50.00	64.00	8.00	64.00	+ 0.05 - 0.00	8.40	+ 0.02 - 0.00	16.75
W050065040WS*	**50.00**		50.00	65.00	4.00	65.00		4.30		16.75
W050065050WS	**50.00**		50.00	65.00	5.00	65.00		5.30		17.21
W050065075WS	**50.00**		50.00	65.00	7.50	65.00		7.80		18.01
W050065090WS	**50.00**		50.00	65.00	9.00	65.00		9.40		20.26
W055065031WS	**55.00**		55.00	65.00	3.18	65.00		3.48		13.22
W055065045WS	**55.00**		55.00	65.00	4.50	65.00		4.80		19.27
W055068060WS	**55.00**		55.00	68.00	6.00	68.00		6.30		19.32
W055069080WS	**55.00**		55.00	69.00	8.00	69.00		8.40		18.79
W055070050WS	**55.00**		55.00	70.00	5.00	70.00		5.30		19.56
W055070060WS	**55.00**		55.00	70.00	6.00	70.00		6.30		19.56
W055070075WS*	**55.00**		55.00	70.00	7.50	70.00		7.80		18.51
W056068070WS	**56.00**		56.00	68.00	7.00	68.00		7.30		18.30
W056068070WS/301SST	**56.00**		56.00	68.00	7.00	68.00		7.30		50.31
W056070075WS	**56.00**		56.00	70.00	7.50	70.00		7.80		20.84
W056071090WS	**56.00**		56.00	71.00	9.00	71.00		9.40		21.08
W060070070WS	**60.00**		60.00	70.00	7.00	70.00		7.30		17.45
W060073080WS	**60.00**		60.00	73.00	8.00	73.00		8.40		21.24
W060074080WS	**60.00**		60.00	74.00	8.00	74.00		8.40		19.62
W060075040WS	**60.00**		60.00	75.00	4.00	75.00		4.30		20.13
W060075050WS	**60.00**		60.00	75.00	5.00	75.00		5.30		20.13
W060075060WS	**60.00**		60.00	75.00	6.00	75.00		6.30		20.13
W060075075WS	**60.00**		60.00	75.00	7.50	75.00		7.80		18.30
W060075080WS	**60.00**	↓	60.00	75.00	8.00	75.00		8.40		18.70
W063078090WS	**63.00**	+ 0.00 - 0.06	63.00	78.00	9.00	78.00		9.40		27.28
W063083100WS	**63.00**		63.00	83.00	10.00	83.00		10.40		28.54
W065075070WS	**65.00**		65.00	75.00	7.00	75.00		7.30		18.03
W065079080WS	**65.00**		65.00	79.00	8.00	79.00		8.40		18.80
W065080050WS	**65.00**		65.00	80.00	5.00	80.00		5.30		36.54
W065080080WS	**65.00**		65.00	80.00	8.00	80.00		8.40		22.39
W070080040WS	**70.00**		70.00	80.00	4.00	80.00		4.30		15.61
W070080070WS	**70.00**		70.00	80.00	7.00	80.00		7.30		18.51
W070084060WS	**70.00**		70.00	84.00	6.00	84.00		6.30		20.21
W070084080WS	**70.00**		70.00	84.00	8.00	84.00		8.40		19.43
W070085050WS	**70.00**		70.00	85.00	5.00	85.00		5.30		23.55
W070085070WS	**70.00**		70.00	85.00	7.00	85.00		7.30		35.91
W070085075WS	**70.00**		70.00	85.00	7.50	85.00		7.80		35.91
W070085080WS	**70.00**		70.00	85.00	8.00	85.00		8.40		42.03
W070090100WS	**70.00**		70.00	90.00	10.00	90.00		10.40		105.97
W071086050WS	**71.00**		71.00	86.00	5.00	86.00		5.30		23.79
W071086060WS	**71.00**		71.00	86.00	6.00	86.00		6.30		23.79
W075089080WS	**75.00**		75.00	89.00	8.00	89.00		8.40		20.70
W075090050WS	**75.00**		75.00	90.00	5.00	90.00		5.30		24.48
W075090060WS	**75.00**		75.00	90.00	6.00	90.00		6.30		24.48
W075090080WS	**75.00**	↓	75.00	90.00	8.00	90.00		8.40		25.30
W080090045WS	**80.00**	+0.05/-0.00	80.00	90.00	4.50	90.00	↓	4.80	↓	26.11

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WS series - AU/STEEL

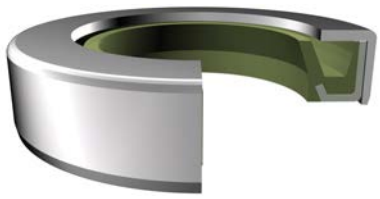
Ref.Number	Pin Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions D1	Tol.	h1	Tol.	$
W080090070WS	**80.00**	+ 0.00 - 0.09	80.00	90.00	7.00	90.00	+ 0.05 - 0.00	7.30	+ 0.02 - 0.00	20.13
W080094080WS	**80.00**		80.00	94.00	8.00	95.00		8.40		22.01
W080095050WS	**80.00**		80.00	95.00	5.00	95.00		5.30		26.94
W080095060WS	**80.00**		80.00	95.00	6.00	95.00		6.30		26.94
W080095080WS	**80.00**		80.00	95.00	8.00	95.00		8.40		26.94
W080100100WS	**80.00**		80.00	100.00	10.00	100.00		10.40		93.23
W085095050WS	**85.00**		85.00	95.00	5.00	95.00		5.30		27.63
W085095070WS*	**85.00**		85.00	95.00	7.00	95.00		7.30		27.63
W085099080WS	**85.00**		85.00	99.00	8.00	99.00		8.40		23.23
W085100080WS	**85.00**		85.00	100.00	8.00	100.00		8.40		27.41
W090100070WS	**90.00**		90.00	100.00	7.00	100.00		7.30		20.61
W090104080WS	**90.00**		90.00	104.00	8.00	104.00		8.40		24.48
W090105060WS	**90.00**		90.00	105.00	6.00	105.00		6.30		29.75
W090105080WS	**90.00**		90.00	105.00	8.00	105.00		8.40		29.75
W090106080WS	**90.00**		90.00	106.00	8.00	106.00		8.40		31.16
W090110100WS	**90.00**		90.00	110.00	10.00	110.00		10.40		31.85
W095109080WS	**95.00**		95.00	109.00	8.00	109.00		8.40		32.76
W095110060WS	**95.00**		95.00	110.00	6.00	110.00		6.30		30.37
W095110080WS	**95.00**		95.00	110.00	8.00	110.00		8.40		25.21
W100110045WS	**100.00**		100.00	110.00	4.50	110.00		4.80		25.21
W100110070WS	**100.00**		100.00	110.00	7.00	110.00		7.30		51.31
W100114080WS	**100.00**		100.00	114.00	8.00	114.00		8.40		27.01
W100115060WS	**100.00**		100.00	115.00	6.00	115.00		6.30		35.83
W100115070WS	**100.00**		100.00	115.00	7.00	115.00		7.30		32.38
W100116080WS	**100.00**		100.00	116.00	8.00	116.00		8.40		37.13
W100120040WS*	**100.00**		100.00	120.00	4.00	120.00		4.30		37.13
W100120100WS	**100.00**		100.00	120.00	10.00	120.00		10.40		37.36
W100125040WS*	**100.00**		100.00	125.00	4.00	125.00	+0.06/-0.00	4.30		37.36
W105120070WS	**105.00**	+ 0.00 - 0.13	105.00	120.00	7.00	120.00	+ 0.05 - 0.00	7.30		38.77
W105120080WS	**105.00**		105.00	120.00	8.00	120.00		8.40		38.72
W105121090WS*	**105.00**		105.00	121.00	9.00	121.00	+ 0.06 - 0.00	9.40		49.00
W110125040WS	**110.00**		110.00	125.00	4.00	125.00		4.30		38.77
W110125080WS	**110.00**		110.00	125.00	8.00	125.00		8.40		39.80
W110125090WS	**110.00**		110.00	125.00	9.00	125.00		9.40		39.80
W110126090WS	**110.00**		110.00	126.00	9.00	126.00		9.40		31.95
W110130080WS	**110.00**		110.00	130.00	8.00	130.00		8.40		81.27
W110130100WS	**110.00**		110.00	130.00	10.00	130.00		10.40		47.25
W115131090WS*	**115.00**		115.00	131.00	9.00	131.00		9.40		49.98
W120130070WS	**120.00**		120.00	130.00	7.00	130.00		7.30		43.24
W120135070WS	**120.00**		120.00	135.00	7.00	135.00		7.30		43.75
W120135080WS	**120.00**		120.00	135.00	8.00	135.00		8.40		43.89
W120136090WS	**120.00**		120.00	136.00	9.00	136.00		9.40		52.86
W120150120WS	**120.00**		120.00	150.00	12.00	150.00		12.40		61.35
W125140080WS	**125.00**		125.00	140.00	8.00	140.00		8.40		109.88
W125141090WS*	**125.00**		125.00	141.00	9.00	141.00		9.40		58.21
W130140070WS*	**130.00**		130.00	140.00	7.00	140.00		7.30		50.69

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

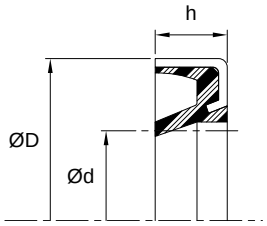
Ref.Number	Pin Diameter		Nominal Seal Dimensions			Housing Dimensions				$
		Tol.	d	D	h	D1	Tol.	h1	Tol.	
W130145070WS	**130.00**	+ 0.00 - 0.13	130.00	145.00	7.00	145.00	+ 0.06 - 0.00	7.30	+ 0.02 - 0.00	44.13
W130146090WS	**130.00**		130.00	146.00	9.00	146.00		9.40		46.72
W130150040WS*	**130.00**		130.00	150.00	4.00	150.00		4.30		48.48
W130150090WS	**130.00**		130.00	150.00	9.00	150.00		9.40		61.95
W130160120WS*	**130.00**		130.00	160.00	12.00	160.00		12.40		87.15
W140155070WS*	**140.00**		140.00	155.00	7.00	155.00		7.30		83.29
W140155080WS	**140.00**		140.00	155.00	8.00	155.00		8.40		76.49
W140160100WS	**140.00**		140.00	160.00	10.00	160.00		10.40		50.92
W140164080WS	**140.00**		140.00	164.00	8.00	164.00		8.40		72.49
W140168090WS*	**140.00**		140.00	168.00	9.00	168.00		9.40		86.37
W150165070WS	**150.00**		150.00	165.00	7.00	165.00		7.30		76.28
W150170080WS	**150.00**		150.00	170.00	8.00	170.00		8.00		76.91
W150170100WS	**150.00**		150.00	170.00	10.00	170.00		10.40		72.20
W150180080WS	**150.00**		150.00	180.00	8.00	180.00		8.40		131.12
W160175070WS	**160.00**		160.00	175.00	7.00	175.00		7.30		73.77
W160184080WS	**160.00**		160.00	184.00	8.00	184.00		8.40		107.28
W160190100WS	**160.00**		160.00	190.00	10.00	190.00		10.40		165.39
W170190090WS	**170.00**		170.00	190.00	9.00	190.00		9.40		264.20
W180200080WS	**180.00**		180.00	200.00	8.00	200.00		8.40		87.32
W180200100WS	**180.00**		180.00	200.00	10.00	200.00		10.40		148.11
W180205120WS*	**180.00**		180.00	205.00	12.00	205.00	+ 0.07 - 0.00	12.40		159.83
W180210130WS	**180.00**		180.00	210.00	13.00	210.00		13.40		368.80
W190202080WS*	**190.00**		190.00	202.00	8.00	202.00		8.40		170.67
W190210100WS*	**190.00**		190.00	210.00	10.00	210.00		10.40		174.06
W200220100WS	**200.00**		200.00	220.00	10.00	220.00		10.40		126.95
W200225120WS*	**200.00**		200.00	225.00	12.00	225.00		12.40		167.21
W210235120WS	**210.00**		210.00	235.00	12.00	235.00		12.40		204.55
W220255140WS*	**220.00**		220.00	255.00	14.00	255.00		14.40		220.51
W230260100WS*	**230.00**		230.00	260.00	10.00	260.00		10.40		138.57
W260290100WS	**260.00**		260.00	290.00	10.00	290.00		10.40		166.28
W280310160WS	**280.00**		280.00	310.00	16.00	310.00		16.40		1026.09

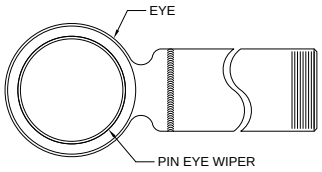
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WT - Pin wipers - Metric



Standard Material	Temperature Range
Polyurethane/Steel	-22°F to +212°F (-30°C to +100°C)





Similar in use to the **WS-style**, the **WT-style** uses a double-shell with a polyurethane sealing lip.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Pin Diameter		Nominal Seal Dimensions			Housing Dimensions				$
		Tol.	d	D	h	D1	Tol.	h1	Tol.	
W035045040WT	**35.00**	+ 0.00 - 0.04	35.00	45.00	4.00	45.00	+ 0.04 - 0.00	4.30	+ 0.02 - 0.00	17.34
W035045060WT*	**35.00**	↓	35.00	45.00	6.00	45.00	↓	6.30	↓	17.34
W038048040WT*	**38.00**	↓	38.00	48.00	4.00	48.00	↓	4.30	↓	17.34
W040050040WT	**40.00**	+ 0.00 - 0.05	40.00	50.00	4.00	50.00	↓	4.30	↓	17.34
W040050060WT	**40.00**	↓	40.00	50.00	6.00	50.00	+ 0.05 - 0.00	6.30	↓	17.34
W045055040WT	**45.00**	↓	45.00	55.00	4.00	55.00	↓	4.30	↓	18.02
W045055060WT*	**45.00**	↓	45.00	55.00	6.00	55.00	↓	6.30	↓	19.12
W050060040WT	**50.00**	↓	50.00	60.00	4.00	60.00	↓	4.30	↓	20.24
W050060050WT*	**50.00**	↓	50.00	60.00	5.00	60.00	↓	5.30	↓	20.72
W050060060WT	**50.00**	↓	50.00	60.00	6.00	60.00	↓	6.30	↓	21.60
W050065060WT*	**50.00**	↓	50.00	65.00	6.00	65.00	↓	6.30	↓	23.56
W055065040WT	**50.00**	↓	55.00	65.00	4.00	65.00	↓	4.30	↓	26.48
W055065060WT*	**55.00**	↓	55.00	65.00	6.00	65.00	↓	6.30	↓	23.56
W055068040WT*	**55.00**	↓	55.00	68.00	4.00	68.00	↓	4.30	↓	22.89
W055070040WT*	**55.00**	↓	55.00	70.00	4.00	70.00	↓	4.30	↓	17.41
W055070060WT*	**55.00**	↓	55.00	70.00	6.00	70.00	↓	6.30	↓	26.00
W055075060WT*	**55.00**	↓	55.00	75.00	6.00	75.00	↓	6.30	↓	26.00
W060070060WT	**60.00**	↓	60.00	70.00	6.00	70.00	↓	6.30	↓	26.00
W060075040WT	**60.00**	↓	60.00	75.00	4.00	75.00	↓	4.30	↓	26.00
W060075060WT	**60.00**	↓	60.00	75.00	6.00	75.00	↓	6.30	↓	27.15
W065080040WT	**65.00**	+ 0.00 - 0.06	65.00	80.00	4.00	80.00	↓	4.30	↓	28.51
W065080060WT	**65.00**	↓	65.00	80.00	6.00	80.00	↓	6.30	↓	30.47
W065080080WT*	**65.00**	↓	65.00	80.00	8.00	80.00	↓	8.40	↓	33.18
W065085050WT*	**65.00**	↓	65.00	85.00	5.00	85.00	↓	5.30	↓	31.64

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

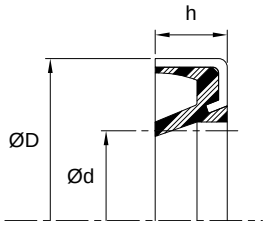
Ref.Number	Pin Diameter		Nominal Seal Dimensions			Housing Dimensions				$
		Tol.	d	D	h	D1	Tol.	h1	Tol.	
W065085060WT	**65.00**	+ 0.00 - 0.05	65.00	85.00	6.00	85.00	+ 0.05 - 0.00	6.30	+ 0.02 - 0.00	33.18
W070080060WT	**70.00**		70.00	80.00	6.00	80.00		6.30		30.47
W070085040WT	**70.00**		70.00	85.00	4.00	85.00		4.30		28.51
W070085060WT	**70.00**		70.00	85.00	6.00	85.00		6.30		32.92
W070090095WT*	**70.00**		70.00	90.00	9.50	90.00		9.90		37.18
W070095095WT*	**70.00**		70.00	95.00	9.50	95.00		9.90		39.83
W075090040WT*	**75.00**		75.00	90.00	4.00	90.00		4.30		25.07
W075090050WT	**75.00**		75.00	90.00	5.00	90.00		5.30		34.25
W075090095WT*	**75.00**		75.00	90.00	9.50	90.00		9.90		41.37
W075095070WT*	**75.00**		75.00	95.00	7.00	95.00		7.30		39.83
W075095095WT	**75.00**		75.00	95.00	9.50	95.00		9.90		44.29
W080095040WT	**80.00**		80.00	95.00	4.00	95.00		4.30		37.18
W080095060WT	**80.00**		80.00	95.00	6.00	95.00		6.30		39.41
W080100060WT*	**80.00**		80.00	100.00	6.00	100.00		6.30		40.70
W085100040WT	**85.00**		85.00	100.00	4.00	100.00		4.30		17.95
W090105040WT	**90.00**		90.00	105.00	4.00	105.00		4.30		43.41
W090105060WT	**90.00**		90.00	105.00	6.00	105.00		6.30		43.41
W090110080WT	**90.00**		90.00	110.00	8.00	110.00		8.40		43.41
W090110095WT*	**90.00**		90.00	110.00	9.50	110.00		9.90		54.71
W095110080WT*	**95.00**		95.00	110.00	8.00	110.00		8.40		54.71
W095110095WT*	**95.00**		95.00	110.00	9.50	110.00		9.90		54.71
W095115095WT	**95.00**		95.00	115.00	9.50	115.00		9.90		58.31
W100115040WT	**100.00**		100.00	115.00	4.00	115.00		4.30		42.25
W100115080WT	**100.00**		100.00	115.00	8.00	115.00		8.40		54.31
W100116080WT*	**100.00**	+ 0.00 - 0.06	100.00	116.00	8.00	116.00		8.40		54.31
W100120060WT	**100.00**		100.00	120.00	6.00	120.00		6.30		54.31
W100120080WT	**100.00**		100.00	120.00	8.00	120.00		8.40		56.75
W100120095WT	**100.00**		100.00	120.00	9.50	120.00		9.90		61.82
W100130080WT*	**100.00**		100.00	130.00	8.00	130.00		8.40		60.95
W110125080WT	**110.00**		110.00	125.00	8.00	125.00		8.40		60.95
W110125095WT*	**110.00**		110.00	125.00	9.50	125.00		9.90		65.62
W110130040WT*	**110.00**		110.00	130.00	4.00	130.00		4.40		66.21
W110130080WT	**110.00**		110.00	130.00	8.00	130.00		8.40		67.85
W110130095WT*	**110.00**		110.00	130.00	9.50	130.00		9.90		69.41
W110135080WT*	**110.00**		110.00	135.00	8.00	135.00		8.40		69.41
W110140080WT*	**110.00**		110.00	140.00	8.00	140.00		8.40		74.09
W120135080WT	**120.00**		120.00	135.00	8.00	135.00		8.40		67.85
W120135095WT*	**120.00**		120.00	135.00	9.50	135.00		9.90		73.40
W120140080WT	**120.00**		120.00	140.00	8.00	140.00		8.40		73.40
W120140095WT*	**120.00**		120.00	140.00	9.50	140.00		9.90		77.68
W125140040WT*	**125.00**		125.00	140.00	4.00	140.00		4.30		77.68
W125140080WT*	**125.00**		125.00	140.00	8.00	140.00		8.40		77.68
W130155095WT	**130.00**		130.00	155.00	9.50	155.00		9.90		90.33
W140155080WT	**140.00**		140.00	155.00	8.00	155.00		8.40		79.02
W160180095WT*	**160.00**		160.00	180.00	9.50	180.00		9.90		139.08
W190220080WT*	**190.00**	+0.05/-0.00	190.00	220.00	8.00	220.00		8.40		172.68

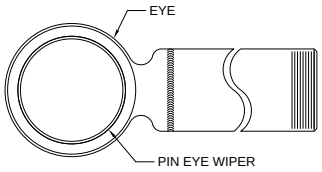
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WT/N - Pin wipers - Metric



Standard Material	Temperature Range
Nitrile/Steel	-31°F to +212°F (-35°C to +100°C)





Similar in use to the **WS-style**, the **WT-style** uses a double-shell with a nitrile sealing lip.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

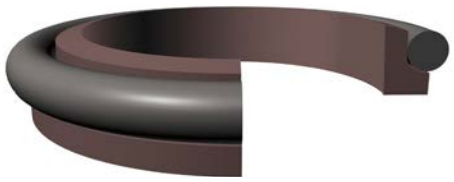
Ref.Number	Pin Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions D1	Tol.	h1	Tol.	$
W005009020WT/N*	**5.00**	+ 0.00 - 0.03	5.00	9.00	2.00	9.00	+ 0.03 - 0.00	2.10	+ 0.02 - 0.00	4.69
W006010020WT/N*	**6.00**		6.00	10.00	2.00	10.00		2.10		4.69
W006012020WT/N*	**6.00**		6.00	12.00	2.00	12.00		2.10		5.14
W008012030WT/N*	**8.00**		8.00	12.00	3.00	12.00		3.30		5.14
W008015030WT/N*	**8.00**		8.00	15.00	3.00	15.00		3.30		5.59
W010014030WT/N*	**10.00**		10.00	14.00	3.00	14.00		3.30		5.59
W010017030WT/N*	**10.00**		10.00	17.00	3.00	17.00		3.30		5.59
W012016030WT/N*	**12.00**		12.00	16.00	3.00	16.00		3.30		5.59
W012018030WT/N*	**12.00**		12.00	18.00	3.00	18.00		3.30		6.09
W012019030WT/N*	**12.00**		12.00	19.00	3.00	19.00		3.30		5.59
W014020030WT/N*	**14.00**		14.00	20.00	3.00	20.00		3.30		5.59
W015023030WT/N*	**15.00**		15.00	23.00	3.00	23.00		3.30		6.54
W016024030WT/N*	**16.00**		16.00	24.00	3.00	24.00		3.30		7.94
W020026040WT/N*	**20.00**	+ 0.00 - 0.04	20.00	26.00	4.00	26.00	+ 0.04 - 0.00	4.30		6.54
W022028040WT/N	**22.00**		22.00	28.00	4.00	28.00		4.30		6.54
W022030040WT/N*	**22.00**		22.00	30.00	4.00	30.00		4.30		6.54
W025032040WT/N*	**25.00**		25.00	32.00	4.00	32.00		4.30		6.54
W025033040WT/N*	**25.00**		25.00	33.00	4.00	33.00		4.30		6.54
W025035040WT/N*	**25.00**		25.00	35.00	4.00	35.00		4.30		6.54
W028035040WT/N*	**28.00**		28.00	35.00	4.00	35.00		4.30		7.94
W028037040WT/N*	**28.00**		28.00	37.00	4.00	37.00		4.30		7.94
W030035040WT/N*	**30.00**		30.00	35.00	4.00	35.00		4.30		8.40
W030037040WT/N*	**30.00**		30.00	37.00	4.00	37.00		4.30		8.40
W030040040WT/N	**30.00**		30.00	40.00	4.00	40.00		4.30		7.77

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

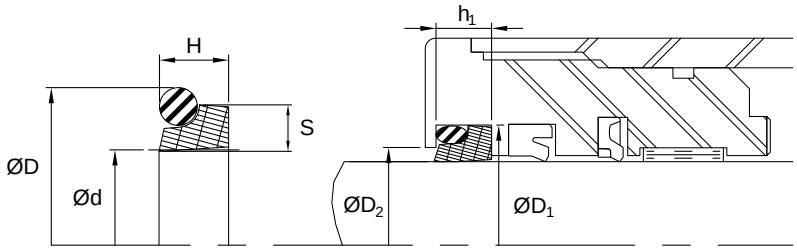
Ref.Number	Pin Diameter	Tol.	Nominal Seal Dimensions d	D	h	Housing Dimensions D1	Tol.	h1	Tol.	$
W032042040WT/N*	**32.00**	+ 0.00 - 0.04	32.00	42.00	4.00	42.00	+ 0.00 - 0.04	4.30	+ 0.02 - 0.00	8.40
W035042040WT/N	**35.00**		35.00	42.00	4.00	42.00		4.30		8.40
W035045040WT/N*	**35.00**		35.00	45.00	4.00	45.00		4.30		7.77
W038048040WT/N*	**38.00**		38.00	48.00	4.00	48.00		4.30		7.77
W040047040WT/N*	**40.00**	+ 0.00 - 0.05	40.00	47.00	4.00	47.00		4.30		8.40
W040050040WT/N	**40.00**		40.00	50.00	4.00	50.00		4.30		13.04
W042052040WT/N*	**42.00**		42.00	52.00	4.00	52.00	+ 0.00 - 0.05	4.30		8.01
W045055040WT/N	**45.00**		45.00	55.00	4.00	55.00		4.30		8.06
W045060040WT/N*	**45.00**		45.00	60.00	4.00	60.00		4.30		9.01
W050058040WT/N*	**50.00**		50.00	58.00	4.00	58.00		4.30		7.51
W050060040WT/N	**50.00**		50.00	60.00	4.00	60.00		4.30		9.01
W050062050WT/N*	**50.00**		50.00	62.00	5.00	62.00		5.30		10.74
W050065040WT/N	**50.00**		50.00	65.00	4.00	65.00		4.30		11.24
W052068060WT/N*	**52.00**		52.00	68.00	6.00	68.00		6.30		11.98
W055063050WT/N*	**55.00**		55.00	63.00	5.00	63.00		5.30		12.03
W055068040WT/N	**55.00**		55.00	68.00	4.00	68.00		4.30		12.23
W055070040WT/N	**55.00**		55.00	70.00	4.00	70.00		4.30		12.74
W060075040WT/N	**60.00**		60.00	75.00	4.00	75.00		4.30		13.03
W063078040WT/N*	**63.00**		63.00	78.00	4.00	78.00		4.30		14.22
W065080040WT/N	**65.00**	+ 0.00 - 0.06	65.00	80.00	4.00	80.00		4.30		15.04
W070085040WT/N	**70.00**		70.00	85.00	4.00	85.00		4.30		16.01
W075090040WT/N	**75.00**	+ 0.00 - 0.09	75.00	90.00	4.00	90.00		4.30		18.74
W080095040WT/N	**80.00**		80.00	95.00	4.00	95.00		4.30		20.23
W085100040WT/N	**85.00**		85.00	100.00	4.00	100.00		4.30		26.01
W090104040WT/N*	**90.00**		90.00	104.00	4.00	104.00		4.30		26.23
W090105040WT/N	**90.00**		90.00	105.00	4.00	105.00		4.30		26.80
W095110040WT/N	**95.00**		95.00	110.00	4.00	110.00		4.30		31.23
W100115040WT/N	**100.00**		100.00	115.00	4.00	115.00		4.30		30.99
W100120040WT/N*	**100.00**	+ 0.00 - 0.13	100.00	120.00	4.00	120.00	+ 0.00 - 0.06	4.30		34.18
W110125040WT/N	**110.00**		110.00	125.00	4.00	125.00		4.40		37.24
W110130040WT/N	**110.00**		110.00	130.00	4.00	130.00		4.40		40.01
W120135040WT/N	**120.00**		120.00	135.00	4.00	135.00		4.40		41.20
W120140040WT/N	**120.00**		120.00	140.00	4.00	140.00		4.40		56.21
W120145040WT/N	**120.00**		120.00	145.00	4.00	145.00		4.40		62.53
W125140040WT/N*	**125.00**		125.00	140.00	4.00	140.00		4.40		72.60
W160180050WT/N	**160.00**		160.00	180.00	5.00	180.00		5.30		84.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WV - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
40% BR.PTFE/NBR	-50°F to +250°F (-45°C to +121°C)	< 50 ft/s (15 m/s)



With its aggressive O'Ring loaded design and a PTFE lip, this wiper offers great wiping and scraping action while insuring no particles can migrate through the static side of the groove.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	$
W006010037WV*	**6.00**	+ 0.00 - 0.04					10.80	+ 0.07 - 0.00	8.70	+ 0.10 - 0.00	3.70	+ 0.20 - 0.00	26.41
W008012037WV*	**8.00**						12.80		10.70		3.70		27.00
W010014037WV*	**10.00**						14.80		12.70		3.70		30.50
W012018050WV*	**12.00**						18.80	+ 0.08 - 0.00	15.50		5.00		39.59
W014020050WV*	**14.00**						20.80		17.50		5.00		40.56
W015021050WV*	**15.00**						21.80		18.50		5.00		41.29
W016022050WV*	**16.00**						22.80		19.50		5.00		42.36
W018024050WV*	**18.00**						24.80		21.50		5.00		42.90
W020026050WV*	**20.00**						26.80		23.50		5.00		44.02
W022028050WV	**22.00**						28.80		25.50		5.00		45.65
W025031050WV	**25.00**						31.80	+ 0.10 - 0.00	28.50		5.00		48.76
W028034050WV	**28.00**						34.80		31.50		5.00		49.61
W030036050WV*	**30.00**						36.80		33.50		5.00		50.02
W032038050WV*	**32.00**						38.80		35.50		5.00		50.60
W035041050WV	**35.00**						41.80		38.50		5.00		51.17
W036042050WV	**36.00**						42.80		39.50		5.00		51.17
W038044050WV*	**38.00**						44.80		41.50		5.00		51.45
W040046050WV	**40.00**	+ 0.00 - 0.05					46.80		43.50		5.00		51.71
W042048050WV*	**42.00**						48.80		45.50		5.00		52.00
W045051050WV*	**45.00**						51.80	+ 0.12 - 0.00	48.50		5.00		52.43
W048054050WV*	**48.00**						54.80		51.50		5.00		52.84
W050056050WV	**50.00**						56.80		53.50		5.00		52.84
W052058050WV*	**52.00**						58.80		55.50		5.00		53.26

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WV series - 40% BR.PTFE/NBR

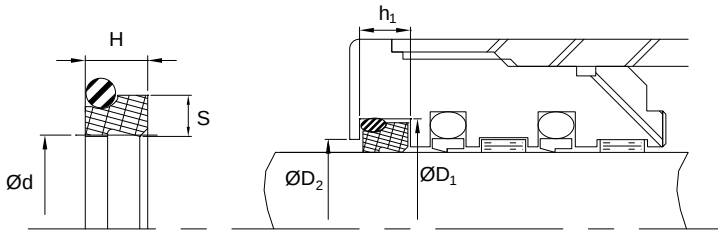
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions						$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	
W055061050WV*	**55.00**	+ 0.00 - 0.05					61.80	+ 0.12 - 0.00	58.50	+ 0.10 - 0.00	5.00	+ 0.20 - 0.00	53.12
W056062050WV*	**56.00**						62.80		59.50		5.00		53.26
W060066050WV	**60.00**						66.80		63.50		5.00		53.68
W063069050WV	**63.00**						69.80		66.50		5.00		54.23
W065073060WV*	**65.00**	+ 0.00 - 0.06					73.80		69.00		6.00		57.49
W070078060WV*	**70.00**						78.80		74.00		6.00		60.87
W075083060WV*	**75.00**						83.80	+ 0.14 - 0.00	79.00		6.00		62.72
W080088060WV	**80.00**	+ 0.00 - 0.09					88.80		84.00		6.00		64.83
W085093060WV*	**85.00**						93.80		89.00		6.00		66.94
W090098060WV*	**90.00**						98.80		94.00		6.00		68.62
W095103060WV*	**95.00**						103.80		99.00		6.00		71.74
W100108060WV*	**100.00**						108.80		104.00		6.00		74.43
W105113060WV*	**105.00**	+ 0.00 - 0.13					113.80		109.00		6.00		80.48
W110118060WV	**110.00**						118.80		114.00		6.00		80.48
W115123060WV*	**115.00**						123.80	+ 0.16 - 0.00	119.00		6.00		81.30
W120128060WV*	**120.00**						128.80		124.00		6.00		86.23
W125133060WV*	**125.00**						133.80		129.00		6.00		89.49
W130138060WV	**130.00**						138.80		134.00		6.00		92.45
W140148060WV*	**140.00**						148.80		144.00		6.00		99.36
W150158060WV*	**150.00**						158.80		154.00		6.00		106.12
W160168060WV*	**160.00**						168.80		164.00		6.00		113.59
W170178060WV*	**170.00**						178.80		174.00		6.00		122.48
W180188060WV	**180.00**						188.80	+ 0.18 - 0.00	184.00		6.00		129.92
W190198060WV	**190.00**						198.80		194.00		6.00		138.95
W200208060WV*	**200.00**						208.80		204.00		6.00		148.25
W210218060WV*	**210.00**						218.80		214.00		6.00		159.96
W220228060WV*	**220.00**						228.80		224.00		6.00		171.50
W225233060WV*	**225.00**						233.80		229.00		6.00		177.99
W230238060WV*	**230.00**						238.80		234.00		6.00		184.48
W240248060WV*	**240.00**						248.80		244.00		6.00		202.49
W250258060WV*	**250.00**						258.80	+ 0.21 - 0.00	254.00		6.00		238.88
W260272084WV*	**260.00**						272.20		264.50		8.40		381.36
W270282084WV*	**270.00**						282.20		274.50		8.40		397.54
W280292084WV*	**280.00**						292.20		274.50		8.40		413.91
W290302084WV*	**290.00**						302.20		294.50		8.40		435.61
W300312084WV*	**300.00**						312.20		304.50		8.40		451.80

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WW - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
40% BR.PTFE/NBR	-50°F to +250°F (-45°C to +121°C)	<50 ft/s (15 m/s)
Polyurethane/Nitrile	-40°F to +230°F (-40°C to +110°C)	<3.3 ft/s (1 m/s)



Similar to the **WV-style**, the **WW-style** rod wiper incorporates a dual-lip configuration for added wiping action.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W008012037WW*	**8.00**	+0.00 -0.04					12.80	+0.00 -0.04	9.50	+0.09/-0.00	3.70	+0.20 -0.00	2.00	+0.20 -0.20	28.11
W010014037WW*	**10.00**						14.80		11.50	+0.11 -0.00	3.70		2.00		28.11
W012018050WW*	**12.00**						18.80		13.50		5.00		2.00		28.11
W014020050WW*	**14.00**						20.80		15.50		5.00		2.00		28.11
W015021050WW*	**15.00**						21.80		16.50		5.00		2.00		28.11
W016022050WW	**16.00**						22.80		17.50		5.00		2.00		28.11
W018024050WW*	**18.00**						24.80		19.50		5.00		2.00		28.11
W020026050WW	**20.00**						26.80	+0.05 -0.00	21.50	+0.13 -0.00	5.00		2.00		28.11
W022028050WW	**22.00**						28.80		23.50		5.00		2.00		28.11
W025031050WW	**25.00**						31.80		26.50		5.00		2.00		28.11
W028034050WW	**28.00**						34.80		29.50		5.00		2.00		37.06
W030036050WW*	**30.00**						36.80		31.50		5.00		2.00		37.06
W032038050WW*	**32.00**						38.80	+0.06 -0.00	33.50	+0.16 -0.00	5.00		2.00		42.04
W035041050WW	**35.00**						41.80		36.50		5.00		2.00		42.04
W036042050WW*	**36.00**						42.80		37.50		5.00		2.00		42.04
W040046050WW	**40.00**	+0.00 -0.05					46.80		41.50		5.00		2.00		42.04
W042048050WW*	**42.00**						48.80		43.50		5.00		2.00		42.04
W045051050WW*	**45.00**						51.80		46.50		5.00		2.00		46.99
W048054050WW*	**48.00**						54.80		49.50		5.00		2.00		46.99
W050056050WW	**50.00**						56.80		51.50		5.00		2.00		46.99
W050058053WW*	**50.00**						58.80		51.50		5.30		2.00		36.38
W050058063WW/U	**50.00**						58.80		51.50		6.30		3.00		77.09
W052058050WW*	**52.00**						58.80	+0.07/-0.00	53.50	+0.19/-0.00	5.00		2.00		46.99

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WW series - 40% BR.PTFE/NBR, AU/NBR

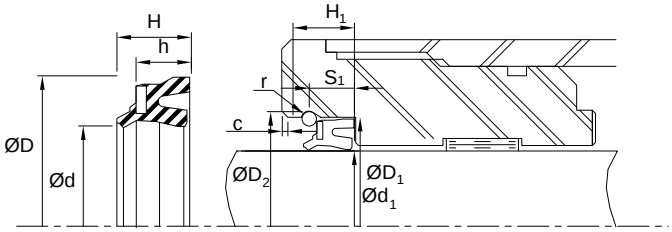
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W055061050WW*	**55.00**	+ 0.00 - 0.05					61.80	+ 0.00 - 0.07	56.50	+ 0.19 - 0.00	5.00	+ 0.20 - 0.00	2.00	+ 0.20 - 0.20	46.99
W056062050WW*	**56.00**						62.80		57.50		5.00		2.00		46.99
W060066050WW	**60.00**						66.80		61.50		5.00		2.00		52.14
W063069050WW*	**63.00**						69.80		64.50		5.00		2.00		52.14
W065073060WW*	**65.00**	+ 0.00 - 0.06					73.80		66.50		6.00		3.00		52.14
W070078060WW*	**70.00**						78.80		71.50		6.00		3.00		57.09
W075083060WW*	**75.00**						83.80		76.50		6.00		3.00		57.09
W080088060WW	**80.00**	+ 0.00 - 0.09					88.80		81.50		6.00		3.00		57.09
W085093060WW	**85.00**						93.80	+ 0.09 - 0.00	86.50	+ 0.22 - 0.00	6.00		3.00		57.29
W085097081WW/U	**85.00**						97.20		87.00		8.10		4.00		80.44
W090098060WW	**90.00**						98.80		91.50		6.00		3.00		57.29
W090102081WW/U	**90.00**						102.20		92.00		8.10		4.00		172.52
W095103060WW*	**95.00**						103.80		96.50		6.00		3.00		62.63
W095107081WW/U	**95.00**						107.20		97.00		8.10		4.00		85.79
W100108060WW	**100.00**						108.80		101.50		6.00		3.00		62.63
W105113060WW*	**105.00**	+ 0.00 - 0.13					113.80		106.50		6.00		3.00		62.63
W110118060WW	**110.00**						118.80		111.50		6.00		3.00		62.63
W110122081WW/U	**110.00**						122.20		112.00		8.10		4.00		97.11
W115123060WW	**115.00**						123.80		116.50		6.00		3.00		69.06
W120128060WW*	**120.00**						128.80		121.50		6.00		3.00		69.06
W125133060WW*	**125.00**						133.80	+ 0.10 - 0.00	126.50	+ 0.25 - 0.00	6.00		3.00		69.06
W130138060WW	**130.00**						138.80		131.50		6.00		3.00		74.22
W135143060WW*	**135.00**						143.80		136.50		6.00		3.00		74.22
W140148060WW*	**140.00**						148.80		141.50		6.00		3.00		74.22
W150158060WW*	**150.00**						158.80		151.50		6.00		3.00		84.18
W160168060WW*	**160.00**						168.80		161.50		6.00		3.00		103.72
W170178060WW*	**170.00**						178.80		171.50		6.00		3.00		129.61
W180188060WW	**180.00**						188.80		181.50		6.00		3.00		150.21
W180196095WW*	**180.00**						196.00		182.50		9.50		5.00		168.24
W190198060WW*	**190.00**						198.80	+ 0.12 - 0.00	191.50	+ 0.29 - 0.00	6.00		3.00		169.20
W200208060WW*	**200.00**						208.80		201.50		6.00		3.00		171.20
W210218060WW*	**210.00**						218.80		211.50		6.00		3.00		172.40
W220228060WW	**220.00**						228.80		221.50		6.00		3.00		174.45
W230238060WW*	**230.00**						238.80		231.50		6.00		3.00		178.98
W230246095WW/30K*	**230.00**						246.00		232.50		9.50		5.00		180.21
W240248060WW*	**240.00**						248.80		241.50		6.00		3.00		182.60
W250258060WW*	**250.00**						258.80		251.50		6.00		3.00		184.21
W260272084WW*	**260.00**						272.20	+ 0.13 - 0.00	262.00	+ 0.32 - 0.00	8.40		4.00		185.99
W270282084WW*	**270.00**						282.20		272.00		8.40		4.00		188.99
W280292084WW*	**280.00**						292.20		282.00		8.40		4.00		196.20
W290302084WW*	**290.00**						302.20		292.00		8.40		4.00		211.24
W300316095WW*	**300.00**						316.00		302.50		9.50		5.00		246.99
W350366095WW*	**350.00**						366.00		352.50		9.50		5.00		265.36
W380396095WW	**380.00**						396.00		382.50		9.50		5.00		392.73

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WZ - Rod wipers - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Steel	-52°F to +176°F (-30°C to +105°C)	≤232 psi (≤16 bar)	<3.3 ft/s (1 m/s)



Compact combination wiper seal/rod seal with metal reinforcement and a specialized pneumatic sealing edge, designed to seal inward and wipe outward, allowing easy external replacement.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

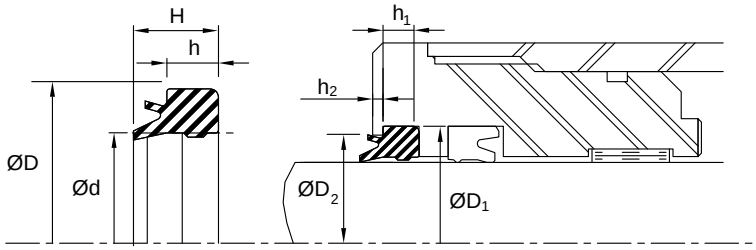
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions							$
	d1	Tol.	d	D	h	H	D1	Tol.	D2	Tol	S1	Tol.	r	c	
W010017070WZ*	**10.00**	-.013/-.049	10.00	17.00	7.00	9.50	17.00	+0.07/-0.00	19.00	+0.10 -0.10	8.50	+0.20 -0.00	1.10	1.50	5.29
W012020060WZ*	**12.00**	-.016 -.059	12.00	20.00	6.00	9.50	20.00	+.084 -.000	22.00		8.50		1.10	1.50	5.98
W012022070WZ*	**12.00**		12.00	22.00	7.00	9.50	22.00		24.00		8.50		1.10	1.50	6.04
W014024070WZ*	**14.00**		14.00	24.00	7.00	9.50	24.00		26.00		8.50		1.10	1.50	6.36
W016026070WZ*	**16.00**		16.00	26.00	7.00	9.50	26.00		28.00		8.50		1.10	1.50	6.87
W018026060WZ*	**18.00**		18.00	26.00	6.00	9.50	26.00		28.00		8.50		1.10	1.50	7.01
W020030070WZ	**20.00**	-.020 -.053	20.00	30.00	7.00	9.50	30.00	+0.10 -0.00	32.00		8.50		1.10	2.00	7.26
W022032070WZ	**22.00**		22.00	32.00	7.00	9.50	32.00		34.00		8.50		1.10	2.00	7.52
W025035070WZ*	**25.00**		25.00	35.00	7.00	9.50	35.00		37.50		8.50		1.40	2.00	7.89
W030040070WZ*	**30.00**		30.00	40.00	7.00	9.50	40.00		42.50		8.50		1.40	2.00	8.24
W032042070WZ	**32.00**	-.025 -.087	32.00	42.00	7.00	9.50	42.00		44.50		8.50		1.40	2.00	8.56
W035045070WZ*	**35.00**		35.00	45.00	7.00	9.50	45.00		47.50		8.50		1.40	2.00	8.99
W040050070WZ	**40.00**		40.00	50.00	7.00	9.50	50.00	+0.12 -0.00	52.50		8.50		1.40	2.00	10.01
W040050070WZ/V*	**40.00**		40.00	50.00	7.00	9.50	50.00		52.50		8.50		1.40	2.00	49.67
W045055070WZ*	**45.00**		45.00	55.00	7.00	9.50	55.00		57.50		8.50		1.40	2.00	12.41
W050060070WZ*	**50.00**		50.00	60.00	7.00	9.50	60.00		62.50		8.50		1.80	2.00	15.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W6 - Rod wipers - Metric



Standard Material	Temperature Range	Surface Speed
Polyurethane	-31°F to +230°F (-35°C to +110°C)	<3.3 ft/s (1 m/s)



W6 wiper with an additional static sealing lip that prevents dirt and water spray ingress. Compared to standard wipers, it offers superior wiping performance, improved contamination removal, simple groove design, no hydrodynamic pressure or twisting, and easy installation.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W016024040W6*	**16.00**	+0.00 -0.04	16.00	24.00	4.00	7.00	24.00	+0.08 -0.00	22.00	+0.08 -0.00	4.00	+0.10 -0.00	1.00	+0.20 -0.20	O/R
W018026040W6*	**18.00**		18.00	26.00	4.00	7.00	26.00		24.00		4.00		1.00		O/R
W020028040W6*	**20.00**		20.00	28.00	4.00	7.00	28.00		26.00		4.00		1.00		10.08
W022020040W6*	**22.00**		22.00	30.00	4.00	7.00	30.00		28.00		4.00		1.00		10.08
W025033040W6*	**25.00**		25.00	33.00	4.00	7.00	33.00		31.00		4.00		1.00		10.08
W028036040W6*	**28.00**		28.00	36.00	4.00	7.00	36.00		34.00		4.00		1.00		10.48
W030038040W6*	**30.00**		30.00	38.00	4.00	7.00	38.00		36.00		4.00		1.00		10.90
W032040040W6*	**32.00**		32.00	40.00	4.00	7.00	40.00		38.00		4.00		1.00		11.77
W032040050W6*	**32.00**		32.00	40.00	5.00	7.00	40.00		38.00		5.00		1.00		11.77
W035043040W6*	**35.00**		35.00	43.00	4.00	7.00	43.00		41.00		4.00		1.00		11.77
W036044040W6	**36.00**		36.00	44.00	4.00	7.00	44.00		42.00		4.00		1.00		12.14
W040048040W6*	**40.00**	+0.00 -0.05	40.00	48.00	4.00	7.00	48.00		46.00		4.00		1.00		12.39
W040048050W6*	**40.00**		40.00	48.00	5.00	7.00	48.00		46.00		5.00		1.00		12.39
W040048050W6-1*	**40.00**		40.00	48.00	5.00	7.80	48.00		46.00		5.00		1.00		12.39
W045053040W6*	**45.00**		45.00	53.00	4.00	7.00	53.00		51.00		4.00		1.00		12.91
W045053050W6*	**45.00**		45.00	53.00	5.00	7.80	53.00		51.00		5.00		1.00		13.72
W050058040W6*	**50.00**		50.00	58.00	4.00	7.00	58.00		56.00		4.00		1.00		14.46
W050058050W6*	**50.00**		50.00	58.00	5.00	7.00	58.00		56.00		5.00		1.00		14.46
W050058050W6-1*	**50.00**		50.00	58.00	5.00	7.80	58.00		56.00		5.00		1.00		14.46
W055063040W6*	**55.00**		55.00	63.00	4.00	7.00	63.00		61.00		4.00		1.00		15.10
W056066063W6*	**56.00**		56.00	66.00	6.30	9.00	66.00		63.00		6.30		1.70		16.01
W060068040W6	**60.00**		60.00	68.00	4.00	7.00	68.00		66.00		4.00		1.00		16.21
W063071040W6*	**63.00**		63.00	71.00	4.00	7.00	71.00		69.00		4.00		1.00		18.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

W6 series - AU 94A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions								$
			d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W065073040W6*	**65.00**	+ 0.00 - 0.06	65.00	73.00	4.00	7.00	73.00	+ 0.08 - 0.00	71.00	+ 0.08 - 0.00	4.00	+ 0.10 - 0.00	1.00	+ 0.20 - 0.20	21.34
W065075070W6*	**65.00**		65.00	75.00	7.00	9.50	75.00		72.00		7.00		1.00		21.79
W070078040W6*	**70.00**		70.00	78.00	4.00	7.00	78.00		76.00	+ 0.10 - 0.00	4.00		1.00		22.08
W070080040W6*	**70.00**		70.00	80.00	4.00	7.00	80.00	+ 0.10 - 0.00	78.00		4.00		1.00		23.10
W070080063W6*	**70.00**		70.00	80.00	6.30	8.30	80.00		78.00		6.30		1.70		23.10
W070080063W6-1*	**70.00**		70.00	80.00	6.30	9.00	80.00		78.00		6.30		1.70		23.10
W075083040W6*	**75.00**		75.00	83.00	4.00	7.00	83.00		81.00		4.00		1.00		17.80
W080088040W6*	**80.00**	+ 0.00 - 0.09	80.00	88.00	4.00	7.00	88.00		86.00		4.00		1.00		20.90
W085093040W6*	**85.00**		85.00	93.00	4.00	7.00	93.00		91.00		4.00		1.00		19.67
W090098040W6*	**90.00**		90.00	98.00	4.00	7.00	98.00		96.00		4.00		1.00		20.32
W095103040W6*	**95.00**		95.00	103.00	4.00	7.00	103.00		101.00		4.00		1.00		22.01
W100108040W6*	**100.00**		100.00	108.00	4.00	7.00	108.00		106.00		4.00		1.00		22.68
W100115095W6*	**100.00**		100.00	115.00	9.50	13.00	115.00		110.00		9.50		2.50		45.34
W105113040W6*	**105.00**	+ 0.00 - 0.13	105.00	113.00	4.00	7.00	113.00		111.00		4.00		1.00		O/R
W110122055W6*	**110.00**		110.00	122.00	5.50	10.00	122.00		119.00		5.50		1.50		O/R
W115127055W6*	**115.00**		115.00	127.00	5.50	10.00	127.00		124.00		5.50		1.50		O/R
W120132055W6*	**120.00**		120.00	132.00	5.50	10.00	132.00		129.00		5.50		1.50		O/R
W125133040W6*	**125.00**		125.00	133.00	4.00	7.00	133.00		131.00		4.00		1.00		O/R
W125137055W6*	**125.00**		125.00	137.00	5.50	10.00	137.00		134.00		5.50		1.50		O/R
W125140095W6*	**125.00**		125.00	140.00	9.50	13.00	140.00		135.00		9.50		2.50		O/R
W130142055W6*	**130.00**		130.00	142.00	5.50	10.00	142.00		139.00		5.50		1.50		O/R
W140152055W6*	**140.00**		140.00	152.00	5.50	10.00	152.00		149.00		5.50		1.50		O/R
W150162055W6*	**150.00**		150.00	162.00	5.50	10.00	162.00		159.00		5.50		1.50		O/R
W160172055W6*	**160.00**		160.00	172.00	5.50	10.00	172.00		169.00		5.50		1.50		O/R
W170182055W6*	**170.00**		170.00	182.00	5.50	10.00	182.00	+ 0.13 - 0.00	179.00		5.50		1.50		O/R
W180192055W6*	**180.00**		180.00	192.00	5.50	10.00	192.00		189.00	+ 0.13 - 0.00	5.50		1.50		O/R
W200212055W6*	**200.00**		200.00	212.00	5.50	10.00	212.00		209.00		5.50		1.50		O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

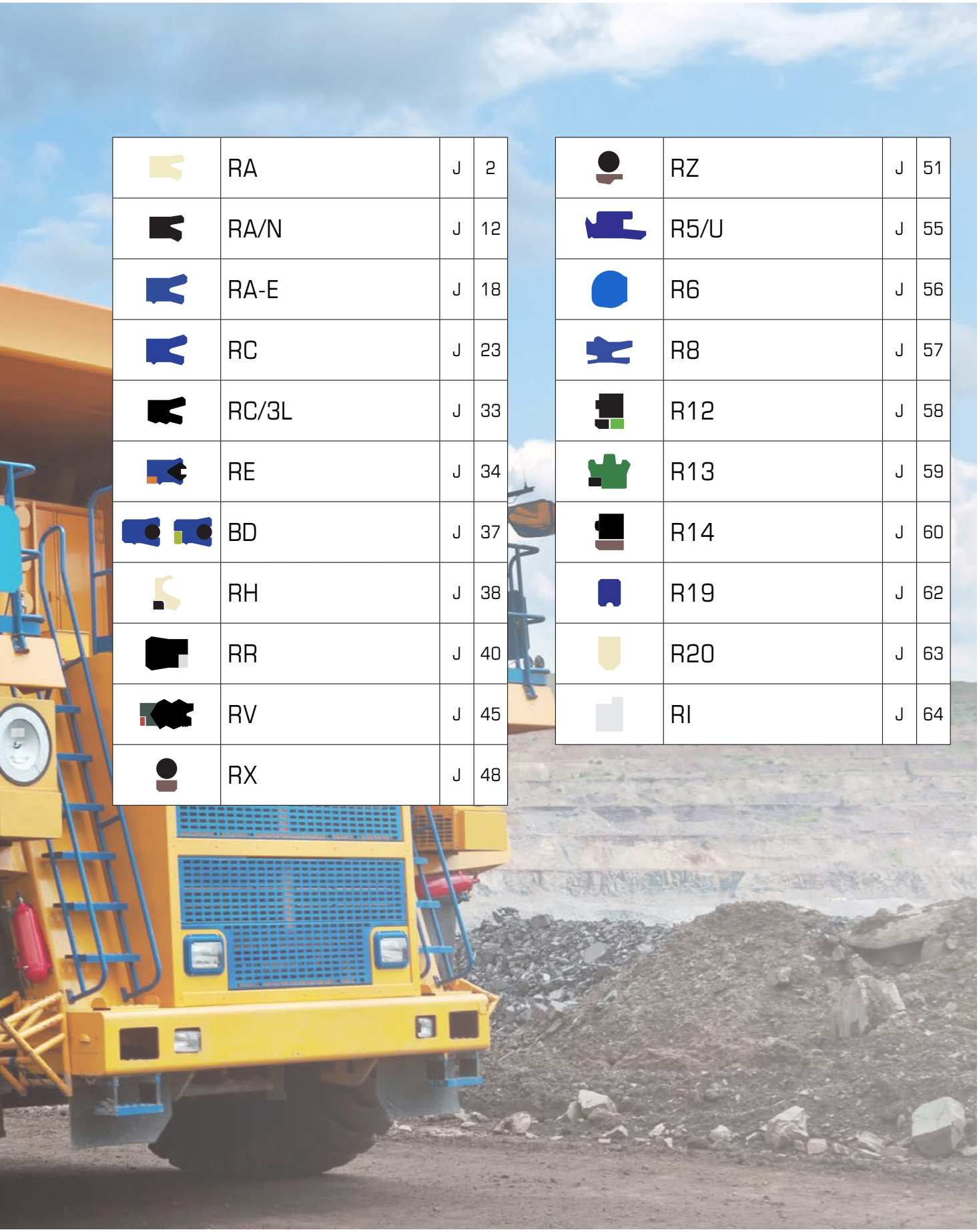
Though this product offering contains a wide selection of commonly used parts in the marketplace, it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request, please do not hesitate to contact us and we will do our best to help you locate the required part.









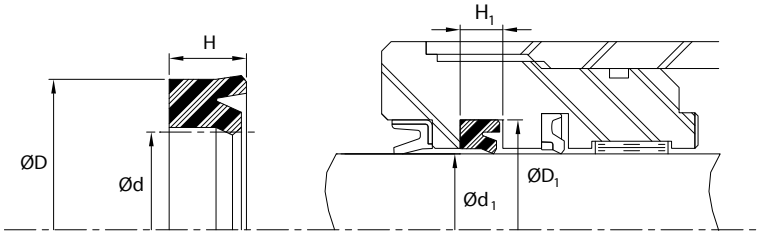
	RA	J	2
	RA/N	J	12
	RA-E	J	18
	RC	J	23
	RC/3L	J	33
	RE	J	34
	BD	J	37
	RH	J	38
	RR	J	40
	RV	J	45
	RX	J	48

	RZ	J	51
	R5/U	J	55
	R6	J	56
	R8	J	57
	R12	J	58
	R13	J	59
	R14	J	60
	R19	J	62
	R20	J	63
	RI	J	64

RA - Rod seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-31°F to +212°F (-35°C to +100°C)	≤6000 psi (≤414 bar)	< 1.6 ft/s (0.5 m/s)



RA-style rod seal is a non-symmetrical hydraulic U-Cup type seal. The machined, beveled lip faces the rod to provide both low and high pressures as well as to wipe the rod of the fluid film. Its robust construction makes it particularly well suited for applications in mobile hydraulics.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R008016050RA*	**8.00**	+ 0.00 - 0.04	8.00	16.00	5.00	8.00	+ 0.00 - 0.04	16.00	+ 0.07 - 0.00	5.70	+ 0.30 - 0.00	6.82
R008018060RA*	**8.00**		8.00	18.00	6.00	8.00		18.00		7.00		6.82
R008018075RA*	**8.00**		8.00	18.00	7.50	8.00		18.00		8.50		6.82
R009017050RA*	**9.00**		9.00	17.00	5.00	9.00		17.00		5.70		6.82
R009019060RA*	**9.00**		9.00	19.00	6.00	9.00		19.00	+ 0.08 - 0.00	7.00		6.82
R009019075RA*	**9.00**		9.00	19.00	7.50	9.00		19.00		8.50		6.82
R009019080RA*	**9.00**		9.00	19.00	8.00	9.00		19.00		9.00		6.82
R010018050RA*	**10.00**		10.00	18.00	5.00	10.00		18.00	+0.07/-0.00	5.70		6.82
R010020060RA*	**10.00**		10.00	20.00	6.00	10.00		20.00	+ 0.08 - 0.00	7.00		6.82
R010020075RA*	**10.00**		10.00	20.00	7.50	10.00		20.00		8.50		6.82
R010020080RA*	**10.00**		10.00	20.00	8.00	10.00		20.00		9.00		6.82
R012020050RA-1*	**12.50**		12.50	20.50	5.00	12.50		20.50		6.00		9.84
R014020048RA*	**14.00**		14.00	20.00	4.80	14.00		20.00		5.50		9.06
R014022050RA*	**14.00**		14.00	22.00	5.00	14.00		22.00		5.70		11.16
R014022110RA*	**14.00**		14.00	22.00	11.00	14.00		22.00		12.00		9.06
R014024060RA*	**14.00**		14.00	24.00	6.00	14.00		24.00		7.00		7.64
R014024075RA*	**14.00**		14.00	24.00	7.50	14.00		24.00		8.50		7.64
R014024080RA*	**14.00**		14.00	24.00	8.00	14.00		24.00		9.00		12.99
R015023050RA*	**15.00**		15.00	23.00	5.00	15.00		23.00		5.70		11.16
R015025060RA*	**15.00**		15.00	25.00	6.00	15.00		25.00		7.00		9.06
R015025080RA*	**15.00**		15.00	25.00	8.00	15.00		25.00		9.00		9.06
R015028080RA*	**15.00**		15.00	28.00	8.00	15.00		28.00		9.00		9.06
R015028100RA*	**15.00**		15.00	28.00	10.00	15.00		28.00		11.00		9.06

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R016024050RA*	**16.00**	+ 0.00 - 0.04	16.00	24.00	5.00	16.00	+ 0.00 - 0.04	24.00	+ 0.08 - 0.00	5.70	+ 0.30 - 0.00	11.16
R016024060RA*	**16.00**		16.00	24.00	6.00	16.00		24.00		7.00		0.00
R016026060RA*	**16.00**		16.00	26.00	6.00	16.00		26.00		7.00		9.06
R016026075RA*	**16.00**		16.00	26.00	7.50	16.00		26.00		8.50		9.06
R016026080RA*	**16.00**		16.00	26.00	8.00	16.00		26.00		9.00		9.06
R018026050RA*	**18.00**		18.00	26.00	5.00	18.00		26.00		5.70		11.16
R018028060RA*	**18.00**		18.00	28.00	6.00	18.00		28.00		7.00		9.06
R018028080RA*	**18.00**		18.00	28.00	8.00	18.00		28.00		9.00		9.06
R018031100RA*	**18.00**		18.00	31.00	10.00	18.00		31.00	+0.10/- 0.00	11.00		10.62
R019027050RA*	**19.00**		19.00	27.00	5.00	19.00		27.00	+ 0.08 - 0.00	5.70		9.06
R020025050RA*	**20.00**		20.00	25.00	5.00	20.00		25.00		5.70		10.99
R020028057RA*	**20.00**		20.00	28.00	5.70	20.00		28.00		6.30		19.86
R020033080RA*	**20.00**		20.00	33.00	8.00	20.00		33.00	+ 0.10 - 0.00	9.00		9.06
R020033100RA*	**20.00**		20.00	33.00	10.00	20.00		33.00		11.00		9.06
R022030050RA-1*	**22.40**		22.40	30.00	5.00	22.40		30.00		6.00		9.84
R022030070RA*	**22.00**		22.00	30.00	7.00	22.00		30.00		8.00		9.06
R022035100RA*	**22.00**		22.00	35.00	10.00	22.00		35.00		11.00		9.06
R024034060RA*	**24.00**		24.00	34.00	6.00	24.00		34.00		7.00		22.62
R025033050RA	**25.00**		25.00	33.00	5.00	25.00		33.00		5.70		13.07
R025035050RA	**25.00**		25.00	35.00	5.00	25.00		35.00		5.70		11.16
R025035080RA*	**25.00**		25.00	35.00	8.00	25.00		35.00		9.00		13.93
R025035090RA*	**25.00**		25.00	35.00	9.00	25.00		35.00		10.00		9.06
R025038080RA*	**25.00**		25.00	38.00	8.00	25.00		38.00		9.00		9.06
R025038100RA*	**25.00**		25.00	38.00	10.00	25.00		38.00		11.00		10.40
R025040090RA*	**25.00**		25.00	40.00	9.00	25.00		40.00		10.00		10.40
R025040100RA*	**25.00**		25.00	40.00	10.00	25.00		40.00		11.00		10.40
R026036080RA*	**26.00**		26.00	36.00	8.00	26.00		36.00		9.00		10.40
R027040100RA*	**27.00**		27.00	40.00	10.00	27.00		40.00		11.00		10.40
R028034040RA*	**28.00**		28.00	34.00	4.00	28.00		34.00		4.70		10.40
R028035050RA-1*	**28.00**		28.00	35.50	5.00	28.00		35.50		6.00		9.84
R028036050RA	**28.00**		28.00	36.00	5.00	28.00		36.00		5.70		10.40
R028038060RA*	**28.00**		28.00	38.00	6.00	28.00		38.00		7.00		10.40
R028038080RA	**28.00**		28.00	38.00	8.00	28.00		38.00		9.00		10.40
R028041080RA*	**28.00**		28.00	41.00	8.00	28.00		41.00		9.00		10.40
R028041100RA*	**28.00**		28.00	41.00	10.00	28.00		41.00		11.00		10.40
R028043090RA*	**28.00**		28.00	43.00	9.00	28.00		43.00		10.00		10.40
R028043100RA*	**28.00**		28.00	43.00	10.00	28.00		43.00		11.00		10.40
R030036040RA*	**30.00**		30.00	36.00	4.00	30.00		36.00		4.70		10.40
R030037060RA*	**30.00**		30.00	37.00	6.00	30.00		37.00		7.00		10.40
R030038050RA*	**30.00**		30.00	38.00	5.00	30.00		38.00		5.70		10.40
R030040080RA*	**30.00**		30.00	40.00	8.00	30.00		40.00		9.00		16.81
R030043100RA	**30.00**		30.00	43.00	10.00	30.00		43.00		11.00		14.54
R030045090RA	**30.00**		30.00	45.00	9.00	30.00		45.00		10.00		23.66
R030045100RA	**30.00**		30.00	45.00	10.00	30.00		45.00		11.00		10.40
R031041060RA-1*	**31.50**		31.50	41.50	6.00	31.50		41.50		7.00		13.49
R032040057RA	**32.00**		32.00	40.00	5.70	32.00		40.00		6.30		14.46

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R032042060RA*	**32.00**	+ 0.00 - 0.04	32.00	42.00	6.00	32.00	+ 0.00 - 0.04	42.00	+ 0.10 - 0.00	7.00	+ 0.30 - 0.00	23.45
R034040040RA*	**34.00**		34.00	40.00	4.00	34.00		40.00		4.70		12.37
R034043060RA*	**34.00**		34.00	43.00	6.00	34.00		43.00		7.00		12.37
R034044060RA*	**34.00**		34.00	44.00	6.00	34.00		44.00		7.00		12.37
R034050120RA*	**34.00**		34.00	50.00	12.00	34.00		50.00		13.00		12.37
R035041040RA*	**35.00**		35.00	41.00	4.00	35.00		41.00		4.70		12.37
R035043050RA*	**35.00**		35.00	43.00	5.00	35.00		43.00		5.70		12.37
R035045060RA	**35.00**		35.00	45.00	6.00	35.00		45.00		7.00		18.47
R035045060RA-1*	**35.50**		35.50	45.00	6.00	35.50		45.00		7.00		13.48
R035045070RA*	**35.00**		35.00	45.00	7.00	35.00		45.00		8.00		12.07
R035045080RA*	**35.00**		35.00	45.00	8.00	35.00		45.00		9.00		12.88
R035050090RA*	**35.00**		35.00	50.00	9.00	35.00		50.00		10.00		14.05
R035050100RA*	**35.00**		35.00	50.00	10.00	35.00		50.00		11.00		15.30
R036051100RA*	**36.00**		36.00	51.00	10.00	36.00		51.00		11.00		42.25
R038047060RA*	**38.00**		38.00	47.00	6.00	38.00		47.00		7.00		12.37
R038048060RA*	**38.00**		38.00	48.00	6.00	38.00		48.00		7.00		12.37
R039048060RA*	**39.00**	+ 0.00 - 0.05	39.00	48.00	6.00	39.00	+ 0.00 - 0.05	48.00		7.00		15.81
R040048060RA	**40.00**		40.00	48.00	6.00	40.00		48.00		7.00		28.83
R040050060RA	**40.00**		40.00	50.00	6.00	40.00		50.00		7.00		18.90
R040050070RA*	**40.00**		40.00	50.00	7.00	40.00		50.00		8.00		18.23
R040055090RA	**40.00**		40.00	55.00	9.00	40.00		55.00	+ 0.12 - 0.00	10.00		21.07
R040055100RA	**40.00**		40.00	55.00	10.00	40.00		55.00		11.00		29.80
R040056100RA*	**40.00**		40.00	56.00	10.00	40.00		56.00		11.00		15.81
R040056120RA*	**40.00**		40.00	56.00	12.00	40.00		56.00		13.00		21.41
R041051060RA*	**41.00**		41.00	51.00	6.00	41.00		51.00		7.00		15.81
R042050050RA*	**42.00**		42.00	50.00	5.00	42.00		50.00		5.70		15.81
R042056100RA*	**42.00**		42.00	56.00	10.00	42.00		56.00		11.00		15.81
R043051050RA*	**43.00**		43.00	51.00	5.00	43.00		51.00		6.00		15.81
R043053060RA*	**43.00**		43.00	53.00	6.00	43.00		53.00		7.00		15.81
R045055060RA	**45.00**		45.00	55.00	6.00	45.00		55.00		7.00		22.28
R045055070RA	**45.00**		45.00	55.00	7.00	45.00		55.00		8.00		18.65
R045055080RA	**45.00**		45.00	55.00	8.00	45.00		55.00		9.00		29.99
R045056070RA*	**45.00**		45.00	56.00	7.00	45.00		56.00		8.00		15.81
R045060090RA	**45.00**		45.00	60.00	9.00	45.00		60.00		10.00		26.57
R045060100RA	**45.00**		45.00	60.00	10.00	45.00		60.00		11.00		34.87
R045061100RA*	**45.00**		45.00	61.00	10.00	45.00		61.00		11.00		15.81
R045061120RA	**45.00**		45.00	61.00	12.00	45.00		61.00		13.00		18.51
R047063120RA*	**47.00**		47.00	63.00	12.00	47.00		63.00		13.00		15.81
R048058060RA*	**48.00**		48.00	58.00	6.00	48.00		58.00		7.00		15.81
R049059060RA*	**49.00**		49.00	59.00	6.00	49.00		59.00		7.00		15.81
R050060060RA	**50.00**		50.00	60.00	6.00	50.00		60.00		7.00		24.14
R050060080RA	**50.00**		50.00	60.00	8.00	50.00		60.00		9.00		24.14
R050063100RA	**50.00**		50.00	63.00	10.00	50.00		63.00		11.00		26.73
R050065090RA	**50.00**		50.00	65.00	9.00	50.00		65.00		10.00		32.17
R050065100RA	**50.00**		50.00	65.00	10.00	50.00		65.00		11.00		27.00
R050066100RA*	**50.00**		50.00	66.00	10.00	50.00		66.00		11.00		15.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R050066120RA*	**50.00**	+ 0.00 - 0.05	50.00	66.00	12.00	50.00	+ 0.00 - 0.05	66.00	+ 0.12 - 0.00	13.00	+ 0.30 - 0.00	20.68
R050070120RA*	**50.00**		50.00	70.00	12.00	50.00		70.00		13.00		27.22
R052062060RA*	**52.00**		52.00	62.00	6.00	52.00		62.00		7.00		20.79
R053063060RA*	**53.00**		53.00	63.00	6.00	53.00		63.00		7.00		23.59
R053063080RA*	**53.00**		53.00	63.00	8.00	53.00		53.00		9.00		20.79
R055065060RA	**55.00**		55.00	65.00	6.00	55.00		65.00		7.00		29.41
R055065080RA*	**55.00**		55.00	65.00	8.00	55.00		65.00		9.00		25.10
R055068080RA	**55.00**		55.00	68.00	8.00	55.00		68.00		9.00		23.40
R055068100RA	**55.00**		55.00	68.00	10.00	55.00		68.00		11.00		33.40
R055070090RA	**55.00**		55.00	70.00	9.00	55.00		70.00		10.00		30.75
R055070100RA	**55.00**		55.00	70.00	10.00	55.00		70.00		11.00		27.29
R055071100RA*	**55.00**		55.00	71.00	10.00	55.00		71.00		11.00		25.10
R055075120RA*	**55.00**		55.00	75.00	12.00	55.00		75.00		13.00		27.43
R056066060RA	**56.00**		56.00	66.00	6.00	56.00		66.00		7.00		30.05
R056068060RA*	**56.00**		56.00	68.00	6.00	56.00		68.00		7.00		20.79
R056071090RA*	**56.00**		56.00	71.00	9.00	56.00		71.00		10.00		26.33
R056071100RA*	**56.00**		56.00	71.00	10.00	56.00		71.00		11.00		20.79
R056072100RA*	**56.00**		56.00	72.00	10.00	56.00		72.00		11.00		20.79
R056076120RA*	**56.00**		56.00	76.00	12.00	56.00		76.00		13.00		20.79
R057065050RA*	**57.00**		57.00	65.00	5.00	57.00		65.00		5.70		20.79
R058068060RA*	**58.00**		58.00	68.00	6.00	58.00		68.00		7.00		20.79
R058070065RA*	**58.00**		58.00	70.00	6.50	58.00		70.00		7.50		40.75
R060070060RA	**60.00**		60.00	70.00	6.00	60.00		70.00		7.00		31.00
R060070080RA*	**60.00**		60.00	70.00	8.00	60.00		70.00		9.00		21.51
R060071070RA*	**60.00**		60.00	71.00	7.00	60.00		71.00		8.00		21.51
R060073100RA	**60.00**		60.00	73.00	10.00	60.00		73.00		11.00		28.17
R060075090RA	**60.00**		60.00	75.00	9.00	60.00		75.00		10.00		28.17
R060075100RA	**60.00**		60.00	75.00	10.00	60.00		75.00		11.00		28.17
R060075120RA*	**60.00**		60.00	75.00	12.00	60.00		75.00		13.00		21.51
R060076100RA*	**60.00**		60.00	76.00	10.00	60.00		76.00		11.00		28.64
R060076120RA	**60.00**		60.00	76.00	12.00	60.00		76.00		13.00		31.00
R060080100RA*	**60.00**		60.00	80.00	10.00	60.00		80.00		11.00		21.51
R060080120RA	**60.00**		60.00	80.00	12.00	60.00		80.00		13.00		29.90
R061071060RA*	**61.00**		61.00	71.00	6.00	61.00		71.00		7.00		21.51
R062072060RA*	**62.00**		62.00	72.00	6.00	62.00		72.00		7.00		54.84
R063073060RA*	**63.00**		63.00	73.00	6.00	63.00		73.00		7.00		27.08
R063073080RA*	**63.00**		63.00	73.00	8.00	63.00		73.00		9.00		21.51
R063078090RA*	**63.00**		63.00	78.00	9.00	63.00		78.00		10.00		21.51
R063078100RA	**63.00**		63.00	78.00	10.00	63.00		78.00		11.00		31.74
R063079120RA*	**63.00**		63.00	79.00	12.00	63.00		79.00		13.00		21.51
R063083120RA*	**63.00**		63.00	83.00	12.00	63.00		83.00	+0.10/- 0.00	13.00		33.77
R064080120RA*	**64.00**	+ 0.00 - 0.06	64.00	80.00	12.00	64.00	+ 0.00 - 0.06	80.00	+ 0.12 - 0.00	13.00		21.51
R065075060RA	**65.00**		65.00	75.00	6.00	65.00		75.00		7.00		23.72
R065075080RA*	**65.00**		65.00	75.00	8.00	65.00		75.00		9.00		26.11
R065078100RA	**65.00**		65.00	78.00	10.00	65.00		78.00		11.00		31.28
R065080090RA	**65.00**		65.00	80.00	9.00	65.00		80.00		10.00		26.08

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R065080120RA	**65.00**	+ 0.00 - 0.06	65.00	80.00	12.00	65.00	+ 0.00 - 0.06	80.00	+0.12/-0.00	13.00	+ 0.30 - 0.00	27.77
R065085120RA*	**65.00**		65.00	85.00	12.00	65.00		85.00	+0.14/-0.00	13.00		58.03
R067077060RA*	**67.00**		67.00	77.00	6.00	67.00		77.00	+0.12/-0.00	7.00		32.80
R067082090RA*	**67.00**		67.00	82.00	9.00	67.00		82.00	+ 0.14 - 0.00	10.00		21.51
R067087150RA*	**67.00**		67.00	87.00	15.00	67.00		87.00		16.00		21.51
R070080060RA*	**70.00**		70.00	80.00	6.00	70.00		80.00	+ 0.12 - 0.00	7.00		33.60
R070080080RA*	**70.00**		70.00	80.00	8.00	70.00		80.00		9.00		25.21
R070083100RA	**70.00**		70.00	83.00	10.00	70.00		83.00	+ 0.14 - 0.00	11.00		30.75
R070085090RA	**70.00**		70.00	85.00	9.00	70.00		85.00		10.00		33.40
R070085100RA	**70.00**		70.00	85.00	10.00	70.00		85.00		11.00		34.37
R070090120RA*	**70.00**		70.00	90.00	12.00	70.00		90.00		13.00		35.61
R070090150RA*	**70.00**		70.00	90.00	15.00	70.00		90.00		16.00		35.61
R071080060RA*	**71.00**		71.00	80.00	6.00	71.00		80.00	+0.12/-0.00	7.00		21.51
R071081060RA*	**71.00**		71.00	81.00	6.00	71.00		81.00	+ 0.14 - 0.00	7.00		31.50
R071081080RA*	**71.00**		71.00	81.00	8.00	71.00		81.00		9.00		24.95
R071086090RA*	**71.00**		71.00	86.00	9.00	71.00		86.00		10.00		24.95
R071086100RA*	**71.00**		71.00	86.00	10.00	71.00		86.00		11.00		24.95
R071091120RA*	**71.00**		71.00	91.00	12.00	71.00		91.00		13.00		24.95
R071091150RA*	**71.00**		71.00	91.00	15.00	71.00		91.00		16.00		24.95
R072082060RA*	**72.00**		72.00	82.00	6.00	72.00		82.00		7.00		25.28
R072087090RA*	**72.00**		72.00	87.00	9.00	72.00		87.00		10.00		24.95
R073085055RA*	**73.00**		73.00	85.00	5.50	73.00		85.00		6.50		24.95
R073088090RA*	**73.00**		73.00	88.00	9.00	73.00		88.00		10.00		24.95
R075085060RA	**75.00**		75.00	85.00	6.00	75.00		85.00		7.00		43.50
R075085080RA*	**75.00**		75.00	85.00	8.00	75.00		85.00		9.00		24.95
R075085090RA*	**75.00**		75.00	85.00	9.00	75.00		85.00		10.00		26.78
R075088100RA	**75.00**		75.00	88.00	10.00	75.00		88.00		11.00		37.40
R075090090RA	**75.00**		75.00	90.00	9.00	75.00		90.00		10.00		36.74
R075090100RA	**75.00**		75.00	90.00	10.00	75.00		90.00		11.00		35.87
R075095120RA	**75.00**		75.00	95.00	12.00	75.00		95.00		13.00		40.42
R075095150RA*	**75.00**		75.00	95.00	15.00	75.00		95.00		16.00		26.78
R076088055RA*	**76.00**		76.00	88.00	5.50	76.00		88.00		6.50		51.13
R080088080RA*	**80.00**	+ 0.00 - 0.09	80.00	88.00	8.00	80.00	+ 0.00 - 0.09	88.00		80.00		45.80
R080090060RA	**80.00**		80.00	90.00	6.00	80.00		90.00		7.00		34.37
R080090080RA*	**80.00**		80.00	90.00	8.00	80.00		90.00		9.00		36.89
R080093090RA*	**80.00**		80.00	93.00	9.00	80.00		93.00		10.00		36.89
R080093100RA	**80.00**		80.00	93.00	10.00	80.00		93.00		11.00		40.94
R080095090RA	**80.00**		80.00	95.00	9.00	80.00		95.00		10.00		36.33
R080095100RA	**80.00**		80.00	95.00	10.00	80.00		95.00		11.00		42.19
R080095100RA/30K	**80.00**		80.00	95.00	10.00	80.00		95.00		11.00		129.84
R080095120RA*	**80.00**		80.00	95.00	12.00	80.00		95.00		13.00		27.85
R080100120RA*	**80.00**		80.00	100.00	12.00	80.00		100.00		13.00		44.45
R080100150RA*	**80.00**		80.00	100.00	15.00	80.00		100.00		16.00		27.85
R085100090RA	**85.00**		85.00	100.00	9.00	85.00		100.00		10.00		44.45
R085100100RA	**85.00**		85.00	100.00	10.00	85.00		100.00		11.00		44.62
R085105150RA*	**85.00**		85.00	105.00	15.00	85.00		105.00		16.00		27.85

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Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R086096060RA*	**86.00**	+ 0.00 - 0.09	86.00	96.00	6.00	86.00	+ 0.00 - 0.09	96.00	+ 0.14 - 0.00	7.00	+ 0.30 - 0.00	34.37
R090100060RA	**90.00**		90.00	100.00	6.00	90.00		100.00		7.00		34.37
R090102087RA*	**90.00**		90.00	102.00	8.70	90.00		102.00		9.70		41.27
R090105090RA	**90.00**		90.00	105.00	9.00	90.00		105.00		10.00		46.81
R090105100RA	**90.00**		90.00	105.00	10.00	90.00		105.00		11.00		47.31
R090105100RA/30K	**90.00**		90.00	105.00	10.00	90.00		105.00		11.00		192.98
R090105100RA/30K-SST*	**90.00**		90.00	105.00	10.00	90.00		105.00		11.00		169.14
R090110090RA*	**90.00**		90.00	110.00	9.00	90.00		110.00		10.00		35.62
R090110114RA*	**90.00**		90.00	110.00	11.40	90.00		110.00		12.40		52.58
R090110120RA	**90.00**		90.00	110.00	12.00	90.00		110.00		13.00		41.65
R090110125RA/DS104R*	**90.00**		90.00	110.00	12.50	90.00		110.00		13.50		123.62
R090110130RA*	**90.00**		90.00	110.00	13.00	90.00		110.00		14.00		32.85
R090110150RA*	**90.00**		90.00	110.00	15.00	90.00		110.00		16.00		32.85
R092107090RA*	**92.00**		92.00	107.00	9.00	92.00		107.00		10.00		70.35
R093108090RA*	**93.00**		93.00	108.00	9.00	93.00		108.00		10.00		70.35
R095105120RA*	**95.00**		95.00	105.00	12.00	95.00		105.00		13.00		34.76
R095110090RA	**95.00**		95.00	110.00	9.00	95.00		110.00		10.00		49.49
R095110100RA	**95.00**		95.00	110.00	10.00	95.00		110.00		11.00		49.49
R095115120RA	**95.00**		95.00	115.00	12.00	95.00		115.00		13.00		49.95
R095115150RA*	**95.00**		95.00	115.00	15.00	95.00		115.00		16.00		34.76
R097112090RA*	**97.00**		97.00	112.00	9.00	97.00		112.00		10.00		34.76
R098112085RA*	**98.00**		98.00	112.00	8.50	98.00		112.00		9.50		34.76
R098113090RA*	**98.00**		98.00	113.00	9.00	98.00		113.00		10.00		34.76
R100110060RA*	**100.00**		100.00	110.00	6.00	100.00		110.00		7.00		46.80
R100115090RA	**100.00**		100.00	115.00	9.00	100.00		115.00		10.00		50.70
R100115100RA	**100.00**		100.00	115.00	10.00	100.00		115.00		11.00		37.18
R100115100RA/30K	**100.00**		100.00	115.00	10.00	100.00		115.00		11.00		122.04
R100115120RA	**100.00**		100.00	115.00	12.00	100.00		115.00		13.00		81.65
R100120120RA	**100.00**		100.00	120.00	12.00	100.00		120.00		13.00		54.12
R100120130RA*	**100.00**		100.00	120.00	13.00	100.00		120.00		14.00		71.72
R100120150RA*	**100.00**		100.00	120.00	15.00	100.00		120.00		16.00		40.72
R102117100RA*	**102.00**		102.00	117.00	10.00	102.00		117.00		11.00		34.76
R105120090RA	**105.00**	+ 0.00 - 0.13	105.00	120.00	9.00	105.00	+ 0.00 - 0.13	120.00		10.00		60.75
R105120100RA	**105.00**		105.00	120.00	10.00	105.00		120.00		11.00		92.72
R105125090RA*	**105.00**		105.00	125.00	9.00	105.00		125.00		10.00		0.00
R105125120RA	**105.00**		105.00	125.00	12.00	105.00		125.00		13.00		67.27
R105125120RA/30K	**105.00**		105.00	125.00	12.00	105.00		125.00		13.00		149.76
R105125150RA	**105.00**		105.00	125.00	15.00	105.00		125.00	+ 0.16 - 0.00	16.00		57.80
R105125160RA*	**105.00**		105.00	125.00	16.00	105.00		125.00		17.00		40.50
R106120085RA*	**106.00**		106.00	120.00	8.50	106.00		120.00	+0.14/-0.00	9.50		40.50
R106121090RA*	**106.00**		106.00	121.00	9.00	106.00		121.00	+ 0.16 - 0.00	10.00		40.50
R106121100RA*	**106.00**		106.00	121.00	10.00	106.00		121.00		11.00		40.50
R106126150RA*	**106.00**		106.00	126.00	15.00	106.00		126.00		16.00		40.50
R106126160RA*	**106.00**		106.00	126.00	16.00	106.00		126.00		17.00		40.50
R107122100RA*	**107.00**		107.00	122.00	10.00	107.00		122.00		11.00		79.00
R110120065RA*	**110.00**		110.00	120.00	6.50	110.00		120.00	+0.14/-0.00	7.50		42.40

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RA series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R110120070RA*	**110.00**	+ 0.00 - 0.13	110.00	120.00	7.00	110.00	+ 0.00 - 0.13	120.00	+0.14/- 0.00	8.00	+ 0.30 - 0.00	42.40
R110125090RA	**110.00**		110.00	125.00	9.00	110.00		125.00	+ 0.16 - 0.00	10.00		68.82
R110125100RA	**110.00**		110.00	125.00	10.00	110.00		125.00		11.00		70.04
R110130100RA	**110.00**		110.00	130.00	10.00	110.00		130.00		11.00		71.35
R110130100RA/30K	**110.00**		110.00	130.00	10.00	110.00		130.00		11.00		215.03
R110130100RA/U641	**110.00**		110.00	130.00	10.00	110.00		130.00		11.00		75.80
R110130114RA/AE/30K	**110.00**		110.00	130.00	11.40	110.00		130.00		12.50		273.80
R110130120RA	**110.00**		110.00	130.00	12.00	110.00		130.00		13.00		75.40
R110130130RA*	**110.00**		110.00	130.00	13.00	110.00		130.00		14.00		75.41
R110130130RA/30K	**110.00**		110.00	130.00	13.00	110.00		130.00		14.00		215.03
R110130150RA*	**110.00**		110.00	130.00	15.00	110.00		130.00		16.00		85.24
R110130160RA*	**110.00**		110.00	130.00	16.00	110.00		130.00		17.00		53.46
R111121060RA*	**111.00**		111.00	121.00	6.00	111.00		121.00		7.00		49.06
R111126090RA*	**111.00**		111.00	126.00	9.00	111.00		126.00		10.00		49.06
R112125090RA*	**112.00**		112.00	125.00	9.00	112.00		125.00		10.00		59.84
R112127090RA*	**112.00**		112.00	127.00	9.00	112.00		127.00		10.00		49.06
R112127100RA*	**112.00**		112.00	127.00	10.00	112.00		127.00		11.00		119.24
R112132150RA*	**112.00**		112.00	132.00	15.00	112.00		132.00		16.00		70.11
R112132160RA*	**112.00**		112.00	132.00	16.00	112.00		132.00		17.00		57.47
R112135150RA*	**112.00**		112.00	135.00	15.00	112.00		135.00		16.00		59.84
R115130090RA	**115.00**		115.00	130.00	9.00	115.00		130.00		10.00		75.25
R115130100RA	**115.00**		115.00	130.00	10.00	115.00		130.00		11.00		124.74
R115135120RA	**115.00**		115.00	135.00	12.00	115.00		135.00		13.00		73.18
R115135160RA*	**115.00**		115.00	135.00	16.00	115.00		135.00		17.00		49.06
R116131090RA*	**116.00**		116.00	131.00	9.00	116.00		131.00		10.00		49.06
R117133085RA*	**117.00**		117.00	133.00	8.50	117.00		133.00		9.50		49.06
R118128060RA*	**118.00**		118.00	128.00	6.00	118.00		128.00		7.00		49.06
R118133090RA*	**118.00**		118.00	133.00	9.00	118.00		133.00		10.00		73.58
R118133100RA*	**118.00**		118.00	133.00	10.00	118.00		133.00		11.00		49.06
R118138150RA*	**118.00**		118.00	138.00	15.00	118.00		138.00		16.00		49.06
R118138160RA*	**118.00**		118.00	138.00	16.00	118.00		138.00		17.00		49.06
R120135090RA	**120.00**		120.00	135.00	9.00	120.00		135.00		10.00		86.21
R120135100RA	**120.00**		120.00	135.00	10.00	120.00		135.00		11.00		75.07
R120140100RA	**120.00**		120.00	140.00	10.00	120.00		140.00		11.00		84.64
R120140120RA	**120.00**		120.00	140.00	12.00	120.00		140.00		13.00		89.15
R120140130RA*	**120.00**		120.00	140.00	13.00	120.00		140.00		14.00		89.25
R120140150RA*	**120.00**		120.00	140.00	15.00	120.00		140.00		16.00		72.41
R120140160RA*	**120.00**		120.00	140.00	16.00	120.00		140.00		17.00		64.07
R125135060RA*	**125.00**		125.00	135.00	6.00	125.00		135.00		7.00		49.06
R125140100RA*	**125.00**		125.00	140.00	10.00	125.00		140.00		11.00		57.47
R125145120RA	**125.00**		125.00	145.00	12.00	125.00		145.00		13.00		83.42
R125145160RA*	**125.00**		125.00	145.00	16.00	125.00		145.00		17.00		51.71
R125150190RA*	**125.00**		125.00	150.00	19.00	125.00		150.00		20.00		51.71
R125150200RA*	**125.00**		125.00	150.00	20.00	125.00		150.00		21.00		51.71
R130140060RA*	**130.00**		130.00	140.00	6.00	130.00		140.00		7.00		64.02
R130145090RA	**130.00**		130.00	145.00	9.00	130.00		145.00		10.00		72.26

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Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R130145100RA	**130.00**	+ 0.00 - 0.13	130.00	145.00	10.00	130.00	+ 0.00 - 0.13	145.00	+ 0.16 - 0.00	11.00	+ 0.30 - 0.00	156.01
R130150090RA*	**130.00**		130.00	150.00	9.00	130.00		150.00		10.00		79.00
R130150120RA	**130.00**		130.00	150.00	12.00	130.00		150.00		13.00		70.67
R130150120RA/30K	**130.00**		130.00	150.00	12.00	130.00		150.00		13.00		183.28
R130150130RA/30K	**130.00**		130.00	150.00	13.00	130.00		150.00		14.00		152.95
R130150160RA	**130.00**		130.00	150.00	16.00	130.00		150.00		17.00		103.77
R130155195RA*	**130.00**		130.00	155.00	19.50	130.00		155.00		20.50		133.36
R132157200RA*	**132.00**		132.00	157.00	20.00	132.00		157.00		21.00		64.02
R134148085RA*	**134.00**		134.00	148.00	8.50	134.00		148.00		9.50		64.02
R135150090RA*	**135.00**		135.00	150.00	9.00	135.00		150.00		10.00		66.57
R135150100RA*	**135.00**		135.00	150.00	10.00	135.00		150.00		11.00		66.57
R135150120RA*	**135.00**		135.00	150.00	12.00	135.00		150.00		13.00		66.57
R135150130RA*	**135.00**		135.00	150.00	13.00	135.00		150.00		14.00		64.02
R135155120RA*	**135.00**		135.00	155.00	12.00	135.00		155.00		13.00		75.50
R135155150RA*	**135.00**		135.00	155.00	15.00	135.00		155.00		16.00		64.02
R135155160RA*	**135.00**		135.00	155.00	16.00	135.00		155.00		17.00		64.02
R135160190RA*	**135.00**		135.00	160.00	19.00	135.00		160.00		20.00		64.02
R136150085RA*	**136.00**		136.00	150.00	8.50	136.00		150.00		9.50		76.60
R140150060RA*	**140.00**		140.00	150.00	6.00	140.00		150.00		7.00		79.83
R140150070RA*	**140.00**		140.00	150.00	7.00	140.00		150.00		8.00		79.91
R140155090RA	**140.00**		140.00	155.00	9.00	140.00		155.00		10.00		57.28
R140155100RA	**140.00**		140.00	155.00	10.00	140.00		155.00		11.00		85.88
R140155100RA/30K*	**140.00**		140.00	155.00	10.00	140.00		155.00		11.00		131.93
R140160090RA*	**140.00**		140.00	160.00	9.00	140.00		160.00		10.00		79.83
R140160120RA	**140.00**		140.00	160.00	12.00	140.00		160.00		13.00		104.54
R140160130RA*	**140.00**		140.00	160.00	13.00	140.00		160.00		14.00		93.52
R140160160RA*	**140.00**		140.00	160.00	16.00	140.00		160.00		17.00		93.52
R140165120RA*	**140.00**		140.00	165.00	12.00	140.00		165.00		13.00		107.44
R140165190RA*	**140.00**		140.00	165.00	19.00	140.00		165.00		20.00		79.83
R140165200RA*	**140.00**		140.00	165.00	20.00	140.00		165.00		21.00		79.83
R141156085RA*	**141.00**		141.00	156.00	8.50	141.00		156.00		9.50		85.23
R143157090RA*	**143.00**		143.00	157.00	9.00	143.00		157.00		10.00		131.37
R143158090RA*	**143.00**		143.00	158.00	9.00	143.00		158.00		10.00		100.45
R145160090RA*	**145.00**		145.00	160.00	9.00	145.00		160.00		10.00		139.38
R145160100RA/30K*	**145.00**		145.00	160.00	10.00	145.00		160.00		11.00		143.12
R145170190RA*	**145.00**		145.00	170.00	19.00	145.00		170.00		20.00		100.45
R145170200RA*	**145.00**		145.00	170.00	20.00	145.00		170.00		21.00		100.45
R150165090RA*	**150.00**		150.00	165.00	9.00	150.00		165.00		10.00		172.04
R150165100RA	**150.00**		150.00	165.00	10.00	150.00		165.00		11.00		145.66
R150165100RA/30K	**150.00**		150.00	165.00	10.00	150.00		165.00		11.00		260.60
R150170120RA	**150.00**		150.00	170.00	12.00	150.00		170.00		13.00		171.31
R150170160RA*	**150.00**		150.00	170.00	16.00	150.00		170.00		17.00		122.17
R150175160RA*	**150.00**		150.00	175.00	16.00	150.00		175.00		17.00		120.99
R150175200RA*	**150.00**		150.00	175.00	20.00	150.00		175.00		21.00		116.20
R155165060RA*	**155.00**		155.00	165.00	6.00	155.00		165.00		7.00		103.27
R155170090RA*	**155.00**		155.00	170.00	9.00	155.00		170.00		10.00		159.57

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R155175090RA*	**155.00**	+ 0.00 - 0.13	155.00	175.00	9.00	155.00	+ 0.00 - 0.13	175.00	+ 0.16 - 0.00	10.00	+ 0.30 - 0.00	159.25
R155180190RA*	**155.00**		155.00	180.00	19.00	155.00		180.00		20.00		222.50
R157175100RA*	**157.00**		157.00	175.00	10.00	157.00		175.00		11.00		159.25
R160175090RA*	**160.00**		160.00	175.00	9.00	160.00		175.00		10.00		153.88
R160175100RA*	**160.00**		160.00	175.00	10.00	160.00		175.00		11.00		159.25
R160180120RA	**160.00**		160.00	180.00	12.00	160.00		180.00		13.00		195.69
R160180120RA/30K	**160.00**		160.00	180.00	12.00	160.00		180.00		13.00		316.56
R160180160RA*	**160.00**		160.00	180.00	16.00	160.00		180.00		17.00		115.11
R160185160RA	**160.00**		160.00	185.00	16.00	160.00		185.00	+ 0.18 - 0.00	17.00		129.66
R160185160RA/30K	**160.00**		160.00	185.00	16.00	160.00		185.00		17.00		372.45
R160185182RA*	**160.00**		160.00	185.00	18.20	160.00		185.00		20.00		140.28
R160185190RA*	**160.00**		160.00	185.00	19.00	160.00		185.00		20.00		180.61
R160185200RA*	**160.00**		160.00	185.00	20.00	160.00		185.00		21.00		180.61
R165180090RA*	**165.00**		165.00	180.00	9.00	165.00		180.00		10.00		166.03
R165185120RA/30K	**165.00**		165.00	185.00	12.00	165.00		185.00		13.00		210.87
R170180060RA*	**170.00**		170.00	180.00	6.00	170.00		180.00		7.00		190.49
R170185090RA*	**170.00**		170.00	185.00	9.00	170.00		185.00		10.00		165.20
R170185100RA*	**170.00**		170.00	185.00	10.00	170.00		185.00		11.00		182.57
R170190120RA*	**170.00**		170.00	190.00	12.00	170.00		190.00		13.00		170.44
R170190120RA/30K	**170.00**		170.00	190.00	12.00	170.00		190.00		13.00		338.45
R170190160RA	**170.00**		170.00	190.00	16.00	170.00		190.00		17.00		182.57
R170195090RA*	**170.00**		170.00	195.00	9.00	170.00		195.00		10.00		182.57
R170195155RA*	**170.00**		170.00	195.00	15.50	170.00		195.00		16.50		394.73
R170195160RA	**170.00**		170.00	195.00	16.00	170.00		195.00		17.00		259.82
R170195160RA/30K	**170.00**		170.00	195.00	16.00	170.00		195.00		17.00		398.93
R170195200RA*	**170.00**		170.00	195.00	20.00	170.00		195.00		21.00		190.49
R170200160RA/30K*	**170.00**		170.00	200.00	16.00	170.00		200.00		17.00		293.08
R175190090RA*	**175.00**		175.00	190.00	9.00	175.00		190.00		10.00		181.23
R175200120RA*	**175.00**		175.00	200.00	12.00	175.00		200.00		13.00		189.06
R175200190RA*	**175.00**		175.00	200.00	19.00	175.00		200.00		20.00		182.57
R180200120RA*	**180.00**		180.00	200.00	12.00	180.00		200.00		13.00		198.17
R180200160RA*	**180.00**		180.00	200.00	16.00	180.00		200.00		17.00		189.93
R180205160RA	**180.00**		180.00	205.00	16.00	180.00		205.00		17.00		214.24
R180205160RA/30K*	**180.00**		180.00	205.00	16.00	180.00		205.00		17.00		220.00
R180205190RA*	**180.00**		180.00	205.00	19.00	180.00		205.00		20.00		190.49
R180205200RA*	**180.00**		180.00	205.00	20.00	180.00		205.00		21.00		190.49
R185210150RA*	**180.00**		185.00	210.00	15.00	180.00		210.00		16.00		174.20
R190210120RA*	**190.00**		190.00	210.00	12.00	190.00		210.00		13.00		208.33
R190210150RA*	**190.00**		190.00	210.00	15.00	190.00		210.00		16.00		190.49
R190210160RA*	**190.00**		190.00	210.00	16.00	190.00		210.00		17.00		190.49
R190215160RA*	**190.00**		190.00	215.00	16.00	190.00		215.00		17.00		190.49
R190215200RA*	**190.00**		190.00	215.00	20.00	190.00		215.00		21.00		190.49
R200220120RA*	**200.00**		200.00	220.00	12.00	200.00		220.00		13.00		224.80
R200220150RA/30K	**200.00**		200.00	220.00	15.00	200.00		220.00		16.00		531.63
R200220160RA*	**200.00**		200.00	220.00	16.00	200.00		220.00		17.00		208.95
R200225150RS/30K	**200.00**		200.00	225.00	15.00	200.00		225.00		16.00		425.30

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R200225160RA/30K	**200.00**	+ 0.00 - 0.13	200.00	225.00	16.00	200.00	+ 0.00 - 0.13	225.00	+ 0.18 - 0.00	17.00	+ 0.30 - 0.00	246.03
R200225160RA/S	**200.00**		200.00	225.00	16.00	200.00		225.00		17.00		595.36
R200225190RA*	**200.00**		200.00	225.00	19.00	200.00		225.00		20.00		233.64
R200225200RA*	**200.00**		200.00	225.00	20.00	200.00		225.00		21.00		233.64
R210220065RA*	**210.00**		210.00	220.00	6.50	210.00		220.00		7.50		208.95
R210235150RA*	**210.00**		210.00	235.00	15.00	210.00		235.00		16.00		336.21
R210235150RA/30K	**210.00**		210.00	235.00	15.00	210.00		235.00		16.00		482.91
R210235160RA/30K	**210.00**		210.00	235.00	16.00	210.00		235.00		17.00		548.30
R210235190RA*	**210.00**		210.00	235.00	19.00	210.00		235.00		20.00		208.95
R210235200RA*	**210.00**		210.00	235.00	20.00	210.00		235.00		21.00		208.95
R220240120RA*	**220.00**		220.00	240.00	12.00	220.00		240.00		13.00		269.59
R220240160RA*	**220.00**		220.00	240.00	16.00	220.00		240.00		17.00		208.95
R220240190RA*	**220.00**		220.00	240.00	19.00	220.00		240.00		20.00		299.60
R220240200RA*	**220.00**		220.00	240.00	20.00	220.00		240.00		21.00		345.20
R220245150RA*	**220.00**		220.00	245.00	15.00	220.00		245.00		16.00		418.75
R220245160RA	**220.00**		220.00	245.00	16.00	220.00		245.00		17.00		271.20
R220245190RA*	**220.00**		220.00	245.00	19.00	220.00		245.00		20.00		324.80
R220245200RA*	**220.00**		220.00	245.00	20.00	220.00		245.00		21.00		356.45
R225245120RA*	**225.00**		225.00	245.00	12.00	225.00		245.00		13.00		285.34
R225245160RA*	**225.00**		225.00	245.00	16.00	225.00		245.00		17.00		285.34
R225250160RA*	**225.00**		225.00	250.00	16.00	225.00		250.00		17.00		285.34
R225250190RA*	**225.00**		225.00	250.00	19.00	225.00		250.00		20.00		285.34
R225250200RA*	**225.00**		225.00	250.00	20.00	225.00		250.00	+0.21/-0.00	21.00		285.34
R230250120RA*	**230.00**		230.00	250.00	12.00	230.00		250.00	+ 0.18 - 0.00	13.00		261.87
R230250160RA*	**230.00**		230.00	250.00	16.00	230.00		250.00		17.00		285.34
R230255150RA*	**230.00**		230.00	255.00	15.00	230.00		255.00	+ 0.21 - 0.00	16.00		428.74
R230255160RA*	**230.00**		230.00	255.00	16.00	230.00		255.00		17.00		285.34
R230255160RA/30K	**230.00**		230.00	255.00	16.00	230.00		255.00		17.00		399.76
R230255190RA*	**230.00**		230.00	255.00	19.00	230.00		255.00		20.00		315.88
R230255200RA*	**230.00**		230.00	255.00	20.00	230.00		255.00		21.00		285.34
R230260190RA*	**230.00**		230.00	260.00	19.00	230.00		260.00		20.00		576.58
R230260190RA/30K*	**230.00**		230.00	260.00	19.00	230.00		260.00		20.00		331.43
R240252120RA*	**240.00**		240.00	252.00	12.00	240.00		252.00		13.00		787.06
R240260120RA*	**240.00**		240.00	260.00	12.00	240.00		260.00		13.00		302.10
R240260160RA*	**240.00**		240.00	260.00	16.00	240.00		260.00		17.00		285.34
R240265160RA*	**240.00**		240.00	265.00	16.00	240.00		265.00		17.00		285.34
R240265190RA*	**240.00**		240.00	265.00	19.00	240.00		265.00		20.00		285.34
R240265200RA*	**240.00**		240.00	265.00	20.00	240.00		265.00		21.00		285.34
R240270190RA/30K*	**240.00**		240.00	270.00	19.00	240.00		270.00		20.00		797.64
R250270120RA*	**250.00**		250.00	270.00	12.00	250.00		270.00		13.00		315.68
R250270160RA*	**250.00**		250.00	270.00	16.00	250.00		270.00		17.00		341.33
R250270160RA-1*	**250.00**		250.00	270.00	16.00	250.00		270.00		17.00		300.94
R250275160RA*	**250.00**		250.00	275.00	16.00	250.00		275.00		17.00		285.34
R250275190RA*	**250.00**		250.00	275.00	19.00	250.00		275.00		20.00		285.34
R250275200RA*	**250.00**		250.00	275.00	20.00	250.00		275.00		21.00		285.34
R250280190RA	**250.00**		250.00	280.00	19.00	250.00		280.00		20.00		762.10

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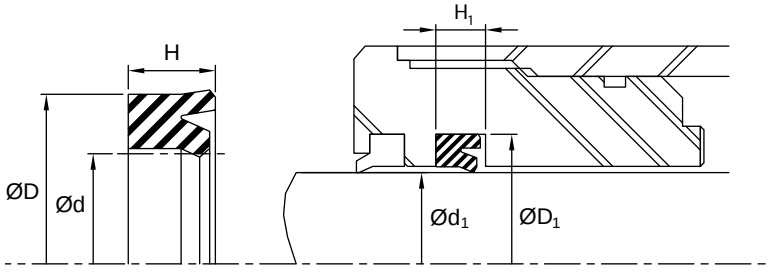
RA series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R260285190RA*	**260.00**	+ 0.00 - 0.13	260.00	285.00	19.00	260.00	+ 0.00 - 0.13	285.00	+ 0.21 - 0.00	20.00	+ 0.30 - 0.00	333.38
R260290190RA/30K	**260.00**		260.00	290.00	19.00	260.00		290.00		20.00		380.62
R270282120RA*	**270.00**		270.00	282.00	12.00	270.00		282.00		13.00		806.10
R280310190RA*	**280.00**		280.00	310.00	19.00	280.00		310.00		20.00		915.68
R280310190RA/30K	**280.00**		280.00	310.00	19.00	280.00		310.00		20.00		428.83
R280310190RA/AE/30K	**280.00**		280.00	310.00	19.00	280.00		310.00		20.00		749.44
R290310160RA-1*	**290.00**		290.00	310.00	16.00	290.00		310.00		17.00		524.80
R300320120RA*	**300.00**		300.00	320.00	12.00	300.00		320.00		13.00		379.05
R300330190RA/30K	**300.00**		300.00	330.00	19.00	300.00		330.00		20.00		724.34
R300330220RA*	**300.00**		300.00	330.00	22.00	300.00		330.00		23.00		377.26
R355385220RA*	**355.00**		355.00	385.00	22.00	355.00		385.00		23.00		598.61
R400430220RA*	**400.00**		400.00	430.00	22.00	400.00		430.00		23.00		746.59

RA/N - Rod seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile	-40°F to +212°F (-40°C to +100°C)	≤2300 psi (≤160 bar)	< 1.6 ft/s (0.5 m/s)



Similar in design to the standard **RA-styles**, the **RA/N-style** is manufactured out of a fully elastomeric material suitable for pneumatic or low-pressure hydraulic applications only.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R002004017RA/N*	**2.00**	+ 0.00 - 0.04	2.00	4.50	1.70	2.00	+ 0.00 - 0.04	4.50	+ 0.09 - 0.00	2.20	+ 0.20 - 0.00	3.45
R002005017RA/N*	**2.50**		2.50	5.00	1.70	2.50		5.00		2.20		3.66
R002007035RA/N*	**2.00**		2.00	7.00	3.50	2.00		7.00		4.00		3.45

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Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R003007030RA/N*	**3.00**	+ 0.00 - 0.04	3.00	7.00	3.00	3.00	+ 0.00 - 0.04	7.00	+ 0.09 - 0.00	3.50	+ 0.20 - 0.00	3.66
R004008030RA/N*	**4.00**		4.00	8.00	3.00	4.00		8.00		3.50		3.88
R004009035RA/N*	**4.00**		4.00	9.00	3.50	4.00		9.00		4.00		3.88
R004010042RA/N*	**4.00**		4.00	10.00	4.20	4.00		10.00		4.70		3.88
R004012045RA/N*	**4.00**		4.00	12.00	4.50	4.00		12.00		5.00		4.09
R004012055RA/N*	**4.00**		4.00	12.00	5.50	4.00		12.00		6.00		4.31
R005009025RA/N*	**5.00**		5.00	9.00	2.50	5.00		9.00		3.00		4.53
R005010040RA/N*	**5.00**		5.00	10.00	4.00	5.00		10.00		4.50		4.74
R005012045RA/N	**5.00**		5.00	12.00	4.50	5.00		12.00	+0.11/- 0.00	5.00		16.06
R006010030RA/N*	**6.00**		6.00	10.00	3.00	6.00		10.00	+ 0.09 - 0.00	3.50		4.96
R006011032RA/N	**6.00**		6.00	11.50	3.20	6.00		11.50		4.20		15.95
R006012040RA/N*	**6.00**		6.00	12.00	4.00	6.00		12.00	+ 0.11 - 0.00	4.50		4.96
R006012042RA/N	**6.00**		6.00	12.00	4.20	6.00		12.00		4.70		4.96
R006013055RA/N*	**6.00**		6.00	13.00	5.50	6.00		13.00		6.00		4.96
R006016050RA/N*	**6.00**		6.00	16.00	5.00	6.00		16.00		5.50		4.98
R008014040RA/N*	**8.00**		8.00	14.00	4.00	8.00		14.00		4.50		5.17
R008014045RA/N*	**8.00**		8.00	14.50	4.50	8.00		14.50		5.00		5.39
R008016055RA/N*	**8.00**		8.00	16.00	5.50	8.00		16.00		6.00		5.39
R008016060RA/N*	**8.00**		8.00	16.00	6.00	8.00		16.00		6.50		5.60
R008018080RA/N*	**8.00**		8.00	18.00	8.00	8.00		18.00		8.50		5.82
R010013023RA/N	**10.00**		10.00	13.60	2.30	10.00		13.60		2.70		6.25
R010015035RA/N*	**10.00**		10.00	15.00	3.50	10.00		15.00		4.00		6.25
R010016045RA/N	**10.00**		10.00	16.00	4.50	10.00		16.00		5.00		6.03
R010016060RA/N*	**10.00**		10.00	16.00	6.00	10.00		16.00		6.50		6.25
R010018055RA/N*	**10.00**		10.00	18.00	5.50	10.00		18.00		6.00		6.25
R011018045RA/N*	**11.00**		11.00	18.00	4.50	11.00		18.00		5.00		6.25
R012018045RA/N	**12.00**		12.00	18.00	4.50	12.00		18.00		5.00		6.25
R012019045RA/N*	**12.00**		12.00	19.00	4.50	12.00		19.00	+ 0.13 - 0.00	5.00		6.47
R012020055RA/N	**12.00**		12.00	20.00	5.50	12.00		20.00		6.00		6.25
R012020065RA/N*	**12.00**		12.00	20.00	6.50	12.00		20.00		7.00		0.00
R012022075RA/N*	**12.00**		12.00	22.00	7.50	12.00		22.00		8.00		6.25
R014022050RA/N*	**14.00**		14.00	22.00	5.00	14.00		22.00		5.50		7.33
R014022055RA/N	**14.00**		14.00	22.00	5.50	14.00		22.00		6.00		6.68
R014025080RA/N*	**14.00**		14.00	25.00	8.00	14.00		25.00		8.50		7.33
R015022050RA/N*	**15.00**		15.00	22.00	5.00	15.00		22.00		5.50		14.09
R015023060RA/N*	**15.00**		15.00	23.00	6.00	15.00		23.00		6.50		7.33
R016020050RA/N*	**16.00**		16.00	20.50	5.00	16.00		20.50		5.50		7.33
R016022040RA/N	**16.00**		16.00	22.00	4.00	16.00		22.00		4.50		7.33
R016022045RA/N*	**16.00**		16.00	22.50	4.50	16.00		22.50		5.00		7.33
R016022055RA/N*	**16.00**		16.00	22.00	5.50	16.00		22.00		6.00		7.33
R016023055RA/N	**16.00**		16.00	23.00	5.50	16.00		23.00		6.00		7.33
R016023055RA/N-1*	**16.00**		16.00	23.50	5.50	16.00		23.50		6.00		0.00
R016024055RA/N	**16.00**		16.00	24.00	5.50	16.00		24.00		6.00		7.33
R016026070RA/N*	**16.00**		16.00	26.00	7.00	16.00		26.00		7.50		7.33
R016026075RA/N*	**16.00**		16.00	26.00	7.50	16.00		26.00		8.00		7.76
R017025055RA/N	**17.00**		17.00	25.00	5.50	17.00		25.00		6.00		7.76

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA/N series - NBR 85A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R018024040RA/N*	**18.00**	+ 0.00 - 0.04	18.00	24.00	4.00	18.00	+ 0.00 - 0.04	24.00	+ 0.13 - 0.00	4.50	+ 0.20 - 0.00	7.97
R018025045RA/N*	**18.00**		18.00	25.00	4.50	18.00		25.00		5.00		7.97
R018025055RA/N*	**18.00**		18.00	25.00	5.50	18.00		25.00		6.00		7.97
R018025055RA/N-1*	**18.50**		18.50	25.50	5.50	18.50		25.50		6.00		7.97
R018026055RA/N	**18.00**		18.00	26.00	5.50	18.00		26.00		6.00		7.97
R020026048RA/N*	**20.00**		20.00	26.00	4.80	20.00		26.00		5.30		8.62
R020028055RA/N	**20.00**		20.00	28.00	5.50	20.00		28.00		6.00		7.97
R020030060RA/N*	**20.00**		20.00	30.00	6.00	20.00		30.00		6.50		7.97
R020030070RA/N*	**20.00**		20.00	30.00	7.00	20.00		30.00		7.50		0.00
R020030075RA/N*	**20.00**		20.00	30.00	7.50	20.00		30.00		8.00		7.97
R020030095RA/N*	**20.00**		20.00	30.00	9.50	20.00		30.00		10.00		8.11
R020030100RA/N*	**20.00**		20.00	30.00	10.00	20.00		30.00		11.00		8.19
R020032060RA/N*	**20.00**		20.00	32.00	6.00	20.00		32.00	+ 0.16 - 0.00	6.50		8.40
R020032070RA/N*	**20.00**		20.00	32.00	7.00	20.00		32.00		7.50		8.40
R020032075RA/N*	**20.00**		20.00	32.00	7.50	20.00		32.00		8.00		8.62
R022029055RA/N	**22.00**		22.00	29.00	5.50	22.00		29.00	+ 0.13 - 0.00	6.00		8.62
R022030055RA/N	**22.00**		22.00	30.00	5.50	22.00		30.00		6.00		8.62
R022030070RA/N*	**22.00**		22.00	30.00	7.00	22.00		30.00		7.50		8.62
R022032060RA/N*	**22.00**		22.00	32.00	6.00	22.00		32.00	+ 0.16 - 0.00	6.50		8.62
R022032070RA/N*	**22.00**		22.00	32.00	7.00	22.00		32.00		7.50		8.62
R022032080RA/N*	**22.00**		22.00	32.00	8.00	22.00		32.00		8.50		8.62
R023031055RA/N*	**23.00**		23.00	31.00	5.50	23.00		31.00		6.00		8.62
R024032055RA/N*	**24.00**		24.00	32.00	5.50	24.00		32.00		6.00		8.62
R025032055RA/N*	**25.00**		25.00	32.00	5.50	25.00		32.00		6.00		10.34
R025032060RA/N*	**25.00**		25.00	32.00	6.00	25.00		32.00		6.50		8.62
R025033055RA/N	**25.00**		25.00	33.00	5.50	25.00		33.00		6.00		8.62
R025033100RA/N*	**25.00**		25.00	33.00	10.00	25.00		33.00		11.00		8.62
R025035060RA/N*	**25.00**		25.00	35.00	6.00	25.00		35.00		6.50		8.62
R025035070RA/N	**25.00**		25.00	35.00	7.00	25.00		35.00		7.50		8.62
R025035075RA/N*	**25.00**		25.00	35.00	7.50	25.00		35.00		8.00		8.62
R025035080RA/N*	**25.00**		25.00	35.00	8.00	25.00		35.00		8.50		9.27
R025035095RA/N*	**25.00**		25.00	35.00	9.50	25.00		35.00		10.00		10.00
R025035100RA/N*	**25.00**		25.00	35.00	10.00	25.00		35.00		11.00		10.13
R025037060RA/N*	**25.00**		25.00	37.00	6.00	25.00		37.00		6.50		10.34
R025040100RA/N*	**25.00**		25.00	40.00	10.00	25.00		40.00		11.00		10.34
R026036070RA/N*	**26.00**		26.00	36.00	7.00	26.00		36.00		7.50		10.56
R028036055RA/N	**28.00**		28.00	36.00	5.50	28.00		36.00		6.00		10.78
R028036057RA/N*	**28.00**		28.00	36.00	5.70	28.00		36.00		6.20		10.99
R028038060RA/N*	**28.00**		28.00	38.00	6.00	28.00		38.00		6.50		10.99
R028038070RA/N*	**28.00**		28.00	38.00	7.00	28.00		38.00		7.50		10.99
R028038080RA/N*	**28.00**		28.00	38.00	8.00	28.00		38.00		8.50		10.99
R028038100RA/N*	**28.00**		28.00	38.00	10.00	28.00		38.00		11.00		11.64
R030038055RA/N	**30.00**		30.00	38.00	5.50	30.00		38.00		6.00		11.64
R030038063RA/N*	**30.00**		30.00	38.00	6.30	30.00		38.00		6.80		11.64
R030038080RA/N	**30.00**		30.00	38.00	8.00	30.00		38.00		8.50		11.64
R030040060RA/N	**30.00**		30.00	40.00	6.00	30.00		40.00		6.50		11.85

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R030040070RA/N	**30.00**	+ 0.00 - 0.04	30.00	40.00	7.00	30.00	+ 0.00 - 0.04	40.00	+ 0.16 - 0.00	7.50	+ 0.20 - 0.00	11.85
R030040080RA/N*	**30.00**		30.00	40.00	8.00	30.00		40.00		8.50		11.85
R030042085RA/N*	**30.00**		30.00	42.00	8.50	30.00		42.00		9.50		12.07
R032040055RA/N*	**32.00**		32.00	40.00	5.50	32.00		40.00		6.00		12.28
R032042070RA/N	**32.00**		32.00	42.00	7.00	32.00		42.00		7.50		12.28
R032045100RA/N	**32.00**		32.00	45.00	10.00	32.00		45.00		11.00		12.28
R032048080RA/N*	**32.00**		32.00	48.00	8.00	32.00		48.00		8.50		12.28
R033043070RA/N*	**33.00**		33.00	43.00	7.00	33.00		43.00		7.50		13.36
R034044070RA/N*	**34.00**		34.00	44.00	7.00	34.00		44.00		7.50		13.36
R035041095RA/N*	**35.00**		35.00	41.00	9.50	35.00		41.00		10.00		13.99
R035043070RA/N*	**35.00**		35.00	43.00	7.00	35.00		43.00		7.50		14.01
R035043080RA/N*	**35.00**		35.00	43.00	8.00	35.00		43.00		8.50		13.36
R035045060RA/N*	**35.00**		35.00	45.00	6.00	35.00		45.00		6.50		13.36
R035045070RA/N	**35.00**		35.00	45.00	7.00	35.00		45.00		7.50		13.36
R035045080RA/N*	**35.00**		35.00	45.00	8.00	35.00		45.00		8.50		13.79
R035050080RA/N*	**35.00**		35.00	50.00	8.00	35.00		50.00		8.50		14.22
R036046070RA/N	**36.00**		36.00	46.00	7.00	36.00		46.00		7.50		14.22
R036046080RA/N*	**36.00**		36.00	46.00	8.00	36.00		46.00		8.50		14.22
R036046100RA/N*	**36.00**		36.00	46.00	10.00	36.00		46.00		11.00		14.65
R036050100RA/N*	**36.00**		36.00	50.00	10.00	36.00		50.00		11.00		14.65
R038048070RA/N	**38.00**		38.00	48.00	7.00	38.00		48.00		7.50		14.87
R040048055RA/N*	**40.00**	+ 0.00 - 0.05	40.00	48.00	5.50	40.00	+ 0.00 - 0.05	48.00		6.00		14.87
R040048080RA/N*	**40.00**		40.00	48.00	8.00	40.00		48.00		8.50		15.30
R040050070RA/N	**40.00**		40.00	50.00	7.00	40.00		50.00		7.50		15.52
R040050075RA/N-1*	**40.00**		40.00	50.00	7.50	40.00		50.00		8.00		15.36
R040050080RA/N*	**40.00**		40.00	50.00	8.00	40.00		50.00		8.50		15.52
R040050100RA/N*	**40.00**		40.00	50.00	10.00	40.00		50.00		11.00		15.52
R040055100RA/N*	**40.00**		40.00	55.00	10.00	40.00		55.00	+ 0.19 - 0.00	11.00		15.95
R042052070RA/N	**42.00**		42.00	52.00	7.00	42.00		52.00		7.50		15.95
R045055070RA/N*	**45.00**		45.00	55.00	7.00	45.00		55.00		7.50		17.46
R045055100RA/N*	**45.00**		45.00	55.00	10.00	45.00		55.00		11.00		20.69
R045060100RA/N*	**45.00**		45.00	60.00	10.00	45.00		60.00		11.00		21.77
R045061120RA/N*	**45.00**		45.00	61.00	12.00	45.00		61.00		13.00		21.77
R047057070RA/N*	**47.00**		47.00	57.00	7.00	47.00		57.00		7.50		22.20
R048058070RA/N*	**48.00**		48.00	58.00	7.00	48.00		58.00		7.50		56.78
R050058080RA/N*	**50.00**		50.00	58.00	8.00	50.00		58.00		8.50		35.13
R050060060RA/N*	**50.00**		50.00	60.00	6.00	50.00		60.00		6.50		25.86
R050060070RA/N	**50.00**		50.00	60.00	7.00	50.00		60.00		7.50		31.25
R050060100RA/N*	**50.00**		50.00	60.00	10.00	50.00		60.00		11.00		34.70
R050063080RA/N*	**50.00**		50.00	63.00	8.00	50.00		63.00		9.00		34.54
R050063085RA/N*	**50.00**		50.00	63.00	8.50	50.00		63.00		9.50		35.77
R050063120RA/N*	**50.00**		50.00	63.00	12.00	50.00		63.00		13.00		32.26
R050063130RA/N*	**50.00**		50.00	63.00	13.00	50.00		63.00		14.00		39.60
R054064070RA/N*	**54.00**		54.00	64.00	7.00	54.00		64.00		7.50		43.01
R055065070RA/N*	**55.00**		55.00	65.00	7.00	55.00		65.00		7.50		51.86
R055070100RA/N*	**55.00**		55.00	70.00	10.00	55.00		70.00		11.00		57.57

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA/N series - NBR 85A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R056068085RA/N*	**56.00**	+ 0.00 - 0.05	56.00	68.00	8.50	56.00	+ 0.00 - 0.05	68.00	+ 0.19 - 0.00	9.50	+ 0.20 - 0.00	69.96
R060070085RA/N*	**60.00**		60.00	70.00	8.50	60.00		70.00		9.50		96.91
R060070100RA/N*	**60.00**		60.00	70.00	10.00	60.00		70.00		11.00		74.28
R060072085RA/N*	**60.00**		60.00	72.00	8.50	60.00		72.00		9.50		54.20
R060074080RA/N*	**60.00**		60.00	74.00	8.00	60.00		74.00		8.50		76.68
R060075120RA/N*	**60.00**		60.00	75.00	12.00	60.00		75.00		13.00		79.07
R060080140RA/N*	**60.00**		60.00	80.00	14.00	60.00		80.00		15.00		160.41
R063073070RA/N	**63.00**		63.00	73.00	7.00	63.00		73.00		7.50		40.45
R063075085RA/N*	**63.00**		63.00	75.00	8.50	63.00		75.00		9.50		57.76
R063080160RA/N*	**63.00**		63.00	80.00	16.00	63.00		80.00		17.00		71.97
R065075100RA/N*	**65.00**	+ 0.00 - 0.06	65.00	75.00	10.00	65.00		75.00		11.00		79.07
R065077085RA/N*	**65.00**		65.00	77.00	8.50	65.00		77.00		9.50		38.01
R068080085RA/N*	**68.00**		68.00	80.00	8.50	68.00		80.00		9.50		63.01
R070080120RA/N*	**70.00**		70.00	80.00	12.00	70.00		80.00		13.00		86.27
R070082085RA/N*	**70.00**		70.00	82.00	8.50	70.00		82.00	+ 0.22 - 0.00	9.50		86.27
R070085100RA/N*	**70.00**		70.00	85.00	10.00	70.00		85.00		11.00		95.85
R075085120RA/N*	**75.00**		75.00	85.00	12.00	75.00		85.00		13.00		95.84
R080090070RA/N*	**80.00**	+ 0.00 - 0.09	80.00	90.00	7.00	80.00		90.00		7.50		91.24
R080090120RA/N*	**80.00**		80.00	90.00	12.00	80.00		90.00		13.00		103.03
R080092075RA/N*	**80.00**		80.00	92.00	7.50	80.00		92.00		8.00		123.30
R080092085RA/N*	**80.00**		80.00	92.00	8.50	80.00		92.00		9.50		56.13
R080100160RA/N*	**80.00**		80.00	100.00	16.00	80.00		100.00		17.00		66.67
R085095070RA/N*	**85.00**		85.00	95.00	7.00	85.00		95.00		7.50		75.26
R085095120RA/N*	**85.00**		85.00	95.00	12.00	85.00		95.00		13.00		107.83
R085100100RA/N*	**85.00**		85.00	100.00	10.00	85.00		100.00		11.00		119.16
R088100085RA/N*	**88.00**		88.00	100.00	8.50	88.00		100.00		9.50		124.92
R090100120RA/N*	**90.00**		90.00	100.00	12.00	90.00		100.00		13.00		110.21
R090102085RA/N*	**90.00**		90.00	102.00	8.50	90.00		102.00		9.50		41.26
R092105095RA/N*	**92.00**		92.00	105.00	9.50	92.00		105.00		10.50		62.80
R095105120RA/N*	**95.00**		95.00	105.00	12.00	95.00		105.00		13.00		81.47
R095107085RA/N*	**95.00**		95.00	107.00	8.50	95.00		107.00		9.50		72.50
R100110070RA/N*	**100.00**		100.00	110.00	7.00	100.00		110.00		7.50		52.64
R100115100RA/N*	**100.00**		100.00	115.00	10.00	100.00		115.00		11.00		52.57
R102122140RA/N*	**102.00**	+ 0.00 - 0.13	102.00	122.00	14.00	102.00		122.00		15.00		63.89
R105120100RA/N*	**105.00**		105.00	120.00	10.00	105.00		120.00		11.00		71.39
R105120120RA/N*	**105.00**		105.00	120.00	12.00	105.00		120.00		13.00		46.09
R110125100RA/N*	**110.00**		110.00	125.00	10.00	110.00		125.00	+ 0.25 - 0.00	11.00		95.85
R110130140RA/N*	**110.00**		110.00	130.00	14.00	110.00		130.00		15.00		54.43
R110140250RA/N*	**110.00**		110.00	140.00	25.00	110.00		140.00		26.00		64.50
R112127100RA/N*	**112.00**		112.00	127.00	10.00	112.00		127.00		11.00		69.81
R115125120RA/N*	**115.00**		115.00	125.00	12.00	115.00		125.00		13.00		71.42
R115130100RA/N*	**115.00**		115.00	130.00	10.00	115.00		130.00		11.00		82.17
R120135095RA/N*	**120.00**		120.00	135.00	9.50	120.00		135.00		10.50		107.03
R125140100RA/N*	**125.00**		125.00	140.00	10.00	125.00		140.00		11.00		97.60
R125140120RA/N*	**125.00**		125.00	140.00	12.00	125.00		140.00		13.00		88.50
R125145140RA/N*	**125.00**		125.00	145.00	14.00	125.00		145.00		15.00		68.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R125155250RA/N*	**125.00**	+ 0.00 - 0.13	125.00	155.00	25.00	125.00	+ 0.00 - 0.13	155.00	+ 0.25 - 0.00	26.00	+ 0.20 - 0.00	81.54
R130145100RA/N*	**130.00**		130.00	145.00	10.00	130.00		145.00		11.00		91.40
R135145120RA/N*	**135.00**		135.00	145.00	12.00	135.00		145.00		13.00		102.24
R140160140RA/N*	**140.00**		140.00	160.00	14.00	140.00		160.00		15.00		51.12
R140165140RA/N*	**140.00**		140.00	165.00	14.00	140.00		165.00		15.00		74.20
R150170140RA/N*	**150.00**		150.00	170.00	14.00	150.00		170.00		15.00		80.57
R155165120RA/N*	**155.00**		155.00	165.00	12.00	155.00		165.00		13.00		131.00
R155170100RA/N*	**155.00**		155.00	170.00	10.00	155.00		170.00		11.00		372.90
R160170120RA/N*	**160.00**		160.00	170.00	12.00	160.00		170.00		13.00		167.73
R160180140RA/N*	**160.00**		160.00	180.00	14.00	160.00		180.00		15.00		121.05
R160184150RA/N*	**160.00**		160.00	184.00	15.00	160.00		184.00	+ 0.29 - 0.00	16.00		100.88
R170190140RA/N*	**170.00**		170.00	190.00	14.00	170.00		190.00		15.00		150.43
R180200140RA/N*	**180.00**		180.00	200.00	14.00	180.00		200.00		15.00		172.25
R180205150RA/N	**180.00**		180.00	205.00	15.00	180.00		205.00		16.00		154.60
R185195120RA/N*	**185.00**		185.00	195.00	12.00	185.00		195.00		13.00		71.88
R185215200RA/N*	**185.00**		185.00	215.00	20.00	185.00		215.00		21.00		419.24
R190210140RA/N*	**190.00**		190.00	210.00	14.00	190.00		210.00		15.00		120.45
R210230140RA/N*	**210.00**		210.00	230.00	14.00	210.00		230.00		15.00		254.60
R210240280RA/N*	**210.00**		210.00	240.00	28.00	210.00		240.00		29.00		314.40
R215225120RA/N*	**215.00**		215.00	225.00	12.00	215.00		225.00		13.00		324.60
R220250200RA/N*	**220.00**		220.00	250.00	20.00	220.00		250.00		21.00		351.80

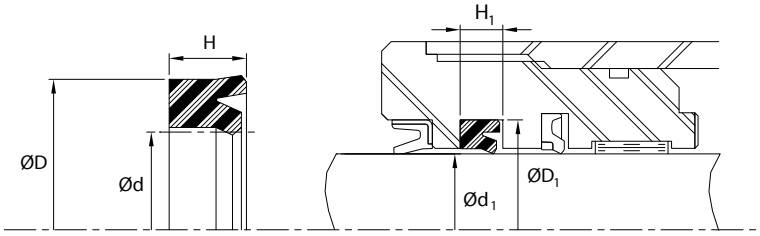
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



RA-E - Rod seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-22°F to +212°F (-30°C to +100°C)	≤5800 psi (≤400 bar)	< 1.6 ft/s (0.5 m/s)



RA-style rod seal is a non-symmetrical hydraulic U-Cup type seal. The machined, beveled lip faces the rod to provide both low and high pressures as well as to wipe the rod of the fluid film. Its robust construction makes it particularly well suited for applications in mobile hydraulics.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R006010030RA-E*	**6.00**	+ 0.00 - 0.04	6.00	10.00	3.00	6.00	+ 0.00 - 0.04	10.00	+ 0.07 - 0.00	3.50	+ 0.30 - 0.00	5.83
R006012040RA-E*	**6.00**		6.00	12.00	4.00	6.00		12.00		4.50		5.83
R006013050RA-E*	**6.00**		6.00	13.00	5.00	6.00		13.00		6.00		5.83
R006014058RA-E*	**6.00**		6.00	14.00	5.80	6.00		14.00		6.80		5.83
R008014032RA-E	**8.00**		8.00	14.00	3.20	8.00		14.00		4.00		5.83
R008014040RA-E*	**8.00**		8.00	14.00	4.00	8.00		14.00		4.50		5.83
R008018080RA-E*	**8.00**		8.00	18.00	8.00	8.00		18.00		9.00		6.89
R010014040RA-E*	**10.00**		10.00	14.00	4.00	10.00		14.00		4.50		6.89
R010016045RA-E*	**10.00**		10.00	16.00	4.50	10.00		16.00		5.00		7.16
R010018057RA-E*	**10.00**		10.00	18.00	5.70	10.00		18.00		6.30		7.16
R010020045RA-E*	**10.00**		10.00	20.00	4.50	10.00		20.00		5.00		8.75
R012016030RA-E*	**12.00**		12.00	16.00	3.00	12.00		16.00	+ 0.08 - 0.00	3.50		7.16
R012017037RA-E*	**12.00**		12.00	17.00	3.70	12.00		17.00		4.20		7.16
R012020055RA-E*	**12.00**		12.00	20.00	5.50	12.00		20.00		6.50		7.09
R012022050RA-E*	**12.00**		12.00	22.00	5.00	12.00		22.00		6.00		8.75
R012022075RA-E*	**12.00**		12.00	22.00	7.50	12.00		22.00		8.50		8.75
R012022080RA-E*	**12.00**		12.00	22.00	8.00	12.00		22.00		9.00		8.75
R014024080RA-E*	**14.00**		14.00	24.00	8.00	14.00		24.00		9.00		9.00
R015023060RA-E*	**15.00**		15.00	23.00	6.00	15.00		23.00		7.00		9.28
R016022050RA-E*	**16.00**		16.00	22.00	5.00	16.00		22.00		6.00		9.28
R016023055RA-E*	**16.00**		16.00	23.00	5.50	16.00		23.00		6.50		9.28
R016024050RA-E*	**16.00**		16.00	24.00	5.00	16.00		24.00		6.00		9.55
R016024065RA-E*	**16.00**		16.00	24.00	6.50	16.00		24.00		7.50		9.28

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Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R016026050RA-E*	**16.00**	+ 0.00 - 0.04	16.00	26.00	5.00	16.00	+ 0.00 - 0.04	26.00	+ 0.08 - 0.00	6.00	+ 0.30 - 0.00	9.28
R016026070RA-E*	**16.00**		16.00	26.00	7.00	16.00		26.00		8.00		9.28
R018024050RA-E*	**18.00**		18.00	24.00	5.00	18.00		24.00		6.00		6.85
R018025050RA-E*	**18.00**		18.00	25.00	5.00	18.00		25.00		6.00		9.28
R018026045RA-E*	**18.00**		18.00	26.00	4.50	18.00		26.00		5.50		9.55
R018028070RA-E*	**18.00**		18.00	28.00	7.00	18.00		28.00		8.00		9.81
R020025050RA-E*	**20.00**		20.00	25.00	5.00	20.00		25.00		6.00		0.00
R020028050RA-E	**20.00**		20.00	28.00	5.00	20.00		28.00		6.00		0.00
R020028057RA-E	**20.00**		20.00	28.00	5.70	20.00		28.00		6.30		9.81
R020028070RA-E*	**20.00**		20.00	28.00	7.00	20.00		28.00		8.00		9.81
R020030060RA-E	**20.00**		20.00	30.00	6.00	20.00		30.00		7.00		10.61
R020030072RA-E*	**20.00**		20.00	30.00	7.20	20.00		30.00		8.00		9.81
R020030080RA-E*	**20.00**		20.00	30.00	8.00	20.00		30.00		9.00		11.14
R020030100RA-E*	**20.00**		20.00	30.00	10.00	20.00		30.00		11.00		11.67
R020032060RA-E*	**20.00**		20.00	32.00	6.00	20.00		32.00		7.00		10.87
R020032075RA-E*	**20.00**		20.00	32.00	7.50	20.00		32.00		8.50		10.61
R022030050RA-E*	**22.00**		22.00	30.00	5.00	22.00		30.00		5.70		8.53
R022030070RA-E*	**22.00**		22.00	30.00	7.00	22.00		30.00		8.00		10.61
R022030080RA-E*	**22.00**		22.00	30.00	8.00	22.00		30.00		9.00		10.61
R025032057RA-E	**25.00**		25.00	32.00	5.70	25.00		32.00	+ 0.10 - 0.00	6.30		10.61
R025033100RA-E	**25.00**		25.00	33.00	10.00	25.00		33.00		11.00		8.53
R025035060RA-E	**25.00**		25.00	35.00	6.00	25.00		35.00		7.00		11.67
R025035080RA-E	**25.00**		25.00	35.00	8.00	25.00		35.00		9.00		11.67
R025035100RA-E*	**25.00**		25.00	35.00	10.00	25.00		35.00		11.00		9.18
R025037060RA-E	**25.00**		25.00	37.00	6.00	25.00		37.00		7.00		11.67
R025040100RA-E*	**25.00**		25.00	40.00	10.00	25.00		40.00		11.00		10.05
R028035070RA-E*	**28.00**		28.00	35.00	7.00	28.00		35.00		8.00		11.67
R028036057RA-E*	**28.00**		28.00	36.00	5.70	28.00		36.00		6.70		11.67
R028036080RA-E*	**28.00**		28.00	36.00	8.00	28.00		36.00		9.00		11.67
R028038060RA-E*	**28.00**		28.00	38.00	6.00	28.00		38.00		7.00		11.67
R028038070RA-E*	**28.00**		28.00	38.00	7.00	28.00		38.00		8.00		11.67
R028038080RA-E*	**28.00**		28.00	38.00	8.00	28.00		38.00		9.00		11.67
R028038100RA-E*	**28.00**		28.00	38.00	10.00	28.00		38.00		11.00		11.67
R030037060RA-E*	**30.00**		30.00	37.00	6.00	30.00		37.00		7.00		10.55
R030038057RA-E*	**30.00**		30.00	38.00	5.70	30.00		38.00		6.70		9.38
R030038060RA-E*	**30.00**		30.00	38.00	6.00	30.00		38.00		7.00		11.67
R030038080RA-E	**30.00**		30.00	38.00	8.00	30.00		38.00		9.00		9.38
R030040057RA-E	**30.00**		30.00	40.00	5.70	30.00		40.00		6.30		12.50
R030040060RA-E	**30.00**		30.00	40.00	6.00	30.00		40.00		7.00		12.20
R030040070RA-E	**30.00**		30.00	40.00	7.00	30.00		40.00		8.00		12.20
R030040080RA-E	**30.00**		30.00	40.00	8.00	30.00		40.00		9.00		12.20
R030040100RA-E	**30.00**		30.00	40.00	10.00	30.00		40.00		11.00		12.17
R030042085RA-E*	**30.00**		30.00	42.00	8.50	30.00		42.00		9.50		12.09
R032042070RA-E*	**32.00**		32.00	42.00	7.00	32.00		42.00		8.00		10.27
R032042100RA-E	**32.00**		32.00	42.00	10.00	32.00		42.00		11.00		10.76
R032048080RA-E*	**32.00**		32.00	48.00	8.00	32.00		48.00		9.00		12.94

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA-E series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R032048100RA-E	**32.00**	+ 0.00 - 0.04	32.00	48.00	10.00	32.00	+ 0.00 - 0.04	48.00	+ 0.10 - 0.00	11.00	+ 0.30 - 0.00	13.65
R033043100RA-E*	**33.00**		33.00	43.00	10.00	33.00		43.00		11.00		12.39
R035043057RA-E	**35.00**		35.00	43.00	5.70	35.00		43.00		6.30		11.67
R035043080RA-E*	**35.00**		35.00	43.00	8.00	35.00		43.00		9.00		11.67
R035045060RA-E*	**35.00**		35.00	45.00	6.00	35.00		45.00		7.00		12.09
R035045070RA-E	**35.00**		35.00	45.00	7.00	35.00		45.00		8.00		12.09
R035045080RA-E*	**35.00**		35.00	45.00	8.00	35.00		45.00		9.00		12.09
R035045100RA-E	**35.00**		35.00	45.00	10.00	35.00		45.00		11.00		12.30
R035050080RA-E*	**35.00**		35.00	50.00	8.00	35.00		50.00		9.00		12.73
R036046060RA-E*	**36.00**		36.00	46.00	6.00	36.00		46.00		7.00		12.73
R036046080RA-E*	**36.00**		36.00	46.00	8.00	36.00		46.00		9.00		12.09
R036046100RA-E*	**36.00**		36.00	46.00	10.00	36.00		46.00		11.00		12.09
R036051100RA-E*	**36.00**		36.00	51.00	10.00	36.00		51.00	+ 0.12 - 0.00	11.00		12.73
R038048080RA-E	**38.00**		38.00	48.00	8.00	38.00		48.00		9.00		12.52
R040048057RA-E	**40.00**	+ 0.00 - 0.05	40.00	48.00	5.70	40.00	+ 0.00 - 0.05	48.00		6.30		11.67
R040048080RA-E*	**40.00**		40.00	48.00	8.00	40.00		48.00		9.00		12.73
R040050072RA-E	**40.00**		40.00	50.00	7.20	40.00		50.00		8.00		12.73
R040050080RA-E	**40.00**		40.00	50.00	8.00	40.00		50.00		9.00		12.73
R040050100RA-E	**40.00**		40.00	50.00	10.00	40.00		50.00		11.00		12.73
R040052080RA-E	**40.00**		40.00	52.00	8.00	40.00		52.00		9.00		14.52
R040055100RA-E	**40.00**		40.00	55.00	10.00	40.00		55.00		11.00		12.73
R040056120RA-E	**40.00**		40.00	56.00	12.00	40.00		56.00		13.00		13.01
R040060120RA-E	**40.00**		40.00	60.00	12.00	40.00		60.00		13.00		14.00
R042052070RA-E*	**42.00**		42.00	52.00	7.00	42.00		52.00		8.00		13.15
R045055070RA-E	**45.00**		45.00	55.00	7.00	45.00		55.00		8.00		13.58
R045055100RA-E	**45.00**		45.00	55.00	10.00	45.00		55.00		11.00		13.58
R045060090RA-E*	**45.00**		45.00	60.00	9.00	45.00		60.00		10.00		13.79
R045061120RA-E*	**45.00**		45.00	61.00	12.00	45.00		61.00		13.00		14.00
R045065100RA-E*	**45.00**		45.00	65.00	10.00	45.00		65.00		11.00		14.25
R045065120RA-E	**45.00**		45.00	65.00	12.00	45.00		65.00		13.00		14.74
R050060060RA-E	**50.00**		50.00	60.00	6.00	50.00		60.00		7.00		14.99
R050060070RA-E	**50.00**		50.00	60.00	7.00	50.00		60.00		8.00		15.01
R050060080RA-E	**50.00**		50.00	60.00	8.00	50.00		60.00		9.00		14.21
R050060100RA-E*	**50.00**		50.00	60.00	10.00	50.00		60.00		11.00		14.00
R050062080RA-E*	**50.00**		50.00	62.00	8.00	50.00		62.00		9.00		14.00
R050063080RA-E	**50.00**		50.00	63.00	8.00	50.00		63.00		9.00		16.40
R050065100RA-E*	**50.00**		50.00	65.00	10.00	50.00		65.00		11.00		14.21
R055065073RA-E*	**55.00**		55.00	65.00	7.30	55.00		65.00		8.30		14.00
R055065100RA-E*	**55.00**		55.00	65.00	10.00	55.00		65.00		11.00		14.21
R055071120RA-E*	**55.00**		55.00	71.00	12.00	55.00		71.00		13.00		14.64
R056066100RA-E*	**56.00**		56.00	66.00	10.00	56.00		66.00		11.00		15.49
R056068085RA-E*	**56.00**		56.00	68.00	8.50	56.00		68.00		9.50		14.21
R056076120RA-E*	**56.00**		56.00	76.00	12.00	56.00		76.00		13.00		15.50
R060070085RA-E*	**60.00**		60.00	70.00	8.50	60.00		70.00		9.50		14.64
R060070100RA-E*	**60.00**		60.00	70.00	10.00	60.00		70.00		11.00		15.06
R060070120RA-E*	**60.00**		60.00	70.00	12.00	60.00		70.00		13.00		15.49

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R060072085RA-E*	**60.00**	+ 0.00 - 0.05	60.00	72.00	8.50	60.00	+ 0.00 - 0.05	72.00	+ 0.12 - 0.00	9.50	+ 0.30 - 0.00	15.06
R060074080RA-E*	**60.00**		60.00	74.00	8.00	60.00		74.00		9.00		15.06
R060075120RA-E*	**60.00**		60.00	75.00	12.00	60.00		75.00		13.00		16.12
R060076100RA-E*	**60.00**		60.00	76.00	10.00	60.00		76.00		11.00		15.74
R063073065RA-E*	**63.00**		63.00	73.00	6.50	63.00		73.00		7.50		15.49
R063073120RA-E*	**63.00**		63.00	73.00	12.00	63.00		73.00		13.00		16.34
R063075085RA-E*	**63.00**		63.00	75.00	8.50	63.00		75.00		9.50		15.91
R063078100RA-E*	**63.00**		63.00	78.00	10.00	63.00		78.00		11.00		17.30
R065075100RA-E*	**65.00**	+ 0.00 - 0.06	65.00	75.00	10.00	65.00	+ 0.00 - 0.06	75.00		11.00		15.49
R065078100RA-E*	**65.00**		65.00	78.00	10.00	65.00		78.00		11.00		16.18
R065080100RA-E	**65.00**		65.00	80.00	10.00	65.00		80.00		11.00		19.06
R065085120RA-E*	**65.00**		65.00	85.00	12.00	65.00		85.00		13.00		18.99
R067077060RA-E*	**67.00**		67.00	77.00	6.00	67.00		77.00		7.00		17.85
R070080060RA-E	**70.00**		70.00	80.00	6.00	70.00		80.00		7.00		17.54
R070080120RA-E*	**70.00**		70.00	80.00	12.00	70.00		80.00		13.00		16.55
R070085100RA-E*	**70.00**		70.00	85.00	10.00	70.00		85.00		11.00		16.97
R070085115RA-E*	**70.00**		70.00	85.00	11.50	70.00		85.00		12.50		17.40
R070090135RA-E*	**70.00**		70.00	90.00	13.50	70.00		90.00		14.50		15.70
R075085072RA-E*	**75.00**		75.00	85.00	7.20	75.00		85.00	+ 0.14 - 0.00	8.00		14.16
R075085120RA-E*	**75.00**		75.00	85.00	12.00	75.00		85.00		13.00		14.74
R075095120RA-E*	**75.00**		75.00	95.00	12.00	75.00		95.00		13.00		17.18
R080090080RA-E*	**80.00**		80.00	90.00	8.00	80.00		90.00		9.00		17.50
R080090120RA-E*	**80.00**	+ 0.00 - 0.09	80.00	90.00	12.00	80.00	+ 0.00 - 0.09	90.00		13.00		17.82
R080093100RA-E*	**80.00**		80.00	93.00	10.00	80.00		93.00		11.00		18.71
R080095100RA-E*	**80.00**		80.00	95.00	10.00	80.00		95.00		11.00		18.46
R080100135RA-E*	**80.00**		80.00	100.00	13.50	80.00		100.00		14.50		21.21
R085095070RA-E	**85.00**		85.00	95.00	7.00	85.00		95.00		8.00		18.24
R085095120RA-E*	**85.00**		85.00	95.00	12.00	85.00		95.00		13.00		18.46
R085100100RA-E*	**85.00**		85.00	100.00	10.00	85.00		100.00		11.00		22.28
R085105120RA-E	**85.00**		85.00	105.00	12.00	85.00		105.00		13.00		18.46
R090100120RA-E*	**90.00**		90.00	100.00	12.00	90.00		100.00		13.00		18.46
R090102090RA-E*	**90.00**		90.00	102.00	9.00	90.00		102.00		10.00		16.76
R090105114RA-E*	**90.00**		90.00	105.00	11.40	90.00		105.00		12.40		15.86
R090110115RA-E*	**90.00**		90.00	110.00	11.50	90.00		110.00		12.50		16.76
R095105120RA-E*	**95.00**		95.00	105.00	12.00	95.00		105.00		13.00		18.46
R095110120RA-E*	**95.00**		95.00	110.00	12.00	95.00		110.00		13.00		20.37
R100110060RA-E*	**100.00**		100.00	110.00	6.00	100.00		110.00		7.00		22.50
R100110140RA-E*	**100.00**		100.00	110.00	14.00	100.00		110.00		15.00		23.34
R100115090RA-E*	**100.00**		100.00	115.00	9.00	100.00		115.00		10.00		23.34
R100115120RA-E*	**100.00**		100.00	115.00	12.00	100.00		115.00		13.00		20.06
R100120135RA-E*	**100.00**		100.00	120.00	13.50	100.00		120.00		14.50		26.52
R100120145RA-E*	**100.00**		100.00	120.00	14.50	100.00		120.00		15.50		20.31
R105120120RA-E*	**105.00**		105.00	120.00	12.00	105.00		120.00		13.00		25.46
R105125120RA-E*	**105.00**		105.00	125.00	12.00	105.00		125.00		13.00		26.94
R110130115RA-E*	**110.00**		110.00	130.00	11.50	110.00		130.00		12.50		26.31
R115125120RA-E*	**115.00**		115.00	125.00	12.00	115.00		125.00		13.00		24.40

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA-E series - AU 94A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R120135095RA-E*	**120.00**	+ 0.00 - 0.09	120.00	135.00	9.50	120.00	+ 0.00 - 0.09	135.00	+ 0.14 - 0.00	10.50	+ 0.30 - 0.00	26.94
R120135145RA-E*	**120.00**		120.00	135.00	14.50	120.00		135.00		15.50		31.19
R120140115RA-E*	**120.00**		120.00	140.00	11.50	120.00		140.00		12.50		29.70
R120140146RA-E*	**120.00**		120.00	140.00	14.60	120.00		140.00		15.60		31.19
R125135135RA-E*	**125.00**	+ 0.00 - 0.13	125.00	135.00	13.50	125.00	+ 0.00 - 0.13	135.00	+ 0.16 - 0.00	14.50		30.76
R125140090RA-E*	**125.00**		125.00	140.00	9.00	125.00		140.00		10.00		52.15
R125145120RA-E*	**125.00**		125.00	145.00	12.00	125.00		145.00		13.00		26.92
R128140100RA-E*	**128.00**		128.00	140.00	10.00	128.00		140.00		11.00		31.74
R130140135RA-E*	**130.00**		130.00	140.00	13.50	130.00		140.00		14.50		24.13
R130150150RA-E*	**130.00**		130.00	150.00	15.00	130.00		150.00		16.00		31.74
R132142060RA-E*	**132.00**		132.00	142.00	6.00	132.00		142.00		7.00		21.16
R135145120RA-E*	**135.00**		135.00	145.00	12.00	135.00		145.00		13.00		24.32
R150160135RA-E*	**150.00**		150.00	160.00	13.50	150.00		160.00		14.50		31.74
R150165090RA-E*	**150.00**		150.00	165.00	9.00	150.00		165.00		10.00		32.86
R150170135RA-E*	**150.00**		150.00	170.00	13.50	150.00		170.00		14.50		37.13
R150170150RA-E*	**150.00**		150.00	170.00	15.00	150.00		170.00		16.00		37.13
R155165120RA-E*	**155.00**		155.00	165.00	12.00	155.00		165.00		13.00		32.11
R160170120RA-E*	**160.00**		160.00	170.00	12.00	160.00		170.00		13.00		34.71
R160180120RA-E*	**160.00**		160.00	180.00	12.00	160.00		180.00		13.00		45.66
R160180150RA-E*	**160.00**		160.00	180.00	15.00	160.00		180.00		16.00		45.66
R165180110RA-E*	**165.00**		165.00	180.00	11.00	165.00		180.00		12.00		35.45
R170180145RA-E*	**170.00**		170.00	180.00	14.50	170.00		180.00		15.50		37.13
R170185090RA-E*	**170.00**		170.00	185.00	9.00	170.00		185.00		10.00		35.60
R170190150RA-E*	**170.00**		170.00	190.00	15.00	170.00		190.00		16.00		32.01
R180190110RA-E*	**180.00**		180.00	190.00	11.00	180.00		190.00	+ 0.18 - 0.00	12.00		51.05
R180192100RA-E*	**180.00**		180.00	192.00	10.00	180.00		192.00		11.00		63.98
R180192120RA-E*	**180.00**		180.00	192.00	12.00	180.00		192.00		13.00		61.20
R180195125RA-E*	**180.00**		180.00	195.00	12.50	180.00		195.00		13.50		58.66
R180200120RA-E*	**180.00**		180.00	200.00	12.00	180.00		200.00		13.00		51.05
R180200150RA-E*	**180.00**		180.00	200.00	15.00	180.00		200.00		16.00		51.05
R185195120RA-E*	**185.00**		185.00	195.00	12.00	185.00		195.00		13.00		58.29
R200220120RA-E*	**200.00**		200.00	220.00	12.00	200.00		220.00		13.00		62.80
R200220150RA-E*	**200.00**		200.00	220.00	15.00	200.00		220.00		16.00		83.53
R200225150RA-E*	**200.00**		200.00	225.00	15.00	200.00		225.00		16.00		87.24
R210222120RA-E*	**210.00**		210.00	222.00	12.00	210.00		222.00		13.00		99.40
R210230120RA-E*	**210.00**		210.00	230.00	12.00	210.00		230.00		13.00		176.99
R210230160RA-E	**210.00**		210.00	230.00	16.00	210.00		230.00		17.00		180.36
R210240280RA-E*	**210.00**		210.00	240.00	28.00	210.00		240.00		29.00		162.05
R212224100RA-E*	**212.00**		212.00	224.00	10.00	212.00		224.00		11.00		67.01
R215225120RA-E*	**215.00**		215.00	225.00	12.00	215.00		225.00		13.00		67.01
R220240150RA-E*	**220.00**		220.00	240.00	15.00	220.00		240.00		16.00		88.54
R220245190RA-E*	**220.00**		220.00	245.00	19.00	220.00		245.00		20.00		99.12
R220250227RA-E*	**220.00**		220.00	250.00	22.70	220.00		250.00		23.70		111.93
R240250120RA-E*	**240.00**		240.00	250.00	12.00	240.00		250.00		13.00		100.05
R240260150RA-E*	**240.00**		240.00	260.00	15.00	240.00		260.00		16.00		129.57
R240270180RA-E*	**240.00**		240.00	270.00	18.00	240.00		270.00		19.00		121.40

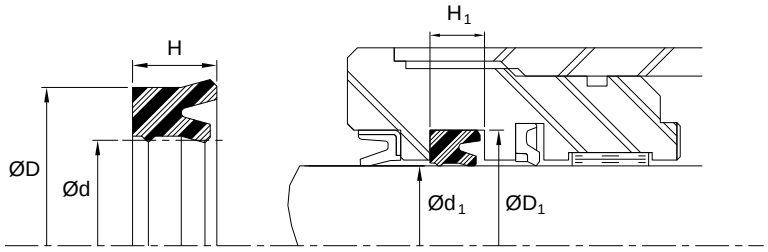
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R250270150RA-E*	**250.00**	+ 0.00 - 0.13	250.00	270.00	15.00	250.00	+ 0.00 - 0.13	270.00	+ 0.21 - 0.00	16.00	+ 0.30 - 0.00	140.15
R280300150RA-E*	**280.00**		280.00	300.00	15.00	280.00		300.00		16.00		150.73
R300360228RA-E*	**300.00**		300.00	360.00	22.80	300.00		360.00		23.80		202.33
R345375200RA-E*	**345.00**		345.00	375.00	20.00	345.00		375.00		21.00		270.20

RC - Rod seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-31°F to +212°F (-35°C to +100°C)	≤5 800 psi (≤400 bar)	< 1.6 ft/s (0.5 m/s)



Though similar in design and function to the **RA-style**, the **RC-style** has the additional benefit of a secondary dynamic lip located closer to the heel portion of the seal. This feature allows for greater stability in the groove, especially on long strokes, rapid cycling or pressure spikes.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R008016057RC*	**8.00**	+ 0.00 - 0.04	8.00	16.00	5.70	8.00	+ 0.00 - 0.04	16.00	+ 0.11 - 0.00	6.30	+ 0.25 - 0.00	17.13
R008018070RC*	**8.00**		8.00	18.00	7.00	8.00		18.00		8.00		16.21
R008018080RC*	**8.00**		8.00	18.00	8.00	8.00		18.00		9.00		16.01
R009016057RC*	**9.00**		9.00	16.00	5.70	9.00		16.00		6.30		15.26
R010015036RC	**10.00**		10.00	15.00	3.60	10.00		15.00		4.00		14.61
R010016045RC	**10.00**		10.00	16.00	4.50	10.00		16.00		5.30		18.55
R010018057RC*	**10.00**		10.00	18.00	5.70	10.00		18.00		6.30		13.38
R012018040RC*	**12.00**		12.00	18.00	4.00	12.00		18.00	+ 0.13 - 0.00	4.50		14.20
R012018055RC*	**12.70**		12.70	18.00	5.50	12.70		18.00		6.00		15.26
R012018057RC	**12.00**		12.00	18.00	5.70	12.00		18.00		6.30		13.31
R012019045RC*	**12.00**		12.00	19.00	4.50	12.00		19.00		5.00		14.61
R012019050RC*	**12.00**		12.00	19.00	5.00	12.00		19.00		5.60		10.32
R012020057RC	**12.00**		12.00	20.00	5.70	12.00		20.00		6.30		13.46

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RC series - AU 93A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R012022077RC*	**12.00**	+ 0.00 - 0.04	12.00	22.00	7.70	12.00	+ 0.00 - 0.04	22.00	+ 0.13 - 0.00	9.00	+ 0.25 - 0.00	15.26
R013020045RC	**13.00**		13.00	20.00	4.50	13.00		20.00		5.00		14.61
R014022057RC	**14.00**		14.00	22.00	5.70	14.00		22.00		6.30		15.26
R014024073RC*	**14.00**		14.00	24.00	7.30	14.00		24.00		8.00		15.26
R016022045RC	**16.00**		16.00	22.00	4.50	16.00		22.00		5.00		14.61
R016022050RC	**16.00**		16.00	22.00	5.00	16.00		22.00		6.00		16.62
R016024057RC	**16.00**		16.00	24.00	5.70	16.00		24.00		6.30		16.37
R016024063RC*	**16.00**		16.00	24.00	6.30	16.00		24.00		7.00		17.39
R016026073RC*	**16.00**		16.00	26.00	7.30	16.00		26.00		8.00		21.25
R016026077RC*	**16.00**		16.00	26.00	7.70	16.00		26.00		9.00		14.43
R018024049RC	**18.00**		18.00	24.00	4.90	18.00		24.00		5.90		14.59
R018025050RC	**18.00**		18.00	25.00	5.00	18.00		25.00		6.00		15.13
R018026050RC	**18.00**		18.00	26.00	5.00	18.00		26.00		5.70		15.26
R018026057RC	**18.00**		18.00	26.00	5.70	18.00		26.00		6.30		15.26
R018026060RC*	**18.00**		18.00	26.00	6.00	18.00		26.00		7.00		16.83
R018028077RC*	**18.00**		18.00	28.00	7.70	18.00		28.00		9.00		14.61
R020025032RC	**20.00**		20.00	25.00	3.20	20.00		25.00		3.50		15.43
R020026050RC	**20.00**		20.00	26.00	5.00	20.00		26.00		5.50		11.98
R020028050RC	**20.00**		20.00	28.00	5.00	20.00		28.00		5.70		15.94
R020028057RC	**20.00**		20.00	28.00	5.70	20.00		28.00		6.30		13.71
R020028080RC	**20.00**		20.00	28.00	8.00	20.00		28.00		9.00		15.06
R020030060RC	**20.00**		20.00	30.00	6.00	20.00		30.00		7.00		15.94
R020030077RC*	**20.00**		20.00	30.00	7.70	20.00		30.00		9.00		14.37
R020030080RC	**20.00**		20.00	30.00	8.00	20.00		30.00		9.00		15.74
R020030100RC	**20.00**		20.00	30.00	10.00	20.00		30.00		11.00		16.62
R022030050RC	**22.40**		22.40	30.00	5.00	22.40		30.00	+ 0.16 - 0.00	5.70		15.26
R022030057RC	**22.00**		22.00	30.00	5.70	22.00		30.00		6.30		13.17
R022030073RC	**22.00**		22.00	30.00	7.30	22.00		30.00		8.00		15.94
R022032073RC	**22.00**		22.00	32.00	7.30	22.00		32.00		8.00		13.71
R022032080RC*	**22.40**		22.40	32.40	8.00	22.40		32.40		9.00		18.69
R022032100RC	**22.00**		22.00	32.00	10.00	22.00		32.00		11.00		15.26
R022033038RC	**22.00**		22.00	33.00	3.80	22.00		33.00		4.30		10.32
R025033050RC	**25.00**		25.00	33.00	5.00	25.00		33.00		5.70		15.26
R025033057RC	**25.00**		25.00	33.00	5.70	25.00		33.00		6.30		13.17
R025033063RC*	**25.00**		25.00	33.00	6.30	25.00		33.00		7.00		15.26
R025033065RC	**25.00**		25.00	33.00	6.50	25.00		33.00		7.30		15.26
R025033068RC	**25.00**		25.00	33.00	6.80	25.00		33.00		7.50		15.94
R025033100RC	**25.00**		25.00	33.00	10.00	25.00		33.00		11.00		15.94
R025035073RC	**25.00**		25.00	35.00	7.30	25.00		35.00		8.00		16.53
R025035077RC	**25.00**		25.00	35.00	7.70	25.00		35.00		9.00		14.47
R025035080RC	**25.00**		25.00	35.00	8.00	25.00		35.00		9.00		20.31
R025035100RC	**25.00**		25.00	35.00	10.00	25.00		35.00		11.00		14.47
R025037100RC*	**25.00**		25.00	37.00	10.00	25.00		37.00		11.00		19.23
R025040100RC	**25.00**		25.00	40.00	10.00	25.00		40.00		11.00		19.23
R026036070RC*	**26.00**		26.00	36.00	7.00	26.00		36.00		8.00		16.62
R028035050RC	**28.00**		28.00	35.50	5.00	28.00		35.50		5.70		13.70

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R028036057RC	**28.00**	+ 0.00 - 0.04	28.00	36.00	5.70	28.00	+ 0.00 - 0.13	36.00	+ 0.16 - 0.00	6.30	+ 0.25 - 0.00	18.60
R028036073RC	**28.00**		28.00	36.00	7.30	28.00		36.00		8.00		16.45
R028038073RC	**28.00**		28.00	38.00	7.30	28.00		38.00		8.00		14.47
R028043114RC*	**28.00**		28.00	43.00	11.40	28.00		43.00		12.50		14.47
R030038057RC*	**30.00**		30.00	38.00	5.70	30.00		38.00		6.30		15.01
R030038063RC	**30.00**		30.00	38.00	6.30	30.00		38.00		7.00		14.47
R030040060RC	**30.00**		30.00	40.00	6.00	30.00		40.00		7.00		14.96
R030040070RC	**30.00**		30.00	40.00	7.00	30.00		40.00		7.70		18.20
R030040073RC	**30.00**		30.00	40.00	7.30	30.00		40.00		8.00		15.12
R030040100RC	**30.00**		30.00	40.00	10.00	30.00		40.00		11.00		15.03
R030042109RC*	**30.00**		30.00	42.00	10.90	30.00		42.00		12.00		20.58
R030050100RC*	**30.00**		30.00	50.00	10.00	30.00		50.00		11.00		21.26
R032040060RC	**32.00**		32.00	40.00	6.00	32.00		40.00		7.00		12.56
R032040067RC	**32.00**		32.00	40.00	6.70	32.00		40.00		7.70		15.94
R032040077RC	**32.00**		32.00	40.00	7.70	32.00		40.00		9.00		14.50
R032040080RC	**32.00**		32.00	40.00	8.00	32.00		40.00		9.00		15.72
R032041079RC	**32.00**		32.00	41.50	7.90	32.00		41.50		8.90		16.62
R032042057RC	**32.00**		32.00	42.00	5.70	32.00		42.00		6.30		13.71
R032042073RC	**32.00**		32.00	42.00	7.30	32.00		42.00		8.00		16.02
R032042100RC	**32.00**		32.00	42.00	10.00	32.00		42.00		11.00		16.02
R032045100RC	**32.00**		32.00	45.00	10.00	32.00		45.00		11.00		20.82
R032047091RC	**32.00**		32.00	47.00	9.10	32.00		47.00		10.00		16.60
R032047100RC	**32.00**		32.00	47.00	10.00	32.00		47.00		11.00		16.60
R032048100RC	**32.00**		32.00	48.00	10.00	32.00		48.00		11.00		19.39
R035043057RC	**35.00**		35.00	43.00	5.70	35.00		43.00		6.30		18.40
R035043063RC	**35.00**		35.00	43.00	6.30	35.00		43.00		7.00		14.47
R035043082RC	**35.00**		35.00	43.00	8.20	35.00		43.00		9.00		14.47
R035045060RC	**35.00**		35.00	45.00	6.00	35.00		45.00		7.00		20.58
R035045060RC-1*	**35.50**		35.50	45.00	6.00	35.50		45.00		7.00		18.99
R035045073RC	**35.00**		35.00	45.00	7.30	35.00		45.00		8.00		17.49
R035045077RC	**35.00**		35.00	45.00	7.70	35.00		45.00		9.00		15.63
R035045100RC	**35.00**		35.00	45.00	10.00	35.00		45.00		11.00		14.47
R035050090RC*	**35.00**		35.00	50.00	9.00	35.00		50.00		10.00		17.62
R035050100RC	**35.00**		35.00	50.00	10.00	35.00		50.00		11.00		17.15
R035050100RC-1*	**35.50**		35.50	50.50	10.00	35.50		50.50		11.00		15.21
R036044053RC/610*	**36.00**		36.00	44.00	5.30	36.00		44.00		6.30		11.35
R036044058RC	**36.00**		36.00	44.00	5.80	36.00		44.00		6.30		14.80
R036044064RC	**36.00**		36.00	44.00	6.40	36.00		44.00		7.50		13.71
R036044082RC	**36.00**		36.00	44.00	8.20	36.00		44.00		9.00		14.67
R036046057RC*	**36.00**		36.00	46.00	5.70	36.00		46.00		6.30		16.62
R036046073RC	**36.00**		36.00	46.00	7.30	36.00		46.00		8.00		14.34
R036046100RC	**36.00**		36.00	46.00	10.00	36.00		46.00		11.00		16.02
R037047080RC	**37.00**		37.00	47.00	8.00	37.00		47.00		9.00		16.14
R037047100RC	**37.00**		37.00	47.00	10.00	37.00		47.00		11.00		23.52
R038048100RC	**38.00**		38.00	48.00	10.00	38.00		48.00		11.00		19.59
R038050085RC*	**38.00**		38.00	50.00	8.50	38.00		50.00		9.50		16.92

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RC series - AU 93A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R038050100RC	**38.00**	+ 0.00 - 0.04	38.00	50.00	10.00	38.00	+ 0.00 - 0.04	50.00	+ 0.16 - 0.00	11.00	+ 0.25 - 0.00	21.42
R038053100RC	**38.00**		38.00	53.00	10.00	38.00		53.00		11.00		20.31
R040048057RC	**40.00**	+ 0.00 - 0.05	40.00	48.00	5.70	40.00	+ 0.00 - 0.05	48.00		6.30		17.80
R040048082RC	**40.00**		40.00	48.00	8.20	40.00		48.00		9.00		16.02
R040049095RC	**40.00**		40.00	49.50	9.50	40.00		49.50		10.50		18.58
R040050060RC	**40.00**		40.00	50.00	6.00	40.00		50.00		7.00		18.58
R040050070RC	**40.00**		40.00	50.00	7.00	40.00		50.00		8.00		19.88
R040050073RC	**40.00**		40.00	50.00	7.30	40.00		50.00		8.00		18.58
R040050100RC	**40.00**		40.00	50.00	10.00	40.00		50.00		11.00		22.55
R040052109RC	**40.00**		40.00	52.00	10.90	40.00		52.00		12.00		22.52
R040055090RC	**40.00**		40.00	55.00	9.00	40.00		55.00		10.00		22.52
R040055100RC	**40.00**		40.00	55.00	10.00	40.00		55.00		11.00		19.49
R040060100RC*	**40.00**		40.00	60.00	10.00	40.00		60.00		11.00		21.22
R042050075RC	**42.00**		42.00	50.00	7.50	42.00		50.00	+ 0.19 - 0.00	8.00		16.62
R042052100RC	**42.00**		42.00	52.00	10.00	42.00		52.00		11.00		18.58
R045053056RC	**45.00**		45.00	53.00	5.60	45.00		53.00		6.30		20.13
R045053081RC	**45.00**		45.00	53.00	8.10	45.00		53.00		9.00		16.02
R045053118RC*	**45.00**		45.00	53.00	11.80	45.00		53.00		13.00		18.58
R045055056RC	**45.00**		45.00	55.00	5.60	45.00		55.00		6.30		18.58
R045055060RC	**45.00**		45.00	55.00	6.00	45.00		55.00		7.00		18.58
R045055073RC	**45.00**		45.00	55.00	7.30	45.00		55.00		8.00		16.02
R045055080RC*	**45.00**		45.00	55.00	8.00	45.00		55.00		9.00		19.01
R045055100RC	**45.00**		45.00	55.00	10.00	45.00		55.00		11.00		22.35
R045055114RC*	**45.00**		45.00	55.00	11.40	45.00		55.00		12.50		21.22
R045057095RC	**45.00**		45.00	57.70	9.50	45.00		57.70		10.50		19.93
R045060100RC	**45.00**		45.00	60.00	10.00	45.00		60.00		11.00		17.75
R045060115RC*	**45.00**		45.00	60.00	11.50	45.00		60.00		12.50		24.60
R045065100RC	**45.00**		45.00	65.00	10.00	45.00		65.00		11.00		30.32
R048060060RC*	**48.00**		48.00	60.00	6.00	48.00		60.00		7.00		18.05
R048060100RC	**48.00**		48.00	60.00	10.00	48.00		60.00		11.00		21.12
R050057100RC*	**50.00**		50.00	57.00	10.00	50.00		57.00		11.00		21.22
R050058080RC	**50.00**		50.00	58.00	8.00	50.00		58.00		9.00		21.82
R050058114RC	**50.00**		50.00	58.00	11.40	50.00		58.00		12.50		21.82
R050060060RC	**50.00**		50.00	60.00	6.00	50.00		60.00		7.00		19.23
R050060073RC	**50.00**		50.00	60.00	7.30	50.00		60.00		8.00		21.22
R050060080RC	**50.00**		50.00	60.00	8.00	50.00		60.00		9.00		23.68
R050060100RC	**50.00**		50.00	60.00	10.00	50.00		60.00		11.00		23.68
R050060118RC	**50.00**		50.00	60.00	11.80	50.00		60.00		13.00		17.15
R050060120RC*	**50.00**		50.00	60.00	12.00	50.00		60.00		13.00		15.24
R050062095RC	**50.00**		50.00	62.70	9.50	50.00		62.70		10.50		22.12
R050065090RC	**50.00**		50.00	65.00	9.00	50.00		65.00		10.00		22.12
R050065095RC*	**50.00**		50.00	65.00	9.50	50.00		65.00		10.50		21.71
R050065100RC	**50.00**		50.00	65.00	10.00	50.00		65.00		11.00		18.18
R050065109RC	**50.00**		50.00	65.00	10.90	50.00		65.00		12.00		26.56
R050065114RC	**50.00**		50.00	65.00	11.40	50.00		65.00		12.50		37.52
R050065145RC*	**50.00**		50.00	65.00	14.50	50.00		65.00		16.00		17.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R050070120RC	**50.00**	+ 0.00 - 0.05	50.00	70.00	12.00	50.00	+ 0.00 - 0.05	70.00	+ 0.19 - 0.00	13.00	+ 0.25 - 0.00	31.15
R052062100RC*	**52.00**		52.00	62.00	10.00	52.00		62.00		11.00		27.93
R053065090RC*	**53.00**		53.00	65.00	9.00	53.00		65.00		10.00		21.26
R055063080RC	**55.00**		55.00	63.00	8.00	55.00		63.00		9.00		29.11
R055063114RC*	**55.00**		55.00	63.00	11.40	55.00		63.00		12.50		19.26
R055065060RC*	**55.00**		55.00	65.00	6.00	55.00		65.00		7.00		19.89
R055065073RC	**55.00**		55.00	65.00	7.30	55.00		65.00		8.00		25.01
R055065082RC	**55.00**		55.00	65.00	8.20	55.00		65.00		9.00		19.93
R055065100RC	**55.00**		55.00	65.00	10.00	55.00		65.00		11.00		17.15
R055065118RC	**55.00**		55.00	65.00	11.80	55.00		65.00		13.00		20.58
R055067100RC*	**55.00**		55.00	67.00	10.00	55.00		67.00		11.00		38.11
R055068100RC	**55.00**		55.00	68.00	10.00	55.00		68.00		11.00		24.64
R055070090RC	**55.00**		55.00	70.00	9.00	55.00		70.00		10.00		25.88
R055070118RC	**55.00**		55.00	70.00	11.80	55.00		70.00		13.00		22.29
R055075120RC	**55.00**		55.00	75.00	12.00	55.00		75.00		13.00		31.27
R056066065RC*	**56.00**		56.00	66.00	6.50	56.00		66.00		7.50		22.60
R056066068RC/610	**56.00**		56.00	66.00	6.80	56.00		66.00		7.50		17.15
R056066080RC*	**56.00**		56.00	66.00	8.00	56.00		66.00		9.00		22.88
R056066100RC	**56.00**		56.00	66.00	10.00	56.00		66.00		11.00		24.58
R056071100RC	**56.00**		56.00	71.00	10.00	56.00		71.00		11.00		21.18
R056071114RC	**56.00**		56.00	71.00	11.40	56.00		71.00		12.50		28.49
R060070060RC	**60.00**		60.00	70.00	6.00	60.00		70.00		7.00		18.93
R060070100RC	**60.00**		60.00	70.00	10.00	60.00		70.00		11.00		27.46
R060070114RC*	**60.00**		60.00	70.00	11.40	60.00		70.00		12.50		23.58
R060070118RC	**60.00**		60.00	70.00	11.80	60.00		70.00		13.00		20.01
R060070120RC	**60.00**		60.00	70.00	12.00	60.00		70.00		13.00		23.58
R060072100RC	**60.00**		60.00	72.00	10.00	60.00		72.00		11.00		20.01
R060073100RC*	**60.00**		60.00	73.00	10.00	60.00		73.00		11.00		30.02
R060075090RC	**60.00**		60.00	75.00	9.00	60.00		75.00		10.00		25.88
R060075100RC	**60.00**		60.00	75.00	10.00	60.00		75.00		11.00		28.84
R060075114RC	**60.00**		60.00	75.00	11.40	60.00		75.00		12.50		24.27
R060075118RC	**60.00**		60.00	75.00	11.80	60.00		75.00		13.00		30.72
R060075120RC*	**60.00**		60.00	75.00	12.00	60.00		75.00		13.00		25.45
R060075205RC*	**60.00**		60.00	75.00	20.50	60.00		75.00		22.50		42.41
R060080114RC*	**60.00**		60.00	80.00	11.40	60.00		80.00		12.50		35.56
R060080120RC	**60.00**		60.00	80.00	12.00	60.00		80.00		13.00		35.01
R063071080RC*	**63.00**		63.00	71.00	8.00	63.00		71.00		9.00		35.75
R063073060RC	**63.00**		63.00	73.00	6.00	63.00		73.00		7.00		31.60
R063073100RC*	**63.00**		63.00	73.00	10.00	63.00		73.00		11.00		28.94
R063073118RC	**63.00**		63.00	73.00	11.80	63.00		73.00		13.00		23.24
R063073120RC*	**63.00**		63.00	73.00	12.00	63.00		73.00		13.00		27.73
R063075120RC	**63.00**		63.00	75.00	12.00	63.00		75.00		13.00		25.45
R063078100RC	**63.00**		63.00	78.00	10.00	63.00		78.00		11.00		22.29
R063078114RC	**63.00**		63.00	78.00	11.40	63.00		78.00		12.50		32.28
R063083120RC	**63.00**		63.00	83.00	12.00	63.00		83.00		13.00		25.45
R063083135RC*	**63.00**		63.00	83.00	13.50	63.00		83.00		14.50		25.45

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RC series - AU 93A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R063083150RC*	**63.00**	-.00.0/-0.05	63.00	83.00	15.00	63.00	-.000/-.005	83.00	+0.19 -0.00	16.00	+0.30 -0.00	25.45
R065075060RC*	**65.00**	+0.00 -0.06	65.00	75.00	6.00	65.00	+0.00 -0.06	75.00		7.00		23.60
R065075077RC	**65.00**		65.00	75.00	7.70	65.00		75.00		9.00		20.58
R065075100RC	**65.00**		65.00	75.00	10.00	65.00		75.00		11.00		22.29
R065075114RC*	**65.00**		65.00	75.00	11.40	65.00		75.00		12.50		25.45
R065075118RC	**65.00**		65.00	75.00	11.80	65.00		75.00		13.00		19.46
R065075120RC*	**65.00**		65.00	75.00	12.00	65.00		75.00		13.00		43.53
R065077095RC	**65.00**		65.00	77.70	9.50	65.00		77.70		10.50		23.87
R065078100RC	**65.00**		65.00	78.00	10.00	65.00		78.00		11.00		27.54
R065080090RC	**65.00**		65.00	80.00	9.00	65.00		80.00		10.00		39.15
R065080118RC	**65.00**		65.00	80.00	11.80	65.00		80.00		13.00		39.15
R065085120RC	**65.00**		65.00	85.00	12.00	65.00		85.00		13.00		44.24
R067077060RC	**67.00**		67.00	77.00	6.00	67.00		77.00		7.00		23.87
R068078120RC	**68.00**		68.00	78.00	12.00	68.00		78.00		13.00		33.83
R070078080RC*	**70.00**		70.00	78.00	8.00	70.00		78.00		9.00		29.45
R070078114RC*	**70.00**		70.00	78.00	11.40	70.00		78.00		12.50		26.61
R070080060RC*	**70.00**		70.00	80.00	6.00	70.00		80.00	+0.22 -0.00	7.00		32.80
R070080065RC/610	**70.00**		70.00	80.00	6.50	70.00		80.00		7.50		33.88
R070080080RC	**70.00**		70.00	80.00	8.00	70.00		80.00		9.00		26.61
R070080114RC*	**70.00**		70.00	80.00	11.40	70.00		80.00		12.50		26.61
R070080118RC	**70.00**		70.00	80.00	11.80	70.00		80.00		13.00		25.20
R070080120RC*	**70.00**		70.00	80.00	12.00	70.00		80.00		13.00		32.69
R070082087RC	**70.00**		70.00	82.00	8.70	70.00		82.00		9.60		25.20
R070082100RC	**70.00**		70.00	82.00	10.00	70.00		82.00		11.00		25.20
R070083100RC	**70.00**		70.00	83.00	10.00	70.00		83.00		11.00		22.06
R070085090RC	**70.00**		70.00	85.00	9.00	70.00		85.00		10.00		26.51
R070085100RC	**70.00**		70.00	85.00	10.00	70.00		85.00		11.00		24.84
R070085114RC	**70.00**		70.00	85.00	11.40	70.00		85.00		12.50		24.84
R070085120RC	**70.00**		70.00	85.00	12.00	70.00		85.00		13.00		22.06
R070085205RC*	**70.00**		70.00	85.00	20.50	70.00		85.00		22.50		28.49
R070090120RC	**70.00**		70.00	90.00	12.00	70.00		90.00		13.00		36.12
R075083115RC*	**75.00**		75.00	83.00	11.50	75.00		83.00		12.50		21.40
R075085060RC*	**75.00**		75.00	85.00	6.00	75.00		85.00		7.00		21.89
R075085087RC*	**75.00**		75.00	85.00	8.70	75.00		85.00		9.50		26.61
R075085114RC*	**75.00**		75.00	85.00	11.40	75.00		85.00		12.50		21.04
R075085118RC	**75.00**		75.00	85.00	11.80	75.00		85.00		13.00		22.29
R075085120RC	**75.00**		75.00	85.00	12.00	75.00		85.00		13.00		26.61
R075088100RC	**75.00**		75.00	88.00	10.00	75.00		88.00		11.00		24.51
R075090090RC	**75.00**		75.00	90.00	9.00	75.00		90.00		10.00		28.01
R075090114RC	**75.00**		75.00	90.00	11.40	75.00		90.00		12.50		26.61
R075095120RC	**75.00**		75.00	95.00	12.00	75.00		95.00		13.00		37.08
R077087120RC*	**77.00**	+0.00 -0.09	77.00	87.00	12.00	77.00		87.00		13.00		37.05
R078086085RC*	**78.00**		78.00	86.00	8.50	78.00		86.00		9.50		27.90
R078086114RC*	**78.00**		78.00	86.00	11.40	78.00		86.00		12.50		27.90
R080088114RC*	**80.00**		80.00	88.00	11.40	80.00		88.00		12.50		27.90
R080090060RC	**80.00**		80.00	90.00	6.00	80.00		90.00		7.00		30.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R080090090RC*	**80.00**	+ 0.00 - 0.09	80.00	90.00	9.00	80.00	+ 0.00 - 0.09	90.00	+ 0.22 - 0.00	10.00	+ 0.25 - 0.00	24.60
R080090100RC	**80.00**		80.00	90.00	10.00	80.00		90.00		11.00		25.30
R080090118RC	**80.00**		80.00	90.00	11.80	80.00		90.00		13.00		29.30
R080090120RC	**80.00**		80.00	90.00	12.00	80.00		90.00		13.00		33.91
R080092087RC	**80.00**		80.00	92.00	8.70	80.00		92.00		9.60		29.60
R080093100RC	**80.00**		80.00	93.00	10.00	80.00		93.00		11.00		28.96
R080095090RC	**80.00**		80.00	95.00	9.00	80.00		95.00		10.00		31.57
R080095100RC	**80.00**		80.00	95.00	10.00	80.00		95.00		11.00		29.79
R080095114RC	**80.00**		80.00	95.00	11.40	80.00		95.00		12.50		50.28
R080095118RC	**80.00**		80.00	95.00	11.80	80.00		95.00		13.00		33.16
R080095120RC	**80.00**		80.00	95.00	12.00	80.00		95.00		13.00		43.47
R080100100RC*	**80.00**		80.00	100.00	10.00	80.00		100.00		11.00		39.60
R080100120RC	**80.00**		80.00	100.00	12.00	80.00		100.00		13.00		42.81
R080100145RC	**80.00**		80.00	100.00	14.50	80.00		100.00		16.00		42.26
R080100150RC*	**80.00**	+ 0.00 - 0.13	80.00	100.00	15.00	80.00	+ 0.00 - 0.13	100.00		16.00		64.12
R080110164RC*	**80.00**		80.00	110.00	16.40	80.00		110.00		18.00		72.82
R085093100RC	**85.00**		85.00	93.00	10.00	85.00		93.00		11.00		23.87
R085093115RC*	**85.00**		85.00	93.00	11.50	85.00		93.00		12.50		44.39
R085093120RC*	**85.00**		85.00	93.00	12.00	85.00		93.00		13.00		43.98
R085095120RC*	**85.00**		85.00	95.00	12.00	85.00		95.00		13.00		42.64
R085100090RC	**85.00**		85.00	100.00	9.00	85.00		100.00		10.00		42.06
R085100118RC	**85.00**		85.00	100.00	11.80	85.00		100.00		13.00		37.29
R085100120RC*	**85.00**		85.00	100.00	12.00	85.00		100.00		13.00		51.55
R085105120RC	**85.00**		85.00	105.00	12.00	85.00		105.00		13.00		39.15
R090098080RC*	**90.00**		90.00	98.00	8.00	90.00		98.00		9.00		38.60
R090098109RC*	**90.00**		90.00	98.00	10.90	90.00		98.00		12.00		37.21
R090098115RC*	**90.00**		90.00	98.00	11.50	90.00		98.00		12.50		34.82
R090100068RC	**90.00**		90.00	100.00	6.80	90.00		100.00		7.50		33.16
R090100090RC	**90.00**		90.00	100.00	9.00	90.00		100.00		10.00		33.16
R090100100RC	**90.00**		90.00	100.00	10.00	90.00		100.00	+ 0.25 - 0.00	11.00		22.62
R090100115RC*	**90.00**		90.00	100.00	11.50	90.00		100.00		12.50		30.30
R090100118RC	**90.00**		90.00	100.00	11.80	90.00		100.00		13.00		33.16
R090102087RC	**90.00**		90.00	102.00	8.70	90.00		102.00		9.60		33.53
R090105090RC	**90.00**		90.00	105.00	9.00	90.00		105.00		10.00		31.47
R090105100RC	**90.00**		90.00	105.00	10.00	90.00		105.00		11.00		35.66
R090105114RC	**90.00**		90.00	105.00	11.40	90.00		105.00		12.50		30.80
R090105115RC*	**90.00**		90.00	105.00	11.50	90.00		105.00		12.50		35.98
R090105120RC	**90.00**		90.00	105.00	12.00	90.00		105.00		13.00		23.21
R090110100RC*	**90.00**		90.00	110.00	10.00	90.00		110.00		11.00		30.01
R090110120RC	**90.00**		90.00	110.00	12.00	90.00		110.00		13.00		36.36
R090110130RC	**90.00**		90.00	110.00	13.00	90.00		110.00		14.00		22.44
R090110150RC*	**90.00**		90.00	110.00	15.00	90.00		110.00		16.00		19.60
R092107114RC*	**92.00**		92.00	107.00	11.50	92.00		107.00		12.50		52.85
R095105085RC*	**95.00**		95.00	105.00	8.50	95.00		105.00		9.50		41.27
R09510512ORC*	**95.00**		95.00	105.00	12.00	95.00		105.00		13.00		35.40
R095110090RC	**95.00**		95.00	110.00	9.00	95.00		110.00		10.00		36.36

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RC series - AU 93A

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R095110100RC	**95.00**	+ 0.00 - 0.13	95.00	110.00	10.00	95.00	+ 0.00 - 0.13	110.00	+ 0.25 - 0.00	11.00	+ 0.25 - 0.00	36.36
R095110120RC*	**95.00**		95.00	110.00	12.00	95.00		110.00		13.00		34.60
R095115120RC	**95.00**		95.00	115.00	12.00	95.00		115.00		13.00		34.13
R096104109RC*	**96.00**		96.00	104.00	10.90	96.00		104.00		12.00		34.51
R100110109RC	**100.00**		100.00	110.00	10.90	100.00		110.00		12.50		35.34
R100110115RC*	**100.00**		100.00	110.00	11.50	100.00		110.00		12.50		38.90
R100115090RC	**100.00**		100.00	115.00	9.00	100.00		115.00		10.00		39.00
R100115118RC	**100.00**		100.00	115.00	11.80	100.00		115.00		13.00		41.36
R100115120RC	**100.00**		100.00	115.00	12.00	100.00		115.00		13.00		39.00
R100120115RC*	**100.00**		100.00	120.00	11.50	100.00		120.00		12.50		28.44
R100120118RC	**100.00**		100.00	120.00	11.80	100.00		120.00		13.00		52.08
R100120120RC	**100.00**		100.00	120.00	12.00	100.00		120.00		13.00		62.18
R100120145RC	**100.00**		100.00	120.00	14.50	100.00		120.00		16.00		52.08
R100120150RC*	**100.00**		100.00	120.00	15.00	100.00		120.00		16.00		60.69
R105113100RC*	**105.00**		105.00	113.00	10.00	105.00		113.00		11.00		46.37
R105113115RC*	**105.00**		105.00	113.00	11.50	105.00		113.00		12.50		50.04
R105115115RC	**105.00**		105.00	115.00	11.50	105.00		115.00		12.50		37.22
R105115132RC*	**105.00**		105.00	115.00	13.20	105.00		115.00		14.50		40.05
R105120100RC	**105.00**		105.00	120.00	10.00	105.00		120.00		11.00		28.44
R105120145RC	**105.00**		105.00	120.00	14.50	105.00		120.00		16.00		46.05
R108123109RC*	**108.00**		108.00	123.00	10.90	108.00		123.00		12.00		49.65
R110118115RC*	**110.00**		110.00	118.00	11.50	110.00		118.00		12.50		47.36
R110125090RC	**110.00**		110.00	125.00	9.00	110.00		125.00		10.00		49.88
R110125120RC*	**110.00**		110.00	125.00	12.00	110.00		125.00		13.00		54.80
R110125145RC	**110.00**		110.00	125.00	14.50	110.00		125.00		16.00		64.32
R110130118RC	**110.00**		110.00	130.00	11.80	110.00		130.00		13.00		71.20
R110130145RC	**110.00**		110.00	130.00	14.50	110.00		130.00		16.00		71.20
R110130150RC*	**110.00**		110.00	130.00	15.00	110.00		130.00		16.00		85.19
R110135145RC	**110.00**		110.00	135.00	14.50	110.00		135.00		16.00		87.80
R112125090RC*	**112.00**		112.00	125.00	9.00	112.00		125.00		10.00		47.39
R113123085RC*	**113.00**		113.00	123.00	8.50	113.00		123.00		9.50		54.75
R115125120RC*	**115.00**		115.00	125.00	12.00	115.00		125.00		13.00		28.60
R115125140RC*	**115.00**		115.00	125.00	14.00	115.00		125.00		15.00		60.06
R115130090RC	**115.00**		115.00	130.00	9.00	115.00		130.00		10.00		58.52
R115130109RC	**115.00**		115.00	130.00	10.90	115.00		130.00		12.00		58.52
R115130145RC	**115.00**		115.00	130.00	14.50	115.00		130.00		16.00		58.52
R120130109RC	**120.00**		120.00	130.00	10.90	120.00		130.00		12.00		62.23
R120130115RC	**120.00**		120.00	130.00	11.50	120.00		130.00		12.50		44.13
R120130140RC*	**120.00**		120.00	130.00	14.00	120.00		130.00		15.00		66.80
R120135090RC	**120.00**		120.00	135.00	9.00	120.00		135.00		10.00		75.30
R120135150RC	**120.00**		120.00	135.00	15.00	120.00		135.00		16.00		25.53
R120140120RC	**120.00**		120.00	140.00	12.00	120.00		140.00		13.00		88.39
R120140145RC	**120.00**		120.00	140.00	14.50	120.00		140.00		16.00		88.39
R120140150RC	**120.00**		120.00	140.00	15.00	120.00		140.00		16.00		27.01
R125133100RC	**125.00**		125.00	133.00	10.00	125.00		133.00		11.00		61.92
R125133115RC*	**125.00**		125.00	133.00	11.50	125.00		133.00		12.50		64.20

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

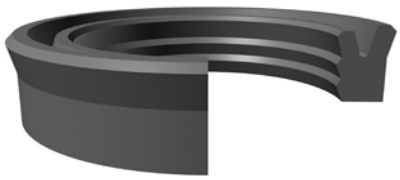
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R125140090RC	**125.00**	+ 0.00 - 0.13	125.00	140.00	9.00	125.00	+ 0.00 - 0.13	140.00	+ 0.25 - 0.00	10.00	+ 0.25 - 0.00	75.30
R125145120RC	**125.00**		125.00	145.00	12.00	125.00		145.00		13.00		89.76
R125145145RC	**125.00**		125.00	145.00	14.50	125.00		145.00		16.00		77.58
R125145145RC/30K	**125.00**		125.00	145.00	14.50	125.00		145.00		16.00		190.32
R125145150RC*	**125.00**		125.00	145.00	15.00	125.00		145.00		16.00		27.01
R125150125RC	**125.00**		125.00	150.00	12.50	125.00		150.00		14.00		89.76
R127140115RC*	**127.00**		127.00	140.00	11.50	127.00		140.00		12.50		80.69
R130138115RC*	**130.00**		130.00	138.00	11.50	130.00		138.00		12.50		87.00
R130140145RC*	**130.00**		130.00	140.00	14.50	130.00		140.00		16.00		68.14
R130145090RC	**130.00**		130.00	145.00	9.00	130.00		145.00		10.00		49.29
R130145100RC/30K	**130.00**		130.00	145.00	10.00	130.00		145.00		11.00		152.40
R130145120RC/30K*	**130.00**		130.00	145.00	12.00	130.00		145.00		13.00		131.30
R130145150RC*	**130.00**		130.00	145.00	15.00	130.00		145.00		16.00		84.43
R130150120RC	**130.00**		130.00	150.00	12.00	130.00		150.00		13.00		94.08
R130150145RC	**130.00**		130.00	150.00	14.50	130.00		150.00		16.00		81.31
R130150150RC*	**130.00**		130.00	150.00	15.00	130.00		150.00		16.00		39.02
R132142085RC*	**132.00**		132.00	142.00	8.50	132.00		142.00		9.50		91.52
R132157132RC*	**132.50**		132.50	157.50	13.20	132.50		157.50		14.50		94.18
R135145120RC*	**135.00**		135.00	145.00	12.00	135.00		145.00		13.00		91.20
R135150115RC	**135.00**		135.00	150.00	11.50	135.00		150.00		12.50		89.25
R140148115RC*	**140.00**		140.00	148.00	11.50	140.00		148.00		12.50		74.62
R140150109RC	**140.00**		140.00	150.00	10.90	140.00		150.00		12.00		72.84
R140150115RC	**140.00**		140.00	150.00	11.50	140.00		150.00		12.50		83.05
R140155090RC	**140.00**		140.00	155.00	9.00	140.00		155.00		10.00		86.41
R140160118RC	**140.00**		140.00	160.00	11.80	140.00		160.00		13.00		86.19
R140160145RC	**140.00**		140.00	160.00	14.50	140.00		160.00		16.00		86.19
R140160150RC*	**140.00**		140.00	160.00	15.00	140.00		160.00		16.00		40.51
R140170180RC*	**140.00**		140.00	170.00	18.00	140.00		170.00		19.00		62.88
R150165090RC	**150.00**		150.00	165.00	9.00	150.00		165.00		10.00		102.35
R150165100RC/30K	**150.00**		150.00	165.00	10.00	150.00		165.00		11.00		226.88
R150170120RC	**150.00**		150.00	170.00	12.00	150.00		170.00		13.00		107.24
R150170120RC/30K	**150.00**		150.00	170.00	12.00	150.00		170.00		13.00		241.52
R150170132RC*	**150.00**		150.00	170.00	13.20	150.00		170.00		14.50		94.48
R150170145RC	**150.00**		150.00	170.00	14.50	150.00		170.00		16.00		107.24
R150170150RC*	**150.00**		150.00	170.00	15.00	150.00		170.00		16.00		333.00
R150180180RC*	**150.00**		150.00	180.00	18.00	150.00		180.00		19.00		110.60
R155163115RC*	**155.00**		155.00	163.00	11.50	155.00		163.00		12.50		92.82
R155170145RC*	**155.00**		155.00	170.00	14.50	155.00		170.00		16.00		101.04
R160170115RC*	**160.00**		160.00	170.00	11.50	160.00		170.00		12.50		86.94
R160175090RC	**160.00**		160.00	175.00	9.00	160.00		175.00		10.00		109.60
R160175109RC	**160.00**		160.00	175.00	10.90	160.00		175.00		12.00		109.60
R160180120RC	**160.00**		160.00	180.00	12.00	160.00		180.00		13.00		115.00
R160180145RC	**160.00**		160.00	180.00	14.50	160.00		180.00		16.00		99.47
R160180150RC*	**160.00**		160.00	180.00	15.00	160.00		180.00		16.00		78.99
R160185150RC	**160.00**		160.00	185.00	15.00	160.00		185.00		16.00		81.40
R160185182RC*	**160.00**		160.00	185.00	18.20	160.00		185.00		20.00		205.61

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

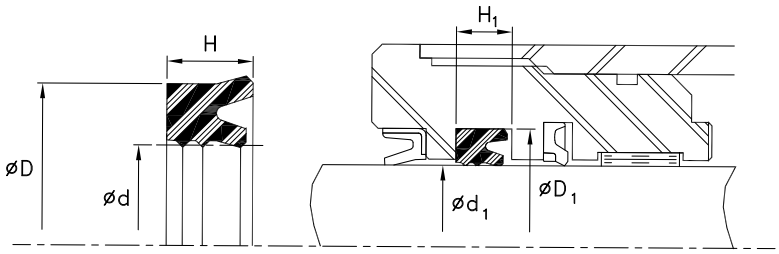
RC series - AU 93A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R165175120RC*	**165.00**	+ 0.00 - 0.13	165.00	175.00	12.00	165.00	+ 0.00 - 0.13	175.00	+0.25/- 0.00	13.00	+ 0.25 - 0.00	78.50
R165184130RC*	**165.00**		165.00	184.00	13.00	165.00		184.00	+ 0.29 - 0.00	14.00		115.03
R170178115RC*	**170.00**		170.00	178.00	11.50	170.00		178.00		12.50		99.21
R170190145RC	**170.00**		170.00	190.00	14.50	170.00		190.00		16.00		121.44
R170195160RC/30K	**170.00**		170.00	195.00	16.00	170.00		195.00		17.00		319.20
R170200180RC*	**170.00**		170.00	200.00	18.00	170.00		200.00		19.00		165.84
R180195115RC*	**180.00**		180.00	195.00	11.50	180.00		195.00		12.50		104.70
R180200118RC	**180.00**		180.00	200.00	11.80	180.00		200.00		13.00		124.72
R180200150RC	**180.00**		180.00	200.00	15.00	180.00		200.00		16.00		124.60
R180205160RC/30K	**180.00**		180.00	205.00	16.00	180.00		205.00		17.00		356.88
R180205182RC/AE/30K	**180.00**		180.00	205.00	18.20	180.00		205.00		20.00		442.40
R180210180RC*	**180.00**		180.00	210.00	18.00	180.00		210.00		19.00		119.03
R185195120RC*	**185.00**		185.00	195.00	12.00	185.00		195.00		13.00		122.60
R185200109RC*	**185.00**		185.00	200.00	10.90	185.00		200.00		12.00		124.72
R190210150RC*	**190.00**		190.00	210.00	15.00	190.00		210.00		16.00		132.80
R190215160RC/30K	**190.00**		190.00	215.00	16.00	190.00		215.00		17.00		364.64
R200220120RC*	**200.00**		200.00	220.00	12.00	200.00		220.00		13.00		135.59
R200220145RC	**200.00**		200.00	220.00	14.50	200.00		220.00		16.00		135.59
R200225160RC/30K	**200.00**		200.00	225.00	16.00	200.00		225.00		17.00		425.43
R200225182RC*	**200.00**		200.00	225.00	18.20	200.00		225.00		20.00		191.72
R200225182RC/AE/30K	**200.00**		200.00	225.00	18.20	200.00		225.00		20.00		391.92
R205220125RC*	**205.00**		205.00	220.00	12.50	205.00		220.00		13.50		143.26
R210235160RC/30K	**210.00**		210.00	235.00	16.00	210.00		235.00		17.00		466.08
R220240145RC*	**220.00**		220.00	240.00	14.50	220.00		240.00		16.00		168.20
R220250180RC*	**220.00**		220.00	250.00	18.00	220.00		250.00		20.00		171.40
R220250227RC*	**220.00**		220.00	250.00	22.70	220.00		250.00		25.00		161.40
R230260180RC*	**230.00**		230.00	260.00	18.00	230.00		260.00	+ 0.32 - 0.00	20.00		224.80
R230260227RC*	**230.00**		230.00	260.00	22.70	230.00		260.00		25.00		240.55
R240265190RC/DS117*	**240.00**		240.00	265.00	19.00	240.00		265.00		20.00		268.98
R270300190RC/30K*	**270.00**		270.00	300.00	19.00	270.00		300.00		20.00		778.24
R280310180RC*	**280.00**		280.00	310.00	18.00	280.00		310.00		20.00		146.62
R280310240RC/30K	**280.00**		280.00	310.00	24.00	280.00		310.00		25.00		822.00
R330350180RC*	**330.00**		330.00	350.00	18.00	330.00		350.00		20.00		424.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-50°F to +230°F (-45°C to +110°C)	≤3626 psi (≤250 bar)	<1.6 ft/s (0.5 m/s)



This multi-lip rod seal combines the sealing capabilities of a lip-type, U-Cup seal along with the multi-lip sealing effectiveness of compression-type stacked packings. The multiple sealing edges insure dry-sealing performance while minimizing friction.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

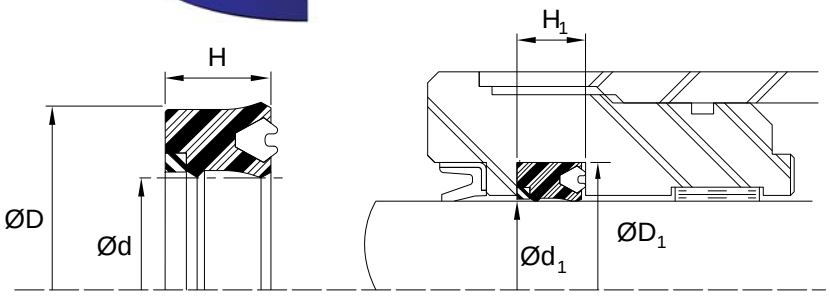
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R012019050RC/3L*	**12.00**	-.016 -.059	12.00	19.00	5.00	12.00	-.016 -.059	19.00	-.070 -.070	5.60	-.250 -.000	14.81
R014021050RC/3L*	**14.00**	↓	14.00	21.00	5.00	14.00	↓	21.00	↓	5.60	↓	14.81
R018025050RC/3L*	**18.00**		18.00	25.00	5.00	18.00		25.00		5.60		15.03
R022029050RC/3L	**22.00**	-.020 -.072	22.00	29.00	5.00	22.00	-.020 -.072	29.00	↓	5.60		15.03
R028036057RC/3L	**28.00**		28.00	36.00	5.70	28.00		36.00	-.080 -.080	6.30		15.14
R036044057RC/3L	**36.00**	-.025 -.087	36.00	44.00	5.70	36.00	-.025 -.087	44.00		6.30		15.14
R045053057RC/3L*	**45.00**		45.00	53.00	5.70	45.00		53.00	-.010 -.010	6.30		15.33
R056066065RC/3L	**56.00**	-.030 -.104	56.00	66.00	6.50	56.00	-.030 -.104	66.00		7.50		15.79
R070080065RC/3L*	**70.00**		70.00	80.00	6.50	70.00		80.00	↓	7.50		16.10
R090100065RC/3L*	**90.00**	-.036 -.123	90.00	100.00	6.50	90.00	-.036 -.123	100.00	-.011/-.011	7.50		26.34
R110125096RC/3L*	**110.00**		110.00	125.00	9.60	110.00		125.00	-.013 -.013	10.60		38.14
R140155096RC/3L*	**140.00**	-.043/-.143	140.00	155.00	9.60	140.00	-.043/-.143	155.00	↓	10.60	↓	45.36

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RE - Rod seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Polyacetal/Nitrile	-50°F to +230°F (-46°C to +110°C)	≤7500 psi (≤517 bar)	<1.5 ft/s (0.46 m/s)



This high-pressure rod seals incorporates both an acetal anti-extrusion ring for pressure protection as well as a unique profiled energizer to ensure lip loading in all conditions. Twin-lip design insures dry rod sealing and added stability in the housing.

Alternate Materials : For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

MAXIMUM EXTRUSION GAP			
The largest gap dimension appearing in operation on the non-pressurised side :			
Gap	**Pressure**	**Gap**	**Pressure**
1 mm	≤2400 psi (≤160 bar)	0.40 mm	≤7500 psi (≤500 bar)
0.80 mm	≤3750 psi (≤250 bar)	0.25 mm	≤10 000 psi (≤700 bar)
0.60 mm	≤6000 psi (≤400 bar)		

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R030040073RE	**30.00**	+ 0.00 - 0.04	30.00	40.00	7.30	30.00	+ 0.00 - 0.04	40.00	+ 0.10 - 0.00	8.00	+ 0.30 - 0.00	29.52
R035045100RE	**35.00**		35.00	45.00	10.00	30.00		45.00		11.00		81.60
R035050095RE	**35.00**		35.00	50.00	9.50	35.00		50.00		10.50		55.40
R036046073RE*	**36.00**		36.00	46.00	7.30	36.00		46.00		8.00		55.40
R040050073RE	**40.00**		40.00	50.00	7.30	40.00		50.00		8.00		58.99
R040050100RE*	**40.00**		40.00	50.00	10.00	40.00		50.00		11.00		62.30
R045055073RE	**45.00**		45.00	55.00	7.30	45.00		55.00	+ 0.12 - 0.00	8.00		63.89
R045055100RE	**45.00**		45.00	55.00	10.00	45.00		55.00		11.00		118.73
R045060114RE	**45.00**		45.00	60.00	11.40	45.00		60.00		12.50		65.61
R050060073RE	**50.00**		50.00	60.00	7.30	50.00		60.00		8.00		68.68

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R050060100RE	**50.00**	+ 0.00 - 0.04	50.00	60.00	10.00	50.00	+ 0.00 - 0.04	60.00	+ 0.12 - 0.00	11.00	+ 0.30 - 0.00	69.40
R050065100RE*	**50.00**		50.00	65.00	10.00	50.00		65.00		11.00		71.20
R050065114RE	**50.00**		50.00	65.00	11.40	50.00		65.00		12.50		70.68
R055070090RE*	**55.00**		55.00	70.00	9.00	55.00		70.00		10.00		72.60
R055070114RE	**55.00**		55.00	70.00	11.40	55.00		70.00		12.50		73.12
R056071114RE	**56.00**		56.00	71.00	11.40	56.00		71.00		12.50		74.13
R060073130RE	**60.00**		60.00	73.00	13.00	60.00		73.00		14.00		119.79
R060075114RE	**60.00**		60.00	75.00	11.40	60.00		75.00		12.50		78.04
R063075087RE/652	**63.00**		63.00	75.00	8.70	63.00		75.00		9.60		79.10
R063078114RE	**63.00**		63.00	78.00	11.40	63.00		78.00		12.50		80.90
R063083118RE	**63.00**		63.00	83.00	11.80	63.00		83.00	+ 0.14 - 0.00	13.00		82.78
R065075100RE*	**65.00**		65.00	75.00	10.00	65.00		75.00		11.00		84.17
R065080100RE	**65.00**		65.00	80.00	10.00	65.00		80.00		11.00		84.60
R065080114RE	**65.00**		65.00	80.00	11.40	65.00		80.00		12.50		86.73
R065080130RE*	**65.00**		65.00	80.00	13.00	65.00		80.00		14.00		88.40
R070083130RE	**70.00**		70.00	83.00	13.00	70.00		83.00		14.00		90.65
R070085114RE	**70.00**		70.00	85.00	11.40	70.00		85.00		12.50		87.83
R075088130RE	**75.00**		75.00	88.00	13.00	75.00		88.00		14.00		71.76
R075090100RE*	**75.00**		75.00	90.00	10.00	75.00		90.00		11.00		73.73
R075090120RE*	**75.00**		75.00	90.00	12.00	75.00		90.00		13.00		74.24
R075090130RE*	**75.00**		75.00	90.00	13.00	75.00		90.00		14.00		78.36
R075095114RE*	**75.00**		75.00	95.00	11.40	75.00		95.00		12.50		84.90
R075095146RE*	**75.00**		75.00	95.00	14.60	75.00		95.00		16.00		89.99
R080093130RE*	**80.00**		80.00	93.00	13.00	80.00		93.00		14.00		94.60
R080095114RE	**80.00**		80.00	95.00	11.40	80.00		95.00		12.50		97.10
R080095130RE	**80.00**		80.00	95.00	13.00	80.00		95.00		14.00		104.96
R085100118RE*	**85.00**		85.00	100.00	11.80	85.00		100.00		13.00		108.60
R085100130RE	**85.00**		85.00	100.00	13.00	85.00		100.00		14.00		103.02
R085105146RE*	**85.00**		85.00	105.00	14.60	85.00		105.00		16.00		105.40
R090105114RE	**90.00**		90.00	105.00	11.40	90.00		105.00		12.50		106.29
R090105130RE	**90.00**		90.00	105.00	13.00	90.00		105.00		14.00		110.99
R090105130RE/NYOIL*	**90.00**		90.00	105.00	13.00	90.00		105.00		14.00		129.64
R090110146RE*	**90.00**		90.00	110.00	14.60	90.00		110.00		16.00		127.68
R095110120RE	**95.00**		95.00	110.00	12.00	95.00		110.00		13.00		126.80
R095110130RE	**95.00**		95.00	110.00	13.00	95.00		110.00		14.00		111.11
R095115146RE*	**95.00**		95.00	115.00	14.60	95.00		115.00		16.00		113.44
R100115130RE	**100.00**		100.00	115.00	13.00	100.00		115.00		14.00		115.36
R100120146RE	**100.00**		100.00	120.00	14.60	100.00		120.00		16.00		116.07
R105120120RE*	**105.00**		105.00	120.00	12.00	105.00		120.00		13.00		118.93
R105120130RE*	**105.00**		105.00	120.00	13.00	105.00		120.00		14.00		119.36
R105120148RE/652	**105.00**		105.00	120.00	14.80	105.00		120.00		16.00		113.40
R105125146RE*	**105.00**		105.00	125.00	14.60	105.00		125.00		16.00		119.99
R110125130RE	**110.00**		110.00	125.00	13.00	110.00		125.00		14.00		120.92
R110130130RE	**110.00**		110.00	130.00	13.00	110.00		130.00		14.00		120.36
R110130146RE	**110.00**		110.00	130.00	14.60	110.00		130.00	+ 0.16 - 0.00	16.00		125.34
R115135146RE	**115.00**		115.00	135.00	14.60	115.00		135.00		16.00		132.32

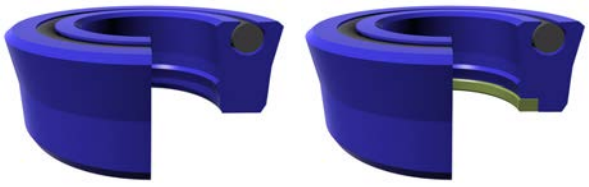
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RE series - AU/POM/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R120135146RE	**120.00**	+ 0.00 - 0.04	120.00	135.00	14.60	120.00	+ 0.00 - 0.04	135.00	+ 0.16 - 0.00	16.00	+ 0.30 - 0.00	134.96
R120140130RE	**120.00**		120.00	140.00	13.00	120.00		140.00		14.00		142.54
R120140146RE*	**120.00**		120.00	140.00	14.60	120.00		140.00		16.00		146.98
R125145146RE	**125.00**		125.00	145.00	14.60	125.00		145.00		16.00		156.76
R130145130RE	**130.00**		130.00	145.00	13.00	130.00		145.00		14.00		136.49
R130150146RE	**130.00**		130.00	150.00	14.60	130.00		150.00		16.00		158.46
R140155130RE*	**140.00**		140.00	155.00	13.00	140.00		155.00		14.00		152.36
R140160130RE	**140.00**		140.00	160.00	13.00	140.00		160.00		14.00		140.00
R140160146RE	**140.00**		140.00	160.00	14.60	140.00		160.00		16.00		194.88
R150165145RE/652	**150.00**		150.00	165.00	14.50	150.00		165.00		15.50		183.40
R150170146RE*	**150.00**		150.00	170.00	14.60	150.00		170.00		16.00		199.99
R160180146RE	**160.00**		160.00	180.00	14.60	160.00		180.00		16.00		229.60
R160185146RE	**160.00**		160.00	185.00	14.60	160.00		185.00		16.00		176.18
R170185146RE/652*	**170.00**		170.00	185.00	14.60	170.00		185.00		16.00		213.28
R180200146RE	**180.00**		180.00	200.00	14.60	180.00		200.00		16.00		200.27
R190215182RE*	**190.00**		190.00	215.00	18.20	190.00		215.00		20.00		269.97
R200220146RE	**200.00**		200.00	220.00	14.60	200.00		220.00		16.00		226.18
R200230227RE*	**200.00**		200.00	230.00	22.70	200.00		230.00		25.00		285.51
R215235146RE*	**215.00**		215.00	235.00	14.60	215.00		235.00		16.00		238.08
R260280164RE/652	**260.00**		260.00	280.00	16.40	260.00		280.00		18.00		311.34
R380405180RE/652	**380.00**		380.00	405.00	18.00	380.00		405.00		20.00		651.40

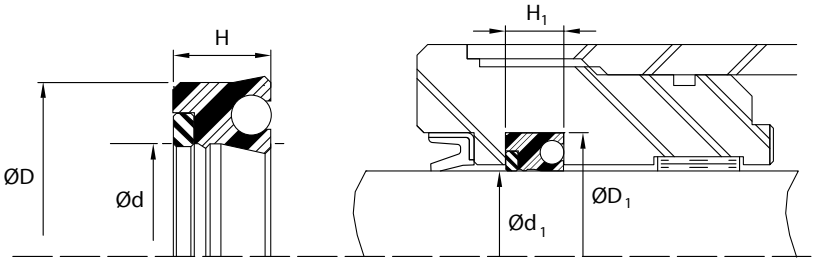
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range	Pressure Range	Surface Speed
30000 Polyurethane AU 94/ Nyloil/Fluorocarbon	-31 °F to +250 °F (-35 °C to +121 °C)	≤10 000 psi (≤689 bar)	< 1.6 ft/s (0.5 m/s)

/AE : with anti-extrusion ring



The **BD-style** profile is a non-symmetrical rod seal with a rectangular cross-section for stability in the gland. An O-ring energizer maintains sealing contact under low-pressure or vacuum conditions. Its beveled sealing lip effectively wipes fluid, while a secondary stabilizing lip improves fit and overall sealing performance. Made from durable urethane materials, this profile offers long life, extrusion resistance, low compression set, and reliable sealing even at zero pressure. It can be used as a standalone rod seal or paired with a buffer seal for demanding applications.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

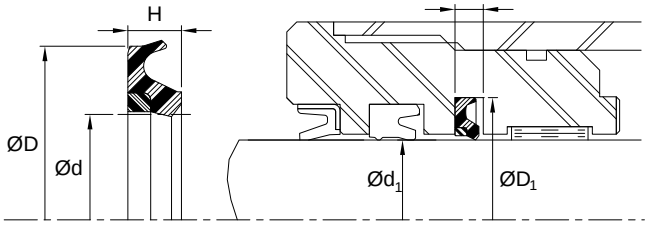
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R085100090BD/30K/V*	**85.00**	+0.00/-0.09	85.00	100.00	9.00	85.00	+0.00/-0.09	100.00	+0.16 -0.00	10.00	+0.30 -0.00	173.50
R100120114BD/AE	**100.00**	+0.00 -0.13	100.00	120.00	11.40	100.00	+0.00 -0.13	120.00		12.50		154.20
R110130120BD/30K/V*	**110.00**		110.00	130.00	12.00	110.00		130.00		13.00		325.19
R130145100BD/30K/V	**130.00**		130.00	145.00	10.00	130.00		145.00		11.00		302.50
R130150120BD/30K/V*	**130.00**		130.00	150.00	12.00	130.00		150.00		13.00		325.19
R140160120BD/30K/V*	**140.00**		140.00	160.00	12.00	140.00		160.00		13.00		345.20
R150170120BD/30K/V*	**150.00**		150.00	170.00	12.00	150.00		170.00		13.00		360.21
R160180120BD/30K/V	**160.00**		160.00	180.00	12.00	160.00		180.00		13.00		365.92
R170190120BD/30K/V*	**170.00**		170.00	190.00	12.00	170.00		190.00		13.00		393.48
R180205160BD/30K/V*	**180.00**		180.00	205.00	16.00	180.00		205.00	+0.18 -0.00	17.00		501.83
R200225160BD/30K/V*	**200.00**		200.00	225.00	16.00	200.00		225.00		17.00		579.04
R210235150BD/30K/V*	**210.00**		210.00	235.00	15.00	210.00		235.00		16.00		563.52
R220245150BD/30K/V*	**220.00**		220.00	245.00	15.00	220.00		245.00		16.00		585.95
R230260190BD/30K/V	**230.00**		230.00	260.00	19.00	230.00		260.00	+0.21 -0.00	20.00		740.26
R250280190BD/30K/V	**250.00**		250.00	280.00	19.00	250.00		280.00		20.00		747.29
R260290190BD/30K/V*	**260.00**		260.00	290.00	19.00	260.00		290.00		20.00		774.21
R300330190BD/30K/V	**300.00**		300.00	330.00	19.00	300.00		330.00		20.00		796.13
R340370190BD/30K/V*	**340.00**		340.00	370.00	19.00	340.00		370.00		20.00		873.10

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RH - Buffer seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Polyacetal	-31°F à +212°F (-35°C à +100°C)	≤5800 psi (≤400 bar)	<3.3 ft/s (1 m/s)



RH-style are used as a primary rod seal to be used in conjunction with a secondary, rod-type seal. The buffer ring is used to absorb the initial shock load of the hydraulic system and thus protect the secondary seal. The use of an anti-extrusion ring allows it to withstand high pressures, and its special design avoids pressure-trapping.

Alternate Materials : For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R030041039RH/616	**30.00**	+ 0.00 - 0.05	30.00	41.00	3.90	30.00	+ 0.00 - 0.05	41.00	+ 0.20 - 0.00	4.20	+ 0.20 - 0.00	11.99
R035051059RH*	**35.50**		35.50	51.00	5.90	35.50		51.00		6.30		17.65
R036047039RH*	**36.00**		36.00	47.00	3.90	36.00		47.00		4.20		12.89
R040055059RH	**40.00**		40.00	55.50	5.90	40.00		55.50		6.30		13.57
R045055039RH	**40.00**		40.00	55.70	3.90	40.00		55.70		4.20		22.44
R045060059RH	**45.00**		45.00	60.50	5.90	45.00		60.50		6.30		14.33
R050065059RH	**50.00**		50.00	65.50	5.90	50.00		65.50		6.30		27.64
R055070059RH	**55.00**		55.00	70.50	5.90	55.00		70.50		6.30		27.80
R056071059RH	**56.00**		56.00	71.50	5.90	56.00		71.50		6.30		47.80
R060075059RH	**60.00**		60.00	75.50	5.90	60.00		75.50		6.30		39.49
R063078059RH	**63.00**		63.00	78.50	5.90	63.00		78.50		6.30		30.93
R065080059RH	**65.00**	+ 0.00 - 0.06	65.00	80.50	5.90	65.00	+ 0.00 - 0.06	80.50		6.30		46.96
R070085059RH	**70.00**		70.00	85.50	5.90	70.00		85.50		6.30		51.26
R075090059RH	**75.00**		75.00	90.50	5.90	75.00		90.50		6.30		54.50
R080095059RH	**80.00**	+ 0.00 - 0.09	80.00	95.50	5.90	80.00	+ 0.00 - 0.09	95.50		6.30		57.71
R080095059RH/30K	**80.00**		80.00	95.50	5.90	80.00		95.50		6.30		115.42
R085100059RH	**85.00**		85.00	100.50	5.90	85.00		100.50		6.30		64.92
R090105059RH	**90.00**		90.00	105.50	5.90	90.00		105.50		6.30		74.74
R090105059RH/30K	**90.00**		90.00	105.50	5.90	90.00		105.50		6.30		151.77
R090105059RH/1023*	**90.00**		90.00	105.50	5.90	90.00		105.50		6.30		97.17
R090105059RH/T616*	**90.00**		90.00	105.50	5.90	90.00		105.50		6.30		59.80
R095110059RH	**95.00**		95.00	110.50	5.90	95.00		110.50		6.30		78.91
R100115059RH	**100.00**		100.00	115.50	5.90	100.00		115.50		6.30		81.19

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R100115059RH/30K	**100.00**	+0.00/-0.09	100.00	115.50	5.90	100.00	+0.00/-0.09	115.50	+0.20 -0.00	6.30	+0.20 -0.00	122.80
R105120059RH	**105.00**	+0.00 -0.13	105.00	120.50	5.90	105.00	+0.00 -0.13	120.50		6.30		84.11
R105120059RH/30K	**105.00**		105.00	120.50	5.90	105.00		120.50		6.30		149.60
R105120059RH/B	**105.00**		105.00	120.50	5.90	105.00		120.50		6.30		105.98
R110125059RH	**110.00**		110.00	125.50	5.90	110.00		125.50		6.30		87.58
R110125059RH/30K	**110.00**		110.00	125.50	5.90	110.00		125.50		6.30		179.20
R110125059RH/B	**110.00**		110.00	125.50	5.90	110.00		125.50		6.30		110.36
R115130059RH	**115.00**		115.00	130.50	5.90	115.00		130.50		6.30		48.31
R115130059RH/B	**115.00**		115.00	130.50	5.90	115.00		130.50		6.30		60.88
R120135059RH	**120.00**		120.00	135.50	5.90	120.00		135.50		6.30		95.08
R125140059RH	**125.00**		125.00	140.50	5.90	125.00		140.50		6.30		47.76
R125145114RH/30K	**125.00**		125.00	145.00	11.40	125.00		145.00		12.50		184.56
R130145059RH	**130.00**		130.00	145.50	5.90	130.00		145.50		6.30		147.57
R130145059RH/B	**130.00**		130.00	145.50	5.90	130.00		145.50		6.30		185.94
R135150059RH*	**135.00**		135.00	150.50	5.90	135.00		150.50		6.30		112.98
R140155059RH	**140.00**		140.00	155.50	5.90	140.00		155.50		6.30		180.26
R140155059RH/B	**140.00**		140.00	155.50	5.90	140.00		155.50		6.30		198.29
R140160076RH*	**140.00**		140.00	160.50	7.60	140.00		160.50		8.10		201.40
R145160059RH	**145.00**		145.00	160.50	5.90	145.00		160.50		6.30		206.40
R145160059RH/B	**145.00**		145.00	160.50	5.90	145.00		160.50		6.30		218.20
R150165059RH	**150.00**		150.00	165.50	5.90	150.00		165.50		6.30		157.52
R150165059RH/30K	**150.00**		150.00	165.50	5.90	150.00		165.50		6.30		226.14
R150165059RH/B	**150.00**		150.00	165.50	5.90	150.00		165.50		6.30		169.20
R155170059RH	**155.00**		155.00	170.50	5.90	155.00		170.50		6.30		161.31
R160175059RH	**160.00**		160.00	175.50	5.90	160.00		175.50		6.30		241.53
R160175059RH/30K	**160.00**		160.00	175.50	5.90	160.00		175.50		6.30		208.73
R160180076RH/30K	**160.00**		160.00	180.00	7.60	160.00		180.00		8.10		216.20
R160180150/AE/30K	**160.00**		160.00	180.00	15.00	160.00		180.00	+0.00/-0.09	16.00		350.21
R165180059RH/30K	**165.00**		165.00	180.50	5.90	165.00		180.50	+0.20 -0.00	6.30		257.10
R170185059RH	**170.00**		170.00	185.50	5.90	170.00		185.50		6.30		255.48
R170185059RH/30K	**170.00**		170.00	185.50	5.90	170.00		185.50		6.30		256.60
R170194076RH/30K*	**170.00**		170.00	194.00	7.60	170.00		194.00		8.10		284.00
R170195096RH/30K	**170.00**		170.00	195.00	9.60	170.00		195.00		10.10		330.15
R170195103RH/30K	**170.00**		170.00	195.00	10.30	170.00		195.00		10.80		261.54
R180195059RH	**180.00**		180.00	195.50	5.90	180.00		195.50		6.30		356.55
R180195059RH/30K	**180.00**		180.00	195.50	5.90	180.00		195.50		6.30		270.42
R180195059RH/U801	**180.00**		180.00	195.50	5.90	180.00		195.50		6.30		331.68
R180201076RH/30K*	**180.00**		180.00	200.50	7.60	180.00		200.50		8.10		367.05
R180205096RH/30K	**180.00**		180.00	205.00	9.60	180.00		205.00		10.10		346.72
R190205060RH*	**190.00**		190.00	205.50	5.90	190.00		205.50		6.30		267.98
R200221076RH	**200.00**		200.00	220.50	7.60	200.00		220.50		8.10		339.77
R200221076RH/30K	**200.00**		200.00	221.00	7.60	200.00		221.00		8.10		318.26
R200225096RH/30K	**200.00**		200.00	225.00	9.60	200.00		225.00		10.10		329.56
R210230076RH	**210.00**		210.00	230.50	7.60	210.00		230.50		8.10		357.36
R210230076RH/30K	**210.00**		210.00	230.50	7.60	210.00		230.50		8.10		357.36
R210231076RH/30K	**210.00**		210.00	231.00	7.60	210.00		231.00		8.10		357.36

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

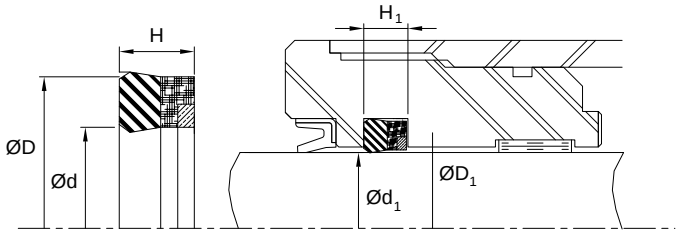
RH series - AU 94A/POM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R210235103RH*	**210.00**	+ 0.00 - 0.13	210.00	235.00	10.30	210.00	+ 0.00 - 0.13	235.00	+ 0.20 - 0.00	10.80	+ 0.20 - 0.00	361.20
R220245096RH/30K	**220.00**		220.00	245.50	9.60	220.00		245.50		10.10		415.32
R240265096RH/30K	**240.00**		240.00	265.00	9.60	240.00		265.00		10.10		413.49
R280300076RH	**280.00**		280.00	300.00	7.60	280.00		300.00		8.10		552.80

RR - Rod seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Fabric/Polyacetal	-22°F to +212°F (-30°C to +100°C)	≤5800 psi (≤400 bar)	< 1.6 ft/s (0.5 m/s)



RR-style is a single-acting hydraulic rod seal composed of a fabric-reinforced elastomer sealing ring and a POM anti-extrusion ring. This combination provides high extrusion resistance, long service life, and reliable sealing performance in heavy-duty applications.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R012023072RR*	**12.00**	+ 0.00 - 0.04	12.00	23.00	7.20	12.00	+ 0.00 - 0.04	23.00	+ 0.04 - 0.00	7.50	+ 0.25 - 0.00	12.70
R015027067RR*	**15.00**		15.00	27.00	6.70	15.00		27.00		7.00		14.99
R016024067RR*	**16.00**		16.00	24.00	6.70	16.00		24.00		7.00		14.01
R016028072RR*	**16.00**		16.00	28.00	7.20	16.00		28.00		7.50		14.99
R018026061RR*	**18.00**		18.00	26.00	6.10	18.00		26.00		6.40		14.99
R018028060RR*	**18.00**		18.00	28.00	6.00	18.00		28.00		6.30		15.50
R018030072RR*	**18.00**		18.00	30.00	7.20	18.00		30.00		7.50		16.26
R020027057RR*	**20.00**		20.00	27.00	5.70	20.00		27.00	+ 0.05 - 0.00	6.00		15.75
R020028060RR*	**20.00**		20.00	28.00	6.00	20.00		28.00		6.30		15.75
R020028067RR*	**20.00**		20.00	28.00	6.70	20.00		28.00		7.00		13.54
R020030077RR*	**20.00**		20.00	30.00	7.70	20.00		30.00		8.00		15.75
R020030082RR*	**20.00**		20.00	30.00	8.20	20.00		30.00		8.50		15.75
R022029047RR*	**22.00**		22.00	29.00	4.70	22.00		29.00		5.00		15.75

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R022030067RR*	**22.00**	+ 0.00 - 0.04	22.00	30.00	6.70	22.00	+ 0.00 - 0.04	30.00	+ 0.05 - 0.00	7.00	+ 0.25 - 0.00	14.00
R022032072RR*	**22.00**		22.00	32.00	7.20	22.00		32.00		7.50		17.02
R022032097RR*	**22.00**		22.00	32.00	9.70	22.00		32.00		10.00		17.02
R022034092RR*	**22.00**		22.00	34.00	9.20	22.00		34.00		9.50		17.78
R022035097RR*	**22.00**		22.00	35.00	9.70	22.00		35.00		10.00		5.60
R025033057RR*	**25.00**		25.00	33.00	5.70	25.00		33.00		6.00		15.75
R025033061RR*	**25.00**		25.00	33.00	6.10	25.00		33.00		6.40		15.75
R025033067RR*	**25.00**		25.00	33.00	6.70	25.00		33.00		7.00		16.01
R025035077RR*	**25.00**		25.00	35.00	7.70	25.00		35.00		8.00		17.28
R025035087RR*	**25.00**		25.00	35.00	8.70	25.00		35.00		9.00		17.28
R025038092RR*	**25.00**		25.00	38.00	9.20	25.00		38.00		9.50		17.78
R025038097RR*	**25.00**		25.00	38.00	9.70	25.00		38.00		10.00		17.78
R028014092RR*	**28.00**		28.00	14.00	9.20	28.00		14.00		9.50		21.09
R028036061RR*	**28.00**		28.00	36.00	6.10	28.00		36.00		6.40		17.28
R028038077RR*	**28.00**		28.00	38.00	7.70	28.00		38.00		8.00		17.78
R028040092RR*	**28.00**		28.00	40.00	9.20	28.00		40.00		9.50		19.05
R028041097RR*	**28.00**		28.00	41.00	9.70	28.00		41.00		10.00		19.56
R030038062RR*	**30.00**		30.00	38.00	6.20	30.00		38.00		6.50		17.78
R030040067RR*	**30.00**		30.00	40.00	6.70	30.00		40.00		7.00		18.55
R030040072RR*	**30.00**		30.00	40.00	7.20	30.00		40.00		7.50		18.55
R030040102RR*	**30.00**		30.00	40.00	10.20	30.00		40.00		10.50		19.56
R030045087RR*	**30.00**		30.00	45.00	8.70	30.00		45.00		9.00		22.87
R030050142RR*	**30.00**		30.00	50.00	14.20	30.00		50.00		14.50		27.95
R032040047RR*	**32.00**		32.00	40.00	4.70	32.00		40.00	+ 0.06 - 0.00	5.00		17.82
R032040087RR*	**32.00**		32.00	40.00	8.70	32.00		40.00		9.00		19.56
R032042107RR*	**32.00**		32.00	42.00	10.70	32.00		42.00		11.00		20.83
R032045097RR*	**32.00**		32.00	45.00	9.70	32.00		45.00		10.00		22.10
R035043057RR*	**35.00**		35.00	43.00	5.70	35.00		43.00		6.00		22.87
R035045097RR*	**35.00**		35.00	45.00	9.70	35.00		45.00		10.00		23.37
R035045102RR*	**35.00**		35.00	45.00	10.20	35.00		45.00		10.50		23.37
R035050102RR*	**35.00**		35.00	50.00	10.20	35.00		50.00		10.50		23.37
R035050112RR*	**35.00**		35.00	50.00	11.20	35.00		50.00		11.50		23.37
R036043062RR*	**36.00**		36.00	43.00	6.20	36.00		43.00		6.50		22.87
R036044061RR*	**36.00**		36.00	44.00	6.10	36.00		44.00		6.40		22.87
R036046082RR*	**36.00**		36.00	46.00	8.20	36.00		46.00		8.50		23.37
R036048092RR*	**36.00**		36.00	48.00	9.20	36.00		48.00		9.50		23.37
R036048117RR*	**36.00**		36.00	48.00	11.70	36.00		48.00		12.00		24.39
R038055102RR*	**38.00**		38.00	55.00	10.20	38.00		55.00		10.50		23.37
R040048062RR*	**40.00**	+ 0.00 - 0.05	40.00	48.00	6.20	40.00	+ 0.00 - 0.05	48.00		6.50		20.83
R040050077RR*	**40.00**		40.00	50.00	7.70	40.00		50.00		8.00		23.37
R040050097RR*	**40.00**		40.00	50.00	9.70	40.00		50.00		10.00		23.37
R040050102RR*	**40.00**		40.00	50.00	10.20	40.00		50.00		10.50		23.37
R040050107RR*	**40.00**		40.00	50.00	10.70	40.00		50.00		11.00		23.37
R040055077RR*	**40.00**		40.00	55.00	7.70	40.00		55.00		8.00		23.37
R040055102RR*	**40.00**		40.00	55.00	10.20	40.00		55.00		10.50		23.37
R040055107RR*	**40.00**		40.00	55.00	10.70	40.00		55.00		11.00		23.37

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RR series - NBR/FABRIC/POM

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R040060142RR*	**40.00**	+ 0.00 - 0.05	40.00	60.00	14.20	40.00	+ 0.00 - 0.05	60.00	+ 0.06 - 0.00	14.50	+ 0.25 - 0.00	26.93
R042052087RR*	**42.00**		42.00	52.00	8.70	42.00		52.00		9.00		23.37
R045055072RR*	**45.00**		45.00	55.00	7.20	45.00		55.00		7.50		23.37
R045055077RR*	**45.00**		45.00	55.00	7.70	45.00		55.00		8.00		23.37
R045055102RR*	**45.00**		45.00	55.00	10.20	45.00		55.00		10.50		23.37
R045055107RR*	**45.00**		45.00	55.00	10.70	45.00		55.00		11.00		23.37
R045057097RR*	**45.00**		45.00	57.00	9.70	45.00		57.00		10.00		23.88
R045060102RR*	**45.00**		45.00	60.00	10.20	45.00		60.00		10.50		25.15
R045065142RR*	**45.00**		45.00	65.00	14.20	45.00		65.00		14.50		27.69
R050060072RR*	**50.00**		50.00	60.00	7.20	50.00		60.00		7.50		23.63
R050060077RR*	**50.00**		50.00	60.00	7.70	50.00		60.00		8.00		23.63
R050060097RR*	**50.00**		50.00	60.00	9.70	50.00		60.00		10.00		24.39
R050060102RR*	**50.00**		50.00	60.00	10.20	50.00		60.00		10.50		23.63
R050062077RR*	**50.00**		50.00	62.00	7.70	50.00		62.00		8.00		24.39
R050062097RR*	**50.00**		50.00	62.00	9.70	50.00		62.00		10.00		24.39
R050065102RR*	**50.00**		50.00	65.00	10.20	50.00		65.00		10.50		25.15
R050065107RR*	**50.00**		50.00	65.00	10.70	50.00		65.00		11.00		25.15
R050070137RR*	**50.00**		50.00	70.00	13.70	50.00		70.00		14.00		27.95
R050070142RR*	**50.00**		50.00	70.00	14.20	50.00		70.00		14.50		27.95
R054066092RR*	**54.00**		54.00	66.00	9.20	54.00		66.00	+ 0.07 - 0.00	9.50		25.66
R055065077RR*	**55.00**		55.00	65.00	7.70	55.00		65.00		8.00		25.66
R055065102RR*	**55.00**		55.00	65.00	10.20	55.00		65.00		10.50		25.15
R055065107RR*	**55.00**		55.00	65.00	10.70	55.00		65.00		11.00		25.41
R055065117RR*	**55.00**		55.00	65.00	11.70	55.00		65.00		12.00		25.66
R055070102RR*	**55.00**		55.00	70.00	10.20	55.00		70.00		10.50		27.95
R055075137RR*	**55.00**		55.00	75.00	13.70	55.00		75.00		14.00		27.95
R055075142RR*	**55.00**		55.00	75.00	14.20	55.00		75.00		14.50		27.95
R056066102RR*	**56.00**		56.00	66.00	10.20	56.00		66.00		10.50		25.15
R056071102RR*	**56.00**		56.00	71.00	10.20	56.00		71.00		10.50		27.95
R056076142RR*	**56.00**		56.00	76.00	14.20	56.00		76.00		14.50		27.95
R060070077RR*	**60.00**		60.00	70.00	7.70	60.00		70.00		8.00		26.68
R060070102RR*	**60.00**		60.00	70.00	10.20	60.00		70.00		10.50		26.68
R060070107RR*	**60.00**		60.00	70.00	10.70	60.00		70.00		11.00		27.95
R060070122RR*	**60.00**		60.00	70.00	12.20	60.00		70.00		12.50		26.68
R060070127RR*	**60.00**		60.00	70.00	12.70	60.00		70.00		13.00		26.68
R060072097RR*	**60.00**		60.00	72.00	9.70	60.00		72.00		10.00		27.19
R060075122RR*	**60.00**		60.00	75.00	12.20	60.00		75.00		12.50		29.73
R060075127RR*	**60.00**		60.00	75.00	12.70	60.00		75.00		13.00		29.73
R060075127RR*	**60.00**		60.00	75.00	12.70	60.00		75.00		13.00		29.73
R060080137RR*	**60.00**		60.00	80.00	13.70	60.00		80.00		14.00		32.77
R060080142RR*	**60.00**		60.00	80.00	14.20	60.00		80.00		14.50		32.77
R063071087RR*	**63.00**		63.00	71.00	8.70	63.00		71.00		9.00		29.22
R063075107RR*	**63.00**		63.00	75.00	10.70	63.00		75.00		11.00		28.71
R063078122RR*	**63.00**		63.00	78.00	12.20	63.00		78.00		12.50		29.73
R063083142RR*	**63.00**		63.00	83.00	14.20	63.00		83.00		14.50		32.77
R065075122RR*	**65.00**	+0.00/-0.06	65.00	75.00	12.20	65.00	+0.00/-0.06	75.00		12.50		26.68

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

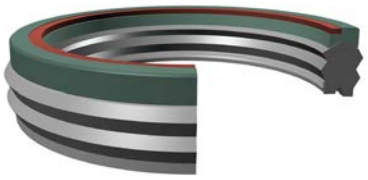
Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R065075132RR*	**65.00**	+ 0.00 - 0.06	65.00	75.00	13.20	65.00	+ 0.00 - 0.06	75.00	+ 0.07 - 0.00	13.50	+ 0.25 - 0.00	26.68
R065077093RR*	**65.00**		65.00	77.00	9.30	65.00		77.00		9.60		27.95
R065080112RR*	**65.00**		65.00	80.00	11.20	65.00		80.00		11.50		31.76
R065080122RR*	**65.00**		65.00	80.00	12.20	65.00		80.00		12.50		31.76
R070080077RR*	**70.00**		70.00	80.00	7.70	70.00		80.00		8.00		31.00
R070080122RR*	**70.00**		70.00	80.00	12.20	70.00		80.00		12.50		31.76
R070080127RR*	**70.00**		70.00	80.00	12.70	70.00		80.00		13.00		31.76
R070082102RR*	**70.00**		70.00	82.00	10.20	70.00		82.00		10.50		31.76
R070084122RR*	**70.00**		70.00	84.00	12.20	70.00		84.00		12.50		33.79
R070085117RR*	**70.00**		70.00	85.00	11.70	70.00		85.00		12.00		33.79
R070085122RR*	**70.00**		70.00	85.00	12.20	70.00		85.00		12.50		33.79
R070090137RR*	**70.00**		70.00	90.00	13.70	70.00		90.00		14.00		35.82
R075085107RR*	**75.00**		75.00	85.00	10.70	75.00		85.00		11.00		34.04
R075085122RR*	**75.00**		75.00	85.00	12.20	75.00		85.00		12.50		34.04
R075090107RR*	**75.00**		75.00	90.00	10.70	75.00		90.00		11.00		33.79
R075090112RR*	**75.00**		75.00	90.00	11.20	75.00		90.00		11.50		33.79
R075090125RR*	**75.00**		75.00	90.00	12.50	75.00		90.00		12.80		34.04
R075095142RR*	**75.00**		75.00	95.00	14.20	75.00		95.00		14.50		36.84
R080090122RR*	**80.00**	+ 0.00 - 0.09	80.00	90.00	12.20	80.00	+ 0.00 - 0.09	90.00		12.50		34.04
R080093142RR*	**80.00**		80.00	93.00	14.20	80.00		93.00		14.50		34.04
R080095097RR*	**80.00**		80.00	95.00	9.70	80.00		95.00		10.00		33.79
R080095117RR*	**80.00**		80.00	95.00	11.70	80.00		95.00		12.00		34.55
R080096102RR*	**80.00**		80.00	96.00	10.20	80.00		96.00		10.50		34.55
R080100117RR*	**80.00**		80.00	100.00	11.70	80.00		100.00		12.00		35.06
R080100122RR*	**80.00**		80.00	100.00	12.20	80.00		100.00		12.50		35.06
R080100137RR*	**80.00**		80.00	100.00	13.70	80.00		100.00		14.00		36.33
R080100142RR*	**80.00**		80.00	100.00	14.20	80.00		100.00		14.50		36.33
R085095077RR*	**85.00**		85.00	95.00	7.70	85.00		95.00	+ 0.09 - 0.00	8.00		34.04
R085100120RR*	**85.00**		85.00	100.00	12.00	85.00		100.00		12.30		34.98
R085100122RR*	**85.00**		85.00	100.00	12.20	85.00		100.00		12.50		35.06
R085105142RR*	**85.00**		85.00	105.00	14.20	85.00		105.00		14.50		36.33
R090105092RR*	**90.00**		90.00	105.00	9.20	90.00		105.00		9.50		35.06
R090105122RR*	**90.00**		90.00	105.00	12.20	90.00		105.00		12.50		35.06
R090110117RR*	**90.00**		90.00	110.00	11.70	90.00		110.00		12.00		30.23
R090110122RR*	**90.00**		90.00	110.00	12.20	90.00		110.00		12.50		37.86
R095105107RR*	**95.00**		95.00	105.00	10.70	95.00		105.00		11.00		35.06
R095110117RR*	**95.00**		95.00	110.00	11.70	95.00		110.00		12.00		37.35
R095112117RR*	**95.00**		95.00	112.00	11.70	95.00		112.00		12.00		37.86
R095115117RR*	**95.00**	+ 0.00 - 0.13	95.00	115.00	11.70	95.00	+ 0.00 - 0.13	115.00		12.00		37.60
R095115142RR*	**95.00**		95.00	115.00	14.20	95.00		115.00		14.50		37.86
R100115112RR*	**100.00**		100.00	115.00	11.20	100.00		115.00		11.50		37.86
R100115122RR	**100.00**		100.00	115.00	12.20	100.00		115.00		12.50		37.86
R100120117RR*	**100.00**		100.00	120.00	11.70	100.00		120.00		12.00		42.68
R100120137RR*	**100.00**		100.00	120.00	13.70	100.00		120.00		14.00		42.68
R100120142RR*	**100.00**		100.00	120.00	14.20	100.00		120.00		14.50		43.70
R100120242RR*	**100.00**		100.00	120.00	24.20	100.00		120.00		24.50		58.44

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

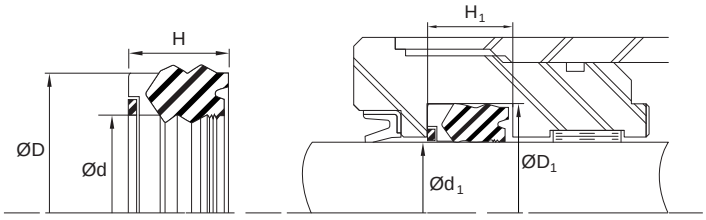
RR series - NBR/FABRIC/POM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R100125197RR*	**100.00**	+0.00/- 0.09	100.00	125.00	19.70	100.00	+0.00/- 0.09	125.00	+ 0.09 - 0.00	20.00	+ 0.25 - 0.00	58.18
R105115107RR*	**105.00**	+ 0.00 - 0.13	105.00	115.00	10.70	105.00	+ 0.00 - 0.13	115.00		11.00		35.57
R105125122RR*	**105.00**		105.00	125.00	12.20	105.00		125.00		12.50		42.68
R110125117RR*	**110.00**		110.00	125.00	11.70	110.00		125.00		12.00		37.86
R110130122RR*	**110.00**		110.00	130.00	12.20	110.00		130.00		12.50		43.70
R110135152RR*	**110.00**		110.00	135.00	15.20	110.00		135.00		15.50		45.99
R120130102RR*	**120.00**		120.00	130.00	10.20	120.00		130.00		10.50		39.38
R120135122RR*	**120.00**		120.00	135.00	12.20	120.00		135.00		12.50		39.38
R120140122RR*	**120.00**		120.00	140.00	12.20	120.00		140.00		12.50		57.16
R120145185RR*	**120.00**		120.00	145.00	18.50	120.00		145.00		18.80		63.01
R125150137RR*	**125.00**		125.00	150.00	13.70	125.00		150.00	+ 0.10 - 0.00	14.00		69.87
R125150142RR*	**125.00**		125.00	150.00	14.20	125.00		150.00		14.50		63.01
R130145127RR*	**130.00**		130.00	145.00	12.70	130.00		145.00		13.00		57.42
R130145147RR*	**130.00**		130.00	145.00	14.70	130.00		145.00		15.00		57.93
R130150167RR*	**130.00**		130.00	150.00	16.70	130.00		150.00		17.00		57.93
R135150137RR*	**135.00**		135.00	150.00	13.70	135.00		150.00		14.00		63.01
R135160137RR*	**135.00**		135.00	160.00	13.70	135.00		160.00		14.00		69.87
R140155127RR*	**140.00**		140.00	155.00	12.70	140.00		155.00		13.00		58.94
R140160117RR*	**140.00**		140.00	160.00	11.70	140.00		160.00		12.00		66.57
R140160122RR*	**140.00**		140.00	160.00	12.20	140.00		160.00		12.50		60.72
R140160142RR*	**140.00**		140.00	160.00	14.20	140.00		160.00		14.50		60.72
R140170225RR*	**140.00**		140.00	170.00	22.50	140.00		170.00		22.80		69.87
R150170137RR*	**150.00**		150.00	170.00	13.70	150.00		170.00		14.00		77.74
R150170142RR*	**150.00**		150.00	170.00	14.20	150.00		170.00		14.50		77.74
R160175167RR*	**160.00**		160.00	175.00	16.70	160.00		175.00		17.00		77.74
R160180142RR*	**160.00**		160.00	180.00	14.20	160.00		180.00		14.50		77.74
R175200227RR*	**175.00**		175.00	200.00	22.70	175.00		200.00		23.00		100.86
R180200142RR*	**180.00**		180.00	200.00	14.20	180.00		200.00		14.50		103.66
R180210202RR*	**180.00**		180.00	210.00	20.20	180.00		210.00		20.50		108.74
R190210142RR*	**190.00**		190.00	210.00	14.20	190.00		210.00	+ 0.12 - 0.00	14.50		110.52
R198208117RR*	**198.00**		198.00	208.00	11.70	198.00		208.00		12.00		103.66
R200220142RR*	**200.00**		200.00	220.00	14.20	200.00		220.00		14.50		125.76
R210240202RR*	**210.00**		210.00	240.00	20.20	210.00		240.00		20.50		184.96
R220250202RR*	**220.00**		220.00	250.00	20.20	220.00		250.00		20.50		222.31
R230260202RR*	**230.00**		230.00	260.00	20.20	230.00		260.00		20.50		279.20

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Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Neo-Fabric/ Polyacetal	-22°F to +212°F (-30°C to +100°C)	≤10 000 psi (≤689 bar)	<1.6 ft/s (0.5 m/s)



RV-style is a three-piece unit, comprising of an elastomeric header ring, a fabric-reinforced female adapter and an acetal anti-extrusion ring. Designed to replace standard, stackable vee-packings, the RV seal requires no pre-load, its molded, multiple lip design insures excellent sealing ability especially on high side-load applications.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R015027200RV*	**15.00**	+ 0.00 - 0.04	15.00	27.00	20.00	15.00	+ 0.00 - 0.04	27.00	+ 0.10 - 0.00	20.00	+ 0.25 - 0.00	16.02
R020033200RV*	**20.00**		20.00	33.00	20.00	20.00		33.00		20.00		16.02
R022035200RV*	**22.00**		22.00	35.00	20.00	22.00		35.00		20.00		16.02
R025037225RV*	**25.00**		25.00	37.00	22.50	25.00		37.00		22.50		29.40
R025038200RV*	**25.00**		25.00	38.00	20.00	25.00		38.00		20.00		16.02
R028041200RV*	**28.00**		28.00	41.00	20.00	28.00		41.00		20.00		21.42
R030043200RV*	**30.00**		30.00	43.00	20.00	30.00		43.00		20.00		21.42
R032047225RV*	**32.00**		32.00	47.00	22.50	32.00		47.00		22.50		27.81
R035045256RV*	**35.00**		35.00	45.00	25.50	35.00		45.00		25.50		22.44
R035047225RV*	**35.00**		35.00	47.00	22.50	35.00		47.00		22.50		22.44
R035050225RV*	**35.00**		35.00	50.00	22.50	35.00		50.00		22.50		21.42
R036051225RV*	**36.00**	+ 0.00 - 0.05	36.00	51.00	22.50	36.00	+ 0.00 - 0.05	51.00		22.50		25.80
R040050173RV*	**40.00**		40.00	50.00	17.50	40.00		50.00		17.50		26.33
R040052225RV*	**40.00**		40.00	52.00	22.50	40.00		52.00	+ 0.12 - 0.00	22.50		23.49
R040055225RV	**40.00**		40.00	55.00	22.50	40.00		55.00		22.50		26.09
R040060300RV*	**40.00**		40.00	60.00	30.00	40.00		60.00		30.00		25.28
R045060225RV*	**45.00**		45.00	60.00	22.50	45.00		60.00		22.50		36.15
R045065280RV*	**45.00**		45.00	65.00	28.00	45.00		65.00		28.00		41.36
R050063200RV*	**50.00**		50.00	63.00	20.00	50.00		63.00		20.00		25.91
R050065225RV	**50.00**		50.00	65.00	22.50	50.00		65.00		22.50		30.81
R050065245RV	**50.00**		50.00	65.00	24.50	50.00		65.00		24.50		36.69
R050070300RV*	**50.00**		50.00	70.00	30.00	50.00		70.00		30.00		26.75
R050070319RV*	**50.00**		50.00	70.00	31.90	50.00		70.00		31.90		26.75

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RV series - NBR/NEOFAB/POM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R055070225RV	**55.00**	+ 0.00 - 0.05	55.00	70.00	22.50	55.00	+ 0.00 - 0.05	70.00	+ 0.12 - 0.00	22.50	+ 0.25 - 0.00	64.70
R055070250RV*	**55.00**		55.00	70.00	25.00	55.00		70.00		25.00		31.23
R055075300RV*	**55.00**		55.00	75.00	30.00	55.00		75.00		30.00		32.10
R055075320RV*	**55.00**		55.00	75.00	32.00	55.00		75.00		32.00		32.10
R056071225RV*	**56.00**		56.00	71.00	22.50	56.00		71.00		22.50		33.01
R056071250RV*	**56.00**		56.00	71.00	25.00	56.00		71.00		25.00		33.68
R056076280RV*	**56.00**		56.00	76.00	28.00	56.00		76.00		28.00		32.10
R060075225RV*	**60.00**		60.00	75.00	22.50	60.00		75.00		22.50		32.97
R060075250RV*	**60.00**		60.00	75.00	25.00	60.00		75.00		25.00		29.42
R060077270RV*	**60.00**		60.00	77.00	27.00	60.00		77.00		27.00		29.42
R060080270RV*	**60.00**		60.00	80.00	27.00	60.00		80.00		27.00		32.60
R060080300RV*	**60.00**		60.00	80.00	30.00	60.00		80.00		30.00		33.39
R060080320RV*	**60.00**		60.00	80.00	32.00	60.00		80.00		32.00		33.68
R060080349RV*	**60.00**		60.00	80.00	34.90	60.00		80.00		34.90		32.10
R063083270RV*	**63.00**		63.00	83.00	28.00	63.00		83.00	+ 0.14 - 0.00	28.00		82.28
R063083290RV*	**63.00**		63.00	83.00	29.00	63.00		83.00		29.00		32.10
R063083300RV*	**63.00**		63.00	83.00	30.00	63.00		83.00		30.00		41.12
R065085290RV*	**65.00**		65.00	85.00	29.00	65.00		85.00		29.00		67.68
R070083250RV*	**70.00**	+ 0.00 - 0.06	70.00	83.00	25.00	70.00	+ 0.00 - 0.05	83.00		25.00		36.89
R070085225RV	**70.00**		70.00	85.00	22.50	70.00		85.00		22.50		38.37
R070085250RV*	**70.00**		70.00	85.00	25.00	70.00		85.00		25.00		45.60
R070090300RV*	**70.00**		70.00	90.00	30.00	70.00		90.00		30.00		55.01
R070090319RV*	**70.00**		70.00	90.00	31.90	70.00		90.00		31.90		34.77
R075095280RV*	**75.00**		75.00	95.00	28.00	75.00		95.00		28.00		37.44
R075095300RV*	**75.00**		75.00	95.00	30.00	75.00		95.00		30.00		73.11
R080095225RV*	**80.00**	+ 0.00 - 0.09	80.00	95.00	22.50	80.00	+ 0.00 - 0.09	95.00		22.50		116.85
R080100300RV	**80.00**		80.00	100.00	30.00	80.00		100.00		30.00		57.75
R085095225RV*	**85.00**		85.00	95.00	22.50	85.00		95.00		22.50		64.90
R085100225RV*	**85.00**		85.00	100.00	22.50	85.00		100.00		22.50		67.38
R085105220RV*	**85.00**		85.00	105.00	22.00	85.00		105.00		22.00		66.41
R085105300RV*	**85.00**		85.00	105.00	30.00	85.00		105.00		30.00		69.99
R090105225RV	**90.00**		90.00	105.00	22.50	90.00		105.00		22.50		64.35
R090105250RV	**90.00**		90.00	105.00	25.00	90.00		105.00		25.00		40.11
R090105335RV*	**90.00**		90.00	105.00	33.50	90.00		105.00		33.50		40.11
R090110300RV*	**90.00**		90.00	110.00	30.00	90.00		110.00		30.00		59.06
R090110325RV*	**90.00**		90.00	110.00	32.50	90.00		110.00		32.50		40.11
R095110225RV*	**95.00**		95.00	110.00	22.50	95.00		110.00		22.50		43.94
R095115280RV*	**95.00**		95.00	115.00	28.00	95.00		115.00		28.00		44.90
R100114242RV	**100.00**		100.00	114.30	24.20	100.00		114.30		24.20		42.78
R100120300RV	**100.00**		100.00	120.00	30.00	100.00		120.00		30.00		51.71
R105118250RV*	**105.00**	+ 0.00 - 0.13	105.00	118.00	25.00	105.00	+ 0.00 - 0.13	118.00	+ 0.16 - 0.00	25.00		59.60
R105120340RV*	**105.00**		105.00	120.00	34.00	105.00		120.00		34.00		61.61
R105125300RV*	**105.00**		105.00	125.00	30.00	105.00		125.00		30.00		62.51
R110125225RV*	**110.00**		110.00	125.00	22.50	110.00		125.00		22.50		68.87
R110130300RV*	**110.00**		110.00	130.00	30.00	110.00		130.00		30.00		88.83
R110130325RV*	**110.00**		110.00	130.00	32.50	110.00		130.00		32.50		55.91

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R110132365RV*	**110.00**	+ 0.00 - 0.13	110.00	132.00	36.50	110.00	+ 0.00 - 0.13	132.00	+ 0.16 - 0.00	36.50	+ 0.25 - 0.00	57.99
R114130190RV*	**114.00**		114.00	130.00	19.00	114.00		130.00		19.00		59.64
R115125225RV*	**115.00**		115.00	125.00	22.50	115.00		125.00		22.50		64.20
R115130225RV*	**115.00**		115.00	130.00	22.50	115.00		130.00		22.50		68.87
R115130300RV*	**115.00**		115.00	130.00	30.00	115.00		130.00		30.00		55.91
R120140300RV*	**120.00**		120.00	140.00	30.00	120.00		140.00		30.00		55.91
R125140225RV*	**125.00**		125.00	140.00	22.50	125.00		140.00		22.50		75.62
R125145300RV*	**125.00**		125.00	145.00	30.00	125.00		145.00		30.00		58.67
R127142225RV*	**127.00**		127.00	142.00	22.50	127.00		142.00		22.50		75.62
R130150300RV*	**130.00**		130.00	150.00	30.00	130.00		150.00		30.00		61.52
R135150225RV*	**135.00**		135.00	150.00	22.50	135.00		150.00		22.50		78.99
R135155280RV*	**135.00**		135.00	155.00	28.00	135.00		155.00		28.00		91.20
R140155225RV*	**140.00**		140.00	155.00	22.50	140.00		155.00		22.50		93.08
R140160190RV*	**140.00**		140.00	160.00	19.00	140.00		160.00		19.00		99.01
R140160225RV*	**140.00**		140.00	160.00	22.50	140.00		160.00		22.50		89.46
R140160280RV*	**140.00**		140.00	160.00	28.00	140.00		160.00		28.00		69.90
R140160300RV*	**140.00**		140.00	160.00	30.00	140.00		160.00		30.00		127.92
R145165225RV*	**145.00**		145.00	165.00	22.50	145.00		165.00		22.50		96.21
R150170280RV*	**150.00**		150.00	170.00	28.00	150.00		170.00		28.00		69.90
R155175225RV*	**155.00**		155.00	175.00	22.50	155.00		175.00		22.50		110.06
R155175280RV*	**155.00**		155.00	175.00	28.00	155.00		175.00		28.00		99.99
R160180280RV*	**160.00**		160.00	180.00	28.00	160.00		180.00		28.00		63.75
R165185300RV*	**165.00**		165.00	185.00	30.00	165.00		185.00		30.00		112.23
R170185225RV*	**170.00**		170.00	185.00	22.50	170.00		185.00		22.50		113.45
R170195350RV*	**170.00**		170.00	195.00	35.00	170.00		195.00		35.00		111.86
R175195225RV*	**175.00**		175.00	195.00	22.50	175.00		195.00		22.50		123.92
R175195300RV*	**175.00**		175.00	195.00	30.00	175.00		195.00		30.00		137.39
R175200350RV*	**175.00**		175.00	200.00	35.00	175.00		200.00		35.00		135.60
R177192225RV*	**177.00**		177.00	192.00	22.50	177.00		192.00		22.50		130.64
R180205350RV	**180.00**		180.00	205.00	35.00	180.00		205.00	+ 0.18 - 0.00	35.00		114.44
R185200225RV*	**185.00**		185.00	200.00	22.50	185.00		200.00		22.50		137.39
R185210350RV*	**185.00**		185.00	210.00	35.00	185.00		210.00		35.00		125.85
R187202225RV*	**187.00**		187.00	202.00	22.50	187.00		202.00		22.50		137.39
R190215350RV*	**190.00**		190.00	215.00	35.00	190.00		215.00		35.00		125.85
R192210225RV*	**192.00**		192.00	210.00	22.50	192.00		210.00		22.50		137.39
R195210225RV*	**195.00**		195.00	210.00	22.50	195.00		210.00		22.50		137.39
R195220350RV*	**195.00**		195.00	220.00	35.00	195.00		220.00		35.00		139.79
R200215225RV*	**200.00**		200.00	215.00	22.50	200.00		215.00		22.50		144.11
R200225350RV*	**200.00**		200.00	225.00	35.00	200.00		225.00		35.00		171.75
R205230350RV*	**205.00**		205.00	230.00	35.00	205.00		230.00		35.00		219.74
R207225225RV*	**207.00**		207.00	225.00	22.50	207.00		225.00		22.50		144.11
R210235300RV*	**210.00**		210.00	235.00	30.00	210.00		235.00		30.00		174.20
R210235350RV*	**210.00**		210.00	235.00	35.00	210.00		235.00		35.00		244.07
R212230225RV*	**212.00**		212.00	230.00	22.50	212.00		230.00		22.50		151.23
R215240350RV*	**215.00**		215.00	240.00	35.00	215.00		240.00		35.00		169.21
R220240225RV*	**220.00**		220.00	240.00	22.50	220.00		240.00		22.50		178.56

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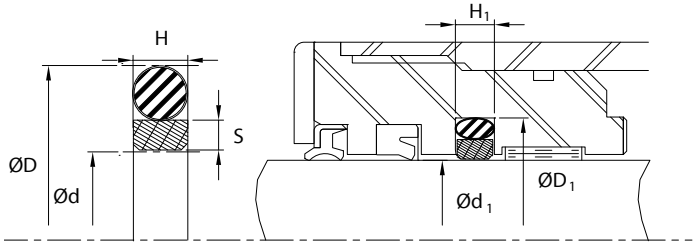
RV series - NBR/NEOFAB/POM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R220245350RV*	**220.00**	+ 0.00 - 0.13	220.00	245.00	35.00	220.00	+ 0.00 - 0.13	245.00	+ 0.18 - 0.00	35.00	+ 0.25 - 0.00	181.73
R225240225RV*	**225.00**		225.00	240.00	22.50	225.00		240.00		22.50		178.56
R225250350RV*	**225.00**		225.00	250.00	35.00	225.00		250.00		35.00		204.20
R230250225RV*	**230.00**		230.00	250.00	22.50	230.00		250.00		22.50		205.89
R230255350RV*	**230.00**		230.00	255.00	35.00	230.00		255.00		35.00		212.45
R235255225RV*	**235.00**		235.00	255.00	22.50	235.00		255.00		22.50		219.74
R240265350RV*	**240.00**		240.00	265.00	35.00	240.00		265.00		35.00		195.74
R250275350RV*	**250.00**		250.00	275.00	35.00	250.00		275.00		35.00		264.20
R260280225RV*	**260.00**		260.00	280.00	22.50	260.00		280.00		22.50		288.60
R265290350RV*	**265.00**		265.00	290.00	35.00	265.00		290.00		35.00		290.90
R275300350RV*	**275.00**		275.00	300.00	35.00	275.00		300.00		35.00		294.60
R280305350RV*	**280.00**		280.00	305.00	35.00	280.00		305.00		35.00		251.64
R283303225RV*	**283.00**		283.00	303.00	22.50	283.00		303.00		22.50		302.09
R300325350RV*	**300.00**		300.00	325.00	35.00	300.00		325.00		35.00		304.60
R335360350RV*	**335.00**		335.00	360.00	35.00	335.00		360.00		35.00		310.99

RX - Buffer seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5800 psi (≤400 bar)	<16 ft/s (5 m/s)



Consisting of a PTFE sealing element and an elastomeric preloader, this buffer ring is similar to the **RZ-style** with a lower coefficient of break-out friction, and the possibility to seal in a double-acting application.

Alternate Materials : For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
R004008020RX*	**4.00**	+ 0.00 - 0.04					8.90	+ 0.00 - 0.04	2.20	+ 0.20 - 0.00	22.71
R005009020RX*	**5.00**						9.90		2.20		22.71

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Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
R006010020RX*	**6.00**	+ 0.00 - 0.04					10.90	+ 0.04 - 0.00	2.20	+ 0.20 - 0.00	22.71
R007011020RX*	**7.00**						11.90		2.20		22.71
R008012020RX*	**8.00**						12.90		2.20		22.71
R008015029RX*	**8.00**						15.30		3.20		22.71
R010014020RX*	**10.00**						14.90		2.20		23.10
R010017029RX*	**10.00**						17.30		3.20		23.10
R012016020RX	**12.00**						16.90		2.20		23.10
R012019029RX*	**12.00**						19.30		3.20		23.10
R014018020RX	**14.00**						18.90		2.20		23.10
R014021029RX*	**14.00**						21.30		3.20		23.10
R015022029RX*	**15.00**						22.30		3.20		23.10
R016020020RX*	**16.00**						20.90		2.20		23.10
R016023029RX	**16.00**						23.30		3.20		23.43
R018022020RX*	**18.00**						22.90		2.20		23.43
R018025029RX*	**18.00**						25.30		3.20		23.43
R020027029RX*	**20.00**						27.30	+ 0.05 - 0.00	3.20		23.43
R020030039RX	**20.00**						30.70		4.20		23.43
R022029029RX	**22.00**						29.30		3.20		23.43
R022032039RX*	**22.00**						32.70		4.20		23.43
R025032029RX*	**25.00**						32.30		3.20		23.43
R025035039RX*	**25.00**						35.70		4.20		23.43
R028038039RX	**28.00**						38.70		4.20		24.28
R030037029RX*	**30.00**						37.30		3.20		24.28
R030040039RX	**30.00**						40.70		4.20		24.28
R032039029RX	**32.00**						39.30		3.20		24.28
R032042039RX	**32.00**						42.70	+ 0.06 - 0.00	4.20		24.28
R035045039RX*	**35.00**						45.70		4.20		31.73
R036043029RX*	**36.00**						43.30		3.20		24.60
R036046039RX	**36.00**						46.70		4.20		24.60
R040050039RX	**40.00**						50.70		4.20		24.60
R040055059RX	**40.00**						55.10		6.30		23.68
R042057059RX*	**42.00**						57.10		6.30		74.60
R045055039RX	**45.00**						55.70		4.20		30.01
R045060059RX*	**45.00**						60.10		6.30		30.01
R048063059RX*	**48.00**						63.10		6.30		74.60
R050060039RX	**50.00**						60.70		4.20		30.01
R050065059RX	**50.00**						65.10		6.30		55.33
R052067059RX*	**52.00**						67.10	+ 0.07 - 0.00	6.30		84.67
R055070059RX*	**55.00**						70.10		6.30		50.07
R056066039RX*	**56.00**						66.70		4.20		72.04
R056071059RX*	**56.00**						71.10		6.30		32.73
R060070039RX	**60.00**						70.70		4.20		38.16
R060075059RX	**60.00**						75.10		6.30		50.07
R063078059RX	**63.00**						78.10		6.30		41.32
R065080059RX*	**65.00**	+ 0.00 - 0.05					80.10		6.30		48.26
R070085059RX	**70.00**						85.10		6.30		56.05

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RX series - BR.PTFE/NBR

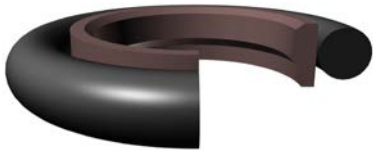
Ref.Number	Bore Diameter	Nominal Seal Dimensions				Housing Dimensions				$
	Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
R075090059RX*	**75.00** +0.00/-0.06					90.10	+ 0.07 - 0.00	6.30	+ 0.20 - 0.00	59.77
R080095059RX	**80.00** + 0.00 - 0.09					95.10		6.30		64.46
R085100059RX	**85.00**					100.10	+ 0.09 - 0.00	6.30		63.66
R090105059RX*	**90.00**					105.10		6.30		69.99
R095110059RX*	**95.00**					110.10		6.30		72.21
R100115059RX	**100.00**					115.10		6.30		73.40
R105120059RX*	**105.00** + 0.00 - 0.13					120.10		6.30		83.45
R110125059RX*	**110.00**					125.10		6.30		87.12
R115130059RX*	**115.00**					130.10		6.30		86.89
R120135059RX*	**120.00**					135.10		6.30		87.31
R125140059RX*	**125.00**					140.10	+ 0.10 - 0.00	6.30		88.29
R130145059RX*	**130.00**					145.10		6.30		88.98
R135150059RX*	**135.00**					150.10		6.30		121.08
R140155059RX*	**140.00**					155.10		6.30		89.85
R145160059RX*	**145.00**					160.10		6.30		124.62
R150165059RX	**150.00**					165.10		6.30		94.84
R155170059RX*	**155.00**					170.10		6.30		127.91
R160175059RX	**160.00**					175.10		6.30		97.61
R165180059RX	**165.00**					180.10		6.30		175.38
R170185059RX*	**170.00**					185.10		6.30		119.96
R180195059RX*	**180.00**					195.10		6.30		201.39
R180200076RX*	**180.00**					200.50		8.10		205.18
R190205059RX*	**190.00**					205.10	+ 0.12 - 0.00	6.30		211.44
R200220076RX	**200.00**					220.50		8.10		215.58
R210230076RX*	**210.00**					230.50		8.10		235.89
R220240076RX	**220.00**					240.50		8.10		236.41
R230250076RX*	**230.00**					250.50		8.10		246.48
R240260076RX*	**240.00**					260.50		8.10		265.75
R250270076RX*	**250.00**					270.50		8.10		321.61
R260284076RX*	**260.00**					284.00	+ 0.13 - 0.00	8.10		341.52
R260287089RX	**260.00**					287.30		9.50		392.22
R270294076RX*	**270.00**					294.00		8.10		361.44
R280304076RX*	**280.00**					304.00		8.10		362.22
R290314076RX	**290.00**					314.00		8.10		364.80
R300324076RX*	**300.00**					324.00		8.10		371.23
R310334076RX*	**310.00**					334.00	+ 0.14 - 0.00	8.10		382.40
R320344076RX*	**320.00**					344.00		8.10		389.60
R330354076RX*	**330.00**					354.00		8.10		391.88
R340364076RX*	**340.00**					364.00		8.10		411.24
R350374076RX*	**350.00**					374.00		8.10		434.60
R360384076RX*	**360.00**					384.00		8.10		480.91
R370394076RX*	**370.00**					394.00		8.10		524.60
R380404076RX*	**380.00**					404.00		8.10		586.99
R390414076RX*	**390.00**					414.00		8.10		588.90
R400424076RX*	**400.00**					424.00		8.10		591.20
R410434076RX*	**410.00**					434.00	+0.16/-0.00	8.10		594.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

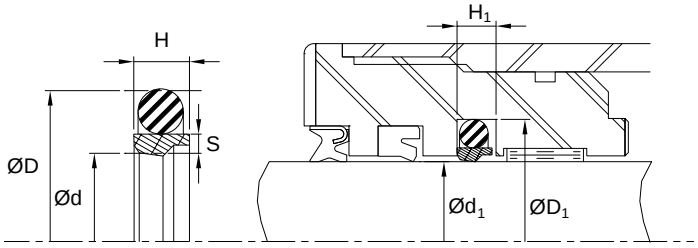
RX series - BR.PTFE/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
R420444076RX*	**420.00**	+ 0.00 - 0.13					444.00	+ 0.16 - 0.00	8.10	+ 0.20 - 0.00	597.23
R430454076RX*	**430.00**						454.00		8.10		601.20
R440464076RX*	**440.00**						464.00		8.10		605.20
R450474076RX*	**450.00**						474.00		8.10		608.21
R460484076RX*	**460.00**						484.00		8.10		611.20
R470494076RX*	**470.00**						494.00		8.10		614.87
R480504076RX*	**480.00**						504.00		8.10		618.99
R490514076RX*	**490.00**						514.00		8.10		621.40
R500524076RX*	**500.00**						524.00		8.10		625.80

RZ - Buffer seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F to +250°F (-45°C to +121°C)	≤5800 psi (≤400 bar)	<16 ft/s (5 m/s)



RZ-style has a filled-PTFE stepped-ring on the dynamic face and is pre-loaded by an elastomeric ring, and is used to protect the U-Cup type rod seal against pressure spikes.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions					Housing Dimensions				$
		Tol.	d	D	H	EXP.		d1	Tol.	H1	Tol.	
R004008020RZ*	**4.00**	+ 0.00 - 0.04						8.90	+ 0.04 - 0.00	2.20	+ 0.20 - 0.00	14.01
R005009020RZ*	**5.00**							9.90		2.20		14.36
R006010020RZ*	**6.00**							10.90		2.20		14.74
R007011020RZ*	**7.00**							11.90		2.20		14.99
R008012020RZ*	**8.00**							12.90		2.20		15.26
R008015029RZ*	**8.00**							15.30		3.20		15.81
R010014020RZ	**10.00**							14.90		2.20		18.66

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RZ series - BR.PTFE/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	H	EXP.	d1	Tol.	H1	Tol.	
R010017029RZ*	**10.00**	+ 0.00 - 0.04					17.30	+ 0.04 - 0.00	3.20	+ 0.20 - 0.00	18.66
R012016020RZ*	**12.00**						16.90		2.20		16.20
R012019029RZ*	**12.00**						19.30		3.20		14.50
R014018020RZ*	**14.00**						18.90		2.20		7.01
R014021029RZ*	**14.00**						21.30		3.20		18.66
R015022029RZ*	**15.00**						22.30		3.20		14.50
R016020020RZ	**16.00**						20.90		2.20		18.66
R016023029RZ	**16.00**						23.30		3.20		7.01
R018022020RZ*	**18.00**						22.90		2.20		14.01
R018025029RZ	**18.00**						25.30		3.20		7.35
R020027029RZ	**20.00**						27.30	+ 0.05 - 0.00	3.20		10.29
R020030039RZ*	**20.00**						30.70		4.20		10.29
R022029029RZ	**22.00**						29.30		3.20		10.48
R022032039RZ	**22.00**						32.70		4.20		10.48
R025032029RZ	**25.00**						32.30		3.20		10.68
R025035039RZ	**25.00**						35.70		4.20		27.15
R028038039RZ	**28.00**						38.70		4.20		19.64
R030037029RZ*	**30.00**						37.30		3.20		31.60
R030040039RZ	**30.00**						40.70		4.20		34.25
R032039029RZ	**32.00**						39.30		3.20		22.78
R032042039RZ	**32.00**						42.70	+ 0.06 - 0.00	4.20		11.39
R035045039RZ	**35.00**						45.70		4.20		12.31
R035050059RZ	**35.00**						50.10		6.30		35.88
R036043029RZ	**36.00**						43.30		3.20		12.46
R036046039RZ	**36.00**						46.70		4.20		12.31
R040050039RZ	**40.00**	+ 0.00 - 0.05					50.70		4.20		20.06
R040052039RZ	**40.00**						52.60		4.20		34.70
R040055059RZ	**40.00**						55.10		6.30		34.56
R042057059RZ*	**42.00**						57.10		6.30		60.32
R045055039RZ	**45.00**						55.70		4.20		24.43
R045058042RZ	**45.00**						57.60		4.20		33.31
R045060059RZ	**45.00**						60.10		6.30		24.43
R048063059RZ*	**48.00**						63.10		6.30		60.32
R050060039RZ	**50.00**						60.70		4.20		24.43
R050062042RZ	**50.00**						62.60		4.50		40.66
R050065059RZ	**50.00**						65.10		6.30		24.43
R050065059RZ/U	**50.00**						65.10		6.30		41.25
R052067059RZ*	**52.00**						67.10	+ 0.07 - 0.00	6.30		68.43
R055070059RZ	**55.00**						70.10		6.30		40.76
R056066039RZ	**56.00**						66.70		4.20		58.24
R056068042RZ	**56.00**						68.60		4.50		40.76
R056071059RZ	**56.00**						71.10		6.30		29.41
R060070039RZ	**60.00**						70.70		4.20		31.06
R060075059RZ	**60.00**						75.10		6.30		40.76
R063078059RZ	**63.00**						78.10		6.30		33.64
R065075039RZ	**65.00**						75.70		4.20		34.25

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Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	H	EXP.	d1	Tol.	H1	Tol.	
R065080059RZ	**65.00**	+ 0.00 - 0.06					80.10	+ 0.04 - 0.00	6.30	+ 0.20 - 0.00	39.30
R068083059RZ	**68.00**						83.10		6.30		41.66
R070085053RZ*	**70.00**						85.10		5.60		33.76
R070085059RZ	**70.00**						85.10		6.30		45.65
R075090059RZ	**75.00**						90.10		6.30		48.70
R080095059RZ	**80.00**	+ 0.00 - 0.09					95.10		6.30		52.49
R085100059RZ	**85.00**						100.10		6.30		51.84
R085100059RZ/U	**85.00**						100.10		6.30		127.34
R090105059RZ	**90.00**						105.10		6.30		57.00
R090105059RZ/U	**90.00**						105.10		6.30		96.55
R095110059RZ	**95.00**						110.10	+ 0.05 - 0.00	6.30		58.84
R095110059RZ/U	**95.00**						110.10		6.30		129.89
R095115076RZ	**95.00**						115.50		8.10		73.53
R100115059RZ	**100.00**						115.10		6.30		59.76
R105120059RZ	**105.00**	+ 0.00 - 0.13					120.10		6.30		68.00
R105120059RZ/U*	**105.00**						120.10		6.30		132.22
R105125076RZ	**105.00**						125.50		8.10		83.59
R110125059RZ	**110.00**						125.10		6.30		70.98
R110125059RZ/U	**110.00**						125.10		6.30		142.37
R110130076RZ	**110.00**						130.50		8.10		127.49
R115130059RZ	**115.00**						130.10	+ 0.06 - 0.00	6.30		70.79
R120135059RZ	**120.00**						135.10		6.30		71.11
R125140059RZ	**125.00**						140.10		6.30		71.91
R125146076RZ	**125.00**						146.00		8.10		101.33
R130145059RZ	**130.00**						145.10		6.30		72.44
R130151076RZ*	**130.00**						151.00		8.10		96.00
R135150059RZ	**135.00**						150.10		6.30		97.88
R140155059RZ	**140.00**						155.10		6.30		72.64
R140160076RZ	**140.00**						160.50		8.10		111.59
R145160059RZ	**145.00**						160.10		6.30		100.75
R150165059RZ	**150.00**						165.10		6.30		77.25
R150171076RZ*	**150.00**						171.00		8.10		118.59
R155170059RZ	**155.00**						170.10		6.30		103.38
R160175059RZ	**160.00**						175.10		6.30		79.52
R160181076RZ	**160.00**						181.00		8.10		141.60
R165180059RZ*	**165.00**						180.10		6.30		141.79
R170185059RZ	**170.00**						185.10		6.30		97.74
R170190076RZ*	**170.00**						190.50	+ 0.07 - 0.00	8.10		152.50
R180195059RZ	**180.00**						195.10		6.30		162.82
R190205059RZ*	**190.00**						205.10		6.30		170.92
R200220076RZ	**200.00**						220.50		8.10		174.26
R210230076RZ	**210.00**						230.50		8.10		190.69
R220240076RZ	**220.00**						240.50		8.10		191.10
R230250076RZ	**230.00**						250.50		8.10		199.24
R230250076RZ/30K*	**230.00**						250.50		8.10		251.38
R240260076RZ*	**240.00**						260.50		8.10		214.83

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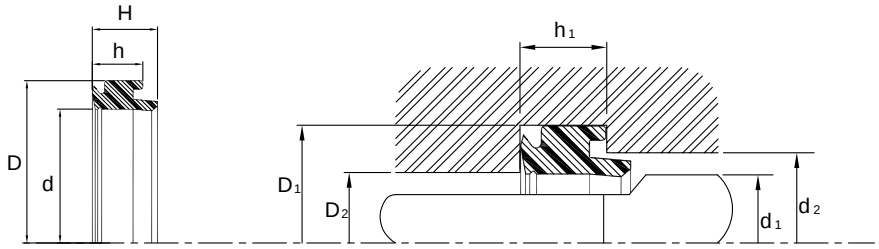
RZ series - BR.PTFE/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	H	EXP.	d1	Tol.	H1	Tol.	
R250270076RZ	**250.00**	+ 0.00 - 0.13					270.50	+ 0.13 - 0.00	8.10	+ 0.20 - 0.00	259.99
R260284076RZ*	**260.00**						284.00		8.10		276.09
R270294076RZ*	**270.00**						294.00		8.10		292.17
R280304076RZ	**280.00**						304.00		8.10		292.81
R290314076RZ*	**290.00**						314.00		8.10		311.20
R300324076RZ*	**300.00**						324.00		8.10		316.88
R300324076RZ/N*	**300.00**						324.00		8.10		128.17
R310334076RZ*	**310.00**						334.00	+ 0.14 - 0.00	8.10		329.60
R320344076RZ*	**320.00**						344.00		8.10		339.99
R330354076RZ*	**330.00**						354.00		8.10		374.60
R340364076RZ	**340.00**						364.00		8.10		421.80
R340364076RZ/U	**340.00**						364.00		8.10		477.69
R350374076RZ*	**350.00**						374.00		8.10		461.20
R360384076RZ*	**360.00**						384.00		8.10		458.20
R370394076RZ*	**370.00**						394.00		8.10		470.80
R380404076RZ	**380.00**						404.00		8.10		471.67
R380404076RZ/U	**380.00**						404.00		8.10		310.50
R390414076RZ*	**390.00**						414.00		8.10		409.40
R400424076RZ*	**400.00**						424.00		8.10		427.71
R410434076RZ*	**410.00**						434.00	+ 0.16 - 0.00	8.10		439.06
R420444076RZ*	**420.00**						444.00		8.10		455.80
R430454076RZ*	**430.00**						454.00		8.10		466.42
R440464076RZ*	**440.00**						464.00		8.10		475.05
R450474076RZ*	**450.00**						474.00		8.10		477.30
R460484076RZ*	**460.00**						484.00		8.10		478.44
R470494076RZ*	**470.00**						494.00		8.10		528.10
R480504076RZ*	**480.00**						504.00		8.10		570.21
R490514076RZ*	**490.00**						514.00		8.10		623.78
R500524076RZ*	**500.00**						524.00		8.10		643.09
R520544076RZ*	**520.00**						544.00		8.10		647.29

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Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-31 °F to +176 °F (-35 °C to +80 °C)	≤300 psi (≤20 bar)	< 3.3 ft/s (1 m/s)



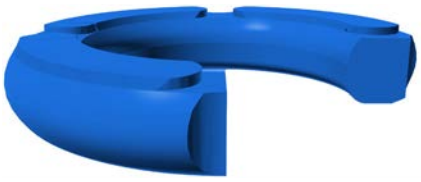
R5/U-Style provide end-of-stroke damping in pneumatic cylinders, eliminating the need for check valves. These polyurethane sealing elements are user-friendly and provide quick response in reverse direction, as well as easy, snap-in installation.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

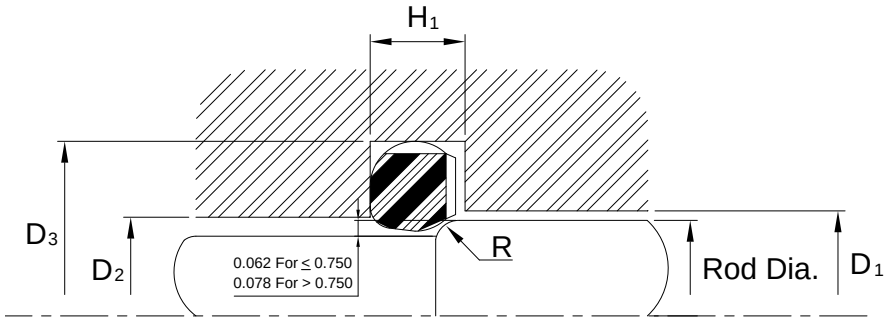
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions								$
	d1	Tol.	d	D	h	H	d2	Tol.	D1	Tol.	D2	Tol.	h1	Tol.	
R008011027R5/U*	**8.00**	-.000 -.090	8.00	11.60	2.70	3.50	10.00	-.090/-.000	11.60	-.110 -.000	8.50	-.090 -.000	3.30	-.100 -.100	17.82
R009015039R5/U	**9.50**		9.50	15.00	3.90	5.00	12.00	-.110 -.000	15.00		10.00		4.50		17.82
R010018062R5/U	**10.00**	-.000 -.110	10.00	18.00	6.20	8.00	15.00		18.00		11.00	-.110 -.000	7.00		17.82
R012018048R5/U	**12.00**		12.00	18.00	4.20	5.20	15.50		18.00		13.00		4.80		#N/A
R012020062R5/U	**12.00**		12.00	20.00	6.20	8.00	17.00		20.00		13.00		7.00		17.82
R014020062R5/U	**14.00**		14.00	20.00	6.20	8.00	17.50		20.00	-.130 -.000	15.00		7.00		#N/A
R014022062R5/U	**14.00**		14.00	22.00	6.20	8.00	19.00	-.130 -.000	22.00		15.00		7.00		17.82
R016022045R5/U	**16.00**		16.00	22.00	4.40	5.60	19.50		22.00		17.00		5.20		17.82
R016024062R5/U	**16.00**		16.00	24.00	6.20	8.00	21.00		24.00		17.00		7.00		17.82
R018026062R5/U	**18.00**		18.00	26.00	6.20	8.00	23.00		26.00		19.00	-.130 -.000	7.00		17.82
R020028062R5/U	**20.00**	-.000 -.130	20.00	28.00	6.20	8.00	24.00		28.00		21.00		7.00		17.82
R022030062R5/U	**22.00**		22.00	30.00	6.20	8.00	26.00		30.00		23.00		7.00		17.82
R024032062R5/U	**24.00**		24.00	32.00	6.20	8.00	28.00		32.00	-.160 -.000	25.00		7.00		17.82
R025033062R5/U	**25.00**		25.00	33.00	6.20	8.00	29.00		33.00		26.00		7.00		17.82
R028036062R5/U	**28.00**		28.00	36.00	6.20	8.00	32.00	-.160 -.000	36.00		29.00		7.00		17.82
R030040062R5/U	**30.00**		30.00	40.00	6.20	8.00	35.00		40.00		31.50	-.160 -.000	7.00		#N/A
R032042062R5/U	**32.00**	-.000 -.160	32.00	42.00	6.20	8.00	37.00		42.00		33.50		7.00		#N/A
R036046062R5/U	**36.00**		36.00	46.00	6.20	8.00	41.00		46.00		37.50		7.00		21.37
R040050062R5/U	**40.00**		40.00	50.00	6.20	8.00	45.00		50.00		41.50		7.00		21.37
R050060062R5/U	**50.00**		50.00	60.00	6.20	8.00	55.00		60.00	-.190/-.000	51.50	-.190/-.000	7.00		8.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

R6 Cushion seals - Inch



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-50°F to +180°F (-45°C to +80°C)	≤230 psi (≤15 bar)	<3.3 ft/s (1 m/s)



The **R6-style** provides a check-valve action used in the cushioning of pneumatic cylinders. It seals positively on the cylinder end stroke and allows a quick release in the opposite direction through a series of slots and pedestals, allowing the pressure to blow past the seal.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions									$
	d1	Tol.	d	D	H	D1	Tol.	D2	Tol.	D3	Tol.	H1	Tol.	R	
R010018040R6*	**10.00**	+0.00 -0.04	10.00	18.00	4.00	12.00	+0.11 -0.00	10.50	+0.00/-0.09	18.00	+0.11/-0.00	4.80	+0.20 -0.20	3.00	28.54
R012020040R6*	**12.00**		12.00	20.00	4.00	14.00		12.50	+0.11 -0.00	20.00	+0.13 -0.00	4.80		3.00	13.87
R014022040R6*	**14.00**		14.00	22.00	4.00	16.00		14.50		22.00		4.80		3.00	14.54
R016024040R6	**16.00**		16.00	24.00	4.00	18.00		16.50		24.00		4.80		3.00	15.40
R018026040R6*	**18.00**		18.00	26.00	4.00	20.00	+0.13 -0.00	18.50	+0.13 -0.00	26.00		4.80		3.00	16.25
R020028040R6*	**20.00**		20.00	28.00	4.00	22.00		20.50		28.00		4.80		3.00	16.74
R022030040R6	**22.00**		22.00	30.00	4.00	24.00		22.50		30.00		4.80		3.00	17.05
R024032040R6*	**24.00**		24.00	32.00	4.00	26.00		24.50		32.00		4.80		3.00	17.54
R025033040R6*	**25.00**		25.00	33.00	4.00	27.00		25.50		33.00		4.80		3.00	18.27
R026036050R6*	**26.00**		26.00	36.00	5.00	28.00		26.60		36.00		6.00		3.00	18.76
R028038050R6*	**28.00**		28.00	38.00	5.00	30.00		28.60		38.00	+0.16 -0.00	6.00		4.00	19.25
R030040050R6*	**30.00**		30.00	40.00	5.00	32.00	+0.16 -0.00	30.60	+0.16 -0.00	40.00		6.00		4.00	19.86
R032042050R6*	**32.00**		32.00	42.00	5.00	34.00		32.60		42.00		6.00		4.00	20.47
R034044050R6*	**34.00**		34.00	44.00	5.00	36.00		34.60		44.00		6.00		4.00	20.90
R035045050R6*	**35.00**		35.00	45.00	5.00	37.00		35.60		45.00		6.00		4.00	21.26
R036046050R6*	**36.00**		36.00	46.00	5.00	38.00		36.60		46.00		6.00		4.00	21.81
R038048050R6	**38.00**		38.00	48.00	5.00	40.00		38.60		48.00		6.00		4.00	22.43
R040050050R6*	**40.00**	+0.00 -0.05	40.00	50.00	5.00	42.00		40.60	+0.19 -0.00	50.00		6.00		4.00	23.10
R045055050R6*	**45.00**		45.00	55.00	5.00	47.00		45.60		55.00	+0.19 -0.00	6.00		4.00	23.40
R050060050R6	**50.00**		50.00	60.00	5.00	52.00	+0.19 -0.00	50.60		60.00		6.00		4.00	23.77
R055069070R6*	**55.00**		55.00	69.00	7.00	58.00		55.60		69.00		8.40		5.00	24.32
R060074070R6*	**60.00**		60.00	74.00	7.00	63.00		60.60		74.00		8.40		5.00	24.63
R063077070R6*	**63.00**		63.00	77.00	7.00	66.00		63.60		77.00		8.40		5.00	51.69

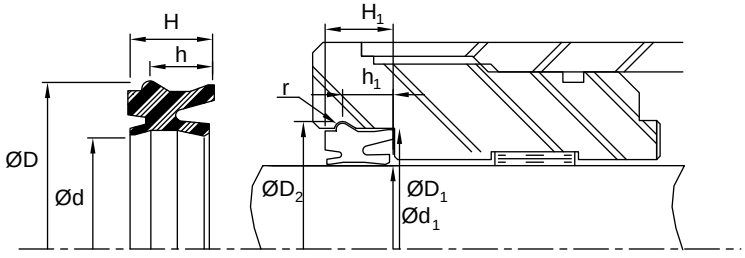
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions									$
	d1	Tol.	d	D	H	D1	Tol.	D2	Tol.	D3	Tol.	H1	Tol.	R	
R065079070R6*	**65.00**	+ 0.00 - 0.06	65.00	79.00	7.00	68.00	+ 0.19 - 0.00	65.60	+ 0.19 - 0.00	79.00	+0.19/-0.00	8.40	+ 0.20 - 0.20	5.00	47.60
R070084070R6	**70.00**		70.00	84.00	7.00	73.00		70.60		84.00	+ 0.22 - 0.00	8.40		5.00	50.23
R080094070R6*	**80.00**	+ 0.00 - 0.09	80.00	94.00	7.00	83.00	+ 0.22 - 0.00	80.60	+ 0.22 - 0.00	94.00		8.40		5.00	52.31
R100114070R6	**100.00**		100.00	114.00	7.00	103.00		100.60		114.00		8.40		5.00	53.10
R110124070R6*	**110.00**	+0.00/-0.13	110.00	124.00	7.00	113.00		110.60		124.00		8.40		5.00	54.44

R8 - Rod Wiper Seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-22°F to +176°F (-30°C to +80°C)	≤232 psi (≤16 bar)	<3.3 ft/s (1 m/s)



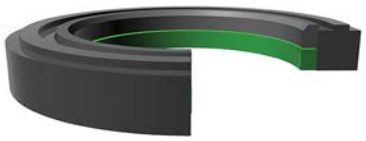
R8-style pneumatic rod seal is a sealing element with scraping, sealing features with its special design that also allows to be assembled to open grooves without the need of any circlip.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

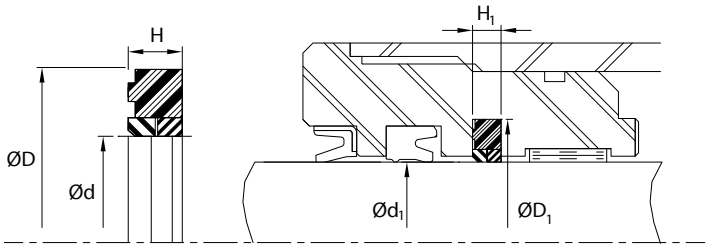
Ref.Number	Rod Diameter		Nominal Seal Dimensions				Housing Dimensions									$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	H1	Tol.	h2	Tol.	Rad.	
R012022104R8*	**12.00**	+ 0.00 - 0.04	12.00	22.00	7.00	10.40	22.00	+ 0.10 - 0.10	24.20	+ 0.10 - 0.10	13.00	+ 0.50 - 0.00	7.50	+ 0.25 - 0.25	1.10	12.90
R016026104R8	**16.00**		16.00	26.00	7.00	10.40	26.00		28.20		13.00		7.50		1.10	13.16
R018028104R8*	**18.00**		18.00	28.00	7.00	10.40	28.00		30.00		13.00		7.50		1.10	13.58
R020030104R8	**20.00**		20.00	30.00	7.00	10.40	30.00		32.20		13.00		7.50		1.10	14.79
R025035104R8	**25.00**		25.00	35.00	7.30	10.40	35.00		37.80		13.00		8.00		1.40	15.81
R032042104R8	**32.00**		32.00	42.00	7.30	10.40	42.00		44.80		13.00		8.00		1.40	17.26
R040050104R8	**40.00**		40.00	50.00	7.30	10.40	50.00		52.80		13.00		8.00		1.40	23.71
R050060104R8*	**50.00**		50.00	60.00	7.70	10.40	60.00		63.60		13.00		8.50		1.78	25.84

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

R12 - Buffer seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nylon/PTFE/Nitrile	-40°F to +220°F (-40°C to +104°C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)



Similar in function to the **RZ-style**, this design adds a nylon anti-extrusion ring to allow for higher pressures.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R040055059R12*	**40.00**	+ 0.00 - 0.05	40.00	55.50	5.90	40.00	+ 0.00 - 0.05	55.50	+ 0.19 - 0.00	6.30	+ 0.20 - 0.00	46.66
R045060059R12*	**45.00**		45.00	60.50	5.90	45.00		60.50		6.30		50.11
R050065059R12*	**50.00**		50.00	65.50	5.90	50.00		65.50		6.30		52.10
R055070059R12*	**55.00**		55.00	70.50	5.90	55.00		70.50		6.30		54.03
R060075059R12*	**60.00**		60.00	75.50	5.90	60.00		75.50		6.30		58.20
R065080059R12	**65.00**	+ 0.00 - 0.06	65.00	80.50	5.90	65.00	+ 0.00 - 0.06	80.50	+ 0.22 - 0.00	6.30		62.32
R070085059R12	**70.00**		70.00	85.50	5.90	70.00		85.50		6.30		66.44
R075090059R12*	**75.00**		75.00	90.50	5.90	75.00		90.50		6.30		70.61
R080095059R12*	**80.00**	+ 0.00 - 0.09	80.00	95.50	5.90	80.00	+ 0.00 - 0.09	95.50		6.30		74.80
R085100059R12*	**85.00**		85.00	100.50	5.90	85.00		100.50		6.30		78.94
R090105059R12*	**90.00**		90.00	105.50	5.90	90.00		105.50		6.30		83.08
R095110059R12	**95.00**		95.00	110.50	5.90	95.00		110.50		6.30		87.19
R100115059R12*	**100.00**		100.00	115.50	5.90	100.00		115.50		6.30		95.50
R105120059R12*	**105.00**	+ 0.00 - 0.13	105.00	120.50	5.90	105.00	+ 0.00 - 0.13	120.50	+ 0.25 - 0.00	6.30		99.66
R110125059R12*	**110.00**		110.00	125.50	5.90	110.00		125.50		6.30		103.89
R115130059R12*	**115.00**		115.00	130.50	5.90	115.00		130.50		6.30		108.00
R120135059R12*	**120.00**		120.00	135.50	5.90	120.00		135.50		6.30		114.34
R125140059R12*	**125.00**		125.00	140.50	5.90	125.00		140.50		6.30		114.79
R130145059R12*	**130.00**		130.00	145.50	5.90	130.00		145.50		6.30		125.78
R135150059R12*	**135.00**		135.00	150.50	5.90	135.00		150.50		6.30		134.11
R140155059R12*	**140.00**		140.00	155.50	5.90	140.00		155.50		6.30		145.38
R150165059R12*	**150.00**		150.00	165.50	5.90	150.00		165.50		6.30		134.95
R160175059R12*	**160.00**		160.00	175.50	5.90	160.00		175.50		6.30		147.43

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

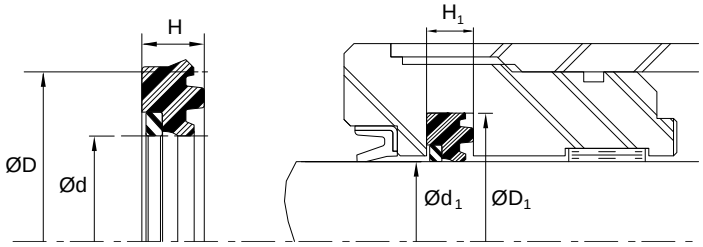
R12 series - NYLON/PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R170185059R12*	**170.00**	+ 0.00 - 0.13	170.00	185.50	5.90	170.00	+ 0.00 - 0.13	185.50	+ 0.29 - 0.00	6.30	+ 0.20 - 0.00	158.69
R180195059R12*	**180.00**		180.00	195.50	5.90	180.00		195.50		6.30		173.98

R13 - Buffer seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-31 °F to +230 °F (-35 °C to +110 °C)	≤14 504 psi (≤1000 bar)	< 1.6 ft/s (0.5 m/s)



R13-style is a compact seal with an integrated anti-extrusion ring, commonly used as a buffer seal. Installed upstream, it protects the secondary seal from pressure peaks of up to 1000 bar and, due to its special shape, relieves trapped pressure by returning it to the system.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

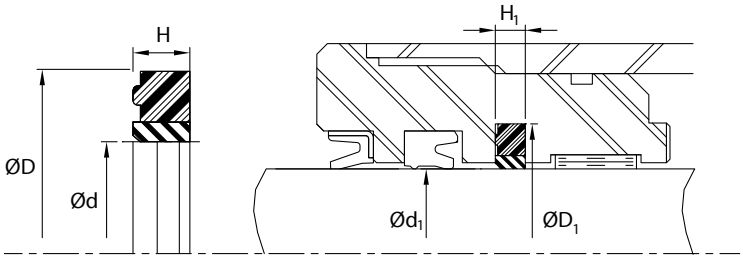
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R060075085R13	**60.00**	+0.00/-0.05	60.00	75.00	8.50	60.00	+0.00/-0.05	75.00	+ 0.20 - 0.00	9.50	+ 0.20 - 0.00	121.04
R070085085R13	**70.00**	+0.00/-0.06	70.00	85.00	8.50	70.00	+0.00/-0.06	85.00		9.50		116.21
R080095085R13	**80.00**	+ 0.00 - 0.09	80.00	95.00	8.50	80.00	+ 0.00 - 0.09	95.00		9.50		123.60
R090105085R13	**90.00**		90.00	105.00	8.50	90.00		105.00		9.50		110.00
R100120114R13	**100.00**		100.00	120.00	11.40	100.00		120.00		12.50		134.20
R110130114R13*	**110.00**	+ 0.00 - 0.13	110.00	130.00	11.40	110.00	+ 0.00 - 0.13	130.00		12.50		168.23
R120140114R13	**120.00**		120.00	140.00	11.40	120.00		140.00		12.50		138.40
R130150145R13	**130.00**		130.00	150.00	14.50	130.00		150.00		16.00		278.01
R140160145R13	**140.00**		140.00	160.00	14.50	140.00		160.00		16.00		268.20
R160180145R13	**160.00**		160.00	180.00	14.50	160.00		180.00		16.00		272.40
R170195145R13*	**170.00**		170.00	195.00	14.50	170.00		195.00		16.00		1265.24
R180205145R13	**180.00**		180.00	205.00	14.50	180.00		205.00		16.00		770.70
R200225145R13*	**200.00**		200.00	225.00	14.50	200.00		225.00		16.00		465.27
R220250182R13	**220.00**		220.00	250.00	18.20	220.00		250.00		20.00		777.48

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

R14 - Buffer seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-40°F to +220°F (-40°C to +104°C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)



Consisting of a PTFE sealing element and an elastomeric preloader, this buffer ring design absorbs shock from pressure spikes and reduces back pressure through slots on the pressure side of the energizer.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R040055059R14*	**40.00**	+ 0.00 - 0.05	40.00	55.50	5.90	40.00	+ 0.00 - 0.05	55.50	+ 0.19 - 0.00	6.30	+ 0.20 - 0.00	14.97
R045060059R14*	**45.00**		45.00	60.50	5.90	45.00		60.50		6.30		16.16
R050065059R14*	**50.00**		50.00	65.50	5.90	50.00		65.50		6.30		21.08
R055070059R14*	**55.00**		55.00	70.50	5.90	55.00		70.50		6.30		30.58
R060075059R14*	**60.00**		60.00	75.50	5.90	60.00		75.50		6.30		33.04
R065080059R14*	**65.00**	+ 0.00 - 0.06	65.00	80.50	5.90	65.00	+ 0.00 - 0.06	80.50	+ 0.22 - 0.00	6.30		35.38
R070085059R14*	**70.00**		70.00	85.50	5.90	70.00		85.50		6.30		37.77
R075090059R14*	**75.00**		75.00	90.50	5.90	75.00		90.50		6.30		40.15
R080095059R14*	**80.00**	+ 0.00 - 0.09	80.00	95.50	5.90	80.00	+ 0.00 - 0.09	95.50		6.30		42.47
R085100059R14*	**85.00**		85.00	100.50	5.90	85.00		100.50		6.30		44.84
R090105059R14	**90.00**		90.00	105.50	5.90	90.00		105.50		6.30		47.20
R095110059R14*	**95.00**		95.00	110.50	5.90	95.00		110.50		6.30		49.61
R100115059R14*	**100.00**		100.00	115.50	5.90	100.00		115.50		6.30		54.27
R105120059R14*	**105.00**	+ 0.00 - 0.13	105.00	120.50	5.90	105.00	+ 0.00 - 0.13	120.50	+ 0.25 - 0.00	6.30		56.69
R110125059R14*	**110.00**		110.00	125.50	5.90	110.00		125.50		6.30		59.04
R115130059R14*	**115.00**		115.00	130.50	5.90	115.00		130.50		6.30		37.97
R120135059R14*	**120.00**		120.00	135.50	5.90	120.00		135.50		6.30		61.40
R125140059R14*	**125.00**		125.00	140.50	5.90	125.00		140.50		6.30		61.96
R130145059R14	**130.00**		130.00	145.50	5.90	130.00		145.50		6.30		42.74
R135150059R14*	**135.00**		135.00	150.50	5.90	135.00		150.50		6.30		61.20
R140155059R14*	**140.00**		140.00	155.50	5.90	140.00		155.50		6.30		63.62
R145160059R14*	**145.00**		145.00	160.50	5.90	145.00		160.50		6.30		79.20
R150165059R14	**150.00**		150.00	165.50	5.90	150.00		165.50		6.30		76.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R155170059R14*	**155.00**	+ 0.00 - 0.13	155.00	170.50	5.90	155.00	+ 0.00 - 0.13	170.50	+0.25/-0.00	6.30	+ 0.20 - 0.00	214.62
R160175059R14	**160.00**		160.00	175.50	5.90	160.00		175.50	+ 0.29 - 0.00	6.30		142.80
R165180059R14*	**165.00**		165.00	180.50	5.90	165.00		180.50		6.30		259.76
R170185059R14	**170.00**		170.00	185.50	5.90	170.00		185.50		6.30		297.62
R180200076R14	**180.00**		180.00	200.00	7.60	180.00		200.50		8.10		340.17
R200220076R14	**200.00**		200.00	220.00	7.60	200.00		220.50		8.10		374.11
R210230076R14*	**210.00**		210.00	230.00	7.60	210.00		230.50		8.10		404.36
R220240076R14	**220.00**		220.00	240.00	7.60	220.00		240.50		8.10		408.04
R230250076R14	**230.00**		230.00	250.00	7.60	230.00		250.50		8.10		425.02
R250270076R14	**250.00**		250.00	270.00	7.60	250.00		270.50		8.10		461.84
R260287095R14	**260.00**		260.00	287.30	8.90	260.00		287.30		9.50		487.44
R270297095R14*	**270.00**		270.00	297.30	8.90	270.00		297.30		9.50		561.20
R300327095R14	**300.00**		300.00	327.30	8.90	300.00		327.30		9.50		559.35
R340367095R14*	**340.00**		340.00	367.30	8.90	340.00		367.30		9.50		1206.27

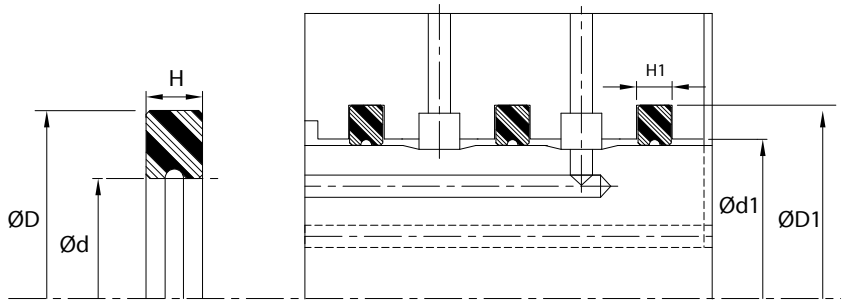
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



R19 - Rod seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-22°F to +176°F (-30°C to +80°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)



R19 profile rod seals is specifically designed for use in rotary swivel joints, and is manufactured out of high specification polyurethane.

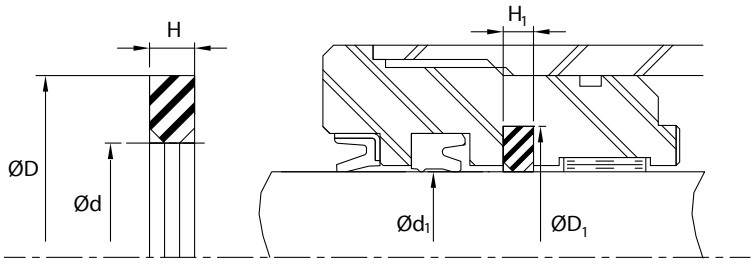
Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R060070053R19	**60.00**	+0.00/-0.05	60.00	70.00	4.90	60.00	+0.00/-0.05	70.00	+0.12 -0.00	5.30	+0.30 -0.00	48.38
R070080053R19*	**70.00**	+0.00 -0.06	70.50	81.00	4.90	70.00	+0.00 -0.06	80.00		5.30		44.17
R075085053R19*	**75.00**		75.30	85.80	4.90	75.00		85.00	+0.14 -0.00	5.30		46.14
R080091053R19	**80.00**	+0.00 -0.09	80.50	91.00	4.90	80.00	+0.00 -0.09	90.00		5.30		45.51
R085096053R19*	**85.00**		85.50	96.00	4.90	85.00		95.00		5.30		50.23
R090101053R19	**90.00**		90.50	101.00	4.90	90.00		100.00		5.30		53.53
R095106053R19	**95.00**		95.50	106.00	4.90	95.00		105.00		5.30		54.07
R100111053R19	**100.00**		100.50	111.00	4.90	100.00		110.00		5.30		64.57
R105116053R19*	**105.00**	+0.00 -0.13	105.50	116.00	4.90	105.00	+0.00 -0.13	115.00		5.30		55.97
R110121053R19*	**110.00**		110.50	121.00	4.90	110.00		120.00		5.30		55.43
R115126053R19*	**115.00**		115.50	126.00	4.90	115.00		125.00	+0.16 -0.00	5.30		55.89
R120131053R19	**120.00**		120.50	131.00	4.90	120.00		130.00		5.30		56.39
R125136053R19*	**125.00**		125.50	136.00	4.90	125.00		135.00		5.30		70.84
R130141053R19*	**130.00**		131.10	141.60	4.90	130.00		140.00		5.30		73.44
R135146053R19*	**135.00**		136.10	146.60	4.90	135.00		145.00		5.30		76.32
R140151053R19*	**140.00**		141.10	151.60	4.90	140.00		150.00		5.30		81.61
R145156053R19*	**145.00**		146.10	156.60	4.90	145.00		155.00		5.30		83.93
R150161053R19*	**150.00**		151.10	161.60	4.90	150.00		160.00		5.30		87.09
R155166053R19*	**155.00**		156.10	166.60	4.90	155.00		165.00		5.30		89.32
R160171053R19*	**160.00**		161.10	171.60	4.90	160.00		170.00		5.30		92.38

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-40°F to +250°F (-40°C to +121°C)	≤5000 psi (≤345 bar)	<3 ft/s (0.9 m/s)



This simple, flat urethane buffer seals protect the secondary rod seal from pressure spikes.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

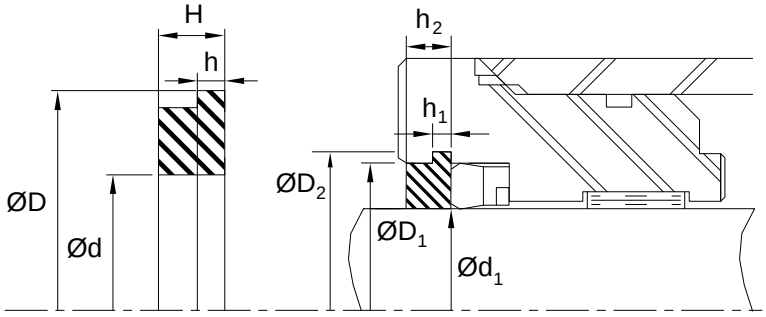
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R025033023R20*	**25.00**	+ 0.00 - 0.04	25.00	33.60	2.30							36.20
R030041029R20	**30.00**		30.00	41.00	2.90							38.29
R035046029R20	**35.00**		35.00	46.00	2.90							12.36
R035048030R20	**35.00**		35.00	48.00	3.00							14.26
R040048030R20	**40.00**	+ 0.00 - 0.05	40.00	48.00	3.00							14.65
R050058029R20	**50.00**		50.00	58.00	2.90							19.86
R050062030R20	**50.00**		50.00	62.00	3.00							10.45
R050063040R20*	**50.00**		50.00	62.60	4.00							16.36
R056068040R20*	**56.00**		56.00	68.60	4.00							17.99
R056070030R20*	**56.00**		56.00	70.00	3.00							18.01
R056073048R20	**56.00**		56.00	73.00	4.80							16.53
R063080047R20	**63.00**		63.00	80.00	4.70							17.54
R065078040R20*	**65.00**		65.00	78.00	4.00							19.03
R070083040R20	**70.00**	+ 0.00 - 0.06	70.00	83.00	4.00							21.08
R070084030R20*	**70.00**		70.00	84.00	3.00							22.06
R075088040R20*	**75.00**		75.00	88.00	4.00							22.99
R080093040R20*	**80.00**	+ 0.00 - 0.09	80.00	93.00	4.00							23.91
R090104040R20*	**90.00**		90.00	104.00	4.00							23.96
R100113040R20*	**100.00**		100.00	113.00	4.00							21.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RI - Retainer rings - Metric



Standard Material	Temperature Range
Polyacetal	-22°F to +212°F (-30°C to +100°C)



These split rings made of acetal material are primarily used as retaining devices when used in conjunction with **RR-style** rod seals.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions					$
	d	D1	D2	h1	h2	
R016024045RI*	16.00	24.00	25.20	1.30	4.50	4.01
R020030045RI*	20.00	30.00	31.40	1.30	4.50	4.65
R025035050RI*	25.00	35.00	37.00	1.60	5.00	4.89
R030040050RI*	30.00	40.00	42.50	1.85	5.00	5.21
R032040050RI*	32.00	40.00	42.50	1.85	5.00	5.67
R032042050RI*	32.00	42.00	44.50	1.85	5.00	6.01
R035045050RI*	35.00	45.00	47.50	1.85	5.00	6.23
R035050050RI*	35.00	50.00	53.00	2.15	5.00	6.88
R036046050RI*	36.00	46.00	48.50	1.85	5.00	7.01
R040050050RI	40.00	50.00	53.00	2.15	5.00	7.24
R040055050RI*	40.00	55.00	58.00	2.15	5.00	8.79
R045055050RI*	45.00	55.00	58.00	2.15	5.00	8.99
R045065050RI*	45.00	65.00	67.50	2.65	5.00	9.01
R050060050RI	50.00	60.00	63.00	2.15	5.00	9.65
R050065060RI*	50.00	65.00	68.00	2.65	6.00	17.16

Ref.Number	Nominal Seal Dimensions					$
	d	D1	D2	h1	h2	
R050070060RI*	50.00	70.00	73.00	2.65	6.00	10.88
R056066060RI*	56.00	66.00	69.00	2.65	6.00	11.65
R056071060RI*	56.00	71.00	74.00	2.65	6.00	12.88
R060075060RI*	60.00	75.00	78.00	2.65	6.00	14.01
R060080060RI*	60.00	80.00	83.00	2.65	6.00	15.99
R063078060RI	63.00	78.00	81.00	2.65	6.00	16.02
R063083060RI*	63.00	83.00	86.00	2.56	6.00	16.43
R070085075RI*	70.00	85.00	88.50	3.15	7.50	17.01
R075090075RI*	75.00	90.00	93.50	3.15	7.50	17.23
R080095075RI*	80.00	95.00	98.50	3.15	7.50	17.87
R080100060RI*	80.00	100.00	103.50	3.15	6.00	18.06
R090105075RI*	90.00	105.00	109.00	4.15	7.50	18.24
R100120060RI*	100.00	120.00	124.00	4.15	6.00	19.08
R110130100RI*	110.00	130.00	134.00	4.15	10.00	20.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.

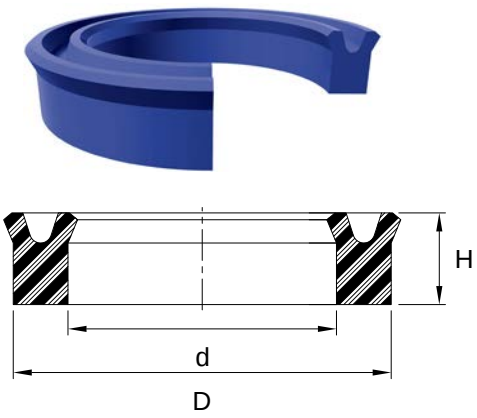






	A	K	2
	B	K	14

A - Rod/Piston Seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-22°F to +212°F (-30°C to +100°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)

A-Style rod/piston type U-Cups are symmetrical in design and can thus be used for either piston or rod applications. These seals are suitable for both solid and split housings, though heavier cross-sections may require the use of an installation tool.

Made out of robust polyurethane material, these seals are well suited for demanding applications, especially in mobile hydraulics.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP003008035A*	3.00	8.00	3.50	3.89
RP003010060A*	3.00	10.00	6.00	4.75
RP004009040A*	4.50	9.50	4.00	4.86
RP004010040A	4.00	10.00	4.00	5.47
RP004010045A*	4.00	10.00	4.50	5.47
RP004010060A*	4.00	10.00	6.00	4.97
RP004011050A*	4.00	11.00	5.00	4.86
RP004012040A	4.00	12.00	4.00	4.86
RP004012044A*	4.00	12.00	4.40	8.99
RP004012045A*	4.50	12.50	4.50	5.93
RP004012055A*	4.00	12.00	5.50	4.75
RP005010040A*	5.00	10.00	4.00	4.75
RP005010050A*	5.00	10.00	5.00	4.75
RP005011050A*	5.00	11.00	5.00	13.65
RP005011070A*	5.00	11.00	7.00	4.75
RP005011080A*	5.00	11.00	8.00	4.86
RP005012050A	5.00	12.00	5.00	4.75
RP005012055A*	5.00	12.00	5.50	7.74
RP005012060A	5.00	12.00	6.00	5.23
RP005012080A*	5.00	12.00	8.00	4.86
RP005014045A*	5.00	14.00	4.50	4.86
RP005014060A*	5.00	14.00	6.00	4.86
RP005014080A*	5.00	14.00	8.00	23.86

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP005016060A*	5.00	16.00	6.00	4.86
RP005016080A*	5.00	16.00	8.00	5.34
RP006010030A*	6.00	10.00	3.00	4.75
RP006012040A*	6.00	12.00	4.00	6.34
RP006012050A*	6.00	12.00	5.00	4.86
RP006012055A	6.00	12.00	5.50	4.86
RP006012060A	6.00	12.00	6.00	6.34
RP006012070A*	6.00	12.00	7.00	5.18
RP006012080A*	6.00	12.00	8.00	9.02
RP006013050A*	6.00	13.00	5.00	5.61
RP006013050A-1*	6.00	13.50	5.00	4.86
RP006013080A*	6.00	13.00	8.00	22.27
RP006014040A*	6.00	14.00	4.00	5.18
RP006014050A*	6.00	14.00	5.00	4.86
RP006014060A*	6.00	14.00	6.00	4.86
RP006014080A*	6.00	14.00	8.00	4.86
RP006015050A*	6.00	15.00	5.00	5.61
RP006015060A*	6.00	15.00	6.00	4.86
RP006015080A*	6.00	15.00	8.00	11.16
RP006016050A*	6.00	16.00	5.00	5.83
RP006016060A*	6.00	16.00	6.00	5.61
RP006016080A*	6.00	16.00	8.00	5.09
RP006016080A-1*	6.30	16.30	8.00	5.23

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP006018080A*	6.00	18.00	8.00	5.83
RP006020080A*	6.00	20.00	8.00	8.85
RP007013035A*	7.00	13.00	3.50	4.97
RP007014035A*	7.00	14.00	3.50	5.49
RP007014070A*	7.00	14.00	7.00	5.83
RP007015050A*	7.00	15.00	5.00	5.61
RP007015070A*	7.00	15.00	7.00	5.18
RP007017080A*	7.10	17.10	8.00	5.60
RP008012040A*	8.00	12.00	4.00	4.97
RP008014040A*	8.00	14.00	4.00	5.40
RP008014060A	8.00	14.00	6.00	5.23
RP008014080A*	8.00	14.00	8.00	4.86
RP008015050A*	8.00	15.00	5.00	5.40
RP008015060A	8.00	15.00	6.00	4.86
RP008015080A	8.00	15.00	8.00	5.47
RP008016040A*	8.00	16.00	4.00	4.86
RP008016057A	8.00	16.00	5.70	5.23
RP008016060A*	8.00	16.00	6.00	5.83
RP008016080A*	8.00	16.00	8.00	5.83
RP008018080A	8.00	18.00	8.00	5.83
RP008018100A*	8.00	18.00	10.00	12.51
RP008019080A*	8.00	19.00	8.00	6.26
RP008020080A*	8.00	20.00	8.00	7.34
RP008022080A*	8.00	22.00	8.00	7.75
RP008022100A*	8.00	22.00	10.00	8.10
RP009016040A*	9.00	16.00	4.00	5.83
RP009016060A*	9.00	16.00	6.00	4.86
RP009016070A*	9.00	16.00	7.00	6.48
RP009017055A*	9.00	17.00	5.50	6.05
RP009017060A*	9.00	17.00	6.00	6.05
RP009019060A	9.00	19.00	6.00	9.29
RP009019080A*	9.00	19.00	8.00	5.90
RP010014040A	10.00	14.00	4.00	6.02
RP010015030A*	10.00	15.00	3.00	4.86
RP010015040A*	10.00	15.00	4.00	6.05
RP010016040A*	10.00	16.00	4.00	7.99
RP010016050A*	10.00	16.00	5.00	6.05
RP010016057A*	10.00	16.00	5.70	5.35
RP010016060A	10.00	16.00	6.00	17.84
RP010016080A*	10.00	16.00	8.00	4.86
RP010018040A*	10.00	18.00	4.00	5.40
RP010018050A*	10.00	18.00	5.00	5.20
RP010018055A*	10.00	18.00	5.50	6.07
RP010018060A	10.00	18.00	6.00	6.07
RP010018080A	10.00	18.00	8.00	9.80
RP010020050A*	10.00	20.00	5.00	4.86

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP010020060A*	10.00	20.00	6.00	5.21
RP010020070A*	10.00	20.00	7.00	6.69
RP010020080A	10.00	20.00	8.00	6.73
RP010022060A	10.00	22.00	6.00	11.18
RP010022080A	10.00	22.00	8.00	10.84
RP010022090A*	10.00	22.00	9.00	6.69
RP010025100A*	10.00	25.00	10.00	7.13
RP010026080A*	10.00	26.00	8.00	7.13
RP010026095A*	10.00	26.00	9.50	7.13
RP010028100A*	10.00	28.00	10.00	7.34
RP011017040A*	11.00	17.00	4.00	4.86
RP011017045A*	11.00	17.00	4.50	6.54
RP011019047A*	11.11	19.50	4.76	4.86
RP011019050A*	11.20	19.20	5.00	6.92
RP011020060A*	11.00	20.50	6.00	7.22
RP011021080A*	11.20	21.20	8.00	8.99
RP012016027A/N	12.00	16.00	2.70	8.64
RP012017030A*	12.00	17.00	3.00	6.05
RP012018040A	12.00	18.00	4.00	6.05
RP012018048A*	12.00	18.00	4.80	6.92
RP012018050A	12.00	18.00	5.00	9.29
RP012018060A	12.00	18.00	6.00	6.92
RP012018080A*	12.00	18.00	8.00	4.86
RP012019050A*	12.00	19.00	5.00	4.86
RP012020040A*	12.00	20.00	4.00	4.86
RP012020050A*	12.00	20.00	5.00	4.86
RP012020044A	12.00	20.00	4.40	13.64
RP012020055A*	12.00	20.00	5.50	6.26
RP012020060A*	12.00	20.00	6.00	4.86
RP012020070A*	12.00	20.00	7.00	7.57
RP012020080A*	12.00	20.00	8.00	6.92
RP012022050A*	12.00	22.00	5.00	6.73
RP012022060A*	12.00	22.00	6.00	7.13
RP012022070A	12.00	22.00	7.00	8.40
RP012022080A	12.00	22.00	8.00	8.40
RP012024060A*	12.00	24.00	6.00	7.13
RP012024080A	12.00	24.00	8.00	7.91
RP012024100A*	12.00	24.00	10.00	7.34
RP012025080A*	12.00	25.00	8.00	11.87
RP012025100A*	12.00	25.00	10.00	11.87
RP012026100A*	12.00	26.00	10.00	10.80
RP012028100A*	12.00	28.00	10.00	7.77
RP012032100A*	12.00	32.00	10.00	15.12
RP013021050A*	13.00	21.00	5.00	4.86
RP013025080A*	13.00	25.00	8.00	7.56
RP014020040A*	14.00	20.00	4.00	6.69

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

A series - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP014020040A/N*	14.00	20.00	4.00	7.43
RP014020048A	14.00	20.00	4.80	6.34
RP014020050A*	14.00	20.00	5.00	6.91
RP014020060A	14.00	20.00	6.00	7.13
RP014020080A*	14.00	20.00	8.00	4.82
RP014021050A*	14.00	21.00	5.00	4.82
RP014022040A*	14.00	22.00	4.00	7.13
RP014022045A*	14.00	22.00	4.40	9.91
RP014022050A	14.00	22.00	5.00	7.61
RP014022060A*	14.00	22.00	6.00	7.35
RP014022080A*	14.00	22.00	8.00	7.57
RP014022110A*	14.00	22.00	11.00	7.91
RP014022120A*	14.00	22.00	12.00	7.99
RP014024050A*	14.00	24.00	5.00	7.34
RP014024060A*	14.00	24.00	6.00	7.56
RP014024080A	14.00	24.00	8.00	6.92
RP014025080A*	14.00	25.00	8.00	7.74
RP014026050A*	14.00	26.00	5.00	6.32
RP014028070A*	14.00	28.00	7.00	9.07
RP014028100A*	14.00	28.00	10.00	8.81
RP014030050A*	14.00	30.00	5.00	7.74
RP014032080A*	14.00	32.00	8.00	12.09
RP015020030A*	15.00	20.00	3.00	6.26
RP015021035A*	15.00	21.00	3.50	6.26
RP015021040A*	15.00	21.00	4.00	4.86
RP015022055A*	15.00	22.00	5.50	7.56
RP015022060A	15.00	22.00	6.00	4.86
RP015022080A*	15.00	22.00	8.00	8.21
RP015023050A*	15.00	23.00	5.00	4.86
RP015025050A*	15.00	25.00	5.00	10.92
RP015025060A*	15.00	25.00	6.00	6.32
RP015025070A*	15.00	25.00	7.00	7.38
RP015025073A*	15.00	25.00	7.30	15.69
RP015025080A	15.00	25.00	8.00	8.18
RP015025100A*	15.00	25.00	10.00	7.99
RP015027060A	15.00	27.00	6.00	9.49
RP015027070A*	15.00	27.00	7.00	7.74
RP015028080A*	15.00	28.00	8.00	7.56
RP015028100A*	15.00	28.00	10.00	12.38
RP015030060A*	15.00	30.00	6.00	7.99
RP015030080A*	15.00	30.00	8.00	7.99
RP015030100A*	15.00	30.00	10.00	7.99
RP016022030A*	16.00	22.00	3.00	7.56
RP016022040A	16.00	22.00	4.00	6.92
RP016022045A*	16.00	22.00	4.50	6.69
RP016022050A	16.00	22.00	5.00	6.92

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP016022060A*	16.00	22.00	6.00	4.86
RP016022070A*	16.00	22.00	7.00	4.86
RP016022080A*	16.00	22.00	8.00	5.28
RP016022100A*	16.00	22.00	10.00	8.42
RP016024040A*	16.00	24.00	4.00	4.86
RP016024044A*	16.00	24.00	4.40	14.55
RP016024050A	16.00	24.00	5.00	7.35
RP016024060A*	16.00	24.00	6.00	7.56
RP016024080A*	16.00	24.00	8.00	6.74
RP016024090A*	16.00	24.00	9.00	7.59
RP016025050A*	16.00	25.00	5.00	7.56
RP016026050A	16.00	26.00	5.00	7.99
RP016026060A*	16.00	26.00	6.00	7.56
RP016026070A*	16.00	26.00	7.00	7.74
RP016026080A	16.00	26.00	8.00	9.68
RP016026100A*	16.00	26.00	10.00	10.28
RP016028060A*	16.00	28.00	6.00	12.38
RP016029060A*	16.00	29.00	6.00	7.77
RP016030050A*	16.00	30.00	5.00	7.74
RP016030060A	16.00	30.00	6.00	7.98
RP016032080A*	16.00	32.00	8.00	13.42
RP016036050A*	16.00	36.00	5.00	8.35
RP017025040A*	17.00	25.00	4.00	7.99
RP017025050A*	17.00	25.00	5.00	4.86
RP017025055A*	17.00	25.00	5.50	5.34
RP017025060A*	17.00	25.00	6.00	5.67
RP017025100A*	17.00	25.00	10.00	8.40
RP017030060A*	17.00	30.00	6.00	7.74
RP017030070A*	17.00	30.00	7.00	8.10
RP017032100A*	17.00	32.00	10.00	7.99
RP018022080A*	18.00	22.00	8.00	4.86
RP018024050A*	18.00	24.00	5.00	4.86
RP018024080A	18.00	24.00	8.00	7.99
RP018025050A	18.00	25.00	5.00	9.23
RP018026040A*	18.00	26.00	4.00	7.99
RP018026044A*	18.00	26.00	4.40	16.73
RP018026050A	18.00	26.00	5.00	10.30
RP018026060A	18.00	26.00	6.00	7.99
RP018026065A	18.00	26.00	6.50	8.18
RP018026070A*	18.00	26.00	7.00	6.49
RP018026074A*	18.00	26.00	7.40	8.43
RP018026080A*	18.00	26.00	8.00	13.57
RP018026085A	18.00	26.00	8.50	9.49
RP018028050A*	18.00	28.00	5.00	6.06
RP018028060A*	18.00	28.00	6.00	7.99
RP018028073A*	18.00	28.00	7.30	16.73

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP018028078A*	18.00	28.00	7.78	12.17
RP018028080A	18.00	28.00	8.00	8.18
RP018030060A*	18.00	30.00	6.00	7.99
RP018030075A*	18.00	30.00	7.50	8.21
RP018030080A*	18.00	30.00	8.00	9.02
RP018030085A*	18.00	30.00	8.50	8.21
RP018030100A*	18.00	30.00	10.00	8.64
RP018031080A*	18.00	31.00	8.00	8.35
RP018032070A*	18.00	32.00	7.00	8.64
RP018034080A*	18.00	34.00	8.00	18.16
RP018038060A*	18.00	38.00	6.00	9.37
RP019025050A*	19.00	25.00	5.00	4.86
RP019025060A	19.00	25.00	6.00	11.87
RP019025070A	19.00	25.00	7.00	9.41
RP019027040A*	19.00	27.00	4.00	7.56
RP019034080A*	19.00	34.00	8.00	8.87
RP020025030A*	20.00	25.00	3.00	9.85
RP020025035A*	20.00	25.00	3.50	7.56
RP020025050A*	20.00	25.00	5.00	7.77
RP020026050A*	20.00	26.00	5.00	4.86
RP020026060A	20.00	26.00	6.00	4.86
RP020027050A*	20.00	27.00	5.00	7.56
RP020027060A*	20.00	27.00	6.00	7.77
RP020028040A*	20.00	28.00	4.00	8.61
RP020028044A	20.00	28.00	4.40	16.73
RP020028045A*	20.00	28.00	4.50	7.55
RP020028050A	20.00	28.00	5.00	10.62
RP020028060A	20.00	28.00	6.00	9.41
RP020028070A*	20.00	28.00	7.00	10.85
RP020028080A	20.00	28.00	8.00	8.82
RP020030040A*	20.00	30.00	4.00	7.99
RP020030050A*	20.00	30.00	5.00	7.77
RP020030060A*	20.00	30.00	6.00	7.99
RP020030070A*	20.00	30.00	7.00	10.35
RP020030080A	20.00	30.00	8.00	9.23
RP020030100A	20.00	30.00	10.00	9.23
RP020031080A*	20.00	31.00	8.00	8.10
RP020032050A*	20.00	32.00	5.00	8.64
RP020032060A*	20.00	32.00	6.00	8.42
RP020032075A	20.00	32.00	7.50	8.61
RP020032080A	20.00	32.00	8.00	8.35
RP020032110A*	20.00	32.00	11.00	9.50
RP020033080A*	20.00	33.00	8.00	8.35
RP020033100A	20.00	33.00	10.00	9.61
RP020035070A*	20.00	35.00	7.00	8.65
RP020035080A*	20.00	35.00	8.00	9.21

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP020035100A*	20.00	35.00	10.00	9.50
RP020035120A	20.00	35.00	12.00	9.50
RP020036080A*	20.00	36.00	8.00	9.50
RP020036100A*	20.00	36.00	10.00	9.72
RP020037120A*	20.00	37.00	12.00	14.42
RP020038120A*	20.00	38.00	12.00	14.88
RP020039100A*	20.00	39.00	10.00	19.58
RP020040080A*	20.00	40.00	8.00	12.40
RP020040100A*	20.00	40.00	10.00	11.36
RP020040120A	20.00	40.00	12.00	17.31
RP022028040A*	22.00	28.00	4.00	4.86
RP022028045A	22.00	28.00	4.50	3.89
RP022028080A	22.00	28.00	8.00	8.18
RP022029050A*	22.00	29.00	5.00	5.16
RP022030040A	22.00	30.00	4.00	13.64
RP022030050A *	22.40	30.00	5.00	#N/A
RP022030050A-1	22.40	30.00	5.00	14.51
RP022030060A	22.00	30.00	6.00	9.23
RP022030070A	22.00	30.00	7.00	9.98
RP022030100A	22.00	30.00	10.00	9.74
RP022031050A*	22.50	31.50	5.00	6.40
RP022032050A*	22.00	32.00	5.00	8.21
RP022032060A	22.00	32.00	6.00	8.64
RP022032070A	22.00	32.00	7.00	8.64
RP022032080A	22.00	32.00	8.00	9.68
RP022032080A	22.40	32.40	8.00	9.68
RP022032100A	22.00	32.00	10.00	9.50
RP022034060A*	22.00	34.00	6.00	9.07
RP022034070A*	22.00	34.00	7.00	8.10
RP022034100A*	22.00	34.00	10.00	9.93
RP022035060A*	22.00	35.00	6.00	8.10
RP022035070A*	22.00	35.00	7.00	8.35
RP022035080A*	22.00	35.00	8.00	8.81
RP022035100A	22.00	35.00	10.00	9.02
RP022035100A/T601	22.00	35.00	10.00	18.45
RP022036090A*	22.00	36.00	9.00	10.19
RP022038080A*	22.00	38.00	8.00	10.71
RP022038100A*	22.00	38.00	10.00	10.15
RP022040100A	22.00	40.00	10.00	10.37
RP022040120A	22.00	40.00	12.00	15.22
RP022042100A*	22.00	42.00	10.00	10.37
RP022046120A*	22.00	46.00	12.00	11.45
RP023031050A*	23.50	31.50	5.00	14.66
RP023033053A*	22.70	33.00	5.30	7.74
RP023035060A*	23.00	35.00	6.00	8.10
RP024030060A	24.00	30.00	6.00	5.62

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

A series - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP024032040A*	24.00	32.00	4.00	7.99
RP024032050A*	24.00	32.00	5.00	5.90
RP024032060A*	24.00	32.00	6.00	7.08
RP024032070A	24.00	32.00	7.00	7.99
RP024034050A*	24.00	34.00	5.00	9.07
RP024034060A*	24.00	34.00	6.00	7.74
RP024034070A*	24.00	34.00	7.00	8.10
RP024036060A	24.00	36.00	6.00	8.10
RP024036080A*	24.00	36.00	8.00	8.63
RP024040080A	24.00	40.00	8.00	10.11
RP025030060A*	25.00	30.00	6.00	4.86
RP025031060A	25.00	31.00	6.00	5.67
RP025032040A*	25.00	32.00	4.00	8.21
RP025032050A*	25.00	32.00	5.00	5.67
RP025032070A	25.00	32.00	7.00	8.64
RP025032080A*	25.00	32.00	8.00	7.74
RP025033040A*	25.00	33.00	4.00	8.21
RP025033044A	25.00	33.00	4.40	16.38
RP025033050A	25.00	33.00	5.00	14.66
RP025033055A*	25.00	33.00	5.50	6.72
RP025033057A	25.00	33.00	5.70	7.35
RP025033060A	25.00	33.00	6.00	7.33
RP025033070A*	25.00	33.00	7.00	9.29
RP025033080A	25.00	33.00	8.00	9.68
RP025033100A*	25.00	33.00	10.00	8.10
RP025035050A	25.00	35.00	5.00	9.02
RP025035060A*	25.00	35.00	6.00	14.66
RP025035070A*	25.00	35.00	7.00	9.50
RP025035080A	25.00	35.00	8.00	7.35
RP025035100A	25.00	35.00	10.00	9.02
RP025036060A	25.00	36.00	6.00	8.10
RP025037070A*	25.00	37.00	7.00	9.50
RP025038070A*	25.00	38.00	7.00	9.50
RP025038080A	25.00	38.00	8.00	15.21
RP025038080A/T601*	25.00	38.00	8.00	19.69
RP025038090A*	25.00	38.00	9.00	9.93
RP025038100A*	25.00	38.00	10.00	9.23
RP025040060A*	25.00	40.00	6.00	8.76
RP025040080A	25.00	40.00	8.00	10.88
RP025040100A	25.00	40.00	10.00	18.48
RP025042080A*	25.00	42.00	8.00	11.84
RP025043080A*	25.00	43.00	8.00	12.65
RP025045080A*	25.00	45.00	8.00	13.88
RP025045100A*	25.00	45.00	10.00	15.45
RP025050100A*	25.00	50.00	10.00	17.12
RP025050120A*	25.00	50.00	12.00	7.26

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP026032047A	26.00	32.00	4.70	4.86
RP026035080A*	26.00	35.00	8.00	7.34
RP026036080A*	26.00	36.00	8.00	8.35
RP026036100A*	26.00	36.00	10.00	8.81
RP026038080A*	26.00	38.00	8.00	5.55
RP026042080A*	26.00	42.00	8.00	9.93
RP026047120A*	26.00	47.00	12.00	16.95
RP027035040A*	27.00	35.00	4.00	9.50
RP027035050A*	27.00	35.00	5.00	6.53
RP027035060A*	27.00	35.00	6.00	9.50
RP027036060A*	27.00	36.00	6.00	7.74
RP027038060A*	27.00	38.00	6.00	9.50
RP028035050A	28.00	35.00	5.00	9.23
RP028035050A-1	28.00	35.50	5.00	15.77
RP028035060A*	28.00	35.00	6.00	9.50
RP028036040A*	28.00	36.00	4.00	9.07
RP028036050A	28.00	36.00	5.00	10.51
RP028036060A	28.00	36.00	6.00	9.50
RP028036060A/N*	28.00	36.00	6.00	9.59
RP028036065A	28.00	36.00	6.50	7.99
RP028036070A*	28.00	36.00	7.00	7.74
RP028036080A*	28.00	36.00	8.00	8.10
RP028038050A*	28.00	38.00	5.00	9.50
RP028038056A	28.00	38.00	5.60	17.49
RP028038070A*	28.00	38.00	7.00	6.30
RP028038080A	28.00	38.00	8.00	9.23
RP028038100A*	28.00	38.00	10.00	5.75
RP028040060A*	28.00	40.00	6.00	9.72
RP028040080A	28.00	40.00	8.00	6.45
RP028040100A	28.00	40.00	10.00	10.11
RP028040100A/T601*	28.00	40.00	10.00	19.69
RP028043100A	28.00	43.00	10.00	4.53
RP028044080A*	28.00	44.00	8.00	6.03
RP028044080A/N*	28.00	44.00	8.00	9.64
RP028048100A*	28.00	48.00	10.00	11.45
RP028048120A*	28.00	48.00	12.00	12.31
RP030036080A	30.00	36.00	8.00	7.74
RP030037060A*	30.00	37.00	6.00	9.93
RP030037080A*	30.00	37.00	8.00	10.15
RP030038040A*	30.00	38.00	4.00	10.15
RP030038050A*	30.00	38.00	5.00	20.83
RP030038055A	30.00	38.00	5.50	7.22
RP030038060A	30.00	38.00	6.00	9.91
RP030038070A*	30.00	38.00	7.00	12.73
RP030038080A*	30.00	38.00	8.00	14.87
RP030038100A*	30.00	38.00	10.00	10.58

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP030040050A	30.00	40.00	5.00	11.36
RP030040055A*	30.00	40.00	5.50	8.21
RP030040056A	30.00	40.00	5.60	17.78
RP030040060A	30.00	40.00	6.00	18.09
RP030040065A*	30.00	40.00	6.50	6.45
RP030040070A	30.00	40.00	7.00	18.09
RP030040080A	30.00	40.00	8.00	12.83
RP0300401100A	30.00	40.00	10.00	17.84
RP030042060A*	30.00	42.00	6.00	8.35
RP030042080A	30.00	42.00	8.00	9.64
RP030042090A	30.00	42.00	9.00	14.06
RP0300421100A	30.00	42.00	10.00	14.59
RP0300451100A	30.00	45.00	10.00	11.56
RP0300501100A	30.00	50.00	10.00	12.82
RP030050120A*	30.00	50.00	12.00	13.39
RP030052100A*	30.00	52.00	10.00	16.95
RP031041060A	31.50	41.50	6.00	18.35
RP031047100A*	31.00	47.00	10.00	14.83
RP032040040A*	32.00	40.00	4.00	10.15
RP032040050A	32.00	40.00	5.00	6.71
RP032040055A*	32.00	40.00	5.50	10.51
RP032040057A*	32.00	40.00	5.70	4.53
RP032040060A	32.00	40.00	6.00	8.84
RP032040080A	32.00	40.00	8.00	10.51
RP0320401100A	32.00	40.00	10.00	6.90
RP032042056A	32.00	42.00	5.60	17.41
RP032042060A	32.00	42.00	6.00	10.15
RP032042080A	32.00	42.00	8.00	15.83
RP0320421100A	32.00	42.00	10.00	10.11
RP032044060A*	32.00	44.00	6.00	10.58
RP032045080A	32.00	45.00	8.00	11.66
RP032045100A*	32.00	45.00	10.00	11.96
RP032046100A*	32.00	46.00	10.00	18.65
RP032047100A*	32.00	47.00	10.00	14.08
RP032048100A*	32.00	48.00	10.00	12.31
RP032050120A*	32.00	50.00	12.00	13.39
RP032052100A*	32.00	52.00	10.00	13.39
RP033043060A*	33.00	43.00	6.00	11.66
RP034045080A*	34.00	45.00	8.00	9.70
RP034045090A	34.00	45.00	9.00	14.24
RP034050140A	34.00	50.00	14.00	16.62
RP035041050A	35.00	41.00	5.00	6.01
RP035042100A*	35.00	42.00	10.00	8.35
RP035043060A	35.00	43.00	6.00	6.05
RP035043080A*	35.00	43.00	8.00	19.74
RP035045050A*	35.00	45.00	5.00	8.29

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP035045060A	35.00	45.00	6.00	17.07
RP035045060A-1	35.50	45.00	6.00	17.07
RP035045070A	35.00	45.00	7.00	17.07
RP035045080A	35.00	45.00	8.00	11.56
RP0350451100A	35.00	45.00	10.00	16.81
RP035046100A*	35.00	46.00	10.00	11.84
RP035047060A*	35.00	47.00	6.00	12.09
RP035048080A*	35.00	48.00	8.00	12.31
RP0350481100A	35.00	48.00	10.00	13.25
RP035050080A	35.00	50.00	8.00	14.49
RP0350501100A	35.00	50.00	10.00	12.37
RP035052120A*	35.00	52.00	12.00	14.47
RP035055100A*	35.00	55.00	10.00	13.91
RP035055120A*	35.00	55.00	12.00	14.47
RP036044080A	36.00	44.00	8.00	8.35
RP036045100A*	36.00	45.00	10.00	8.12
RP036046050A*	36.00	46.00	5.00	12.53
RP036046056A	36.00	46.00	5.60	17.78
RP036046060A*	36.00	46.00	6.00	12.53
RP036046070A	36.00	46.00	7.00	10.11
RP0360461100A	36.00	46.00	10.00	8.12
RP036048060A*	36.00	48.00	6.00	12.53
RP036050080A*	36.00	50.00	8.00	12.96
RP036051100A*	36.00	51.00	10.00	12.96
RP037047100A*	37.00	47.00	10.00	11.28
RP038045050A	38.00	45.00	5.00	12.37
RP038045060A*	38.00	45.00	6.00	11.23
RP038046065A	38.00	46.00	6.50	15.43
RP038048060A	38.00	48.00	6.00	19.83
RP038048100A*	38.00	48.00	10.00	11.55
RP038050060A*	38.00	50.00	6.00	12.31
RP038050080A*	38.00	50.00	8.00	11.34
RP038050090A	38.00	50.00	9.00	8.63
RP0380501100A	38.00	50.00	10.00	6.81
RP038052100A*	38.00	52.00	10.00	14.97
RP038055097A*	38.00	55.00	9.70	18.91
RP0380551100A	38.00	55.00	10.00	13.82
RP0380581100A	38.00	58.00	10.00	10.50
RP038060100A*	38.00	60.00	10.00	18.93
RP038062120A*	38.00	62.00	12.00	25.29
RP039058100A*	39.00	58.00	10.00	14.69
RP040048080A	40.00	48.00	8.00	5.75
RP040048110A*	40.00	48.00	11.00	12.96
RP040050050A	40.00	50.00	5.00	8.61
RP040050056A	40.00	50.00	5.60	18.18
RP040050060A	40.00	50.00	6.00	19.83

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

A series - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP040050060A/T601	40.00	50.00	6.00	18.78
RP040050065A	40.00	50.00	6.50	11.36
RP040050070A	40.00	50.00	7.00	17.08
RP040050080A	40.00	50.00	8.00	11.36
RP040050090A	40.00	50.00	9.00	12.96
RP040050100A	40.00	50.00	10.00	11.56
RP040052060A*	40.00	52.00	6.00	7.35
RP040052080A	40.00	52.00	8.00	11.84
RP040052120A*	40.00	52.00	12.00	13.39
RP040055070A*	40.00	55.00	7.00	12.96
RP040055080A*	40.00	55.00	8.00	14.13
RP040055099A*	40.00	55.00	9.90	18.47
RP040055100A	40.00	55.00	10.00	21.04
RP040056080A*	40.00	56.00	8.00	6.81
RP040056100A*	40.00	56.00	10.00	6.03
RP040060100A	40.00	60.00	10.00	10.11
RP040060120A	40.00	60.00	12.00	21.88
RP040060130A	40.00	60.00	13.00	6.81
RP040060180A*	40.00	60.00	18.00	14.72
RP040065100A*	40.00	65.00	10.00	14.47
RP040065120A*	40.00	65.00	12.00	15.74
RP040070120A*	40.00	70.00	12.00	21.81
RP041057100A*	41.00	57.00	10.00	16.84
RP041061100A*	41.00	61.00	10.00	17.91
RP042050050A*	42.00	50.00	5.00	12.96
RP042050060A	42.00	50.00	6.00	12.96
RP042050080A	42.00	50.00	8.00	11.36
RP042051110A*	42.00	51.00	11.00	13.82
RP042052060A*	42.00	52.00	6.00	8.74
RP042052080A*	42.00	52.00	8.00	10.49
RP042052090A	42.00	52.00	9.00	11.99
RP042052100A	42.00	52.00	10.00	13.82
RP042055080A*	42.00	55.00	8.00	12.65
RP042057080A*	42.00	57.00	8.00	14.04
RP042062120A*	42.00	62.00	12.00	15.48
RP043063100A*	43.00	63.00	10.00	8.35
RP044057090A*	44.00	57.00	9.00	13.82
RP045052080A*	45.00	52.00	8.00	8.35
RP045053080A	45.00	53.00	8.00	20.19
RP045055056A*	45.00	55.00	5.60	18.91
RP045055060A	45.00	55.00	6.00	25.53
RP045055065A	45.00	55.00	6.50	12.82
RP045055080A*	45.00	55.00	8.00	13.39
RP045055100A	45.00	55.00	10.00	12.82
RP045055120A*	45.00	55.00	12.00	14.58
RP045056070A	45.00	56.00	7.00	26.92

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP045057060A*	45.00	57.00	6.00	13.82
RP045058100A*	45.00	58.00	10.00	11.49
RP045058120A*	45.00	58.00	12.00	9.21
RP045060100A	45.00	60.00	10.00	13.91
RP045061100A*	45.00	61.00	10.00	16.86
RP045063100A	45.00	63.00	10.00	11.96
RP045063120A*	45.00	63.00	12.00	19.40
RP045065100A	45.00	65.00	10.00	16.15
RP045065120A	45.00	65.00	12.00	16.15
RP045070120A	45.00	70.00	12.00	8.18
RP046058060A*	46.00	58.00	6.00	14.25
RP046070120A*	46.00	70.00	12.00	25.70
RP047063080A*	47.00	63.00	8.00	14.43
RP047065120A*	47.00	65.00	12.00	15.33
RP048058100A	48.00	58.00	10.00	13.44
RP048060060A*	48.00	60.00	6.00	13.82
RP048063100A	48.00	63.00	10.00	33.18
RP048063120A*	48.00	63.00	12.00	15.33
RP048068100A*	48.00	68.00	10.00	16.20
RP048068120A*	48.00	68.00	12.00	15.33
RP050057100A*	50.00	57.00	10.00	14.25
RP050058080A	50.00	58.00	8.00	18.18
RP050058120A*	50.00	58.00	12.00	12.85
RP050060050A*	50.00	60.00	5.00	14.40
RP050060056A*	50.00	60.00	5.60	20.33
RP050060060A	50.00	60.00	6.00	18.86
RP050060070A	50.00	60.00	7.00	14.04
RP050060072A	50.00	60.00	7.20	13.90
RP050060080A*	50.00	60.00	8.00	14.25
RP050060100A	50.00	60.00	10.00	12.61
RP050060110A*	50.00	60.00	11.00	25.52
RP050060120A*	50.00	60.00	12.00	14.47
RP050062060A*	50.00	62.00	6.00	14.25
RP050062090A	50.00	62.00	9.00	12.61
RP050062100A*	50.00	62.00	10.00	18.39
RP050063060A	50.00	63.00	6.00	11.96
RP050063080A*	50.00	63.00	8.00	14.25
RP050063100A	50.00	63.00	10.00	9.66
RP050063120A*	50.00	63.00	12.00	14.25
RP050065075A*	50.00	65.00	7.50	10.43
RP050065080A*	50.00	65.00	8.00	15.68
RP050065100A	50.00	65.00	10.00	30.02
RP050065120A*	50.00	65.00	12.00	18.18
RP050068120A*	50.00	68.00	12.00	14.90
RP050070080A*	50.00	70.00	8.00	15.76
RP050070100A	50.00	70.00	10.00	17.03

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP050070120A	50.00	70.00	12.00	17.03
RP050070180A*	50.00	70.00	18.00	37.93
RP052062060A*	52.00	62.00	6.00	14.25
RP052062120A	52.00	62.00	12.00	13.65
RP053063060A	53.00	63.00	6.00	28.88
RP053063065A	53.00	63.00	6.50	14.33
RP053063072A*	53.00	63.00	7.25	44.54
RP053063120A*	53.00	63.00	12.00	14.90
RP055065050A*	55.00	65.00	5.00	6.35
RP055065060A	55.00	65.00	6.00	28.88
RP055065100A	55.00	65.00	10.00	12.61
RP055065110A*	55.00	65.00	11.00	12.99
RP055065120A	55.00	65.00	12.00	12.61
RP055070075A*	55.00	70.00	7.50	18.57
RP055070080A	55.00	70.00	8.00	16.70
RP055070100A*	55.00	70.00	10.00	8.33
RP055070120A	55.00	70.00	12.00	17.03
RP055075100A*	55.00	75.00	10.00	10.73
RP055075120A	55.00	75.00	12.00	16.58
RP055080120A	55.00	80.00	12.00	26.83
RP055080150A*	55.00	80.00	15.00	20.52
RP056066050A*	56.00	66.00	5.00	14.25
RP056066060A	56.00	66.00	6.00	29.61
RP056066067A	56.00	66.00	6.70	20.40
RP056066073A	56.00	66.00	7.30	21.73
RP056066100A*	56.00	66.00	10.00	20.16
RP056070120A*	56.00	70.00	12.00	15.76
RP056071084A	56.00	71.00	8.40	26.03
RP056071100A*	56.00	71.00	10.00	14.47
RP056076120A*	56.00	76.00	12.00	16.20
RP056080150A*	56.00	80.00	15.00	20.52
RP058068060A*	58.00	68.00	6.00	20.04
RP058070060A*	58.00	70.00	6.00	14.47
RP058078150A	58.00	78.00	15.00	17.28
RP060068080A*	60.00	68.00	8.00	12.69
RP060070050A*	60.00	70.00	5.00	6.66
RP060070060A	60.00	70.00	6.00	20.04
RP060070080A	60.00	70.00	8.00	16.58
RP060070100A	60.00	70.00	10.00	16.58
RP060070120A	60.00	70.00	12.00	16.58
RP060071070A	60.00	71.00	7.00	20.46
RP060075100A	60.00	75.00	10.00	14.72
RP060075120A	60.00	75.00	12.00	14.72
RP060080100A	60.00	80.00	10.00	16.81
RP060080120A	60.00	80.00	12.00	16.81
RP060080180A*	60.00	80.00	18.00	18.91

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP060085125A*	60.00	85.00	12.50	39.79
RP060090150A*	60.00	90.00	15.00	56.48
RP061071060A	61.00	71.00	6.00	15.12
RP061080120A*	61.00	80.00	12.00	17.71
RP063072060A*	63.00	72.00	6.00	15.33
RP063073060A	63.00	73.00	6.00	20.04
RP063073075A*	63.00	73.00	7.50	10.43
RP063073080A	63.00	73.00	8.00	23.53
RP063073118A	63.00	73.00	11.80	23.53
RP063073120A*	63.00	73.00	12.00	16.84
RP063075100A	63.00	75.00	10.00	15.36
RP063078084A*	63.00	78.00	8.40	26.75
RP063078100A	63.00	78.00	10.00	17.24
RP063080160A*	63.00	80.00	16.00	34.15
RP063083120A	63.00	83.00	12.00	17.28
RP065073120A*	65.00	73.00	12.00	17.47
RP065075060A	65.00	75.00	6.00	31.92
RP065075100A*	65.00	75.00	10.00	16.41
RP065075120A	65.00	75.00	12.00	17.06
RP065080075A*	65.00	80.00	7.50	11.51
RP065080084A	65.00	80.00	8.40	28.12
RP065080100A	65.00	80.00	10.00	18.14
RP065080110A	65.00	80.00	11.00	16.81
RP065080120A	65.00	80.00	12.00	16.81
RP065085100A	65.00	85.00	10.00	16.81
RP065085120A	65.00	85.00	12.00	16.81
RP065090080A*	65.00	90.00	8.00	17.71
RP065090130A*	65.00	90.00	13.00	20.52
RP065090150A*	65.00	90.00	15.00	21.16
RP066076080A*	66.00	76.00	8.00	17.20
RP066077060A*	66.00	77.00	6.00	15.33
RP066080100A*	66.00	80.00	10.00	15.98
RP066080130A*	66.00	80.00	13.00	15.98
RP067077060A*	67.00	77.00	6.00	31.92
RP067077100A*	67.00	77.00	10.00	20.18
RP067077120A*	67.00	77.00	12.00	17.54
RP070080050A*	70.00	80.00	5.00	15.36
RP070080060A	70.00	80.00	6.00	33.39
RP070080080A	70.00	80.00	8.00	14.72
RP070080100A	70.00	80.00	10.00	15.36
RP070080118A	70.00	80.00	11.80	28.12
RP070080120A	70.00	80.00	12.00	15.36
RP070085080A*	70.00	85.00	8.00	17.10
RP070085084A	70.00	85.00	8.40	37.02
RP070085100A*	70.00	85.00	10.00	20.42
RP070085120A	70.00	85.00	12.00	16.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

A series - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP070090100A*	70.00	90.00	10.00	26.06
RP070090120A	70.00	90.00	12.00	16.81
RP070090135A	70.00	90.00	13.50	37.93
RP070090180A*	70.00	90.00	18.00	16.92
RP070092120A*	70.00	92.00	12.00	28.12
RP070095120A*	70.00	95.00	12.00	16.37
RP071080060A	71.00	80.00	6.00	33.39
RP072090100A*	72.00	90.00	10.00	17.71
RP075085060A	75.00	85.00	6.00	36.75
RP075085070A*	75.00	85.00	7.00	28.19
RP075085100A	75.00	85.00	10.00	11.20
RP075085118A	75.00	85.00	11.80	34.16
RP075085120A	75.00	85.00	12.00	17.65
RP075090075A*	75.00	90.00	7.50	18.48
RP075090100A	75.00	90.00	10.00	11.20
RP075090120A	75.00	90.00	12.00	18.10
RP075095100A*	75.00	95.00	10.00	11.96
RP075095120A	75.00	95.00	12.00	17.45
RP075100150A*	75.00	100.00	15.00	54.91
RP078093105A	78.00	93.00	10.50	21.36
RP080090050A	80.00	90.00	5.00	11.81
RP080090060A	80.00	90.00	6.00	42.96
RP080090060A/N*	80.00	90.00	6.00	#N/A
RP080090080A	80.00	90.00	8.00	11.96
RP080090100A	80.00	90.00	10.00	16.81
RP080090118A	80.00	90.00	11.80	29.89
RP080090120A	80.00	90.00	12.00	46.15
RP080095080A*	80.00	95.00	8.00	18.14
RP080095084A	80.00	95.00	8.40	38.90
RP080095090A*	80.00	95.00	9.00	9.53
RP080095100A*	80.00	95.00	10.00	11.67
RP080095120A	80.00	95.00	12.00	16.58
RP080100100A	80.00	100.00	10.00	17.24
RP080100120A	80.00	100.00	12.00	17.24
RP080100130A*	80.00	100.00	13.00	41.09
RP080100135A*	80.00	100.00	13.50	13.74
RP080100180A*	80.00	100.00	18.00	16.11
RP080105150A*	80.00	105.00	15.00	23.97
RP082092100A*	82.00	92.00	10.00	27.87
RP082102100A*	82.00	102.00	10.00	20.30
RP083103140A*	83.00	103.00	14.00	22.46
RP085095085A	85.00	95.00	8.50	12.22
RP085095090A*	85.00	95.00	9.00	18.57
RP085095120A	85.00	95.00	12.00	17.45
RP085100084A*	85.00	100.00	8.40	30.62
RP085100089A	85.00	100.00	8.90	37.04

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP085100090A*	85.00	100.00	9.00	51.94
RP085100100A*	85.00	100.00	10.00	24.37
RP085100110A	85.00	100.00	11.00	12.39
RP085100120A	85.00	100.00	12.00	21.26
RP085100250A*	85.00	100.00	25.00	35.85
RP085102090A*	85.00	102.00	9.00	18.14
RP085105120A	85.00	105.00	12.00	18.48
RP085110120A	85.00	110.00	12.00	48.96
RP085115150A*	85.00	115.00	15.00	24.13
RP090100050A*	90.00	100.00	5.00	12.27
RP090100068A*	90.00	100.00	6.80	18.79
RP090100070A	90.00	100.00	7.00	16.58
RP090100080A	90.00	100.00	8.00	16.58
RP090100100A*	90.00	100.00	10.00	17.12
RP090100118A*	90.00	100.00	11.80	35.58
RP090100120A*	90.00	100.00	12.00	49.93
RP090102090A	90.00	102.00	9.00	23.92
RP090105084A	90.00	105.00	8.40	35.58
RP090105089A	90.00	105.00	8.90	39.54
RP090105090A*	90.00	105.00	9.00	56.46
RP090105120A	90.00	105.00	12.00	23.12
RP090110100A*	90.00	110.00	10.00	11.34
RP090110120A	90.00	110.00	12.00	19.31
RP090110150A	90.00	110.00	15.00	21.60
RP090110180A*	90.00	110.00	18.00	19.51
RP090115120A*	90.00	115.00	12.00	23.54
RP090115150A*	90.00	115.00	15.00	16.71
RP090120150A*	90.00	120.00	15.00	25.91
RP095105070A*	95.00	105.00	7.00	15.91
RP095105100A*	95.00	105.00	10.00	17.56
RP095105120A*	95.00	105.00	12.00	21.07
RP095110089A*	95.00	110.00	8.90	47.23
RP095110090A	95.00	110.00	9.00	53.73
RP095110100A*	95.00	110.00	10.00	13.27
RP095110120A	95.00	110.00	12.00	12.80
RP095110150A*	95.00	110.00	15.00	34.42
RP095112110A*	95.00	112.00	11.00	22.95
RP095115120A	95.00	115.00	12.00	21.86
RP095115150A*	95.00	115.00	15.00	23.11
RP095115180A*	95.00	115.00	18.00	63.26
RP095120120A*	95.00	120.00	12.00	25.91
RP096105110A*	96.00	105.00	11.00	22.68
RP098112090A*	98.00	112.00	9.00	54.71
RP100110050A*	100.00	110.00	5.00	11.34
RP100110060A*	100.00	110.00	6.00	15.04
RP100110080A*	100.00	110.00	8.00	13.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP100110110A*	100.00	110.00	11.00	20.28
RP100110150A*	100.00	110.00	15.00	27.66
RP100112090A*	100.00	112.00	9.00	20.05
RP100115089A	100.00	115.00	8.90	47.23
RP100115090A*	100.00	115.00	9.00	54.71
RP100115100A*	100.00	115.00	10.00	28.32
RP100115120A	100.00	115.00	12.00	19.98
RP100115150A*	100.00	115.00	15.00	42.48
RP100120100A*	100.00	120.00	10.00	38.64
RP100120120A	100.00	120.00	12.00	56.62
RP100120135A*	100.00	120.00	13.50	15.62
RP100120150A*	100.00	120.00	15.00	15.04
RP100125120A*	100.00	125.00	12.00	56.48
RP100125150A*	100.00	125.00	15.00	23.76
RP100130120A	100.00	130.00	12.00	32.84
RP100130150A*	100.00	130.00	15.00	30.23
RP100130180A*	100.00	130.00	18.00	30.23
RP105115090A*	105.00	115.00	9.00	17.39
RP105120080A	105.00	120.00	8.00	18.10
RP105120090A	105.00	120.00	9.00	26.67
RP105120120A	105.00	120.00	12.00	35.56
RP105120150A	105.00	120.00	15.00	22.28
RP105125100A*	105.00	125.00	10.00	40.39
RP105125114A*	105.00	125.00	11.40	40.01
RP105125120A	105.00	125.00	12.00	17.09
RP105125130A*	105.00	125.00	13.00	50.04
RP105125150A*	105.00	125.00	15.00	22.07
RP105125160A*	105.00	125.00	16.00	20.45
RP105130120A*	105.00	130.00	12.00	19.95
RP105130150A*	105.00	130.00	15.00	28.94
RP105130180A*	105.00	130.00	18.00	30.23
RP106120085A	106.00	120.00	8.50	16.34
RP107130150A*	107.00	130.00	15.00	30.23
RP108127100A*	108.00	127.00	10.00	27.49
RP110120080A*	110.00	120.00	8.00	22.68
RP110120120A*	110.00	120.00	12.00	24.24
RP110125120A	110.00	125.00	12.00	23.12
RP110125150A	110.00	125.00	15.00	58.79
RP110130090A*	110.00	130.00	9.00	37.93
RP110130100A*	110.00	130.00	10.00	13.59
RP110130110A*	110.00	130.00	11.00	70.68
RP110130120A	110.00	130.00	12.00	48.20
RP110130150A*	110.00	130.00	15.00	52.58
RP110130180A*	110.00	130.00	18.00	30.46
RP110135150A*	110.00	135.00	15.00	76.88
RP110135180A*	110.00	135.00	18.00	30.23

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP110140150A*	110.00	140.00	15.00	94.14
RP110140180A*	110.00	140.00	18.00	32.61
RP112125089A*	112.00	125.00	8.90	33.32
RP112125090A*	112.00	125.00	9.00	56.62
RP113125095A*	113.00	125.00	9.50	28.88
RP115125080A*	115.00	125.00	8.00	24.40
RP115125120A*	115.00	125.00	12.00	15.96
RP115125150A*	115.00	125.00	15.00	25.91
RP115126150A*	115.00	126.00	15.00	22.66
RP115130090A*	115.00	130.00	9.00	29.04
RP115130100A	115.00	130.00	10.00	26.56
RP115130120A*	115.00	130.00	12.00	38.72
RP115130150A*	115.00	130.00	15.00	46.13
RP115135150A	115.00	135.00	15.00	75.07
RP115140120A*	115.00	140.00	12.00	64.01
RP115140150A	115.00	140.00	15.00	80.02
RP115140180A*	115.00	140.00	18.00	31.31
RP120130070A*	120.00	130.00	7.00	28.07
RP120130120A*	120.00	130.00	12.00	26.34
RP120130140A	120.00	130.00	14.00	20.45
RP120132100A*	120.00	132.00	10.00	29.15
RP120132120A*	120.00	132.00	12.00	31.86
RP120135090A*	120.00	135.00	9.00	30.23
RP120135120A*	120.00	135.00	12.00	40.30
RP120135150A*	120.00	135.00	15.00	33.04
RP120140100A*	120.00	140.00	10.00	15.89
RP120140120A*	120.00	140.00	12.00	20.87
RP120140145A*	120.00	140.00	14.50	75.88
RP120140150A	120.00	140.00	15.00	25.45
RP120140160A*	120.00	140.00	16.00	69.62
RP120145120A*	120.00	145.00	12.00	66.52
RP120145150A*	120.00	145.00	15.00	83.15
RP120145180A*	120.00	145.00	18.00	31.75
RP120150150A*	120.00	150.00	15.00	61.01
RP120150180A*	120.00	150.00	18.00	37.36
RP125140089A	125.00	140.00	8.90	39.65
RP125140090A*	125.00	140.00	9.00	27.21
RP125140110A*	125.00	140.00	11.00	25.45
RP125140120A	125.00	140.00	12.00	21.04
RP125140150A*	125.00	140.00	15.00	49.89
RP125145100A*	125.00	145.00	10.00	31.96
RP125145120A	125.00	145.00	12.00	54.22
RP125145150A*	125.00	145.00	15.00	58.99
RP125145180A*	125.00	145.00	18.00	34.81
RP125150150A*	125.00	150.00	15.00	86.29
RP125150180A*	125.00	150.00	18.00	19.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

A series - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP125155150A*	125.00	155.00	15.00	28.09
RP125155180A*	125.00	155.00	18.00	41.25
RP127151160A*	127.00	151.00	16.00	38.44
RP130140080A*	130.00	140.00	8.00	26.56
RP130145090A*	130.00	145.00	9.00	32.60
RP130145120A	130.00	145.00	12.00	43.02
RP130145150A*	130.00	145.00	15.00	51.77
RP130150100A*	130.00	150.00	10.00	46.86
RP130150120A*	130.00	150.00	12.00	56.23
RP130150150A	130.00	150.00	15.00	36.93
RP130152130A*	130.00	152.00	13.00	41.03
RP130155120A*	130.00	155.00	12.00	71.54
RP130155150A*	130.00	155.00	15.00	89.43
RP130160150A*	130.00	160.00	15.00	109.20
RP130160180A*	130.00	160.00	18.00	43.19
RP132145090A*	132.00	145.00	9.00	28.46
RP132152150A*	132.00	152.00	15.00	71.29
RP135150120A*	135.00	150.00	12.00	43.02
RP135150150A*	135.00	150.00	15.00	19.16
RP135155120A*	135.00	155.00	12.00	58.24
RP135155150A*	135.00	155.00	15.00	54.88
RP135160150A*	135.00	160.00	15.00	92.57
RP135165150A*	135.00	165.00	15.00	67.79
RP136150085A	136.00	150.00	8.50	58.68
RP136150090A*	136.00	150.00	9.00	65.01
RP140150150A*	140.00	150.00	15.00	38.20
RP140152100A*	140.00	152.00	10.00	30.77
RP140154089A*	140.00	154.00	8.90	58.68
RP140155089A*	140.00	155.00	8.90	57.43
RP140155090A*	140.00	155.00	9.00	24.18
RP140155100A*	140.00	155.00	10.00	38.86
RP140155150A*	140.00	155.00	15.00	55.54
RP140160080A*	140.00	160.00	8.00	35.63
RP140160100A*	140.00	160.00	10.00	36.93
RP140160120A	140.00	160.00	12.00	60.25
RP140160150A*	140.00	160.00	15.00	61.46
RP140160160A	140.00	160.00	16.00	80.33
RP140165150A*	140.00	165.00	15.00	33.01
RP140165180A*	140.00	165.00	18.00	41.03
RP140170180A*	140.00	170.00	18.00	42.33
RP145160080A*	145.00	160.00	8.00	34.55
RP145160089A*	145.00	160.00	8.90	60.28
RP145160090A	145.00	160.00	9.00	74.09
RP145160120A*	145.00	160.00	12.00	45.94
RP145165150A*	145.00	165.00	15.00	73.32
RP145170150A*	145.00	170.00	15.00	98.84

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP145170180A*	145.00	170.00	18.00	45.13
RP145175150A*	145.00	175.00	15.00	120.50
RP145175180A*	145.00	175.00	18.00	45.13
RP150165089A	150.00	165.00	8.90	70.14
RP150165090A*	150.00	165.00	9.00	36.71
RP150170120A	150.00	170.00	12.00	64.26
RP150170150A	150.00	170.00	15.00	73.32
RP150180150A*	150.00	180.00	15.00	44.27
RP150180180A*	150.00	180.00	18.00	45.57
RP155175150A*	155.00	175.00	15.00	41.46
RP155180150A*	155.00	180.00	15.00	81.76
RP160170050A*	160.00	170.00	5.00	43.19
RP160170120A*	160.00	170.00	12.00	34.77
RP160175090A	160.00	175.00	9.00	87.68
RP160175120A*	160.00	175.00	12.00	50.46
RP160175150A*	160.00	175.00	15.00	63.07
RP160180100A*	160.00	180.00	10.00	30.98
RP160180120A*	160.00	180.00	12.00	68.28
RP160180150A	160.00	180.00	15.00	53.99
RP160185120A*	160.00	185.00	12.00	86.61
RP160185150A	160.00	185.00	15.00	89.88
RP160185180A*	160.00	185.00	18.00	129.91
RP160190150A*	160.00	190.00	15.00	131.79
RP160190180A*	160.00	190.00	18.00	158.15
RP160190220A*	160.00	190.00	22.00	37.49
RP160195170A*	160.00	195.00	17.00	64.79
RP165180090A	165.00	180.00	9.00	91.65
RP165180095A*	165.00	180.00	9.50	34.76
RP165180150A*	165.00	180.00	15.00	64.95
RP165183100A*	165.00	183.00	10.00	92.78
RP165185150A	165.00	185.00	15.00	87.86
RP165190150A	165.00	190.00	15.00	96.54
RP165195200A*	165.00	195.00	20.00	78.39
RP168180140A*	168.00	180.00	14.00	50.97
RP170180120A*	170.00	180.00	12.00	36.88
RP170190150A	170.00	190.00	15.00	39.01
RP170195120A*	170.00	195.00	12.00	91.63
RP170195150A*	170.00	195.00	15.00	101.35
RP170200150A*	170.00	200.00	15.00	139.32
RP170200180A*	170.00	200.00	18.00	167.19
RP170200220A*	170.00	200.00	22.00	42.41
RP170215200A*	170.00	215.00	20.00	289.94
RP175195150A*	175.00	195.00	15.00	85.09
RP175200150A	175.00	200.00	15.00	104.64
RP175205150A*	175.00	205.00	15.00	143.09
RP175215200A*	175.00	215.00	20.00	109.71

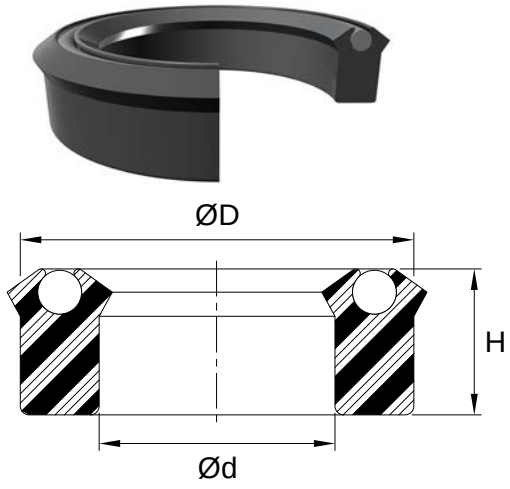
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP180190100A*	180.00	190.00	10.00	32.49
RP180200120A	180.00	200.00	12.00	94.04
RP180200150A	180.00	200.00	15.00	51.45
RP180200160A*	180.00	200.00	16.00	93.46
RP180205150A	180.00	205.00	15.00	110.58
RP180205180A*	180.00	205.00	18.00	144.97
RP180210150A*	180.00	210.00	15.00	72.10
RP180210220A*	180.00	210.00	22.00	42.41
RP180215150A*	180.00	215.00	15.00	173.52
RP185195120A*	185.00	195.00	12.00	74.50
RP185200090A*	185.00	200.00	9.00	71.48
RP185200120A*	185.00	200.00	12.00	57.99
RP185200150A*	185.00	200.00	15.00	72.49
RP185205150A*	185.00	205.00	15.00	97.90
RP185210150A*	185.00	210.00	15.00	123.95
RP185215150A*	185.00	215.00	15.00	150.62
RP190205160A*	190.00	205.00	16.00	79.33
RP190210120A*	190.00	210.00	12.00	114.79
RP190210150A	190.00	210.00	15.00	45.35
RP190215150A*	190.00	215.00	15.00	116.97
RP190220150A	190.00	220.00	15.00	154.38
RP190220220A*	190.00	220.00	22.00	226.43
RP190220250A*	190.00	220.00	25.00	65.91
RP190225300A*	190.00	225.00	30.00	123.31
RP200215120A*	200.00	215.00	12.00	62.51
RP200220120A	200.00	220.00	12.00	119.02
RP200220150A	200.00	220.00	15.00	86.38
RP200225150A	200.00	225.00	15.00	120.43
RP200225180A*	200.00	225.00	18.00	68.73
RP200230180A*	200.00	230.00	18.00	59.11
RP200230220A*	200.00	230.00	22.00	95.02
RP200235200A*	200.00	235.00	20.00	109.71
RP200240200A*	200.00	240.00	20.00	129.36
RP210230150A	210.00	230.00	15.00	110.45
RP210235180A	210.00	235.00	18.00	125.96
RP210240180A*	210.00	240.00	18.00	72.62
RP215240180A*	215.00	240.00	18.00	171.33
RP215245180A*	215.00	245.00	18.00	129.36
RP220240120A*	220.00	240.00	12.00	127.44
RP220250150A*	220.00	250.00	15.00	68.02
RP220250170A	220.00	250.00	17.00	128.59
RP220250180A	220.00	250.00	18.00	100.97
RP220250200A*	220.00	250.00	20.00	74.97
RP225240120A*	225.00	240.00	12.00	94.00
RP225245150A*	225.00	245.00	15.00	76.63
RP225250150A*	225.00	250.00	15.00	129.36

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP225255260A*	225.00	255.00	26.00	313.29
RP230250120A	230.00	250.00	12.00	129.17
RP230250150A	230.00	250.00	15.00	68.02
RP230255180A*	230.00	255.00	18.00	182.62
RP230260180A*	230.00	260.00	18.00	129.36
RP235255120A	235.00	255.00	12.00	129.36
RP240260160A	240.00	260.00	16.00	73.53
RP240265180A*	240.00	265.00	18.00	136.27
RP240270180A*	240.00	270.00	18.00	81.55
RP245275180A*	245.00	275.00	18.00	141.45
RP250270150A	250.00	270.00	15.00	137.37
RP250275180A*	250.00	275.00	18.00	158.73
RP250275190A*	250.00	275.00	19.00	152.90
RP250280180A*	250.00	280.00	18.00	97.40
RP250280220A*	250.00	280.00	22.00	168.66
RP260280140A	260.00	280.00	14.00	126.52
RP260280180A*	260.00	280.00	18.00	162.67
RP260290150A*	260.00	290.00	15.00	168.45
RP260290180A*	260.00	290.00	18.00	84.34
RP265290170A*	265.00	290.00	17.00	116.56
RP265295180A*	265.00	295.00	18.00	186.90
RP270290170A*	270.00	290.00	17.00	95.22
RP270300180A*	270.00	300.00	18.00	181.19
RP270300190A*	270.00	300.00	19.00	181.19
RP275300160A*	275.00	300.00	16.00	192.46
RP280300150A	280.00	300.00	15.00	113.66
RP280300180A*	280.00	300.00	18.00	174.72
RP280310180A*	280.00	310.00	18.00	219.43
RP280310200A*	280.00	310.00	20.00	296.22
RP290310120A*	290.00	310.00	12.00	252.67
RP290320180A*	290.00	320.00	18.00	275.63
RP300320150A*	300.00	320.00	15.00	249.21
RP300330180A*	300.00	330.00	18.00	231.93
RP300330190A*	300.00	330.00	19.00	278.58
RP310330150A*	310.00	330.00	15.00	264.33
RP320350190A*	320.00	350.00	19.00	307.31
RP325360200A*	325.00	360.00	20.00	341.21
RP330350150A*	330.00	350.00	15.00	170.70
RP340360150A*	340.00	360.00	15.00	269.51
RP360380160A*	360.00	380.00	16.00	276.42
RP370400220A*	370.00	400.00	22.00	425.25
RP375395120A*	375.00	395.00	12.00	263.03
RP375405220A*	375.00	405.00	22.00	199.27
RP400425190A*	400.00	425.00	19.00	310.76
RP400425250A*	400.00	425.00	25.00	213.51
RP430450150A*	430.00	450.00	15.00	283.33

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

B - Rod/Piston Seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/Nitrile	-40°F to +230°F (-40°C to +110°C)	≤5000 psi (≤345 bar)	< 1.6 ft/s (0.5 m/s)

B-type rod/piston seal is a squeeze seal with a symmetrical profile. The polyurethane shell provides high wear resistance and the O'Ring loader functions as a pre-loading device to insure high seal ability at low pressures or vacuum, and the back-beveled lips allows for excellent film cutting ability.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP006014057B	6.00	14.00	5.70	24.36
RP008016057B*	8.00	16.00	5.70	20.84
RP009019080B*	9.00	19.00	8.00	6.80
RP010016060B*	10.00	16.00	6.00	7.48
RP010018057B*	10.00	18.00	5.70	30.45
RP010020073B*	10.00	20.00	7.30	23.48
RP010020080B	10.00	20.00	8.00	6.71
RP012022060B*	12.00	22.00	6.00	7.55
RP012022073B*	12.00	22.00	7.30	42.99
RP012022077B*	12.00	22.00	7.70	7.32
RP012022080B*	12.50	22.50	8.00	7.94
RP014022050B	14.00	22.00	5.00	7.94
RP014024073B*	14.00	24.00	7.30	25.16
RP014024080B	14.00	24.00	8.00	7.94
RP015023057B*	15.00	23.00	5.70	34.42
RP015025080B*	15.00	25.00	8.00	8.37
RP016022045B*	16.00	22.20	4.50	23.08
RP016024050B	16.00	24.00	5.00	7.45
RP016024057B*	16.00	24.00	5.70	32.17
RP016026073B*	16.00	26.00	7.30	29.09
RP016026080B*	16.00	26.00	8.00	8.37
RP018024050B*	18.00	24.00	5.00	28.35
RP018026050B	18.00	26.00	5.00	8.57

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP018026057B*	18.00	26.00	5.70	27.45
RP018028080B	18.00	28.00	8.00	14.99
RP020026050B	20.00	26.00	5.00	7.51
RP020028050B	20.00	28.00	5.00	9.49
RP020028057B*	20.00	28.00	5.70	26.08
RP020028065B*	20.00	28.00	6.50	42.91
RP020030060B*	20.00	30.00	6.00	10.44
RP020030073B*	20.00	30.00	7.30	25.28
RP020030080B*	20.00	30.00	8.00	9.25
RP020032060B*	20.00	32.00	6.00	10.18
RP020032080B*	20.00	32.00	8.00	10.42
RP020035100B	20.00	35.00	10.00	16.65
RP020035120B*	20.00	35.00	12.00	11.29
RP020040120B*	20.00	40.00	12.00	20.02
RP022030050B	22.40	30.00	5.00	10.53
RP022030057B*	22.00	30.00	5.70	10.26
RP022030060B*	22.00	30.00	6.00	9.81
RP022030070B*	22.00	30.00	7.00	10.90
RP022030080B*	22.00	30.00	8.00	11.10
RP022032060B*	22.00	32.00	6.00	11.83
RP022032073B	22.00	32.00	7.30	30.49
RP022032080B	22.40	32.40	8.00	13.03
RP022035080B*	22.00	35.00	8.00	10.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP022035100B*	22.00	35.00	10.00	10.55
RP022040120B	22.00	40.00	12.00	12.46
RP024032070B*	24.00	32.00	7.00	59.34
RP025033050B	25.00	33.00	5.00	10.83
RP025033057B	25.00	33.00	5.70	24.80
RP025033080B	25.00	33.00	8.00	12.73
RP025033100B*	25.00	33.00	10.00	11.74
RP025035073B	25.00	35.00	7.30	38.42
RP025035080B	25.00	35.00	8.00	13.03
RP025035100B*	25.00	35.00	10.00	13.03
RP025040100B*	25.00	40.00	10.00	46.28
RP028035050B	28.00	35.50	5.00	12.78
RP028035065B*	28.00	35.00	6.50	40.79
RP028036057B	28.00	36.00	5.70	37.54
RP028038073B*	28.00	38.00	7.30	38.14
RP028038080B	28.00	38.00	8.00	13.03
RP028038100B*	28.00	38.00	10.00	13.02
RP028040100B*	28.00	40.00	10.00	13.03
RP028043100B*	28.00	43.00	10.00	13.03
RP030038057B	30.00	38.00	5.70	29.57
RP030038063B*	30.00	38.00	6.30	29.57
RP030038070B*	30.00	38.00	7.00	40.31
RP030038080B*	30.00	38.00	8.00	29.57
RP030040060B	30.00	40.00	6.00	14.72
RP030040070B*	30.00	40.00	7.00	14.72
RP030040073B	30.00	40.00	7.30	14.73
RP030040100B	30.00	40.00	10.00	13.88
RP030042090B	30.00	42.00	9.00	15.10
RP030042100B*	30.00	42.00	10.00	51.17
RP030045080B*	30.00	45.00	8.00	43.35
RP030045090B*	30.00	45.00	9.00	11.09
RP030045100B*	30.00	45.00	10.00	11.10
RP030045114B	30.00	45.00	11.40	51.73
RP030050100B*	30.00	50.00	10.00	12.21
RP032040057B	32.00	40.00	5.70	31.49
RP032040080B	32.00	40.00	8.00	11.81
RP032042073B	32.00	42.00	7.30	15.10
RP032042100B*	32.00	42.00	10.00	10.52
RP032047100B*	32.00	47.00	10.00	12.08
RP032048100B	32.00	48.00	10.00	17.68
RP035043057B*	35.00	43.00	5.70	39.95
RP035043064B*	35.00	43.00	6.40	O/R
RP035043080B*	35.00	43.00	8.00	31.85
RP035045060B	35.00	45.00	6.00	15.67
RP035045073B*	35.00	45.00	7.30	17.68
RP035045080B	35.00	45.00	8.00	37.78

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP035045100B	35.00	45.00	10.00	15.04
RP035047100B*	35.00	47.00	10.00	61.82
RP035050090B*	35.00	50.00	9.00	12.25
RP035050100B	35.00	50.00	10.00	12.24
RP035050114B*	35.00	50.00	11.40	61.82
RP035055100B*	35.00	55.00	10.00	18.06
RP036044057B	36.00	44.00	5.70	26.24
RP036044060B*	36.00	44.00	6.00	10.03
RP036046073B	36.00	46.00	7.30	30.57
RP036046100B*	36.00	46.00	10.00	16.95
RP036051114B*	36.00	51.00	11.40	147.81
RP040048050B*	40.00	48.00	5.00	11.08
RP040048057B	40.00	48.00	5.70	37.06
RP040048060B*	40.00	48.00	6.00	11.08
RP040048080B	40.00	48.00	8.00	11.09
RP040050060B	40.00	50.00	6.00	16.18
RP040050065B*	40.00	50.00	6.50	16.17
RP040050073B	40.00	50.00	7.30	17.87
RP040050080B*	40.00	50.00	8.00	16.90
RP040050100B	40.00	50.00	10.00	16.91
RP040052100B*	40.00	52.00	10.00	42.51
RP040053080B	40.00	53.00	8.00	17.74
RP040055090B	40.00	55.00	9.00	17.74
RP040055100B	40.00	55.00	10.00	17.19
RP040060120B*	40.00	60.00	12.00	19.50
RP042050065B*	42.00	50.00	6.50	37.18
RP042055070B	42.00	55.00	7.00	17.74
RP045053080B	45.00	53.00	8.00	17.03
RP045055060B	45.00	55.00	6.00	17.19
RP045055073B	45.00	55.00	7.30	17.19
RP045055080B*	45.00	55.00	8.00	52.73
RP045055100B	45.00	55.00	10.00	21.97
RP045060090B	45.00	60.00	9.00	21.97
RP045060100B*	45.00	60.00	10.00	22.36
RP045060114B*	45.00	60.00	11.40	58.50
RP045065114B*	45.00	65.00	11.40	42.99
RP045065120B*	45.00	65.00	12.00	24.78
RP050058080B	50.00	58.00	8.00	41.43
RP050060060B	50.00	60.00	6.00	17.47
RP050060073B	50.00	60.00	7.30	20.42
RP050060075B*	50.00	60.00	7.50	42.68
RP050060080B*	50.00	60.00	8.00	16.61
RP050060100B	50.00	60.00	10.00	16.60
RP050062095B*	50.00	62.00	9.50	41.71
RP050063080B*	50.00	63.00	8.00	23.02
RP050063100B	50.00	63.00	10.00	44.43

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

B series - AU/NBR

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP050065090B	50.00	65.00	9.00	23.01
RP050065100B	50.00	65.00	10.00	24.72
RP050065114B	50.00	65.00	11.40	59.50
RP050070120B	50.00	70.00	12.00	25.98
RP053063060B	53.00	63.00	6.00	18.03
RP055065060B*	55.00	65.00	6.00	19.55
RP055065073B	55.00	65.00	7.30	38.46
RP055065100B*	55.00	65.00	10.00	28.09
RP055065110B*	55.00	65.00	11.00	54.77
RP055065120B*	55.00	65.00	12.00	28.09
RP055070090B	55.00	70.00	9.00	24.48
RP055070120B*	55.00	70.00	12.00	26.31
RP055075120B	55.00	75.00	12.00	29.45
RP055075145B*	55.00	75.00	14.50	54.93
RP056064080B*	56.00	64.00	8.00	O/R
RP056066060B	56.00	66.00	6.00	18.71
RP056066100B	56.00	66.00	10.00	85.58
RP056071114B	56.00	71.00	11.40	79.53
RP060068070B	60.00	68.00	7.00	30.77
RP060068130B*	60.00	68.00	13.00	34.66
RP060070060B	60.00	70.00	6.00	19.01
RP060070073B	60.00	70.00	7.30	36.62
RP060070080B*	60.00	70.00	8.00	18.23
RP060070090B*	60.00	70.00	9.00	18.23
RP060070100B	60.00	70.00	10.00	18.23
RP060070105B*	60.00	70.00	10.50	47.92
RP060070120B	60.00	70.00	12.00	42.47
RP060071070B*	60.00	71.00	7.00	16.91
RP060072090B*	60.00	72.00	9.00	49.72
RP060075090B	60.00	75.00	9.00	25.41
RP060075100B*	60.00	75.00	10.00	25.42
RP060075135B*	60.00	75.00	13.50	141.36
RP060080120B*	60.00	80.00	12.00	26.46
RP063075087B	63.00	75.00	8.70	23.09
RP063075087B/T652	63.00	75.00	8.70	O/R
RP063078090B*	63.00	78.00	9.00	30.35
RP063078100B*	63.00	78.00	10.00	30.35
RP063078106B*	63.00	78.00	10.60	30.35
RP063078114B	63.00	78.00	11.40	45.64
RP063083120B*	63.00	83.00	12.00	28.50
RP063083145B	63.00	83.00	14.50	57.18
RP063083150B*	63.00	83.00	15.00	28.50
RP064080120B*	64.00	80.00	12.00	44.68
RP065073070B*	65.00	73.00	7.00	46.18
RP065075060B	65.00	75.00	6.00	28.50
RP065075080B*	65.00	75.00	8.00	28.50

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP065075100B	65.00	75.00	10.00	41.27
RP065075120B*	65.00	75.00	12.00	30.62
RP065080090B	65.00	80.00	9.00	21.32
RP065080100B	65.00	80.00	10.00	23.60
RP065080120B*	65.00	80.00	12.00	25.58
RP065085120B*	65.00	85.00	12.00	28.15
RP070080060B	70.00	80.00	6.00	30.30
RP070080114B*	70.00	80.00	11.40	37.50
RP070082087B*	70.00	82.00	8.70	43.71
RP070082095B*	70.00	82.00	9.50	49.96
RP070085090B	70.00	85.00	9.00	29.89
RP070085100B	70.00	85.00	10.00	31.20
RP070085114B	70.00	85.00	11.40	22.14
RP070090120B*	70.00	90.00	12.00	28.26
RP070090145B*	70.00	90.00	14.50	247.94
RP071080060B*	71.00	80.00	6.00	36.72
RP073080070B*	73.00	80.00	7.00	48.99
RP075085060B*	75.00	85.00	6.00	19.80
RP075085120B*	75.00	85.00	12.00	24.13
RP075090090B	75.00	90.00	9.00	31.64
RP075090114B*	75.00	90.00	11.40	85.38
RP075090124B*	75.00	90.00	12.40	85.38
RP075095120B*	75.00	95.00	12.00	33.08
RP080088065B*	80.00	88.00	6.50	85.38
RP080090060B	80.00	90.00	6.00	38.67
RP080090100B*	80.00	90.00	10.00	32.75
RP080090114B*	80.00	90.00	11.40	116.24
RP080092090B*	80.00	92.00	9.00	47.44
RP080092095B*	80.00	92.00	9.50	27.76
RP080095090B*	80.00	95.00	9.00	43.95
RP080095114B	80.00	95.00	11.40	43.95
RP080100120B	80.00	100.00	12.00	37.42
RP080100145B*	80.00	100.00	14.50	53.51
RP080100150B	80.00	100.00	15.00	182.79
RP082092100B*	82.00	92.00	10.00	154.02
RP085100090B*	85.00	100.00	9.00	25.46
RP085100095B*	85.00	100.00	9.50	107.02
RP085100100B*	85.00	100.00	10.00	36.01
RP085100120B	85.00	100.00	12.00	58.34
RP085100125B*	85.00	100.00	12.50	44.47
RP085105120B*	85.00	105.00	12.00	44.47
RP090100060B	90.00	100.00	6.00	36.31
RP090100114B*	90.00	100.00	11.40	51.25
RP090100120B*	90.00	100.00	12.00	51.24
RP090105090B	90.00	105.00	9.00	39.46
RP090105114B	90.00	105.00	11.40	53.37

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP090105120B*	90.00	105.00	12.00	53.36
RP090110120B	90.00	110.00	12.00	56.99
RP090110145B	90.00	110.00	14.50	55.37
RP095105114B*	95.00	105.00	11.40	80.09
RP095110090B*	95.00	110.00	9.00	57.12
RP095110100B*	95.00	110.00	10.00	57.12
RP095110114B*	95.00	110.00	11.40	118.68
RP095110120B*	95.00	110.00	12.00	61.44
RP095115120B*	95.00	115.00	12.00	56.99
RP097105130B*	97.00	105.00	13.00	120.61
RP100110114B*	100.00	110.00	11.40	70.60
RP100115090B	100.00	115.00	9.00	45.07
RP100115100B*	100.00	115.00	10.00	53.93
RP100115110B*	100.00	115.00	11.00	126.49
RP100115120B*	100.00	115.00	12.00	53.93
RP100115146B*	100.00	115.00	14.60	140.36
RP100120120B*	100.00	120.00	12.00	47.74
RP100120145B	100.00	120.00	14.50	69.44
RP100125124B*	100.00	125.00	12.40	74.59
RP100125150B*	100.00	125.00	15.00	76.39
RP100125182B*	100.00	125.00	18.20	233.67
RP105115100B*	105.00	115.00	10.00	97.64
RP105120090B	105.00	120.00	9.00	48.07
RP105120100B*	105.00	120.00	10.00	48.07
RP105120114B*	105.00	120.00	11.40	159.95
RP105125114B*	105.00	125.00	11.40	48.07
RP105125120B*	105.00	125.00	12.00	48.07
RP105125150B	105.00	125.00	15.00	48.07
RP110125090B*	110.00	125.00	9.00	54.42
RP110125100B*	110.00	125.00	10.00	54.42
RP110125114B*	110.00	125.00	11.40	75.09
RP110125120B	110.00	125.00	12.00	O/R
RP110130100B*	110.00	130.00	10.00	49.89
RP110130120B*	110.00	130.00	12.00	49.89
RP110130145B*	110.00	130.00	14.50	48.91
RP110130150B*	110.00	130.00	15.00	50.59
RP110135182B*	110.00	135.00	18.20	153.54
RP115125114B*	115.00	125.00	11.40	66.87
RP115130114B*	115.00	130.00	11.40	119.76
RP115135120B	115.00	135.00	12.00	51.70
RP120130114B*	120.00	130.00	11.40	65.11
RP120140100B*	120.00	140.00	10.00	64.63
RP120140120B*	120.00	140.00	12.00	64.63
RP120140145B*	120.00	140.00	14.50	52.41
RP120140150B	120.00	140.00	15.00	54.15
RP125135114B	125.00	135.00	11.40	58.82

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP125140090B*	125.00	140.00	9.00	51.63
RP125140114B*	125.00	140.00	11.40	115.43
RP125140150B*	125.00	140.00	15.00	58.97
RP125145145B*	125.00	145.00	14.50	96.60
RP125145150B	125.00	145.00	15.00	56.88
RP125150180B*	125.00	150.00	18.00	68.93
RP125150182B*	125.00	150.00	18.20	119.28
RP130145090B	130.00	145.00	9.00	78.13
RP130150120B*	130.00	150.00	12.00	52.08
RP130150130B*	130.00	150.00	13.00	52.08
RP130150150B	130.00	150.00	15.00	52.08
RP130150160B*	130.00	150.00	16.00	56.88
RP135150090B	135.00	150.00	9.00	42.78
RP135155150B*	135.00	155.00	15.00	54.00
RP140160120B*	140.00	160.00	12.00	71.27
RP140160145B*	140.00	160.00	14.50	133.99
RP140160150B	140.00	160.00	15.00	58.67
RP140165182B*	140.00	165.00	18.20	71.37
RP145160090B*	145.00	160.00	9.00	50.70
RP150160114B*	150.00	160.00	11.40	118.24
RP150170150B	150.00	170.00	15.00	62.07
RP150170160B*	150.00	170.00	16.00	66.37
RP150180180B	150.00	180.00	18.00	88.24
RP155180150B*	155.00	180.00	15.00	73.85
RP155180160B*	155.00	180.00	16.00	73.85
RP160175090B*	160.00	175.00	9.00	53.45
RP160180150B*	160.00	180.00	15.00	63.32
RP160185160B*	160.00	185.00	16.00	63.32
RP160185182B*	160.00	185.00	18.20	147.65
RP165180095B*	165.00	180.00	9.50	55.25
RP170190150B*	170.00	190.00	15.00	64.57
RP170195150B*	170.00	195.00	15.00	58.46
RP175200150B*	175.00	200.00	15.00	83.37
RP175200160B*	175.00	200.00	16.00	83.37
RP175200180B*	175.00	200.00	18.00	89.86
RP180190114B*	180.00	190.00	11.40	97.76
RP180200125B*	180.00	200.00	12.50	74.56
RP180200150B*	180.00	200.00	15.00	195.77
RP180205160B*	180.00	205.00	16.00	77.96
RP180210227B*	180.00	210.00	22.70	364.65
RP190210120B	190.00	210.00	12.00	77.88
RP190210150B*	190.00	210.00	15.00	79.83
RP190215150B*	190.00	215.00	15.00	90.84
RP190215160B*	190.00	215.00	16.00	90.85
RP200220125B*	200.00	220.00	12.50	204.18
RP200220150B*	200.00	220.00	15.00	82.88

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

B series - AU/NBR

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP200225150B*	200.00	225.00	15.00	95.60
RP200225160B*	200.00	225.00	16.00	95.60
RP200225180B*	200.00	225.00	18.00	95.60
RP200225182B*	200.00	225.00	18.20	389.30
RP205225182B*	205.00	225.00	18.20	393.35
RP205235180B*	205.00	235.00	18.00	170.65
RP210230120B*	210.00	230.00	12.00	178.82
RP210230145B*	210.00	230.00	14.50	475.53
RP220240150B*	220.00	240.00	15.00	383.56
RP220250180B*	220.00	250.00	18.00	483.62
RP220250227B*	220.00	250.00	22.70	225.12
RP225250180B*	225.00	250.00	18.00	229.02
RP225250190B*	225.00	250.00	19.00	234.21
RP225255225B*	225.00	255.00	22.50	237.87
RP230250125B*	230.00	250.00	12.50	240.94
RP230250150B*	230.00	250.00	15.00	241.33

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP230255190B*	230.00	255.00	19.00	251.76
RP240260145B*	240.00	260.00	14.50	366.86
RP240265180B*	240.00	265.00	18.00	124.44
RP250270120B*	250.00	270.00	12.00	305.25
RP250275190B*	250.00	275.00	19.00	315.06
RP250280227B*	250.00	280.00	22.70	175.46
RP250290200B*	250.00	290.00	20.00	165.20
RP260290180B*	260.00	290.00	18.00	O/R
RP270300190B*	270.00	300.00	19.00	198.60
RP280305160B*	280.00	305.00	16.00	O/R
RP280310190B*	280.00	310.00	19.00	O/R
RP290320180B*	290.00	320.00	18.00	O/R
RP300330190B*	300.00	330.00	19.00	O/R
RP300330350B*	300.00	330.00	35.00	O/R
RP360400290B*	360.00	400.00	29.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

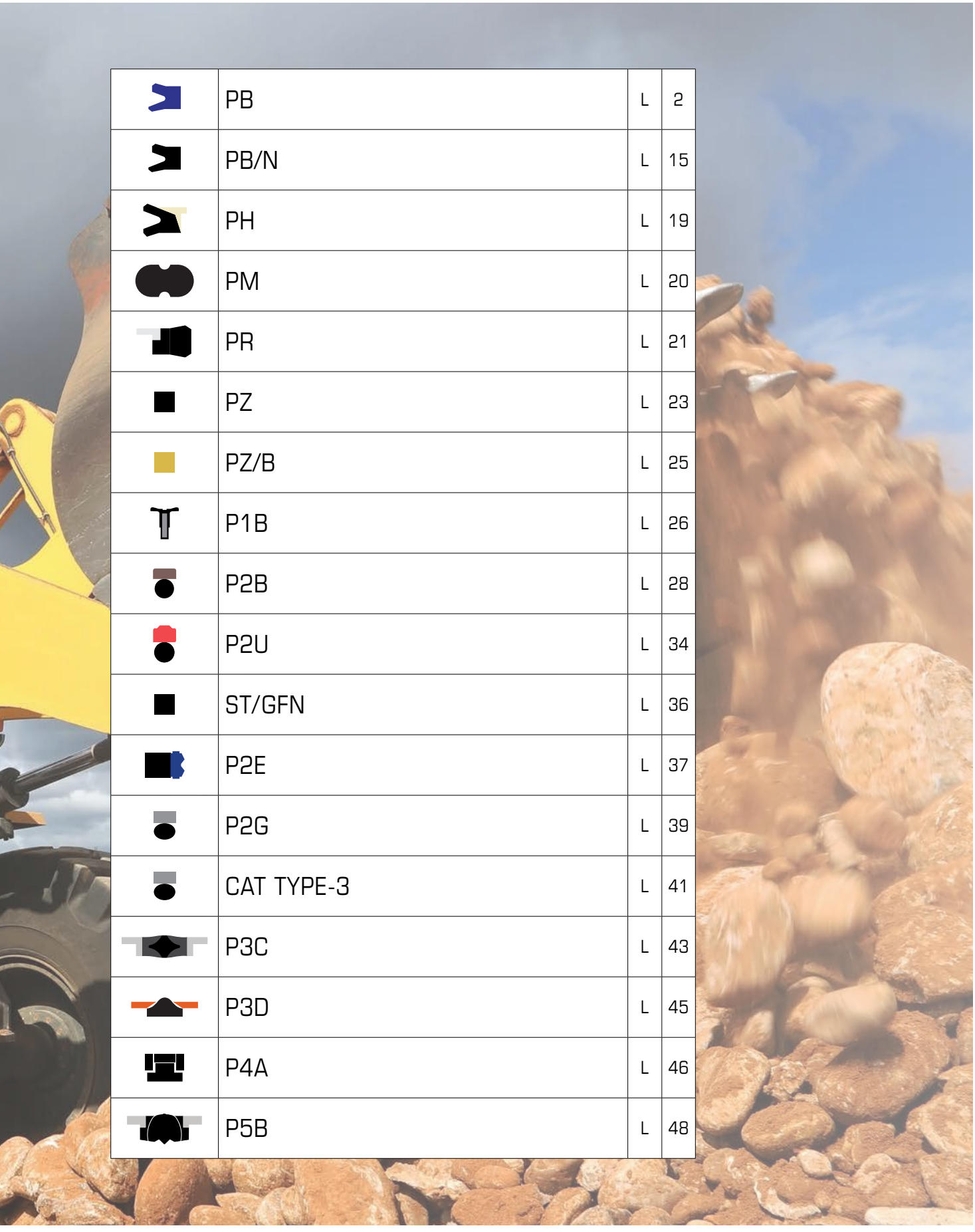
Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.







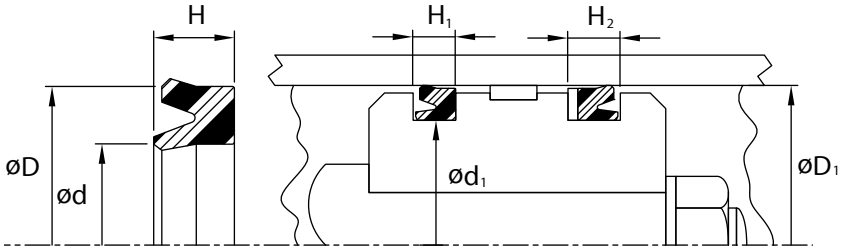


	PB	L	2
	PB/N	L	15
	PH	L	19
	PM	L	20
	PR	L	21
	PZ	L	23
	PZ/B	L	25
	P1B	L	26
	P2B	L	28
	P2U	L	34
	ST/GFN	L	36
	P2E	L	37
	P2G	L	39
	CAT TYPE-3	L	41
	P3C	L	43
	P3D	L	45
	P4A	L	46
	P5B	L	48

PB - Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane	-40°F to +212°F (-40°C to +100°C)	≤6000 psi (≤414 bar)	<1.6 ft/s (0.5 m/s)



N.B.: H2 = H1 + B.UP RING THICKNESS

The **PB-style** is a non-symmetrical hydraulic piston type U-cup. Being uni-directional in design, two PB seals must be used, bask to back, in separate grooves to provide bi-directional pressure sealing.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P012004040PB*	**12.00**	+0.08 -0.00	12.00	4.50	4.00	12.00	+0.08 -0.00	4.50	+0.00 -0.06	4.50	+0.30 -0.00	3.05
P012005053PB*	**12.00**		12.00	5.00	5.30	12.00		5.00		6.00		3.24
P014006060PB*	**14.00**		14.00	6.00	6.00	14.00		6.00		7.00		3.05
P014006080PB*	**14.00**		14.00	6.00	8.00	14.00		6.00		9.00		3.05
P014008045PB*	**14.00**		14.00	8.00	4.50	14.00		8.00		5.00		3.05
P014008063PB*	**14.00**		14.00	8.00	6.30	14.00		8.00		6.80		3.24
P015009080PB*	**15.00**		15.00	9.00	8.00	15.00		9.00		9.00		3.05
P016006100PB*	**16.00**		16.00	6.00	10.00	16.00		6.00		11.00		3.43
P016008055PB*	**16.00**		16.00	8.00	5.50	16.00		8.00		6.50		3.30
P016009055PB*	**16.00**		16.00	9.00	5.50	16.00		9.00		6.50		3.30
P016010040PB*	**16.00**		16.00	10.00	4.00	16.00		10.00		4.50		3.30
P016010055PB*	**16.00**		16.00	10.00	5.50	16.00		10.00		6.50		3.30
P016010060PB*	**16.00**		16.00	10.00	6.00	16.00		10.00		6.50		3.81
P016010080PB*	**16.00**		16.00	10.00	8.00	16.00		10.00		9.00		3.43
P020010060PB*	**20.00**		20.00	10.00	6.00	20.00		10.00		7.00		11.17
P020010075PB*	**20.00**		20.00	10.00	7.50	20.00		10.00		8.50		6.62
P020010080PB*	**20.00**		20.00	10.00	8.00	20.00		10.00		9.00		6.62
P020012050PB*	**20.00**		20.00	12.00	5.00	20.00		12.00	+0.00 -0.07	6.00		6.62
P020012055PB*	**20.00**		20.00	12.00	5.50	20.00		12.00		6.50		4.07
P020012065PB*	**20.00**		20.00	12.00	6.50	20.00		12.00		7.50		4.85
P020012070PB*	**20.00**		20.00	12.00	7.00	20.00		12.00		8.00		4.62
P020014042PB*	**20.00**		20.00	14.00	4.20	20.00		14.00		4.70		3.56

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P020014050PB*	**20.00**	+ 0.08 - 0.00	20.00	14.00	5.00	20.00	+ 0.08 - 0.00	14.00	+ 0.00 - 0.07	6.00	+ 0.30 - 0.00	4.41
P020014053PB*	**20.00**		20.00	14.00	5.30	20.00		14.00		6.00		4.62
P020014055PB*	**20.00**		20.00	14.00	5.50	20.00		14.00		6.50		3.68
P022010080PB*	**22.00**		22.00	10.00	8.00	22.00		10.00		9.00		4.70
P022012080PB*	**22.00**		22.00	12.00	8.00	22.00		12.00		9.00		4.62
P022013070PB*	**22.00**		22.00	13.00	7.00	22.00		13.00		8.00		4.45
P022014050PB*	**22.00**		22.00	14.00	5.00	22.00		14.00		6.00		7.42
P022014090PB*	**22.00**		22.00	14.00	9.00	22.00		14.00		10.00		3.63
P022016040PB*	**22.00**		22.00	16.00	4.00	22.00		16.00		4.50		4.70
P022016055PB*	**22.00**		22.00	16.00	5.50	22.00		16.00		6.50		4.70
P024014075PB*	**24.00**		24.00	14.00	7.50	24.00		14.00		8.50		7.42
P024018053PB*	**24.00**		24.00	18.00	5.30	24.00		18.00		6.00		4.62
P025010100PB*	**25.00**		25.00	10.00	10.00	25.00		10.00		11.00		4.86
P025015050PB*	**25.00**		25.00	15.00	5.00	25.00		15.00		6.00		4.45
P025015060PB*	**25.00**		25.00	15.00	6.00	25.00		15.00		7.00		11.17
P025015080PB*	**25.00**		25.00	15.00	8.00	25.00		15.00		9.00		5.14
P025015082PB*	**25.00**		25.00	15.00	8.20	25.00		15.00		9.00		7.61
P025017050PB*	**25.00**		25.00	17.00	5.00	25.00		17.00		6.00		7.42
P025017055PB*	**25.00**		25.00	17.00	5.50	25.00		17.00		6.50		4.32
P025017057PB*	**25.00**		25.00	17.00	5.70	25.00		17.00		6.30		8.03
P025019030PB*	**25.00**		25.00	19.00	3.00	25.00		19.00		3.50		4.19
P025019060PB*	**25.00**		25.00	19.00	6.00	25.00		19.00		7.00		4.70
P026016075PB*	**26.00**		26.00	16.00	7.50	26.00		16.00		8.50		7.42
P026018050PB*	**26.00**		26.00	18.00	5.00	26.00		18.00		6.00		7.42
P026018055PB*	**26.00**		26.00	18.00	5.50	26.00		18.00		6.50		4.70
P026018070PB*	**26.00**		26.00	18.00	7.00	26.00		18.00		8.00		4.70
P028015100PB*	**28.00**		28.00	15.00	10.00	28.00		15.00		11.00		7.42
P028016090PB*	**28.00**		28.00	16.00	9.00	28.00		16.00		10.00		4.70
P028020050PB*	**28.00**		28.00	20.00	5.00	28.00		20.00	+ 0.00 - 0.08	6.00		7.42
P028022063PB*	**28.00**		28.00	22.20	6.30	28.00		22.20		7.30		7.42
P030015100PB*	**30.00**		30.00	15.00	10.00	30.00		15.00		11.00		5.34
P030020050PB*	**30.00**		30.00	20.00	5.00	30.00		20.00		6.00		11.17
P030020060PB*	**30.00**		30.00	20.00	6.00	30.00		20.00		7.00		11.17
P030020070PB*	**30.00**		30.00	20.00	7.00	30.00		20.00		8.00		5.08
P030020080PB*	**30.00**		30.00	20.00	8.00	30.00		20.00		9.00		5.95
P030022060PB*	**30.00**		30.00	22.00	6.00	30.00		22.00		7.00		5.08
P030022065PB*	**30.00**		30.00	22.00	6.50	30.00		22.00		7.50		5.95
P032022050PB*	**32.00**		32.00	22.00	5.00	32.00		22.00		6.00		5.08
P032022060PB*	**32.00**		32.00	22.00	6.00	32.00		22.00		7.00		7.42
P032022070PB*	**32.00**		32.00	22.00	7.00	32.00		22.00		8.00		5.08
P032022080PB*	**32.00**		32.00	22.00	8.00	32.00		22.00		9.00		5.95
P032022100PB*	**32.00**		32.00	22.00	10.00	32.00		22.00		11.00		5.95
P032024055PB*	**32.00**		32.00	24.00	5.50	32.00		24.00		6.50		5.08
P032024057PB	**32.00**		32.00	24.00	5.70	32.00		24.00		6.30		8.03
P032026053PB*	**32.00**		32.00	26.00	5.30	32.00		26.00		6.00		5.95
P033020100PB*	**33.00**		33.00	20.00	10.00	33.00		20.00		11.00		7.42

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PB series - AU 92A

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P033025050PB*	**33.00**	+ 0.08 - 0.00	33.00	25.00	5.00	33.00	+ 0.08 - 0.00	25.00	+ 0.00 - 0.08	6.00	+ 0.30 - 0.00	7.42
P034022085PB*	**34.00**		34.00	22.00	8.50	34.00		22.00		9.50		5.95
P034022090PB*	**34.00**		34.00	22.00	9.00	34.00		22.00		10.00		5.95
P035020100PB*	**35.00**		35.00	20.00	10.00	35.00		20.00		11.00		5.97
P035025060PB*	**35.00**		35.00	25.00	6.00	35.00		25.00		7.00		11.17
P035025065PB*	**35.00**		35.00	25.00	6.50	35.00		25.00		7.50		5.34
P035025070PB*	**35.00**		35.00	25.00	7.00	35.00		25.00		8.00		5.34
P035025073PB*	**35.00**		35.00	25.00	7.30	35.00		25.00		8.00		8.74
P035025080PB*	**35.00**		35.00	25.00	8.00	35.00		25.00		9.00		5.72
P035025100PB*	**35.00**		35.00	25.00	10.00	35.00		25.00		11.00		7.42
P035027050PB*	**35.00**		35.00	27.00	5.00	35.00		27.00		6.00		6.29
P035027100PB*	**35.00**		35.00	27.00	10.00	35.00		27.00		11.00		5.84
P036024060PB*	**36.00**		36.00	24.00	6.00	36.00		24.00		7.00		5.59
P036026070PB*	**36.00**		36.00	26.00	7.00	36.00		26.00		8.00		4.54
P036028070PB*	**36.00**		36.00	28.00	7.00	36.00		28.00		8.00		5.59
P037021118PB*	**37.00**		37.00	21.00	11.80	37.00		21.00		13.00		9.36
P037021120PB*	**37.00**		37.00	21.00	12.00	37.00		21.00		13.00		6.61
P038025100PB*	**38.00**		38.00	25.00	10.00	38.00		25.00		11.00		8.23
P038028070PB*	**38.00**		38.00	28.00	7.00	38.00		28.00		8.00		5.59
P038029070PB*	**38.00**		38.00	29.00	7.00	38.00		29.00		8.00		8.23
P038031047PB*	**38.00**		38.00	31.00	4.70	38.00		31.00	+ 0.00 - 0.10	5.20		6.76
P038031052PB*	**38.00**		38.00	31.00	5.20	38.00		31.00		6.00		11.83
P038032060PB*	**38.00**		38.00	32.00	6.00	38.00		32.00		7.00		8.23
P039032050PB*	**39.00**		39.00	32.00	5.00	39.00		32.00		6.00		5.08
P040025090PB*	**40.00**		40.00	25.00	9.00	40.00		25.00	+ 0.00 - 0.08	10.00		8.23
P040025100PB*	**40.00**		40.00	25.00	10.00	40.00		25.00		11.00		7.05
P040027080PB*	**40.00**		40.00	27.00	8.00	40.00		27.00		9.00		8.23
P040027100PB*	**40.00**		40.00	27.00	10.00	40.00		27.00		11.00		8.23
P040028090PB*	**40.00**		40.00	28.00	9.00	40.00		28.00		10.00		5.97
P040028100PB*	**40.00**		40.00	28.00	10.00	40.00		28.00		11.00		5.97
P040030050PB*	**40.00**		40.00	30.00	5.00	40.00		30.00		6.00		5.97
P040030060PB	**40.00**		40.00	30.00	6.00	40.00		30.00		7.00		5.97
P040030070PB*	**40.00**		40.00	30.00	7.00	40.00		30.00		8.00		5.97
P040030073PB	**40.00**		40.00	30.00	7.30	40.00		30.00		8.00		7.96
P040030080PB*	**40.00**		40.00	30.00	8.00	40.00		30.00		9.00		8.23
P040030100PB*	**40.00**		40.00	30.00	10.00	40.00		30.00		11.00		7.05
P040032032PB*	**40.00**		40.00	32.00	3.25	40.00		32.00	+ 0.00 - 0.10	3.75		5.84
P040032055PB*	**40.00**		40.00	32.00	5.50	40.00		32.00		6.50		5.97
P040032080PB*	**40.00**		40.00	32.00	8.00	40.00		32.00		9.00		7.05
P040033080PB*	**40.00**		40.00	33.00	8.00	40.00		33.00		9.00		7.05
P042032100PB*	**42.00**		42.00	32.00	10.00	42.00		32.00		11.00		7.05
P042034040PB*	**42.00**		42.00	34.50	4.00	42.00		34.50		4.70		7.27
P042035050PB*	**42.00**		42.00	35.00	5.00	42.00		35.00		5.70		8.30
P043025090PB*	**43.00**		43.00	25.00	9.00	43.00		25.00	+ 0.00 - 0.08	10.00		7.57
P043030100PB*	**43.00**		43.00	30.00	10.00	43.00		30.00		11.00		8.23
P043035090PB*	**43.00**		43.00	35.00	9.00	43.00		35.00	+0.00/-0.10	10.00		7.24

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P043038038PB*	**43.00**	+ 0.08 - 0.00	43.00	38.00	3.80	43.00	+ 0.08 - 0.00	38.00	+0.00/-0.10	4.30	+ 0.30 - 0.00	4.57
P044020110PB*	**44.00**		44.00	20.00	11.00	44.00		20.00	+ 0.00 - 0.08	12.00		9.48
P045030090PB*	**45.00**		45.00	30.00	9.00	45.00		30.00		10.00		12.34
P045030100PB*	**45.00**		45.00	30.00	10.00	45.00		30.00		11.00		7.49
P045032100PB*	**45.00**		45.00	32.00	10.00	45.00		32.00	+ 0.00 - 0.10	11.00		8.23
P045035060PB	**45.00**		45.00	35.00	6.00	45.00		35.00		7.00		7.24
P045035070PB*	**45.00**		45.00	35.00	7.00	45.00		35.00		8.00		6.32
P045035073PB	**45.00**		45.00	35.00	7.30	45.00		35.00		8.00		10.56
P045035080PB*	**45.00**		45.00	35.00	8.00	45.00		35.00		9.00		8.38
P045037070PB*	**45.00**		45.00	37.00	7.00	45.00		37.00		8.00		7.24
P045038060PB*	**45.00**		45.00	38.00	6.00	45.00		38.00		7.00		7.24
P050030120PB*	**50.00**		50.00	30.00	12.00	50.00		30.00	+0.00/-0.10	13.00		9.48
P050032100PB*	**50.00**		50.00	32.00	10.00	50.00		32.00	+ 0.00 - 0.10	11.00		7.21
P050034120PB*	**50.00**		50.00	34.00	12.00	50.00		34.00		13.00		9.36
P050035090PB	**50.00**		50.00	35.00	9.00	50.00		35.00		10.00		14.05
P050035100PB*	**50.00**		50.00	35.00	10.00	50.00		35.00		11.00		9.48
P050035120PB*	**50.00**		50.00	35.00	12.00	50.00		35.00		13.00		9.19
P050036100PB*	**50.00**		50.00	36.00	10.00	50.00		36.00		11.00		7.83
P050038060PB*	**50.00**		50.00	38.00	6.00	50.00		38.00		7.00		7.24
P050038070PB*	**50.00**		50.00	38.00	7.00	50.00		38.00		8.00		5.90
P050040050PB*	**50.00**		50.00	40.00	5.00	50.00		40.00		6.00		7.24
P050040060PB	**50.00**		50.00	40.00	6.00	50.00		40.00		7.00		10.22
P050040070PB*	**50.00**		50.00	40.00	7.00	50.00		40.00		8.00		7.24
P050040078PB	**50.00**		50.00	40.00	7.80	50.00		40.00		8.80		12.16
P050040080PB*	**50.00**		50.00	40.00	8.00	50.00		40.00		9.00		9.36
P050040100PB*	**50.00**		50.00	40.00	10.00	50.00		40.00		11.00		8.96
P050042035PB*	**50.00**		50.00	42.00	3.50	50.00		42.00		4.00		8.96
P050042050PB*	**50.00**		50.00	42.00	5.00	50.00		42.00		6.00		8.81
P050042053PB*	**50.00**		50.00	42.00	5.30	50.00		42.00		6.00		8.96
P050042073PB*	**50.00**		50.00	42.00	7.30	50.00		42.00		8.00		8.96
P050042080PB*	**50.00**		50.00	42.00	8.00	50.00		42.00		9.00		8.96
P050042100PB	**50.00**		50.00	42.00	10.00	50.00		42.00		11.00		7.24
P052042050PB*	**52.00**		52.00	42.00	5.00	52.00		42.00		6.00		7.24
P055040090PB*	**55.00**		55.00	40.00	9.00	55.00		40.00		10.00		9.36
P055040100PB*	**55.00**		55.00	40.00	10.00	55.00		40.00		11.00		9.48
P055041100PB*	**55.00**		55.00	41.00	10.00	55.00		41.00		11.00		11.54
P055045060PB*	**55.00**		55.00	45.00	6.00	55.00		45.00		7.00		11.75
P055045070PB	**55.00**		55.00	45.00	7.00	55.00		45.00		8.00		8.13
P055045073PB*	**55.00**		55.00	45.00	7.30	55.00		45.00		8.00		12.16
P055045075PB*	**55.00**		55.00	45.00	7.50	55.00		45.00		8.50		8.13
P055045100PB*	**55.00**		55.00	45.00	10.00	55.00		45.00		11.00		8.13
P055047055PB*	**55.00**		55.00	47.00	5.50	55.00		47.00		6.30		9.25
P055047057PB*	**55.00**		55.00	47.00	5.70	55.00		47.00		6.30		9.48
P056040120PB*	**56.00**		56.00	40.00	12.00	56.00		40.00		13.00		11.54
P056041100PB*	**56.00**		56.00	41.00	10.00	56.00		41.00		11.00		11.54
P056045070PB*	**56.00**		56.00	45.00	7.00	56.00		45.00		8.00		8.96

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PB series - AU 92A

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P056046060PB*	**56.00**	+ 0.08 - 0.00	56.00	46.00	6.00	56.00	+ 0.08 - 0.00	46.00	+ 0.00 - 0.07	7.00	+ 0.30 - 0.00	8.96
P056046070PB*	**56.00**		56.00	46.00	7.00	56.00		46.00		8.00		7.88
P058048060PB*	**58.00**		58.00	48.00	6.00	58.00		48.00		7.00		9.84
P060040090PB*	**60.00**		60.00	40.00	9.00	60.00		40.00		10.00		10.55
P060040120PB*	**60.00**		60.00	40.00	12.00	60.00		40.00		13.00		10.05
P060040135PB*	**60.00**		60.00	40.00	13.50	60.00		40.00		14.50		10.05
P060044120PB*	**60.00**		60.00	44.00	12.00	60.00		44.00		13.00		9.02
P060045100PB*	**60.00**		60.00	45.00	10.00	60.00		45.00		11.00		9.41
P060050050PB*	**60.00**		60.00	50.00	5.00	60.00		50.00		5.50		9.77
P060050060PB	**60.00**		60.00	50.00	6.00	60.00		50.00		7.00		11.78
P060050070PB*	**60.00**		60.00	50.00	7.00	60.00		50.00		8.00		8.77
P060050073PB*	**60.00**		60.00	50.00	7.30	60.00		50.00		8.30		8.77
P060050100PB*	**60.00**		60.00	50.00	10.00	60.00		50.00		11.00		9.02
P060052080PB*	**60.00**		60.00	52.00	8.00	60.00		52.00		9.00		9.77
P062052070PB*	**62.00**		62.00	52.00	7.00	62.00		52.00		8.00		8.89
P063043120PB*	**63.00**		63.00	43.00	12.00	63.00		43.00		13.00		13.61
P063045100PB*	**63.00**		63.00	45.00	10.00	63.00		45.00		11.00		11.12
P063047120PB*	**63.00**		63.00	47.00	12.00	63.00		47.00		13.00		11.54
P063048090PB	**63.00**		63.00	48.00	9.00	63.00		48.00		10.00		17.29
P063048100PB	**63.00**		63.00	48.00	10.00	63.00		48.00		11.00		9.87
P063048114PB*	**63.00**		63.00	48.00	11.40	63.00		48.00		12.50		10.82
P063048120PB*	**63.00**		63.00	48.00	12.00	63.00		48.00		13.00		10.05
P063050090PB*	**63.00**		63.00	50.00	9.00	63.00		50.00		10.00		9.65
P063053042PB*	**63.00**		63.00	53.00	4.25	63.00		53.00		4.75		8.89
P063053060PB	**63.00**		63.00	53.00	6.00	63.00		53.00		7.00		8.89
P063053073PB	**63.00**		63.00	53.00	7.30	63.00		53.00		8.00		10.46
P063053080PB*	**63.00**		63.00	53.00	8.00	63.00		53.00		9.00		11.54
P063053118PB*	**63.00**		63.00	53.00	11.80	63.00		53.00		13.00		8.79
P063053120PB*	**63.00**		63.00	53.00	12.00	63.00		53.00		13.00		10.58
P063055057PB*	**63.00**		63.00	55.00	5.70	63.00		55.00	+ 0.00 - 0.08	6.30		10.58
P065045120PB*	**65.00**		65.00	45.00	12.00	65.00		45.00		13.00		10.58
P065045135PB*	**65.00**		65.00	45.00	13.50	65.00		45.00		14.50		10.58
P065050090PB*	**65.00**		65.00	50.00	9.00	65.00		50.00		10.00		12.35
P065050100PB*	**65.00**		65.00	50.00	10.00	65.00		50.00		11.00		10.58
P065050115PB*	**65.00**		65.00	50.00	11.50	65.00		50.00		12.50		10.58
P065055060PB*	**65.00**		65.00	55.00	6.00	65.00		55.00		7.00		18.55
P065055070PB*	**65.00**		65.00	55.00	7.00	65.00		55.00		8.00		9.27
P065055080PB*	**65.00**		65.00	55.00	8.00	65.00		55.00		9.00		12.35
P065055100PB*	**65.00**		65.00	55.00	10.00	65.00		55.00		11.00		10.58
P065055135PB*	**65.00**		65.00	55.00	13.50	65.00		55.00		14.50		10.58
P065057073PB*	**65.00**		65.00	57.00	7.30	65.00		57.00		8.00		11.10
P066050120PB*	**66.00**		66.00	50.00	12.00	66.00		50.00		13.00		12.35
P066056060PB*	**66.00**		66.00	56.00	6.00	66.00		56.00		7.00		10.57
P068048100PB*	**68.00**		68.00	48.00	10.00	68.00		48.00		11.00		11.10
P069053120PB*	**69.00**		69.00	53.00	12.00	69.00		53.00		13.00		12.35
P070050120PB*	**70.00**		70.00	50.00	12.00	70.00		50.00		13.00		15.77

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P070050135PB*	**70.00**	+ 0.08 - 0.00	70.00	50.00	13.50	70.00	+ 0.08 - 0.00	50.00	+.000 -.250	14.50	+.250 -.000	11.10
P070050140PB*	**70.00**		70.00	50.00	14.00	70.00		50.00		15.00		9.91
P070050150PB*	**70.00**		70.00	50.00	15.00	70.00		50.00		16.00		11.10
P070055090PB*	**70.00**		70.00	55.00	9.00	70.00		55.00		10.00		18.05
P070055100PB	**70.00**		70.00	55.00	10.00	70.00		55.00		11.00		11.57
P070055120PB*	**70.00**		70.00	55.00	12.00	70.00		55.00		13.00		10.58
P070060060PB	**70.00**		70.00	60.00	6.00	70.00		60.00		7.00		15.38
P070060070PB*	**70.00**		70.00	60.00	7.00	70.00		60.00		8.00		9.92
P070060073PB*	**70.00**		70.00	60.00	7.30	70.00		60.00		8.00		10.58
P070060080PB*	**70.00**		70.00	60.00	8.00	70.00		60.00		9.00		13.72
P070060081PB*	**70.00**		70.00	60.00	8.10	70.00		60.00		9.00		21.28
P070060100PB*	**70.00**		70.00	60.00	10.00	70.00		60.00		11.00		9.53
P070060120PB*	**70.00**		70.00	60.00	12.00	70.00		60.00		13.00		10.58
P070060135PB*	**70.00**		70.00	60.00	13.50	70.00		60.00		14.50		11.39
P070062053PB*	**70.00**		70.00	62.00	5.30	70.00		62.00		6.00		11.39
P070062080PB*	**70.00**		70.00	62.00	8.00	70.00		62.00		9.00		9.40
P071055120PB*	**71.00**		71.00	55.00	12.00	71.00		55.00		13.00		13.72
P071056100PB*	**71.00**		71.00	56.00	10.00	71.00		56.00		11.00		13.72
P071061060PB	**71.00**		71.00	61.00	6.00	71.00		61.00		7.00		19.47
P071061080PB*	**71.00**		71.00	61.00	8.00	71.00		61.00		9.00		13.72
P072058120PB*	**72.00**		72.00	58.00	12.00	72.00		58.00		13.00		11.39
P075050140PB*	**75.00**		75.00	50.00	14.00	75.00		50.00		15.00		11.96
P075055120PB	**75.00**		75.00	55.00	12.00	75.00		55.00		13.00		20.62
P075055135PB*	**75.00**		75.00	55.00	13.50	75.00		55.00	+.000 -.290	14.50		11.96
P075060090PB*	**75.00**		75.00	60.00	9.00	75.00		60.00		10.00		13.72
P075060100PB*	**75.00**		75.00	60.00	10.00	75.00		60.00		11.00		20.62
P075063085PB*	**75.00**		75.00	63.00	8.50	75.00		63.00		9.50		11.18
P075065050PB*	**75.00**		75.00	65.00	5.00	75.00		65.00		5.50		10.86
P075065060PB	**75.00**		75.00	65.00	6.00	75.00		65.00		7.00		17.74
P075065070PB*	**75.00**		75.00	65.00	7.00	75.00		65.00		8.00		10.86
P075065075PB*	**75.00**		75.00	65.00	7.50	75.00		65.00		8.50		9.65
P075065080PB*	**75.00**		75.00	65.00	8.00	75.00		65.00		9.00		13.72
P075065100PB*	**75.00**		75.00	65.00	10.00	75.00		65.00		11.00		10.86
P075065135PB*	**75.00**		75.00	65.00	13.50	75.00		65.00		14.50		11.39
P075067088PB*	**75.00**		75.00	67.00	8.80	75.00		67.00		9.70		9.93
P076060120PB*	**76.00**		76.00	60.00	12.00	76.00		60.00		13.00		13.72
P077067060PB*	**77.00**	+ 0.08 - 0.00	77.00	67.00	6.00	77.00	+ 0.08 - 0.00	67.00		7.00		12.26
P080047160PB*	**80.00**		80.00	47.00	16.00	80.00		47.00		17.00		15.09
P080060090PB*	**80.00**		80.00	60.00	9.00	80.00		60.00		10.00		14.52
P080060120PB	**80.00**		80.00	60.00	12.00	80.00		60.00		13.00		17.92
P080065090PB	**80.00**		80.00	65.00	9.00	80.00		65.00		10.00		19.13
P080065100PB	**80.00**		80.00	65.00	10.00	80.00		65.00		11.00		19.74
P080065114PB	**80.00**		80.00	65.00	11.40	80.00		65.00		12.50		20.49
P080065120PB*	**80.00**		80.00	65.00	12.00	80.00		65.00		13.00		14.63
P080068085PB*	**80.00**		80.00	68.00	8.50	80.00		68.00		9.50		9.91
P080070060PB	**80.00**		80.00	70.00	6.00	80.00		70.00		7.00		15.85

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



PB series - AU 92A

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P080070068PB	**80.00**	+ 0.08 - 0.00	80.00	70.00	6.80	80.00	+ 0.08 - 0.00	70.00	+ 0.00 - 0.07	7.50	+ 0.30 - 0.00	13.24
P080070070PB*	**80.00**		80.00	70.00	7.00	80.00		70.00		8.00		7.21
P080070073PB*	**80.00**		80.00	70.00	7.30	80.00		70.00		8.00		11.39
P080070080PB*	**80.00**		80.00	70.00	8.00	80.00		70.00		9.00		19.47
P080070120PB*	**80.00**		80.00	70.00	12.00	80.00		70.00		13.00		9.91
P080071065PB*	**80.00**		80.00	71.00	6.50	80.00		71.00		7.50		9.15
P080072120PB*	**80.00**		80.00	72.00	12.00	80.00		72.00		13.00		9.91
P082070080PB*	**82.00**		82.00	70.00	8.00	82.00		70.00		9.00		9.53
P085065090PB*	**85.00**		85.00	65.00	9.00	85.00		65.00		10.00		15.31
P085065120PB*	**85.00**		85.00	65.00	12.00	85.00		65.00		13.00		22.11
P085065135PB*	**85.00**		85.00	65.00	13.50	85.00		65.00		14.50		11.68
P085070090PB*	**85.00**		85.00	70.00	9.00	85.00		70.00		10.00		24.76
P085070100PB*	**85.00**		85.00	70.00	10.00	85.00		70.00		11.00		22.11
P085075060PB	**85.00**		85.00	75.00	6.00	85.00		75.00		7.00		24.76
P085075080PB*	**85.00**		85.00	75.00	8.00	85.00		75.00		9.00		16.46
P085075081PB*	**85.00**		85.00	75.00	8.10	85.00		75.00		9.00		22.47
P085075100PB*	**85.00**		85.00	75.00	10.00	85.00		75.00		11.00		11.96
P085075120PB*	**85.00**		85.00	75.00	12.00	85.00		75.00		13.00		11.96
P085070100PB-1*	**85.70**		85.70	70.70	10.30	85.70		70.70		11.40		14.26
P090070120PB	**90.00**		90.00	70.00	12.00	90.00		70.00		13.00		19.96
P090070135PB*	**90.00**		90.00	70.00	13.50	90.00		70.00		14.50		11.96
P090070150PB*	**90.00**		90.00	70.00	15.00	90.00		70.00		16.00		19.20
P090075090PB	**90.00**		90.00	75.00	9.00	90.00		75.00		10.00		21.69
P090075100PB*	**90.00**		90.00	75.00	10.00	90.00		75.00		11.00		14.18
P090075120PB*	**90.00**		90.00	75.00	12.00	90.00		75.00		13.00		11.96
P090080050PB*	**90.00**		90.00	80.00	5.00	90.00		80.00		5.50		11.02
P090080060PB	**90.00**		90.00	80.00	6.00	90.00		80.00		7.00		14.06
P090080080PB*	**90.00**		90.00	80.00	8.00	90.00		80.00		9.00		19.20
P090080100PB*	**90.00**		90.00	80.00	10.00	90.00		80.00		11.00		11.96
P090080130PB*	**90.00**		90.00	80.00	13.00	90.00		80.00	+ 0.00 - 0.08	14.00		12.82
P095075120PB*	**95.00**		95.00	75.00	12.00	95.00		75.00		13.00		23.08
P095075135PB*	**95.00**		95.00	75.00	13.50	95.00		75.00		14.50		12.48
P095075150PB*	**95.00**		95.00	75.00	15.00	95.00		75.00		16.00		23.08
P095080060PB*	**95.00**		95.00	80.00	6.00	95.00		80.00		7.00		23.08
P095080090PB*	**95.00**		95.00	80.00	9.00	95.00		80.00		10.00		23.08
P095080100PB*	**95.00**		95.00	80.00	10.00	95.00		80.00		11.00		27.83
P095085060PB*	**95.00**		95.00	85.00	6.00	95.00		85.00		7.00		23.08
P095085070PB*	**95.00**		95.00	85.00	7.00	95.00		85.00		8.00		12.48
P095085073PB*	**95.00**		95.00	85.00	7.30	95.00		85.00		8.00		12.48
P095085085PB*	**95.00**		95.00	85.00	8.50	95.00		85.00		9.50		11.90
P095085135PB*	**95.00**		95.00	85.00	13.50	95.00		85.00		14.50		12.48
P095087073PB*	**95.00**		95.00	87.00	7.30	95.00		87.00		8.00		12.48
P100075180PB*	**100.00**		100.00	75.00	18.00	100.00		75.00		19.00		25.91
P100075190PB*	**100.00**		100.00	75.00	19.00	100.00		75.00		20.00		38.34
P100080073PB*	**100.00**		100.00	80.00	7.30	100.00		80.00		8.00		12.48
P100080100PB*	**100.00**		100.00	80.00	10.00	100.00		80.00		11.00		12.48

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Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P100080120PB	**100.00**	+ 0.08 - 0.00	100.00	80.00	12.00	100.00	+ 0.08 - 0.00	80.00	+ 0.00 - 0.07	13.00	+ 0.30 - 0.00	22.00
P100080130PB*	**100.00**		100.00	80.00	13.00	100.00		80.00		14.00		23.48
P100080135PB*	**100.00**		100.00	80.00	13.50	100.00		80.00		14.50		12.77
P100080150PB*	**100.00**		100.00	80.00	15.00	100.00		80.00		16.00		23.08
P100085090PB	**100.00**		100.00	85.00	9.00	100.00		85.00		10.00		11.05
P100085100PB*	**100.00**		100.00	85.00	10.00	100.00		85.00		11.00		30.95
P100085114PB	**100.00**		100.00	85.00	11.40	100.00		85.00		12.40		11.05
P100085120PB*	**100.00**		100.00	85.00	12.00	100.00		85.00		13.00		12.70
P100086120PB*	**100.00**		100.00	86.00	12.00	100.00		86.00		13.00		12.77
P100088085PB*	**100.00**		100.00	88.00	8.50	100.00		88.00		9.50		10.54
P100090065PB*	**100.00**		100.00	90.00	6.50	100.00		90.00		7.50		10.04
P100090068PB*	**100.00**		100.00	90.00	6.80	100.00		90.00		7.50		17.37
P100090072PB*	**100.00**		100.00	90.00	7.20	100.00		90.00		8.20		10.04
P100090085PB*	**100.00**		100.00	90.00	8.50	100.00		90.00		9.50		10.67
P100090105PB*	**100.00**		100.00	90.00	10.50	100.00		90.00		11.50		11.81
P105085118PB*	**105.00**		105.00	85.00	11.80	105.00		85.00		13.00		30.25
P105085150PB*	**105.00**		105.00	85.00	15.00	105.00		85.00		16.00		33.75
P105090090PB*	**105.00**		105.00	90.00	9.00	105.00		90.00		10.00		34.67
P105090120PB*	**105.00**		105.00	90.00	12.00	105.00		90.00		13.00		12.77
P105095120PB*	**105.00**		105.00	95.00	12.00	105.00		95.00		13.00		15.09
P105097081PB*	**105.00**		105.00	97.00	8.10	105.00		97.00		9.00		16.04
P110085180PB*	**110.00**		110.00	85.00	18.00	110.00		85.00		19.00		26.87
P110085190PB*	**110.00**		110.00	85.00	19.00	110.00		85.00		20.00		47.41
P110090120PB	**110.00**		110.00	90.00	12.00	110.00		90.00		13.00		14.10
P110090150PB*	**110.00**		110.00	90.00	15.00	110.00		90.00		16.00		26.87
P110095090PB*	**110.00**		110.00	95.00	9.00	110.00		95.00		10.00		40.43
P110095100PB*	**110.00**		110.00	95.00	10.00	110.00		95.00		11.00		11.56
P110095120PB*	**110.00**		110.00	95.00	12.00	110.00		95.00		13.00		13.58
P110100070PB*	**110.00**		110.00	100.00	7.00	110.00		100.00	+ 0.00 - 0.08	8.00		12.56
P110100080PB*	**110.00**		110.00	100.00	8.00	110.00		100.00		9.00		37.38
P110100135PB*	**110.00**		110.00	100.00	13.50	110.00		100.00		14.50		14.10
P112092120PB*	**112.00**		112.00	92.00	12.00	112.00		92.00		13.00		26.87
P112092150PB*	**112.00**		112.00	92.00	15.00	112.00		92.00		16.00		26.87
P112097090PB*	**112.00**		112.00	97.00	9.00	112.00		97.00		10.00		26.87
P112097100PB*	**112.00**		112.00	97.00	10.00	112.00		97.00		11.00		26.87
P112098085PB*	**112.00**		112.00	98.00	8.50	112.00		98.00		9.50		20.58
P115095150PB*	**115.00**		115.00	95.00	15.00	115.00		95.00		16.00		27.35
P115100060PB*	**115.00**		115.00	100.00	6.00	115.00		100.00		7.00		12.70
P115100090PB*	**115.00**		115.00	100.00	9.00	115.00		100.00		10.00		40.43
P115100105PB*	**115.00**		115.00	100.00	10.50	115.00		100.00		11.50		13.66
P115105135PB*	**115.00**		115.00	105.00	13.50	115.00		105.00		14.50		13.66
P120095120PB*	**120.00**		120.00	95.00	12.00	120.00		95.00		13.00		15.48
P120100120PB	**120.00**		120.00	100.00	12.00	120.00		100.00		13.00		29.72
P120100135PB*	**120.00**		120.00	100.00	13.50	120.00		100.00		14.50		15.20
P120100150PB*	**120.00**		120.00	100.00	15.00	120.00		100.00		16.00		30.18
P120103160PB*	**120.00**		120.00	103.00	16.00	120.00		103.00		17.00		15.87

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



PB series - AU 92A

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P120105090PB	**120.00**	+ 0.08 - 0.00	120.00	105.00	9.00	120.00	+ 0.08 - 0.00	105.00	+ 0.00 - 0.07	10.00	+ 0.30 - 0.00	41.06
P120105100PB*	**120.00**		120.00	105.00	10.00	120.00		105.00		11.00		30.18
P120106085PB*	**120.00**		120.00	106.00	8.50	120.00		106.00		9.50		45.39
P120110120PB*	**120.00**		120.00	110.00	12.00	120.00		110.00		13.00		13.72
P125100130PB*	**125.00**		125.00	100.00	13.00	125.00		100.00		14.00		36.75
P125100150PB*	**125.00**		125.00	100.00	15.00	125.00		100.00		16.00		44.12
P125105120PB	**125.00**		125.00	105.00	12.00	125.00		105.00		13.00		15.24
P125105145PB*	**125.00**		125.00	105.00	14.50	125.00		105.00		16.00		41.45
P125105150PB*	**125.00**		125.00	105.00	15.00	125.00		105.00		16.00		17.40
P125105160PB*	**125.00**		125.00	105.00	16.00	125.00		105.00		17.00		30.18
P125110090PB*	**125.00**		125.00	110.00	9.00	125.00		110.00		10.00		45.39
P125110100PB*	**125.00**		125.00	110.00	10.00	125.00		110.00		11.00		14.10
P125112090PB	**125.00**		125.00	112.00	9.00	125.00		112.00		10.00		40.53
P125115070PB*	**125.00**		125.00	115.00	7.00	125.00		115.00		8.00		15.22
P125115150PB*	**125.00**		125.00	115.00	15.00	125.00		115.00		16.00		16.82
P127113100PB*	**127.00**		127.00	113.00	10.00	127.00		113.00		11.00		16.26
P130100120PB*	**130.00**		130.00	100.00	12.00	130.00		100.00		13.00		15.87
P130110120PB*	**130.00**		130.00	110.00	12.00	130.00		110.00		13.00		17.78
P130110150PB*	**130.00**		130.00	110.00	15.00	130.00		110.00		16.00		17.91
P130110160PB*	**130.00**		130.00	110.00	16.00	130.00		110.00		17.00		35.58
P130115090PB*	**130.00**		130.00	115.00	9.00	130.00		115.00		10.00		53.40
P130115100PB*	**130.00**		130.00	115.00	10.00	130.00		115.00		11.00		35.58
P130120135PB*	**130.00**		130.00	120.00	13.50	130.00		120.00		14.50		15.64
P132112150PB*	**132.00**		132.00	112.00	15.00	132.00		112.00		16.00		35.58
P135115120PB*	**135.00**		135.00	115.00	12.00	135.00		115.00		13.00		33.63
P135115130PB*	**135.00**		135.00	115.00	13.00	135.00		115.00		14.00		35.58
P140114120PB*	**140.00**		140.00	114.00	12.00	140.00		114.00		13.00		20.93
P140115150PB*	**140.00**		140.00	115.00	15.00	140.00		115.00		16.00		50.59
P140120120PB	**140.00**		140.00	120.00	12.00	140.00		120.00	+ 0.00 - 0.08	13.00		20.87
P140120140PB/DK102*	**140.00**		140.00	120.00	14.00	140.00		120.00		15.00		#N/A
P140120150PB*	**140.00**		140.00	120.00	15.00	140.00		120.00		16.00		21.47
P140120160PB*	**140.00**		140.00	120.00	16.00	140.00		120.00		17.00		35.58
P140125090PB	**140.00**		140.00	125.00	9.00	140.00		125.00		10.00		20.33
P140125100PB*	**140.00**		140.00	125.00	10.00	140.00		125.00		11.00		35.58
P140125150PB*	**140.00**		140.00	125.00	15.00	140.00		125.00		16.00		21.47
P145130090PB*	**145.00**		145.00	130.00	9.00	145.00		130.00		10.00		29.93
P145130100PB*	**145.00**		145.00	130.00	10.00	145.00		130.00		11.00		19.18
P150125120PB*	**150.00**		150.00	125.00	12.00	150.00		125.00		13.00		46.05
P150125150PB*	**150.00**		150.00	125.00	15.00	150.00		125.00		16.00		55.69
P150125190PB*	**150.00**		150.00	125.00	19.00	150.00		125.00		20.00		57.81
P150125200PB*	**150.00**		150.00	125.00	20.00	150.00		125.00		21.00		38.41
P150130120PB*	**150.00**		150.00	130.00	12.00	150.00		130.00		13.00		57.81
P150130145PB*	**150.00**		150.00	130.00	14.50	150.00		130.00		16.00		49.48
P150130150PB*	**150.00**		150.00	130.00	15.00	150.00		130.00		16.00		47.86
P150130160PB*	**150.00**		150.00	130.00	16.00	150.00		130.00		17.00		38.41
P150135080PB*	**150.00**		150.00	135.00	8.00	150.00		135.00		9.00		19.18

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P150135090PB	**150.00**	+ 0.08 - 0.00	150.00	135.00	9.00	150.00	+ 0.08 - 0.00	135.00	+ 0.00 - 0.07	10.00	+ 0.30 - 0.00	57.81
P150135100PB*	**150.00**		150.00	135.00	10.00	150.00		135.00		11.00		38.41
P150136085PB*	**150.00**		150.00	136.00	8.50	150.00		136.00		9.50		29.93
P150140070PB*	**150.00**		150.00	140.00	7.00	150.00		140.00		8.00		21.37
P150140136PB*	**150.00**		150.00	140.00	13.60	150.00		140.00		15.00		38.23
P152130150PB*	**152.00**		152.00	130.00	15.00	152.00		130.00		16.00		25.66
P155140090PB*	**155.00**		155.00	140.00	9.00	155.00		140.00		10.00		57.81
P157132200PB*	**157.00**		157.00	132.00	20.00	157.00		132.00		21.00		71.49
P160135160PB*	**160.00**		160.00	135.00	16.00	160.00		135.00		17.00		71.49
P160135190PB*	**160.00**		160.00	135.00	19.00	160.00		135.00		20.00		107.52
P160135200PB*	**160.00**		160.00	135.00	20.00	160.00		135.00		21.00		71.49
P160140120PB	**160.00**		160.00	140.00	12.00	160.00		140.00		13.00		107.52
P160140140PB*	**160.00**		160.00	140.00	14.00	160.00		140.00		15.00		22.36
P160140150PB*	**160.00**		160.00	140.00	15.00	160.00		140.00		16.00		52.29
P160140160PB*	**160.00**		160.00	140.00	16.00	160.00		140.00		17.00		71.49
P160140182PB*	**160.00**		160.00	140.00	18.20	160.00		140.00		20.00		52.42
P160145090PB	**160.00**		160.00	145.00	9.00	160.00		145.00		10.00		22.36
P160145100PB*	**160.00**		160.00	145.00	10.00	160.00		145.00		11.00		71.49
P160145140PB*	**160.00**		160.00	145.00	14.00	160.00		145.00		15.00		22.36
P160148065PB*	**160.00**		160.00	148.00	6.50	160.00		148.00		7.50		22.92
P165140190PB*	**165.00**		165.00	140.00	19.00	165.00		140.00		20.00		111.40
P165140200PB*	**165.00**		165.00	140.00	20.00	165.00		140.00		21.00		74.15
P165145090PB*	**165.00**		165.00	145.00	9.00	165.00		145.00		10.00		74.15
P170145190PB*	**170.00**		170.00	145.00	19.00	170.00		145.00		20.00		27.06
P170145200PB*	**170.00**		170.00	145.00	20.00	170.00		145.00		21.00		97.71
P170148150PB*	**170.00**		170.00	148.00	15.00	170.00		148.00		16.00		26.55
P170150120PB*	**170.00**		170.00	150.00	12.00	170.00		150.00		13.00		60.74
P170150150PB*	**170.00**		170.00	150.00	15.00	170.00		150.00		16.00		26.22
P170150160PB*	**170.00**		170.00	150.00	16.00	170.00		150.00	+ 0.00 - 0.08	17.00		97.71
P170155090PB	**170.00**		170.00	155.00	9.00	170.00		155.00		10.00		40.57
P170155100PB*	**170.00**		170.00	155.00	10.00	170.00		155.00		11.00		97.71
P174165065PB*	**174.80**		174.80	165.20	6.50	174.80		165.20		7.50		26.88
P175150200PB*	**175.00**		175.00	150.00	20.00	175.00		150.00		21.00		97.71
P175155120PB*	**175.00**		175.00	155.00	12.00	175.00		155.00		13.00		97.71
P175155140PB*	**175.00**		175.00	155.00	14.00	175.00		155.00		15.00		26.04
P175160090PB*	**175.00**		175.00	160.00	9.00	175.00		160.00		10.00		55.58
P180155160PB	**180.00**		180.00	155.00	16.00	180.00		155.00		17.00		97.71
P180155190PB*	**180.00**		180.00	155.00	19.00	180.00		155.00		20.00		107.82
P180155200PB*	**180.00**		180.00	155.00	20.00	180.00		155.00		21.00		97.71
P180160090PB*	**180.00**		180.00	160.00	9.00	180.00		160.00		10.00		26.04
P180160120PB*	**180.00**		180.00	160.00	12.00	180.00		160.00		13.00		31.38
P180160135PB*	**180.00**		180.00	160.00	13.50	180.00		160.00		14.50		28.87
P180160140PB*	**180.00**		180.00	160.00	14.00	180.00		160.00		15.00		30.49
P180160150PB*	**180.00**		180.00	160.00	15.00	180.00		160.00		16.00		59.66
P180160160PB*	**180.00**		180.00	160.00	16.00	180.00		160.00		17.00		104.33
P180160200PB*	**180.00**		180.00	160.00	20.00	180.00		160.00		21.00		109.82

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PB series - AU 92A

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions			Housing Dimensions						$
			D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P180165090PB*	**180.00**	+ 0.08 - 0.00	180.00	165.00	9.00	180.00	+ 0.08 - 0.00	165.00	+ 0.00 - 0.07	10.00	+ 0.30 - 0.00	27.31
P180165100PB*	**180.00**		180.00	165.00	10.00	180.00		165.00		11.00		104.33
P180165120PB*	**180.00**		180.00	165.00	12.00	180.00		165.00		13.00		109.82
P180165160PB*	**180.00**		180.00	165.00	16.00	180.00		165.00		17.00		116.67
P180165190PB*	**180.00**		180.00	165.00	19.00	180.00		165.00		20.00		104.33
P180166155PB*	**180.00**		180.00	166.00	15.50	180.00		166.00		16.50		28.87
P180170065PB*	**180.00**		180.00	170.00	6.50	180.00		170.00		7.50		62.05
P185160190PB*	**185.00**		185.00	160.00	19.00	185.00		160.00		20.00		129.82
P190165150PB*	**190.00**		190.00	165.00	15.00	190.00		165.00		16.00		116.67
P190165190PB*	**190.00**		190.00	165.00	19.00	190.00		165.00		20.00		110.47
P190165200PB*	**190.00**		190.00	165.00	20.00	190.00		165.00		21.00		116.67
P190170120PB*	**190.00**		190.00	170.00	12.00	190.00		170.00		13.00		80.67
P190170150PB*	**190.00**		190.00	170.00	15.00	190.00		170.00		16.00		33.27
P190170160PB*	**190.00**		190.00	170.00	16.00	190.00		170.00		17.00		116.67
P190175090PB*	**190.00**		190.00	175.00	9.00	190.00		175.00		10.00		51.21
P190175100PB*	**190.00**		190.00	175.00	10.00	190.00		175.00		11.00		116.67
P200170180PB*	**200.00**		200.00	170.00	18.00	200.00		170.00		19.00		51.45
P200170190PB*	**200.00**		200.00	170.00	19.00	200.00		170.00		20.00		117.39
P200175160PB*	**200.00**		200.00	175.00	16.00	200.00		175.00		17.00		42.68
P200175190PB*	**200.00**		200.00	175.00	19.00	200.00		175.00		20.00		121.62
P200175200PB*	**200.00**		200.00	175.00	20.00	200.00		175.00		21.00		130.39
P200180120PB*	**200.00**		200.00	180.00	12.00	200.00		180.00		13.00		86.46
P200180140PB*	**200.00**		200.00	180.00	14.00	200.00		180.00		15.00		42.05
P200180145PB*	**200.00**		200.00	180.00	14.50	200.00		180.00		16.00		65.60
P200180150PB*	**200.00**		200.00	180.00	15.00	200.00		180.00		16.00		69.75
P200180160PB*	**200.00**		200.00	180.00	16.00	200.00		180.00		17.00		130.39
P203184150PB*	**203.00**		203.00	184.00	15.00	203.00		184.00		16.00		47.00
P205180150PB*	**205.00**		205.00	180.00	15.00	205.00		180.00		16.00		133.86
P205180190PB*	**205.00**		205.00	180.00	19.00	205.00		180.00	+ 0.00 - 0.08	20.00		201.18
P205180200PB*	**205.00**		205.00	180.00	20.00	205.00		180.00		21.00		133.86
P210185160PB*	**210.00**		210.00	185.00	16.00	210.00		185.00		17.00		133.86
P210185200PB*	**210.00**		210.00	185.00	20.00	210.00		185.00		21.00		133.86
P210190120PB*	**210.00**		210.00	190.00	12.00	210.00		190.00		13.00		91.62
P210190160PB*	**210.00**		210.00	190.00	16.00	210.00		190.00		17.00		133.86
P215190160PB*	**215.00**		215.00	190.00	16.00	215.00		190.00		17.00		125.22
P220195160PB*	**220.00**		220.00	195.00	16.00	220.00		195.00		17.00		59.07
P220195200PB*	**220.00**		220.00	195.00	20.00	220.00		195.00		21.00		142.74
P220200120PB*	**220.00**		220.00	200.00	12.00	220.00		200.00		13.00		80.51
P220200150PB*	**220.00**		220.00	200.00	15.00	220.00		200.00		16.00		67.58
P220200160PB*	**220.00**		220.00	200.00	16.00	220.00		200.00		17.00		142.74
P224204120PB*	**224.00**		224.00	204.00	12.00	224.00		204.00		13.00		204.87
P224204160PB*	**224.00**		224.00	204.00	16.00	224.00		204.00		17.00		142.74
P225200160PB*	**225.00**		225.00	200.00	16.00	225.00		200.00		17.00		142.74
P225200190PB*	**225.00**		225.00	200.00	19.00	225.00		200.00		20.00		142.74
P225200160PB/DK104R*	**225.00**		225.00	200.00	16.00	225.00		200.00		17.00		#N/A
P225200200PB*	**225.00**		225.00	200.00	20.00	225.00		200.00		21.00		142.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P225205120PB*	**225.00**	+ 0.08 - 0.00	225.00	205.00	12.00	225.00	+ 0.08 - 0.00	205.00	+ 0.00 - 0.07	13.00	+ 0.30 - 0.00	204.87
P225205160PB*	**225.00**		225.00	205.00	16.00	225.00		205.00		17.00		142.74
P230205160PB*	**230.00**		230.00	205.00	16.00	230.00		205.00		17.00		142.74
P230205190PB*	**230.00**		230.00	205.00	19.00	230.00		205.00		20.00		142.74
P230205200PB*	**230.00**		230.00	205.00	20.00	230.00		205.00		21.00		142.74
P230210120PB*	**230.00**		230.00	210.00	12.00	230.00		210.00		13.00		206.31
P230210160PB*	**230.00**		230.00	210.00	16.00	230.00		210.00		17.00		142.74
P235210200PB*	**235.00**		235.00	210.00	20.00	235.00		210.00		21.00		159.28
P240215160PB*	**240.00**		240.00	215.00	16.00	240.00		215.00		17.00		159.28
P240215190PB*	**240.00**		240.00	215.00	19.00	240.00		215.00		20.00		159.28
P240215200PB*	**240.00**		240.00	215.00	20.00	240.00		215.00		21.00		159.28
P240220120PB*	**240.00**		240.00	220.00	12.00	240.00		220.00		13.00		206.31
P240220160PB*	**240.00**		240.00	220.00	16.00	240.00		220.00		17.00		159.28
P250225160PB*	**250.00**		250.00	225.00	16.00	250.00		225.00		17.00		172.99
P250225190PB/30K	**250.00**		250.00	225.00	19.00	250.00		225.00		20.00		327.03
P250225200PB*	**250.00**		250.00	225.00	20.00	250.00		225.00		21.00		363.25
P250230120PB*	**250.00**		250.00	230.00	12.00	250.00		230.00		13.00		206.31
P250230140PB*	**250.00**		250.00	230.00	14.00	250.00		230.00		15.00		76.09
P250230150PB*	**250.00**		250.00	230.00	15.00	250.00		230.00		16.00		76.09
P250230160PB*	**250.00**		250.00	230.00	16.00	250.00		230.00		17.00		363.25
P250238140PB*	**250.00**		250.00	238.00	14.00	250.00		238.00		15.00		76.09
P255230180PB*	**255.00**		255.00	230.00	18.00	255.00		230.00		19.00		133.55
P255230190PB*	**255.00**		255.00	230.00	19.00	255.00		230.00		20.00		523.74
P260235160PB*	**260.00**		260.00	235.00	16.00	260.00		235.00		17.00		226.12
P260235190PB*	**260.00**		260.00	235.00	19.00	260.00		235.00		20.00		#N/A
P260240120PB*	**260.00**		260.00	240.00	12.00	260.00		240.00		13.00		160.89
P260240160PB*	**260.00**		260.00	240.00	16.00	260.00		240.00		17.00		80.41
P270245160PB*	**270.00**		270.00	245.00	16.00	270.00		245.00		17.00		442.33
P270245190PB*	**270.00**		270.00	245.00	19.00	270.00		245.00	+ 0.00 - 0.08	20.00		442.33
P270250120PB*	**270.00**		270.00	250.00	12.00	270.00		250.00		13.00		239.36
P270250160PB*	**270.00**		270.00	250.00	16.00	270.00		250.00		17.00		442.33
P275250120PB*	**275.00**		275.00	250.00	12.00	275.00		250.00		13.00		157.00
P275250190PB*	**275.00**		275.00	250.00	19.00	275.00		250.00		20.00		449.35
P275250200PB*	**275.00**		275.00	250.00	20.00	275.00		250.00		21.00		499.13
P280245190PB*	**280.00**		280.00	245.00	19.00	280.00		245.00		20.00		92.73
P280250180PB*	**280.00**		280.00	250.00	18.00	280.00		250.00		19.00		91.46
P280250190PB*	**280.00**		280.00	250.00	19.00	280.00		250.00		20.00		523.90
P280255160PB*	**280.00**		280.00	255.00	16.00	280.00		255.00		17.00		160.89
P280255190PB	**280.00**		280.00	255.00	19.00	280.00		255.00		20.00		266.02
P290260190PB*	**290.00**		290.00	260.00	19.00	290.00		260.00		20.00		547.79
P290265160PB*	**290.00**		290.00	265.00	16.00	290.00		265.00		17.00		287.63
P290265190PB*	**290.00**		290.00	265.00	19.00	290.00		265.00		20.00		547.79
P290265240PB*	**290.00**		290.00	265.00	24.00	290.00		265.00		25.00		537.46
P297265250PB*	**297.00**		297.00	265.00	25.00	297.00		265.00		25.00		597.17
P300270120PB*	**300.00**		300.00	270.00	12.00	300.00		270.00		13.00		84.73
P300270190PB	**300.00**		300.00	270.00	19.00	300.00		270.00		20.00		305.19

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

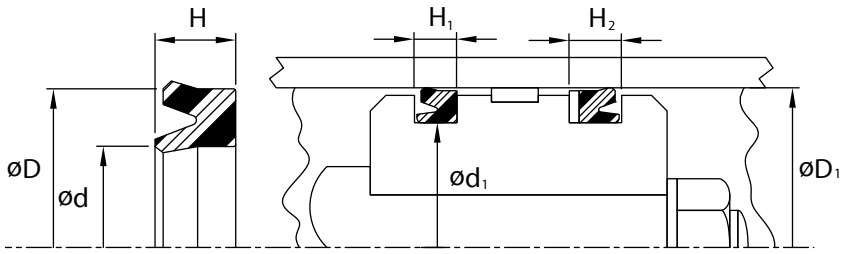
PB series - AU 92A

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P300270240PB*	**300.00**	+ 0.08 - 0.00	300.00	270.00	24.00	300.00	+ 0.08 - 0.00	270.00	+ 0.00 - 0.07	25.00	+ 0.30 - 0.00	413.93
P300270250PB*	**300.00**		300.00	270.00	25.00	300.00		270.00		26.00		597.17
P300275160PB*	**300.00**		300.00	275.00	16.00	300.00		275.00		17.00		160.89
P300275190PB*	**300.00**		300.00	275.00	19.00	300.00		275.00		20.00		597.17
P300288140PB*	**300.00**		300.00	288.00	14.00	300.00		288.00		15.00		93.50
P305280160PB*	**305.00**		305.00	280.00	16.00	305.00		280.00		17.00		926.69
P310278180PB*	**310.00**		310.00	278.00	18.00	310.00		278.00		19.00		141.91
P312280240PB*	**312.00**		312.00	280.00	24.00	312.00		280.00		25.00		595.39
P320290190PB*	**320.00**		320.00	290.00	19.00	320.00		290.00		20.00		1092.10
P320290200PB*	**320.00**		320.00	290.00	20.00	320.00		290.00		21.00		144.06
P320290240PB*	**320.00**		320.00	290.00	24.00	320.00		290.00		25.00		248.00
P320295160PB*	**320.00**		320.00	295.00	16.00	320.00		295.00		17.00		949.61
P320295180PB*	**320.00**		320.00	295.00	18.00	320.00		295.00		19.00		137.07
P325295200PB*	**325.00**		325.00	295.00	20.00	325.00		295.00		21.00		1100.98
P330300190PB*	**330.00**		330.00	300.00	19.00	330.00		300.00		20.00		1109.77
P332300240PB*	**332.00**		332.00	300.00	24.00	332.00		300.00		25.00		725.14
P350330200PB/30K*	**350.00**		350.00	330.00	20.00	350.00		330.00		21.00		#N/A
P380345200PB*	**380.00**		380.00	345.00	20.00	380.00		345.00		21.00		155.23
P385355220PB*	**385.00**		385.00	355.00	22.00	385.00		355.00		23.00		371.52
P390345200PB*	**390.00**		390.00	345.00	20.00	390.00		345.00		21.00		1066.93
P420390190PB*	**420.00**		420.00	390.00	19.00	420.00		390.00		20.00		1103.48
P450420220PB*	**450.00**		450.00	420.00	22.00	450.00		420.00		23.00		183.44
P750720200PB*	**750.00**		750.00	720.00	20.00	750.00		720.00		21.00		4675.18

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile	-22°F to +176°F (-30°C to +80°C)	≤2300 psi (≤159 bar)	<1.6 ft/s (0.5 m/s)



N.B.: H2 = H1 + B.UP RING THICKNESS

The **PB/N-style** is a single-acting piston seal with an asymmetrical designed manufactured in homogeneous rubber material. It is particularly well suited for pneumatic or low pressure (1500 psi/100bar) hydraulic applications. Two **PB/N-style** seals can be used, back to back, in separate grooves to provide bi-directional sealing.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P006002045PB/N*	**6.00**	+ 0.08 - 0.00	6.00	2.50	4.50	6.00	+ 0.08 - 0.00	2.50	+ 0.00 - 0.03	5.00	+ 0.20 - 0.00	5.83
P007004020PB/N*	**7.50**		7.50	4.00	2.00	7.50		4.00		2.50		5.07
P009004035PB/N*	**9.00**		9.00	4.00	3.50	9.00		4.00		4.00		5.57
P009004060PB/N*	**9.00**		9.00	4.00	6.00	9.00		4.00		6.50		5.83
P012004040PB/N*	**12.00**		12.00	4.50	4.00	12.00		4.50		4.50		5.83
P012005070PB/N*	**12.00**		12.00	5.00	7.00	12.00		5.00		7.50		5.83
P012006040PB/N	**12.00**		12.00	6.00	4.00	12.00		6.00		4.50		5.57
P012007025PB/N*	**12.00**		12.00	7.00	2.55	12.00		7.00		3.05		5.57
P014006060PB/N*	**14.00**		14.00	6.00	6.00	14.00		6.00		6.50		5.83
P014006080PB/N*	**14.00**		14.00	6.00	8.00	14.00		6.00		8.50		5.83
P014008040PB/N*	**14.00**		14.00	8.00	4.00	14.00		8.00		4.50		11.59
P014008045PB/N*	**14.00**		14.00	8.00	4.50	14.00		8.00		5.00		5.83
P015009080PB/N*	**15.00**		15.00	9.00	8.00	15.00		9.00		8.50		5.83
P016006100PB/N*	**16.00**		16.00	6.00	10.00	16.00		6.00		11.00		6.08
P016008055PB/N*	**16.00**		16.00	8.00	5.50	16.00		8.00		6.00		5.83
P016009055PB/N*	**16.00**		16.00	9.00	5.50	16.00		9.00		6.00		5.83
P016010025PB/N*	**16.00**		16.00	10.00	2.55	16.00		10.00		3.05		5.83
P016010040PB/N*	**16.00**		16.00	10.00	4.00	16.00		10.00		4.50		5.83
P016010055PB/N*	**16.00**		16.00	10.00	5.50	16.00		10.00		6.00		5.83
P016010060PB/N*	**16.00**		16.00	10.00	6.00	16.00		10.00		6.50		8.67
P016010080PB/N*	**16.00**		16.00	10.00	8.00	16.00		10.00		8.50		6.33
P018010055PB/N*	**18.00**		18.00	10.00	5.50	18.00		10.00		6.00		7.32
P020012055PB/N*	**20.00**		20.00	12.00	5.50	20.00		12.00	+0.00/-0.04	6.00		7.34

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PB/N series - NBR 85A

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P020014027PB/N*	**20.00**	+ 0.08 - 0.00	20.00	14.00	2.70	20.00	+ 0.08 - 0.00	14.00	+ 0.00 - 0.04	3.20	+ 0.20 - 0.00	7.09
P020014042PB/N*	**20.00**		20.00	14.00	4.20	20.00		14.00		4.70		7.09
P020014055PB/N*	**20.00**		20.00	14.00	5.50	20.00		14.00		6.00		7.34
P022010080PB/N*	**22.00**		22.00	10.00	8.00	22.00		10.00		8.50		7.60
P022014055PB/N*	**22.00**		22.00	14.00	5.50	22.00		14.00		6.00		19.92
P022016040PB/N*	**22.00**		22.00	16.00	4.00	22.00		16.00		4.50		7.34
P022016055PB/N*	**22.00**		22.00	16.00	5.50	22.00		16.00		6.00		7.34
P025015050PB/N*	**25.00**		25.00	15.00	5.00	25.00		15.00		5.50		7.34
P025017055PB/N*	**25.00**		25.00	17.00	5.50	25.00		17.00		6.00		7.60
P025018050PB/N*	**25.00**		25.00	18.00	5.00	25.00		18.00		5.50		7.34
P025019030PB/N*	**25.00**		25.00	19.00	3.00	25.00		19.00		3.50		7.34
P025019060PB/N*	**25.00**		25.00	19.00	6.00	25.00		19.00		6.50		7.60
P026018055PB/N*	**26.00**		26.00	18.00	5.50	26.00		18.00		6.00		7.60
P028016090PB/N*	**28.00**		28.00	16.00	9.00	28.00		16.00		10.00		7.85
P028018070PB/N*	**28.00**		28.00	18.00	7.00	28.00		18.00	+0.00/-0.05	7.50		7.60
P028020055PB/N*	**28.00**		28.00	20.00	5.50	28.00		20.00	+0.00/-0.04	6.00		8.87
P030015102PB/N*	**30.00**		30.00	15.00	10.20	30.00		15.00	+ 0.00 - 0.05	11.20		8.86
P030020070PB/N*	**30.00**		30.00	20.00	7.00	30.00		20.00		7.50		8.36
P030022060PB/N*	**30.00**		30.00	22.00	6.00	30.00		22.00		6.50		8.36
P032022050PB/N*	**32.00**		32.00	22.00	5.00	32.00		22.00		5.50		8.36
P032022070PB/N*	**32.00**		32.00	22.00	7.00	32.00		22.00		7.50		8.36
P032024055PB/N*	**32.00**		32.00	24.00	5.50	32.00		24.00		6.00		8.36
P035020100PB/N*	**35.00**		35.00	20.00	10.00	35.00		20.00		11.00		10.13
P035025065PB/N*	**35.00**		35.00	25.00	6.50	35.00		25.00		7.00		9.88
P035025070PB/N*	**35.00**		35.00	25.00	7.00	35.00		25.00		7.50		9.88
P035025080PB/N*	**35.00**		35.00	25.00	8.00	35.00		25.00		8.50		9.88
P035027100PB/N*	**35.00**		35.00	27.00	10.00	35.00		27.00		11.00		9.88
P036024060PB/N*	**36.00**		36.00	24.00	6.00	36.00		24.00		6.50		9.88
P036026070PB/N*	**36.00**		36.00	26.00	7.00	36.00		26.00		7.50		20.24
P036028070PB/N*	**36.00**		36.00	28.00	7.00	36.00		28.00		7.50		9.88
P038028070PB/N*	**38.00**		38.00	28.00	7.00	38.00		28.00		7.50		10.13
P039032050PB/N*	**39.00**		39.00	32.00	5.00	39.00		32.00		5.50		9.62
P040028090PB/N	**40.00**		40.00	28.00	9.00	40.00		28.00		10.00		10.13
P040028100PB/N*	**40.00**		40.00	28.00	10.00	40.00		28.00	+ 0.00 - 0.06	11.00		10.13
P040030050PB/N*	**40.00**		40.00	30.00	5.00	40.00		30.00		5.50		9.88
P040030060PB/N*	**40.00**		40.00	30.00	6.00	40.00		30.00		6.50		9.88
P040030070PB/N	**40.00**		40.00	30.00	7.00	40.00		30.00		7.50		9.88
P040032032PB/N*	**40.00**		40.00	32.00	3.25	40.00		32.00		3.75		9.62
P040032055PB/N	**40.00**		40.00	32.00	5.50	40.00		32.00		6.00		9.88
P043035090PB/N*	**43.00**		43.00	35.00	9.00	43.00		35.00		10.00		9.88
P043038038PB/N*	**43.00**		43.00	38.00	3.80	43.00		38.00		4.30		9.62
P045035060PB/N*	**45.00**		45.00	35.00	6.00	45.00		35.00		6.50		10.89
P045035070PB/N*	**45.00**		45.00	35.00	7.00	45.00		35.00		7.50		12.65
P045037070PB/N*	**45.00**		45.00	37.00	7.00	45.00		37.00		7.50		10.89
P045038060PB/N*	**45.00**		45.00	38.00	6.00	45.00		38.00		6.50		10.89
P050038060PB/N	**50.00**		50.00	38.00	6.00	50.00		38.00		6.50		12.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P050040050PB/N*	**50.00**	+ 0.08 - 0.00	50.00	40.00	5.00	50.00	+ 0.08 - 0.00	40.00	+ 0.00 - 0.06	5.50	+ 0.20 - 0.00	12.41
P050040070PB/N	**50.00**		50.00	40.00	7.00	50.00		40.00		7.50		12.41
P050042100PB/N*	**50.00**		50.00	42.00	10.00	50.00		42.00		11.00		12.41
P052042050PB/N*	**52.00**		52.00	42.00	5.00	52.00		42.00		5.50		12.41
P055045070PB/N*	**55.00**		55.00	45.00	7.00	55.00		45.00		7.50		12.66
P055045075PB/N*	**55.00**		55.00	45.00	7.50	55.00		45.00		8.00		12.92
P055045100PB/N*	**55.00**		55.00	45.00	10.00	55.00		45.00		11.00		12.92
P056046070PB/N*	**56.00**		56.00	46.00	7.00	56.00		46.00		7.50		12.66
P060044120PB/N	**60.00**		60.00	44.00	12.00	60.00		44.00		13.00		14.94
P060050070PB/N	**60.00**		60.00	50.00	7.00	60.00		50.00		7.50		14.94
P060050073PB/N*	**60.00**		60.00	50.00	7.30	60.00		50.00		7.80		14.94
P060050100PB/N*	**60.00**		60.00	50.00	10.00	60.00		50.00		11.00		15.45
P062052070PB/N	**62.00**		62.00	52.00	7.00	62.00		52.00	+ 0.00 - 0.07	7.50		14.94
P063050100PB/N*	**63.00**		63.00	50.00	10.00	63.00		50.00		11.00		15.20
P063053042PB/N*	**63.00**		63.00	53.00	4.25	63.00		53.00		4.75		13.42
P063053070PB/N	**63.00**		63.00	53.00	7.00	63.00		53.00		7.50		13.68
P065053060PB/N*	**65.00**		65.00	53.00	6.00	65.00		53.00		6.50		13.68
P065055070PB/N*	**65.00**		65.00	55.00	7.00	65.00		55.00		7.50		13.93
P070050140PB/N*	**70.00**		70.00	50.00	14.00	70.00		50.00	+0.00/-0.06	15.00		17.22
P070058085PB/N*	**70.00**		70.00	58.00	8.50	70.00		58.00	+ 0.00 - 0.07	9.00		15.20
P070060070PB/N*	**70.00**		70.00	60.00	7.00	70.00		60.00		7.50		14.69
P070060100PB/N*	**70.00**		70.00	60.00	10.00	70.00		60.00		11.00		15.20
P070062080PB/N*	**70.00**		70.00	62.00	8.00	70.00		62.00		8.50		14.69
P075063085PB/N*	**75.00**		75.00	63.00	8.50	75.00		63.00		9.00		17.73
P075065075PB/N*	**75.00**		75.00	65.00	7.50	75.00		65.00		8.00		14.69
P080064080PB/N*	**80.00**	+ 0.10 - 0.00	80.00	64.00	8.00	80.00	+ 0.10 - 0.00	64.00		8.50		17.22
P080065100PB/N*	**80.00**		80.00	65.00	10.00	80.00		65.00		11.00		17.73
P080068085PB/N	**80.00**		80.00	68.00	8.50	80.00		68.00		9.00		16.97
P080072120PB/N*	**80.00**		80.00	72.00	12.00	80.00		72.00		13.00		16.97
P085073085PB/N*	**85.00**		85.00	73.00	8.50	85.00		73.00		9.00		18.24
P090078085PB/N*	**90.00**		90.00	78.00	8.50	90.00		78.00		9.00		19.50
P100084080PB/N*	**100.00**		100.00	84.00	8.00	100.00		84.00	+ 0.00 - 0.08	8.50		21.27
P100085090PB/N*	**100.00**		100.00	85.00	9.00	100.00		85.00		10.00		21.27
P100085120PB/N*	**100.00**		100.00	85.00	12.00	100.00		85.00		13.00		22.03
P100088085PB/N	**100.00**		100.00	88.00	8.50	100.00		88.00		9.00		20.77
P100090043PB/N*	**100.00**		100.00	90.00	4.30	100.00		90.00		4.80		20.26
P100090065PB/N*	**100.00**		100.00	90.00	6.50	100.00		90.00		7.00		20.51
P100090072PB/N*	**100.00**		100.00	90.00	7.20	100.00		90.00		7.70		20.51
P100090085PB/N*	**100.00**		100.00	90.00	8.50	100.00		90.00		9.00		20.51
P105094080PB/N*	**105.00**		105.00	94.00	8.00	105.00		94.00		8.50		22.03
P110090150PB/N*	**110.00**		110.00	90.00	15.00	110.00		90.00		16.00		24.06
P110095100PB/N*	**110.00**		110.00	95.00	10.00	110.00		95.00		11.00		22.03
P120105100PB/N*	**120.00**		120.00	105.00	10.00	120.00		105.00		11.00		29.38
P125105120PB/N*	**125.00**		125.00	105.00	12.00	125.00		105.00		13.00		27.10
P125105150PB/N*	**125.00**		125.00	105.00	15.00	125.00		105.00		16.00		28.37
P125105160PB/N*	**125.00**		125.00	105.00	16.00	125.00		105.00		17.00		28.37

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PB/N series - NBR 85A

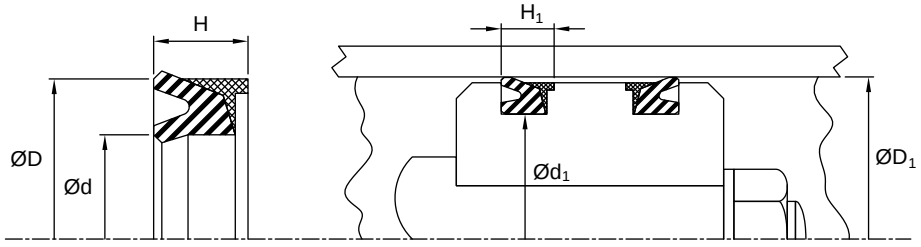
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P125110100PB/N	**125.00**	+ 0.10 - 0.00	125.00	110.00	10.00	125.00	+ 0.10 - 0.00	110.00	+ 0.00 - 0.08	11.00	+ 0.20 - 0.00	25.33
P125115072PB/N*	**125.00**		125.00	115.00	7.20	125.00		115.00		7.70		28.37
P130110120PB/N*	**130.00**		130.00	110.00	12.00	130.00		110.00		13.00		31.40
P130115100PB/N*	**130.00**		130.00	115.00	10.00	130.00		115.00		11.00		86.04
P140120140PB/N*	**140.00**		140.00	120.00	14.00	140.00		120.00	+0.00/-0.10	15.00		28.28
P140120160PB/N*	**140.00**		140.00	120.00	16.00	140.00		120.00	+0.00/-0.08	17.00		33.94
P140125100PB/N*	**140.00**		140.00	125.00	10.00	140.00		125.00	+ 0.00 - 0.10	11.00		37.15
P145130100PB/N*	**145.00**		145.00	130.00	10.00	145.00		130.00		11.00		37.15
P150135080PB/N*	**150.00**		150.00	135.00	8.00	150.00		135.00		8.50		33.14
P160140082PB/N*	**160.00**		160.00	140.00	8.20	160.00		140.00		8.50		32.54
P160140140PB/N*	**160.00**		160.00	140.00	14.00	160.00		140.00		15.00		37.15
P160145100PB/N	**160.00**		160.00	145.00	10.00	160.00		145.00		11.00		35.88
P160145140PB/N*	**160.00**		160.00	145.00	14.00	160.00		145.00		15.00		35.67
P170148150PB/N*	**170.00**		170.00	148.00	15.00	170.00		148.00		16.00		44.11
P175155140PB/N*	**175.00**	+ 0.13 - 0.00	175.00	155.00	14.00	175.00	+ 0.13 - 0.00	155.00		15.00		43.06
P180160090PB/N*	**180.00**		180.00	160.00	9.00	180.00		160.00		10.00		51.71
P180160140PB/N*	**180.00**		180.00	160.00	14.00	180.00		160.00		15.00		54.45
P190170140PB/N*	**190.00**		190.00	170.00	14.00	190.00		170.00		15.00		65.85
P200175160PB/N*	**200.00**		200.00	175.00	16.00	200.00		175.00	+ 0.00 - 0.11	17.00		69.86
P200180136PB/N*	**200.00**		200.00	180.00	13.60	200.00		180.00		14.60		66.27
P200180140PB/N	**200.00**		200.00	180.00	14.00	200.00		180.00	+0.00/-0.10	15.00		66.27
P250230140PB/N*	**250.00**		250.00	230.00	14.00	250.00		230.00	+ 0.00 - 0.11	15.00		94.34
P300270120PB/N*	**300.00**		300.00	270.00	12.00	300.00		270.00		13.00		124.10
P330310120PB/N*	**330.00**		330.00	310.00	12.00	330.00		310.00		13.00		158.29
P360330200PB/N*	**360.00**		360.00	330.00	20.00	360.00		330.00		21.00		219.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Nylon	-20°F to +220°F (-29°C to +104°C)	≤3000 psi (≤205 bar)	<1.6 ft/s (0.5 m/s)



The **PH-style** is a single-acting piston seals using a nitrile (NBR) sealing lip for excellent sealability mated to a fitted reinforced nylon anti-extrusion ring.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P045027121PH	**45.00**	+ 0.08 - 0.00	45.00	27.00	12.10	45.00	+ 0.08 - 0.00	27.00	+0.00/-0.08	12.50	+ 0.30 - 0.00	44.05
P050032121PH	**50.00**		50.00	32.00	12.10	50.00		32.00	+ 0.00 - 0.10	12.50		55.50
P055037121PH*	**55.00**		55.00	37.00	12.10	55.00		37.00		12.50		55.50
P060042121PH*	**60.00**		60.00	42.00	12.10	60.00		42.00		12.50		55.50
P060043121PH*	**60.00**		60.00	43.00	12.10	60.00		43.00		12.50		55.50
P065047121PH	**65.00**		65.00	47.00	12.10	65.00		47.00		12.50		55.50
P065050095PH*	**65.00**		65.00	50.00	9.50	65.00		50.00		9.90		55.50
P070048145PH	**70.00**		70.00	48.00	14.50	70.00		48.00		15.50		55.50
P080058145PH	**80.00**	+ 0.10 - 0.00	80.00	58.00	14.50	80.00		58.00	+ 0.00 - 0.12	15.50		55.50
P090068145PH	**90.00**		90.00	68.00	14.50	90.00		68.00		15.50		65.57
P100078145PH	**100.00**		100.00	78.00	14.50	100.00		78.00		15.50		65.57
P110088145PH	**110.00**		110.00	88.00	14.50	110.00		88.00	+ 0.00 - 0.14	15.50		73.35
P115093145PH*	**115.00**		115.00	93.00	14.50	115.00		93.00		15.50		73.35
P120098145PH*	**120.00**		120.00	98.00	14.50	120.00		98.00		15.50		76.10
P122098145PH*	**122.00**		122.00	98.00	14.50	122.00		98.00		15.50		78.20
P125103145PH	**125.00**		125.00	103.00	14.50	125.00		103.00		15.50		82.58
P130108145PH	**130.00**		130.00	108.00	14.50	130.00		108.00		15.50		82.58
P140118145PH*	**140.00**		140.00	118.00	14.50	140.00		118.00		15.50		95.21
P150128145PH*	**150.00**		150.00	128.00	14.50	150.00		128.00	+ 0.00 - 0.16	15.50		106.15
P160138145PH*	**160.00**		160.00	138.00	14.50	160.00		138.00		15.50		114.42
P170148145PH	**170.00**		170.00	148.00	14.50	170.00		148.00		15.50		123.56
P180158145PH	**180.00**	+ 0.13 - 0.00	180.00	158.00	14.50	180.00	+ 0.13 - 0.00	158.00		15.50		131.98
P190168145PH*	**190.00**		190.00	168.00	14.50	190.00		168.00		15.50		140.11

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

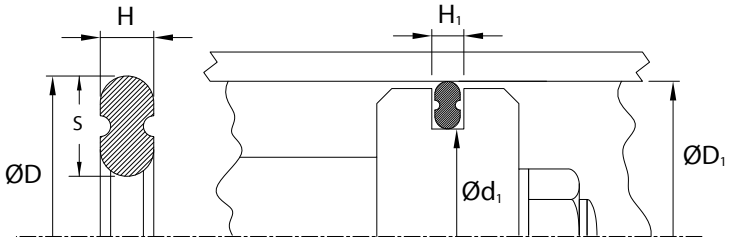
PH series - NBR/NYLON

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P200178145PH*	**200.00**	+ 0.13 - 0.00	200.00	178.00	14.50	200.00	+ 0.13 - 0.00	178.00	+ 0.00 - 0.18	15.50	+ 0.30 - 0.00	143.25
P225203145PH	**225.00**		225.00	203.00	14.50	225.00		203.00		15.50		255.66
P230208145PH*	**230.00**		230.00	208.00	14.50	230.00		208.00		15.50		322.87
P250225163PH*	**250.00**		250.00	225.00	16.30	250.00		225.00		17.50		504.24
P250228145PH*	**250.00**		250.00	228.00	14.50	250.00		228.00		15.50		749.06
P280250190PH*	**280.00**		280.00	250.00	19.00	280.00		250.00		20.00		O/R

PM - Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile	-20°F to +220°F (-29°C to +104°C)	≤174 psi (≤12 bar)	<3.3 ft/s (1 m/s)



The **PM-style** is a double-acting pneumatic piston seal designed for compact housings and short-stroke pneumatic cylinders or valves. Made from 70 durometer nitrile rubber, it offers superior low-pressure sealing with low friction and is easy to install.

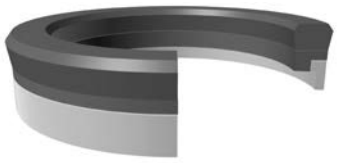
Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	Housing Dimensions d1	Tol.	H1	Tol.	$
P008004016PM*	**8.00**	+ 0.08 - 0.00	8.00	4.00	1.40	4.00	+ 0.08 - 0.10	1.60	+ 0.20 - 0.00	4.89
P010005018PM*	**10.00**		10.00	5.40	1.60	5.40		1.80		4.89
P012007018PM*	**12.00**		12.00	7.40	1.60	7.40		1.80		5.18
P016011018PM*	**16.00**		16.00	11.40	1.60	11.40		1.80		6.90
P018013018PM*	**18.00**		18.00	13.40	1.60	13.40		1.80		6.90
P020014024PM*	**20.00**		20.00	14.00	2.24	14.00		2.40		6.90
P025017032PM*	**25.00**		25.00	17.00	3.00	17.00		3.20		8.34
P027019032PM*	**27.00**		27.00	19.00	3.00	19.00		3.20		8.34
P032024032PM*	**32.00**		32.00	24.00	3.00	24.00		3.20		8.63
P040032032PM*	**40.00**		40.00	32.00	3.00	32.00		3.20		9.49
P050040040PM*	**50.00**		50.00	40.00	3.80	40.00		4.00		12.08
P060048040PM*	**60.00**		60.00	48.00	3.80	48.00		4.00		14.09
P063053040PM*	**63.00**		63.00	53.00	3.80	53.00		4.00		14.38

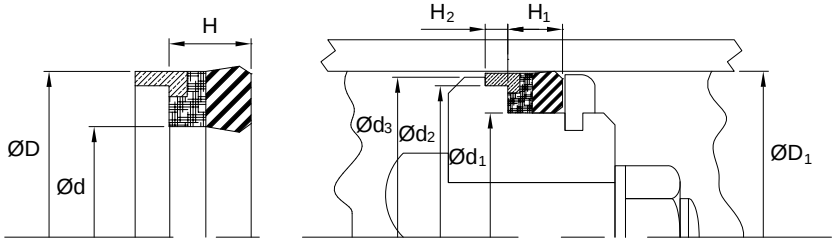
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	Housing Dimensions d1	Tol.	H1	Tol.	$
P080065060PM*	**80.00**	+ 0.10 - 0.00	80.00	65.00	5.60	65.00	+ 0.10 - 0.10	6.00	+ 0.20 - 0.00	16.10
P100085060PM*	**100.00**		100.00	85.00	5.60	85.00		6.00		19.84
P125110060PM*	**125.00**		125.00	110.00	5.60	110.00		6.00		22.60
P140125060PM*	**140.00**		140.00	125.00	5.60	125.00		6.00		24.00
P150135060PM*	**150.00**		150.00	135.00	5.60	135.00		6.00		42.84
P160145060PM*	**160.00**		160.00	145.00	5.60	145.00		6.00		54.05
P160140080PM*	**160.00**		160.00	140.00	7.60	140.00		8.00		54.05
P180160080PM*	**180.00**		180.00	160.00	7.60	160.00		8.00		79.06
P200180080PM*	**200.00**	+ 0.13 - 0.00	200.00	180.00	7.60	180.00		8.00		97.46
P250230080PM*	**250.00**		250.00	230.00	7.60	230.00		8.00		148.93
P300280080PM*	**300.00**		300.00	280.00	7.60	280.00		8.00		208.15

PR - Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Neo-Fabric/ Polyamide	-22°F to +212°F (-30°C to +100°C)	≤6000 psi (≤414 bar)	< 1.6 ft/s (0.5 m/s)



Single acting piston seal, suitable for medium duty application; Seal set consists of two elements:
a) acetal antiextrusion wear ring.
b) high specification NBR 80° shore and NBR impregnated cotton sealing element.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions d1	d2	P	H1	H2	$
P025012095PR*	**25.00**	+ 0.08 - 0.00	25.00	12.00	9.50	11.89/12.00	21.45/21.55	24.00/24.20	9.90/10.10	6.40/6.50	23.07
P040028090PR*	**40.00**		40.00	28.00	9.00	27.87/28.00	35.35/35.45	38.90/39.10	9.40/9.60	6.40/6.50	24.96
P045035085PR*	**45.00**		45.00	35.00	8.50	34.84/35.00	41.50/42.50	43.89/44.09	8.90/9.10	6.40/6.50	25.72
P050030140PR*	**50.00**		50.00	30.00	14.00	29.87/30.00	43.80/44.80	48.20/48.40	14.40/14.60	6.40/6.50	19.93
P050038094PR*	**50.00**		50.00	38.00	9.40	37.84/38.00	46.04/47.04	48.90/49.12	9.80/10.00	6.40/6.50	27.61

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PR series - NBR/NEOFAB/PA

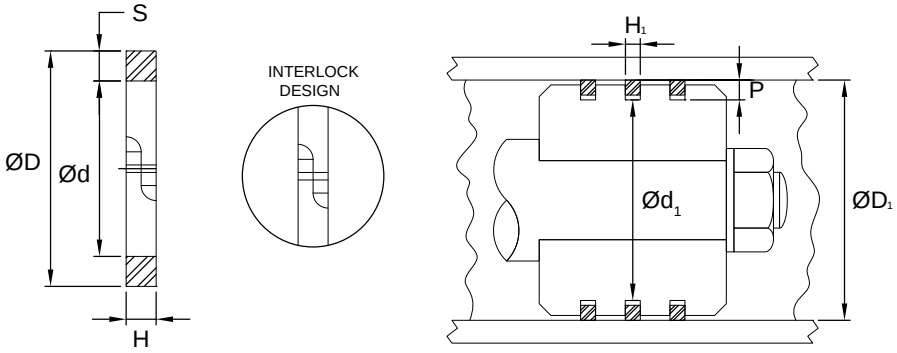
Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions					$
		Tol.	D	d	H	d1	d2	P	H1	H2	
P055040105PR*	**55.00**	+ 0.08 - 0.00	55.00	40.00	10.50	39.84/40.00	49.90/50.90	53.55/53.75	10.90/11.10	6.40/6.50	31.01
P058043105PR*	**58.00**		58.00	43.00	10.50	42.84/43.00	52.15/52.25	56.55/56.75	10.90/11.10	6.40/6.50	31.01
P060040140PR*	**60.00**		60.00	40.00	14.00	39.84/40.00	57.56/58.56	57.96/58.16	14.40/14.60	6.40/6.50	21.37
P060045105PR*	**60.00**		60.00	45.00	10.50	44.84/45.00	58.15/59.15	58.55/58.75	10.90/11.10	6.40/6.50	16.46
P065045140PR*	**65.00**		65.00	45.00	14.00	44.84/45.00	62.57/63.57	62.97/63.17	14.40/14.60	6.40/6.50	39.90
P065050100PR*	**65.00**		65.00	50.00	10.00	49.84/50.00	62.72/63.72	63.12/63.32	10.40/10.60	6.40/6.50	39.90
P065050105PR*	**65.00**		65.00	50.00	10.50	49.84/50.00	62.72/63.72	63.12/63.32	10.90/11.10	6.40/6.50	49.55
P070050140PR	**70.00**		70.00	50.00	14.00	49.84/50.00	63.80/73.80	67.95/68.15	14.40/14.60	6.40/6.50	21.59
P080060140PR	**80.00**		80.00	60.00	14.00	59.81/60.00	73.72/74.72	78.24/78.44	14.40/14.60	6.40/6.50	24.53
P080065110PR*	**80.00**		80.00	65.00	11.00	64.81/65.00	74.90/75.90	78.35/78.55	11.40/11.60	6.40/6.50	46.33
P085070120PR*	**85.00**		85.00	70.00	12.00	69.81/70.00	79.80/80.80	83.34/83.54	12.40/12.60	6.40/6.50	51.82
P090070140PR	**90.00**		90.00	70.00	14.00	69.81/70.00	83.70/84.70	88.20/88.40	14.40/14.60	6.40/6.50	30.10
P095075140PR	**95.00**		95.00	75.00	14.00	74.81/75.00	88.60/89.60	93.20/93.40	14.40/14.60	6.40/6.50	61.65
P100080140PR	**100.00**		100.00	80.00	14.00	79.81/80.00	93.70/94.70	98.20/98.40	14.40/14.60	6.40/6.50	32.56
P104085140PR*	**104.50**		104.50	85.00	14.00	84.78/85.00	98.30/99.30	102.37/102.57	14.40/14.60	6.40/6.50	66.57
P105085140PR	**105.00**		105.00	85.00	14.00	84.78/85.00	98.92/99.92	102.87/103.07	14.40/14.60	6.40/6.50	35.21
P110090125PR*	**110.00**		110.00	90.00	12.50	89.78/90.00	103.60/104.60	108.23/108.43	12.90/13.10	6.40/6.50	21.98
P115095140PR*	**115.00**		115.00	95.00	14.00	94.78/95.00	108.50/109.50	112.75/112.95	14.40/14.60	6.40/6.50	70.73
P120100125PR*	**120.00**		120.00	100.00	12.50	99.78/100.00	113.60/114.60	118.23/118.43	12.90/13.10	6.40/6.50	70.73
P125100140PR*	**125.00**		125.00	100.00	14.00	99.78/100.00	117.60/118.60	122.86/123.06	14.40/14.60	6.40/6.50	81.13
P125105120PR	**125.00**		125.00	105.00	12.00	104.78/105.00	118.80/119.80	123.21/123.41	12.40/12.60	6.40/6.50	81.13
P130110120PR*	**130.00**		130.00	110.00	12.00	109.78/110.00	122.74/123.74	127.86/128.06	12.40/12.60	6.40/6.50	81.13
P140120120PR*	**140.00**		140.00	120.00	12.00	119.84/120.00	132.62/133.62	137.89/138.09	12.40/12.60	6.40/6.50	83.14

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material
Cast Iron



These metallic piston rings are low wear, highly extrusion resistant seals used in hydraulic applications. They are bi-directional in use, and can pass open ports without clipping the joint tips.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

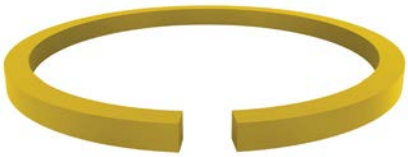
Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P040035032PZ*	**40.00**	+ 0.08 - 0.00				40.00	+ 0.08 - 0.00	35.00	+ 0.00 - 0.05	3.20	+ 0.13 - 0.00	39.82
P045039032PZ*	**45.00**					45.00		39.00		3.20		39.82
P050044032PZ*	**50.00**					50.00		44.00		3.20		39.82
P055049048PZ*	**55.00**					55.00		49.00		4.80		39.97
P060053048PZ*	**60.00**					60.00		53.00		4.80		39.97
P063056048PZ*	**63.00**					63.00		56.00		4.80		40.80
P065058048PZ*	**65.00**					65.00		58.00		4.80		40.80
P065058064PZ*	**65.00**					65.00		58.00		6.40		41.10
P070062048PZ*	**70.00**					70.00		62.00		4.80		40.80
P075066050PZ*	**75.00**					75.00		66.00		5.04		40.80
P075067048PZ*	**75.00**					75.00		67.00		4.80		40.80
P080072048PZ*	**80.00**	+ 0.10 - 0.00				80.00	+ 0.10 - 0.00	72.00		4.80		40.80
P080072064PZ*	**80.00**					80.00		72.00		6.40		41.10
P085077048PZ*	**85.00**					85.00		77.00		4.80		40.80
P090080035PZ*	**90.00**					90.00		80.00		3.54		41.02
P090081048PZ*	**90.00**					90.00		81.00		4.80		41.02
P090082040PZ	**90.00**					90.00		82.50		4.00		24.39
P095086048PZ*	**95.00**					95.00		86.00		4.80		41.02
P095087040PZ	**95.00**					95.00		87.10		4.00		29.29
P100090041PZ*	**100.00**					100.00		90.00		4.15		84.69
P100090064PZ*	**100.00**					100.00		90.00		6.40		41.77
P105095064PZ*	**105.00**					105.00		95.00		6.40		42.30
P105096040PZ*	**105.00**					105.00		96.20		4.00		29.89
P110099041PZ*	**110.00**					110.00		99.00		4.15		42.00
P110099064PZ*	**110.00**					110.00		99.00		6.40		42.30

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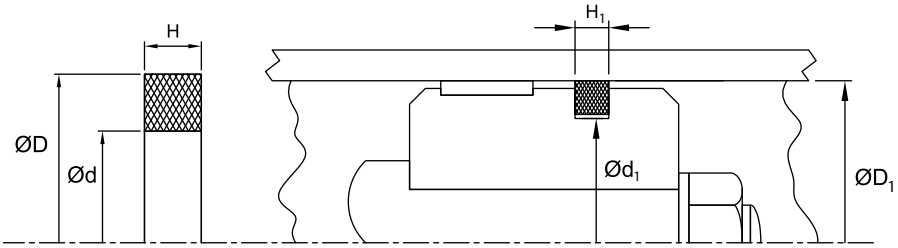
PZ series - CAST IRON

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P114103064PZ*	**114.00**	+ 0.10 - 0.00				114.00	+ 0.10 - 0.00	103.00	+ 0.00 - 0.05	6.40	+ 0.13 - 0.00	42.30
P115104032PZ*	**115.00**					115.00		104.00		3.20		41.32
P115104064PZ*	**115.00**					115.00		104.00		6.40		42.30
P115106040PZ	**115.00**					115.00		105.60		4.00		55.23
P120108035PZ*	**120.00**					120.00		108.00		3.54		42.52
P120109064PZ*	**120.00**					120.00		109.00		6.40		43.49
P120110040PZ	**120.00**					120.00		110.00		4.00		87.28
P125113064PZ	**125.00**					125.00		113.00		6.40		43.49
P125116040PZ	**125.00**					125.00		115.60		4.00		42.52
P130118064PZ*	**130.00**					130.00		118.00		6.40		50.37
P130119040PZ	**130.00**					130.00		119.20		4.00		89.20
P135122064PZ*	**135.00**					135.00		122.00		6.40		88.93
P135124040PZ	**135.00**					135.00		124.00		4.00		38.37
P140127064PZ*	**140.00**					140.00		127.00		6.40		88.93
P140129040PZ	**140.00**					140.00		128.60		4.00		66.20
P145132064PZ*	**145.00**					145.00		132.00		6.40		91.33
P150136050PZ*	**150.00**					150.00		136.00		5.04		91.33
P150137064PZ*	**150.00**					150.00		137.00		6.40		91.33
P155141079PZ*	**155.00**					155.00		141.00		7.95		93.20
P160146079PZ	**160.00**					160.00		146.00		7.95		93.20
P160147040PZ	**160.00**					160.00		146.90		4.00		53.01
P165151079PZ*	**165.00**					165.00		151.00		7.95		93.20
P170155079PZ*	**170.00**					170.00		155.00		7.95		94.62
P175160079PZ*	**175.00**	+ 0.13 - 0.00				175.00	+ 0.13 - 0.00	160.00		7.95		94.62
P180164060PZ*	**180.00**					180.00		164.00		6.08		97.99
P180164079PZ	**180.00**					180.00		164.00		7.95		104.05
P185169079PZ*	**185.00**					185.00		169.00		7.95		104.05
P185170040PZ	**185.00**					185.00		169.90		4.00		91.40
P190174079PZ*	**190.00**					190.00		174.00		7.95		104.05
P195178079PZ*	**195.00**					195.00		178.00		7.95		105.55
P200183079PZ	**200.00**					200.00		183.00		7.95		105.55
P200183095PZ*	**200.00**					200.00		183.00		9.55		107.72
P210192096PZ*	**210.00**					210.00		192.00		9.60		108.92
P220202096PZ	**220.00**					220.00		202.00		9.60		117.98
P230211096PZ*	**230.00**					230.00		211.00		9.60		120.82
P240221096PZ*	**240.00**					240.00		221.00		9.60		163.75
P250230096PZ	**250.00**					250.00		230.00		9.60		163.75
P250231049PZ	**250.00**					250.00		231.00		5.00		149.92
P260240096PZ*	**260.00**					260.00		240.00		9.60		163.75
P270249096PZ*	**270.00**					270.00		249.00		9.60		197.67
P280258096PZ*	**280.00**	+ 0.15 - 0.00				280.00	+ 0.15 - 0.00	258.00		9.60		197.67
P300277096PZ*	**300.00**					300.00		277.00		9.60		218.92
P320296123PZ*	**320.00**					320.00		296.00		12.30		233.16
P350324123PZ*	**350.00**					350.00		324.00		12.30		321.85
P360333128PZ*	**360.00**					360.00		333.00		12.80		321.85
P400372128PZ*	**400.00**					400.00		372.00		12.80		535.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material
Bronze - 660



SAE 660 split piston rings for high shock / high load applications, commonly used in conjunction with **PH-style** piston seals.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
P125113060PZ/B	**125.00**	+ 0.10 - 0.00	125.00	113.00	6.00	125.00	+ 0.08 - 0.00	112.00	+ 0.00 - 0.50	6.00	+ 0.30 - 0.00	71.57
P130118060PZ/B*	**130.00**		130.00	118.00	6.00	130.00		117.00		6.00		81.18
P140128060PZ/B*	**140.00**		140.00	128.00	6.00	140.00		127.00		6.00		88.44
P150138060PZ/B	**150.00**		150.00	138.00	6.00	150.00		137.00		6.00		109.65
P160148060PZ/B*	**160.00**		160.00	148.00	6.00	160.00		147.00		6.00		127.35
P170158060PZ/B	**170.00**		170.00	158.00	6.00	170.00		157.00		6.00		138.21
P180168060PZ/B*	**180.00**	+ 0.10 - 0.00	180.00	168.00	6.00	180.00	+ 0.08 - 0.00	167.00		6.00		144.22
P190178060PZ/B*	**190.00**		190.00	178.00	6.00	190.00		177.00		6.00		147.70
P250238060PZ/B*	**250.00**		250.00	238.00	6.00	250.00		237.00		6.00		151.20
P280258096PZ/B*	**280.00**		280.00	258.00	9.60	280.00		257.00		9.60		244.20
P280268120PZ/B*	**280.00**		280.00	268.00	12.00	280.00		267.00		12.00		278.95

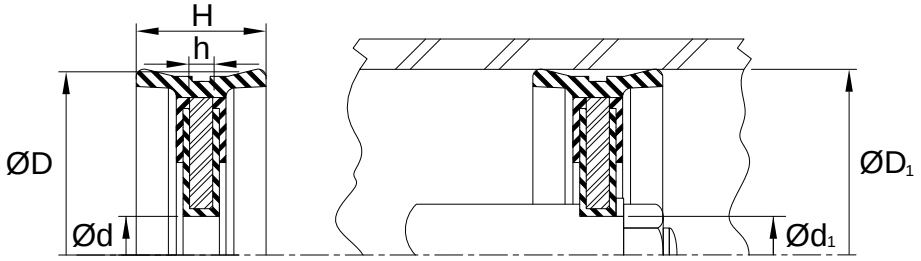
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P1B - Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Steel	-40°F to +250°F (-40°C to +121°C)	≤235 psi (≤16 bar)	<3.3 ft/s (1 m/s)



The **P1B-style** is a complete pneumatic piston with a double cup seal and a vulcanized metal disc support. It is fixed to the piston rod with a lock nut to avoid loosening during service.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	h	H	D1	Tol.	d1	Tol.	
P016004120P1B*	**16.00**	+ 0.08 - 0.00	16.00	4.00	3.00	12.00	16.00	+ 0.08 - 0.00	4.00	+ 0.05 - 0.00	12.98
P016005120P1B*	**16.00**		16.00	5.00	3.00	12.00	16.00		5.00		12.98
P020005120P1B*	**20.00**		20.00	5.00	3.00	12.00	20.00		5.00		12.98
P020006120P1B*	**20.00**		20.00	6.00	3.00	12.00	20.00		6.00		12.97
P025006120P1B*	**25.00**		25.00	6.00	3.00	12.00	25.00		6.00		14.63
P025008120P1B*	**25.00**		25.00	8.00	3.00	12.00	25.00		8.00		15.54
P032005180P1B*	**32.00**		32.00	5.00	3.00	18.00	32.00		5.00		25.66
P032006150P1B*	**32.00**		32.00	6.00	3.00	15.00	32.00		6.00		22.74
P032008150P1B*	**32.00**		32.00	8.00	3.00	15.00	32.00		8.00		16.49
P035008150P1B*	**35.00**		35.00	8.00	3.00	15.00	35.00		8.00		24.68
P040008180P1B*	**40.00**		40.00	8.00	4.00	18.00	40.00		8.00		58.04
P040008200P1B*	**40.00**		40.00	8.00	4.00	20.00	40.00		8.00		24.94
P040010180P1B	**40.00**		40.00	10.00	4.00	18.00	40.00		10.00		22.85
P050008200P1B*	**50.00**		50.00	8.00	4.00	20.00	50.00		8.00		27.50
P050010180P1B	**50.00**		50.00	10.00	4.00	18.00	50.00		10.00		28.63
P050010250P1B*	**50.00**		50.00	10.20	4.00	25.00	50.00		10.20		49.40
P050016205P1B*	**50.00**		50.00	16.00	4.00	20.50	50.00		16.00		29.46
P060012220P1B	**60.00**		60.00	12.00	4.00	22.00	60.00		12.00		44.62
P060018210P1B*	**60.00**		60.00	18.00	4.00	21.00	60.00		18.00		45.03
P063012220P1B*	**63.00**		63.00	12.00	5.00	22.00	63.00		12.00		45.38
P063016215P1B	**63.00**		63.00	16.00	4.00	21.50	63.00		16.00		45.73
P070012220P1B*	**70.00**		70.00	12.00	5.00	22.00	70.00		12.00		57.53

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Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	d	h	H	Housing Dimensions D1	Tol.	d1	Tol.	$
P070033220P1B*	**70.00**	+ 0.08 - 0.00	70.00	33.00	5.00	22.00	70.00	+ 0.08 - 0.00	33.00	+0.10/-0.00	64.77
P075015220P1B*	**75.00**		75.00	15.00	5.00	22.00	75.00		15.00	+ 0.07 - 0.00	62.10
P080012225P1B*	**80.00**	+ 0.10 - 0.00	80.00	12.00	5.00	22.50	80.00	+ 0.10 - 0.00	12.00		57.23
P080016225P1B	**80.00**		80.00	16.00	5.00	22.50	80.00		16.00		53.76
P080020225P1B*	**80.00**		80.00	20.00	5.00	22.50	80.00		20.00	+ 0.08 - 0.00	53.76
P090016250P1B*	**90.00**		90.00	16.00	5.00	25.00	90.00		16.00		72.13
P100016250P1B	**100.00**		100.00	16.00	6.50	25.00	100.00		16.00	+0.07/-0.00	83.16
P100020260P1B	**100.00**		100.00	20.00	6.00	26.00	100.00		20.00	+ 0.08 - 0.00	84.14
P110018250P1B*	**110.00**		110.00	18.00	6.00	25.00	110.00		18.00		91.60
P125020260P1B*	**125.00**		125.00	20.00	5.00	26.00	125.00		20.00		110.25
P125020280P1B*	**125.00**		125.00	20.00	7.00	28.00	125.00		20.00		138.03
P130020290P1B*	**130.00**		130.00	20.00	8.00	29.00	130.00		20.00		267.04
P140022290P1B*	**140.00**		140.00	22.00	6.00	29.00	140.00		22.00		254.73
P150020290P1B*	**150.00**		150.00	20.00	10.00	29.00	150.00		20.00		289.00
P160027290P1B*	**160.00**		160.00	27.00	6.00	29.00	160.00		27.00		222.73
P160030290P1B*	**160.00**		160.00	30.00	6.00	29.00	160.00		30.00		664.58
P180027310P1B*	**180.00**		180.00	27.00	10.00	31.00	180.00		27.00		166.01
P190020300P1B*	**190.00**		190.00	20.00	10.00	30.00	190.00		20.00		299.99
P200027350P1B	**200.00**	+ 0.13 - 0.00	200.00	27.00	10.00	35.00	200.00	+ 0.13 - 0.00	27.00		194.60
P200030350P1B*	**200.00**		200.00	30.00	10.00	35.00	200.00		30.00		225.60
P250030350P1B	**250.00**		250.00	30.00	12.00	35.00	200.00		30.00		240.39
P320036400P1B*	**320.00**		320.00	36.00	15.00	40.00	320.00		36.00		O/R
P400040500P1B*	**400.00**		400.00	40.00	20.00	50.00	400.00		40.00		O/R

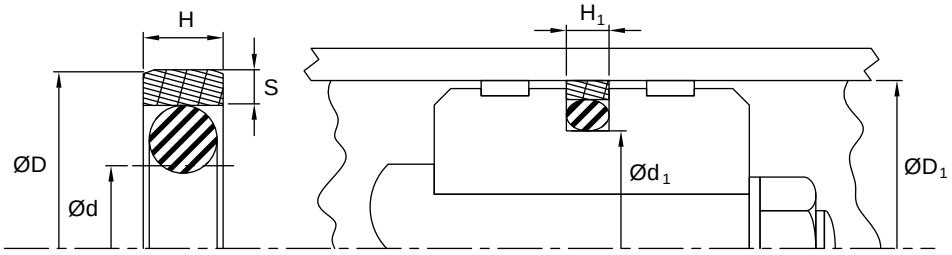
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P2B - Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
BR.PTFE/Nitrile	-50°F à +250°F (-45°C à +121°C)	≤5000 psi (≤345 bar)	< 12 ft/s (3.7 m/s)



P2B-style seals are two-part sealing units combining a low-friction, PTFE-based dynamic sealing element and an elastomeric loader ring insuring a fully energized device for both low and high pressure applications.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P008003022P2B*	**8.00**	+ 0.08 - 0.00	8.00	1.05	2.00	-006	3.10	+ 0.00 - 0.02	2.20	+ 0.20 - 0.00	13.73
P010005022P2B*	**10.00**		10.00	1.05	2.00	-009	5.10		2.20		13.73
P012007022P2B	**12.00**		12.00	1.05	2.00	-011	7.10	+ 0.00 - 0.03	2.20		10.37
P014009022P2B*	**14.00**		14.00	1.05	2.00	-012	9.10		2.20		13.73
P015007032P2B*	**15.00**		15.00	1.65	2.95	-109	7.50		3.20		12.09
P015010022P2B*	**15.00**		15.00	1.05	2.00	-012	10.10	+0.00/-0.04	2.20		13.73
P016008032P2B	**16.00**		16.00	1.65	2.95	-109	8.50	+0.00/-0.03	3.20		13.73
P016011022P2B*	**16.00**		16.00	1.05	2.00	-013	11.10	+0.00/-0.04	2.20		13.73
P017009032P2B*	**17.00**		17.00	1.65	2.95		9.50	+0.00/-0.03	3.20		13.73
P018010032P2B*	**18.00**		18.00	1.65	2.95	-111	10.50	+ 0.00 - 0.04	3.20		13.73
P018013022P2B*	**18.00**		18.00	1.05	2.00	-014	13.10		2.20		13.73
P020012032P2B*	**20.00**		20.00	1.65	2.95	-112	12.50		3.20		13.73
P020015022P2B	**20.00**		20.00	1.05	2.00	-015	15.10		2.20		13.73
P022014032P2B	**22.00**		22.00	1.65	2.95	-113	14.50		3.20		13.73
P022017022P2B	**22.00**		22.00	1.05	2.00	-017	17.10		2.20		13.73
P024016032P2B	**24.00**		24.00	1.65	2.95	-114	16.50		3.20		16.43
P024019022P2B	**24.00**		24.00	1.05	2.00	-018	19.10	+0.00/-0.05	2.20		13.73
P025014042P2B	**25.00**		25.00	2.65	3.95	-207	14.00	+ 0.00 - 0.04	4.20		13.73
P025017032P2B	**25.00**		25.00	1.65	2.95	-115	17.50		3.20		13.73
P025020022P2B	**25.00**		25.00	1.05	2.00	-019	20.10	+ 0.00 - 0.05	2.20		15.92
P026018032P2B*	**26.00**		26.00	1.65	2.95		18.50		3.20		15.92
P026021022P2B*	**26.00**		26.00	1.05	2.00	-020	21.10		2.20		15.92

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Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P027022022P2B*	**27.00**	+ 0.08 - 0.00	27.00	1.05	2.00	-020	22.50	+ 0.00 - 0.05	2.20	+ 0.20 - 0.00	15.93
P028020032P2B	**28.00**		28.00	1.65	2.95	-117	20.50		3.20		15.92
P028023022P2B*	**28.00**		28.00	1.05	2.00	-020	23.10		2.20		15.92
P030020045P2B*	**30.00**		30.00				20.50		4.50		15.92
P030021036P2B*	**30.00**		30.00				21.00		3.60		15.92
P030022032P2B	**30.00**		30.00	1.65	2.95	-118	22.50		3.20		15.92
P030025022P2B*	**30.00**		30.00	1.05	2.00	-022	25.10		2.20		17.58
P032022045P2B*	**32.00**		32.00				22.50		4.50		15.92
P032023036P2B*	**32.00**		32.00				23.00		3.60		15.92
P032024032P2B	**32.00**		32.00	1.65	2.95	-119	24.50		3.20		15.92
P032027022P2B*	**32.00**		32.00	1.05	2.00	-023	27.10		2.20		22.10
P035025045P2B	**35.00**		35.00		4.30		25.50		4.50		22.10
P035026036P2B*	**35.00**		35.00				26.00		3.60		22.10
P035027032P2B	**35.00**		35.00	1.65	2.95	-121	27.50		3.20		15.92
P035030022P2B	**35.00**		35.00	1.05	2.00	-025	30.10	+0.00/-0.06	2.20		22.10
P036025042P2B*	**36.00**		36.00	2.65	3.95	-214	25.00	+ 0.00 - 0.05	4.20		22.10
P036027032P2B*	**36.00**		36.00	1.65	2.95	-121	27.50		3.20		22.10
P036028032P2B*	**36.00**		36.00	1.65	2.95	-122	28.50		3.20		19.26
P036031022P2B*	**36.00**		36.00	1.05	2.00	-025	31.10	+ 0.00 - 0.06	2.20		22.10
P038030032P2B	**38.00**		38.00	1.65	2.95	-123	30.50		3.20		22.10
P040026057P2B	**40.00**		40.00				26.30	+ 0.00 - 0.05	5.70		22.10
P040029042P2B	**40.00**		40.00	2.65	3.95	-216	29.00		4.20		19.26
P040030045P2B	**40.00**		40.00				30.00		4.50		22.10
P040032032P2B	**40.00**		40.00	1.65	2.95	-124	32.50	+ 0.00 - 0.06	3.20		19.26
P042031042P2B	**42.00**		42.00	2.65	3.95	-217	31.00		4.20		22.10
P042031057P2B	**42.00**		42.00				31.30		5.70		22.10
P042034032P2B	**42.00**		42.00	1.65	2.95	-125	34.50		3.20		22.10
P045034042P2B	**45.00**		45.00	2.65	3.95	-219	34.00		4.20		19.26
P045035045P2B	**45.00**		45.00	2.00	4.30		35.00		4.50		19.25
P045037032P2B	**45.00**		45.00	1.65	2.95	-127	37.50		3.20		22.10
P048037042P2B	**48.00**		48.00	2.65	3.95	-221	37.00		4.20		30.49
P048040032P2B*	**48.00**		48.00	1.65	2.95	-129	40.50		3.20		30.49
P050034063P2B	**50.00**		50.00	3.50	6.05	-324	34.50		6.30		33.26
P050036057P2B	**50.00**		50.00				36.30		5.70		30.49
P050039042P2B	**50.00**		50.00	2.65	3.95	-222	39.00		4.20		19.26
P050040045P2B	**50.00**		50.00	2.00	4.30		40.00		4.50		30.79
P050042032P2B	**50.00**		50.00	1.65	2.95	-130	42.50		3.20		30.49
P055039063P2B	**55.00**		55.00	3.50	6.05	-325	39.50		6.30		36.27
P055041057P2B	**55.00**		55.00				41.30		5.70		32.98
P055044042P2B	**55.00**		55.00	2.65	3.95	-224	44.00		4.20		32.98
P055045045P2B	**55.00**		55.00	2.00	4.30		45.00		4.50		30.79
P055047032P2B*	**55.00**		55.00	1.65	2.95	-133	47.50		3.20		30.79
P056045042P2B	**56.00**		56.00	2.65	3.95	-327	45.00		4.20		35.17
P056046045P2B	**56.00**		56.00				46.00		4.50		30.79
P056048032P2B	**56.00**		56.00	1.65	2.95	-134	48.50		3.20		30.79
P057049032P2B	**57.00**		57.00	1.65	2.95	-135	49.50		3.20		30.79

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P2B series - BR.PTFE/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P060044063P2B	**60.00**	+ 0.08 - 0.00	60.00	3.50	6.05	-327	44.50	+ 0.00 - 0.06	6.30	+ 0.20 - 0.00	36.39
P060049042P2B	**60.00**		60.00	2.65	3.95	-225	49.00		4.20		19.26
P060049051P2B	**60.00**		60.00	2.50	4.90		49.50		5.10		26.29
P060050045P2B	**60.00**		60.00				50.00		4.50		30.79
P060052032P2B	**60.00**		60.00	1.65	2.95	-137	52.50	+0.00/-0.07	3.20		30.79
P063047063P2B	**63.00**		63.00	3.50	6.05	-328	47.50	+ 0.00 - 0.06	6.30		36.39
P063048075P2B	**63.00**		63.00	2.50	7.30		48.00		7.50		36.73
P063052042P2B	**63.00**		63.00	2.65	3.95	-226	52.00	+ 0.00 - 0.07	4.20		19.26
P063055032P2B	**63.00**		63.00	1.65	2.95	-138	55.50		3.20		30.79
P065049063P2B	**65.00**		65.00	3.50	6.05	-328	49.50		6.30		37.11
P065050075P2B	**65.00**		65.00	2.50	7.30		50.00	+0.00/-0.06	7.50		23.09
P065054042P2B	**65.00**		65.00	2.65	3.95	-330	54.00	+ 0.00 - 0.07	4.20		50.21
P065057032P2B*	**65.00**		65.00	1.65	2.95	-140	57.50		3.20		30.79
P069054075P2B*	**69.00**		69.00				54.00		7.50		30.79
P070054063P2B	**70.00**		70.00	3.50	6.05	-330	54.50		6.30		38.78
P070055075P2B	**70.00**		70.00				55.00		7.50		30.79
P070059042P2B	**70.00**		70.00	2.65	3.95	-228	59.00		4.20		20.08
P070062032P2B	**70.00**		70.00	1.65	2.95	-143	62.50		3.20		30.79
P071056075P2B*	**71.00**		71.00	2.50	7.30		56.00		7.50		29.69
P075054081P2B	**75.00**		75.00	4.90	7.75	-406	54.00		8.10		30.79
P075059063P2B	**75.00**		75.00	3.50	6.05	-331	59.00		6.30		30.57
P075060075P2B	**75.00**		75.00	2.50	7.30	-332	60.00		7.50		24.78
P075064042P2B	**75.00**		75.00	2.65	3.95	-230	64.00		4.20		20.91
P075067032P2B	**75.00**		75.00	1.65	2.95	-146	67.50		3.20		30.79
P080059081P2B	**80.00**	+ 0.10 - 0.00	80.00	4.90	7.75	-407	59.00		8.10		46.78
P080064063P2B	**80.00**		80.00	3.50	6.05	-333	64.50		6.30		39.50
P080065075P2B	**80.00**		80.00			-333	65.00		7.50		49.08
P080065081P2B	**80.00**		80.00	4.90	7.75		65.00		8.10		49.08
P080066072P2B	**80.00**		80.00	2.50	7.00		65.80		7.20		30.57
P080068051P2B	**80.00**		80.00				68.60		5.10		45.08
P080069042P2B	**80.00**		80.00	2.65	3.9568,00 X 3,50		69.00		4.20		32.64
P085064081P2B	**85.00**		85.00	4.90	7.75	-409	64.00		8.10		47.79
P085069063P2B	**85.00**		85.00	3.50	6.05	-335	69.50		6.30		40.63
P085070075P2B	**85.00**		85.00				70.00		7.50		36.37
P085074042P2B	**85.00**		85.00	2.65	3.95	-233	74.00		4.20		36.37
P090069081P2B	**90.00**		90.00	4.90	7.75	-410	69.00		8.10		53.00
P090074063P2B	**90.00**		90.00	3.50	6.05	-336	74.50		6.30		42.92
P090075075P2B	**90.00**		90.00	2.50	7.30	-336	75.00		7.50		53.68
P090079042P2B	**90.00**		90.00	2.65	3.95	-235	79.00		4.20		37.58
P090079063P2B	**90.00**		90.00	3.50	6.05		79.00		6.30		31.99
P095074081P2B	**95.00**		95.00	4.90	7.75	-412	74.00		8.10		55.29
P095079063P2B	**95.00**		95.00	3.50	6.05	-338	79.50		6.30		47.79
P095080075P2B	**95.00**		95.00				80.00		7.50		54.18
P095084042P2B	**95.00**		95.00	2.65	3.95	-236	84.00		4.20		39.55
P100079081P2B	**100.00**		100.00	4.90	7.75	-414	79.00		8.10		54.81
P100084063P2B	**100.00**		100.00	3.50	6.05	-339	84.50	+0.00/-0.08	6.30		40.07

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Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
P100085075P2B	**100.00**	+ 0.10 - 0.00	100.00		7.30	-339	85.00	+ 0.00 - 0.08	7.50	+ 0.20 - 0.00	31.40
P100085081P2B	**100.00**		100.00	4.90	7.75		85.00		8.10		59.28
P100086061P2B	**100.00**		100.00				85.80		6.10		47.89
P100086072P2B	**100.00**		100.00	2.50	7.00		86.60		7.20		24.29
P100089042P2B	**100.00**		100.00	2.65	3.95	-238	89.00		4.20		41.96
P105084081P2B	**105.00**		105.00	4.90	7.75	-415	84.00		8.10		53.91
P105089063P2B	**105.00**		105.00	3.50	6.05	-341	89.50		6.30		44.44
P105089075P2B	**105.00**		105.00				89.50		7.50		49.99
P108092075P2B*	**108.00**		108.00				92.00		7.50		41.96
P110089081P2B	**110.00**		110.00	4.90	7.75	-417	89.00		8.10		58.87
P110094063P2B	**110.00**		110.00	3.50	6.05	-343	94.50		6.30		38.53
P110094075P2B	**110.00**		110.00				94.00		7.50		43.77
P110096072P2B	**110.00**		110.00				95.75		7.24		71.59
P112096075P2B*	**112.00**		112.00				96.00		7.50		43.77
P115094081P2B	**115.00**		115.00	4.90	7.75	-419	94.00		8.10		60.26
P115099063P2B	**115.00**		115.00	3.50	6.05	-344	99.50		6.30		47.32
P115101072P2B	**115.00**		115.00	2.50	7.00		101.00		7.20		29.12
P120099081P2B	**120.00**		120.00	4.90	7.75	-420	99.00		8.10		60.26
P120104063P2B	**120.00**		120.00	3.50	6.05	-346	104.50		6.30		48.36
P120104075P2B	**120.00**		120.00				104.00		7.50		45.84
P125094081P2B*	**125.00**		125.00	4.90	7.75	-418	94.00		8.10		63.42
P125101081P2B*	**125.00**		125.00	4.90	7.75	-421	101.50		8.10		67.55
P125104081P2B	**125.00**		125.00	4.90	7.75	-421	104.00		8.10		60.26
P125109063P2B	**125.00**		125.00	3.50	6.05	-347	109.50		6.30		49.89
P125109075P2B	**125.00**		125.00				109.00		7.50		67.55
P130109081P2B	**130.00**		130.00	4.90	7.75	-422	109.00		8.10		62.36
P130114063P2B	**130.00**		130.00	3.50	6.05	-349	114.50		6.30		53.33
P130114075P2B	**130.00**		130.00				114.00		7.50		54.80
P135114081P2B	**135.00**		135.00	4.90	7.75	-425	114.00		8.10		70.43
P135119063P2B	**135.00**		135.00	3.50	6.05	-350	119.50		6.30		57.18
P140119081P2B	**140.00**		140.00	4.90	7.75	-426	119.00		8.10		71.21
P140124063P2B	**140.00**		140.00	3.50	6.05	-352	124.50	+ 0.00 - 0.10	6.30		61.70
P140124075P2B	**140.00**		140.00				124.00		7.50		88.14
P145124081P2B	**145.00**		145.00	4.90	7.75	-428	124.00		8.10		73.13
P145129063P2B	**145.00**		145.00	3.50	6.05	-353	129.50		6.30		64.04
P150129081P2B	**150.00**		150.00	4.90	7.75	-430	129.00		8.10		76.56
P150134063P2B	**150.00**		150.00	3.50	6.05	-355	134.50		6.30		67.29
P150134075P2B	**150.00**		150.00				134.00		7.50		96.12
P155134081P2B*	**155.00**		155.00	4.90	7.75	-431	134.00		8.10		78.32
P155139063P2B*	**155.00**		155.00	3.50	6.05	-357	139.50		6.30		68.70
P160139081P2B	**160.00**		160.00	4.90	7.75	-433	139.00		8.10		83.58
P160144063P2B*	**160.00**		160.00	3.50	6.05	-358	144.50		6.30		73.42
P160144075P2B	**160.00**		160.00				144.00		7.50		106.12
P165144081P2B	**165.00**		165.00	4.90	7.75	-434	144.00		8.10		92.36
P165149063P2B*	**165.00**		165.00	3.50	6.05	-360	149.50		6.30		75.50
P170148110P2B*	**170.00**		170.00				148.00		11.00		122.91

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P2B series - BR.PTFE/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P170149081P2B	**170.00**	+ 0.10 - 0.00	170.00	4.90	7.75	-436	149.00	+ 0.00 - 0.10	8.10	+ 0.20 - 0.00	94.99
P170154063P2B*	**170.00**		170.00	3.50	6.05	-361	154.50		6.30		75.50
P175154081P2B	**175.00**	+ 0.13 - 0.00	175.00	4.90	7.75	-437	154.00		8.10		105.57
P175159063P2B*	**175.00**		175.00	3.50	6.05	-362	159.50		6.30		77.66
P180158110P2B*	**180.00**		180.00				158.00		11.00		158.67
P180159081P2B	**180.00**		180.00	4.90	7.75	-438	159.00		8.10		103.78
P180160090P2B	**180.00**		180.00				160.00		9.10		117.50
P180164063P2B*	**180.00**		180.00	3.50	6.05	-363	164.50		6.30		120.42
P185164081P2B*	**185.00**		185.00	4.90	7.75	-439	164.00		8.10		132.50
P185169063P2B	**185.00**		185.00	3.50	6.05	-363	169.50		6.30		135.60
P190168110P2B*	**190.00**		190.00				168.00		11.00		136.20
P190169081P2B	**190.00**		190.00	4.90	7.75	-439	169.00		8.10		108.07
P190174063P2B*	**190.00**		190.00	3.50	6.05	-364	174.50		6.30		80.28
P195174081P2B*	**195.00**		195.00	4.90	7.75	-440	174.00		8.10		80.28
P195179063P2B*	**195.00**		195.00	3.50	6.05	-365	179.50		6.30		108.95
P200178110P2B	**200.00**		200.00				178.00		11.00		171.53
P200179081P2B	**200.00**		200.00	4.90	7.75	-441	179.00		8.10		111.33
P200184063P2B*	**200.00**		200.00	3.50	6.05	-366	184.50	+ 0.00 - 0.11	6.30		82.20
P204182110P2B*	**204.00**		204.00				182.00		11.00		82.20
P210188110P2B*	**210.00**		210.00				188.00		11.00		83.70
P210189081P2B	**210.00**		210.00	4.90	7.75	-443	189.00		8.10		116.23
P210194063P2B*	**210.00**		210.00	3.50	6.05	-367	194.50		6.30		83.70
P215194081P2B	**215.00**		215.00	4.90	7.75	-444	194.50		8.10		113.31
P220199081P2B	**220.00**		220.00	4.90	7.75	-444	199.00		8.10		143.57
P220204063P2B*	**220.00**		220.00	3.50	6.05	-369	204.50		6.30		88.44
P224202110P2B*	**224.00**		224.00				202.00		11.00		88.44
P225203110P2B*	**225.00**		225.00				203.00		11.00		116.25
P225204081P2B*	**225.00**		225.00	4.90	7.75	-445	204.00		8.10		124.37
P230208110P2B*	**230.00**		230.00				208.00		11.00		97.16
P230209081P2B	**230.00**		230.00	4.90	7.75	-445	209.00		8.10		97.16
P230214063P2B*	**230.00**		230.00	3.50	6.05	-371	214.50		6.30		97.16
P240218110P2B*	**240.00**		240.00				218.00		11.00		105.95
P240219081P2B	**240.00**		240.00	4.90	7.75	-446	219.00		8.10		126.79
P240224063P2B*	**240.00**		240.00	3.50	6.05	-372	224.50		6.30		105.95
P250225081P2B*	**250.00**		250.00	4.90	7.75	-446	225.50		8.10		128.97
P250228110P2B*	**250.00**		250.00				228.00		11.00		113.49
P250229081P2B	**250.00**		250.00	4.90	7.75	-447	229.50		8.10		213.52
P250234063P2B*	**250.00**		250.00	3.50	6.05	-373	234.50		6.30		113.49
P260235081P2B*	**260.00**		260.00	4.90	7.75	-447	235.50		8.10		182.38
P260236120P2B*	**260.00**		260.00				236.00		12.00		237.99
P260239081P2B	**260.00**		260.00	4.90	7.75	-447	239.00		8.10		169.15
P260244063P2B*	**260.00**		260.00	3.50	6.05	-375	244.50		6.30		174.80
P270245081P2B	**270.00**		270.00	4.90	7.75	-448	245.50		8.10		181.42
P270246120P2B*	**270.00**		270.00				246.00		12.00		199.99
P270249081P2B	**270.00**		270.00	4.90	7.75	-448	249.00		8.10		172.39
P275254081P2B*	**275.00**		275.00	4.90	7.75	-449	254.00		8.10		179.46

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P280255081P2B	**280.00**	+ 0.15 - 0.00	280.00	4.90	7.75	-449	255.00	+ 0.00 - 0.13	8.10	+ 0.20 - 0.00	175.59
P280256120P2B*	**280.00**		280.00				256.00		12.00		254.20
P280259063P2B*	**280.00**		280.00	3.50	6.05		259.00		6.30		266.14
P280259081P2B	**280.00**		280.00	4.90	7.75	-449	259.00		8.10		175.59
P290265081P2B*	**290.00**		290.00	4.90	7.75	-449	265.50		8.10		214.20
P290266120P2B*	**290.00**		290.00				266.00		12.00		222.22
P290269081P2B*	**290.00**		290.00	4.90	7.75	-450	269.00		8.10		234.19
P300274081P2B	**300.00**		300.00	4.90	7.75	-451	274.50		8.10		161.08
P300275081P2B*	**300.00**		300.00	4.90	7.75	-450	275.50		8.10		177.20
P300276120P2B*	**300.00**		300.00				276.00		12.00		224.50
P300279081P2B	**300.00**		300.00	4.90	7.75	-451	279.00		8.10		286.59
P300284063P2B*	**300.00**		300.00	3.50	6.05		284.50		6.30		269.50
P310285063P2B*	**310.00**		310.00	3.50	6.05	-379	285.50		6.30		259.24
P310286120P2B*	**310.00**		310.00				286.00		12.00		285.67
P310289081P2B	**310.00**		310.00	4.90	7.75	-451	289.00		8.10		292.50
P320295081P2B	**320.00**		320.00	4.90	7.75	-452	295.50		8.10		268.57
P320296120P2B*	**320.00**		320.00				296.00		12.00		279.20
P320299081P2B	**320.00**		320.00	4.90	7.75	-452	299.00		8.10		268.57
P320304063P2B*	**320.00**		320.00	3.50	6.05		304.50		6.30		299.50
P330305081P2B	**330.00**		330.00	6.65	7.75	-453	305.50		8.10		211.90
P340312094P2B/GL15*	**340.00**		340.00				312.00	+ 0.00 - 0.14	9.50		301.20
P340315081P2B	**340.00**		340.00	6.65	7.75	-453	315.50		8.10		316.46
P350325081P2B*	**350.00**		350.00	6.65	7.75	-454	325.50		8.10		277.97
P350329081P2B*	**350.00**		350.00	6.65	7.75		329.00		8.10		325.40
P360332095P2B/GF15	**360.00**		360.00				332.00		9.50		374.39
P360332095P2B/V*	**360.00**		360.00				332.00		9.50		437.17
P360335081P2B	**360.00**		360.00	6.65	7.75	-455	335.50		8.10		278.39
P370345081P2B	**370.00**		370.00	6.65	7.75	-456	345.50		8.10		336.28
P380355081P2B*	**380.00**		380.00	6.65	7.75	-457	355.50		8.10		347.51
P390362095P2B/GF15*	**390.00**		390.00				362.00		9.50		388.02
P390365081P2B*	**390.00**		390.00	6.65	7.75	-457	365.50		8.10		365.50
P400375081P2B	**400.00**		400.00	6.65	7.75	-458	375.50		8.10		402.35
P400379081P2B*	**400.00**		400.00	6.65	7.75		379.00		8.10		392.29
P410385081P2B*	**410.00**		410.00	6.65	7.75	-459	385.50		8.10		405.81
P420390125P2B/GF15	**420.00**		420.00				390.00		12.50		793.55
P420392095P2B*	**420.00**		420.00				392.00		9.50		429.46
P420395081P2B	**420.00**		420.00	6.65	7.75	-460	395.50		8.10		439.63
P425400081P2B	**425.00**		425.00	6.65	7.75	-460	400.50		8.10		489.80
P430405081P2B	**430.00**		430.00	6.65	7.75	-461	405.50	+ 0.00 - 0.15	8.10		419.49
P440412095P2B*	**440.00**		440.00				412.00		9.50		546.25
P440415081P2B*	**440.00**		440.00	6.65	7.75	-461	415.50		8.10		428.71
P450425081P2B*	**450.00**		450.00	6.65	7.75	-462	425.50		8.10		483.71
P460435081P2B	**460.00**		460.00	6.65	7.75	-463	435.50		8.10		637.32
P470445081P2B*	**470.00**		470.00	6.65	7.75	-464	445.50		8.10		513.80
P480450125P2B*	**480.00**		480.00				450.00		12.50		645.99
P480455081P2B*	**480.00**		480.00	6.65	7.75	-464	455.50		8.10		616.77

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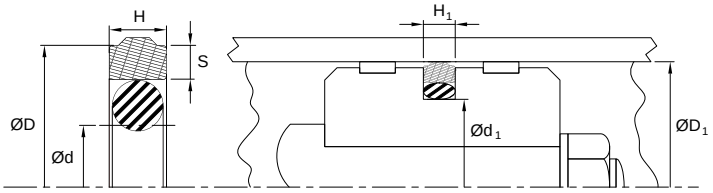
P2B series - BR.PTFE/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P490465081P2B*	**490.00**	+ 0.15 - 0.00	490.00	6.65	7.75	-465	465.50	+ 0.00 - 0.15	8.10	+ 0.20 - 0.00	659.09
P500475081P2B*	**500.00**		500.00	6.65	7.75	-466	475.50		8.10		680.87

P2U - Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyester/Nitrile	-40 °F to +230 °F (-40 °C to +110 °C)	≤5000 psi (≤345 bar)	<1.6 ft/s (0.5 m/s)



P2U-style uses the aid of two compact sealing edge. This bi-directional piston seal offers perfect fluid control, constant preload as well as reduced friction and wear.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P015008032P2U*	**15.00**	+ 0.04 - 0.00	15.00	2.00	3.00		7.50	+ 0.00 - 0.04	3.20	+ 0.20 - 0.00	11.24
P016009032P2U*	**16.00**		16.00	2.00	3.00		8.50		3.20		11.79
P020013032P2U*	**20.00**	+ 0.05 - 0.00	20.00	2.00	3.00		12.50		3.20		12.01
P025018032P2U*	**25.00**		25.00	2.00	3.00		17.50		3.20		10.74
P028021032P2U*	**28.00**		28.00	2.00	3.00		20.50	+ 0.00 - 0.05	3.20		12.01
P030023032P2U*	**30.00**		30.00	2.00	3.00		22.50		3.20		12.01
P032025032P2U*	**32.00**	+ 0.06 - 0.00	32.00	2.00	3.00		24.50		3.20		12.55
P035028032P2U*	**35.00**		35.00	2.00	3.00		27.50		3.20		12.98
P036029032P2U*	**36.00**		36.00	2.00	3.00		28.50		3.20		13.01
P040029042P2U	**40.00**		40.00	2.90	4.00		29.00		4.20		13.27
P040033032P2U*	**40.00**		40.00	2.00	3.00		32.50	+ 0.00 - 0.06	3.20		13.64
P042031042P2U*	**42.00**		42.00	2.90	4.00		31.00		4.20		13.71
P045034042P2U	**45.00**		45.00	2.90	4.00		34.00		4.20		13.80
P050035063P2U*	**50.00**		50.00	3.50	6.00		34.50		6.30		15.56
P050039042P2U	**50.00**		50.00	2.90	4.00		39.00		4.20		14.24
P055040063P2U*	**55.00**		55.00		6.00		39.50		6.30		15.98
P055044042P2U	**55.00**	+0.07/-0.00	55.00	2.90	4.00		44.00		4.20		16.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

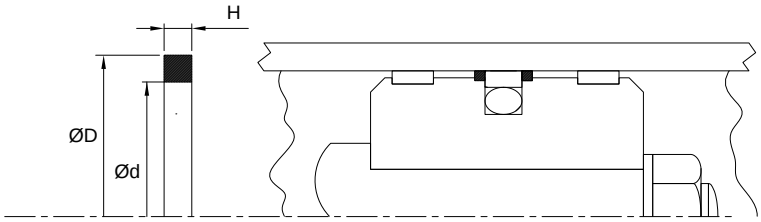
Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P060045063P2U*	**60.00**	+ 0.07 - 0.00	60.00	3.50	6.00		44.50	+ 0.00 - 0.06	6.30	+ 0.20 - 0.00	18.24
P060049042P2U	**60.00**		60.00	2.90	4.00		49.00		4.20		15.26
P063048063P2U*	**63.00**		63.00	3.50	6.00		47.50		6.30		28.40
P063052042P2U	**63.00**		63.00	2.90	4.00		52.00		4.20		19.43
P065050063P2U*	**65.00**		65.00	3.50	6.00		49.50		6.30		21.60
P065052063P2U*	**65.00**		65.00	2.50	6.00		52.00	+ 0.00 - 0.07	6.30		21.74
P065054042P2U	**65.00**		65.00	2.90	4.00		54.00		4.20		21.00
P070055063P2U*	**70.00**		70.00		6.00		54.50		6.30		22.81
P070057063P2U	**70.00**		70.00	2.80	6.00		57.00		6.30		22.11
P070059042P2U	**70.00**		70.00	2.90	4.00		59.00		4.20		21.29
P070065042P2U*	**70.00**		70.00	2.90	4.00		64.50		4.20		18.64
P075060063P2U*	**75.00**		75.00	3.50	6.00		59.50		6.30		23.60
P075064042P2U	**75.00**		75.00	2.90	4.00		64.00		4.20		22.81
P080065063P2U*	**80.00**		80.00	3.50	6.00		64.50		6.30		22.99
P080069042P2U*	**80.00**		80.00	2.90	4.00		69.00		4.20		23.60
P085070063P2U*	**85.00**	+ 0.09 - 0.00	85.00	3.50	6.00		69.50		6.30		22.24
P090075063P2U*	**90.00**		90.00	3.50	6.00		74.50		6.30		22.68
P095080063P2U*	**95.00**		95.00		6.00		79.50		6.30		23.01
P095084042P2U*	**95.00**		95.00	2.90	4.00		84.00	+ 0.00 - 0.09	4.20		23.74
P100085063P2U*	**100.00**		100.00	3.50	6.00		84.50		6.30		23.90
P105090063P2U*	**105.00**		105.00		6.00		89.50		6.30		28.60
P110095063P2U*	**110.00**		110.00	3.50	6.00		94.50		6.30		32.01
P115094081P2U*	**115.00**		115.00	5.00	7.90		94.00		8.10		44.60
P115100063P2U*	**115.00**		115.00		6.00		99.50		6.30		50.21
P120105063P2U*	**120.00**		120.00		6.00		104.50		6.30		54.80
P125104081P2U	**125.00**	+ 0.10 - 0.00	125.00	5.00	7.90		104.00		8.10		66.20
P125110063P2U*	**125.00**		125.00	3.50	6.00		109.50		6.30		28.40
P130109081P2U	**130.00**		130.00	5.00	7.90		109.00		8.10		41.02
P130115063P2U*	**130.00**		130.00	3.50	6.00		114.50		6.30		31.06
P135114081P2U	**135.00**		135.00	5.00	7.90		114.00		8.10		44.08
P140119081P2U	**140.00**		140.00	5.00	7.90		119.00		8.10		46.02
P140125063P2U*	**140.00**		140.00		6.00		124.50	+ 0.00 - 0.10	6.30		64.80
P145124081P2U*	**145.00**		145.00	5.00	7.90		124.00		8.10		90.21
P150129081P2U	**150.00**		150.00	5.00	7.90		129.00		8.10		54.28
P160139081P2U	**160.00**		160.00	5.00	7.90		139.00		8.10		28.79
P165144081P2U*	**165.00**		165.00	5.00	7.90		144.00		8.10		36.20
P170149081P2U	**170.00**		170.00	5.00	7.90		149.00		8.10		38.08
P180159081P2U	**180.00**	+ 0.13 - 0.00	180.00	5.00	7.90		159.00		8.10		57.20
P190169081P2U*	**190.00**		190.00	5.00	7.90		169.00		8.10		72.40
P200179081P2U	**200.00**		200.00	5.00	7.90		179.00		8.10		75.71
P210189081P2U	**210.00**		210.00	5.00	7.90		189.00		8.10		63.20
P220199081P2U*	**220.00**		220.00	5.00	7.90		199.00	+ 0.00 - 0.11	8.10		79.80
P225204081P2U*	**225.00**		225.00	5.00	7.90		204.00		8.10		87.99
P230209081P2U*	**230.00**		230.00	5.00	7.90		209.00		8.10		104.60
P240219081P2U*	**240.00**		240.00	5.00	7.90		219.00		8.10		124.80
P250229081P2U*	**250.00**		250.00	5.00	7.90		229.00		8.10		145.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

ST/GFN - Back-up rings - Metric



Standard Material	Temperature Range
GF.Nylon	-40°F to +250°F (-40°C to +121°C)



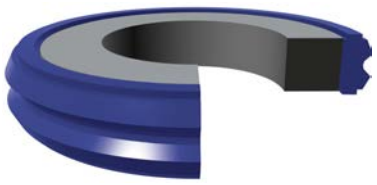
These nylon back-up rings are primarily used as anti-extrusion devices to be used along side two-piece **P2B-type** seals.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department.

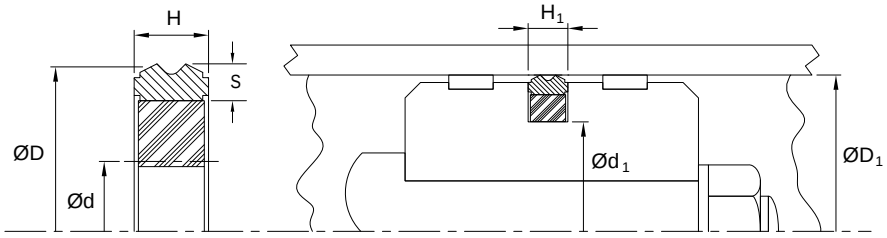
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU090095025ST/GFN*	90.00	95.00	2.50	14.47
BU089095030ST/GFN*	89.00	95.00	3.00	14.47
BU095100025ST/GFN*	95.00	100.00	2.50	14.47
BU100105025ST/GFN	100.00	105.00	2.50	15.47
BU105110025ST/GFN*	105.00	110.00	2.50	15.47
BU104110030ST/GFN	104.00	110.00	3.00	16.27
BU110115025ST/GFN*	110.00	115.00	2.50	13.46
BU109115030ST/GFN	109.00	115.00	3.00	18.06
BU115120025ST/GFN*	115.00	120.00	2.50	18.06
BU114120030ST/GFN	114.00	120.00	3.00	18.06
BU120125025ST/GFN*	120.00	125.00	2.50	18.06
BU119125030ST/GFN	119.00	125.00	3.00	19.87

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU124130030ST/GFN	124.00	130.00	3.00	19.87
BU130135025ST/GFN*	130.00	135.00	2.50	21.66
BU129135030ST/GFN	129.00	135.00	3.00	21.66
BU134140030ST/GFN	134.00	140.00	3.00	23.50
BU139145030ST/GFN	139.00	145.00	3.00	23.50
BU144150030ST/GFN	144.00	150.00	3.00	25.28
BU154160030ST/GFN*	154.00	160.00	3.00	27.13
BU159165030ST/GFN*	159.00	165.00	3.00	27.13
BU164170030ST/GFN	164.00	170.00	3.00	28.91
BU174180030ST/GFN*	174.00	180.00	3.00	30.69
BU184190030ST/GFN*	184.00	190.00	3.00	34.35

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Polyurethane/ Nitrile	-22°F to +212°F (-30°C to +100°C)	≤5800 psi (≤400 bar)	<1.5 ft/s (0.46 m/s)



This two-piece assembly has a tough polyurethane outside sealing ring offering both stability and extrusion resistance. An elastomeric expander ring offers constant preload to insure good low-pressure sealing ability.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
P025018032P2E*	**25.00**	+.052 -.000	25.00		3.00		17.50	+.000/-.043	3.20	+.200 -.000	26.85
P030023032P2E*	**30.00**		30.00		3.00		22.50	+.000 -.052	3.20		24.16
P032025032P2E*	**32.00**	+.062 -.000	32.00		3.00		24.50		3.20		26.01
P040029042P2E*	**40.00**		40.00		4.00		29.00		4.20		22.48
P045034042P2E*	**45.00**		45.00		4.00		34.00	+.000 -.062	4.20		27.91
P050037063P2E	**50.00**		50.00		6.00		37.00		6.30		18.22
P050039042P2E*	**50.00**		50.00		4.00		39.00		4.20		19.90
P055040063P2E*	**55.00**	+.074 -.000	55.00		6.00		39.50		6.30		20.99
P060045063P2E*	**60.00**		60.00		6.00		44.50		6.30		22.84
P060049063P2E*	**60.00**		60.00		6.00		49.00		6.30		31.60
P063048063P2E*	**63.00**		63.00		6.00		47.50		6.30		39.22
P063048075P2E*	**63.00**		63.00		7.30		48.00		7.50		26.44
P063050063P2E*	**63.00**		63.00		6.00		50.00		6.30		26.99
P065050063P2E*	**65.00**		65.00		6.00		49.50		6.30		29.68
P065052063P2E*	**65.00**		65.00		6.00		52.00	+.000 -.074	6.30		31.20
P070055063P2E*	**70.00**		70.00		6.00		54.50		6.30		32.68
P070055075P2E*	**70.00**		70.00		7.30		55.00		7.50		28.01
P070059042P2E*	**70.00**		70.00		4.00		59.00		4.20		31.20
P075060063P2E*	**75.00**		75.00		6.00		59.50		6.30		27.60
P075062063P2E*	**75.00**		75.00		6.00		62.00		6.30		34.18
P080065063P2E*	**80.00**		80.00		6.00		64.50		6.30		34.65
P080067063P2E*	**80.00**	+.087 -.000	80.00		6.00		66.50		6.30		41.60
P090075063P2E*	**90.00**		90.00		6.00		74.50		6.30		54.20

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

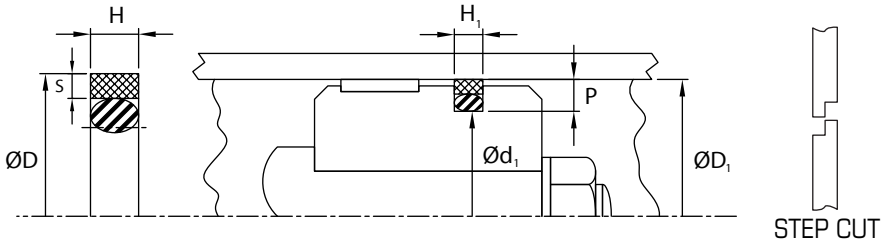
P2E series - AU/NBR

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P100079081P2E*	**100.00**	+.087 -.000	100.00		7.80		79.00	+.000/-.074	8.10	+.200 -.000	57.01
P100085063P2E*	**100.00**		100.00		6.00		84.50	+.000 -.087	6.30		57.75
P110089081P2E	**110.00**		110.00		7.80		89.00		8.10		57.02
P115094081P2E*	**115.00**		115.00		7.80		94.00		8.10		66.70
P120099081P2E	**120.00**		120.00		7.80		99.00		8.10		69.15
P120099105P2E	**120.00**		120.00		10.00		99.00		10.50		74.87
P125104081P2E*	**125.00**	+.100 -.000	125.00		7.80		104.00		8.10		78.32
P125104105P2E	**125.00**		125.00		10.00		104.00		10.50		81.20
P130109081P2E*	**130.00**		130.00		7.80		109.00		8.10		99.15
P140119081P2E*	**140.00**		140.00		7.80		119.00		8.10		91.53
P140119105P2E*	**140.00**		140.00		10.00		119.00		10.50		89.97
P150129081P2E*	**150.00**		150.00		7.80		129.00	+.000 -.100	8.10		91.60
P150129105P2E*	**150.00**		150.00		10.00		129.00		10.50		90.60
P160139081P2E*	**160.00**		160.00		7.80		139.00		8.10		149.12
P165144081P2E*	**165.00**		165.00		7.80		144.00		8.10		169.20
P170149081P2E*	**170.00**		170.00		7.80		149.00		8.10		185.40
P180159081P2E*	**180.00**		180.00		7.80		159.00		8.10		191.04
P200179081P2E*	**200.00**	+.115/-.000	200.00		7.80		179.00		8.10		240.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nylon/Nitrile	-22°F to +230°F (-30°C to +110°C)	≤7250 psi (≤500 bar)	<3.3 ft/s (1 m/s)



The **P2G-style** is a high pressure, two-part seal set, consisting of a stepped-cut Nylon sealing ring and an elastomeric loader ring for producing pre-load.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	h1	Tol.	$
P025014042P2G*	**25.00**	+ 0.08 - 0.00					14.00	+0.00/-0.04	4.20	+ 0.20 - 0.00	37.01
P032021042P2G*	**32.00**						21.00	+ 0.00 - 0.05	4.20		37.98
P040026058P2G*	**40.00**						26.30		5.80		38.24
P040029042P2G*	**40.00**						29.00		4.20		38.97
P050034063P2G/714	**50.00**						34.50	+ 0.00 - 0.06	6.30		39.14
P050036058P2G*	**50.00**						36.30		5.80		39.22
P050039042P2G*	**50.00**						39.00		4.20		39.46
P060041070P2G*	**60.00**						41.70		7.00		39.74
P063044070P2G*	**63.00**						44.70		7.00		40.99
P063047063P2G	**63.00**						47.50		6.30		41.58
P070051070P2G	**70.00**						51.70	+ 0.00 - 0.07	7.00		56.49
P070059042P2G*	**70.00**						59.00		4.20		45.20
P075054081P2G*	**75.00**						54.00		8.10		32.40
P075059063P2G*	**75.00**						59.50		6.30		31.40
P080059081P2G*	**80.00**	+ 0.10 - 0.00					59.00		8.10		30.21
P080064063P2G	**80.00**						64.50		6.30		38.82
P085064081P2G*	**85.00**						64.00		8.10		39.20
P090069081P2G*	**90.00**						69.00		8.10		40.18
P090074063P2G	**90.00**						74.50		6.30		46.29
P095074081P2G*	**95.00**						74.00		8.10		45.22
P100079081P2G*	**100.00**						79.00		8.10		44.42
P100084063P2G	**100.00**						84.50	+0.00/-0.08	6.30		54.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

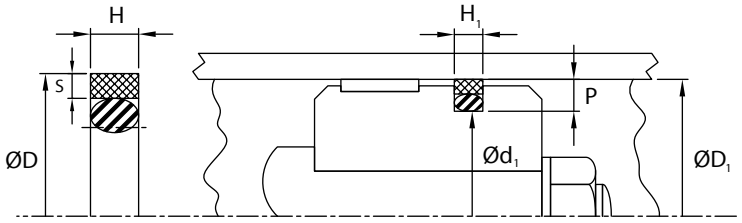
P2G series - NYLON/NBR (Step cut)

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	h1	Tol.	
P105084081P2G*	**105.00**	+ 0.10 - 0.00					84.00	+ 0.00 - 0.08	8.10	+ 0.20 - 0.00	50.09
P110089081P2G*	**110.00**						89.00		8.10		52.25
P115094081P2G*	**115.00**						94.00		8.10		58.30
P120099081P2G*	**120.00**						99.00		8.10		58.99
P125104081P2G*	**125.00**						104.00		8.10		64.76
P125109063P2G*	**125.00**						109.50		6.30		73.42
P130109081P2G*	**130.00**						109.00		8.10		68.90
P135114081P2G	**135.00**						114.00		8.10		88.64
P140119081P2G*	**140.00**						119.00		8.10		80.55
P140125081P2G*	**140.00**						125.00		8.10		61.61
P145124081P2G*	**145.00**						124.00	+ 0.00 - 0.10	8.10		57.01
P150129081P2G*	**150.00**						129.00		8.10		84.59
P160139081P2G*	**160.00**						139.00		8.10		90.34
P160144063P2G*	**160.00**						144.50		6.30		99.40
P165144081P2G*	**165.00**						144.00		8.10		183.11
P170149081P2G*	**170.00**						149.00		8.10		98.43
P175154081P2G*	**175.00**						154.00		8.10		110.10
P180159081P2G*	**180.00**	+ 0.13 - 0.00					159.00		8.10		115.35
P185164081P2G*	**185.00**						164.00		8.10		108.85
P190169081P2G	**190.00**						169.00		8.10		145.50
P200179081P2G*	**200.00**						179.00		8.10		160.77
P210189081P2G*	**210.00**						189.00	+ 0.00 - 0.11	8.10		168.85
P215194081P2G*	**215.00**						194.00		8.10		140.21
P220199081P2G*	**220.00**						199.00		8.10		180.32
P225204081P2G*	**225.00**						204.00		8.10		185.79
P230209081P2G*	**230.00**						209.00		8.10		206.06
P235214081P2G*	**235.00**						214.00		8.10		235.60
P240219081P2G*	**240.00**						219.00		8.10		268.99
P240225081P2G*	**240.00**						225.00		8.10		197.77
P250229081P2G*	**250.00**						229.00		8.10		267.58
P260239081P2G*	**260.00**						239.00		8.10		211.95
P280255081P2G*	**280.00**	+ 0.15 - 0.00					255.50	+ 0.00 - 0.13	8.10		212.60
P280259081P2G	**280.00**						259.00		8.10		277.20
P300272095P2G	**300.00**						272.00		9.50		957.77
P300279081P2G*	**300.00**						279.00		8.10		225.09
P310289081P2G*	**310.00**						289.00		8.10		238.27
P320292095P2G*	**320.00**						292.00		9.50		O/R
P330302095P2G*	**330.00**						302.00		9.50		O/R
P340312095P2G*	**340.00**						312.00		9.50		315.02
P350322095P2G	**350.00**						322.00	+ 0.00 - 0.14	9.50		756.51
P360332095P2G	**360.00**						332.00		9.50		648.80
P420390125P2G*	**420.00**						390.00		12.50		2212.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nylon/Nitrile	-22°F to +230°F (-30°C to +110°C)	≤7250 psi (≤500 bar)	<3.3 ft/s (1 m/s)





STEP CUT

Similar to the **P2G-style**, this is a two-piece piston seal for **Caterpillar®** specific equipment. Part numbers are for reference purposes only. we do not imply that these parts are of original equipment provenance.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	h1	Tol.	
CAT-1950392*	**100.00**	+ 0.10 - 0.00					84.90	+ 0.08 - 0.08	12.60	+ 0.05 - 0.05	35.70
CAT-9X7298	**100.00**						85.75		7.24		31.98
CAT-9X3586*	**105.00**						90.75		7.24		32.80
CAT-1950388*	**110.00**						94.90		12.60		45.18
CAT-9X7301	**110.00**						95.75		7.24		33.57
CAT-9X3589*	**115.00**						100.75		7.24		34.44
CAT-9X3592	**120.00**						105.74		7.24		34.35
CAT-9X3595	**130.00**						115.74		7.24		39.93
CAT-4958200*	**130.00**						115.74		7.24		44.36
CAT-1233135	**140.00**						119.00		8.20		62.06
CAT-9X3598	**140.00**						120.62		9.63		58.46
CAT-4958209*	**140.00**						120.62		9.63		64.92
CAT-9X3601	**150.00**						130.62		9.63		52.32
CAT-4958212	**150.00**						130.62		9.63		58.13
CAT-9X3604	**160.00**						140.62		9.63		53.24
CAT-5062321*	**160.00**						140.62		9.63		59.15
CAT-9X3607	**170.00**						150.62		9.63		56.17
CAT-5062322*	**170.00**						150.62		9.63		62.41
CAT-9X3610	**180.00**	+ 0.13 - 0.00					160.62		9.63		59.20
CAT-5062324*	**180.00**						160.62		9.63		66.01
CAT-1251286	**190.00**						170.62		9.63		61.26
CAT-4958218*	**190.00**						170.62		9.63		68.06

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

All manufacturer's names. part numbers and descriptions are use for reference purpose only.
We do not imply that any part shown is the product of these manufacturers.

CAT Type 3 - CAT- X-ref - NYLON/NBR (STEP CUT)

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	h1	Tol.	
CAT-8C9179	**200.00**	+ 0.13 - 0.00					174.73	+ 0.08 - 0.08	9.63	+ 0.05 - 0.05	87.15
CAT-1723918	**210.00**						184.74		9.63		90.85
CAT-8C9182	**220.00**						194.73		9.63		82.41
CAT-1921425*	**220.00**						194.73		9.63		91.56

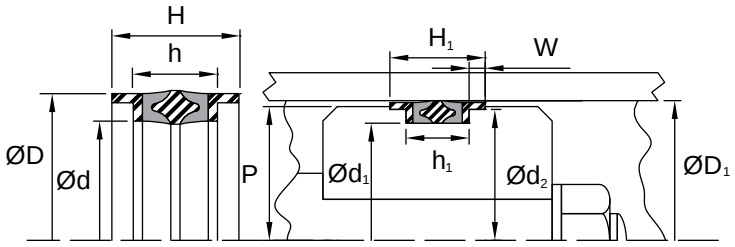
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

All manufacturer's names. part numbers and descriptions are use for reference purpose only.
We do not imply that any part shown is the product of these manufacturers.





Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric/Polyamide	-22°F to +212°F (-30°C to +100°C)	≤6000 psi (≤414 bar)	< 1.6 ft/s (0.5 m/s)



The **P3C-style**, double-acting piston seal, is a heavy-duty seal assembly used for split pistons. The center portion of the seal is manufactured from fabric-reinforced nitrile, and an acetal L-Shaped bearing ring is located at either end to protect from extrusion damage.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter	Nominal Seal Dimensions				Housing Dimensions					$
	Tol.	D	d	h	H	d1	d2 +.08/-.08	P +.12/-.12	h1 +.20/-.00	W +.10/-.00	
P025015155P3C*	**25.00** +0.08 -0.00	25.00	15.00	15.50	25.50	15.00	21.00	24.40	15.50	6.00	29.15
P025017135P3C*	**25.00**	25.00	17.00	13.50	19.90	17.00	21.00	24.40	13.50	3.20	15.74
P030022135P3C*	**30.00**	30.00	22.00	13.50	19.90	22.00	26.00	29.40	13.50	3.20	15.74
P032024155P3C	**32.00**	32.00	24.00	15.50	21.90	24.00	28.00	31.40	15.50	3.20	15.74
P035027155P3C	**35.00**	35.00	27.00	15.50	21.90	27.00	31.00	34.40	15.50	3.20	17.04
P040032155P3C	**40.00**	40.00	32.00	15.50	23.40	32.00	36.00	39.40	15.50	4.20	17.74
P045037155P3C*	**45.00**	45.00	37.00	15.50	23.90	37.00	41.00	44.40	15.50	4.20	19.28
P050030310P3C*	**50.00**	50.00	30.00	31.00	45.00	30.00	43.85	48.50	31.00	7.00	61.31
P050034184P3C*	**50.00**	50.00	34.00	18.40	31.10	34.00	45.40	48.70	31.10	6.35	22.40
P050038205P3C	**50.00**	50.00	38.00	20.50	28.90	38.00	46.00	49.40	20.50	4.20	19.87
P055043205P3C	**55.00**	55.00	43.00	20.50	28.90	43.00	51.00	54.40	20.50	4.20	45.21
P060040310P3C*	**60.00**	60.00	40.00	31.00	45.00	40.00	53.85	58.50	31.00	7.00	32.74
P060044180P3C*	**60.00**	60.00	44.00	18.00	31.20	44.00	55.40	58.70	18.50	6.35	28.67
P060048205P3C	**60.00**	60.00	48.00	20.50	28.90	48.00	56.00	59.40	20.50	4.20	22.59
P063043310P3C*	**63.00**	63.00	43.00	31.00	45.00	43.00	56.85	61.50	31.00	7.00	42.39
P063047190P3C*	**63.00**	63.00	47.00	19.00	31.70	47.00	58.40	61.65	19.40	6.35	28.67
P063048240P3C*	**63.00**	63.00	48.00	24.00	36.00	48.00	57.85	61.50	24.00	6.00	30.65
P063051205P3C	**63.00**	63.00	51.00	20.50	28.90	51.00	59.00	62.40	20.50	4.20	22.59
P065050180P3C*	**65.00**	65.00	50.00	18.00	30.90	50.00	60.40	63.70	18.40	6.35	28.67
P065053205P3C	**65.00**	65.00	53.00	20.50	28.90	53.00	61.00	64.40	20.50	4.20	22.83
P070050310P3C*	**70.00**	70.00	50.00	31.00	45.00	50.00	63.85	68.00	31.00	7.00	45.60
P070058205P3C	**70.00**	70.00	58.00	20.50	28.90	58.00	66.00	69.40	20.50	4.20	23.18
P075055220P3C*	**75.00**	75.00	55.00	22.00	34.90	55.00	69.20	73.30	22.40	6.35	33.89
P075055310P3C*	**75.00**	75.00	55.00	31.00	45.00	55.00	68.85	73.00	31.00	7.00	85.78

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

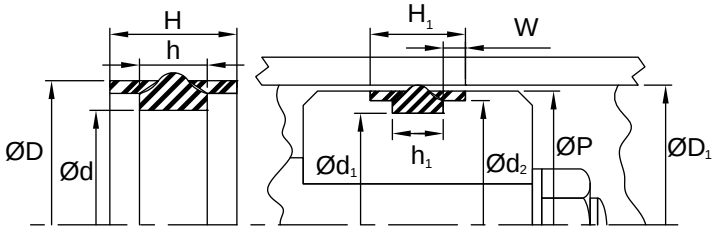
P3C series - NEOFAB/PA

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1	d2 + .08/- .08	P + .12/- .12	h1 + .20/- .00	W + .10/- .00	
P075063205P3C	**75.00**	+ 0.08 - 0.00	75.00	63.00	20.50	28.90	63.00	71.00	74.40	20.50	4.20	23.18
P080060220P3C	**80.00**		80.00	60.00	22.00	34.00	60.00	74.20	78.30	22.40	6.35	46.44
P080060310P3C*	**80.00**		80.00	60.00	31.00	45.00	60.00	73.85	78.00	31.00	7.00	88.57
P080065200P3C*	**80.00**		80.00	65.00	20.00	28.40	65.00	76.00	79.40	20.00	4.20	25.20
P080066225P3C*	**80.00**	+ 0.10 - 0.00	80.00	66.00	22.50	32.90	66.00	76.00	79.40	22.50	5.20	25.44
P085071225P3C	**85.00**		85.00	71.00	22.50	32.90	71.00	81.00	84.40	22.50	5.20	27.20
P090070310P3C*	**90.00**		90.00	70.00	31.00	45.00	70.00	83.85	88.00	31.00	7.00	51.60
P090076225P3C	**90.00**		90.00	76.00	22.50	32.90	76.00	86.00	89.40	22.50	5.20	28.27
P100080310P3C*	**100.00**		100.00	80.00	31.00	45.00	80.00	93.85	98.00	31.00	7.00	48.78
P100086225P3C	**100.00**		100.00	86.00	22.50	32.90	86.00	96.00	99.40	22.50	5.20	33.45
P110085250P3C*	**110.00**		110.00	85.00	25.00	37.90	85.00	103.50	108.00	25.00	6.45	90.05
P110090310P3C*	**110.00**		110.00	90.00	31.00	45.00	90.00	103.85	108.00	31.00	7.00	106.53
P110096225P3C	**110.00**		110.00	96.00	22.50	32.90	96.00	106.00	109.40	22.50	5.20	33.96
P115095310P3C*	**115.00**		115.00	95.00	31.00	45.00	95.00	108.85	113.00	31.00	7.00	106.62
P115101225P3C*	**115.00**		115.00	101.00	22.50	32.90	101.00	111.00	114.40	22.50	5.20	32.20
P120100310P3C*	**120.00**		120.00	100.00	31.00	45.00	100.00	113.85	118.00	31.00	7.00	68.72
P120106225P3C*	**120.00**		120.00	106.00	22.50	32.90	106.00	116.00	119.40	22.50	5.20	36.78
P125100250P3C*	**125.00**		125.00	100.00	25.00	37.90	100.00	118.50	123.00	25.00	6.45	57.22
P125100380P3C*	**125.00**		125.00	100.00	38.00	57.00	100.00	118.85	123.00	38.00	9.50	71.99
P125103265P3C*	**125.00**		125.00	103.00	26.50	40.90	103.00	121.00	124.40	26.50	7.20	62.00
P125108265P3C*	**125.00**		125.00	108.00	26.50	40.90	108.00	121.00	124.40	26.50	7.20	42.50
P130104380P3C*	**130.00**		130.00	104.00	38.00	57.00	104.00	123.85	128.00	38.00	9.50	156.78
P140120310P3C*	**140.00**		140.00	120.00	31.00	45.00	120.00	133.85	138.00	31.00	7.00	131.00
P140123265P3C*	**140.00**		140.00	123.00	26.50	40.90	123.00	136.00	139.40	26.50	7.20	45.31
P145125310P3C*	**145.00**		145.00	125.00	31.00	45.00	125.00	138.85	143.00	31.00	7.00	192.69
P150120440P3C*	**150.00**		150.00	120.00	44.00	63.00	120.00	143.85	148.00	44.00	9.50	190.20
P150133265P3C	**150.00**		150.00	133.00	26.50	40.90	133.00	146.00	149.40	26.50	7.20	48.13
P160135380P3C*	**160.00**		160.00	135.00	38.00	57.00	135.00	153.85	158.00	38.00	9.50	197.88
P160140250P3C*	**160.00**		160.00	140.00	25.00	39.40	140.00	156.00	159.40	25.00	7.20	99..20
P160140310P3C*	**160.00**		160.00	140.00	31.00	45.00	140.00	153.85	158.00	31.00	7.00	265.00
P160143265P3C	**160.00**		160.00	143.00	26.50	40.90	143.00	156.00	159.40	26.50	7.20	66.12
P180150350P3C*	**180.00**	+ 0.13 - 0.00	180.00	150.00	35.00	47.90	150.00	173.00	178.00	35.00	6.45	330.99
P180163265P3C	**180.00**		180.00	163.00	26.50	40.90	163.00	176.00	179.40	26.50	7.20	63.81
P190160440P3C*	**190.00**		190.00	160.00	44.00	63.00	160.00	183.85	188.00	44.00	9.50	250.21
P200170352P3C*	**200.00**		200.00	170.00	35.20	48.00	170.00	192.96	197.84	35.40	6.35	150.99
P200180315P3C	**200.00**		200.00	180.00	31.50	49.90	180.00	196.00	199.40	31.50	9.20	83.87
P210180317P3C*	**210.00**		210.00	180.00	31.70	44.65	180.00	203.13	208.00	31.70	6.45	291.16
P220200310P3C*	**220.00**		220.00	200.00	31.00	45.00	200.00	213.85	218.00	31.00	7.00	377.03
P220200315P3C	**220.00**		220.00	200.00	31.50	50.50	200.00	216.00	219.40	31.50	9.50	66.63
P250225315P3C*	**250.00**		250.00	225.00	31.50	44.70	225.00	246.00	249.40	31.50	6.60	89.20
P250230315P3C	**250.00**		250.00	230.00	31.50	49.90	230.00	246.00	249.40	31.50	9.20	110.26

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Polyamide	-22°F to +212°F (-30°C to +100°C)	≤2500 psi (≤160 bar)	< 1.6 ft/s (0.5 m/s)



The **P3D-style** double acting seal is a simple, effective and economical design, Ideal for light duty one piece piston applications. Its compact dimensions enable the designer to keep the length of the piston to a minimum.

Alternate Materials : For applications that may requir

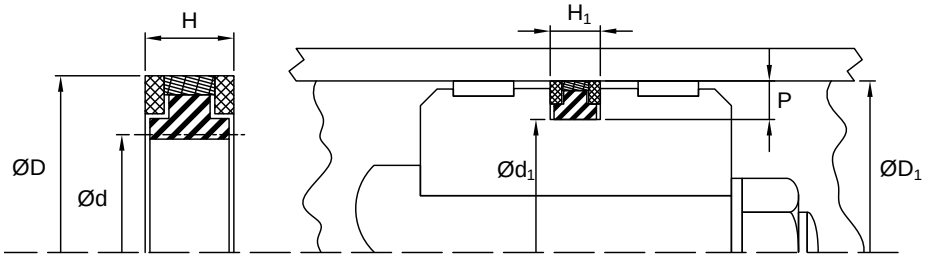
Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions					$
			D	d	h	H	d1	d2 +.08/-.08	P +.12/-.12	h1 +.20/-.00	W +.10/-.00	
P025017085P3D*	**25.00**	+ 0.20 - 0.00	25.00	17.50	8.50	15.00	17.50	21.30	24.00	8.50	3.25	13.26
P025017085P3D/65*	**25.00**		25.00	17.50	8.50	15.00	17.50	21.30	24.00	8.50	3.25	29.32
P032022110P3D*	**32.00**		32.00	22.00	11.00	19.00	22.00	27.50	31.00	11.00	4.00	14.25
P032022110P3D/65*	**32.00**		32.00	22.00	11.00	19.00	22.00	27.50	31.00	11.00	4.00	24.00
P040030110P3D*	**40.00**		40.00	30.00	11.00	19.00	30.00	35.50	39.00	11.00	4.00	17.16
P040030110P3D/65*	**40.00**		40.00	30.00	11.00	19.00	30.00	35.50	39.00	11.00	4.00	35.46
P050040110P3D*	**50.00**		50.00	40.00	11.00	19.00	40.00	45.50	49.00	11.00	4.00	17.10
P050040110P3D/65*	**50.00**		50.00	40.00	11.00	19.00	40.00	45.50	49.00	11.00	4.00	32.08
P063053110P3D*	**63.00**		63.00	53.00	11.00	19.00	53.00	58.50	61.50	11.00	4.00	22.74
P063053110P3D/65*	**63.00**		63.00	53.00	11.00	19.00	53.00	58.50	61.50	11.00	4.00	45.31
P080070110P3D*	**80.00**		80.00	70.00	11.00	19.00	70.00	75.50	78.50	11.00	4.00	31.26
P080070110P3D/65*	**80.00**		80.00	70.00	11.00	19.00	70.00	75.50	78.50	11.00	4.00	41.72
P092082110P3D*	**92.00**		92.00	82.00	11.00	19.00	82.00	87.50	90.50	11.00	4.00	38.60
P100087140P3D*	**100.00**		100.00	87.00	14.00	26.00	87.00	93.80	98.50	14.00	6.00	62.35
P100087140P3D/65*	**100.00**		100.00	87.00	14.00	26.00	87.00	93.80	98.50	14.00	6.00	89.42
P125112140P3D*	**125.00**		125.00	112.00	14.00	26.00	112.00	118.00	123.50	14.00	6.00	64.10
P125112140P3D/65*	**125.00**		125.00	112.00	14.00	26.00	112.00	118.00	123.50	14.00	6.00	83.46
P140124175P3D*	**140.00**		140.00	124.00	17.50	35.00	124.00	132.00	138.50	17.50	8.75	72.59
P140124175P3D/65*	**140.00**		140.00	124.00	17.50	35.00	124.00	132.00	138.50	17.50	8.75	96.50
P160140250P3D*	**160.00**		160.00	140.00	25.00	50.00	140.00	151.40	158.50	25.00	12.50	101.40
P160140250P3D/65*	**160.00**		160.00	140.00	25.00	50.00	140.00	151.40	158.50	25.00	12.50	164.32
P180160250P3D*	**180.00**		180.00	160.00	25.00	50.00	160.00	171.40	178.50	25.00	12.50	124.99
P180160250P3D/65*	**180.00**		180.00	160.00	25.00	50.00	160.00	171.40	178.50	25.00	12.50	182.55
P200180250P3D*	**200.00**		200.00	180.00	25.00	50.00	180.00	191.40	198.50	25.00	12.50	128.60
P200180250P3D/65*	**200.00**		200.00	180.00	25.00	50.00	180.00	191.40	198.50	25.00	12.50	187.74

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P4A - Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
PTFE/Nitrile/ Nylon	-20°F to +220°F (-29°C to +104°C)	≤6500 psi (≤450 bar)	<5 ft/s (1.5 m/s)



This is a Bi-Directional, piston seal for heavy duty applications. The PTFE cap and custom elastomer ring provide a low friction seal with excellent leakage control.The anti-extrusion rings allow for larger than normal piston clearances.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	d1	Tol.	D1	Tol.	h1	Tol.	
P050036085P4A	50.00	+ 0.08 - 0.00	50.00	36.00	8.50	50.00	+ 0.08 - 0.00	36.00	+ 0.00 - 0.20	9.00	+ 0.20 - 0.00	57.99
P050040075P4A	50.00		50.00	40.00	7.50	50.00		40.00		8.00		53.96
P055041085P4A	55.00		55.00	41.00	8.50	55.00		41.00		9.00		47.15
P056045080P4A*	56.00		56.00	45.00	8.00	56.00		45.00		8.50		67.21
P060046085P4A	60.00		60.00	46.00	8.50	60.00		46.00		9.00		52.53
P063048105P4A	63.00		63.00	48.00	10.50	63.00		48.00		11.00		35.68
P063053075P4A	63.00		63.00	53.00	7.50	63.00		53.00		8.00		76.24
P065050105P4A	65.00		65.00	50.00	10.50	65.00		50.00		11.00		31.44
P065051085P4A	65.00		65.00	51.00	8.50	65.00		51.00		9.00		82.17
P070055105P4A	70.00		70.00	55.00	10.50	70.00		55.00		11.00		52.53
P070055120P4A*	70.00		70.00	55.00	12.00	70.00		55.00		12.50		76.40
P070060075P4A	70.00		70.00	60.00	7.50	70.00		60.00		8.00		51.14
P075060105P4A	75.00		75.00	60.00	10.50	75.00		60.00		11.00		50.93
P075063086P4A*	75.00		75.00	63.00	8.60	75.00		63.00		9.10		57.20
P080065105P4A	80.00	+ 0.10 - 0.00	80.00	65.00	10.50	80.00	+ 0.08 - 0.00	65.00		11.00		57.09
P080065115P4A	80.00		80.00	65.00	11.50	80.00		65.00		12.00		56.74
P085070105P4A	85.00		85.00	70.00	10.50	85.00		70.00		11.00		65.62
P090075105P4A	90.00		90.00	75.00	10.50	90.00		75.00		11.00		64.33
P090075115P4A	90.00		90.00	75.00	11.50	90.00		75.00		12.00		61.96
P090075120P4A	90.00		90.00	75.00	12.00	90.00		75.00		12.50		83.73
P095080105P4A	95.00		95.00	80.00	10.50	95.00		80.00		11.00		65.62
P095080120P4A	95.00		95.00	80.00	12.00	95.00		80.00		12.50		68.67
P100085120P4A	100.00		100.00	85.00	12.00	100.00		85.00		12.50		69.48
P105090120P4A	105.00		105.00	90.00	12.00	105.00		90.00		12.50		72.63

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Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	d1	Tol.	D1	Tol.	h1	Tol.	
P110095120P4A	110.00	+ 0.08 - 0.00	110.00	95.00	12.00	110.00	+ 0.08 - 0.00	95.00	+ 0.00 - 0.20	12.50	+ 0.20 - 0.00	73.94
P115100120P4A	115.00		115.00	100.00	12.00	115.00		100.00		12.50		81.70
P120100155P4A	120.00		120.00	100.00	15.50	120.00		100.00		16.00		108.53
P120105120P4A	120.00		120.00	105.00	12.00	120.00		105.00		12.50		77.06
P125102155P4A	125.00		125.00	102.00	15.50	125.00		102.00		16.00		85.68
P125105155P4A	125.00		125.00	105.00	15.50	125.00		105.00		16.00		117.29
P125108155P4A	125.00		125.00	108.00	15.50	125.00		108.00		16.00		111.18
P130107155P4A	130.00		130.00	107.00	15.50	130.00		107.00		16.00		92.58
P130110155P4A	130.00		130.00	110.00	15.50	130.00		110.00		16.00		107.48
P130115125P4A	130.00		130.00	115.00	12.50	130.00		115.00		13.00		104.56
P135112155P4A	135.00		135.00	112.00	15.50	135.00		112.00		16.00		98.51
P140117155P4A	140.00		140.00	117.00	15.50	140.00		117.00		16.00		104.86
P140120155P4A	140.00		140.00	120.00	15.50	140.00		120.00		16.00		132.99
P140123155P4A/730	140.00		140.00	123.00	15.50	140.00		123.00		16.00		180.06
P145122155P4A	145.00	+ 0.10 - 0.00	145.00	122.00	15.50	145.00	+ 0.08 - 0.00	122.00		16.00		105.61
P150127155P4A	150.00		150.00	127.00	15.50	150.00		127.00		16.00		114.05
P155132155P4A	155.00		155.00	132.00	15.50	155.00		132.00		16.00		88.31
P160137155P4A	160.00		160.00	137.00	15.50	160.00		137.00		16.00		129.55
P160140155P4A	160.00		160.00	140.00	15.50	160.00		140.00		16.00		118.94
P160145120P4A	160.00		160.00	145.00	12.00	160.00		145.00		12.50		150.29
P160145155P4A/730	160.00		160.00	145.00	15.50	160.00		145.00		16.00		260.32
P165142155P4A	165.00		165.00	142.00	15.50	165.00		142.00		16.00		143.25
P170147155P4A	170.00		170.00	147.00	15.50	170.00		147.00		16.00		146.78
P170155140P4A/VOLVO*	170.00		170.00	155.00	O/R	170.00		155.00		O/R		298.50
P175152155P4A*	175.00		175.00	152.00	15.50	175.00		152.00		16.00		113.21
P180157155P4A	180.00	+ 0.13 - 0.00	180.00	157.00	15.50	180.00	+ 0.13 - 0.00	157.00		16.00		135.77
P180160155P4A	180.00		180.00	160.00	15.50	180.00		160.00		16.00		133.19
P180165120P4A*	180.00		180.00	165.00	12.00	180.00		165.00		12.50		181.15
P185162155P4A	185.00		185.00	162.00	15.50	185.00		162.00		16.00		141.97
P190167155P4A	190.00		190.00	167.00	15.50	190.00		167.00		16.00		171.37
P190175125P4A	190.00		190.00	175.00	12.50	190.00		175.00		13.00		171.47
P190175140P4A/VOLVO	190.00		190.00	175.00	O/R	190.00		175.00		O/R		323.81
P195172155P4A*	195.00		195.00	172.00	15.50	195.00		172.00		16.00		137.14
P200177155P4A	200.00		200.00	177.00	15.50	200.00		177.00		16.00		160.35
P200180155P4A/730	200.00		200.00	180.00	15.50	200.00		180.00		16.00		199.78
P200180195P4A/730	200.00		200.00	180.00	19.50	200.00		180.00		20.00		302.72
P200182185P4A	200.00		200.00	181.50	18.50	200.00		181.50		19.00		525.04
P210187155P4A*	210.00		210.00	187.00	15.50	210.00		187.00		16.00		146.48
P220197155P4A	220.00		220.00	197.00	15.50	220.00		197.00		16.00		153.86
P225194240P4A*	225.00		225.00	194.00	23.50	225.00		194.00		24.00		1048.54
P225202155P4A	225.00		225.00	202.00	15.50	225.00		202.00		16.00		204.19
P230207155P4A*	230.00		230.00	207.00	15.50	230.00		207.00		16.00		164.77
P230210155P4A	230.00		230.00	210.00	15.50	230.00		210.00		16.00		394.69
P240217155P4A	240.00		240.00	217.00	15.50	240.00		217.00		16.00		165.47
P250222170P4A	250.00		250.00	222.00	17.00	250.00		222.00		17.50		218.12
P250230160P4A/VOLVO	250.00		250.00	230.00	O/R	250.00		230.00		O/R		478.02

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

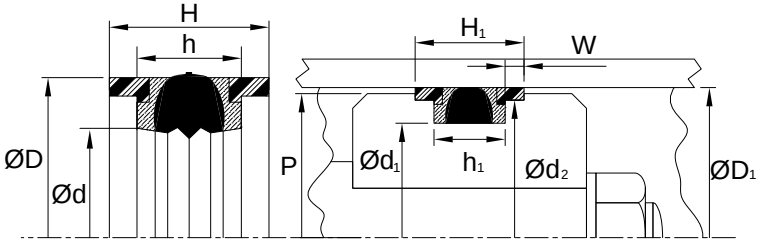
P4A series - PTFE/NBR/NYLON

Ref.Number	Bore Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	d1	Tol.	D1	Tol.	h1	Tol.	
P260232170P4A	260.00	+ 0.13 - 0.00	260.00	232.00	17.00	260.00	+ 0.13 - 0.00	232.00	+ 0.00 - 0.20	17.50	+ 0.20 - 0.00	218.12
P260240160P4A/VOLVO	260.00		260.00	240.00	O/R	260.00		240.00		O/R		478.02
P270240295P4A/730	270.00		270.00	240.00	29.50	270.00		240.00		30.00		346.50
P270242170P4A	270.00		270.00	242.00	17.00	270.00		242.00		17.50		252.52
P280252170P4A	280.00	+ 0.15 - 0.00	280.00	252.00	17.00	280.00	+ 0.15 - 0.00	252.00		17.50		244.56
P290265260P4A/730	290.00		290.00	265.00	26.00	290.00		265.00		27.00		548.40
P300272170P4A	300.00		300.00	272.00	17.00	300.00		272.00		17.50		324.64
P320292170P4A	320.00		320.00	292.00	17.00	320.00		292.00		17.50		425.59
P350322170P4A	350.00		350.00	322.00	17.00	350.00		322.00		17.50		944.41
P400372170P4A*	400.00		400.00	372.00	17.00	400.00		372.00		17.50		1122.00
P400370310P4A/730	400.00		400.00	370.00	31.00	400.00		370.00		32.00		842.08

P5B Piston seals - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Nitrile/Polyamide/ Polyester	-22°F à +212°F (-30°C à +100°C)	≤6000 psi (≤414 bar)	< 1.6 ft/s (0.5 m/s)



P5B seals are designed for easy installation on one-piece pistons. Using a homogeneous center ring for excellent sealability, split nylon rings are added for extrusion resistance as well as split bearing rings for guiding.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1	d2 + .08/- .08	P + .12/- .12	h1 + .20/- .00	W + .10/- .00	
P020011135P5B*	**20.00**	+ 0.08 - 0.00	20.00	11.00	13.50	17.70	11.00	17.00	19.00	13.50	2.10	15.83
P022013135P5B	**22.00**		22.00	13.00	13.50	17.70	13.00	19.00	21.00	13.50	2.10	15.83
P025015125P5B*	**25.00**		25.00	15.00	12.50	20.50	15.00	22.00	24.00	12.50	4.00	15.83
P025015164P5B	**25.00**		25.00	15.00	16.40	29.20	15.00	21.45	23.50	16.40	6.40	15.83
P025016135P5B	**25.00**		25.00	16.00	13.50	17.70	16.00	22.00	24.00	13.50	2.10	15.83
P025017135P5B	**25.00**		25.00	17.00	13.50	19.90	17.00	21.00	24.40	13.50	3.20	15.83
P028019135P5B	**28.00**		28.00	19.00	13.50	17.70	19.00	25.00	27.00	13.50	2.10	16.29

Ref.Number	Bore Diameter	Nominal Seal Dimensions				Housing Dimensions					$
	Tol.	D	d	h	H	d1	d2 + .08/- .08	P + .12/- .12	h1 + .20/- .00	W + .10/- .00	
P030017154P5B	**30.00** + 0.08 - 0.00	30.00	17.00	15.40	28.10	17.00	26.50	28.50	15.40	6.40	16.29
P030021135P5B	**30.00**	30.00	21.00	13.50	17.70	21.00	27.00	29.00	13.50	2.10	16.29
P030022135P5B	**30.00**	30.00	22.00	13.50	19.90	22.00	26.00	29.40	13.50	3.20	19.69
P032022125P5B	**32.00**	32.00	22.00	12.50	20.50	22.00	29.00	31.00	12.50	4.00	24.70
P032022155P5B	**32.00**	32.00	22.00	15.50	20.70	22.00	28.00	31.00	15.50	2.60	23.07
P032022164P5B	**32.00**	32.00	22.00	16.40	29.20	22.00	28.50	30.50	16.40	6.40	24.70
P032024100P5B	**32.00**	32.00	24.00	10.00	18.00	24.00	29.00	31.00	10.00	4.00	23.05
P032024155P5B*	**32.00**	32.00	24.00	15.50	21.90	24.00	28.00	31.40	15.50	3.20	23.07
P035025155P5B	**35.00**	35.00	25.00	15.50	20.70	25.00	31.00	34.00	15.50	2.60	25.58
P035025164P5B	**35.00**	35.00	25.00	16.40	29.20	25.00	31.40	33.50	16.40	6.40	18.23
P035027155P5B*	**35.00**	35.00	27.00	15.50	21.90	27.00	31.00	34.40	15.50	3.20	21.65
P036026155P5B	**36.00**	36.00	26.00	15.50	20.70	26.00	32.00	35.00	15.50	2.60	19.52
P040024184P5B	**40.00**	40.00	24.00	18.40	31.20	24.00	35.40	38.70	18.40	6.40	19.78
P040026155P5B	**40.00**	40.00	26.00	15.50	20.70	26.00	36.00	39.00	15.50	2.60	27.26
P040030100P5B	**40.00**	40.00	30.00	10.00	20.00	30.00	36.50	39.00	10.00	5.00	78.34
P040030113P5B	**40.00**	40.00	30.00	11.30	19.30	30.00	35.40	38.00	11.30	4.00	24.50
P040030125P5B*	**40.00**	40.00	30.00	12.50	20.50	30.00	37.00	39.00	12.50	4.00	27.26
P040030164P5B	**40.00**	40.00	30.00	16.40	29.20	30.00	35.40	38.70	16.40	6.40	27.26
P040032100P5B	**40.00**	40.00	32.00	10.00	18.00	32.00	37.00	39.00	10.00	4.00	26.17
P040032155P5B*	**40.00**	40.00	32.00	15.50	21.90	32.00	36.00	39.40	15.50	3.20	27.26
P042028155P5B	**42.00**	42.00	28.00	15.50	20.70	28.00	38.00	41.00	15.50	2.60	22.77
P045029184P5B	**45.00**	45.00	29.00	18.40	31.20	29.00	40.40	43.70	18.40	6.40	28.37
P045031155P5B	**45.00**	45.00	31.00	15.50	20.70	31.00	41.00	44.00	15.50	2.60	28.37
P045035164P5B	**45.00**	45.00	35.00	16.40	29.20	35.00	40.40	43.50	16.40	6.40	28.31
P050034184P5B	**50.00**	50.00	34.00	18.40	31.20	34.00	45.40	48.70	18.40	6.40	29.03
P050034205P5B	**50.00**	50.00	34.00	20.50	26.70	34.00	46.00	49.00	20.50	3.10	29.93
P050034320P5B	**50.00**	50.00	34.00	32.00	44.70	34.00	43.77	47.85	32.00	6.35	38.08
P050035200P5B*	**50.00**	50.00	35.00	20.00	30.00	35.00	46.00	48.50	20.00	5.00	39.22
P050038205P5B*	**50.00**	50.00	38.00	20.50	28.90	38.00	46.00	49.40	20.50	4.20	29.03
P050040125P5B*	**50.00**	50.00	40.00	12.50	20.50	40.00	47.00	49.00	12.50	4.00	29.03
P055039184P5B*	**55.00**	55.00	39.00	18.40	31.20	39.00	50.40	53.70	18.40	6.40	32.13
P055039205P5B	**55.00**	55.00	39.00	20.50	26.70	39.00	51.00	54.00	20.50	3.10	30.92
P055040320P5B	**55.00**	55.00	40.00	32.00	44.70	40.00	48.77	52.85	32.00	6.35	57.59
P055045125P5B	**55.00**	55.00	45.00	12.50	20.50	45.00	52.00	54.00	12.50	4.00	23.94
P056040205P5B	**56.00**	56.00	40.00	20.50	26.70	40.00	52.00	55.00	20.50	3.10	26.93
P060044184P5B	**60.00**	60.00	44.00	18.40	31.20	44.00	55.40	58.70	18.40	6.40	34.23
P060044205P5B	**60.00**	60.00	44.00	20.50	26.70	44.00	56.00	59.00	20.50	3.10	18.08
P060044320P5B	**60.00**	60.00	44.00	32.00	44.70	44.00	53.80	57.80	32.00	6.35	40.20
P060048205P5B*	**60.00**	60.00	48.00	20.50	28.90	48.00	56.00	59.40	20.50	4.20	34.23
P063047184P5B	**63.00**	63.00	47.00	18.40	31.20	47.00	58.40	61.50	18.40	6.40	20.32
P063047194P5B	**63.00**	63.00	47.00	19.40	32.20	47.00	58.40	61.70	19.40	6.40	37.11
P063047205P5B	**63.00**	63.00	47.00	20.50	26.70	47.00	59.00	62.00	20.50	3.10	47.20
P063048200P5B	**63.00**	63.00	48.00	20.00	30.00	48.00	59.00	61.50	20.00	5.00	42.83
P063051205P5B	**63.00**	63.00	51.00	20.50	28.90	51.00	59.00	62.40	20.50	4.20	37.11
P063053125P5B	**63.00**	63.00	53.00	12.50	20.50	53.00	60.00	62.00	12.50	4.00	37.11
P065049205P5B*	**65.00**	65.00	49.00	20.50	26.70	49.00	61.00	64.00	20.50	3.10	23.17

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P5B series - NBR/PA/POLYESTER

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1	d2 + .08/- .08	P + .12/- .12	h1 + .20/- .00	W + .10/- .00	
P065049320P5B	**65.00**	+ 0.08 - 0.00	65.00	49.00	32.00	44.70	49.00	58.70	62.80	32.00	6.35	46.42
P065050184P5B	**65.00**		65.00	50.00	18.40	31.20	50.00	60.40	63.70	18.40	6.40	37.17
P070050224P5B*	**70.00**		70.00	50.00	22.40	35.20	50.00	64.20	68.30	22.40	6.40	38.02
P070050350P5B	**70.00**		70.00	50.00	35.00	54.04	50.00	62.61	67.54	35.00	9.50	66.21
P070054205P5B*	**70.00**		70.00	54.00	20.50	26.70	54.00	66.00	69.00	20.50	3.10	46.88
P070055200P5B	**70.00**		70.00	55.00	20.00	30.00	55.00	66.00	68.50	20.00	5.00	42.08
P070055224P5B	**70.00**		70.00	55.00	22.40	35.10	55.00	64.15	68.35	22.40	6.40	46.07
P070058205P5B	**70.00**		70.00	58.00	20.50	28.90	58.00	66.00	69.40	20.50	4.20	38.02
P075055224P5B	**75.00**		75.00	55.00	22.40	35.20	55.00	69.20	73.30	22.40	6.40	39.45
P075055350P5B	**75.00**		75.00	55.00	35.00	54.04	55.00	67.70	72.54	35.00	9.50	66.21
P075059205P5B	**75.00**		75.00	59.00	20.50	26.70	59.00	71.00	74.00	20.50	3.10	32.53
P080060224P5B	**80.00**	+ 0.10 - 0.00	80.00	60.00	22.40	35.20	60.00	74.20	78.30	22.40	6.40	43.07
P080060224P5B/T53	**80.00**		80.00	60.00	22.40	35.20	60.00	74.20	78.30	22.40	6.40	146.03
P080060250P5B	**80.00**		80.00	60.00	25.00	37.60	60.00	75.00	78.00	25.00	6.30	43.07
P080060350P5B*	**80.00**		80.00	60.00	35.00	54.04	60.00	72.62	77.54	35.00	9.50	43.06
P080062225P5B	**80.00**		80.00	62.00	22.50	29.70	62.00	76.00	79.00	22.50	3.60	43.07
P080065200P5B*	**80.00**		80.00	65.00	20.00	30.00	65.00	76.00	78.50	20.00	5.00	32.66
P080066225P5B	**80.00**		80.00	66.00	22.50	32.90	66.00	76.00	79.40	22.50	5.20	43.07
P080070113P5B	**80.00**		80.00	70.00	11.30	19.30	70.00	75.50	78.50	11.30	4.00	62.48
P085065224P5B	**85.00**		85.00	65.00	22.40	35.20	65.00	79.20	83.30	22.40	6.40	44.77
P085065350P5B*	**85.00**		85.00	65.00	35.00	54.04	65.00	77.62	82.54	35.00	9.50	72.19
P085075200P5B	**85.00**		85.00	75.00	20.00	28.00	75.00	81.00	83.34	20.00	4.00	39.47
P090070210P5B	**90.00**		90.00	70.00	21.00	33.00	70.00	84.15	88.31	21.00	6.40	61.36
P090070220P5B/T53	**90.00**		90.00	70.00	22.00	34.70	70.00	84.20	88.00	22.00	6.35	147.13
P090070224P5B	**90.00**		90.00	70.00	22.40	35.20	70.00	84.20	88.30	22.40	6.40	49.85
P090070350P5B	**90.00**		90.00	70.00	35.00	54.04	70.00	82.58	87.55	35.00	9.50	78.16
P090072225P5B	**90.00**		90.00	72.00	22.50	29.70	72.00	86.00	89.00	22.50	3.60	35.48
P090075200P5B*	**90.00**		90.00	75.00	20.00	30.00	75.00	86.00	88.50	20.00	5.00	89.93
P090076224P5B	**90.00**		90.00	76.00	22.40	32.90	76.00	86.00	89.40	22.50	5.20	49.85
P092082125P5B	**92.00**		92.00	82.00	12.50	25.30	82.00	88.04	90.80	12.50	6.40	67.42
P095075224P5B	**95.00**		95.00	75.00	22.40	35.20	75.00	89.00	93.30	22.40	6.40	69.70
P095075350P5B*	**95.00**		95.00	75.00	35.00	54.04	75.00	87.60	92.50	35.00	9.50	66.17
P100075224P5B	**100.00**		100.00	75.00	22.40	35.20	75.00	93.20	98.00	22.40	6.40	53.84
P100080250P5B*	**100.00**		100.00	80.00	25.00	37.70	80.00	95.00	98.00	25.00	6.35	53.84
P100080254P5B	**100.00**		100.00	80.00	25.40	38.10	80.00	95.00	98.00	25.40	6.35	44.44
P100080350P5B*	**100.00**		100.00	80.00	35.00	54.04	80.00	92.61	97.51	35.00	9.50	84.14
P100082225P5B	**100.00**		100.00	82.00	22.50	29.70	82.00	96.00	99.00	22.50	3.60	40.40
P100085200P5B	**100.00**		100.00	85.00	20.00	30.00	85.00	96.00	98.50	20.00	5.00	71.41
P100086200P5B	**100.00**		100.00	86.00	20.00	30.00	86.00	96.00	99.40	20.00	5.00	44.47
P100086225P5B	**100.00**		100.00	86.00	22.50	32.90	86.00	96.00	99.40	22.50	5.20	40.40
P105080224P5B	**105.00**		105.00	80.00	22.40	35.20	80.00	98.10	103.00	22.40	6.40	56.59
P105092143P5B	**105.00**		105.00	92.00	14.30	27.10	92.00	98.80	103.40	14.30	5.35	81.54
P110085224P5B*	**110.00**		110.00	85.00	22.40	35.20	85.00	103.10	108.00	22.40	6.40	59.56
P110085254P5B*	**110.00**		110.00	85.00	25.40	38.20	85.00	103.10	108.00	25.40	6.40	59.56
P110085450P5B*	**110.00**		110.00	85.00	45.00	70.40	85.00	101.78	107.31	45.00	12.70	96.11
P110090253P5B*	**110.00**		110.00	90.00	25.30	38.10	90.00	104.10	108.30	25.30	6.40	47.69

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Nominal Seal Dimensions				Housing Dimensions					$
	Tol.	D	d	h	H	d1	d2 + .08/- .08	P + .12/- .12	h1 + .20/- .00	W + .10/- .00	
P110090350P5B	**110.00** + 0.10 - 0.00	110.00	90.00	35.00	54.04	90.00	102.70	107.51	35.00	9.50	96.11
P110092225P5B	**110.00**	110.00	92.00	22.50	29.70	92.00	106.00	109.00	22.50	3.60	42.26
P110095200P5B	**110.00**	110.00	95.00	20.00	30.00	95.00	105.00	108.50	20.00	5.00	43.00
P110096225P5B	**110.00**	110.00	96.00	22.50	32.90	96.00	106.00	109.40	22.50	5.20	42.24
P115090224P5B*	**115.00**	115.00	90.00	22.40	35.20	90.00	108.10	113.00	22.40	6.40	61.86
P115090450P5B	**115.00**	115.00	90.00	45.00	70.40	90.00	106.82	112.33	45.00	12.70	108.09
P115097224P5B*	**115.00**	115.00	97.00	22.40	29.70	97.00	111.00	114.00	22.40	3.60	63.41
P115101224P5B*	**115.00**	115.00	101.00	22.40	32.80	101.00	111.00	114.40	22.40	5.20	56.94
P120095224P5B	**120.00**	120.00	95.00	22.40	35.20	95.00	113.00	118.00	22.40	6.40	63.38
P120095450P5B	**120.00**	120.00	95.00	45.00	70.40	95.00	111.82	117.33	45.00	12.70	203.75
P120100350P5B*	**120.00**	120.00	100.00	35.00	54.04	100.00	112.80	117.51	35.00	9.50	108.09
P120106225P5B	**120.00**	120.00	106.00	22.50	32.90	106.00	116.00	119.40	22.50	5.20	64.05
P125100254P5B	**125.00**	125.00	100.00	25.40	38.20	100.00	118.10	123.00	25.40	6.40	64.62
P125100254P5B/T53	**125.00**	125.00	100.00	25.40	38.20	100.00	118.10	123.00	25.40	6.40	190.91
P125100320P5B	**125.00**	125.00	100.00	32.00	52.00	100.00	119.00	123.00	32.00	10.00	55.71
P125100450P5B	**125.00**	125.00	100.00	45.00	70.40	100.00	116.82	122.33	45.00	12.70	166.24
P125103265P5B	**125.00**	125.00	103.00	26.50	36.70	103.00	121.00	124.00	26.50	5.10	67.41
P125105250P5B	**125.00**	125.00	105.00	25.00	37.70	105.00	120.00	123.00	25.00	6.35	50.71
P125105254P5B	**125.00**	125.00	105.00	25.40	38.20	105.00	119.00	123.30	25.40	6.40	112.66
P125108265P5B*	**125.00**	125.00	108.00	26.50	40.90	108.00	121.00	124.40	26.50	7.20	67.41
P130105254P5B*	**130.00**	130.00	105.00	25.40	38.20	105.00	123.10	128.00	25.40	6.35	69.70
P130105254P5B-1	**130.00**	130.00	105.00	25.40	44.04	105.00	122.60	127.50	25.40	9.50	56.97
P130105450P5B*	**130.00**	130.00	105.00	45.00	70.40	105.00	121.82	127.33	45.00	12.70	172.26
P130110254P5B	**130.00**	130.00	110.00	25.40	38.20	110.00	124.10	128.30	25.40	6.40	70.94
P130110350P5B	**130.00**	130.00	110.00	35.00	54.04	110.00	122.70	127.30	35.00	9.50	273.85
P135110254P5B*	**135.00**	135.00	110.00	25.40	38.20	110.00	128.10	133.00	25.40	6.40	80.24
P135110254P5B-1	**135.00**	135.00	110.00	25.40	44.40	110.00	127.60	132.50	25.40	9.50	59.16
P135110450P5B	**135.00**	135.00	110.00	45.00	70.40	110.00	126.82	132.33	45.00	12.70	120.08
P140115254P5B	**140.00**	140.00	115.00	25.40	38.20	115.00	133.00	138.00	25.40	6.40	70.94
P140115254P5B-1	**140.00**	140.00	115.00	25.40	44.40	115.00	132.60	137.50	25.40	9.50	70.94
P140115450P5B	**140.00**	140.00	115.00	45.00	70.40	115.00	131.70	137.36	45.00	12.70	149.78
P140118265P5B*	**140.00**	140.00	118.00	26.50	36.70	118.00	136.00	139.00	26.50	5.10	43.50
P140120250P5B	**140.00**	140.00	120.00	25.00	37.70	120.00	135.00	138.00	25.00	6.35	70.94
P140120350P5B	**140.00**	140.00	120.00	35.00	54.04	120.00	132.70	137.30	35.00	9.50	122.79
P140123265P5B*	**140.00**	140.00	123.00	26.50	40.90	123.00	136.00	139.40	26.50	7.20	87.24
P145120254P5B	**145.00**	145.00	120.00	25.40	38.20	120.00	137.60	142.50	25.40	6.40	198.40
P145120254P5B-1	**145.00**	145.00	120.00	25.40	44.40	120.00	137.60	142.50	25.40	9.52	146.66
P145120450P5B	**145.00**	145.00	120.00	45.00	70.40	120.00	136.72	142.30	45.00	12.70	79.09
P150125254P5B	**150.00**	150.00	125.00	25.40	38.20	125.00	143.00	148.00	25.40	6.40	61.00
P150125254P5B-1	**150.00**	150.00	125.00	25.40	44.40	125.00	142.60	147.50	25.40	9.50	81.54
P150125450P5B	**150.00**	150.00	125.00	45.00	70.40	125.00	141.71	147.32	45.00	12.70	157.39
P150128265P5B	**150.00**	150.00	128.00	26.50	36.70	128.00	146.00	149.00	26.50	5.10	103.43
P150130254P5B	**150.00**	150.00	130.00	25.40	38.20	130.00	144.10	148.30	25.40	6.40	61.90
P150133265P5B	**150.00**	150.00	133.00	26.50	40.90	133.00	146.00	149.40	26.50	7.20	55.17
P155130254P5B	**155.00**	155.00	130.00	25.40	38.20	130.00	148.00	153.00	25.40	6.40	68.20
P155130254P5B-1*	**155.00**	155.00	130.00	25.40	44.40	130.00	147.60	152.50	25.40	9.50	70.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



P5B series - NBR/PA/POLYESTER

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1	d2 + .08/- .08	P + .12/- .12	h1 + .20/- .00	W + .10/- .00	
P160130254P5B	**160.00**	+ 0.10 - 0.00	160.00	130.00	25.40	38.20	130.00	153.00	157.90	25.40	6.40	93.75
P160130254P5B-1 *	**160.00**		160.00	130.00	25.40	44.04	130.00	152.60	157.50	25.00	9.50	96.47
P160135254P5B*	**160.00**		160.00	135.00	25.40	44.40	135.00	152.60	157.50	25.40	9.50	73.96
P160135320P5B	**160.00**		160.00	135.00	32.00	52.00	135.00	154.00	158.00	32.00	10.00	240.44
P160135450P5B	**160.00**		160.00	135.00	45.00	70.40	135.00	151.72	157.10	45.00	12.70	293.95
P160138265P5B*	**160.00**		160.00	138.00	26.50	36.70	138.00	156.00	159.00	26.50	5.10	339.42
P160140250P5B*	**160.00**		160.00	140.00	25.00	37.60	140.00	155.00	158.00	25.00	6.30	93.75
P160143265P5B*	**160.00**		160.00	143.00	26.50	40.90	143.00	156.00	159.40	26.50	7.20	66.17
P165140254P5B*	**165.00**		165.00	140.00	25.40	44.04	140.00	157.60	162.50	25.40	9.50	127.13
P170140254P5B	**170.00**		170.00	140.00	25.40	38.20	140.00	163.00	168.00	25.40	6.40	230.00
P170140254P5B-1*	**170.00**		170.00	140.00	25.40	50.80	140.00	161.72	167.00	25.40	12.70	60.70
P170140450P5B	**170.00**		170.00	140.00	45.00	70.40	140.00	163.00	167.80	45.00	12.70	142.31
P170145254P5B	**170.00**		170.00	145.00	25.40	38.10	145.00	161.70	169.40	25.40	6.35	89.60
P170145254P5B-1*	**170.00**		170.00	145.00	25.40	50.80	145.00	161.72	167.10	25.40	12.70	64.65
P170148265P5B*	**170.00**		170.00	148.00	26.50	36.70	148.00	166.00	169.00	26.50	5.10	79.40
P175150254P5B	**175.00**	+ 0.13 - 0.00	175.00	150.00	25.40	50.80	150.00	166.70	172.10	25.40	12.70	82.35
P180150354P5B*	**180.00**		180.00	150.00	35.40	48.10	150.00	173.00	177.32	35.40	6.35	122.89
P180150360P5B	**180.00**		180.00	150.00	36.00	61.00	150.00	172.00	178.00	36.00	12.50	116.20
P180155254P5B*	**180.00**		180.00	155.00	25.40	50.80	155.00	171.70	177.70	25.40	12.70	122.89
P180155450P5B	**180.00**		180.00	155.00	45.00	70.40	155.00	171.70	177.10	45.00	12.70	175.59
P180158265P5B*	**180.00**		180.00	158.00	26.50	36.70	158.00	176.00	179.00	26.50	5.10	312.87
P180163265P5B*	**180.00**		180.00	163.00	26.50	40.90	163.00	176.00	179.40	26.50	7.20	101.92
P185160254P5B	**185.00**		185.00	160.00	25.40	50.80	160.00	176.70	182.50	25.40	12.70	260.49
P185160450P5B*	**185.00**		185.00	160.00	45.00	70.40	160.00	176.72	182.10	45.00	12.70	242.18
P190165254P5B*	**190.00**		190.00	165.00	25.40	50.80	165.00	181.70	187.00	25.40	12.70	136.82
P190165450P5B*	**190.00**		190.00	165.00	45.00	70.40	165.00	181.70	187.10	45.00	12.70	198.88
P190170305P5B*	**190.00**		190.00	170.00	30.50	42.80	170.00	183.00	188.00	30.50	6.40	198.91
P195170254P5B	**195.00**		195.00	170.00	25.40	50.80	170.00	186.70	192.00	25.40	12.70	138.38
P200170354P5B	**200.00**		200.00	170.00	35.40	48.20	170.00	193.00	198.00	35.40	6.40	98.17
P200170360P5B	**200.00**		200.00	170.00	36.00	61.00	170.00	192.00	197.00	36.00	12.50	101.20
P200175254P5B	**200.00**		200.00	175.00	25.40	50.80	175.00	191.60	197.00	25.40	12.70	102.52
P200175315P5B	**200.00**		200.00	175.00	31.50	44.70	175.00	196.00	199.40	31.50	6.60	158.86
P200175450P5B	**200.00**		200.00	175.00	45.00	70.40	175.00	191.70	197.33	45.00	12.70	237.21
P200180315P5B	**200.00**		200.00	180.00	31.50	49.90	180.00	196.00	199.40	31.50	9.20	58.83
P210185254P5B	**210.00**		210.00	185.00	25.40	50.80	185.00	201.60	207.00	25.40	12.70	99.11
P210185450P5B	**210.00**		210.00	185.00	45.00	70.40	185.00	201.60	207.10	45.00	12.70	216.40
P220190354P5B	**220.00**		220.00	190.00	35.40	48.10	190.00	213.50	217.90	35.40	6.40	158.83
P220190360P5B	**220.00**		220.00	190.00	36.00	61.10	190.00	212.00	217.00	36.00	12.50	138.41
P220195254P5B	**220.00**		220.00	195.00	25.40	50.80	195.00	211.60	217.00	25.40	12.70	148.22
P220195450P5B	**220.00**		220.00	195.00	45.00	70.40	195.00	211.70	217.10	45.00	12.70	222.54
P225200254P5B	**225.00**		225.00	200.00	25.40	50.80	200.00	216.60	222.32	25.40	12.70	105.91
P225200315P5B	**225.00**		225.00	200.00	31.50	44.70	200.00	221.00	224.00	31.50	6.60	105.98
P230205254P5B	**230.00**		230.00	205.00	25.40	50.80	205.00	221.60	227.00	25.40	12.70	103.05
P230205450P5B	**230.00**		230.00	205.00	45.00	70.40	205.00	221.70	227.10	45.00	12.70	504.73
P240215254P5B	**240.00**		240.00	215.00	25.40	50.80	215.00	231.60	237.00	25.40	12.70	73.67
P240215450P5B	**240.00**		240.00	215.00	45.00	70.40	215.00	231.70	237.10	45.00	12.70	394.62

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P5B series - NBR/PA/POLYESTER

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions					$
			D	d	h	H	d1	d2 + .08/- .08	P + .12/- .12	h1 + .20/- .00	W + .10/- .00	
P250220354P5B	**250.00**	+ 0.13 - 0.00	250.00	220.00	35.40	48.20	220.00	243.00	248.00	35.40	6.40	209.35
P250220360P5B	**250.00**		250.00	220.00	36.00	61.00	220.00	242.00	247.00	36.00	12.50	257.49
P250225254P5B	**250.00**		250.00	225.00	25.40	50.80	225.00	241.60	247.00	25.40	12.70	138.92
P250225315P5B	**250.00**		250.00	225.00	31.50	44.70	225.00	246.00	249.00	31.50	6.60	119.89
P250225450P5B	**250.00**		250.00	225.00	45.00	70.40	225.00	241.70	247.10	45.00	12.70	218.39
P250230315P5B	**250.00**		250.00	230.00	31.50	49.90	230.00	246,00	249,40	31.50	9.20	102.85
P260235354P5B	**260.00**		260.00	235.00	35.40	60.80	235.00	252.90	257.00	35.40	12.70	147.03
P260235450P5B	**260.00**		260.00	235.00	45.00	70.40	235.00	251.70	257.10	45.00	12.70	258.57
P270245450P5B	**270.00**		270.00	245.00	45.00	70.40	245.00	261.72	267.10	45.00	12.70	321.66
P275250315P5B	**275.00**	+ 0.15 - 0.00	275.00	250.00	31.50	44.70	250.00	271.00	274.00	31.50	6.60	332.37
P280250354P5B	**280.00**		280.00	250.00	35.40	54.44	250.00	272.90	277.00	35.40	9.50	345.63
P280250364P5B	**280.00**		280.00	250.00	36.40	56.40	250.00	273.00	278.00	36.40	10.00	220.00
P280255450P5B	**280.00**		280.00	255.00	45.00	70.40	255.00	271.70	277.10	45.00	12.70	333.42
P290265450P5B	**290.00**		290.00	265.00	45.00	70.40	265.00	281.70	287.10	45.00	12.70	385.27
P300275315P5B	**300.00**		300.00	275.00	31.50	44.70	275.00	296.00	299.00	31.50	6.60	395.60
P300275450P5B	**300.00**		300.00	275.00	45.00	70.40	275.00	291.72	297.10	45.00	12.70	402.16
P320290354P5B	**320.00**		320.00	290.00	35.40	54.40	290.00	312.40	317.00	35.40	9.52	263.48
P320290360P5B	**320.00**		320.00	290.00	36.00	61.40	290.00	312.00	317.00	36.00	12.50	263.48
P350325450P5B	**350.00**		350.00	325.00	45.00	70.40	325.00	341.72	347.10	45.00	12.70	649.65
P360335445P5B	**360.00**		360.00	335.00	44.50	69.90	335.00	351.76	357.33	44.50	12.70	645.49

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OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.





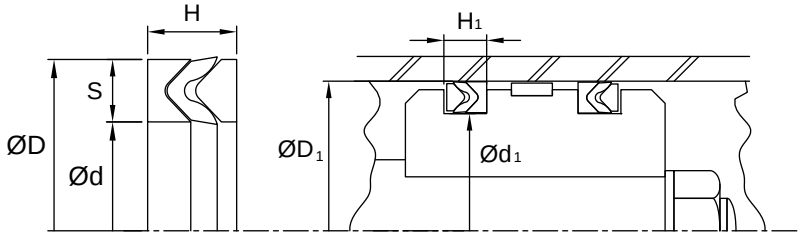


	V1	M	2
	V2-V3-V4-V5	M	4

V1 - Vee Packings - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric/ Polyamide	-22°F to +212°F (-30°C to +100°C)	6000 psi (414 bar)	<1.6 ft/s (0.5 m/s)



V1-Vee Packings are popular sealing devices for both pneumatic and hydraulic applications. Usually supplied as a multi-ring sealing unit, a set is made up of a given number of intermediate vee-rings as well as a male and female adapter to insure proper support. Available in both homogeneous and fabric reinforced materials for intermediate rings and in fabric-reinforced and nylon materials for the adapter rings, **V1-Vee Packings** are used to seal piston in standard cylinders.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
V010020089V1*	**20.00**	+0.08 -0.00	20.00	10.00	8.90	20.00	+0.08 -0.00	10.00	+0.08 -0.00	9.30	+0.25 -0.00	28.36
V012022089V1*	**22.00**		22.00	12.00	8.90	22.00		12.00		9.30		28.36
V015025089V1*	**25.00**		25.00	15.00	8.90	25.00		15.00		9.30		28.36
V018028089V1*	**28.00**		28.00	18.00	8.90	28.00		18.00		9.30		36.52
V020030089V1*	**30.00**		30.00	20.00	8.90	30.00		20.00		9.30		36.52
V020032104V1*	**20.00**		32.00	20.00	10.40	32.00		20.00		10.90		34.88
V023035104V1*	**35.00**		35.00	23.00	10.40	35.00		23.00		10.90		33.08
V024036104V1*	**36.00**		36.00	24.00	10.40	36.00		24.00		10.90		33.98
V025040110V1*	**40.00**		40.00	25.00	11.00	40.00		25.00		11.50		34.24
V027042110V1*	**42.00**		42.00	27.00	11.00	42.00		27.00		11.50		36.04
V030045110V1*	**45.00**		45.00	30.00	11.00	45.00		30.00		11.50		42.81
V035050110V1*	**50.00**		50.00	35.00	11.00	50.00		35.00	+0.10 -0.00	11.50		23.60
V040055110V1*	**55.00**		55.00	40.00	11.00	55.00		40.00		11.50		44.92
V041056110V1*	**56.00**		56.00	41.00	11.00	56.00		41.00		11.50		45.03
V045060110V1*	**60.00**		60.00	45.00	11.00	60.00		45.00		11.50		45.23
V048063125V1*	**63.00**		63.00	48.00	12.50	63.00		48.00		13.00		30.01
V050070146V1*	**70.00**		70.00	50.00	14.60	70.00		50.00		15.20		48.65
V060080146V1*	**80.00**	+0.10 -0.00	80.00	60.00	14.60	80.00	+0.10 -0.00	60.00	+0.12 -0.00	15.20		74.60
V070090206V1*	**90.00**		90.00	70.00	20.60	90.00		70.00		21.20		57.99
V080100206V1	**100.00**		100.00	80.00	20.60	100.00		80.00		21.20		62.59
V090110206V1	**110.00**		110.00	90.00	20.60	110.00		90.00	+0.14 -0.00	21.20		66.41
V095115206V1*	**115.00**		115.00	95.00	20.60	115.00		95.00		21.20		71.60

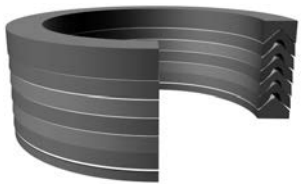
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
V100125250V1*	**125.00**	+ 0.10 - 0.00	125.00	100.00	25.00	125.00	+ 0.10 - 0.00	100.00	+ 0.14 - 0.00	25.80	+ 0.25 - 0.00	79.85
V115140250V1*	**140.00**		140.00	115.00	25.00	140.00		115.00		25.80		115.20
V120150280V1*	**150.00**		150.00	120.00	28.00	150.00		120.00		29.00		107.72
V130160280V1	**160.00**		160.00	130.00	28.00	160.00		130.00	+ 0.16 - 0.00	29.00		121.15
V150180305V1	**180.00**	+ 0.13 - 0.00	180.00	150.00	30.50	180.00	+ 0.13 - 0.00	150.00		31.50		204.00
V165195325V1*	**195.00**		195.00	165.00	32.50	195.00		165.00		33.50		181.41
V170200325V1	**200.00**		200.00	170.00	32.50	200.00		170.00		33.50		210.30
V190220325V1*	**220.00**		220.00	190.00	32.50	220.00		190.00	+ 0.18 - 0.00	33.50		268.83
V195225325V1*	**225.00**		225.00	195.00	32.50	225.00		195.00		33.50		274.43
V220250325V1	**250.00**		250.00	220.00	32.50	250.00		220.00		33.50		343.84
V245275325V1*	**275.00**	+ 0.15 - 0.00	275.00	245.00	32.50	275.00	+ 0.15 - 0.00	245.00		33.50		390.76
V250280325V1*	**280.00**		280.00	250.00	32.50	280.00		250.00	+ 0.21 - 0.00	33.50		407.88
V270300325V1*	**300.00**		300.00	270.00	32.50	300.00		270.00		33.50		435.55
V710750360V1*	**710.00**		750.00	710.00	36.00	750.00		710.00		37.00		2866.66

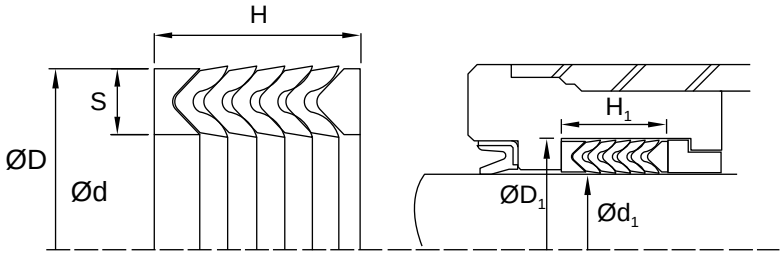
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



V2-V3-V4-V5 - Vee Packings - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
Neo-Fabric/ Polyamide/Nitrile	-22°F to +212°F (-30°C to +100°C)	6000 psi (414 bar)	<1.6 ft/s (0.5 m/s)



Configuration : V2 = 1-2-1 V4 = 1-4-1
V3 = 1-3-1 V5 = 1-5-1

V2-V3-V4-V5-Vee Packings are popular sealing devices for both pneumatic and hydraulic applications. Usually supplied as a multi-ring sealing unit, a set is made up of a given number of intermediate vee-rings as well as a male and female adapter to insure proper support. Available in both homogeneous and fabric reinforced materials for intermediate rings and in fabric-reinforced and nylon materials for the adapter rings, **V2-V3-V4-V5-Vee Packings** are used to seal both piston and rod applications in standard as well as telescopic cylinder models.

Alternate Materials: For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V010020110V2*	**10.00**	+ 0.00 - 0.04	10.00	20.00	11.00	10.00	+ 0.00 - 0.04	20.00	+ 0.08 - 0.00	11.00	+ 0.25 - 0.00	69.82
V010020185V3*	**10.00**		10.00	20.00	18.50	10.00		20.00		18.50		33.24
V012022185V3*	**12.00**		12.00	22.00	18.50	12.00		22.00		18.50		33.24
V012025143V2*	**12.00**		12.00	25.00	14.35	12.00		25.00		14.35		48.97
V014024185V3*	**14.00**		14.00	24.00	18.50	14.00		24.00		18.50		33.24
V014025185V3*	**14.00**		14.00	25.00	18.50	14.00		25.00		18.50		48.97
V015025185V3*	**15.00**		15.00	25.00	18.50	15.00		25.00		18.50		33.24
V016026185V5*	**16.00**		16.00	26.00	18.50	16.00		26.00		18.50		33.24
V016029143V3*	**16.00**		16.00	29.00	14.35	16.00		29.00		14.35		48.97
V018028185V5*	**18.00**		18.00	28.00	18.50	18.00		28.00		18.50		33.24
V018031143V2*	**18.00**		18.00	31.00	14.30	18.00		31.00		14.30		52.03
V020030185V5*	**20.00**		20.00	30.00	18.50	20.00		30.00	+ 0.10 - 0.00	18.50		26.66
V020030215V3	**20.00**		20.00	30.00	21.50	20.00		30.00		21.50		52.03
V020031175V2*	**20.00**		20.00	31.00	17.50	20.00		31.00		17.50		74.68
V020032225V5*	**20.00**		20.00	32.00	22.50	20.00		32.00		22.50		31.04
V020033143V2*	**20.00**		20.00	33.00	14.30	20.00		33.00		14.30		52.03
V022032185V5	**22.00**		22.00	32.00	18.50	22.00		32.00		18.50		36.93
V025035173V3*	**25.00**		25.00	35.00	17.30	25.00		35.00		17.30		52.03
V025037225V5*	**25.00**		25.00	37.00	22.50	25.00		37.00		22.50		31.82
V025040225V5	**25.00**		25.00	40.00	22.50	25.00		40.00		22.50		42.76
V025042254V2*	**25.00**		25.00	42.00	25.40	25.00		42.00		25.40		55.10
V026045294V3*	**26.00**		26.00	45.00	29.40	26.00		45.00		29.40		55.10

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V028040225V5*	**28.00**	+ 0.00 - 0.04	28.00	40.00	22.50	28.00	+ 0.08 - 0.00	40.00	+ 0.10 - 0.00	22.50	+ 0.25 - 0.00	26.66
V028044176V3*	**28.00**		28.00	44.00	17.65	28.00		44.00		17.65		55.10
V030040218V3*	**30.00**		30.00	40.00	21.80	30.00		40.00		21.80		55.10
V030042225V5*	**30.00**		30.00	42.00	22.50	30.00		42.00		22.50		47.92
V030045222V2*	**30.00**		30.00	45.00	22.20	30.00		45.00		22.20		55.10
V030045225V3*	**30.00**		30.00	45.00	22.50	30.00		45.00		22.50		53.10
V030045225V5	**30.00**		30.00	45.00	22.50	30.00		45.00		22.50		53.10
V030050297V3*	**30.00**		30.00	50.00	29.37	30.00		50.00		29.37		55.10
V032044225V5*	**32.00**		32.00	44.00	22.50	32.00		44.00		22.50		36.79
V032047225V5*	**32.00**		32.00	47.00	22.50	32.00		47.00		22.50		51.31
V035045218V3*	**35.00**		35.00	45.00	21.78	35.00		45.00		21.78		55.10
V035047225V5*	**35.00**		35.00	47.00	22.50	35.00		47.00		22.50		36.79
V035050225V3*	**35.00**		35.00	50.00	22.50	35.00		50.00		22.50		72.32
V035050225V5*	**35.00**		35.00	50.00	22.50	35.00		50.00		22.50		72.32
V036048225V5	**36.00**		36.00	48.00	22.50	36.00		48.00		22.50		40.16
V036051225V5*	**36.00**		36.00	51.00	22.50	36.00		51.00		22.50		44.96
V036052176V3*	**36.00**		36.00	52.00	17.60	36.00		52.00		17.60		58.20
V039055254V3*	**39.00**		39.00	55.00	25.40	39.00		55.00		25.40		61.26
V040050173V3*	**40.00**		40.00	50.00	17.30	40.00		50.00		17.30		72.32
V040052225V5*	**40.00**		40.00	52.00	22.50	40.00		52.00		22.50		50.54
V040055225V5	**40.00**		40.00	55.00	22.50	40.00		55.00		22.50		61.02
V040055226V3*	**40.00**		40.00	55.00	22.60	40.00		55.00		22.60		72.32
V040055250V3*	**40.00**		40.00	55.00	25.00	40.00		55.00		25.00		69.58
V040055262V3	**40.00**		40.00	55.00	26.20	40.00		55.00		26.20		61.26
V040056176V3*	**40.00**		40.00	56.00	17.63	40.00		56.00		17.63		60.33
V040060300V3	**40.00**		40.00	60.00	30.00	40.00		60.00		30.00		61.26
V040065358V3*	**40.00**		40.00	65.00	35.75	40.00		65.00		35.75		61.26
V042054225V5	**42.00**	+ 0.00 - 0.05	42.00	54.00	22.50	42.00	+ 0.00 - 0.05	54.00	+ 0.12 - 0.00	22.50		36.00
V042057225V3 *	**42.00**		42.00	57.00	22.50	42.00		57.00		22.50		53.57
V045055175V3	**45.00**		45.00	55.00	17.50	45.00		55.00		17.50		58.20
V045060222V3	**45.00**		45.00	60.00	22.20	45.00		60.00		22.20		61.26
V045060225V5	**45.00**		45.00	60.00	22.50	45.00		60.00		22.50		138.56
V045061290V3*	**45.00**		45.00	61.00	29.00	45.00		61.00		29.00		61.26
V045065275V5*	**45.00**		45.00	65.00	27.50	45.00		65.00		27.50		79.60
V045065280V3*	**45.00**		45.00	65.00	28.00	45.00		65.00		28.00		87.85
V048060250V3*	**48.00**		48.00	60.00	25.00	48.00		60.00		25.00		61.26
V048062222V3*	**48.00**		48.00	62.00	22.20	48.00		62.00		22.20		61.26
V048063225V3 *	**48.00**		48.00	63.00	22.50	48.00		63.00		22.50		47.62
V050065225V5*	**50.00**		50.00	65.00	22.50	50.00		65.00		22.50		103.24
V050065246V3*	**50.00**		50.00	65.00	24.60	50.00		65.00		24.60		82.53
V050070220V3*	**50.00**		50.00	70.00	21.95	50.00		70.00		21.95		61.26
V050070300V3*	**50.00**		50.00	70.00	30.00	50.00		70.00		30.00		81.81
V050070300V5*	**50.00**		50.00	70.00	30.00	50.00		70.00		30.00		88.78
V051069280V2*	**51.00**		51.00	69.00	28.00	51.00		69.00		28.00		74.22
V052072260V3*	**52.00**		52.00	72.00	26.00	52.00		72.00		26.00		61.26
V052072300V3*	**52.00**		52.00	72.00	30.00	52.00		72.00		30.00		74.22

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V2-V3-V4-V5 series - NEOFAB/PA/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V055067250V3*	**55.00**	+ 0.00 - 0.05	55.00	67.00	25.00	55.00	+ 0.00 - 0.05	67.00	+ 0.08 - 0.00	25.00	+ 0.25 - 0.00	63.58
V055070225V5*	**55.00**		55.00	70.00	22.50	55.00		70.00		22.50		37.78
V055070265V3*	**55.00**		55.00	70.00	26.50	55.00		70.00		26.50		73.21
V055075300V3 *	**55.00**		55.00	75.00	30.00	55.00		75.00		30.00		72.56
V055075300V5	**55.00**		55.00	75.00	30.00	55.00		75.00		30.00		70.43
V055075385V2*	**55.00**		55.00	75.00	38.50	55.00		75.00		38.50		70.43
V056071225V5	**56.00**		56.00	71.00	22.50	56.00		71.00		22.50		73.21
V056076220V3*	**56.00**		56.00	76.00	22.00	56.00		76.00		22.00		70.43
V056076370V5	**56.00**		56.00	76.00	37.00	56.00		76.00		37.00		100.53
V060075190V2*	**60.00**		60.00	75.00	19.00	60.00		75.00		19.00		70.43
V060075225V5*	**60.00**		60.00	75.00	22.50	60.00		75.00		22.50		78.68
V060076290V3	**60.00**		60.00	76.00	29.00	60.00		76.00		29.00		70.43
V060077270V3*	**60.00**		60.00	77.00	27.00	60.00		77.00		27.00		73.49
V060080220V3	**60.00**		60.00	80.00	22.00	60.00		80.00		22.00		76.54
V060080321V2*	**60.00**		60.00	80.00	32.15	60.00		80.00		32.15		76.54
V060080370V5*	**60.00**		60.00	80.00	37.00	60.00		80.00		37.00		85.91
V063078225V5	**63.00**		63.00	78.00	22.50	63.00		78.00		22.50		81.56
V063080280V2*	**63.00**		63.00	80.00	28.00	63.00		80.00		28.00		73.49
V063083220V3*	**63.00**		63.00	83.00	21.95	63.00		83.00		21.95		79.60
V063083370V5	**63.00**		63.00	83.00	37.00	63.00		83.00		37.00		112.80
V064080258V3*	**64.00**		64.00	80.00	25.80	64.00		80.00		25.80		73.49
V065077210V3*	**65.00**		65.00	77.00	21.00	65.00		77.00		21.00		70.43
V065080225V3*	**65.00**		65.00	80.00	22.50	65.00		80.00		22.50		90.62
V065080225V5*	**65.00**	+ 0.00 - 0.06	65.00	80.00	22.50	65.00	+ 0.00 - 0.06	80.00		22.50		90.62
V065080260V4*	**65.00**		65.00	80.00	26.00	65.00		80.00		26.00		73.44
V065080290V5*	**65.00**		65.00	80.00	29.00	65.00		80.00		29.00		108.82
V065085290V3	**65.00**		65.00	85.00	29.00	65.00		85.00		29.00		79.60
V065085400V5	**65.00**		65.00	85.00	40.00	65.00		85.00	+ 0.14 - 0.00	40.00		118.51
V070085225V5	**70.00**		70.00	85.00	22.50	70.00		85.00		22.50		180.45
V070085280V3*	**70.00**		70.00	85.00	28.00	70.00		85.00		28.00		79.60
V070090220V3*	**70.00**		70.00	90.00	22.00	70.00		90.00		22.00		79.60
V070090295V2*	**70.00**		70.00	90.00	29.50	70.00		90.00		29.50		81.25
V070090300V3*	**70.00**		70.00	90.00	30.00	70.00		90.00		30.00		112.26
V070090400V5	**70.00**		70.00	90.00	40.00	70.00		90.00		40.00		120.55
V075090225V2*	**75.00**		75.00	90.00	22.50	75.00		90.00		22.50		81.72
V075090225V3*	**75.00**		75.00	90.00	22.50	75.00		90.00		22.50		81.72
V075090225V5	**75.00**		75.00	90.00	22.50	75.00		90.00		22.50		81.72
V075095300V3*	**75.00**		75.00	95.00	30.00	75.00		95.00		30.00		86.85
V075095400V5*	**75.00**		75.00	95.00	40.00	75.00		95.00		40.00		125.95
V075100375V3*	**75.00**		75.00	100.00	37.50	75.00		100.00		37.50		91.83
V080095175V3*	**80.00**		80.00	95.00	17.50	80.00		95.00		17.50		85.72
V080095225V5	**80.00**	+ 0.00 - 0.09	80.00	95.00	22.50	80.00	+ 0.00 - 0.09	95.00		22.50		111.57
V080100300V3	**80.00**		80.00	100.00	30.00	80.00		100.00		30.00		91.83
V080100400V5	**80.00**		80.00	100.00	40.00	80.00		100.00		40.00		122.06
V080105274V3*	**80.00**		80.00	105.00	27.40	80.00		105.00		27.40		128.05
V085100225V5	**85.00**		85.00	100.00	22.50	85.00		100.00		22.50		99.16

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions D1	Tol.	d1	Tol.	H1	Tol.	$
V085105400V5	**85.00**	+ 0.00 - 0.09	85.00	105.00	40.00	85.00	+ 0.00 - 0.09	105.00	+ 0.14 - 0.00	40.00	+ 0.25 - 0.00	127.39
V090105225V5	**90.00**		90.00	105.00	22.50	90.00		105.00		22.50		122.28
V090105317V2*	**90.00**		90.00	105.00	31.70	90.00		105.00		31.70		96.04
V090110250V3*	**90.00**		90.00	110.00	25.00	90.00		110.00		25.00		102.45
V090110269V2*	**90.00**		90.00	110.00	26.90	90.00		110.00		26.90		107.80
V090110300V4*	**90.00**		90.00	110.00	30.00	90.00		110.00		30.00		136.81
V090110400V5	**90.00**		90.00	110.00	40.00	90.00		110.00		40.00		171.48
V090115274V3*	**90.00**		90.00	115.00	27.41	90.00		115.00		27.41		102.45
V095110240V2*	**95.00**		95.00	110.00	24.00	95.00		110.00		24.00		102.45
V095115321V3*	**95.00**		95.00	115.00	32.10	95.00		115.00		32.10		140.86
V095115400V5*	**95.00**		95.00	115.00	40.00	95.00		115.00		40.00		85.91
V100115253V3*	**100.00**		100.00	115.00	25.30	100.00		115.00		25.30		102.45
V100115300V5	**100.00**		100.00	115.00	30.00	100.00		115.00		30.00		122.28
V100120280V3*	**100.00**		100.00	120.00	28.00	100.00		120.00		28.00		102.45
V100120300V3*	**100.00**		100.00	120.00	30.00	100.00		120.00		30.00		127.71
V100120400V5	**100.00**		100.00	120.00	40.00	100.00		120.00		40.00		164.55
V100125274V3	**100.00**		100.00	125.00	27.40	100.00		125.00		27.40		102.45
V100125370V3*	**100.00**		100.00	125.00	37.00	100.00		125.00		37.00		112.04
V104130370V3*	**104.00**	+ 0.00 - 0.13	104.00	130.00	37.00	104.00	+ 0.00 - 0.13	130.00	+ 0.16 - 0.00	37.00		121.64
V105120250V3*	**105.00**		105.00	120.00	25.00	105.00		120.00		25.00		102.45
V105120300V5	**105.00**		105.00	120.00	30.00	105.00		120.00		30.00		156.77
V105125298V3*	**105.00**		105.00	125.00	29.80	105.00		125.00		29.80		112.04
V105130400V3*	**105.00**		105.00	130.00	40.00	105.00		130.00		40.00		198.23
V110125300V5	**110.00**		110.00	125.00	30.00	110.00		125.00		30.00		103.31
V110130300V3*	**110.00**		110.00	130.00	30.00	110.00		130.00		30.00		129.10
V110130400V5	**110.00**		110.00	130.00	40.00	110.00		130.00		40.00		144.34
V110132365V2*	**110.00**		110.00	132.00	36.50	110.00		132.00		36.50		117.38
V110135415V3	**110.00**		110.00	135.00	41.50	110.00		135.00		41.50		184.00
V114130258V3*	**114.00**		114.00	130.00	25.80	114.00		130.00		25.80		117.38
V115130300V5*	**115.00**		115.00	130.00	30.00	115.00		130.00		30.00		127.88
V115140371V2*	**115.00**		115.00	140.00	37.12	115.00		140.00		37.12		129.12
V115140460V5	**115.00**		115.00	140.00	46.00	115.00		140.00		46.00		177.76
V120140300V3	**120.00**		120.00	140.00	30.00	120.00		140.00		30.00		123.23
V120140490V5*	**120.00**		120.00	140.00	49.00	120.00		140.00		49.00		191.50
V120145460V5*	**120.00**		120.00	145.00	46.00	120.00		145.00		46.00		194.66
V120150440V3	**120.00**		120.00	150.00	44.00	120.00		150.00		44.00		140.86
V125140340V5	**125.00**		125.00	140.00	34.00	125.00		140.00		34.00		203.30
V125145296V3*	**125.00**		125.00	145.00	29.60	125.00		145.00		29.60		199.13
V125150274V3*	**125.00**		125.00	150.00	27.40	125.00		150.00		27.40		140.86
V125150460V5	**125.00**		125.00	150.00	46.00	125.00		150.00		46.00		176.07
V130150297V3	**130.00**		130.00	150.00	29.76	130.00		150.00		29.76		140.86
V130160415V3*	**130.00**		130.00	160.00	41.50	130.00		160.00		41.50		164.32
V135155305V3	**135.00**		135.00	155.00	30.55	135.00		155.00		30.55		164.32
V140155340V5	**140.00**		140.00	155.00	34.00	140.00		155.00		34.00		272.75
V140160285V3*	**140.00**		140.00	160.00	28.50	140.00		160.00		28.50		158.45
V140160400V5	**140.00**		140.00	160.00	40.00	140.00		160.00		40.00		256.36

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V2-V3-V4-V5 series - NEOFAB/PA/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V140165419V3*	**140.00**	+ 0.00 - 0.13	140.00	165.00	41.95	140.00	+ 0.00 - 0.13	165.00	+ 0.16 - 0.00	41.95	+ 0.25 - 0.00	170.22
V140165460V5	**140.00**		140.00	165.00	46.00	140.00		165.00		46.00		309.49
V140170329V2*	**140.00**		140.00	170.00	32.97	140.00		170.00		32.97		176.07
V140170390V3*	**140.00**		140.00	170.00	39.00	140.00		170.00		39.00		196.25
V145170381V3	**145.00**		145.00	170.00	38.10	145.00		170.00		38.10		212.03
V150170305V3	**150.00**		150.00	170.00	30.55	150.00		170.00		30.55		179.84
V150170400V5	**150.00**		150.00	170.00	40.00	150.00		170.00		40.00		215.72
V150180400V3*	**150.00**		150.00	180.00	40.00	150.00		180.00		40.00		190.74
V150180600V5*	**150.00**		150.00	180.00	60.00	150.00		180.00		60.00		489.99
V157182302V3*	**157.00**		157.00	182.00	30.25	157.00		182.00		30.25		234.74
V160180320V3*	**160.00**		160.00	180.00	32.00	160.00		180.00		32.00		238.02
V160180400V5	**160.00**		160.00	180.00	40.00	160.00		180.00		40.00		238.02
V160190330V3*	**160.00**		160.00	190.00	33.00	160.00		190.00		33.00		220.10
V160190600V5	**160.00**		160.00	190.00	60.00	160.00		190.00	+ 0.18 - 0.00	60.00		541.48
V165195505V3*	**165.00**		165.00	195.00	50.50	165.00		195.00		50.50		396.97
V170190400V5	**170.00**		170.00	190.00	40.00	170.00		190.00		40.00		240.81
V170195375V3*	**170.00**		170.00	195.00	37.50	170.00		195.00		37.50		249.41
V170200450V3	**170.00**		170.00	200.00	45.00	170.00		200.00		45.00		290.82
V170200600V5	**170.00**		170.00	200.00	60.00	170.00		200.00		60.00		381.48
V175200420V3*	**175.00**		175.00	200.00	42.00	175.00		200.00		42.00		249.41
V180200400V5	**180.00**		180.00	200.00	40.00	180.00		200.00		40.00		293.72
V180205400V4	**180.00**		180.00	205.00	40.00	180.00		205.00		40.00		278.70
V180210330V3*	**180.00**		180.00	210.00	33.00	180.00		210.00		33.00		278.76
V180210600V5	**180.00**		180.00	210.00	60.00	180.00		210.00		60.00		515.68
V190220450V3*	**190.00**		190.00	220.00	45.00	190.00		220.00		45.00		459.95
V190220600V5	**190.00**		190.00	220.00	60.00	190.00		220.00		60.00		593.07
V200220300V2*	**200.00**		200.00	220.00	30.00	200.00		220.00		30.00		293.45
V200220400V5	**200.00**		200.00	220.00	40.00	200.00		220.00		40.00		352.92
V200230329V2*	**200.00**		200.00	230.00	32.97	200.00		230.00		32.97		278.76
V200230600V5	**200.00**		200.00	230.00	60.00	200.00		230.00		60.00		618.85
V205225195V3*	**205.00**		205.00	225.00	19.50	205.00		225.00		19.50		349.58
V210240421V3	**210.00**		210.00	240.00	42.10	210.00		240.00		42.10		349.58
V220250600V4*	**220.00**		220.00	250.00	60.00	220.00		250.00		60.00		528.17
V220250600V5	**220.00**		220.00	250.00	60.00	220.00		250.00		60.00		413.06
V224254329V2*	**224.00**		224.00	254.00	32.97	224.00		254.00		32.97		352.12
V225255450V3*	**225.00**		225.00	255.00	45.00	225.00		255.00		45.00		390.02
V230260525V4	**230.00**		230.00	260.00	52.50	230.00		260.00		52.50		386.63
V230260600V4*	**230.00**		230.00	260.00	60.00	230.00		260.00		60.00		398.59
V240270450V3*	**240.00**		240.00	270.00	45.00	240.00		270.00		45.00		410.92
V240270600V5	**240.00**		240.00	270.00	60.00	240.00		270.00		60.00		636.66
V250280330V3*	**250.00**		250.00	280.00	33.00	250.00		280.00		33.00		410.84
V250280450V5*	**250.00**		250.00	280.00	45.00	250.00		280.00		45.00		389.12
V250280500V3*	**250.00**		250.00	280.00	50.00	250.00		280.00		50.00		400.31
V260290600V4*	**260.00**		260.00	290.00	60.00	260.00		290.00		60.00		733.45
V270300666V6	**270.00**		270.00	300.00	66.60	270.00		300.00		66.60		419.88
V280310500V3*	**280.00**		280.00	310.00	50.00	280.00		310.00		50.00		549.64

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Rod Diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
V280310600V5*	**280.00**	+ 0.00 - 0.13	280.00	310.00	60.00	280.00	+ 0.00 - 0.13	310.00	+ 0.18 - 0.00	60.00	+ 0.25 - 0.00	769.50
V280315385V3*	**280.00**		280.00	315.00	38.50	280.00		315.00		38.50		479.69
V280315450V4	**280.00**		280.00	315.00	45.00	280.00		315.00		45.00		485.55
V290320508V3	**290.00**		290.00	320.00	50.80	290.00		320.00		50.80		586.90
V300320320V2*	**300.00**		300.00	320.00	32.00	300.00		320.00		32.00		528.17
V300330600V5*	**300.00**		300.00	330.00	60.00	300.00		330.00		60.00		836.97
V310330300V3*	**310.00**		310.00	330.00	30.00	310.00		330.00		30.00		557.53
V310340600V4*	**310.00**		310.00	340.00	60.00	310.00		340.00		60.00		881.80
V320350600V4*	**320.00**		320.00	350.00	60.00	320.00		350.00		60.00		1013.17
V320360540V2*	**320.00**		320.00	360.00	54.00	320.00		360.00		54.00		895.01
V320360600V3*	**320.00**		320.00	360.00	60.00	320.00		360.00		60.00		901.73
V320360630V3*	**320.00**		320.00	360.00	63.00	320.00		360.00		63.00		774.66
V320365550V3*	**320.00**		320.00	365.00	55.00	320.00		365.00		55.00		1085.70
V330360600V4*	**330.00**		330.00	360.00	60.00	330.00		360.00		60.00		1058.78
V340380600V3	**340.00**		340.00	380.00	60.00	340.00		380.00		60.00		1181.20
V350390600V3*	**350.00**		350.00	390.00	60.00	350.00		390.00		60.00		1195.21
V360400600V3*	**360.00**		360.00	400.00	60.00	360.00		400.00		60.00		1384.80
V369400450V3*	**369.00**		369.00	400.00	45.00	369.00		400.00		45.00		1115.44
V400440540V2*	**400.00**		400.00	440.00	54.00	400.00		440.00		54.00		1095.49
V400450750V3*	**400.00**		400.00	450.00	75.00	400.00		450.00		75.00		1793.82
V463500550V3*	**463.00**		463.00	500.00	55.00	463.00		500.00		55.00		1349.78

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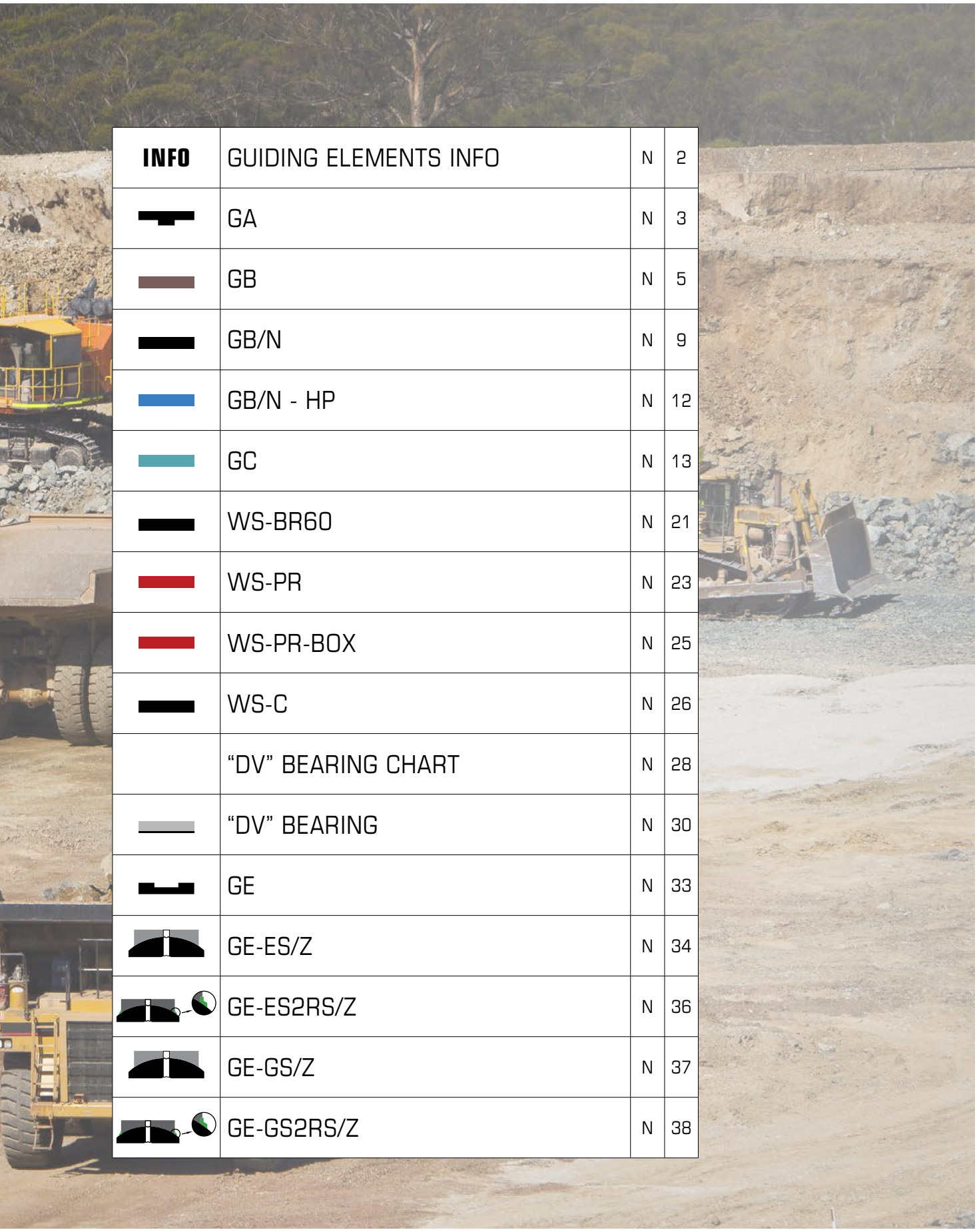
OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace, it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request, please do not hesitate to contact us and we will do our best to help you locate the required part.

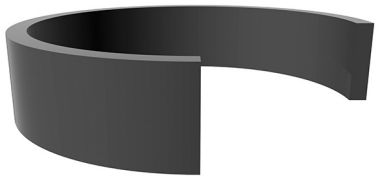


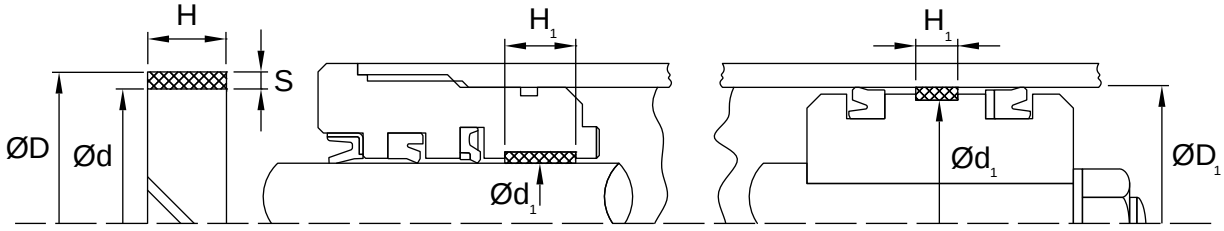




INFO	GUIDING ELEMENTS INFO	N	2
	GA	N	3
	GB	N	5
	GB/N	N	9
	GB/N - HP	N	12
	GC	N	13
	WS-BR60	N	21
	WS-PR	N	23
	WS-PR-BOX	N	25
	WS-C	N	26
	“DV” BEARING CHART	N	28
	“DV” BEARING	N	30
	GE	N	33
	GE-ES/Z	N	34
	GE-ES2RS/Z	N	36
	GE-GS/Z	N	37
	GE-GS2RS/Z	N	38

Guiding Elements Groove Info





Formula for calculating rod wear ring grooves

D1 Min.Groove Dia. = d Max.Rod Dia.
+2 (Max.Wear Ring C/S)
D1 tolerance = **+.080/-.000**

d1 Min.Throat Dia. = [D1 - 2(Min.Wear Ring C/S)] + 2(Min. Radial Clearance of .13).
d1 tolerance = **+.080/-.000**

H1 Groove Lenth = Actual Part Height + .25
H1 tolerance = **+.100/-.000**

NOTES:
1. Rod throat diameter d1 is a new diameter over and above the diameter which is normally called out for the rod seal. Additional diameter clearance is required as noted for the wear ring to function properly. Since a larger clearance gap results. consideration as to the rod seal compounds must be made to avoid rod seal extrusion.

2. Also consider wear ring groove design for small diameter sizes. Installation problems on small size will occur if the groove design is not compensated.

Formula for calculating piston wear ring grooves

d1 Max.Groove Dia. = D1 Min.Bore Dia.
- 2 (Max.Wear Ring C/S)
d1 tolerance = **+.000/-.130**

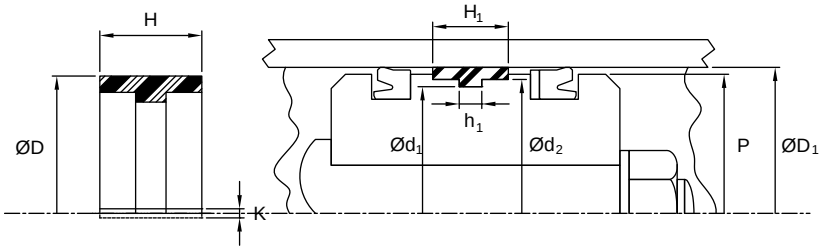
P Max.Piston Dia. = [d1 Min.Groove Dia. + 2(Min.Wear Ring C/S)] - 2(Min. Radial Clearance of .13).
P tolerance = **+.000/-.130**

H1 Groove Lenth = Actual Part Height + .25
H1 tolerance = **+.100/-.000**

NOTES:
1. The piston diameter P will not correspond to diameters called out for the piston seals. Additional clearances are required for wear ring use. Be sure the entire outside diameter of the piston is no larger than P. Be sure the piston seal compound is considered to prevent extrusion of the piston seal with the new increased diameter clearance.



Standard Material	Temperature Range	Surface Speed
Polyamide	-40°F to +230°F (-40°C to +110°C)	<16 ft/s (5 m/s)



GA piston guide rings are open rings with axial pressure relief grooves and a retaining shoulder on the inner diameter made of thermoplastic compounds. They are easy to install, exceptionally wear-resistant and enable simple piston designs.

The **GA** piston guide ring can be installed either chambered or non-chambered

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other size available on request.

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
	D1	Tol.	D	d	H	K	d1 + 00/- 40	d2 + 00/- 10	P + 00/- 10	h1 + 01/- 01	H1 + 20/- 00	
G020014078GA*	**20.00**	+0.08 -0.00	20.00	14.00	7.80	2.00	14.00	17.20	19.65	3.00	8.50	66.94
G022016078GA*	**22.00**		22.00	16.00	7.80	2.00	16.00	19.20	21.65	3.00	8.50	66.94
G025019078GA*	**25.00**		25.00	19.00	7.80	2.00	19.00	22.20	24.65	3.00	8.50	66.94
G028022078GA*	**28.00**		28.00	22.00	7.80	2.00	22.00	25.20	27.65	3.00	8.50	66.94
G030024078GA*	**30.00**		30.00	24.00	7.80	2.00	24.00	27.20	29.65	3.00	8.50	66.94
G032026078GA*	**32.00**		32.00	26.00	7.80	2.00	26.00	29.20	31.65	3.00	8.50	70.95
G035029078GA*	**35.00**		35.00	29.00	7.80	2.00	29.00	32.20	34.65	3.00	8.50	77.92
G036030078GA*	**36.00**		36.00	30.00	7.80	2.00	30.00	33.20	35.65	3.00	8.50	77.92
G040032098GA*	**40.00**		40.00	32.50	9.80	3.00	32.50	36.80	39.60	3.50	10.50	78.98
G042034098GA*	**42.00**		42.00	34.50	9.80	3.00	34.50	38.80	41.60	3.50	10.50	79.20
G045037098GA*	**45.00**		45.00	37.50	9.80	3.00	37.50	41.80	44.60	3.50	10.50	80.06
G050042098GA*	**50.00**		50.00	42.50	9.80	3.00	42.50	46.80	49.60	3.50	10.50	80.32
G055047098GA*	**55.00**		55.00	47.50	9.80	4.00	47.50	51.90	54.60	3.50	10.50	81.39
G056048098GA*	**56.00**		56.00	48.50	9.80	4.00	48.50	52.90	55.60	3.50	10.50	81.93
G058050098GA*	**58.00**		58.00	50.50	9.80	4.00	50.50	54.90	57.60	3.50	10.50	82.73
G060052098GA*	**60.00**		60.00	52.50	9.80	4.00	52.50	56.90	59.60	3.50	10.50	83.00
G063054143GA*	**63.00**		63.00	54.00	14.30	5.00	54.00	59.50	62.50	5.00	15.00	84.34
G065056143GA*	**65.00**		65.00	56.00	14.30	5.00	56.00	61.50	64.50	5.00	15.00	84.34
G070061143GA*	**70.00**		70.00	61.00	14.30	5.00	61.00	66.50	69.50	5.00	15.00	84.34
G075066143GA*	**75.00**		75.00	66.00	14.30	5.00	66.00	71.50	74.50	5.00	15.00	84.34
G080071143GA	**80.00**	+0.10 -0.00	80.00	71.00	14.30	5.00	71.00	76.50	79.50	5.00	15.00	84.34
G085076143GA*	**85.00**		85.00	76.00	14.30	5.00	76.00	81.50	84.50	5.00	15.00	85.67

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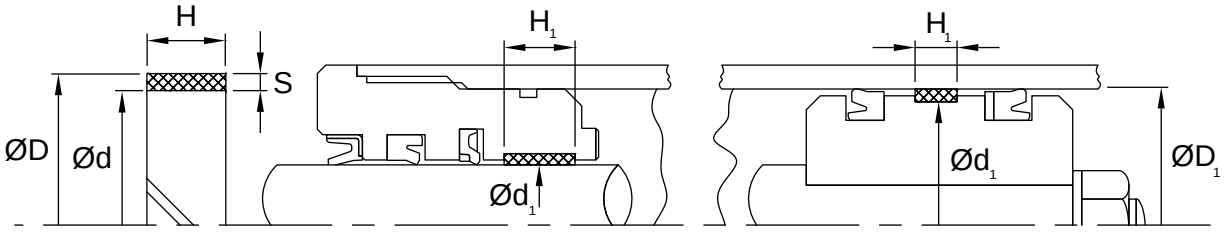
GA series - PA

Ref.Number	Bore Diameter		Nominal Seal Dimensions				Housing Dimensions					$
	D1	Tol.	D	d	H	K	d1 + 00/- 40	d2 + 00/- 10	P + 00/- 10	h1 + 01/- 01	H1 + 20/- 00	
G090081143GA*	**90.00**	+ 0.10 - 0.00	90.00	81.00	14.30	5.00	81.00	86.50	89.50	5.00	15.00	86.47
G095086143GA*	**95.00**		95.00	86.00	14.30	8.00	86.00	91.50	94.40	5.00	15.00	87.02
G100091143GA*	**100.00**		100.00	91.00	14.30	8.00	91.00	96.50	99.40	5.00	15.00	87.82
G105096143GA*	**105.00**		105.00	96.00	14.30	8.00	96.00	101.50	104.40	5.00	15.00	93.71
G110101143GA*	**110.00**		110.00	101.00	14.30	8.00	101.00	106.50	109.40	5.00	15.00	99.85
G115106143GA*	**115.00**		115.00	106.00	14.30	8.00	106.00	111.50	114.40	5.00	15.00	100.41
G120111143GA*	**120.00**		120.00	111.00	14.30	8.00	111.00	116.50	119.40	5.00	15.00	100.41
G125116143GA*	**125.00**		125.00	116.00	14.30	8.00	116.00	121.50	124.40	5.00	15.00	103.08
G130121143GA*	**130.00**		130.00	121.00	14.30	8.00	121.00	126.50	129.40	5.00	15.00	107.10
G135126143GA*	**135.00**		135.00	126.00	14.30	8.00	126.00	131.50	134.40	5.00	15.00	118.26
G140131143GA*	**140.00**		140.00	131.00	14.30	8.00	131.00	136.50	139.40	5.00	15.00	119.81
G150141143GA*	**150.00**		150.00	141.00	14.30	8.00	141.00	146.50	149.40	5.00	15.00	121.21
G160144198GA*	**160.00**		160.00	144.00	19.80	10.00	144.00	152.90	159.30	8.00	20.30	123.96
G170154198GA*	**170.00**		170.00	154.00	19.80	10.00	154.00	162.90	169.30	8.00	20.30	129.32
G180164198GA*	**180.00**	+ 0.13 - 0.00	180.00	164.00	19.80	10.00	164.00	172.90	179.30	8.00	20.30	134.60
G190174198GA*	**190.00**		190.00	174.00	19.80	10.00	174.00	182.90	189.30	8.00	20.30	155.08
G200184198GA*	**200.00**		200.00	184.00	19.80	10.00	184.00	192.90	199.30	8.00	20.30	157.76
G210193245GA*	**210.00**		210.00	193.00	24.50	12.00	193.00	202.50	203.00	8.00	25.00	196.20
G220203245GA*	**220.00**		220.00	203.00	24.50	12.00	203.00	212.50	219.20	8.00	25.00	209.31
G225208245GA*	**225.00**		225.00	208.00	24.50	12.00	208.00	217.50	224.20	8.00	25.00	225.43
G230213245GA*	**230.00**		230.00	213.00	24.50	12.00	213.00	222.50	229.20	8.00	25.00	242.84
G240223245GA*	**240.00**		240.00	223.00	24.50	12.00	223.00	232.50	239.20	8.00	25.00	257.42
G250233245GA*	**250.00**		250.00	233.00	24.50	12.00	223.00	242.50	249.20	8.00	25.00	269.20
G255238245GA*	**255.00**		255.00	238.00	24.50	12.00	238.00	247.50	254.20	8.00	25.00	295.40

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Surface Speed
BR.PTFE	-40°F to +250°F (-40°C to +121°C)	<13 ft/s (4 m/s)



These guiding elements are manufactured from filled PTFE compounds. They are designed to eliminate scoring in hydraulic and pneumatic applications by preventing metal-to-metal contact. Easy to install and economical, they can be used in reciprocating, rotary or oscillating applications.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G050045056GB*	**50.00**	**45.00**	50.00	5.60	2.50	17.58
G050045150GB*	**50.00**	**45.00**	50.00	15.00	2.50	21.39
G050045097GB*	**50.00**	**45.00**	50.00	9.70	2.50	14.20
G055050056GB*	**55.00**	**50.00**	55.00	5.60	2.50	10.07
G055050097GB*	**55.00**	**50.00**	55.00	9.70	2.50	15.62
G055050150GB*	**55.00**	**50.00**	55.00	15.00	2.50	23.53
G058050095GB*	**58.00**	**50.00**	58.00	9.50	4.00	22.05
G060055056GB*	**60.00**	**55.00**	60.00	5.60	2.50	10.98
G060055097GB*	**60.00**	**55.00**	60.00	9.70	2.50	17.04
G060055150GB*	**60.00**	**55.00**	60.00	15.00	2.50	25.67
G061056056GB*	**61.00**	**56.00**	61.00	5.60	2.50	11.17
G061056097GB*	**61.00**	**56.00**	61.00	9.70	2.50	17.32
G061056150GB*	**61.00**	**56.00**	61.00	15.00	2.50	26.10
G063058056GB*	**63.00**	**58.00**	63.00	5.60	2.50	11.53
G063058097GB*	**63.00**	**58.00**	63.00	9.70	2.50	17.89
G063058150GB*	**63.00**	**58.00**	63.00	15.00	2.50	26.95
G065060056GB*	**65.00**	**60.00**	65.00	5.60	2.50	11.90
G065060097GB	**65.00**	**60.00**	65.00	9.70	2.50	17.33
G065060150GB*	**65.00**	**60.00**	65.00	15.00	2.50	27.81
G068063056GB*	**68.00**	**63.00**	68.00	5.60	2.50	12.45
G068063097GB*	**68.00**	**63.00**	68.00	9.70	2.50	19.31
G068063150GB*	**68.00**	**63.00**	68.00	15.00	2.50	29.09

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G070062120GB/GF15*	**70.00**	**62.00**	70.00	12.00	4.00	51.28
G070065056GB*	**70.00**	**65.00**	70.00	5.60	2.50	12.82
G070065097GB	**70.00**	**65.00**	70.00	9.70	2.50	19.88
G070065150GB*	**70.00**	**65.00**	70.00	15.00	2.50	29.95
G075067040GB/VPTFE	**75.00**	**67.00**	75.00	4.00	4.00	25.35
G075070056GB*	**75.00**	**70.00**	75.00	5.60	2.50	13.73
G075070097GB	**75.00**	**70.00**	75.00	9.70	2.50	21.30
G075070150GB*	**75.00**	**70.00**	75.00	15.00	2.50	32.08
G078070097GB*	**78.00**	**70.00**	78.00	9.70	4.00	26.46
G080072060GB*	**80.00**	**72.00**	80.00	6.00	4.00	23.66
G080072120GB	**80.00**	**72.00**	80.00	12.00	4.00	38.17
G080074040GB*	**80.00**	**74.00**	80.00	4.00	3.00	33.18
G080075056GB*	**80.00**	**75.00**	80.00	5.60	2.50	14.65
G080075095GB	**80.00**	**75.00**	80.00	9.50	2.50	23.18
G080075097GB	**80.00**	**75.00**	80.00	9.70	2.50	22.72
G080075150GB*	**80.00**	**75.00**	80.00	15.00	2.50	34.22
G085077060GB*	**85.00**	**77.00**	85.00	6.00	4.00	44.79
G085077150GB/GF15*	**85.00**	**77.00**	85.00	15.00	4.00	36.22
G085080095GB	**85.00**	**80.00**	85.00	9.50	2.50	24.15
G085080097GB	**85.00**	**80.00**	85.00	9.70	2.50	24.14
G085080150GB*	**85.00**	**80.00**	85.00	15.00	2.50	36.36
G090085097GB	**90.00**	**85.00**	90.00	9.70	2.50	34.30

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GB series - BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G090085097GB/GF15*	**90.00**	**85.00**	90.00	9.70	2.50	53.26
G090085150GB*	**90.00**	**85.00**	90.00	15.00	2.50	38.50
G095087060GB	**95.00**	**87.00**	95.00	6.00	4.00	26.21
G095090097GB	**95.00**	**90.00**	95.00	9.70	2.50	26.98
G095090150GB*	**95.00**	**90.00**	95.00	15.00	2.50	40.64
G100092060GB	**100.00**	**92.00**	100.00	6.00	4.00	39.69
G100092080GB*	**100.00**	**92.00**	100.00	8.00	4.00	49.42
G100092097GB	**100.00**	**92.00**	100.00	9.70	4.00	51.55
G100095056GB*	**100.00**	**95.00**	100.00	5.60	2.50	18.31
G100095097GB	**100.00**	**95.00**	100.00	9.70	2.50	28.40
G100095150GB	**100.00**	**95.00**	100.00	15.00	2.50	42.78
G100095300GB*	**100.00**	**95.00**	100.00	30.00	2.50	117.87
G105097060GB	**105.00**	**97.00**	105.00	6.00	4.00	35.20
G105099040GB	**105.00**	**99.00**	105.00	4.00	3.00	20.57
G105100097GB*	**105.00**	**100.00**	105.00	9.70	2.50	29.82
G105100150GB	**105.00**	**100.00**	105.00	15.00	2.50	44.92
G110102050GB	**110.00**	**102.00**	110.00	5.00	4.00	49.89
G110102060GB	**110.00**	**102.00**	110.00	6.00	4.00	56.40
G110102080GB*	**110.00**	**102.00**	110.00	8.00	4.00	40.87
G110102150GB	**110.00**	**102.00**	110.00	15.00	4.00	98.37
G110104040GB/GF15	**110.00**	**104.00**	110.00	4.00	3.00	35.68
G110105097GB	**110.00**	**105.00**	110.00	9.70	2.50	31.23
G110105150GB*	**110.00**	**105.00**	110.00	15.00	2.50	47.06
G115107060GB	**115.00**	**107.00**	115.00	6.00	4.00	57.20
G115107080GB*	**115.00**	**107.00**	115.00	8.00	4.00	66.40
G115110097GB*	**115.00**	**110.00**	115.00	9.70	2.50	32.65
G115110150GB*	**115.00**	**110.00**	115.00	15.00	2.50	49.20
G120112050GB	**120.00**	**112.00**	120.00	5.00	4.00	50.23
G120112060GB	**120.00**	**112.00**	120.00	6.00	4.00	52.20
G120112080GB	**120.00**	**112.00**	120.00	8.00	4.00	68.26
G120112097GB	**120.00**	**112.00**	120.00	9.70	4.00	40.20
G120115097GB	**120.00**	**115.00**	120.00	9.70	2.50	34.07
G120115150GB	**120.00**	**115.00**	120.00	15.00	2.50	60.71
G125117060GB	**125.00**	**117.00**	120.00	6.00	4.00	81.20
G125117080GB	**125.00**	**117.00**	125.00	8.00	4.00	52.60
G125117095GB*	**125.00**	**117.00**	125.00	9.50	4.00	53.60
G125117097GB	**125.00**	**117.00**	125.00	9.70	4.00	55.45
G125117150GB	**125.00**	**117.00**	125.00	15.00	4.00	33.08
G125120056GB*	**125.00**	**120.00**	125.00	5.60	2.50	22.88
G125120095GB*	**125.00**	**120.00**	125.00	9.50	2.50	35.51
G125120097GB	**125.00**	**120.00**	125.00	9.70	2.50	46.20
G125120150GB	**125.00**	**120.00**	125.00	15.00	2.50	53.47
G127122097GB*	**127.00**	**122.00**	127.00	9.70	2.50	34.64
G130122050GB	**130.00**	**122.00**	130.00	5.00	4.00	49.16
G130122060GB	**130.00**	**122.00**	130.00	6.00	4.00	50.02
G130122080GB	**130.00**	**122.00**	130.00	8.00	4.00	62.40

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G130122097GB	**130.00**	**122.00**	130.00	9.70	4.00	57.66
G130125080GB*	**130.00**	**125.00**	130.00	8.00	2.50	31.07
G130125097GB*	**130.00**	**125.00**	130.00	9.70	2.50	36.91
G130125150GB*	**130.00**	**125.00**	130.00	15.00	2.50	55.61
G135127060GB	**135.00**	**127.00**	135.00	6.00	4.00	68.20
G135127080GB	**135.00**	**127.00**	135.00	8.00	4.00	69.45
G135127097GB	**135.00**	**127.00**	135.00	9.70	4.00	81.20
G135130097GB*	**135.00**	**130.00**	135.00	9.70	2.50	38.33
G135130150GB	**135.00**	**130.00**	135.00	15.00	2.50	61.40
G135130150GB/GF15*	**135.00**	**130.00**	135.00	15.00	2.50	61.42
G140132080GB	**140.00**	**132.00**	140.00	8.00	4.00	71.30
G140132090GB	**140.00**	**132.00**	140.00	9.00	4.00	57.27
G140132097GB	**140.00**	**132.00**	140.00	9.70	4.00	81.30
G140135097GB	**140.00**	**135.00**	140.00	9.70	2.50	39.75
G140135150GB*	**140.00**	**135.00**	140.00	15.00	2.50	59.89
G145137080GB	**145.00**	**137.00**	145.00	8.00	4.00	62.20
G145137097GB	**145.00**	**137.00**	145.00	9.70	4.00	91.20
G145140095GB*	**145.00**	**140.00**	145.00	9.50	2.50	41.20
G145140097GB*	**145.00**	**140.00**	145.00	9.70	2.50	41.17
G145140150GB*	**145.00**	**140.00**	145.00	15.00	2.50	62.03
G145140200GB	**145.00**	**140.00**	145.00	20.00	2.50	80.72
G145140200GB/GF15*	**145.00**	**140.00**	145.00	20.00	2.50	92.40
G145140250GB*	**145.00**	**140.00**	145.00	25.00	2.50	101.31
G150142080GB	**150.00**	**142.00**	150.00	8.00	4.00	80.24
G150142097GB	**150.00**	**142.00**	150.00	9.70	4.00	92.60
G150145097GB	**150.00**	**145.00**	150.00	9.70	2.50	42.59
G150145150GB*	**150.00**	**145.00**	150.00	15.00	2.50	64.17
G150145250GB*	**150.00**	**145.00**	150.00	25.00	2.50	104.80
G155150097GB*	**155.00**	**150.00**	155.00	9.70	2.50	44.01
G155150150GB*	**155.00**	**150.00**	155.00	15.00	2.50	66.31
G155150200GB	**155.00**	**150.00**	155.00	20.00	2.50	86.29
G155150200GB/GF15	**155.00**	**150.00**	155.00	20.00	2.50	97.34
G155150250GB*	**155.00**	**150.00**	155.00	25.00	2.50	108.29
G160152060GB/GF15*	**160.00**	**152.00**	160.00	6.00	4.00	71.20
G160152080GB	**160.00**	**152.00**	160.00	8.00	4.00	69.40
G160152090GB	**160.00**	**152.00**	160.00	9.00	4.00	68.56
G160152097GB	**160.00**	**152.00**	160.00	9.70	4.00	89.40
G160155097GB*	**160.00**	**155.00**	160.00	9.70	2.50	45.43
G160155150GB*	**160.00**	**155.00**	160.00	15.00	2.50	68.45
G160155250GB*	**160.00**	**155.00**	160.00	25.00	2.50	111.79
G165157060GB/GF15	**165.00**	**157.00**	165.00	6.00	4.00	124.60
G165157097GB	**165.00**	**157.00**	165.00	9.70	4.00	89.40
G165160097GB*	**165.00**	**160.00**	165.00	9.70	2.50	79.87
G165160150GB*	**165.00**	**160.00**	165.00	15.00	2.50	70.59
G165160200GB/GF15	**165.00**	**160.00**	165.00	20.00	2.50	85.13
G165160250GB*	**165.00**	**160.00**	165.00	25.00	2.50	115.28

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G170162080GB	**170.00**	**162.00**	170.00	8.00	4.00	66.37
G170162090GB	**170.00**	**162.00**	170.00	9.00	4.00	72.99
G170162097GB	**170.00**	**162.00**	170.00	9.70	4.00	101.40
G170165097GB*	**170.00**	**165.00**	170.00	9.70	2.50	48.27
G170165150GB*	**170.00**	**165.00**	170.00	15.00	2.50	72.73
G170165250GB*	**170.00**	**165.00**	170.00	25.00	2.50	118.77
G175167060GB/GF15*	**175.00**	**167.00**	175.00	6.00	4.00	124.30
G175170056GB*	**175.00**	**170.00**	175.00	5.60	2.50	32.04
G175170097GB*	**175.00**	**170.00**	175.00	9.70	2.50	49.69
G175170150GB*	**175.00**	**170.00**	175.00	15.00	2.50	74.86
G175170200GB	**175.00**	**170.00**	175.00	20.00	2.50	105.96
G175170200GB/GF15*	**175.00**	**170.00**	175.00	20.00	2.50	102.45
G175170250GB*	**175.00**	**170.00**	175.00	25.00	2.50	122.27
G180172060GB/GF15	**180.00**	**172.00**	180.00	6.00	4.00	119.20
G180172080GB	**180.00**	**172.00**	180.00	8.00	4.00	79.40
G180172090GB	**180.00**	**172.00**	180.00	9.00	4.00	81.40
G180172097GB	**180.00**	**172.00**	180.00	9.70	4.00	85.60
G180175097GB*	**180.00**	**175.00**	180.00	9.70	2.50	51.11
G180175150GB*	**180.00**	**175.00**	180.00	15.00	2.50	77.00
G180175250GB*	**180.00**	**175.00**	180.00	25.00	2.50	125.76
G185180097GB*	**185.00**	**180.00**	185.00	9.70	2.50	52.53
G185180150GB*	**185.00**	**180.00**	185.00	15.00	2.50	79.14
G185180250GB	**185.00**	**180.00**	185.00	25.00	2.50	129.26
G185180250GB/GF15	**185.00**	**180.00**	185.00	25.00	2.50	131.80
G190182080GB	**190.00**	**182.00**	190.00	8.00	4.00	98.60
G190182080GB/GF15*	**190.00**	**182.00**	190.00	8.00	4.00	96.40
G190182090GB	**190.00**	**182.00**	190.00	9.00	4.00	61.73
G190182095GB	**190.00**	**182.00**	190.00	9.50	4.00	101.20
G190182097GB	**190.00**	**182.00**	190.00	9.70	4.00	109.40
G190185040GB	**190.00**	**185.00**	190.00	4.00	2.50	27.36
G190185097GB*	**190.00**	**185.00**	190.00	9.70	2.50	53.95
G190185150GB*	**190.00**	**185.00**	190.00	15.00	2.50	81.28
G190185250GB*	**190.00**	**185.00**	190.00	25.00	2.50	132.75
G195190097GB*	**195.00**	**190.00**	195.00	9.70	2.50	55.37
G195190150GB*	**195.00**	**190.00**	195.00	15.00	2.50	83.42
G195190250GB*	**195.00**	**190.00**	195.00	25.00	2.50	136.24
G200192080GB*	**200.00**	**192.00**	200.00	8.00	4.00	76.40
G200192090GB	**200.00**	**192.00**	200.00	9.00	4.00	84.80
G200192097GB	**200.00**	**192.00**	200.00	9.70	4.00	91.40
G200192097GB/GF15	**200.00**	**192.00**	200.00	9.70	4.00	98.00
G200195097GB*	**200.00**	**195.00**	200.00	9.70	2.50	74.20
G200195150GB*	**200.00**	**195.00**	200.00	15.00	2.50	85.56
G200195200GB*	**200.00**	**195.00**	200.00	20.00	2.50	144.98
G200195250GB*	**200.00**	**195.00**	200.00	25.00	2.50	139.74
G200197200GB*	**200.00**	**197.00**	200.00	20.00	1.50	91.40
G200197200GB/GF15*	**200.00**	**197.00**	200.00	20.00	1.50	188.44

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G205200150GB*	**205.00**	**200.00**	205.00	15.00	2.50	87.70
G205200250GB	**205.00**	**200.00**	205.00	25.00	2.50	143.23
G205200250GB/GF15*	**205.00**	**200.00**	205.00	25.00	2.50	142.99
G210202080GB	**210.00**	**202.00**	210.00	8.00	4.00	91.40
G210202090GB*	**210.00**	**202.00**	210.00	9.00	4.00	91.89
G210202097GB	**210.00**	**202.00**	210.00	9.70	4.00	91.39
G210205150GB*	**210.00**	**205.00**	210.00	15.00	2.50	89.84
G210205250GB*	**210.00**	**205.00**	210.00	25.00	2.50	146.72
G215207097GB	**215.00**	**207.00**	215.00	9.70	4.00	121.90
G215210150GB*	**215.00**	**210.00**	215.00	15.00	2.50	91.98
G215210250GB*	**215.00**	**210.00**	215.00	25.00	2.50	150.22
G215210250GB/GF15*	**215.00**	**210.00**	215.00	25.00	2.50	155.55
G220212080GB*	**220.00**	**212.00**	220.00	8.00	4.00	161.82
G220212090GB	**220.00**	**212.00**	220.00	9.00	4.00	101.40
G220215097GB*	**220.00**	**215.00**	220.00	9.70	2.50	49.98
G220215150GB*	**220.00**	**215.00**	220.00	15.00	2.50	75.29
G220215250GB*	**220.00**	**215.00**	220.00	25.00	2.50	122.97
G225217080GB/GF15	**225.00**	**217.00**	225.00	8.00	4.00	124.74
G225217097GB	**225.00**	**217.00**	225.00	9.70	4.00	89.40
G225220150GB*	**225.00**	**220.00**	225.00	15.00	2.50	77.00
G225220250GB*	**225.00**	**220.00**	225.00	25.00	2.50	125.76
G225220250GB/GF15	**225.00**	**220.00**	225.00	25.00	2.50	162.80
G230222095GB*	**230.00**	**222.00**	230.00	9.50	4.00	131.76
G230222150GB*	**230.00**	**222.00**	230.00	15.00	4.00	165.91
G230225150GB*	**230.00**	**225.00**	230.00	15.00	2.50	78.71
G230225250GB*	**230.00**	**225.00**	230.00	25.00	2.50	128.56
G235223120GB	**235.00**	**223.00**	235.00	12.00	6.00	242.80
G235230150GB*	**235.00**	**230.00**	235.00	15.00	2.50	80.43
G235230250GB*	**235.00**	**230.00**	235.00	25.00	2.50	131.35
G235230250GB/GF15	**235.00**	**230.00**	235.00	25.00	2.50	149.20
G238230097GB*	**238.00**	**230.00**	238.00	9.70	4.00	139.42
G240232097GB	**240.00**	**232.00**	240.00	9.70	4.00	124.80
G240232145GB*	**240.00**	**232.00**	240.00	14.50	4.00	74.60
G240232150GB*	**240.00**	**232.00**	240.00	15.00	4.00	142.80
G240235150GB*	**240.00**	**235.00**	240.00	15.00	2.50	82.14
G240235250GB*	**240.00**	**235.00**	240.00	25.00	2.50	134.15
G245240150GB*	**245.00**	**240.00**	245.00	15.00	2.50	83.85
G245240250GB*	**245.00**	**240.00**	245.00	25.00	2.50	136.94
G250242097GB	**250.00**	**242.00**	250.00	9.70	4.00	98.40
G250242145GB	**250.00**	**242.00**	250.00	14.50	4.00	97.80
G250242150GB*	**250.00**	**242.00**	250.00	15.00	4.00	149.60
G250242150GB/GF15*	**250.00**	**242.00**	250.00	15.00	4.00	132.26
G250245097GB*	**250.00**	**245.00**	250.00	9.70	2.50	56.79
G250245150GB*	**250.00**	**245.00**	250.00	15.00	2.50	85.56
G250245250GB*	**250.00**	**245.00**	250.00	25.00	2.50	139.74
G255242117GB	**255.00**	**242.00**	255.00	11.70	6.50	245.70

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GB series - BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G255250150GB*	**255.00**	**250.00**	255.00	15.00	2.50	87.27
G255250250GB*	**255.00**	**250.00**	255.00	25.00	2.50	142.53
G255250250GB/GF15	**255.00**	**250.00**	255.00	25.00	2.50	151.89
G260252080GB	**260.00**	**252.00**	260.00	8.00	4.00	161.44
G260252097GB*	**260.00**	**252.00**	260.00	9.70	4.00	121.80
G260252150GB*	**260.00**	**252.00**	260.00	15.00	4.00	171.54
G260255150GB*	**260.00**	**255.00**	260.00	15.00	2.50	88.98
G260255250GB*	**260.00**	**255.00**	260.00	25.00	2.50	145.32
G265260150GB*	**265.00**	**260.00**	265.00	15.00	2.50	90.69
G265260250GB	**265.00**	**260.00**	265.00	25.00	2.50	148.12
G265260250GB/GF15*	**265.00**	**260.00**	265.00	25.00	2.50	221.40
G270265150GB*	**270.00**	**265.00**	270.00	15.00	2.50	92.40
G270265250GB*	**270.00**	**265.00**	270.00	25.00	2.50	150.91
G275270150GB*	**275.00**	**270.00**	275.00	15.00	2.50	94.12
G275270250GB*	**275.00**	**270.00**	275.00	25.00	2.50	153.71
G275270250GB/GF15*	**275.00**	**270.00**	275.00	25.00	2.50	289.21
G280272095GB	**280.00**	**272.00**	280.00	9.50	4.00	109.21
G280272145GB	**280.00**	**272.00**	280.00	14.50	4.00	89.40
G280272150GB*	**280.00**	**272.00**	280.00	15.00	4.00	139.60
G280272150GB/GF15*	**280.00**	**272.00**	280.00	15.00	4.00	121.40
G280272250GB*	**280.00**	**272.00**	280.00	25.00	4.00	215.66
G280275150GB*	**280.00**	**275.00**	280.00	15.00	2.50	83.85
G280275250GB*	**280.00**	**275.00**	280.00	25.00	2.50	136.94
G285280150GB*	**285.00**	**280.00**	285.00	15.00	2.50	85.35
G285280250GB*	**285.00**	**280.00**	285.00	25.00	2.50	85.35
G288280250GB*	**288.00**	**280.00**	288.00	25.00	4.00	221.82
G290285150GB*	**290.00**	**285.00**	290.00	15.00	2.50	86.84
G290285250GB*	**290.00**	**285.00**	290.00	25.00	2.50	141.83
G295290150GB*	**295.00**	**290.00**	295.00	15.00	2.50	88.34
G295290250GB*	**295.00**	**290.00**	295.00	25.00	2.50	144.28
G300292097GB*	**300.00**	**292.00**	300.00	9.70	4.00	174.80
G300292195GB*	**300.00**	**292.00**	300.00	19.50	4.00	179.40
G300292200GB*	**300.00**	**292.00**	300.00	20.00	4.00	190.27
G300295150GB*	**300.00**	**295.00**	300.00	15.00	2.50	89.84
G300295250GB*	**300.00**	**295.00**	300.00	25.00	2.50	146.72
G305300097GB*	**305.00**	**300.00**	305.00	9.70	2.70	104.22
G305300250GB*	**305.00**	**300.00**	305.00	25.00	2.50	149.17
G305300250GB/GF15	**305.00**	**300.00**	305.00	25.00	2.50	245.27
G308300097GB	**308.00**	**300.00**	308.00	9.70	4.00	101.90
G310302097GB*	**310.00**	**302.00**	310.00	9.70	4.00	110.40
G310302200GB*	**310.00**	**302.00**	310.00	20.00	4.00	229.80
G310305250GB*	**310.00**	**305.00**	310.00	25.00	2.50	151.61
G315310250GB*	**315.00**	**310.00**	315.00	25.00	2.50	154.06
G320312097GB	**320.00**	**312.00**	320.00	9.70	4.00	118.10
G320312250GB*	**320.00**	**312.00**	320.00	25.00	4.00	246.47
G320315150GB*	**320.00**	**315.00**	320.00	15.00	2.50	95.83

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G320315250GB*	**320.00**	**315.00**	320.00	25.00	2.50	156.50
G325320150GB*	**325.00**	**320.00**	325.00	15.00	2.50	97.32
G325320250GB*	**325.00**	**320.00**	325.00	25.00	2.50	158.95
G328320250GB*	**328.00**	**320.00**	328.00	25.00	4.00	252.63
G330322095GB	**330.00**	**322.00**	330.00	9.50	4.00	136.07
G330322097GB	**330.00**	**322.00**	330.00	9.70	4.00	128.79
G330325250GB*	**330.00**	**325.00**	330.00	25.00	2.50	161.39
G335330250GB*	**335.00**	**330.00**	335.00	25.00	2.50	163.84
G340332250GB/GF15	**340.00**	**332.00**	340.00	25.00	4.00	264.79
G340335250GB*	**340.00**	**335.00**	340.00	25.00	2.50	166.28
G345340250GB*	**345.00**	**340.00**	345.00	25.00	2.50	168.73
G345340250GB/GF15*	**345.00**	**340.00**	345.00	25.00	2.50	376.12
G350338100GB	**350.00**	**338.00**	350.00	10.00	6.00	369.70
G350342095GB*	**350.00**	**342.00**	350.00	9.50	4.00	173.36
G350342097GB*	**350.00**	**342.00**	350.00	9.70	4.00	189.05
G350345250GB*	**350.00**	**345.00**	350.00	25.00	2.50	171.18
G355350250GB*	**355.00**	**350.00**	355.00	25.00	2.50	173.62
G360352150GB*	**360.00**	**352.00**	360.00	15.00	4.00	142.20
G360352250GB	**360.00**	**352.00**	360.00	25.00	4.00	277.28
G360355150GB*	**360.00**	**355.00**	360.00	15.00	2.50	107.81
G360355250GB*	**360.00**	**355.00**	360.00	25.00	2.50	176.07
G365360150GB*	**365.00**	**360.00**	365.00	15.00	2.50	109.30
G365360250GB*	**365.00**	**360.00**	365.00	25.00	2.50	178.51
G368360250GB*	**368.00**	**360.00**	368.00	25.00	4.00	283.44
G370365250GB*	**370.00**	**365.00**	370.00	25.00	2.50	180.96
G375370250GB*	**375.00**	**370.00**	375.00	25.00	2.50	183.40
G380375250GB*	**380.00**	**375.00**	380.00	25.00	2.50	185.85
G385380250GB*	**385.00**	**380.00**	385.00	25.00	2.50	188.29
G390382250GB/GF15*	**390.00**	**382.00**	390.00	25.00	4.00	509.87
G390385250GB*	**390.00**	**385.00**	390.00	25.00	2.50	190.74
G395390250GB*	**395.00**	**390.00**	395.00	25.00	2.50	193.18
G400392097GB	**400.00**	**392.00**	400.00	9.70	4.00	132.34
G400392250GB*	**400.00**	**392.00**	400.00	25.00	4.00	308.09
G400395150GB*	**400.00**	**395.00**	400.00	15.00	2.50	119.78
G400395250GB*	**400.00**	**395.00**	400.00	25.00	2.50	195.63
G405400250GB*	**405.00**	**400.00**	405.00	25.00	2.50	198.07
G410405250GB*	**410.00**	**405.00**	410.00	25.00	2.50	200.52
G415410250GB*	**415.00**	**410.00**	415.00	25.00	2.50	202.97
G420412097GB	**420.00**	**412.00**	420.00	9.70	4.00	216.88
G420412250GB/GF15	**420.00**	**412.00**	420.00	25.00	4.00	457.44
G420415250GB*	**420.00**	**415.00**	420.00	25.00	2.50	205.41
G425417095GB	**425.00**	**417.00**	425.00	9.50	4.00	189.08
G425420250GB*	**425.00**	**420.00**	425.00	25.00	2.50	207.86
G430425250GB*	**430.00**	**425.00**	430.00	25.00	2.50	210.30
G435430250GB*	**435.00**	**430.00**	435.00	25.00	2.50	212.75
G440432150GB*	**440.00**	**432.00**	440.00	15.00	4.00	175.84

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

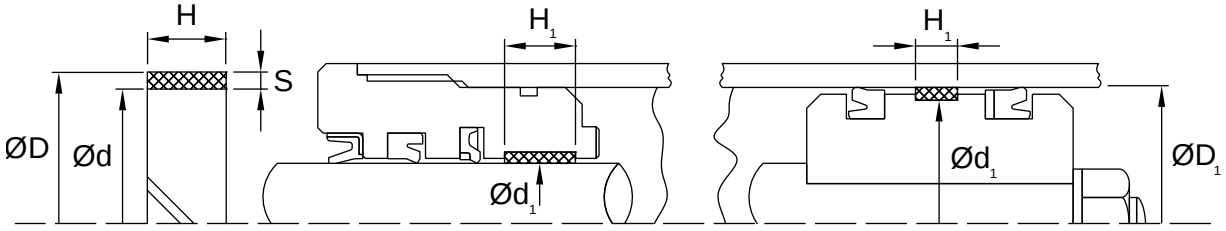
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G440435250GB*	**440.00**	**435.00**	440.00	25.00	2.50	215.19
G445440250GB*	**445.00**	**440.00**	445.00	25.00	2.50	217.64
G450442250GB*	**450.00**	**442.00**	450.00	25.00	4.00	346.60
G450445150GB*	**450.00**	**445.00**	450.00	15.00	2.50	134.76
G450445250GB*	**450.00**	**445.00**	450.00	25.00	2.50	220.08
G455450250GB*	**455.00**	**450.00**	455.00	25.00	2.50	222.53
G460455250GB*	**460.00**	**455.00**	460.00	25.00	2.50	224.97
G465460250GB*	**465.00**	**460.00**	465.00	25.00	2.50	227.42
G470465250GB*	**470.00**	**465.00**	470.00	25.00	2.50	229.86

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G475470250GB*	**475.00**	**470.00**	475.00	25.00	2.50	232.31
G480472250GB/GF15*	**480.00**	**472.00**	480.00	25.00	4.00	564.70
G480475250GB*	**480.00**	**475.00**	480.00	25.00	2.50	234.76
G485480250GB*	**485.00**	**480.00**	485.00	25.00	2.50	237.20
G490485250GB*	**490.00**	**485.00**	490.00	25.00	2.50	239.65
G495490250GB*	**495.00**	**490.00**	495.00	25.00	2.50	242.09
G500492250GB*	**500.00**	**492.00**	500.00	25.00	4.00	385.11
G500495150GB*	**500.00**	**495.00**	500.00	15.00	2.50	149.73
G500495250GB*	**500.00**	**495.00**	500.00	25.00	2.50	244.54

GB/N - Guiding Elements - Metric



Standard Material	Temperature Range	Surface Speed
GF.Nylon	-40°F to +275°F (-40°C to +135°C)	<3 ft/s (0.9 m/s)



Similar in function to the **GB-style**. these glass-filled wear bands are manufactured out of glass-filled Nylon material and are typically suited for heavy-duty applications such as hydraulic cylinders.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G033030146GB/N*	**33.00**	**30.00**	30.00	14.60	1.50	10.72
G035031080GB/N	**35.00**	**31.00**	35.00	8.00	2.00	9.82
G038035146GB/N*	**38.00**	**35.00**	38.00	14.60	1.50	23.27

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G038035250GB/N*	**38.00**	**35.00**	38.00	25.00	1.50	23.27
G045040097GB/N*	**45.00**	**40.00**	45.00	9.70	2.50	24.60
G048045250GB/N	**48.00**	**45.00**	48.00	25.00	1.50	25.27

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GB/N series - GF.NYLON

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G050045097GB/N*	**50.00**	**45.00**	50.00	9.70	2.50	32.60
G053050245GB/N	**53.00**	**50.00**	53.00	24.75	1.50	39.06
G056050050GB/N	**56.00**	**49.76**	56.00	5.00	3.12	17.09
G056050300GB/N*	**56.00**	**50.00**	56.00	30.00	3.00	44.58
G060055097GB/N*	**60.00**	**55.00**	60.00	9.70	2.50	32.99
G060055150GB/N	**60.00**	**55.00**	60.00	15.00	2.50	35.15
G060056098GB/N*	**60.00**	**56.00**	60.00	9.80	2.00	21.46
G061056097GB/N*	**61.00**	**56.00**	61.00	9.70	2.50	22.99
G063058097GB/N*	**63.00**	**58.00**	63.00	9.70	2.50	23.80
G063060248GB/N*	**63.00**	**60.00**	63.00	24.80	1.50	24.99
G065059148GB/N*	**65.00**	**58.60**	65.00	14.80	3.20	25.75
G065060097GB/N*	**65.00**	**60.00**	65.00	9.70	2.50	25.99
G068065250GB/N	**68.00**	**65.00**	68.00	25.00	1.50	25.28
G070064066GB/N	**70.00**	**64.00**	70.00	6.60	3.00	19.58
G070064100GB/N-1	**70.00**	**63.76**	70.00	10.00	3.12	4.88
G070064148GB/N*	**70.00**	**64.60**	70.00	14.80	2.70	23.45
G070065069GB/N	**70.00**	**65.00**	70.00	6.90	2.50	10.96
G070065097GB/N	**70.00**	**65.00**	70.00	9.70	2.50	18.55
G078075247GB/N*	**78.00**	**75.00**	78.00	24.75	1.50	28.83
G080073060GB/N	**80.00**	**73.76**	80.00	6.00	3.12	30.38
G080073100GB/N	**80.00**	**73.76**	80.00	10.00	3.12	28.14
G080074300GB/N*	**80.00**	**73.60**	80.00	30.00	3.20	25.52
G080075060GB/N	**80.00**	**75.00**	80.00	6.00	2.50	27.17
G080075097GB/N	**80.00**	**75.00**	80.00	9.70	2.50	19.85
G080075200GB/N	**80.00**	**75.00**	80.00	20.00	2.50	34.56
G081075370GB/N	**81.00**	**75.00**	81.00	37.00	3.00	34.73
G085079300GB/N*	**85.00**	**79.00**	85.00	30.00	3.00	31.64
G085079300GB/N-1	**85.00**	**78.60**	85.00	30.00	3.20	31.64
G088085250GB/N	**88.00**	**85.00**	88.00	25.00	1.50	40.83
G090081125GB/N*	**90.00**	**81.00**	90.00	12.50	4.50	39.34
G090082060GB/N*	**90.00**	**82.00**	90.00	6.00	4.00	31.56
G090084250GB/N	**90.00**	**84.00**	90.00	25.00	3.00	23.46
G090084300GB/N	**90.00**	**84.00**	90.00	30.00	3.00	29.40
G090085097GB/N	**90.00**	**85.00**	90.00	9.70	2.50	17.51
G093090250GB/N	**93.00**	**90.00**	93.00	25.00	1.50	54.77
G095086125GB/N*	**95.00**	**86.00**	95.00	12.50	4.50	56.73
G096090380GB/N	**96.00**	**90.00**	96.00	38.00	3.00	61.87
G100094060GB/N	**100.00**	**94.00**	100.00	6.00	3.00	27.29
G100094125GB/N	**100.00**	**94.00**	100.00	12.50	3.00	36.95
G100094225GB/N	**100.00**	**94.00**	100.00	22.50	3.00	39.25
G100094250GB/N	**100.00**	**94.00**	100.00	25.00	3.00	23.46
G100094282GB/N	**100.00**	**93.60**	100.00	28.20	3.20	33.43
G100094300GB/N	**100.00**	**94.00**	100.00	30.00	3.00	37.67
G100095250GB/N	**100.00**	**95.00**	100.00	25.00	2.50	49.44
G101095400GB/N	**101.00**	**95.00**	101.00	40.00	3.00	68.36
G105099250GB/N	**105.00**	**99.00**	105.00	25.00	3.00	30.16

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G110101125GB/N	**110.00**	**101.00**	110.00	12.50	4.50	57.95
G110102060GB/N	**110.00**	**102.00**	110.00	6.00	4.00	32.02
G110104060GB/N	**110.00**	**104.00**	110.00	6.00	3.00	29.09
G110104110GB/N*	**110.00**	**104.00**	110.00	11.00	3.00	29.43
G110104125GB/N	**110.00**	**104.00**	110.00	12.50	3.00	27.66
G110104150GB/N	**110.00**	**104.00**	110.00	15.00	3.00	38.57
G110104225GB/N	**110.00**	**104.00**	110.00	22.50	3.00	40.17
G110104250GB/N	**110.00**	**104.00**	110.00	25.00	3.00	29.31
G110104272GB/N	**110.00**	**104.00**	110.00	27.20	3.00	61.35
G110104300GB/N	**110.00**	**104.00**	110.00	30.00	3.00	36.14
G110105150GB/N	**110.00**	**105.00**	110.00	15.00	2.50	39.16
G115106100GB/N*	**115.00**	**106.00**	115.00	10.00	4.50	21.38
G115106150GB/N*	**115.00**	**106.00**	115.00	15.00	4.50	68.32
G115109081GB/N*	**115.00**	**108.80**	115.00	8.10	3.10	29.39
G115109150GB/N	**115.00**	**109.00**	115.00	15.00	3.00	20.24
G115110400GB/N*	**115.00**	**110.00**	115.00	40.00	2.50	75.52
G115110500GB/N*	**115.00**	**110.00**	115.00	50.00	2.50	79.84
G118110500GB/N	**118.00**	**110.00**	118.00	50.00	4.00	102.97
G120111100GB/N	**120.00**	**111.00**	120.00	10.00	4.50	38.09
G120111150GB/N	**120.00**	**111.00**	120.00	15.00	4.50	72.35
G120114060GB/N	**120.00**	**114.00**	120.00	6.00	3.00	30.15
G120114150GB/N	**120.00**	**114.00**	120.00	15.00	3.00	50.38
G120114155GB/N	**120.00**	**114.00**	120.00	15.50	3.00	30.16
G120114225GB/N	**120.00**	**114.00**	120.00	22.50	3.00	44.05
G120114275GB/N	**120.00**	**114.00**	120.00	27.50	3.00	55.35
G120114300GB/N	**120.00**	**114.00**	120.00	30.00	3.00	36.30
G120114350GB/N	**120.00**	**114.00**	120.00	35.00	3.00	74.81
G120115150GB/N*	**120.00**	**115.00**	120.00	15.00	2.50	69.54
G121115400GB/N*	**121.00**	**115.00**	121.00	40.00	3.00	68.04
G125119200GB/N	**125.00**	**119.00**	125.00	20.00	3.00	28.24
G125120097GB/N*	**125.00**	**120.00**	125.00	9.70	2.50	34.37
G130120100GB/N	**130.00**	**120.00**	130.00	10.00	5.00	31.68
G130122075GB/N*	**130.00**	**122.00**	130.00	7.50	4.00	41.34
G130123080GB/N	**130.00**	**123.00**	130.00	8.00	3.50	35.04
G130123150GB/N	**130.00**	**123.00**	130.00	15.00	3.50	46.36
G130123180GB/N	**130.00**	**123.00**	130.00	18.00	3.50	53.25
G130123300GB/N	**130.00**	**123.00**	130.00	30.00	3.50	55.01
G130123400GB/N	**130.00**	**123.00**	130.00	40.00	3.50	92.13
G130125095GB/N	**130.00**	**125.00**	130.00	9.50	2.50	67.88
G130125150GB/N	**130.00**	**125.00**	130.00	15.00	2.50	25.94
G135125100GB/N*	**135.00**	**125.00**	135.00	10.00	5.00	92.03
G135125150GB/N	**135.00**	**125.00**	135.00	15.00	5.00	79.35
G135128185GB/N*	**135.00**	**128.00**	135.00	18.50	3.50	63.29
G140128125GB/N	**140.00**	**128.00**	140.00	12.50	6.00	37.07
G140132080GB/N	**140.00**	**132.00**	140.00	8.00	4.00	45.15
G140133175GB/N	**140.00**	**133.00**	140.00	17.50	3.50	42.83

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G140133203GB/N	**140.00**	**133.00**	140.00	20.35	3.50	82.30
G140133450GB/N	**140.00**	**133.00**	140.00	45.00	3.50	99.82
G140134128GB/N	**140.00**	**134.00**	140.00	12.80	3.00	24.22
G140134150GB/N*	**140.00**	**134.00**	140.00	15.00	3.00	27.82
G140134200GB/N	**140.00**	**134.00**	140.00	20.00	3.00	29.46
G145137097GB/N	**145.00**	**137.00**	145.00	9.70	4.00	96.82
G145138150GB/N	**145.00**	**138.00**	145.00	15.00	3.50	94.56
G150138125GB/N	**150.00**	**138.00**	150.00	12.50	6.00	71.05
G150142080GB/N	**150.00**	**142.00**	150.00	8.00	4.00	31.12
G150142097GB/N*	**150.00**	**142.00**	150.00	9.70	4.00	89.41
G150143150GB/N*	**150.00**	**143.00**	150.00	15.00	3.50	95.55
G150143175GB/N*	**150.00**	**143.00**	150.00	17.50	3.50	39.92
G150143210GB/N	**150.00**	**143.00**	150.00	21.00	3.50	33.00
G150143350GB/N	**150.00**	**143.00**	150.00	35.00	3.50	81.48
G150143450GB/N	**150.00**	**143.00**	150.00	45.00	3.50	105.70
G160148150GB/N	**160.00**	**148.00**	160.00	15.00	6.00	41.61
G160148200GB/N	**160.00**	**148.00**	160.00	20.00	6.00	99.93
G160152150GB/N*	**160.00**	**152.00**	160.00	15.00	4.00	83.27
G160153200GB/N	**160.00**	**153.00**	160.00	20.00	3.50	33.04
G160153205GB/N	**160.00**	**153.00**	160.00	20.50	3.50	47.44
G160153210GB/N	**160.00**	**153.00**	160.00	21.00	3.50	61.51
G160153400GB/N	**160.00**	**153.00**	160.00	40.00	3.50	84.96
G160153450GB/N	**160.00**	**153.00**	160.00	45.00	3.50	111.03
G160155500GB/N	**160.00**	**155.00**	160.00	50.00	2.50	111.35
G170162097GB/N	**170.00**	**162.00**	170.00	9.70	4.00	101.64
G170162150GB/N	**170.00**	**162.00**	170.00	15.00	4.00	98.00
G170162250GB/N	**170.00**	**162.00**	170.00	25.00	4.00	77.73
G170162500GB/N	**170.00**	**162.00**	170.00	50.00	4.00	154.30
G170164097GB/N	**170.00**	**164.00**	170.00	9.70	4.00	94.34
G180168225GB/N	**180.00**	**168.00**	180.00	22.50	6.00	108.90
G180172225GB/N	**180.00**	**172.00**	180.00	22.50	4.00	104.64
G180172285GB/N	**180.00**	**172.00**	180.00	28.50	4.00	74.38
G180172450GB/N	**180.00**	**172.00**	180.00	45.00	4.00	140.63
G180172550GB/N	**180.00**	**172.00**	180.00	55.00	4.00	174.60
G180174380GB/N	**180.00**	**174.00**	180.00	38.00	3.00	75.35
G180174507GB/N	**180.00**	**173.50**	180.00	50.70	3.25	121.83
G185173225GB/N	**185.00**	**173.00**	185.00	22.50	6.00	92.61
G185180250GB/N*	**185.00**	**180.00**	185.00	25.00	2.50	159.14
G190182097GB/N*	**190.00**	**182.00**	190.00	9.70	4.00	104.42
G190182200GB/N*	**190.00**	**182.00**	190.00	20.00	4.00	114.48
G190182285GB/N	**190.00**	**182.00**	190.00	28.50	4.00	87.42
G190182400GB/N*	**190.00**	**182.00**	190.00	40.00	4.00	119.91

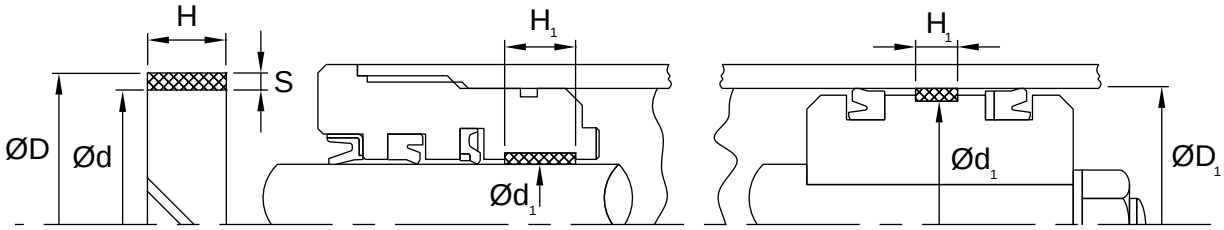
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G190182550GB/N*	**190.00**	**182.00**	190.00	55.00	4.00	139.04
G190184150GB/N	**190.00**	**184.00**	190.00	15.00	3.00	124.08
G190184200GB/N	**190.00**	**184.00**	190.00	20.00	3.00	101.20
G200188225GB/N	**200.00**	**188.00**	200.00	22.50	6.00	104.88
G200192225GB/N*	**200.00**	**192.00**	200.00	22.50	4.00	57.95
G200192285GB/N	**200.00**	**192.00**	200.00	28.50	4.00	77.98
G200194200GB/N	**200.00**	**194.00**	200.00	20.00	3.00	35.52
G200194600GB/N*	**200.00**	**193.60**	200.00	60.00	3.20	278.98
G210202285GB/N	**210.00**	**202.00**	210.00	28.50	4.00	96.03
G210204200GB/N	**210.00**	**204.00**	210.00	20.00	3.00	81.95
G215207500GB/N	**215.00**	**207.00**	215.00	50.00	4.00	150.27
G220212090GB/N	**220.00**	**212.00**	220.00	9.00	4.00	80.93
G220212285GB/N	**220.00**	**212.00**	220.00	28.50	4.00	144.91
G220213600GB/N	**220.00**	**213.00**	220.00	60.00	3.50	262.40
G220214200GB/N	**220.00**	**214.00**	220.00	20.00	3.00	121.97
G225213250GB/N	**225.00**	**213.00**	225.00	25.00	6.00	132.92
G225217250GB/N	**225.00**	**217.00**	225.00	25.00	4.00	117.55
G225217500GB/N	**225.00**	**217.00**	225.00	50.00	4.00	117.92
G225219200GB/N	**225.00**	**219.00**	225.00	20.00	3.00	104.86
G230224250GB/N*	**230.00**	**224.00**	230.00	25.00	3.00	79.48
G230224600GB/N	**230.00**	**223.70**	230.00	60.00	3.15	134.24
G235229258GB/N	**235.00**	**228.60**	235.00	25.80	3.20	90.66
G235230300GB/N*	**235.00**	**230.00**	235.00	30.00	2.50	84.29
G240234250GB/N*	**240.00**	**234.00**	240.00	25.00	3.00	86.08
G2502381200GB/N	**250.00**	**238.00**	250.00	120.00	6.00	525.79
G2502381300GB/N	**250.00**	**238.00**	250.00	130.00	6.00	674.24
G250238275GB/N	**250.00**	**238.00**	250.00	27.50	6.00	153.98
G250242550GB/N	**250.00**	**242.00**	250.00	55.00	4.00	295.99
G250244250GB/N*	**250.00**	**244.00**	250.00	25.00	3.00	89.32
G255250250GB/N	**255.00**	**250.00**	255.00	25.00	2.50	84.94
G260248275GB/N	**260.00**	**248.00**	260.00	27.50	6.00	243.77
G265260250GB/N	**265.00**	**260.00**	265.00	25.00	2.50	183.46
G280268300GB/N	**280.00**	**268.00**	280.00	30.00	6.00	221.62
G280272600GB/N*	**280.00**	**272.00**	280.00	60.00	4.00	209.20
G280274300GB/N*	**280.00**	**274.00**	280.00	30.00	3.00	133.93
G285280250GB/N*	**285.00**	**280.00**	285.00	24.75	2.50	212.60
G285280300GB/N*	**285.00**	**280.00**	285.00	30.00	2.50	216.49
G300288300GB/N	**300.00**	**288.00**	300.00	30.00	6.00	286.54
G300290230GB/N*	**300.00**	**290.00**	300.00	23.00	5.00	275.87
G3403281800GB/N	**340.00**	**328.00**	340.00	180.00	6.00	1904.44
G345340300GB/N*	**345.00**	**340.00**	345.00	30.00	2.50	184.97
G360348400GB/N	**360.00**	**348.00**	360.00	40.00	6.00	771.61

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GB/N-HP - High Performance Guide Rings - Metric



Standard Material	Temperature Range	Color
GF.Nylon	-40°F to +275°F (-40°C to +135°C)	Royal Blue



HIGH PERFORMANCE GUIDE RINGS are finished machined to a thickness tolerance of +/-.001" unless otherwise specified. The state-of the-art process and continuous improvement, generally keep the process Cpk's above 3.5. This provides better control of the extrusion gap and reduction of the apparatus or cylinder bending loads. High performance guide rings are THE choice for demanding applications.

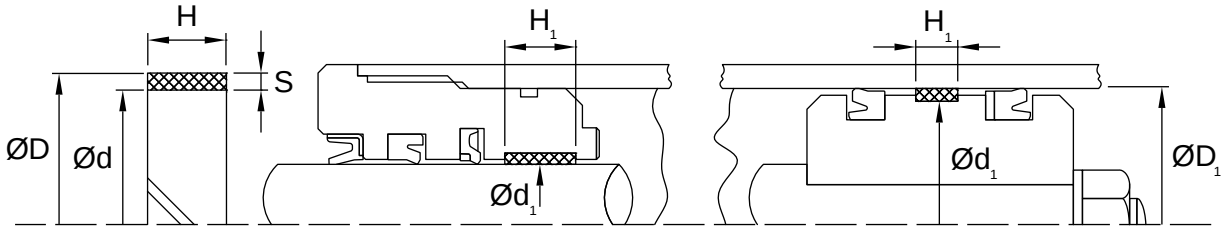
Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G0960903800GB/N-HP*	**96.00**	**90.00**	96.00	38.00	3.00	106.80
G1651602000GB/N-HP*	**165.00**	**160.00**	165.00	20.00	2.50	75.08
G2552502500GB/N-HP*	**255.00**	**250.00**	255.00	25.00	2.50	111.86
G2652602500GB/N-HP*	**265.00**	**260.00**	265.00	25.00	2.50	117.32
G2802721500GB/N-HP*	**280.00**	**272.00**	280.00	15.00	4.00	136.35
G2802743000GB/N-HP*	**280.00**	**274.00**	280.00	30.00	3.00	269.70
G3002922000GB/N-HP	**300.00**	**292.00**	300.00	20.00	4.00	230.32
G3002943500GB/N-HP	**300.00**	**294.00**	300.00	35.00	3.00	220.23
G3002953500GB/N-HP	**300.00**	**295.00**	300.00	35.00	2.50	253.23
G3053002500GB/N-HP*	**305.00**	**300.00**	305.00	25.00	2.50	271.05
G3403322500GB/N-HP*	**340.00**	**332.00**	340.00	25.00	4.00	219.20
G3403343500GB/N-HP*	**340.00**	**334.00**	340.00	35.00	3.00	250.40
G3603522500GB/N-HP*	**360.00**	**352.00**	360.00	25.00	4.00	252.60
G3603544000GB/N-HP*	**360.00**	**354.00**	360.00	40.00	3.00	333.00
G3603554000GB/N-HP*	**360.00**	**355.00**	360.00	40.00	2.50	333.00
G4204122500GB/N-HP*	**420.00**	**412.00**	420.00	25.00	4.00	322.20
G4204146000GB/N-HP*	**420.00**	**414.00**	420.00	60.00	3.00	527.18

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Compressive Strength	Surface Speed
Polyester Resin	-22°F to +230°F (-30°C to +110°C)	≤52 214 psi (≤3600 bar)	<4.92 ft/s (1.5 m/s)



GC-style has been developed to substitute traditional bronze guides in hydraulic cylinders. They guide the rod or the piston and prevent metallic contact with the cylinder when radial forces act perpendicular to the direction of movement. Since these guide rings are machined from tube, the thickness can be very precise for high guiding performance. The compound that use these guides is a cotton fabric bound with thermosetting polyester resin characterized by excellent heavy loads resistance, rigidity, hardness and high service temperature.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department.

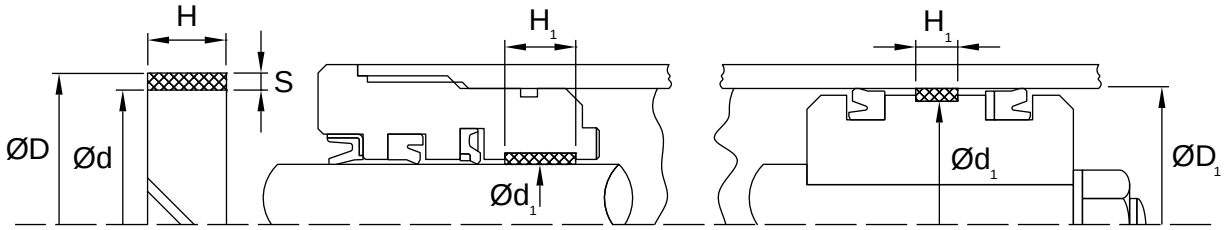
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G0190160 60GC*	**19.00**	**16.00**	19.00	6.00	1.50	16.28
G0200161 00GC*	**20.00**	**16.00**	20.00	10.00	2.00	16.28
G0230202 00GC*	**23.00**	**20.00**	23.00	20.00	1.50	16.28
G0240200 95GC	**24.00**	**20.00**	24.00	9.50	2.00	16.28
G0250220 40GC*	**25.00**	**22.00**	25.00	4.00	1.50	16.28
G0250221 00GC*	**25.00**	**22.00**	25.00	10.00	1.50	16.28
G0300250 97GC	**30.00**	**25.00**	30.00	9.70	2.50	17.89
G0320270 60GC	**32.00**	**27.00**	32.00	6.00	2.50	18.06
G0330280 63GC*	**33.00**	**28.00**	33.00	6.30	2.50	18.04
G0340281 00GC	**34.00**	**28.00**	34.00	10.00	3.00	18.04
G0350300 60GC	**35.00**	**30.00**	35.00	6.00	2.50	18.74
G0350320 42GC	**35.00**	**32.00**	35.00	4.20	1.50	19.11
G0350321 60GC	**35.00**	**32.00**	35.00	16.00	1.50	19.11
G0360321 00GC	**36.00**	**32.00**	36.00	10.00	2.00	19.11
G0360321 50GC	**36.00**	**32.00**	36.00	15.00	2.00	19.11
G0360322 00GC	**36.00**	**32.00**	36.00	20.00	2.00	19.11
G0380351 00GC*	**38.00**	**35.00**	38.00	10.00	1.50	19.69
G0390361 60GC	**39.00**	**36.00**	39.00	16.00	1.50	18.92
G0400341 00GC	**40.00**	**34.00**	40.00	10.00	3.00	22.88
G0400350 56GC*	**40.00**	**35.00**	40.00	5.60	2.50	22.84
G0400350 60GC	**40.00**	**35.00**	40.00	6.00	2.50	22.88

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G0400350 97GC	**40.00**	**35.00**	40.00	9.70	2.50	22.88
G0400360 81GC	**40.00**	**36.00**	40.00	8.10	2.00	22.88
G0400361 00GC*	**40.00**	**36.00**	40.00	10.00	2.00	22.88
G0400362 00GC*	**40.00**	**36.00**	40.00	20.00	2.00	25.14
G0410351 00GC	**41.00**	**35.00**	41.00	10.00	3.00	22.88
G0410360 56GC	**41.00**	**36.00**	41.00	5.60	2.50	20.77
G0410360 63GC	**41.00**	**36.00**	41.00	6.30	2.50	21.95
G0410360 97GC	**41.00**	**36.00**	41.00	9.70	2.50	21.95
G0430400 55GC*	**43.00**	**40.00**	43.00	5.50	1.50	8.04
G0430401 60GC	**43.00**	**40.00**	43.00	16.00	1.50	18.03
G0440401 00GC	**44.00**	**40.00**	44.00	10.00	2.00	22.88
G0440402 00GC	**44.00**	**40.00**	44.00	20.00	2.00	25.01
G0450391 00GC*	**45.00**	**39.00**	45.00	10.00	3.00	22.88
G0450400 56GC	**45.00**	**40.00**	45.00	5.60	2.50	21.37
G0450400 60GC*	**45.00**	**40.00**	45.00	6.00	2.50	21.47
G0450400 97GC	**45.00**	**40.00**	45.00	9.70	2.50	21.60
G0450401 50GC	**45.00**	**40.00**	45.00	15.00	2.50	23.28
G0450402 00GC	**45.00**	**40.00**	45.00	20.00	2.50	22.86
G0450402 50GC*	**45.00**	**40.00**	45.00	25.00	2.50	25.56
G0460400 95GC	**46.00**	**40.00**	46.00	9.50	3.00	22.88
G0460401 50GC	**46.00**	**40.00**	46.00	15.00	3.00	22.88

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range	Compressive Strength	Surface Speed
Polyester Resin	-22°F to +230°F (-30°C to +110°C)	≤52 214 psi (≤3600 bar)	<4.92 ft/s (1.5 m/s)



GC-style has been developed to substitute traditional bronze guides in hydraulic cylinders. They guide the rod or the piston and prevent metallic contact with the cylinder when radial forces act perpendicular to the direction of movement. Since these guide rings are machined from tube, the thickness can be very precise for high guiding performance. The compound that use these guides is a cotton fabric bound with thermosetting polyester resin characterized by excellent heavy loads resistance, rigidity, hardness and high service temperature.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department.

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G0190160 60GC*	**19.00**	**16.00**	19.00	6.00	1.50	16.28
G0200161 00GC*	**20.00**	**16.00**	20.00	10.00	2.00	16.28
G0230202 00GC*	**23.00**	**20.00**	23.00	20.00	1.50	16.28
G0240200 95GC	**24.00**	**20.00**	24.00	9.50	2.00	16.28
G0250220 40GC*	**25.00**	**22.00**	25.00	4.00	1.50	16.28
G0250221 00GC*	**25.00**	**22.00**	25.00	10.00	1.50	16.28
G0300250 97GC	**30.00**	**25.00**	30.00	9.70	2.50	17.89
G0320270 60GC	**32.00**	**27.00**	32.00	6.00	2.50	18.06
G0330280 63GC*	**33.00**	**28.00**	33.00	6.30	2.50	18.04
G0340281 00GC	**34.00**	**28.00**	34.00	10.00	3.00	18.04
G0350300 60GC	**35.00**	**30.00**	35.00	6.00	2.50	18.74
G0350320 42GC	**35.00**	**32.00**	35.00	4.20	1.50	19.11
G0350321 60GC	**35.00**	**32.00**	35.00	16.00	1.50	19.11
G0360321 00GC	**36.00**	**32.00**	36.00	10.00	2.00	19.11
G0360321 50GC	**36.00**	**32.00**	36.00	15.00	2.00	19.11
G0360322 00GC	**36.00**	**32.00**	36.00	20.00	2.00	19.11
G0380351 00GC*	**38.00**	**35.00**	38.00	10.00	1.50	19.69
G0390361 60GC	**39.00**	**36.00**	39.00	16.00	1.50	18.92
G0400341 00GC	**40.00**	**34.00**	40.00	10.00	3.00	22.88
G0400350 56GC*	**40.00**	**35.00**	40.00	5.60	2.50	22.84
G0400350 60GC	**40.00**	**35.00**	40.00	6.00	2.50	22.88

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G0400350 97GC	**40.00**	**35.00**	40.00	9.70	2.50	22.88
G0400360 81GC	**40.00**	**36.00**	40.00	8.10	2.00	22.88
G0400361 00GC*	**40.00**	**36.00**	40.00	10.00	2.00	22.88
G0400362 00GC*	**40.00**	**36.00**	40.00	20.00	2.00	25.14
G0410351 00GC	**41.00**	**35.00**	41.00	10.00	3.00	22.88
G0410360 56GC	**41.00**	**36.00**	41.00	5.60	2.50	20.77
G0410360 63GC	**41.00**	**36.00**	41.00	6.30	2.50	21.95
G0410360 97GC	**41.00**	**36.00**	41.00	9.70	2.50	21.95
G0430400 55GC*	**43.00**	**40.00**	43.00	5.50	1.50	8.04
G0430401 60GC	**43.00**	**40.00**	43.00	16.00	1.50	18.03
G0440401 00GC	**44.00**	**40.00**	44.00	10.00	2.00	22.88
G0440402 00GC	**44.00**	**40.00**	44.00	20.00	2.00	25.01
G0450391 00GC*	**45.00**	**39.00**	45.00	10.00	3.00	22.88
G0450400 56GC	**45.00**	**40.00**	45.00	5.60	2.50	21.37
G0450400 60GC*	**45.00**	**40.00**	45.00	6.00	2.50	21.47
G0450400 97GC	**45.00**	**40.00**	45.00	9.70	2.50	21.60
G0450401 50GC	**45.00**	**40.00**	45.00	15.00	2.50	23.28
G0450402 00GC	**45.00**	**40.00**	45.00	20.00	2.50	22.86
G0450402 50GC*	**45.00**	**40.00**	45.00	25.00	2.50	25.56
G0460400 95GC	**46.00**	**40.00**	46.00	9.50	3.00	22.88
G0460401 50GC	**46.00**	**40.00**	46.00	15.00	3.00	22.88

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GC series - PR

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G046040200GC	**46.00**	**40.00**	46.00	20.00	3.00	25.80
G048045143GC*	**48.00**	**45.00**	48.00	14.30	1.50	9.47
G048045225GC	**48.00**	**45.00**	48.00	22.50	1.50	22.85
G050044050GC	**50.00**	**44.00**	50.00	5.00	3.00	14.07
G050044100GC	**50.00**	**44.00**	50.00	10.00	3.00	22.88
G050044250GC*	**50.00**	**44.00**	50.00	25.00	3.00	25.80
G050045056GC	**50.00**	**45.00**	50.00	5.60	2.50	22.68
G050045060GC	**50.00**	**45.00**	50.00	6.00	2.50	22.74
G050045063GC	**50.00**	**45.00**	50.00	6.30	2.50	22.88
G050045080GC	**50.00**	**45.00**	50.00	8.00	2.50	22.88
G050045097GC	**50.00**	**45.00**	50.00	9.70	2.50	24.27
G050045150GC	**50.00**	**45.00**	50.00	15.00	2.50	22.98
G050045200GC	**50.00**	**45.00**	50.00	20.00	2.50	25.56
G050046145GC	**50.00**	**46.00**	50.00	14.60	2.00	10.55
G051045097GC	**51.00**	**45.00**	51.00	9.70	3.00	20.81
G051045130GC	**51.00**	**45.00**	51.00	13.00	3.00	22.88
G051045220GC	**51.00**	**45.00**	51.00	22.00	3.00	25.80
G051045225GC	**51.00**	**45.00**	51.00	22.50	3.00	26.51
G053050250GC	**53.00**	**50.00**	53.00	25.00	1.50	26.97
G054050120GC	**54.00**	**50.00**	54.00	12.00	2.00	22.88
G055050056GC	**55.00**	**50.00**	55.00	5.60	2.50	24.04
G055050060GC	**55.00**	**50.00**	55.00	6.00	2.50	23.16
G055050097GC	**55.00**	**50.00**	55.00	9.70	2.50	22.88
G055050100GC	**55.00**	**50.00**	55.00	10.00	2.50	23.64
G055050150GC	**55.00**	**50.00**	55.00	15.00	2.50	25.10
G055050250GC	**55.00**	**50.00**	55.00	25.00	2.50	25.56
G055050300GC*	**55.00**	**50.00**	55.00	30.00	2.50	26.64
G055051100GC*	**55.00**	**51.00**	55.00	10.00	2.00	22.25
G056050130GC	**56.00**	**50.00**	56.00	13.00	3.00	22.88
G056050180GC	**56.00**	**50.00**	56.00	18.00	3.00	23.27
G056050200GC	**56.00**	**50.00**	56.00	20.00	3.00	25.56
G056050250GC	**56.00**	**50.00**	56.00	25.00	3.00	27.75
G056050280GC	**56.00**	**50.00**	56.00	28.00	3.00	25.83
G056050300GC	**56.00**	**50.00**	56.00	30.00	3.00	27.79
G060054150GC-1*	**60.00**	**53.70**	60.00	15.00	3.15	25.89
G060054130GC	**60.00**	**54.00**	60.00	13.00	3.00	22.88
G060055056GC	**60.00**	**55.00**	60.00	5.60	2.50	20.13
G060055060GC*	**60.00**	**55.00**	60.00	6.00	2.50	23.50
G060055063GC	**60.00**	**55.00**	60.00	6.30	2.50	22.88
G060055097GC	**60.00**	**55.00**	60.00	9.70	2.50	24.49
G060055150GC	**60.00**	**55.00**	60.00	15.00	2.50	26.54
G060056100GC*	**60.00**	**56.00**	60.00	10.00	2.00	26.49
G061055127GC*	**61.00**	**55.00**	61.00	12.70	3.00	20.81
G062055130GC*	**62.00**	**55.00**	62.00	13.00	3.50	22.88
G062056080GC*	**62.00**	**56.00**	62.00	8.00	3.00	14.17
G062056250GC	**62.00**	**56.00**	62.00	25.00	3.00	27.46

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G062056280GC	**62.00**	**56.00**	62.00	28.00	3.00	27.40
G063056050GC	**63.00**	**56.80**	63.00	5.00	3.10	18.66
G063057130GC	**63.00**	**57.00**	63.00	13.00	3.00	22.88
G063058056GC	**63.00**	**58.00**	63.00	5.60	2.50	22.88
G063058063GC	**63.00**	**58.00**	63.00	6.30	2.50	22.88
G063058097GC	**63.00**	**58.00**	63.00	9.70	2.50	22.88
G063059100GC	**63.00**	**59.00**	63.00	10.00	2.00	21.03
G065055250GC*	**65.00**	**55.00**	65.00	25.00	5.00	26.18
G065059150GC*	**65.00**	**59.00**	65.00	15.00	3.00	22.88
G065060056GC	**65.00**	**60.00**	65.00	5.60	2.50	23.63
G065060060GC	**65.00**	**60.00**	65.00	6.00	2.50	24.49
G065060097GC	**65.00**	**60.00**	65.00	9.70	2.50	24.64
G065060150GC	**65.00**	**60.00**	65.00	15.00	2.50	22.88
G065060200GC	**65.00**	**60.00**	65.00	20.00	2.50	25.26
G065061098GC	**65.00**	**61.00**	65.00	9.80	2.00	18.98
G066060130GC	**66.00**	**60.00**	66.00	13.00	3.00	22.88
G066060400GC	**66.00**	**60.00**	66.00	40.00	3.00	29.74
G068063097GC	**68.00**	**63.00**	68.00	9.70	2.50	23.42
G068063150GC	**68.00**	**63.00**	68.00	15.00	2.50	23.42
G068063250GC	**68.00**	**63.00**	68.00	25.00	2.50	24.08
G069063090GC*	**69.00**	**63.00**	69.00	9.00	3.00	14.25
G069063130GC	**69.00**	**63.00**	69.00	13.00	3.00	23.42
G069063180GC	**69.00**	**63.00**	69.00	18.00	3.00	26.20
G069063200GC	**69.00**	**63.00**	69.00	20.00	3.00	26.20
G069063280GC	**69.00**	**63.00**	69.00	28.00	3.00	28.72
G069063300GC	**69.00**	**63.00**	69.00	30.00	3.00	28.45
G069063310GC	**69.00**	**63.00**	69.00	31.00	3.00	26.35
G069063315GC	**69.00**	**63.00**	69.00	31.50	3.00	24.17
G069063350GC*	**69.00**	**63.00**	69.00	35.00	3.00	28.45
G070062120GC	**70.00**	**62.00**	70.00	12.00	4.00	26.60
G070064130GC	**70.00**	**64.00**	70.00	13.00	3.00	26.79
G070064150GC	**70.00**	**64.00**	70.00	15.00	3.00	27.68
G070064200GC	**70.00**	**64.00**	70.00	20.00	3.00	29.05
G070065056GC	**70.00**	**65.00**	70.00	5.60	2.50	16.96
G070065060GC	**70.00**	**65.00**	70.00	6.00	2.50	23.07
G070065077GC	**70.00**	**65.00**	70.00	7.70	2.50	18.40
G070065097GC	**70.00**	**65.00**	70.00	9.70	2.50	26.02
G070065100GC	**70.00**	**65.00**	70.00	10.00	2.50	11.88
G070065150GC	**70.00**	**65.00**	70.00	15.00	2.50	28.29
G070065200GC	**70.00**	**65.00**	70.00	20.00	2.50	31.34
G070065300GC*	**70.00**	**65.00**	70.00	30.00	2.50	36.27
G070065450GC*	**70.00**	**65.00**	70.00	45.00	2.50	49.56
G070066100GC*	**70.00**	**66.00**	70.00	10.00	2.00	21.30
G07406806OGC	**74.00**	**68.00**	74.00	6.00	3.00	23.42
G07407008OGC	**74.00**	**70.00**	74.00	8.00	2.00	17.41
G07506712OGC	**75.00**	**67.00**	75.00	12.00	4.00	23.42

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G075068300GC*	**75.00**	**68.50**	75.00	30.00	3.25	33.24
G075069148GC*	**75.00**	**68.70**	75.00	14.80	3.15	22.70
G075069196GC*	**75.00**	**69.00**	75.00	19.60	3.00	25.38
G075070060GC	**75.00**	**70.00**	75.00	6.00	2.50	23.45
G075070097GC	**75.00**	**70.00**	75.00	9.70	2.50	23.42
G075070100GC	**75.00**	**70.00**	75.00	10.00	2.50	23.42
G075070150GC	**75.00**	**70.00**	75.00	15.00	2.50	23.42
G075070200GC	**75.00**	**70.00**	75.00	20.00	2.50	32.93
G075070250GC*	**75.00**	**70.00**	75.00	25.00	2.50	33.12
G075070300GC*	**75.00**	**70.00**	75.00	30.00	2.50	33.37
G075070450GC*	**75.00**	**70.00**	75.00	45.00	2.50	37.87
G076070130GC	**76.00**	**70.00**	76.00	13.00	3.00	23.42
G076070200GC*	**76.00**	**70.00**	76.00	20.00	3.00	26.20
G076070300GC	**76.00**	**70.00**	76.00	30.00	3.00	28.45
G076070310GC	**76.00**	**70.00**	76.00	31.00	3.00	28.75
G076070350GC	**76.00**	**70.00**	76.00	35.00	3.00	28.09
G076070381GC*	**76.00**	**70.00**	76.00	38.10	3.00	28.45
G076070500GC*	**76.00**	**70.00**	76.00	50.00	3.00	30.16
G080072120GC	**80.00**	**72.00**	80.00	12.00	4.00	27.90
G080073100GC-1	**80.00**	**73.76**	80.00	10.00	3.12	17.09
G080074100GC	**80.00**	**74.00**	80.00	10.00	3.00	18.24
G080074125GC	**80.00**	**74.00**	80.00	12.50	3.00	28.19
G080074130GC	**80.00**	**74.00**	80.00	13.00	3.00	28.89
G080074150GC	**80.00**	**74.00**	80.00	15.00	3.00	29.21
G080074200GC	**80.00**	**74.00**	80.00	20.00	3.00	29.36
G080074250GC	**80.00**	**74.00**	80.00	25.00	3.00	30.12
G080074300GC	**80.00**	**74.00**	80.00	30.00	3.00	32.97
G080075078GC	**80.00**	**75.00**	80.00	7.80	2.50	20.36
G080075097GC	**80.00**	**75.00**	80.00	9.70	2.50	27.69
G080075100GC	**80.00**	**75.00**	80.00	10.00	2.50	27.86
G080075150GC	**80.00**	**75.00**	80.00	15.00	2.50	29.22
G080075200GC	**80.00**	**75.00**	80.00	20.00	2.50	30.62
G080075250GC	**80.00**	**75.00**	80.00	25.00	2.50	32.93
G080076075GC*	**80.00**	**76.00**	80.00	7.50	2.00	23.42
G080076100GC*	**80.00**	**76.00**	80.00	10.00	2.00	23.99
G085079100GC*	**85.00**	**79.00**	85.00	10.00	3.00	16.08
G085079125GC	**85.00**	**79.00**	85.00	12.50	3.00	21.62
G085079200GC*	**85.00**	**79.00**	85.00	20.00	3.00	34.07
G085079250GC	**85.00**	**79.00**	85.00	25.00	3.00	49.45
G085080097GC	**85.00**	**80.00**	85.00	9.70	2.50	29.67
G085080150GC	**85.00**	**80.00**	85.00	15.00	2.50	25.32
G085080197GC	**85.00**	**80.00**	85.00	19.70	2.50	20.32
G085080250GC	**85.00**	**80.00**	85.00	25.00	2.50	30.12
G085080350GC	**85.00**	**80.00**	85.00	35.00	2.50	28.35
G086080130GC	**86.00**	**80.00**	86.00	13.00	3.00	25.32
G086080200GC	**86.00**	**80.00**	86.00	20.00	3.00	28.56

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G086080250GC	**86.00**	**80.00**	86.00	25.00	3.00	28.56
G086080350GC	**86.00**	**80.00**	86.00	35.00	3.00	30.00
G086080400GC	**86.00**	**80.00**	86.00	40.00	3.00	49.91
G086080500GC*	**86.00**	**80.00**	86.00	50.00	3.00	51.15
G090082080GC*	**90.00**	**82.00**	90.00	8.00	4.00	24.45
G090082150GC	**90.00**	**82.00**	90.00	15.00	4.00	32.88
G090083150GC*	**90.00**	**83.00**	90.00	15.00	3.50	27.80
G090083300GC*	**90.00**	**83.00**	90.00	30.00	3.50	40.47
G090083150GC-1	**90.00**	**83.70**	90.00	15.00	3.15	22.00
G090084100GC	**90.00**	**84.00**	90.00	10.00	3.00	29.07
G090084125GC	**90.00**	**84.00**	90.00	12.50	3.00	29.60
G090084130GC*	**90.00**	**84.00**	90.00	13.00	3.00	32.13
G090084150GC	**90.00**	**84.00**	90.00	15.00	3.00	33.24
G090084200GC*	**90.00**	**84.00**	90.00	20.00	3.00	34.09
G090084250GC	**90.00**	**84.00**	90.00	25.00	3.00	34.54
G090084300GC	**90.00**	**84.00**	90.00	30.00	3.00	41.37
G090085050GC	**90.00**	**85.00**	90.00	5.00	2.50	21.45
G090085060GC	**90.00**	**85.00**	90.00	6.00	2.50	25.33
G090085080GC*	**90.00**	**85.00**	90.00	8.00	2.50	23.05
G090085097GC	**90.00**	**85.00**	90.00	9.70	2.50	27.26
G090085150GC	**90.00**	**85.00**	90.00	15.00	2.50	34.00
G090086150GC*	**90.00**	**86.00**	90.00	15.00	2.00	28.75
G091085250GC*	**91.00**	**85.00**	91.00	25.00	3.00	30.79
G093090250GC*	**93.00**	**90.00**	93.00	25.00	1.50	52.72
G095086125GC	**95.00**	**86.00**	95.00	12.50	4.50	25.92
G095089130GC	**95.00**	**89.00**	95.00	13.00	3.00	27.38
G095089300GC*	**95.00**	**89.00**	95.00	30.00	3.00	27.84
G095090060GC	**95.00**	**90.00**	95.00	6.00	2.50	28.22
G095090080GC*	**95.00**	**90.00**	95.00	8.00	2.50	21.55
G095090097GC	**95.00**	**90.00**	95.00	9.70	2.50	25.49
G095090150GC	**95.00**	**90.00**	95.00	15.00	2.50	25.95
G095090250GC	**95.00**	**90.00**	95.00	25.00	2.50	29.83
G096090130GC*	**96.00**	**90.00**	96.00	13.00	3.00	27.38
G096090250GC	**96.00**	**90.00**	96.00	25.00	3.00	30.79
G096090290GC	**96.00**	**90.00**	96.00	29.00	3.00	30.79
G096090300GC	**96.00**	**90.00**	96.00	30.00	3.00	31.74
G096090400GC	**96.00**	**90.00**	96.00	40.00	3.00	35.49
G100092100GC	**100.00**	**92.00**	100.00	10.00	4.00	25.71
G100092150GC*	**100.00**	**92.00**	100.00	15.00	4.00	27.38
G100093150GC-1	**100.00**	**93.70**	100.00	15.00	3.15	23.07
G100094090GC*	**100.00**	**94.00**	100.00	9.00	3.00	18.92
G100094098GC	**100.00**	**94.00**	100.00	9.80	3.00	24.49
G100094125GC	**100.00**	**94.00**	100.00	12.50	3.00	22.12
G100094130GC*	**100.00**	**94.00**	100.00	13.00	3.00	27.38
G100094150GC	**100.00**	**94.00**	100.00	15.00	3.00	30.80
G100094200GC	**100.00**	**94.00**	100.00	20.00	3.00	35.34

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GC series - PR

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G100094250GC	**100.00**	**94.00**	100.00	25.00	3.00	37.59
G100094282GC	**100.00**	**94.00**	100.00	28.30	3.00	39.68
G100094300GC	**100.00**	**94.00**	100.00	30.00	3.00	39.92
G100094400GC*	**100.00**	**94.00**	100.00	40.00	3.00	41.24
G100095060GC	**100.00**	**95.00**	100.00	6.00	2.50	24.34
G100095080GC	**100.00**	**95.00**	100.00	8.00	2.50	27.26
G100095097GC	**100.00**	**95.00**	100.00	9.70	2.50	27.39
G100095125GC	**100.00**	**95.00**	100.00	12.50	2.50	30.62
G100095150GC	**100.00**	**95.00**	100.00	15.00	2.50	34.80
G100095250GC*	**100.00**	**95.00**	100.00	25.00	2.50	27.42
G100096150GC	**100.00**	**96.00**	100.00	15.00	2.00	34.82
G105096125GC	**105.00**	**96.00**	105.00	12.50	4.50	35.65
G105097060GC	**105.00**	**97.00**	105.00	6.00	4.00	21.78
G105099150GC*	**105.00**	**99.00**	105.00	15.00	3.00	29.44
G105099250GC*	**105.00**	**99.00**	105.00	25.00	3.00	44.28
G105100060GC	**105.00**	**100.00**	105.00	6.00	2.50	30.36
G105100080GC*	**105.00**	**100.00**	105.00	8.00	2.50	27.39
G105100097GC	**105.00**	**100.00**	105.00	9.70	2.50	27.20
G105100150GC	**105.00**	**100.00**	105.00	15.00	2.50	38.95
G105100250GC	**105.00**	**100.00**	105.00	25.00	2.50	36.96
G105100600GC	**105.00**	**100.00**	105.00	60.00	2.50	67.96
G106100130GC	**106.00**	**100.00**	106.00	13.00	3.00	27.38
G106100200GC	**106.00**	**100.00**	106.00	20.00	3.00	31.16
G110102150GC	**110.00**	**102.00**	110.00	15.00	4.00	35.65
G110104100GC*	**110.00**	**104.00**	110.00	10.00	3.00	30.79
G110104130GC	**110.00**	**104.00**	110.00	13.00	3.00	30.79
G110104150GC	**110.00**	**104.00**	110.00	15.00	3.00	38.79
G110104150GC-1	**110.00**	**104.00**	110.00	15.00	3.00	31.46
G110104160GC*	**110.00**	**104.00**	110.00	16.00	3.00	38.79
G110104250GC	**110.00**	**104.00**	110.00	25.00	3.00	41.83
G110104300GC	**110.00**	**104.00**	110.00	30.00	3.00	42.01
G110104350GC	**110.00**	**104.00**	110.00	35.00	3.00	49.28
G110105060GC	**110.00**	**105.00**	110.00	6.00	2.50	30.36
G110105080GC	**110.00**	**105.00**	110.00	8.00	2.50	30.36
G110105097GC	**110.00**	**105.00**	110.00	9.70	2.50	30.36
G110105150GC	**110.00**	**105.00**	110.00	15.00	2.50	38.79
G110105200GC	**110.00**	**105.00**	110.00	20.00	2.50	40.93
G110105250GC	**110.00**	**105.00**	110.00	25.00	2.50	41.83
G111105180GC	**111.00**	**105.00**	111.00	18.00	3.00	33.85
G114108130GC*	**114.00**	**108.00**	114.00	13.00	3.00	30.79
G115106100GC	**115.00**	**106.00**	115.00	10.00	4.50	32.43
G115106150GC	**115.00**	**106.00**	115.00	15.00	4.50	33.37
G115107150GC*	**115.00**	**107.00**	115.00	15.00	4.00	40.16
G115109150GC-1	**115.00**	**108.70**	115.00	15.00	3.15	40.17
G115109250GC-1	**115.00**	**108.70**	115.00	25.00	3.15	33.85
G115109060GC	**115.00**	**109.00**	115.00	6.00	3.00	26.77

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G115109150GC	**115.00**	**109.00**	115.00	15.00	3.00	40.16
G115109250GC*	**115.00**	**109.00**	115.00	25.00	3.00	33.85
G115110080GC	**115.00**	**110.00**	115.00	8.00	2.50	40.16
G115110097GC	**115.00**	**110.00**	115.00	9.70	2.50	40.17
G115110145GC	**115.00**	**110.00**	115.00	14.50	2.50	40.16
G115110150GC	**115.00**	**110.00**	115.00	15.00	2.50	33.85
G115110250GC	**115.00**	**110.00**	115.00	25.00	2.50	74.15
G115112150GC*	**115.00**	**112.00**	115.00	15.00	1.50	30.05
G116110130GC	**116.00**	**110.00**	116.00	13.00	3.00	30.79
G116110200GC*	**116.00**	**110.00**	116.00	20.00	3.00	33.85
G116110300GC*	**116.00**	**110.00**	116.00	30.00	3.00	36.73
G116110400GC*	**116.00**	**110.00**	116.00	40.00	3.00	42.00
G118110300GC	**118.00**	**110.00**	118.00	30.00	4.00	34.46
G120110147GC*	**120.00**	**110.00**	120.00	14.70	5.00	30.79
G120112060GC	**120.00**	**112.00**	120.00	6.00	4.00	13.51
G120112100GC*	**120.00**	**112.00**	120.00	10.00	4.00	26.96
G120113150GC*	**120.00**	**113.00**	120.00	15.00	3.50	26.04
G120113200GC-1	**120.00**	**113.00**	120.00	20.00	3.50	33.84
G120114130GC*	**120.00**	**114.00**	120.00	13.00	3.00	30.79
G120114150GC	**120.00**	**114.00**	120.00	15.00	3.00	30.79
G120114195GC*	**120.00**	**114.00**	120.00	19.50	3.00	33.85
G120114200GC	**120.00**	**114.00**	120.00	20.00	3.00	33.85
G120114250GC*	**120.00**	**114.00**	120.00	25.00	3.00	37.20
G120114300GC	**120.00**	**114.00**	120.00	30.00	3.00	40.73
G120114350GC*	**120.00**	**114.00**	120.00	35.00	3.00	73.91
G120114350GC-1*	**120.00**	**114.00**	120.00	35.00	3.00	30.45
G120114400GC*	**120.00**	**114.00**	120.00	40.00	3.00	44.78
G120115080GC	**120.00**	**115.00**	120.00	8.00	2.50	25.66
G120115095GC-ZG/25D*	**120.00**	**115.00**	120.00	9.50	2.50	30.18
G120115097GC	**120.00**	**115.00**	120.00	9.70	2.50	25.66
G120115150GC	**120.00**	**115.00**	120.00	15.00	2.50	30.79
G120115250GC*	**120.00**	**115.00**	120.00	25.00	2.50	21.70
G121115200GC*	**121.00**	**115.00**	121.00	20.00	3.00	33.85
G125115147GC	**125.00**	**115.00**	125.00	14.70	5.00	30.79
G125118150GC*	**125.00**	**118.00**	125.00	15.00	3.50	32.70
G125118170GC*	**125.00**	**118.00**	125.00	17.00	3.50	42.80
G125119097GC	**125.00**	**119.00**	125.00	9.70	3.00	29.05
G125119125GC	**125.00**	**119.00**	125.00	12.50	3.00	30.80
G125119130GC	**125.00**	**119.00**	125.00	13.00	3.00	30.79
G125119150GC	**125.00**	**119.00**	125.00	15.00	3.00	34.23
G125119200GC-1*	**125.00**	**119.00**	125.00	20.00	3.00	42.01
G125119250GC*	**125.00**	**119.00**	125.00	25.00	3.00	42.01
G125119300GC*	**125.00**	**119.00**	125.00	30.00	3.00	42.01
G125119350GC	**125.00**	**119.00**	125.00	35.00	3.00	46.98
G125119400GC*	**125.00**	**119.00**	125.00	40.00	3.00	54.54
G125120080GC	**125.00**	**120.00**	125.00	8.00	2.50	29.05

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G125120091GC	**125.00**	**120.00**	125.00	9.10	2.50	25.19
G125120097GC	**125.00**	**120.00**	125.00	9.70	2.50	29.05
G125120150GC	**125.00**	**120.00**	125.00	15.00	2.50	34.23
G125120200GC	**125.00**	**120.00**	125.00	20.00	2.50	34.23
G125120250GC	**125.00**	**120.00**	125.00	25.00	2.50	34.23
G125121200GC	**125.00**	**121.00**	125.00	20.00	2.00	50.28
G126120500GC*	**126.00**	**120.00**	126.00	50.00	3.00	26.04
G128120350GC*	**128.00**	**120.00**	128.00	35.00	4.00	47.93
G130120150GC	**130.00**	**120.00**	130.00	15.00	5.00	35.17
G130122080GC	**130.00**	**122.00**	130.00	8.00	4.00	15.29
G130123300GC	**130.00**	**123.00**	130.00	30.00	3.50	52.57
G130123400GC	**130.00**	**123.00**	130.00	40.00	3.50	48.86
G130124300GC*	**130.00**	**124.00**	130.00	30.00	3.00	52.57
G130125080GC	**130.00**	**125.00**	130.00	8.00	2.50	31.96
G130125097GC	**130.00**	**125.00**	130.00	9.70	2.50	31.96
G130125150GC	**130.00**	**125.00**	130.00	15.00	2.50	35.17
G130125200GC	**130.00**	**125.00**	130.00	20.00	2.50	39.68
G130125250GC	**130.00**	**125.00**	130.00	25.00	2.50	41.72
G130125400GC	**130.00**	**125.00**	130.00	40.00	2.50	59.51
G131125130GC	**131.00**	**125.00**	131.00	13.00	3.00	30.79
G131125250GC	**131.00**	**125.00**	131.00	25.00	3.00	33.85
G131125300GC*	**131.00**	**125.00**	131.00	30.00	3.00	35.49
G131125400GC*	**131.00**	**125.00**	131.00	40.00	3.00	42.00
G133125450GC*	**133.00**	**125.00**	133.00	45.00	4.00	42.00
G134128600GC*	**134.00**	**128.00**	134.00	60.00	3.00	64.36
G134130150GC*	**134.00**	**130.00**	134.00	15.00	2.00	26.04
G135125150GC	**135.00**	**125.00**	135.00	15.00	5.00	39.25
G135127150GC	**135.00**	**127.00**	135.00	15.00	4.00	39.25
G135128097GC	**135.00**	**128.00**	135.00	9.70	3.50	30.79
G135128150GC	**135.00**	**128.00**	135.00	15.00	3.50	39.25
G135128250GC*	**135.00**	**128.00**	135.00	25.00	3.50	47.39
G135129130GC*	**135.00**	**129.00**	135.00	13.00	3.00	32.78
G135130080GC	**135.00**	**130.00**	135.00	8.00	2.50	30.79
G135130097GC	**135.00**	**130.00**	135.00	9.70	2.50	25.00
G135130150GC	**135.00**	**130.00**	135.00	15.00	2.50	40.16
G136130300GC*	**136.00**	**130.00**	136.00	30.00	3.00	51.77
G140128125GC	**140.00**	**128.00**	140.00	12.50	6.00	45.99
G140128175GC	**140.00**	**128.00**	140.00	17.50	6.00	42.01
G140130400GC*	**140.00**	**130.00**	140.00	40.00	5.00	71.34
G140132080GC	**140.00**	**132.00**	140.00	8.00	4.00	27.74
G140133100GC	**140.00**	**133.00**	140.00	10.00	3.50	30.79
G140133150GC*	**140.00**	**133.00**	140.00	15.00	3.50	26.04
G140133170GC*	**140.00**	**133.00**	140.00	17.00	3.50	42.01
G140133175GC	**140.00**	**133.00**	140.00	17.50	3.50	42.00
G140133200GC	**140.00**	**133.00**	140.00	20.00	3.50	42.01
G140133350GC	**140.00**	**133.00**	140.00	35.00	3.50	69.37

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G140133400GC	**140.00**	**133.00**	140.00	40.00	3.50	71.36
G140133450GC	**140.00**	**133.00**	140.00	45.00	3.50	75.90
G140134130GC*	**140.00**	**134.00**	140.00	13.00	3.00	35.50
G140134250GC	**140.00**	**134.00**	140.00	25.00	3.00	42.00
G140134400GC	**140.00**	**134.00**	140.00	40.00	3.00	71.36
G140135080GC	**140.00**	**135.00**	140.00	8.00	2.50	30.79
G140135097GC	**140.00**	**135.00**	140.00	9.70	2.50	30.79
G140135150GC	**140.00**	**135.00**	140.00	15.00	2.50	35.49
G140135200GC	**140.00**	**135.00**	140.00	20.00	2.50	42.00
G145136150GC*	**145.00**	**136.00**	145.00	15.00	4.50	32.64
G145138097GC	**145.00**	**138.00**	145.00	9.70	3.50	34.68
G145138150GC	**145.00**	**138.00**	145.00	15.00	3.50	36.74
G145138200GC*	**145.00**	**138.00**	145.00	20.00	3.50	38.29
G145139300GC*	**145.00**	**139.00**	145.00	30.00	3.00	40.93
G145140097GC	**145.00**	**140.00**	145.00	9.70	2.50	28.01
G145140150GC	**145.00**	**140.00**	145.00	15.00	2.50	36.74
G145140200GC	**145.00**	**140.00**	145.00	20.00	2.50	40.93
G145140250GC	**145.00**	**140.00**	145.00	25.00	2.50	40.93
G145140300GC*	**145.00**	**140.00**	145.00	30.00	2.50	40.93
G146140250GC*	**146.00**	**140.00**	146.00	25.00	3.00	35.49
G146140300GC*	**146.00**	**140.00**	146.00	30.00	3.00	35.49
G146140350GC*	**146.00**	**140.00**	146.00	35.00	3.00	35.50
G146140600GC*	**146.00**	**140.00**	146.00	60.00	3.00	111.89
G150138125GC*	**150.00**	**138.00**	150.00	12.50	6.00	49.18
G150138175GC	**150.00**	**138.00**	150.00	17.50	6.00	49.60
G150140150GC*	**150.00**	**140.00**	150.00	15.00	5.00	36.15
G150143150GC	**150.00**	**143.00**	150.00	15.00	3.50	45.34
G150143175GC*	**150.00**	**143.00**	150.00	17.50	3.50	41.36
G150143200GC	**150.00**	**143.00**	150.00	20.00	3.50	49.60
G150143210GC	**150.00**	**143.00**	150.00	21.00	3.50	46.86
G150143250GC	**150.00**	**143.00**	150.00	25.00	3.50	53.23
G150143300GC*	**150.00**	**143.00**	150.00	30.00	3.50	45.01
G150143350GC	**150.00**	**143.00**	150.00	35.00	3.50	62.68
G150143400GC	**150.00**	**143.00**	150.00	40.00	3.50	71.64
G150143450GC	**150.00**	**143.00**	150.00	45.00	3.50	66.90
G150144250GC*	**150.00**	**144.00**	150.00	25.00	3.00	62.68
G150144400GC*	**150.00**	**144.00**	150.00	40.00	3.00	71.64
G150145097GC	**150.00**	**145.00**	150.00	9.70	2.50	39.71
G150145100GC*	**150.00**	**145.00**	150.00	10.00	2.50	39.71
G150145125GC	**150.00**	**145.00**	150.00	12.50	2.50	41.42
G150145150GC	**150.00**	**145.00**	150.00	15.00	2.50	45.34
G150145200GC	**150.00**	**145.00**	150.00	20.00	2.50	49.60
G150148150GC*	**150.00**	**148.00**	150.00	15.00	1.00	34.84
G155150080GC*	**155.00**	**150.00**	155.00	8.00	2.50	29.40
G155150097GC*	**155.00**	**150.00**	155.00	9.70	2.50	29.40
G155150150GC	**155.00**	**150.00**	155.00	15.00	2.50	38.34

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GC series - PR

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G155150250GC	**155.00**	**150.00**	155.00	25.00	2.50	54.93
G155150850GC	**155.00**	**150.00**	155.00	85.00	2.50	105.94
G156150300GC*	**156.00**	**150.00**	156.00	30.00	3.00	36.32
G158152600GC*	**158.00**	**152.00**	158.00	60.00	3.00	74.67
G160148150GC	**160.00**	**148.00**	160.00	15.00	6.00	55.39
G160148200GC*	**160.00**	**148.00**	160.00	20.00	6.00	57.74
G160150250GC*	**160.00**	**150.00**	160.00	25.00	5.00	48.83
G160152097GC*	**160.00**	**152.00**	160.00	9.70	4.00	29.70
G160152250GC*	**160.00**	**152.00**	160.00	25.00	4.00	44.80
G160153150GC*	**160.00**	**153.00**	160.00	15.00	3.50	45.29
G160153200GC	**160.00**	**153.00**	160.00	20.00	3.50	53.55
G160153205GC*	**160.00**	**153.00**	160.00	20.50	3.50	53.55
G160153270GC*	**160.00**	**153.00**	160.00	27.00	3.50	55.98
G160153350GC	**160.00**	**153.00**	160.00	35.00	3.50	55.98
G160153400GC*	**160.00**	**153.00**	160.00	40.00	3.50	67.88
G160153450GC*	**160.00**	**153.00**	160.00	45.00	3.50	82.59
G160154150GC	**160.00**	**154.00**	160.00	15.00	3.00	43.97
G160154190GC	**160.00**	**154.00**	160.00	19.00	3.00	55.08
G160154191GC*	**160.00**	**154.00**	160.00	19.10	3.00	39.63
G160154200GC	**160.00**	**154.00**	160.00	20.00	3.00	53.55
G160154250GC	**160.00**	**154.00**	160.00	25.00	3.00	53.55
G160154300GC	**160.00**	**154.00**	160.00	30.00	3.00	55.98
G160154350GC*	**160.00**	**154.00**	160.00	35.00	3.00	55.98
G160154400GC*	**160.00**	**154.00**	160.00	40.00	3.00	80.32
G160154500GC	**160.00**	**154.00**	160.00	50.00	3.00	95.50
G160155080GC*	**160.00**	**155.00**	160.00	8.00	2.50	34.09
G160155097GC	**160.00**	**155.00**	160.00	9.70	2.50	34.09
G160155100GC	**160.00**	**155.00**	160.00	10.00	2.50	34.09
G160155123GC	**160.00**	**155.00**	160.00	12.30	2.50	32.80
G160155150GC	**160.00**	**155.00**	160.00	15.00	2.50	43.97
G160155150GC-ESC*	**160.00**	**155.00**	160.00	15.00	2.50	43.97
G160155250GC*	**160.00**	**155.00**	160.00	25.00	2.50	53.41
G165157150GC	**165.00**	**157.00**	165.00	15.00	4.00	53.39
G165157600GC*	**165.00**	**157.00**	165.00	60.00	4.00	62.68
G165158097GC*	**165.00**	**158.00**	165.00	9.70	3.50	48.53
G165159300GC	**165.00**	**159.00**	165.00	30.00	3.00	74.80
G165160150GC*	**165.00**	**160.00**	165.00	15.00	2.50	41.04
G165160200GC	**165.00**	**160.00**	165.00	20.00	2.50	53.39
G165160250GC	**165.00**	**160.00**	165.00	25.00	2.50	53.39
G166160200GC*	**166.00**	**160.00**	166.00	20.00	3.00	46.50
G166160300GC*	**166.00**	**160.00**	166.00	30.00	3.00	78.49
G168160400GC*	**168.00**	**160.00**	168.00	40.00	4.00	43.02
G170162097GC	**170.00**	**162.00**	170.00	9.70	4.00	34.47
G170162150GC	**170.00**	**162.00**	170.00	15.00	4.00	43.88
G170162250GC	**170.00**	**162.00**	170.00	25.00	4.00	56.44
G170162400GC*	**170.00**	**162.00**	170.00	40.00	4.00	89.68

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G170162500GC	**170.00**	**162.00**	170.00	50.00	4.00	102.00
G170163150GC*	**170.00**	**163.00**	170.00	15.00	3.50	75.84
G170163200GC*	**170.00**	**163.00**	170.00	20.00	3.50	65.39
G170163300GC*	**170.00**	**163.00**	170.00	30.00	3.50	81.86
G170163400GC*	**170.00**	**163.00**	170.00	40.00	3.50	69.23
G170164095GC	**170.00**	**164.00**	170.00	9.50	3.00	35.51
G170164500GC*	**170.00**	**164.00**	170.00	50.00	3.00	89.68
G170165097GC	**170.00**	**165.00**	170.00	9.70	2.50	34.47
G170165100GC*	**170.00**	**165.00**	170.00	10.00	2.50	41.37
G170165150GC	**170.00**	**165.00**	170.00	15.00	2.50	56.44
G170165250GC	**170.00**	**165.00**	170.00	25.00	2.50	74.09
G170165300GC*	**170.00**	**165.00**	170.00	30.00	2.50	74.09
G170165450GC	**170.00**	**165.00**	170.00	45.00	2.50	76.79
G175167250GC*	**175.00**	**167.00**	175.00	25.00	4.00	68.20
G175170110GC*	**175.00**	**170.00**	175.00	11.00	2.50	297.20
G175170200GC	**175.00**	**170.00**	175.00	20.00	2.50	44.47
G175170250GC*	**175.00**	**170.00**	175.00	25.00	2.50	37.61
G175170850GC	**175.00**	**170.00**	175.00	85.00	2.50	244.80
G176170400GC*	**176.00**	**170.00**	176.00	40.00	3.00	78.14
G180170460GC*	**180.00**	**170.00**	180.00	46.00	5.00	141.56
G180172090GC	**180.00**	**172.00**	180.00	9.00	4.00	30.40
G180172220GC	**180.00**	**172.00**	180.00	22.00	4.00	93.94
G180172250GC	**180.00**	**172.00**	180.00	25.00	4.00	93.94
G180172400GC	**180.00**	**172.00**	180.00	40.00	4.00	95.84
G180172450GC*	**180.00**	**172.00**	180.00	45.00	4.00	95.84
G180172550GC	**180.00**	**172.00**	180.00	55.00	4.00	101.09
G180173150GC*	**180.00**	**173.00**	180.00	15.00	3.50	81.05
G180173270GC*	**180.00**	**173.00**	180.00	27.00	3.50	95.84
G180174130GC*	**180.00**	**174.00**	180.00	13.00	3.00	36.16
G180174150GC	**180.00**	**174.00**	180.00	15.00	3.00	29.81
G180174190GC	**180.00**	**174.00**	180.00	19.00	3.00	61.24
G180174195GC*	**180.00**	**174.00**	180.00	19.50	3.00	93.94
G180174200GC	**180.00**	**174.00**	180.00	20.00	3.00	93.94
G180174300GC	**180.00**	**174.00**	180.00	30.00	3.00	95.84
G180175080GC*	**180.00**	**175.00**	180.00	8.00	2.50	21.90
G180175097GC	**180.00**	**175.00**	180.00	9.70	2.50	25.89
G180175100GC*	**180.00**	**175.00**	180.00	10.00	2.50	36.16
G180175150GC	**180.00**	**175.00**	180.00	15.00	2.50	32.99
G180175250GC	**180.00**	**175.00**	180.00	25.00	2.50	46.92
G181175400GC*	**181.00**	**175.00**	181.00	40.00	3.00	63.09
G185173225GC*	**185.00**	**173.00**	185.00	22.50	6.00	48.40
G185177200GC*	**185.00**	**177.00**	185.00	20.00	4.00	55.25
G185177250GC*	**185.00**	**177.00**	185.00	25.00	4.00	60.34
G185180110GC	**185.00**	**180.00**	185.00	11.00	2.50	247.28
G185180165GC	**185.00**	**180.00**	185.00	16.50	2.50	73.50
G185180250GC	**185.00**	**180.00**	185.00	25.00	2.50	107.54

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G186180300GC*	**186.00**	**180.00**	186.00	30.00	3.00	60.54
G186180250GC	**186.00**	**180.00**	186.00	40.00	3.00	53.47
G186180500GC*	**186.00**	**180.00**	186.00	50.00	3.00	63.10
G186180600GC*	**186.00**	**180.00**	186.00	60.00	3.00	84.60
G188180250GC*	**188.00**	**180.00**	188.00	25.00	4.00	78.24
G190180230GC	**190.00**	**180.00**	190.00	23.00	5.00	60.96
G190182097GC*	**190.00**	**182.00**	190.00	9.70	4.00	40.85
G190182250GC	**190.00**	**182.00**	190.00	25.00	4.00	63.10
G190182450GC*	**190.00**	**182.00**	190.00	45.00	4.00	92.25
G190182550GC	**190.00**	**182.00**	190.00	55.00	4.00	122.68
G190183300GC*	**190.00**	**183.00**	190.00	30.00	3.50	97.79
G190184150GC	**190.00**	**184.00**	190.00	15.00	3.00	60.64
G190184300GC*	**190.00**	**184.00**	190.00	30.00	3.00	84.98
G190185097GC	**190.00**	**185.00**	190.00	9.70	2.50	52.65
G190185150GC	**190.00**	**185.00**	190.00	15.00	2.50	63.10
G198190400GC*	**198.00**	**190.00**	198.00	40.00	4.00	63.10
G200188225GC	**200.00**	**188.00**	200.00	22.50	6.00	76.79
G200190400GC-SC*	**200.00**	**190.00**	200.00	40.00	5.00	75.75
G200192090GC*	**200.00**	**192.00**	200.00	9.00	4.00	25.20
G200192097GC*	**200.00**	**192.00**	200.00	9.70	4.00	54.49
G200192220GC	**200.00**	**192.00**	200.00	22.00	4.00	100.32
G200192250GC*	**200.00**	**192.00**	200.00	25.00	4.00	105.73
G200192285GC*	**200.00**	**192.00**	200.00	28.50	4.00	93.24
G200192450GC	**200.00**	**192.00**	200.00	45.00	4.00	119.14
G200193250GC	**200.00**	**193.00**	200.00	25.00	3.50	94.29
G200193600GC*	**200.00**	**193.00**	200.00	60.00	3.50	106.09
G200193600GC-1*	**200.00**	**193.50**	200.00	60.00	3.25	138.26
G200194150GC*	**200.00**	**194.00**	200.00	15.00	3.00	54.60
G200194188GC*	**200.00**	**194.00**	200.00	18.87	3.00	75.75
G200194195GC	**200.00**	**194.00**	200.00	19.50	3.00	75.75
G200194200GC	**200.00**	**194.00**	200.00	20.00	3.00	98.57
G200194250GC*	**200.00**	**194.00**	200.00	25.00	3.00	109.04
G200194300GC*	**200.00**	**194.00**	200.00	30.00	3.00	109.04
G200194500GC*	**200.00**	**194.00**	200.00	50.00	3.00	119.14
G200195097GC	**200.00**	**195.00**	200.00	9.70	2.50	48.40
G200195150GC	**200.00**	**195.00**	200.00	15.00	2.50	65.26
G200195150GC-ESC	**200.00**	**195.00**	200.00	15.00	2.50	65.26
G200195200GC	**200.00**	**195.00**	200.00	20.00	2.50	98.57
G200195250GC	**200.00**	**195.00**	200.00	25.00	2.50	109.04
G200195400GC*	**200.00**	**195.00**	200.00	40.00	2.50	119.14
G203197190GC*	**203.00**	**197.00**	203.00	19.00	3.00	89.36
G205200150GC	**205.00**	**200.00**	205.00	15.00	2.50	111.24
G205200250GC	**205.00**	**200.00**	205.00	25.00	2.50	106.43
G205200120GC	**205.00**	**200.00**	205.00	120.00	2.50	392.07
G208200250GC*	**208.00**	**200.00**	208.00	25.00	4.00	81.13
G210202090GC	**210.00**	**202.00**	210.00	9.00	4.00	38.43

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G210202282GC	**210.00**	**202.00**	210.00	28.20	4.00	120.08
G210204200GC	**210.00**	**204.00**	210.00	20.00	3.00	115.08
G210205097GC*	**210.00**	**205.00**	210.00	9.70	2.50	96.64
G215207097GC	**215.00**	**207.00**	215.00	9.70	4.00	96.64
G215207500GC*	**215.00**	**207.00**	215.00	50.00	4.00	134.63
G215208220GC*	**215.00**	**208.00**	215.00	22.00	3.50	111.47
G215209200GC	**215.00**	**209.00**	215.00	20.00	3.00	100.05
G215210200GC	**215.00**	**210.00**	215.00	20.00	2.50	89.71
G215210400GC*	**215.00**	**210.00**	215.00	40.00	2.50	141.46
G218212600GC*	**218.00**	**212.00**	218.00	60.00	3.00	125.24
G220200400GC-SC*	**220.00**	**200.00**	220.00	40.00	10.00	127.29
G220208120GC*	**220.00**	**208.00**	220.00	120.00	6.00	312.23
G220210150GC*	**220.00**	**210.00**	220.00	15.00	5.00	98.82
G220210400GC-SC*	**220.00**	**210.00**	220.00	40.00	5.00	129.73
G220210500GC*	**220.00**	**210.00**	220.00	50.00	5.00	136.99
G220212285GC	**220.00**	**212.00**	220.00	28.50	4.00	110.68
G220212300GC*	**220.00**	**212.00**	220.00	30.00	4.00	119.81
G220213600GC*	**220.00**	**213.00**	220.00	60.00	3.50	154.86
G220214200GC*	**220.00**	**214.00**	220.00	20.00	3.00	108.80
G220214250GC	**220.00**	**214.00**	220.00	25.00	3.00	113.91
G220214300GC*	**220.00**	**214.00**	220.00	30.00	3.00	119.81
G220214400GC*	**220.00**	**214.00**	220.00	40.00	3.00	129.73
G220214600GC*	**220.00**	**214.00**	220.00	60.00	3.00	148.47
G225217097GC*	**225.00**	**217.00**	225.00	9.70	4.00	82.15
G225217250GC	**225.00**	**217.00**	225.00	25.00	4.00	116.99
G225217500GC	**225.00**	**217.00**	225.00	50.00	4.00	139.79
G225218250GC*	**225.00**	**218.00**	225.00	25.00	3.50	106.05
G225219200GC*	**225.00**	**219.00**	225.00	20.00	3.00	113.86
G225220200GC	**225.00**	**220.00**	225.00	20.00	2.50	111.28
G225220250GC	**225.00**	**220.00**	225.00	25.00	2.50	109.56
G228220200GC*	**228.00**	**220.00**	228.00	20.00	4.00	117.32
G230220400GC*	**230.00**	**220.00**	230.00	40.00	5.00	112.37
G230221400GC*	**230.00**	**221.00**	230.00	40.00	4.50	129.69
G230222150GC	**230.00**	**222.00**	230.00	15.00	4.00	94.70
G230222300GC*	**230.00**	**222.00**	230.00	30.00	4.00	127.36
G230222500GC*	**230.00**	**222.00**	230.00	50.00	4.00	151.57
G230224250GC	**230.00**	**224.00**	230.00	25.00	3.00	68.76
G230225249GC*	**230.00**	**225.00**	230.00	24.90	2.50	120.63
G230225250GC	**230.00**	**225.00**	230.00	25.00	2.50	71.76
G235229300GC*	**235.00**	**229.00**	235.00	30.00	3.00	133.44
G235230250GC*	**235.00**	**230.00**	235.00	25.00	2.50	91.23
G236230300GC*	**236.00**	**230.00**	236.00	30.00	3.00	133.44
G238230600GC*	**238.00**	**230.00**	238.00	60.00	4.00	194.24
G240230250GC*	**240.00**	**230.00**	240.00	25.00	5.00	111.54
G240232145GC*	**240.00**	**232.00**	240.00	14.50	4.00	110.41
G24023425OGC	**240.00**	**234.00**	240.00	25.00	3.00	121.36

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GC series - PR

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G240235250GC	**240.00**	**235.00**	240.00	25.00	2.50	126.57
G248240250GC*	**248.00**	**240.00**	248.00	25.00	4.00	116.20
G248240300GC*	**248.00**	**240.00**	248.00	30.00	4.00	141.72
G248240600GC*	**248.00**	**240.00**	248.00	60.00	4.00	205.12
G250238275GC*	**250.00**	**238.00**	250.00	27.50	6.00	97.24
G250238130GC	**250.00**	**238.00**	250.00	130.00	6.00	459.50
G250241500GC*	**250.00**	**241.00**	250.00	50.00	4.50	157.01
G250242145GC*	**250.00**	**242.00**	250.00	14.50	4.00	81.48
G250242250GC*	**250.00**	**242.00**	250.00	25.00	4.00	133.44
G250242300GC*	**250.00**	**242.00**	250.00	30.00	4.00	156.51
G250242400GC*	**250.00**	**242.00**	250.00	40.00	4.00	196.24
G250242500GC*	**250.00**	**242.00**	250.00	50.00	4.00	206.88
G250242550GC	**250.00**	**242.00**	250.00	55.00	4.00	208.59
G250244195GC	**250.00**	**244.00**	250.00	19.50	3.00	126.70
G250244245GC	**250.00**	**244.00**	250.00	24.50	3.00	146.61
G250244250GC	**250.00**	**244.00**	250.00	25.00	3.00	146.61
G250244350GC*	**250.00**	**244.00**	250.00	35.00	3.00	180.88
G250244500GC	**250.00**	**244.00**	250.00	50.00	3.00	206.88
G250245250GC	**250.00**	**245.00**	250.00	25.00	2.50	133.44
G250245300GC	**250.00**	**245.00**	250.00	30.00	2.50	139.48
G255247600GC*	**255.00**	**247.00**	255.00	60.00	4.00	212.11
G258250300GC*	**258.00**	**250.00**	258.00	30.00	4.00	159.92
G260248275GC*	**260.00**	**248.00**	260.00	27.50	6.00	151.87
G260251500GC*	**260.00**	**251.00**	260.00	50.00	4.50	182.01
G260252097GC	**260.00**	**252.00**	260.00	9.70	4.00	82.30
G260252150GC*	**260.00**	**252.00**	260.00	15.00	4.00	105.44
G260252350GC	**260.00**	**252.00**	260.00	35.00	4.00	142.32
G260254300GC*	**260.00**	**254.00**	260.00	30.00	3.00	163.81
G260255250GC	**260.00**	**255.00**	260.00	25.00	2.50	144.62
G260255300GC	**260.00**	**255.00**	260.00	30.00	2.50	163.81
G265260150GC*	**265.00**	**260.00**	265.00	15.00	2.50	91.60
G265260250GC	**265.00**	**260.00**	265.00	25.00	2.50	163.82
G270262300GC*	**270.00**	**262.00**	270.00	30.00	4.00	164.31
G275270150GC*	**275.00**	**270.00**	275.00	15.00	2.50	93.80
G280272097GC*	**280.00**	**272.00**	280.00	9.70	4.00	83.37
G280272145GC*	**280.00**	**272.00**	280.00	14.50	4.00	117.78
G280272150GC*	**280.00**	**272.00**	280.00	15.00	4.00	120.38
G280272200GC	**280.00**	**272.00**	280.00	20.00	4.00	157.00
G280272300GC*	**280.00**	**272.00**	280.00	30.00	4.00	169.82
G280272500GC*	**280.00**	**272.00**	280.00	50.00	4.00	201.91
G280272600GC*	**280.00**	**272.00**	280.00	60.00	4.00	157.58
G280274300GC	**280.00**	**274.00**	280.00	30.00	3.00	163.17
G280275250GC	**280.00**	**275.00**	280.00	25.00	2.50	165.53
G280275300GC*	**280.00**	**275.00**	280.00	30.00	2.50	169.82
G283275560GC*	**283.00**	**275.00**	283.00	56.00	4.00	231.28
G285280150GC	**285.00**	**280.00**	285.00	15.00	2.50	121.74

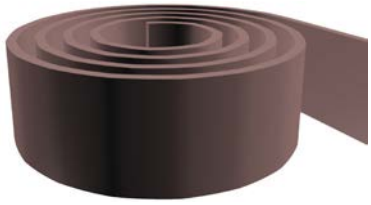
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G288280250GC*	**288.00**	**280.00**	288.00	25.00	4.00	166.80
G288280300GC*	**288.00**	**280.00**	288.00	30.00	4.00	172.80
G289280127GC*	**289.00**	**280.00**	289.00	12.70	4.50	167.42
G29028530GC	**290.00**	**285.00**	290.00	30.00	2.50	168.00
G295290097GC*	**295.00**	**290.00**	295.00	9.70	2.50	120.02
G30028830GC	**300.00**	**288.00**	300.00	30.00	6.00	141.81
G30029023GC	**300.00**	**290.00**	300.00	23.00	5.00	145.11
G300292200GC*	**300.00**	**292.00**	300.00	20.00	4.00	155.62
G30029230GC	**300.00**	**292.00**	300.00	30.00	4.00	173.91
G300292400GC*	**300.00**	**292.00**	300.00	40.00	4.00	190.21
G30029260GC	**300.00**	**292.00**	300.00	60.00	4.00	306.59
G300294350GC*	**300.00**	**294.00**	300.00	35.00	3.00	194.47
G30029525GC	**300.00**	**295.00**	300.00	25.00	2.50	169.90
G300295350GC*	**300.00**	**295.00**	300.00	35.00	2.50	194.47
G305300250GC*	**305.00**	**300.00**	305.00	25.00	2.50	159.02
G30830025GC	**308.00**	**300.00**	308.00	25.00	4.00	117.65
G308300750GC*	**308.00**	**300.00**	308.00	75.00	4.00	333.48
G31030220GC	**310.00**	**302.00**	310.00	20.00	4.00	164.60
G3103043GC	**310.00**	**304.00**	310.00	35.00	3.00	172.70
G320308297GC	**320.00**	**308.00**	320.00	29.70	6.00	266.29
G32031225GC	**320.00**	**312.00**	320.00	25.00	4.00	172.28
G320312600GC*	**320.00**	**312.00**	320.00	60.00	4.00	237.92
G32031525GC	**320.00**	**315.00**	320.00	25.00	2.50	172.28
G330320250GC-SC*	**330.00**	**320.00**	330.00	25.00	5.00	172.28
G33032525GC	**330.00**	**325.00**	330.00	250.00	2.50	172.28
G34033225GC	**340.00**	**332.00**	340.00	25.00	4.00	176.90
G3403343GC	**340.00**	**334.00**	340.00	35.00	3.00	215.60
G345340250GC*	**345.00**	**340.00**	345.00	25.00	2.50	175.98
G350340250GC*	**350.00**	**340.00**	350.00	25.00	5.00	164.98
G350342300GC*	**350.00**	**342.00**	350.00	30.00	4.00	223.42
G35034275GC	**350.00**	**342.00**	350.00	75.00	4.00	460.76
G35034525GC	**350.00**	**345.00**	350.00	25.00	2.50	184.49
G358350550GC*	**358.00**	**350.00**	358.00	55.00	4.00	232.21
G36035225GC	**360.00**	**352.00**	360.00	25.00	4.00	204.11
G3603544GC	**360.00**	**354.00**	360.00	40.00	3.00	262.87
G360355250GC*	**360.00**	**355.00**	360.00	25.00	2.50	202.00
G360355400GC*	**360.00**	**355.00**	360.00	40.00	2.50	262.87
G365360250GC	**365.00**	**360.00**	365.00	25.00	2.50	213.70
G380372250GC*	**380.00**	**372.00**	380.00	25.00	4.00	219.05
G380372500GC*	**380.00**	**372.00**	380.00	50.00	4.00	278.27
G385380094GC	**385.00**	**380.00**	385.00	9.40	2.50	124.18
G385380245GC	**385.00**	**380.00**	385.00	24.50	2.50	300.49
G390384400GC*	**390.00**	**384.00**	390.00	40.00	3.00	341.54
G400392300GC*	**400.00**	**392.00**	400.00	30.00	4.00	285.75
G400392400GC*	**400.00**	**392.00**	400.00	40.00	4.00	312.64
G400392750GC*	**400.00**	**392.00**	400.00	75.00	4.00	510.39

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

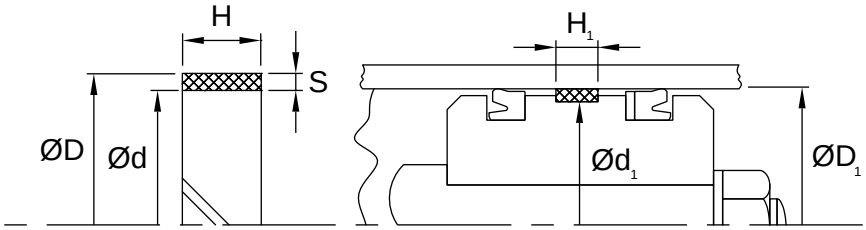
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G400395250GC	**400.00**	**395.00**	400.00	25.00	2.50	227.43
G400395300GC	**400.00**	**395.00**	400.00	30.00	2.50	258.00
G420412250GC	**420.00**	**412.00**	420.00	25.00	4.00	201.48
G420414600GC	**420.00**	**414.00**	420.00	60.00	3.00	412.46
G425417195GC	**425.00**	**417.00**	425.00	19.50	4.00	194.66
G440432250GC*	**440.00**	**432.00**	440.00	25.00	4.00	420.60

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G440432400GC*	**440.00**	**432.00**	440.00	40.00	4.00	244.88
G480470300GC*	**480.00**	**470.00**	480.00	30.00	5.00	296.66
G480474600GC*	**480.00**	**474.00**	480.00	60.00	3.00	470.26
G480475250GC*	**480.00**	**475.00**	480.00	25.00	2.50	324.63
G496490300GC*	**496.00**	**490.00**	496.00	30.00	3.00	296.66

WS-BR60 - Wear Strip - Metric



Standard Material	Temperature Range	Pressure Range	Surface Speed
60% BR.PTFE	-400°F to +550°F (-250°C to +287°C)	≤1400 psi (≤96 bar)	<50 ft/s (15 m/s)



The **WS-BR60-style** is made of fluorinated polymer and fortified bronze (other fillers available upon request). Designed to eliminate scoring in hydraulic and pneumatic applications by preventing metal to metal contact; **WS-Wear strip** is effectively used for reciprocating, rotary and oscillating motion. The tape form allows the product to be installed economically, whether for new installation or repair. **The PTFE wear tape compound and width determines allowable radial load and velocity ranges. Velocity : Up to 50 ft/s**.

Alternate Materials : For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS0040025/BR60	4.00	+ 0.00 - 0.25	2.50	+ 0.00 - 0.13	15.90
WS0050015/BR60*	5.00		1.50		21.60
WS0050040/BR60	5.00		4.00		27.87
WS0056015/BR60	5.60		1.50		14.23
WS0056020/BR60*	5.60		2.00		17.63
WS0056025/BR60	5.60		2.50		19.76

Increments of 1 ft

Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS0056030/BR60*	5.60	+ 0.00 - 0.25	3.00	+ 0.00 - 0.13	22.70
WS0056035/BR60*	5.60		3.50		39.05
WS0056040/BR60	5.60		4.00		44.58
WS0060015/BR60	6.00		1.50		15.06
WS0060020/BR60	6.00		2.00		30.33
WS0060025/BR60	6.00		2.50		19.58

Increments of 1 ft

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WS-BR60 series - 60 % BR.PTFE

Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS0060030/BR60*	6.00	+ 0.00 - 0.25	3.00	+ 0.00 - 0.13	27.49
WS0060035/BR60*	6.00		3.50		40.14
WS0060040/BR60	6.00		4.00		43.80
WS0079015/BR60	7.90		1.50		15.69
WS0079020/BR60	7.90		2.00		31.16
WS0079025/BR60	7.90		2.50		23.60
WS0079030/BR60*	7.90		3.00		28.79
WS0079035/BR60*	7.90		3.50		41.53
WS0079040/BR60*	7.90		4.00		40.90
WS0080025/BR60	8.00		2.50		34.78
WS0080040/BR60	8.00		4.00		57.14
WS0090040/BR60	9.00		4.00		49.09
WS0095015/BR60*	9.50		1.50		16.33
WS0095020/BR60	9.50		2.00		19.28
WS0095025/BR60	9.50		2.50		19.01
WS0095030/BR60	9.50		3.00		39.97
WS0095035/BR60*	9.50		3.50		43.47
WS0095040/BR60	9.50		4.00		42.60
WS0097015/BR60	9.70		1.50		17.00
WS0097020/BR60	9.70		2.00		19.56
WS0097025/BR60	9.70		2.50		43.39
WS0097030/BR60	9.70		3.00		31.84
WS0097035/BR60*	9.70		3.50		45.05
WS0097040/BR60	9.70		4.00		41.45
WS0100015/BR60*	10.00		1.50		27.14
WS0100020/BR60	10.00		2.00		23.90
WS0118015/BR60*	11.80		1.50		17.90
WS0118020/BR60*	11.80		2.00		21.70
WS0118025/BR60*	11.80		2.50		27.97
WS0118030/BR60	11.80		3.00		33.78
WS0118035/BR60*	11.80		3.50		46.87
WS0118040/BR60	11.80		4.00		54.04
WS0120025/BR60	12.00		2.50		25.00
WS0120030/BR60*	12.00		3.00		25.82
WS0130015/BR60*	13.00		1.50		18.55
WS0130020/BR60	13.00		2.00		23.44

Increments of 1 ft

Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS0130025/BR60	13.00	+ 0.00 - 0.25	2.50	+ 0.00 - 0.13	29.07
WS0130030/BR60	13.00		3.00		34.05
WS0130035/BR60*	13.00		3.50		48.91
WS0130040/BR60	13.00		4.00		59.23
WS0140015/BR60*	14.00		1.50		18.93
WS0140020/BR60*	14.00		2.00		27.14
WS0140025/BR60	14.00		2.50		30.18
WS0140030/BR60*	14.00		3.00		36.00
WS0140035/BR60*	14.00		3.50		61.20
WS0140040/BR60*	14.00		4.00		64.15
WS0145040/BR60	14.50		4.00		61.26
WS0150010/BR60*	15.00		1.00		26.80
WS0150015/BR60	15.00		1.50		31.41
WS0150020/BR60	15.00		2.00		26.80
WS0150025/BR60	15.00		2.50		31.89
WS0150030/BR60*	15.00		3.00		38.39
WS0150035/BR60*	15.00		3.50		56.57
WS0150040/BR60	15.00		4.00		68.01
WS0195040/BR60*	19.50		4.00		62.69
WS0200015/BR60*	20.00		1.50		42.83
WS0200020/BR60	20.00		2.00		23.79
WS0200025/BR60	20.00		2.50		37.02
WS0200030/BR60*	20.00		3.00		41.34
WS0200035/BR60*	20.00		3.50		59.23
WS0200040/BR60*	20.00		4.00		70.69
WS0250015/BR60*	25.00		1.50		22.98
WS0250020/BR60	25.00		2.00		48.48
WS0250025/BR60	25.00		2.50		56.01
WS0250030/BR60	25.00		3.00		48.17
WS0250035/BR60	25.00		3.50		62.47
WS0250040/BR60	25.00		4.00		78.25
WS0300015/BR60	30.00		1.50		47.12
WS0300025/BR60	30.00		2.50		45.00
WS0350025/BR60*	35.00		2.50		62.80
WS0500020/BR60*	50.00		2.00		59.20

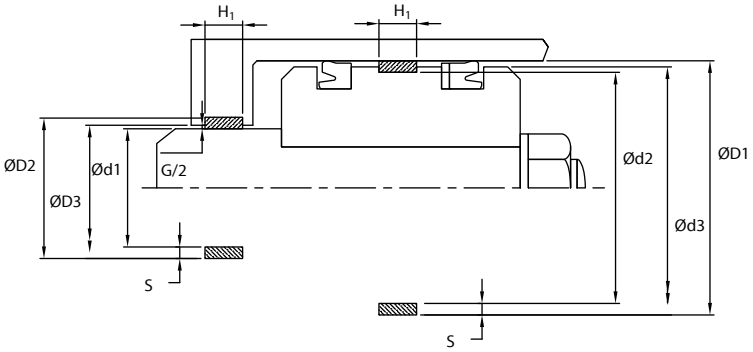
Increments of 1 ft

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WS-PR - Wear Strip - Metric



Standard Material	Temperature Range	Compressive Strength	Surface Speed
Polyester Resin	-40°F to +250°F (-40°C to +121°C)	≤60 000 psi (≤4138 bar)	<3.3 ft/s (1 m/s)



Made from fabric-reinforced polyester resin, the **WS-PR-style** bearing strip is designed for heavy-duty hydraulic systems. It eliminates metal-to-metal contact and resists scoring in reciprocating, oscillating, and rotary motion. Micro-indentations on the surface retain fluid for built-in lubrication. Compatible with mineral oils, water-based fluids, and phosphate esters.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Operating Conditions		
Limiting PV Values Lubricated	Speed m/sec	Pressure bar
	0.1	100
	1.0	60
	5.0	8
Typical Physical Properties		
Specific Gravity	1.27	
Compression Stress Ultimate	450 MN/m² @ 23°C	
Compression Stress in service	115 MN/m² @ 23°C	
Compression Stress in service	58 MN/m² @ 80°C	
Coefficient of Thermal Conductivity	0.27 W/mK	
Coefficient of Thermal Expansion - Thickness	9 X 10^{-5} per °C	
Coefficient of Thermal Expansion - Length	13 X 10^{-5} per °C	
Coefficient of Dynamic Friction on Steel	Dry 0.50	
	Lubricated 0.06	
Bearing Strip Tolerances	**L_1 mm**	**S mm**
	-0.10 -0.60	-0.02 -0.08

Width of Bearing Split - W	**Ød,, ØD, mm**	**W mm**
	≤50	3.00 - 1.50
	≤120	5.00 - 3.50
	≤250	9.00 - 7.25
	≤550	17.00 - 15.00

Housing Details & Tolerances		
Rod	$Ød_1$ mm	f9
	$ØD_2 = Ød_1 + 2S$ mm	≤ Ø80.00 H10 > Ø80.00 H9
	$ØD_3 = Ød_1 + G$ mm	G min/max
	L_1 mm	+0.20 -0
	Max Fillet Rad r_1 mm	0.40
Piston	$Ød_1$ mm	H11
	$ØD_2 = Ød_1 - 2S$ mm	f9
	$ØD_3 = Ød_1 - G$ mm	G min/max
	L_1 mm	+0.20 -0
	Max Fillet Rad r_1 mm	0.40

Housing Surface Roughness	**µinRa**	**µinRz**	**µinRt**
Dynamic Sealing Face $Ød_1$, $ØD_1$	0.4	1.6 max	4 max
Static Sealing Face $ØD_2$, L_1, $Ød_1$	3.2 max	10 max	16 max

WS-PR series - PR

Ref.Number	Nominal Seal Dimensions				$
	H1	S	d1	D1	
WS0056025/PR1	5.60	2.50	25.00 - 30.00	35.00 - 70.00	15.66
WS0056025/PR2	5.60	2.50	25.00 - 50.00	55.00 - 110.00	15.66
WS0056025/PR3	5.60	2.50	50.00 - 100.00	105.00 - 210.00	15.66
WS0097025/PR1	9.70	2.50	25.00 - 40.00	45.00 - 90.00	16.36
WS0097025/PR2	9.70	2.50	35.00 - 70.00	75.00 - 150.00	16.36
WS0097025/PR3	9.70	2.50	70.00 - 150.00	155.00 - 310.00	16.36
WS0097030/PR1*	9.70	3.00	40.00 - 50.00	56.00 - 100.00	16.38
WS0097030/PR2*	9.70	3.00	50.00 - 100.00	106.00 - 210.00	16.38
WS0097030/PR3*	9.70	3.00	100.00 - 150.00	156.00 - 310.00	16.38
WS0097040/PR1*	9.70	4.00	60.00 - 80.00	88.00 - 170.00	17.09
WS0097040/PR2*	9.70	4.00	80.00 - 150.00	158.00 - 310.00	17.09
WS0097040/PR3*	9.70	4.00	150.00 - 250.00	258.00 - 510.00	17.09
WS0100020/PR1*	10.00	2.00	25.00 - 41.00	45.00 - 90.00	18.29
WS0100020/PR2*	10.00	2.00	35.00 - 70.00	74.00 - 160.00	18.29
WS0100020/PR3*	10.00	2.00	70.00 - 155.00	159.00 - 310.00	18.29
WS0128030/PR1*	12.80	3.00	50.00 - 60.00	66.00 - 120.00	17.09
WS0128030/PR2*	12.80	3.00	60.00 - 104.00	110.00 - 220.00	17.09
WS0128030/PR3*	12.80	3.00	90.00 - 149.00	155.00 - 300.00	17.09
WS0130025/PR1*	13.00	2.50	40.00 - 50.00	55.00 - 110.00	19.41
WS0130025/PR2*	13.00	2.50	50.00 - 100.00	105.00 - 210.00	19.41
WS0130025/PR3*	13.00	2.50	90.00 - 180.00	185.00 - 370.00	19.41
WS0150020/PR1*	15.00	2.00	35.00 - 50.00	54.00 - 110.00	23.06
WS0150020/PR2*	15.00	2.00	50.00 - 100.00	104.00 - 210.00	23.06
WS0150020/PR3*	15.00	2.00	90.00 - 180.00	184.00 - 370.00	23.06
WS0150025/PR1*	15.00	2.50	40.00 - 50.00	55.00 - 110.00	20.48
WS0150025/PR2	15.00	2.50	50.00 - 100.00	105.00 - 210.00	20.48
WS0150025/PR3	15.00	2.50	90.00 - 180.00	185.00 - 370.00	20.48
WS0150030/PR1*	15.00	3.00	50.00 - 75.00	81.00 - 160.00	20.48
WS0200025/PR1	20.00	2.50	50.00 - 80.00	85.00 - 170.00	27.20
WS0200025/PR2	20.00	2.50	75.00 - 150.00	155.00 - 310.00	27.20
WS0200025/PR3*	20.00	2.50	125.00 - 250.00	255.00 - 510.00	27.20
WS0200030/PR1*	20.00	3.00	55.00 - 80.00	86.00 - 170.00	20.34
WS0200030/PR2*	20.00	3.00	80.00 - 150.00	156.00 - 310.00	20.34
WS0200030/PR3*	20.00	3.00	140.00 - 250.00	256.00 - 510.00	20.34
WS0200040/PR1*	20.00	4.00	60.00 - 80.00	88.00 - 170.00	22.99
WS0200040/PR2*	20.00	4.00	80.00 - 150.00	158.00 - 310.00	23.70
WS0200040/PR3*	20.00	4.00	150.00 - 250.00	258.00 - 510.00	28.58
WS0250025/PR1*	25.00	2.50	60.00 - 80.00	85.00 - 170.00	28.07
WS0250025/PR2*	25.00	2.50	70.00 - 150.00	155.00 - 310.00	28.07
WS0250025/PR3*	25.00	2.50	125.00 - 250.00	255.00 - 510.00	28.07
WS0250040/PR1*	25.00	4.00	120.00 - 150.00	158.00 - 310.00	47.54
WS0250040/PR2*	25.00	4.00	150.00 - 250.00	258.00 - 510.00	47.54
WS0300040/PR1*	30.00	4.00	120.00 - 150.00	158.00 - 310.00	47.20
WS0300040/PR2*	30.00	4.00	150.00 - 250.00	258.00 - 510.00	47.20

Increments of 1 ft	Increments of 1 ft

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

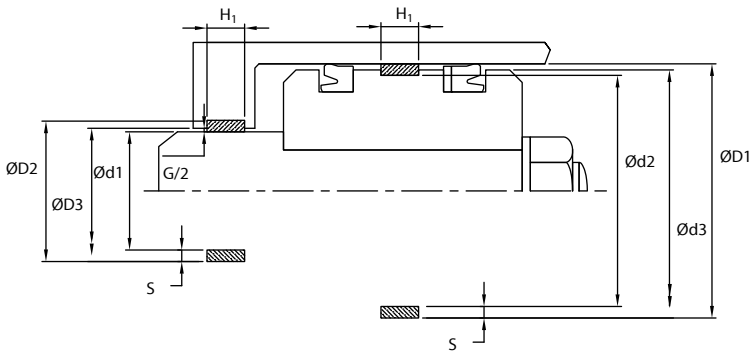
Ref.Number	Nominal Seal Dimensions				$
	H1	S	d1	D1	
WS0400040/PR1*	40.00	4.00	170.00 - 200.00	208.00 - 410.00	46.08
WS0400040/PR2*	40.00	4.00	200.00 - 300.00	308.00 - 610.00	46.08

Increments of 1 ft	Increments of 1 ft

WS-PR-BOX - Wear Strip - Metric



Standard Material	Temperature Range	Compressive Strength	Surface Speed
Polyester Resin	-40°F to +250°F (-40°C to +121°C)	≤60 000 psi (≤4138 bar)	<3.3 ft/s (1 m/s)



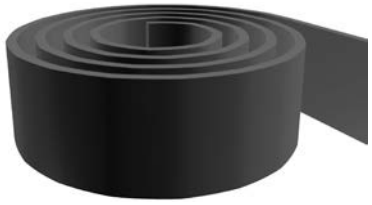
Same as **WR-PR-style** but packaged in a dispenser for ease of storage and handling, flat coils are supplied in 10 metre lengths suitable for a wide range of diameters and are ideal for those using or supplying one off bearings for small volume requirements.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

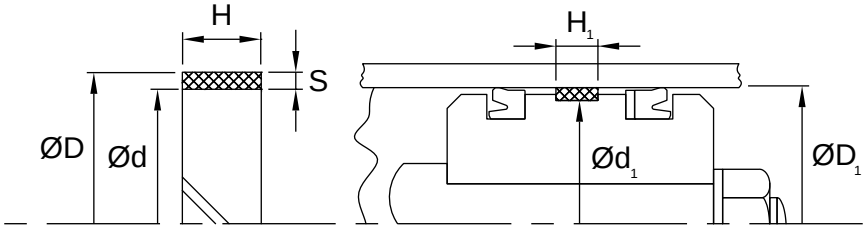
Ref.Number	Nominal Seal Dimensions				$
	H1	S	d1	D1	
WS0056025-PR/BOX*	5.60	2.50	140.00	230.00	525.94
WS0097025-PR/BOX	9.70	2.50	140.00	230.00	549.25
WS0097030-PR/BOX*	9.70	3.00	140.00	240.00	544.62
WS0130025-PR/BOX*	13.00	2.50	140.00	230.00	644.55
WS0150020-PR/BOX*	15.00	2.00	140.00	210.00	747.65
WS0150025-PR/BOX	15.00	2.50	140.00	230.00	689.52
WS0200025-PR/BOX*	20.00	2.50	140.00	230.00	914.14
WS0200030-PR/BOX*	20.00	3.00	140.00	240.00	935.41
WS0200040-PR/BOX*	20.00	4.00	140.00	240.00	938.60
WS0250025-PR/BOX	25.00	2.50	140.00	230.00	942.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WS-C - Wear Strip - Metric



Standard Material	Temperature Range	Surface Speed
25% Carbon Graphite PTFE	-400°F to +545°F (-240°C to +285°C)	<49.21 ft/s (15 m/s)



The **WS-C** wear tape is skived filled carbon PTFE film to guide a rod or piston to avoid metal on metal contact in dry or lubricated applications. A gap should intentionally be calculated in the cut length to allow fluid flow to and from the seal gland and prevent pressure trap or hydrolock between the seal and wear ring.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

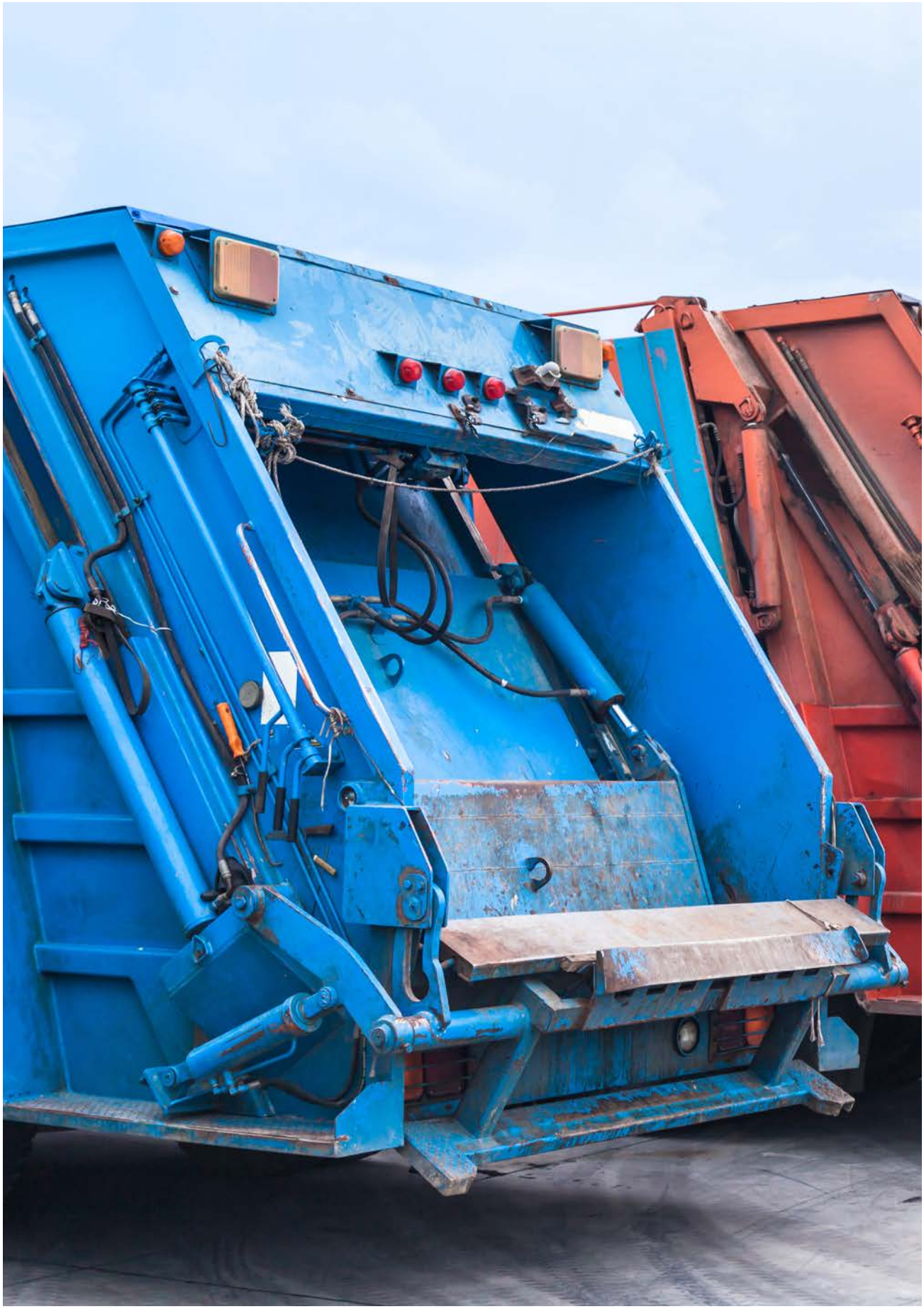
Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS0060040/C25	**6.00**	+ 0.00 - 0.25	4.00	+ 0.00 - 0.13	45.82
WS0080040/C25*	**8.00**		4.00		47.22
WS0090040/C25*	**9.00**		4.00		52.43
WS0095040/C25*	**9.50**		4.00		52.43

Increments of 1 ft

Ref.Number	Nominal Seal Dimensions				$
	H	Tol.	S	Tol.	
WS0145040/C25*	**14.50**	+ 0.00 - 0.25	4.00	+ 0.00 - 0.13	68.78
WS0150025/C25*	**15.00**		2.50		68.78
WS0195040/C25*	**19.50**		4.00		73.72
WS0250040/C25	**25.00**		4.00		81.82

Increments of 1 ft

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



"DV" BEARING CHART

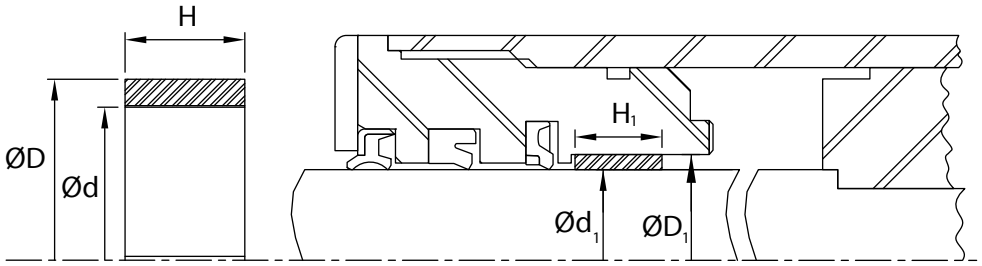
Nominal Bearing Bore	Recommended Shaft Dia.	Recommended Housing Bore	Installed Bearing ID*	Bearing length and Part Number											
2	2.000 1.994	3.500 3.508	2.000 2.048	3	GMB 0203DV	5	GMB 0205DV								
3	3.000 2.994	4.500 4.508	3.000 3.048	3	GMB 0303DV	5	GMB 0305DV	6	GMB 0306DV						
4	4.000 3.992	5.500 5.508	4.000 4.048	3	GMB 0403DV	4	GMB 0404DV	6	GMB 0406DV	10	GMB 0410DV				
5	4.990 4.978	7.000 7.015	4.990 5.055	5	GMB 0505DV	8	GMB 0508DV	10	GMB 0510DV						
6	5.990 5.978	8.000 8.015	5.990 6.055	6	GMB 0606DV	8	GMB 0608DV	10	GMB 0610DV						
7	6.987 6.972	9.000 9.015	6.990 7.055	10	GMB 0710DV										
8	7.987 7.972	10.000 10.015	7.990 8.055	8	GMB 0808DV	10	GMB 0810DV	12	GMB 0812DV						
10	9.987 9.972	12.000 12.018	9.990 10.058	8	GMB 1008DV	10	GMB 1010DV	12	GMB 1012DV	15	GMB 1015DV	20	GMB 1020DV		
12	11.984 11.966	14.000 14.018	11.990 12.058	8	GMB 1208DV	10	GMB 1210DV	12	GMB 1212DV	15	GMB 1215DV	20	GMB 1220DV	25	GMB 1225DV
13	12.984 12.966	15.000 15.018	12.990 13.058	10	GMB 1310DV	20	GMB 1320DV								
14	13.984 13.966	16.000 16.018	13.990 14.058	5	GMB 1405DV	10	GMB 1410DV	12	GMB 1412DV	15	GMB 1415DV	20	GMB 1402DV	25	GMB 1425DV
15	14.984 14.966	17.000 17.018	14.990 15.058	10	GMB 1510DV	12	GMB 1512DV	15	GMB 1515DV	20	GMB 1520DV	25	GMB 1525DV		
16	15.984 15.966	18.000 18.018	15.990 16.058	10	GMB 1610DV	12	GMB 1612DV	15	GMB 1615DV	20	GMB 1620DV	25	GMB 1625DV		
17	16.984 16.966	19.000 19.021	16.990 17.061	20	GMB 1720DV										
18	17.984 17.966	20.000 20.021	17.990 18.061	15	GMB 1815DV	20	GMB 1820DV	25	GMB 1825DV						
20	19.980 19.959	23.000 23.021	19.990 20.062	10	GMB 2010DV	15	GMB 2015DV	20	GMB 2020DV	25	GMB 2025DV	30	GMB 2030DV		
22	21.980 21.959	25.000 25.021	21.990 22.071	15	GMB 2215DV	20	GMB 2220DV	25	GMB 2225DV	30	GMB 2230DV				
24	23.980 23.959	27.000 27.021	23.990 24.071	15	GMB 2415DV	20	GMB 2420DV	25	GMB 2425DV	30	GMB 2430DV				
25	24.980 24.959	28.000 28.021	24.990 25.071	15	GMB 2515DV	20	GMB 2520DV	25	GMB 2525DV	30	GMB 2530DV	50	GMB 2550DV		
28	27.980 27.959	32.000 32.025	27.990 28.085	15	GMB 2815DV	20	GMB 2820DV	25	GMB 2825DV	30	GMB 2830DV				
30	29.980 29.959	34.000 34.025	29.990 30.085	15	GMB 3015DV	20	GMB 3020DV	25	GMB 3025DV	30	GMB 3030DV	40	GMB 3040DV		
32	31.975 31.950	36.000 36.025	31.990 32.085	20	GMB 3220DV	30	GMB 3230DV	40	GMB 3240DV						
35	34.975 34.950	39.000 39.025	34.990 35.085	20	GMB 3520DV	30	GMB 3530DV	35	GMB 3535DV	40	GMB 3540DV	50	GMB 3550DV		
37	36.975 36.950	41.000 41.025	36.990 37.085	20	GMB 3720DV										
40	39.975 39.950	44.000 44.025	39.990 40.085	20	GMB 4020DV	30	GMB 4030DV	40	GMB 4040DV	50	GMB 4545DV				
45	44.975 44.950	50.000 50.025	44.990 45.105	20	GMB 4520DV	30	GMB 4530DV	40	GMB 4540DV	45	GMB 4545DV	50	GMB 4550DV		

Nominal Bearing Bore	Recommended Shaft Dia.	Recommended Housing Bore	Installed Bearing ID*	Bearing length and Part Number									
50	49.975 49.950	55.000 55.030	49.990 50.110	**20**	GMB 5020DV	**30**	GMB 5030DU	**40**	GMB 5040DU	**50**	GMB 5050DV	**60**	GMB 5060DV
55	54.970 54.940	60.000 60.030	54.990 55.110	**20**	GMB 5520DV	**30**	GMB 5530DV	**40**	GMB 5540DV	**55**	GMB 5555DV	**60**	GMB 5560DV
60	59.970 59.940	65.000 65.030	59.990 60.110	**20**	GMB 6020DV	**30**	GMB 6030DV	**40**	GMB 6040DV	**60**	GMB 6060DV	**70**	GMB 6070DV
65	64.970 64.940	70.000 70.030	64.990 65.110	**30**	GMB 6530DV	**50**	GMB 6550DV	**70**	GMB 6570DV				
70	69.970 69.940	75.000 75.030	69.990 70.110	**40**	GMB 7040DV	**50**	GMB 7050DV	**70**	GMB 7070DV				
75	74.970 74.940	80.000 80.030	74.990 75.110	**60**	GMB 7560DV	**80**	GMB 7580DV						
80	80.000 79.954	85.000 85.035	80.010 80.145	**60**	GMB 8060DV	**100**	GMB 80100DV						
85	85.000 84.946	90.000 90.035	85.010 85.145	**30**	GMB 8530DV	**60**	GMB 8560DV	**100**	GMB 85100DV				
90	90.000 89.946	95.000 95.035	90.010 90.145	**60**	GMB 9060DV	**100**	GMB 90100DV						
95	95.000 94.946	100.000 100.035	95.010 95.145	**60**	GMB 9560DV	**100**	GMB 95100DV						
100	100.000 99.946	105.000 105.035	100.010 100.145	**60**	GMB 10060DV	**115**	GMB 100115DV						
105	105.000 104.946	110.000 110.035	105.010 105.145	**60**	GMB 10560DV	**115**	GMB 105115DV						
110	110.000 109.946	115.000 115.03	110.010 110.045	**60**	GMB 11060DV	**115**	GMB 110115DV						
115	115.000 114.946	120.000 120.035	115.010 115.145	**50**	GMB 11550DV	**70**	GMB 11570DV						
120	120.000 119.946	125.000 125.040	120.048 120.220	**50**	GMB 12050DV	**60**	GMB 12060DV	**100**	GMB 120100DV				
125	125.000 124.937	130.000 130.040	125.048 125.220	**100**	GMB 125100DV								
130	130.000 129.937	135.000 135.040	130.048 130.220	**60**	GMB 13060DV	**100**	GMB 130100DV						
135	135.000 134.937	140.000 140.040	135.048 135.220	**60**	GMB 13560DV	**80**	GMB 13580DV						
140	140.000 134.937	145.000 145.040	140.048 140.220	**60**	GMB 14060DV	**100**	GMB 140100DV						
150	150.000 149.937	155.000 155.040	150.048 150.220	**60**	GMB 15060DV	**80**	GMB 15080DV	**100**	GMB 150100DV				
160	160.000 159.937	165.000 165.040	160.048 160.220	**80**	GMB 16080DV	**100**	GMB 160100DV						
180	180.000 179.937	185.000 185.046	180.048 180.220	**100**	GMB 180100DV								
200	200.000 199.928	205.000 205.046	200.048 200.226	**100**	GMB 200100DV								
210	210.000 209.928	215.000 215.046	210.048 210.226	**100**	GMB 210100DV								
220	220.000 219.928	225.000 225.046	220.048 220.226	**100**	GMB 220100DV								
250	250.000 249.928	255.000 255.052	250.048 250.032	**100**	GMB 250100DV								
300	300.000 299.919	305.000 305.052	300.048 300.232	**100**	GMB 300100DV								

“DV” BEARING - Metric



Standard Material	Temperature Range	Compressive Strength	Surface Speed
BR.PTFE/Steel	-328°F to +536°F (-200°C to +280°C)	≤44 000 psi (≤3035 bar)	< 8.2 ft/s (2.5 m/s) dry < 33 ft/s (10 m/s) lubricated



“DV” bearings are self-lubricating, metal-backed plain bearings with very good wear and friction performance over a wide range of loads, speeds and temperature conditions. They are suitable for linear. oscillating and rotating movements

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
GMB010010DV*	**10.00**	12.00	10.00	2.31
GMB010012DV*	**10.00**	12.00	12.00	2.44
GMB012020DV*	**12.00**	14.00	20.00	3.13
GMB016015DV*	**16.00**	18.00	15.00	3.35
GMB016020DV*	**16.00**	18.00	20.00	3.79
GMB016025DV*	**16.00**	18.00	25.00	4.41
GMB018020DV*	**18.00**	20.00	20.00	4.03
GMB020015DV*	**20.00**	23.00	15.00	4.58
GMB020020DV*	**20.00**	23.00	20.00	5.57
GMB020025DV*	**20.00**	23.00	25.00	6.14
GMB020030DV*	**20.00**	23.00	30.00	6.77
GMB020040DV*	**20.00**	23.00	40.00	8.60
GMB022020DV*	**22.00**	25.00	20.00	5.19
GMB022025DV	**22.00**	25.00	25.00	4.99
GMB025015DV	**25.00**	28.00	15.00	4.98
GMB025020DV*	**25.00**	28.00	20.00	5.26
GMB025025DV	**25.00**	28.00	25.00	6.78
GMB025030DV*	**25.00**	28.00	30.00	7.98
GMB025040DV*	**25.00**	28.00	40.00	9.37
GMB028025DV*	**28.00**	32.00	25.00	9.14
GMB030020DV	**30.00**	34.00	20.00	9.08
GMB030025DV	**30.00**	34.00	25.00	9.19

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
GMB030030DV	**30.00**	34.00	30.00	9.87
GMB030040DV	**30.00**	34.00	40.00	12.56
GMB032040DV	**32.00**	36.00	40.00	11.69
GMB035025DV	**35.00**	39.00	25.00	10.21
GMB035030DV	**35.00**	39.00	30.00	11.68
GMB035035DV*	**35.00**	39.00	35.00	10.05
GMB035050DV*	**35.00**	39.00	50.00	17.81
GMB038032DV*	**38.00**	42.00	32.00	12.89
GMB040025DV	**40.00**	44.00	25.00	11.58
GMB040030DV	**40.00**	44.00	30.00	13.56
GMB040035DV	**40.00**	44.00	35.00	13.56
GMB040040DV	**40.00**	44.00	40.00	13.63
GMB040050DV*	**40.00**	44.00	50.00	20.11
GMB045020DV	**45.00**	50.00	20.00	11.58
GMB045025DV	**45.00**	50.00	25.00	16.09
GMB045030DV	**45.00**	50.00	30.00	15.90
GMB045040DV	**45.00**	50.00	40.00	18.87
GMB045050DV*	**45.00**	50.00	50.00	22.14
GMB050012DV*	**50.00**	55.00	12.00	10.40
GMB050020DV	**50.00**	55.00	20.00	25.74
GMB050025DV	**50.00**	55.00	25.00	17.76
GMB050030DV	**50.00**	55.00	30.00	19.27

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

"DV" BEARING - BR.PTFE/STEEL

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
GMB050040DV	**50.00**	55.00	40.00	23.83
GMB050050DV	**50.00**	55.00	50.00	29.29
GMB050060DV	**50.00**	55.00	60.00	30.98
GMB055012DV*	**55.00**	60.00	12.00	10.78
GMB055025DV	**55.00**	60.00	25.00	17.02
GMB055030DV	**55.00**	60.00	30.00	22.76
GMB055040DV	**55.00**	60.00	40.00	24.19
GMB055050DV*	**55.00**	60.00	50.00	29.52
GMB055060DV*	**55.00**	60.00	60.00	34.34
GMB060030DV	**60.00**	65.00	30.00	23.13
GMB060035DV	**60.00**	65.00	35.00	25.55
GMB060040DV	**60.00**	65.00	40.00	30.03
GMB060050DV	**60.00**	65.00	50.00	33.35
GMB060070DV*	**60.00**	65.00	70.00	44.43
GMB060080DV*	**60.00**	65.00	80.00	46.76
GMB065015DV*	**65.00**	70.00	15.00	16.01
GMB065030DV	**65.00**	70.00	30.00	26.94
GMB065035DV	**65.00**	70.00	35.00	30.94
GMB065040DV	**65.00**	70.00	40.00	31.84
GMB065060DV	**65.00**	70.00	60.00	41.18
GMB070015DV*	**70.00**	75.00	15.00	25.10
GMB070020DV*	**70.00**	75.00	20.00	26.76
GMB070030DV	**70.00**	75.00	30.00	30.40
GMB070035DV	**70.00**	75.00	35.00	30.93
GMB070040DV	**70.00**	75.00	40.00	36.62
GMB070050DV	**70.00**	75.00	50.00	40.16
GMB070070DV*	**70.00**	75.00	70.00	53.58
GMB075015DV	**75.00**	80.00	15.00	27.83
GMB075025DV	**75.00**	80.00	25.00	28.32
GMB075030DV	**75.00**	80.00	30.00	33.63
GMB075035DV*	**75.00**	80.00	35.00	35.59
GMB075040DV	**75.00**	80.00	40.00	38.42
GMB075050DV*	**75.00**	80.00	50.00	43.05
GMB075060DV	**75.00**	80.00	60.00	51.06
GMB075080DV*	**75.00**	80.00	80.00	56.74
GMB080015DV*	**80.00**	85.00	15.00	38.46
GMB080025DV*	**80.00**	85.00	25.00	34.59
GMB080030DV	**80.00**	85.00	30.00	38.77
GMB080040DV	**80.00**	85.00	40.00	42.15
GMB080050DV	**80.00**	85.00	50.00	47.99
GMB080060DV*	**80.00**	85.00	60.00	54.82
GMB085030DV	**85.00**	90.00	30.00	43.08
GMB085040DV	**85.00**	90.00	40.00	45.98
GMB085050DV*	**85.00**	90.00	50.00	50.99
GMB085060DV*	**85.00**	90.00	60.00	56.13
GMB085070DV*	**85.00**	90.00	70.00	65.92

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
GMB085100DV*	**85.00**	90.00	100.00	75.39
GMB090020DV*	**90.00**	95.00	20.00	39.51
GMB090030DV	**90.00**	95.00	30.00	41.54
GMB090035DV	**90.00**	95.00	35.00	48.81
GMB090040DV	**90.00**	95.00	40.00	53.05
GMB090045DV*	**90.00**	95.00	45.00	56.32
GMB090050DV*	**90.00**	95.00	50.00	61.90
GMB090060DV	**90.00**	95.00	60.00	66.40
GMB095030DV	**95.00**	100.00	30.00	46.80
GMB095035DV	**95.00**	100.00	35.00	52.47
GMB095040DV	**95.00**	100.00	40.00	55.05
GMB095050DV	**95.00**	100.00	50.00	59.23
GMB095060DV	**95.00**	100.00	60.00	63.93
GMB095100DV*	**95.00**	100.00	100.00	95.31
GMB100020DV*	**100.00**	105.00	20.00	36.78
GMB100030DV	**100.00**	105.00	30.00	51.70
GMB100035DV	**100.00**	105.00	35.00	64.13
GMB100040DV	**100.00**	105.00	40.00	64.63
GMB100050DV	**100.00**	105.00	50.00	73.85
GMB100060DV*	**100.00**	105.00	60.00	84.98
GMB100070DV*	**100.00**	105.00	70.00	86.15
GMB105035DV	**105.00**	110.00	35.00	55.16
GMB105040DV	**105.00**	110.00	40.00	58.15
GMB105050DV	**105.00**	110.00	50.00	70.45
GMB105060DV*	**105.00**	110.00	60.00	80.87
GMB110020DV*	**110.00**	115.00	20.00	52.73
GMB110030DV*	**110.00**	115.00	30.00	46.58
GMB110035DV*	**110.00**	115.00	35.00	56.88
GMB110040DV	**110.00**	115.00	40.00	65.37
GMB110045DV*	**110.00**	115.00	45.00	74.93
GMB110050DV	**110.00**	115.00	50.00	104.83
GMB110055DV	**110.00**	115.00	55.00	109.10
GMB110060DV	**110.00**	115.00	60.00	112.00
GMB110070DV	**110.00**	115.00	70.00	122.90
GMB110095DV*	**110.00**	115.00	95.00	138.56
GMB115035DV	**115.00**	120.00	35.00	62.28
GMB115045DV	**115.00**	120.00	45.00	76.27
GMB115050DV	**115.00**	120.00	50.00	82.35
GMB115060DV	**115.00**	120.00	60.00	91.20
GMB115070DV*	**115.00**	120.00	70.00	103.23
GMB120020DV*	**120.00**	125.00	20.00	60.95
GMB120035DV	**120.00**	125.00	35.00	60.34
GMB120040DV	**120.00**	125.00	40.00	80.65
GMB120050DV	**120.00**	125.00	50.00	92.91
GMB120060DV	**120.00**	125.00	60.00	102.82
GMB120070DV	**120.00**	125.00	70.00	104.50

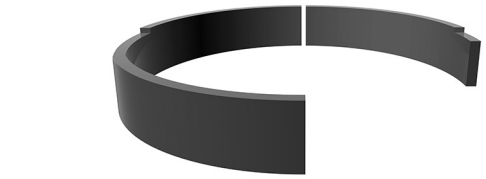
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

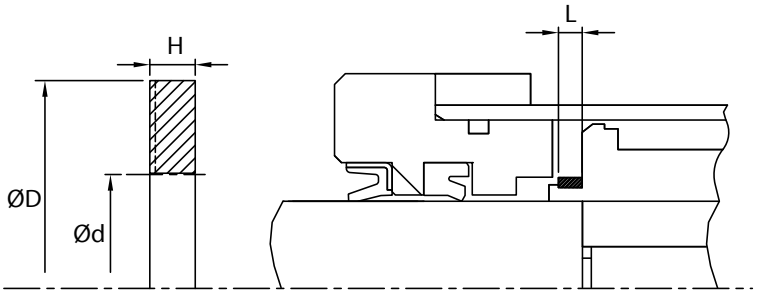
“DV” BEARING - BR.PTFE/STEEL

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
GMB120095DV*	**120.00**	125.00	95.00	129.34
GMB120100DV*	**120.00**	125.00	100.00	147.60
GMB125040DV	**125.00**	130.00	40.00	73.92
GMB125050DV*	**125.00**	130.00	50.00	97.17
GMB125070DV*	**125.00**	130.00	70.00	112.43
GMB125100DV*	**125.00**	130.00	100.00	155.26
GMB130009DV*	**130.00**	135.00	9.70	36.72
GMB130035DV	**130.00**	135.00	35.00	88.31
GMB130040DV	**130.00**	135.00	40.00	92.60
GMB130050DV	**130.00**	135.00	50.00	98.34
GMB130060DV	**130.00**	135.00	60.00	106.99
GMB130065DV	**130.00**	135.00	65.00	110.63
GMB130080DV	**130.00**	135.00	80.00	116.29
GMB130100DV*	**130.00**	135.00	100.00	168.36
GMB135060DV*	**135.00**	140.00	60.00	123.00
GMB135080DV*	**135.00**	140.00	80.00	135.50
GMB140040DV	**140.00**	145.00	40.00	124.10
GMB140050DV	**140.00**	145.00	50.00	131.85
GMB140055DV	**140.00**	145.00	55.00	134.22
GMB140060DV	**140.00**	145.00	60.00	134.76
GMB140070DV	**140.00**	145.00	70.00	146.36
GMB140080DV*	**140.00**	145.00	80.00	149.67
GMB145060DV	**145.00**	150.00	60.00	133.50
GMB150040DV	**150.00**	155.00	40.00	132.24
GMB150060DV	**150.00**	155.00	60.00	135.29
GMB150080DV*	**150.00**	155.00	80.00	163.88
GMB150100DV*	**150.00**	155.00	100.00	196.10
GMB160015DV/SC	**160.00**	165.00	15.00	78.65
GMB160040DV	**160.00**	165.00	40.00	141.83
GMB160050DV	**160.00**	165.00	50.00	147.07

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
GMB160080DV	**160.00**	165.00	80.00	175.80
GMB170035DV	**170.00**	175.00	35.00	141.25
GMB170040DV	**170.00**	175.00	40.00	139.95
GMB170060DV	**170.00**	175.00	60.00	171.61
GMB170085DV	**170.00**	175.00	85.00	206.09
GMB180050DV	**180.00**	185.00	50.00	181.18
GMB180060DV	**180.00**	185.00	60.00	193.17
GMB180090DV	**180.00**	185.00	90.00	197.11
GMB180120DV*	**180.00**	185.00	120.00	278.96
GMB200020DV*	**200.00**	205.00	20.00	72.68
GMB200050DV	**200.00**	205.00	50.00	194.44
GMB200060DV	**200.00**	205.00	60.00	227.77
GMB200070DV*	**200.00**	205.00	70.00	253.64
GMB210020DV	**210.00**	215.00	20.00	83.74
GMB210060DV*	**210.00**	215.00	60.00	237.80
GMB210075DV	**210.00**	215.00	75.00	298.82
GMB220015DV*	**220.00**	225.00	15.00	75.41
GMB220060DV*	**220.00**	225.00	60.00	325.86
GMB230060DV	**230.00**	235.00	60.00	343.54
GMB240110DV	**240.00**	245.00	110.00	455.63
GMB250070DV	**250.00**	255.00	70.00	335.78
GMB260070DV*	**260.00**	265.00	70.00	377.72
GMB270015DV*	**270.00**	275.00	15.00	78.84
GMB270070DV*	**270.00**	275.00	70.00	78.84
GMB280015DV	**280.00**	285.00	15.00	69.25
GMB280085DV	**280.00**	285.00	85.00	392.26
GMB300015DV*	**300.00**	305.00	15.00	81.50
GMB300080DV	**300.00**	305.00	80.00	410.94
GMB340100DV	**340.00**	345.00	100.00	905.03

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range	Pressure Range
Nylon	-40°F to +250°F (-40°C to +121°C)	≤ 5000 psi (≤ 345 bar)
Polyester Resin	-22°F to +230°F (-30°C to +110°C)	≤ 5000 psi (≤ 345 bar)
Bronze	N/A	N/A

GE-style is a stepped cushion seal used to slow down extend and retract speeds at the end of the cylinder stroke. Manufactured in various materials and supplied split for ease of assembly.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	D	d	H	
G030025050GE*	**30.00**	24.80	5.00	37.56
G030026050GE*	**30.00**	25.80	5.00	35.81
G038032060GE-1	**38.00**	31.80	6.00	36.96
G038033060GE*	**38.00**	33.00	6.00	40.46
G039034060GE	**38.85**	33.65	6.00	34.56
G045039060GE	**45.00**	38.76	6.00	34.10
G046040060GE	**46.00**	40.00	6.00	33.00
G046041060GE	**46.00**	41.00	6.00	25.99
G052046060GE*	**52.00**	46.00	6.00	38.34
G055049060GE*	**55.00**	49.00	6.00	20.40
G060054060GE	**60.00**	54.00	6.00	33.42
G064062060GE*	**64.00**	61.50	6.00	42.80
G065059060GE	**65.00**	58.80	6.00	42.80
G065060060GE	**65.00**	60.00	6.00	40.46
G066056080GE*	**65.60**	56.10	8.00	39.10
G069059060GE	**69.00**	59.00	6.00	35.49
G069063060GE	**69.00**	63.00	6.00	42.80
G070065060GE*	**70.00**	65.00	6.00	44.94
G071061080GE	**70.60**	61.10	8.00	39.93
G071065060GE	**70.80**	64.80	6.00	44.09
G072066060GE	**71.50**	65.50	6.00	34.84
G074064060GE*	**74.00**	64.48	6.00	37.03

Ref.Number	Nominal Seal Dimensions			$
	D	d	H	
G074068060GE	**74.00**	68.00	6.00	44.57
G075069060GE	**75.00**	68.80	6.00	45.68
G075070060GE	**75.00**	70.00	6.00	49.92
G079069080GE	**78.85**	68.85	8.00	41.06
G079069100GE*	**79.00**	69.00	10.00	46.31
G080074060GE	**80.00**	73.80	6.00	44.84
G080075060GE	**80.00**	75.00	6.00	54.89
G084074080GE*	**84.00**	74.00	8.00	41.44
G085079060GE*	**85.00**	78.76	6.00	40.46
G085080060GE	**85.00**	80.00	6.00	34.98
G085080060GE-1*	**85.00**	79.70	6.00	40.91
G089079080GE*	**89.00**	79.00	8.00	41.84
G090080100GE*	**90.00**	80.00	10.00	43.87
G090084060GE	**90.00**	83.80	6.00	46.56
G090085060GE*	**90.00**	85.00	6.00	49.99
G094084080GE	**93.70**	83.70	8.00	39.97
G094089060GE*	**94.00**	89.00	6.00	51.99
G095089060GE	**95.00**	88.80	6.00	30.64
G095090060GE	**95.00**	90.00	6.00	32.10
G099088100GE*	**98.80**	88.80	10.00	44.80
G099089080GE	**98.85**	88.85	8.00	42.55
G099089100GE	**98.80**	88.80	10.00	39.29

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

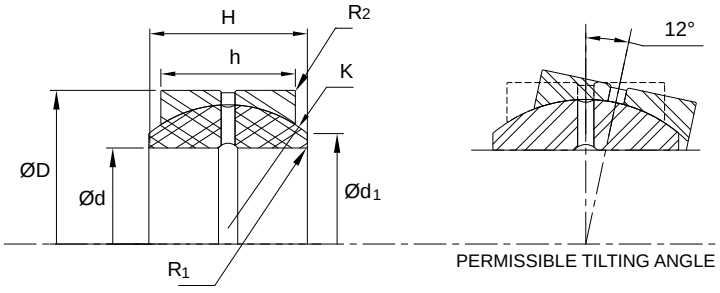
GE series - NYLON/PR/BRONZE

Ref.Number	Nominal Seal Dimensions			$
	D	d	H	
G100094060GE	**100.00**	93.90	6.00	27.98
G100095060GE*	**100.00**	95.00	6.00	38.47
G104094080GE	**103.50**	93.50	8.00	48.21
G1040941000GE	**104.00**	94.00	10.00	41.03
G106100060GE*	**105.70**	99.50	6.00	54.34
G1071020600GE	**107.00**	101.80	6.00	40.32
G1090991000GE	**109.00**	99.00	10.00	44.64
G1101050600GE	**110.00**	105.00	6.00	54.21
G1151050800GE*	**115.00**	105.08	8.00	49.04
G1151090600GE *	**115.00**	109.00	6.00	30.18
G1151090600GE/B*	**115.00**	109.00	6.00	160.95
G1151100600GE*	**115.00**	109.80	6.00	26.84
G1181120600GE*	**117.50**	111.46	6.00	48.40

Ref.Number	Nominal Seal Dimensions			$
	D	d	H	
G1191090800GE	**118.50**	108.50	8.00	49.46
G1201150600GE*	**120.00**	114.80	6.00	40.32
G1211111000GE*	**121.00**	111.00	10.00	41.88
G1221170600GE*	**122.00**	117.00	6.00	46.14
G1281161000GE	**128.00**	116.00	10.00	43.43
G1321201000GE	**132.00**	120.00	10.00	65.43
G1341221000GE*	**134.00**	122.00	10.00	45.83
G1341290600GE/B	**134.00**	129.00	6.00	162.62
G1381261000GE	**138.00**	126.00	10.00	61.41
G1451331000GE	**145.00**	133.00	10.00	73.48
G1491371000GE	**149.17**	137.24	10.00	48.38
G1651531000GE	**164.90**	152.90	10.00	92.73

GE-ES/Z - Spherical Ball bushing - Metric





Standard Material	Temperature Range
Carbon Chromium Steel	-58°F to +302°F (-50°C to +150°C)

without seals

Spherical ball bushings have an inner ring with a sphered convex outside surface and an outer ring with a correspondly sphered but concave inside surface. Their design makes them particulary suitable for bearing arrangements where alignment movements between shaft and housing have to be accomodated, or where oscillating or reccurent tilting or slewing movements must be permitted at relatively slow sliding speeds.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod diameter	Nominal Bearing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
GE4E/Z*	**4.00**	4.00	6.20	12.00	3.00	5.00	8.00	0.50	0.50	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

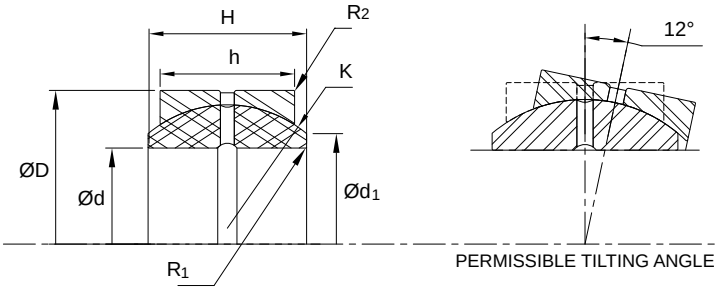
GE-ES/Z series - CARBON CHROMIUM STEEL

Ref.Number	Rod diameter	Nominal Bearing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
GE5E/Z*	**5.00**	5.00	8.00	14.00	4.00	6.00	10.00	0.50	0.50	O/R
GE6E/Z*	**6.00**	6.00	8.00	14.00	4.00	6.00	10.00	0.50	0.50	O/R
GE8E/Z*	**8.00**	8.00	10.20	16.00	5.00	8.00	13.00	0.50	0.50	44.48
GE10E/Z*	**10.00**	10.00	13.20	19.00	6.00	9.00	16.00	0.80	0.50	44.48
GE12E/Z*	**12.00**	12.00	15.00	22.00	7.00	10.00	18.00	0.80	0.80	44.48
GE15ES/Z*	**15.00**	15.00	18.40	26.00	9.00	12.00	22.00	0.80	0.80	44.48
GE17ES/Z*	**17.00**	17.00	20.70	30.00	10.00	14.00	25.00	0.80	0.80	47.92
GE20ES/Z	**20.00**	20.00	24.20	35.00	12.00	16.00	29.00	0.80	1.00	39.03
GE25ES/Z	**25.00**	25.00	29.30	42.00	16.00	20.00	35.50	0.80	1.00	48.59
GE30ES/Z	**30.00**	30.00	34.20	47.00	18.00	22.00	40.70	0.80	1.00	51.44
GE35ES/Z	**35.00**	35.00	39.80	55.00	20.00	25.00	47.00	1.00	1.20	66.62
GE40ES/Z	**40.00**	40.00	45.00	62.00	22.00	28.00	53.00	1.00	1.20	73.53
GE45ES/Z	**45.00**	45.00	50.80	68.00	25.00	32.00	60.00	1.00	1.20	141.24
GE50ES/Z	**50.00**	50.00	56.00	75.00	28.00	35.00	66.00	1.00	1.20	107.38
GE60ES/Z	**60.00**	60.00	66.80	90.00	36.00	44.00	80.00	1.20	1.50	165.83
GE70ES/Z	**70.00**	70.00	77.90	105.00	40.00	49.00	92.00	1.20	1.50	254.01
GE80ES/Z	**80.00**	80.00	89.40	120.00	45.00	55.00	105.00	1.20	1.50	271.37
GE90ES/Z	**90.00**	90.00	98.10	130.00	50.00	60.00	115.00	1.50	1.50	525.19
GE100ES/Z*	**100.00**	100.00	109.50	150.00	55.00	70.00	130.00	1.50	1.50	788.42
GE110ES/Z*	**110.00**	110.00	121.20	160.00	55.00	70.00	140.00	1.50	1.50	832.84
GE120ES/Z*	**120.00**	120.00	135.60	180.00	70.00	85.00	160.00	1.50	1.50	936.20
GE140ES/Z*	**140.00**	140.00	155.90	210.00	70.00	90.00	180.00	1.50	1.50	1081.08
GE160ES/Z*	**160.00**	160.00	170.20	230.00	80.00	105.00	200.00	1.50	1.50	O/R
GE180ES/Z*	**180.00**	180.00	199.00	260.00	80.00	105.00	225.00	2.00	2.00	1545.00
GE200ES/Z*	**200.00**	200.00	213.50	290.00	100.00	130.00	250.00	2.00	2.00	O/R
GE220ES/Z*	**220.00**	220.00	239.60	320.00	100.00	135.00	275.00	2.00	2.00	O/R
GE240ES/Z*	**240.00**	240.00	265.30	340.00	100.00	140.00	300.00	2.00	2.00	O/R
GE260ES/Z*	**260.00**	260.00	288.30	370.00	110.00	150.00	325.00	2.00	2.00	O/R
GE280ES/Z*	**280.00**	280.00	313.80	400.00	120.00	155.00	350.00	2.00	2.00	O/R
GE300ES/Z*	**300.00**	300.00	336.70	430.00	120.00	165.00	375.00	2.00	2.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GE-ES2RS/Z - Spherical Ball bushing - Metric





Standard Material	Temperature Range
Carbon Chromium Steel	-22°F to +266°F (-30°C to +130°C)

with seals

Spherical ball bushings are used to align movements between shaft and housing assemblies, where oscillating. tilting or slewing movements need to be accomodated for at slow sliding speeds.

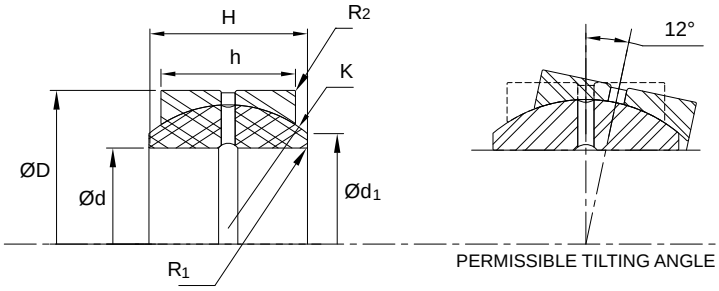
Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod diameter		Nominal Bearing Dimensions								$
		Tol.	d	d1	D	h	H	K	R1	R2	
GE15ES-2RS/Z*	**15.00**	+0.00 -0.04	15.00	18.40	26.00	9.00	12.00	22.00	0.80	0.80	39.74
GE17ES-2RS/Z*	**17.00**		17.00	20.70	30.00	10.00	14.00	25.00	0.80	0.80	41.96
GE20ES-2RS/Z	**20.00**		20.00	24.20	35.00	12.00	16.00	29.00	0.80	1.00	44.17
GE25ES-2RS/Z	**25.00**		25.00	29.30	42.00	16.00	20.00	35.50	0.80	1.00	52.19
GE30ES-2RS/Z	**30.00**		30.00	34.20	47.00	18.00	22.00	40.70	0.80	1.00	64.34
GE35ES-2RS/Z	**35.00**		35.00	39.80	55.00	20.00	25.00	47.00	1.00	1.20	64.34
GE40ES-2RS/Z	**40.00**	+0.00 -0.05	40.00	45.00	62.00	22.00	28.00	53.00	1.00	1.20	63.10
GE45ES-2RS/Z	**45.00**		45.00	50.80	68.00	25.00	32.00	60.00	1.00	1.20	113.51
GE50ES-2RS/Z	**50.00**		50.00	56.00	75.00	28.00	35.00	66.00	1.00	1.20	209.27
GE60ES-2RS/Z	**60.00**		60.00	66.80	90.00	36.00	44.00	80.00	1.20	1.50	215.33
GE70ES-2RS/Z	**70.00**	+0.00/-0.06	70.00	77.90	105.00	40.00	49.00	92.00	1.20	1.50	209.27
GE80ES-2RS/Z	**80.00**	+0.00 -0.09	80.00	89.40	120.00	45.00	55.00	105.00	1.20	1.50	312.19
GE90ES-2RS/Z*	**90.00**		90.00	98.10	130.00	50.00	60.00	115.00	1.50	1.50	402.63
GE100ES-2RS/Z	**100.00**		100.00	109.50	150.00	55.00	70.00	130.00	1.50	1.50	604.45
GE110ES-2RS/Z*	**110.00**	+0.00 -0.13	110.00	121.20	160.00	55.00	70.00	140.00	1.50	1.50	734.29
GE120ES-2RS/Z*	**120.00**		120.00	135.60	180.00	70.00	85.00	160.00	1.50	1.50	1040.13
GE140ES-2RS/Z*	**140.00**		140.00	155.90	210.00	70.00	90.00	180.00	1.50	1.50	1617.20
GE160ES-2RS/Z	**160.00**		160.00	170.20	230.00	80.00	105.00	200.00	1.50	1.50	2028.81
GE180ES-2RS/Z*	**180.00**		180.00	199.00	260.00	80.00	105.00	225.00	2.00	2.00	O/R
GE200ES-2RS/Z*	**200.00**		200.00	213.50	290.00	100.00	130.00	250.00	2.00	2.00	O/R
GE220ES-2RS/Z*	**220.00**		220.00	239.60	320.00	100.00	135.00	275.00	2.00	2.00	O/R
GE240ES-2RS/Z*	**240.00**		240.00	265.30	340.00	100.00	140.00	300.00	2.00	2.00	O/R
GE260ES-2RS/Z*	**260.00**		260.00	288.30	370.00	110.00	150.00	325.00	2.00	2.00	O/R
GE280ES-2RS/Z*	**280.00**		280.00	313.80	400.00	120.00	155.00	350.00	2.00	2.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GE-GS /Z- Spherical Ball bushing - Metric





Standard Material	Temperature Range
Carbon Chromium Steel	-58°F to +302°F (-50°C to +150°C)

without seals

Spherical ball bushings have an inner ring with a sphered convex outside surface and an outer ring with a correspondly sphered but concave inside surface. Their design makes them particulary suitable for bearing arrangements where alignment movements between shaft and housing have to be accomodated, or where oscillating or reccurent tilting or slewing movements must be permitted at relatively slow sliding speeds.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

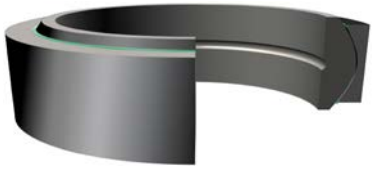
Ref. Number	Rod diameter	Nominal Bearing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
GE6G/Z*	**6.00**	6.00	9.40	16.00	5.00	9.00	13.00	0.50	0.50	O/R
GE8G/Z*	**8.00**	8.00	11.60	19.00	6.00	11.00	16.00	0.50	0.50	O/R
GE10G/Z*	**10.00**	10.00	13.40	22.00	7.00	12.00	18.00	0.80	0.80	44.99
GE12G/Z*	**12.00**	12.00	16.10	26.00	9.00	15.00	22.00	0.80	0.80	54.51
GE15GS/Z*	**15.00**	15.00	19.20	30.00	10.00	16.00	25.00	0.80	0.80	59.86
GE17GS/Z*	**17.00**	17.00	21.00	35.00	12.00	20.00	29.00	0.80	1.00	67.24
GE20GS/Z*	**20.00**	20.00	25.20	42.00	16.00	25.00	35.50	0.80	1.00	81.01
GE25GS/Z*	**25.00**	25.00	29.50	47.00	18.00	28.00	40.70	0.80	1.00	96.98
GE30GS/Z*	**30.00**	30.00	34.40	55.00	20.00	32.00	47.00	0.80	1.20	119.62
GE35GS/Z*	**35.00**	35.00	39.80	62.00	22.00	35.00	53.00	1.00	1.20	142.59
GE40GS/Z	**40.00**	40.00	44.70	68.00	25.00	40.00	60.00	1.00	1.20	167.06
GE45GS/Z	**45.00**	45.00	50.10	75.00	28.00	43.00	66.00	1.00	1.20	198.47
GE50GS/Z*	**50.00**	50.00	57.10	90.00	36.00	56.00	80.00	1.00	1.50	299.95
GE60GS/Z*	**60.00**	60.00	67.10	105.00	40.00	63.00	92.00	1.20	1.50	400.38
GE70GS/Z	**70.00**	70.00	78.30	120.00	45.00	70.00	105.00	1.20	1.50	540.53
GE80GS/Z*	**80.00**	80.00	87.20	130.00	50.00	75.00	115.00	1.20	1.50	697.50
GE90GS/Z*	**90.00**	90.00	98.40	150.00	55.00	85.00	130.00	1.50	1.50	898.49
GE100GS/Z*	**100.00**	100.00	111.20	160.00	55.00	85.00	140.00	1.50	1.50	1051.82
GE110GS/Z*	**110.00**	110.00	124.90	180.00	70.00	100.00	160.00	1.50	1.50	O/R
GE120GS/Z*	**120.00**	120.00	138.50	210.00	70.00	115.00	180.00	1.50	1.50	1132.26
GE140GS/Z*	**140.00**	140.00	152.00	230.00	80.00	130.00	200.00	1.50	1.50	O/R
GE160GS/Z*	**160.00**	160.00	180.00	260.00	80.00	135.00	225.00	1.50	2.00	O/R
GE180GS/Z*	**180.00**	180.00	196.20	290.00	100.00	155.00	250.00	2.00	2.00	O/R
GE200GS/Z*	**200.00**	200.00	220.00	320.00	100.00	165.00	275.00	2.00	2.00	O/R

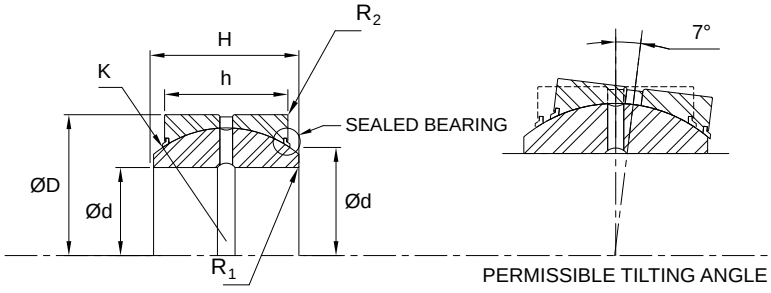
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GE-GS/Z series - STEEL

Ref. Number	Rod diameter		Nominal Bearing Dimensions								$
		Tol.	d	d1	D	h	H	K	R1	R2	
GE220GS/Z*	**220.00**	+ 0.00 - 0.04	220.00	243.70	340.00	100.00	175.00	300.00	2.00	2.00	O/R
GE240GS/Z*	**240.00**		240.00	263.70	370.00	110.00	190.00	325.00	2.00	2.00	O/R
GE260GS/Z*	**260.00**		260.00	283.70	400.00	120.00	205.00	350.00	2.00	2.00	O/R
GE280GS/Z*	**280.00**		280.00	310.70	430.00	120.00	210.00	375.00	2.00	2.00	O/R

GE-GS2RS/Z - Spherical Ball bushing - Metric





Standard Material	Temperature Range
Carbon Chromium Steel	-22°F to +266°F (-30°C to +130°C)

with seals

Similar to **GE-ES2RS/Z**, but with larger housing dimensions.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod diameter	Nominal Bearing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
GE15GS-2RS/Z*	**15.00**	15.00	19.20	30.00	10.00	16.00	25.00	0.80	0.80	68.77
GE17GS-2RS/Z*	**17.00**	17.00	21.00	35.00	12.00	20.00	29.00	0.80	1.00	77.66
GE20GS-2RS/Z*	**20.00**	20.00	25.20	42.00	16.00	25.00	35.50	0.80	1.00	92.39
GE25GS-2RS/Z*	**25.00**	25.00	29.50	47.00	18.00	28.00	40.70	0.80	1.00	109.26
GE30GS-2RS/Z	**30.00**	30.00	34.40	55.00	20.00	32.00	47.00	0.80	1.20	130.19
GE35GS-2RS/Z*	**35.00**	35.00	39.80	62.00	22.00	35.00	53.00	1.00	1.20	165.51
GE40GS-2RS/Z	**40.00**	40.00	44.70	68.00	25.00	40.00	60.00	1.00	1.20	192.56
GE45GS-2RS/Z	**45.00**	45.00	50.10	75.00	28.00	43.00	66.00	1.00	1.20	227.53
GE50GS-2RS/Z*	**50.00**	50.00	57.10	90.00	36.00	56.00	80.00	1.00	1.50	322.05
GE60GS-2RS/Z	**60.00**	60.00	67.10	105.00	40.00	63.00	92.00	1.20	1.50	433.33
GE70GS-2RS/Z*	**70.00**	70.00	78.30	120.00	45.00	70.00	105.00	1.20	1.50	656.17
GE80GS-2RS/Z	**80.00**	80.00	87.20	130.00	50.00	75.00	115.00	1.20	1.50	731.38

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

GE-GS2RS/Z - CARBON CHROMIUM STEEL

Ref.Number	Rod diameter	Nominal Bearing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
GE90GS-2RS/Z*	**90.00**	90.00	98.40	150.00	55.00	85.00	130.00	1.50	1.50	1149.29
GE100GS-2RS/Z*	**100.00**	100.00	111.20	160.00	55.00	85.00	140.00	1.50	1.50	1237.43
GE110GS-2RS/Z*	**110.00**	110.00	124.90	180.00	70.00	100.00	160.00	1.50	1.50	O/R
GE120GS-2RS/Z*	**120.00**	120.00	138.50	210.00	70.00	115.00	180.00	1.50	1.50	1427.09
GE140GS-2RS/Z*	**140.00**	140.00	152.00	230.00	80.00	130.00	200.00	1.50	1.50	O/R
GE160GS-2RS/Z*	**160.00**	160.00	180.00	260.00	80.00	135.00	225.00	1.50	2.00	O/R
GE180GS-2RS/Z*	**180.00**	180.00	196.20	290.00	100.00	155.00	250.00	2.00	2.00	O/R
GE200GS-2RS/Z*	**200.00**	200.00	220.00	320.00	100.00	165.00	275.00	2.00	2.00	O/R
GE220GS-2RS/Z*	**220.00**	220.00	243.70	340.00	100.00	175.00	300.00	2.00	2.00	O/R
GE240GS-2RS/Z*	**240.00**	240.00	263.70	370.00	110.00	190.00	325.00	2.00	2.00	O/R
GE260GS-2RS/Z*	**260.00**	260.00	283.70	400.00	120.00	205.00	350.00	2.00	2.00	O/R
GE280GS-2RS/Z*	**280.00**	280.00	310.70	430.00	120.00	210.00	375.00	2.00	2.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.





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TOLERANCE TO DIN 3771 & ISO 3601/1

Inner ød			Tol.
1.80	...	2.79	± 0.13
2.80	...	4.86	± 0.14
4.87	...	6.69	± 0.15
6.70	...	8.75	± 0.16
8.76	...	10.59	± 0.17
10.60	...	11.79	± 0.18
11.80	...	14.99	± 0.19
15.00	...	16.99	± 0.20
17.00	...	18.99	± 0.21
19.00	...	21.19	± 0.22
21.20	...	22.39	± 0.23
22.40	...	24.99	± 0.24
25.00	...	25.79	± 0.25
25.80	...	27.99	± 0.26
28.00	...	29.99	± 0.28
30.00	...	31.49	± 0.29
31.50	...	32.49	± 0.31
32.50	...	34.49	± 0.32
34.50	...	35.49	± 0.33
35.50	...	36.49	± 0.34
36.50	...	37.49	± 0.35
37.50	...	38.69	± 0.36
38.70	...	39.99	± 0.37
40.00	...	41.19	± 0.38
41.20	...	42.49	± 0.39
42.50	...	43.69	± 0.40
43.70	...	44.99	± 0.41
45.00	...	46.19	± 0.42
46.20	...	47.49	± 0.43
47.50	...	48.69	± 0.44
48.70	...	49.99	± 0.45
50.00	...	51.49	± 0.46
51.50	...	52.99	± 0.47
53.00	...	54.49	± 0.48
54.50	...	55.99	± 0.50
56.00	...	57.99	± 0.51
58.00	...	59.99	± 0.52
60.00	...	61.49	± 0.54
61.50	...	62.99	± 0.55
63.00	...	64.99	± 0.56
65.00	...	66.99	± 0.58
67.00	...	68.99	± 0.59
69.00	...	70.99	± 0.61
71.00	...	72.99	± 0.63
73.00	...	74.99	± 0.64
75.00	...	77.49	± 0.66
77.50	...	79.99	± 0.67
80.00	...	82.49	± 0.69
82.50	...	84.99	± 0.71

Inner ød			Tol.
85.00	...	87.49	± 0.73
87.50	...	89.99	± 0.75
90.00	...	92.49	± 0.77
92.50	...	94.99	± 0.79
95.00	...	97.49	± 0.81
97.50	...	99.99	± 0.83
100.00	...	102.90	± 0.84
103.00	...	105.90	± 0.87
106.00	...	108.90	± 0.89
109.00	...	111.90	± 0.91
112.00	...	114.90	± 0.93
115.00	...	117.90	± 0.95
118.00	...	121.90	± 0.97
122.00	...	124.90	± 1.00
125.00	...	127.90	± 1.03
128.00	...	131.90	± 1.05
132.00	...	135.90	± 1.08
136.00	...	139.90	± 1.10
140.00	...	144.90	± 1.13
145.00	...	149.90	± 1.17
150.00	...	154.90	± 1.20
155.00	...	159.90	± 1.24
160.00	...	164.90	± 1.27
165.00	...	169.90	± 1.31
170.00	...	174.90	± 1.34
175.00	...	179.90	± 1.38
180.00	...	184.90	± 1.41
185.00	...	189.90	± 1.44
190.00	...	194.90	± 1.48
195.00	...	199.90	± 1.51
200.00	...	205.90	± 1.55
206.00	...	211.90	± 1.59
212.00	...	217.90	± 1.63
218.00	...	223.90	± 1.67
224.00	...	229.90	± 1.71
230.00	...	235.90	± 1.75
236.00	...	242.90	± 1.79
243.00	...	249.90	± 1.83
250.00	...	257.90	± 1.88
258.00	...	264.90	± 1.93
265.00	...	271.90	± 1.98
272.00	...	279.90	± 2.02
280.00	...	289.90	± 2.08
290.00	...	299.90	± 2.14
300.00	...	306.90	± 2.21
307.00	...	314.90	± 2.25
315.00	...	324.90	± 2.30
325.00	...	334.90	± 2.37
335.00	...	344.90	± 2.43

Inner ød			Tol.
345.00	...	354.90	± 2.49
355.00	...	364.90	± 2.56
365.00	...	374.90	± 2.62
375.00	...	386.90	± 2.68
387.00	...	399.90	± 2.76
400.00	...	411.90	± 2.84
412.00	...	424.90	± 2.91
425.00	...	436.90	± 2.99
437.00	...	449.90	± 3.07
450.00	...	461.90	± 3.15
462.00	...	474.90	± 3.22
475.00	...	486.90	± 3.30
487.00	...	499.90	± 3.37
500.00	...	514.90	± 3.45
515.00	...	529.90	± 3.54
530.00	...	544.90	± 3.63
545.00	...	559.90	± 3.72
560.00	...	579.90	± 3.81
580.00	...	599.90	± 3.93
600.00	...	614.90	± 4.05
615.00	...	629.90	± 4.13
630.00	...	649.90	± 4.22
650.00	...	669.90	± 4.34
670.00	...	689.90	± 4.46
> 689.90			± 0.65%

Cord ø S			Tol.
< 2,62			± 0.08
> 2,62	...	3.00	± 0.09
> 3,00	...	4.50	± 0.10
> 4,50	...	5.50	± 0.13
> 5,50	...	7.50	± 0.15
> 7,50	...	8.50	± 0.18
> 8,50	...	10.00	± 0.20

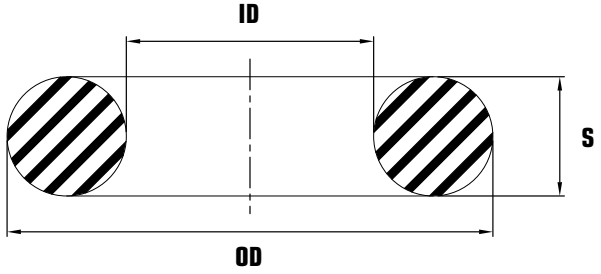
O'RING INSTALLATION DIMENSIONS

O-Ring Cross Section	Radial Static and Dynamic				Axial Static Only		Radius	
	Groove Depth	Groove Width (W)			Groove Depth	Groove Width		
W	D	0 Backup Ring +0.20 / -0.00	1 Backup Ring +0.20 / -0.00	2 Backup Ring +0.20 / -0.00	D	L	Without Backup Ring	With Backup Ring
0.40	0.28	0.60	-	-	0.28	0.60	-	-
0.50	0.35	0.70	-	-	0.35	0.70	-	-
0.60	0.45	0.80	-	-	0.40	0.80	-	-
1.00 & 1.02	0.80	1.40	-	-	0.65	1.40	0.20	0.20
1.10 , 1.12 & 1.15	0.90	1.50	-	-	0.75	1.50	0.20	0.20
1.20	0.95	1.70	-	-	0.80	1.70	0.20	0.20
1.25 & 1.27	1.00	1.80	-	-	0.85	1.80	0.20	0.20
1.30	1.05	1.80	-	-	0.90	1.80	0.20	0.20
1.42 & 1.45	1.15	1.90	-	-	0.95	1.90	0.20	0.20
1.50 & 1.52	1.20	2.10	-	-	1.00	2.10	0.20	0.20
1.57 , 1.60 & 1.63	1.30	2.20	-	-	1.10	2.20	0.30	0.20
1.78 & 1.80	1.45	2.40	3.80	5.20	1.20	2.40	0.40	0.20
1.83	1.50	2.40	3.80	5.20	1.25	2.40	0.50	0.20
1.90 , 1.98 , 2.00 & 2.02	1.65	2.50	3.90	5.30	1.40	2.50	0.50	0.20
2.08 & 2.10	1.70	2.80	4.20	5.60	1.45	2.80	0.50	0.20
2.20 & 2.21	1.85	2.90	4.30	5.70	1.55	2.90	0.50	0.30
2.26	1.85	3.00	4.40	5.80	1.55	3.00	0.50	0.30
2.30	1.90	3.00	4.40	5.80	1.60	3.00	0.50	0.30
2.40	2.00	3.20	4.60	6.00	1.70	3.20	0.50	0.30
2.46	2.05	3.30	4.70	6.10	1.75	3.30	0.50	0.30
2.50	2.10	3.40	4.80	6.20	1.80	3.40	0.50	0.30
2.60 & 2.62	2.25	3.60	5.00	6.40	1.90	3.60	0.60	0.30
2.70 & 2.75	2.30	3.70	5.10	6.50	1.95	3.70	0.60	0.30
2.95 & 3.00	2.50	3.90	5.30	6.70	2.20	3.90	0.80	0.30
3.10 & 3.15	2.70	4.00	5.40	6.80	2.30	4.00	0.80	0.40
3.50 , 3.53 & 3.60	3.10	4.80	6.20	7.60	2.70	4.80	1.00	0.40
4.00	3.50	5.40	7.10	8.80	3.10	5.40	1.00	0.40
4.50	4.00	6.00	7.70	9.40	3.40	6.00	1.00	0.40
5.00	4.30	6.70	8.40	10.10	3.90	6.70	1.00	0.40
5.33	4.70	7.10	8.80	10.50	4.30	7.10	1.20	0.60
5.50	4.80	7.30	9.00	10.70	4.40	7.30	1.20	0.60
5.70 & 5.80	5.00	7.70	9.40	11.10	4.60	7.70	1.20	0.60
6.00	5.30	8.20	9.90	11.60	4.80	8.20	1.20	0.60
6.30 & 6.35	5.60	8.70	10.40	12.10	5.10	8.70	1.20	0.60
6.50	5.70	8.90	10.60	12.30	5.40	8.90	1.20	0.60
7.00	6.10	9.50	12.00	14.50	5.80	9.50	1.50	0.60
7.20	6.20	9.80	12.30	14.80	5.90	9.80	1.50	0.60
7.50	6.50	10.40	12.90	15.40	6.20	10.40	1.50	0.60
8.00	7.00	11.00	13.50	16.00	6.60	11.00	1.50	0.60
8.20	7.10	11.20	13.70	16.20	6.70	11.20	1.50	0.60
8.40	7.50	11.70	14.20	16.70	6.90	11.70	2.00	0.60
9.00	7.80	12.50	15.00	17.50	7.40	12.50	2.00	0.60
9.50	8.30	13.30	15.80	18.30	7.80	13.30	2.00	0.60
10.00	8.70	13.50	16.00	18.50	8.30	13.50	2.00	0.60
11.00	9.60	15.50	18.00	20.50	9.10	15.50	3.00	0.60
12.00	10.50	16.80	19.30	21.80	10.30	16.80	3.00	0.60
14.00	12.20	19.00	21.50	24.00	11.60	19.00	3.00	0.60
15.00	13.20	20.00	22.50	25.00	12.50	20.00	3.00	0.60
16.00	14.00	21.50	24.00	26.00	13.50	21.50	3.00	0.60

O'Rings - NBR 70A - Metric



Standard Material	Temperature Range
Nitrile	-30°F to +250°F (-34°C to +121°C)



O'Rings are toroidal-shaped elastomeric seals used in a variety of applications.
Supplied in 70 durometer nitrile material and in a wide range of available dimensions.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0011010/N*	**1.10**	3.10	1.00	0.16
MOR0015010/N*	**1.50**	3.50	1.00	0.16
MOR0017010/N*	**1.70**	3.70	1.00	0.16
MOR0018010/N*	**1.80**	3.80	1.00	0.16
MOR0018015/N*	**1.80**	4.80	1.50	0.13
MOR0018018/N*	**1.80**	5.40	1.80	0.26
MOR0020010/N	**2.00**	4.00	1.00	0.19
MOR0020015/N*	**2.00**	5.00	1.50	0.13
MOR0020018/N*	**2.00**	5.60	1.80	0.26
MOR0022016/N	**2.20**	5.40	1.60	0.18
MOR0022018/N*	**2.20**	5.80	1.80	0.26
MOR0024019/N*	**2.40**	6.20	1.90	0.11
MOR0025010/N	**2.50**	4.50	1.00	0.19
MOR0025012/N*	**2.50**	4.90	1.20	0.11
MOR0025015/N	**2.50**	5.50	1.50	0.13
MOR0025018/N*	**2.50**	6.10	1.80	0.28
MOR0025020/N*	**2.50**	6.50	2.00	0.13
MOR0026019/N*	**2.60**	6.40	1.90	0.11
MOR0027016/N*	**2.70**	5.90	1.60	0.18
MOR0028015/N*	**2.80**	5.80	1.50	0.13
MOR0028018/N*	**2.80**	6.40	1.80	0.28
MOR0028019/N	**2.80**	6.60	1.90	0.11

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0030010/N	**3.00**	5.00	1.00	0.19
MOR0030015/N	**3.00**	6.00	1.50	0.13
MOR0030020/N	**3.00**	7.00	2.00	0.13
MOR0030030/N*	**3.00**	9.00	3.00	0.14
MOR0031016/N	**3.10**	6.30	1.60	0.18
MOR0031017/N*	**3.10**	6.50	1.70	0.11
MOR0031018/N*	**3.10**	6.70	1.80	0.28
MOR0033024/N*	**3.30**	8.10	2.40	0.14
MOR0034019/N*	**3.40**	7.20	1.90	0.11
MOR0035010/N	**3.50**	5.50	1.00	0.19
MOR0035015/N*	**3.50**	6.50	1.50	0.13
MOR0035018/N*	**3.50**	7.10	1.80	0.28
MOR0035020/N*	**3.50**	7.50	2.00	0.13
MOR0035030/N*	**3.50**	9.50	3.00	0.14
MOR0036024/N*	**3.60**	8.40	2.40	0.14
MOR0037018/N*	**3.70**	7.30	1.80	0.28
MOR0038019/N	**3.80**	7.60	1.90	0.11
MOR0040010/N	**4.00**	6.00	1.00	0.21
MOR0040015/N	**4.00**	7.00	1.50	0.13
MOR0040018/N	**4.00**	7.60	1.80	0.28
MOR0040020/N	**4.00**	8.00	2.00	0.13
MOR0040025/N	**4.00**	9.00	2.50	0.14

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0040030/N	**4.00**	10.00	3.00	0.14
MOR0040040/N*	**4.00**	12.00	4.00	0.19
MOR0040050/N*	**4.00**	14.00	5.00	0.38
MOR0041016/N	**4.10**	7.30	1.60	0.40
MOR0042019/N*	**4.20**	8.00	1.90	0.11
MOR0043024/N	**4.30**	9.10	2.40	0.15
MOR0045010/N*	**4.50**	6.50	1.00	0.21
MOR0045015/N	**4.50**	7.50	1.50	0.14
MOR0045018/N	**4.50**	8.10	1.80	0.28
MOR0045020/N*	**4.50**	8.50	2.00	0.15
MOR0045030/N	**4.50**	10.50	3.00	0.14
MOR0046020/N*	**4.60**	8.60	2.00	0.15
MOR0046024/N*	**4.60**	9.40	2.40	0.15
MOR0046025/N*	**4.60**	9.60	2.50	0.14
MOR0047016/N	**4.70**	7.90	1.60	0.40
MOR0047017/N*	**4.70**	8.10	1.70	0.11
MOR0048018/N*	**4.80**	8.40	1.80	0.28
MOR0048019/N*	**4.80**	8.60	1.90	0.11
MOR0049019/N*	**4.90**	8.70	1.90	0.11
MOR0050010/N	**5.00**	7.00	1.00	0.21
MOR0050015/N	**5.00**	8.00	1.50	0.14
MOR0050016/N*	**5.00**	8.20	1.60	0.40
MOR0050018/N*	**5.00**	8.60	1.80	0.28
MOR0050020/N	**5.00**	9.00	2.00	0.15
MOR0050025/N	**5.00**	10.00	2.50	0.14
MOR0050030/N	**5.00**	11.00	3.00	0.14
MOR0050040/N	**5.00**	13.00	4.00	0.19
MOR0050050/N*	**5.00**	15.00	5.00	0.38
MOR0051016/N	**5.10**	8.30	1.60	0.43
MOR0051018/N*	**5.10**	8.70	1.80	0.28
MOR0053018/N	**5.30**	8.90	1.80	0.28
MOR0053024/N	**5.30**	10.10	2.40	0.15
MOR0055010/N	**5.50**	7.50	1.00	0.21
MOR0055015/N	**5.50**	8.50	1.50	0.14
MOR0055020/N	**5.50**	9.50	2.00	0.15
MOR0055024/N*	**5.50**	10.30	2.40	0.15
MOR0055025/N*	**5.50**	10.50	2.50	0.14
MOR0055030/N	**5.50**	11.50	3.00	0.14
MOR0056018/N*	**5.60**	9.20	1.80	0.28
MOR0056024/N	**5.60**	10.40	2.40	0.15
MOR0057019/N*	**5.70**	9.50	1.90	0.11
MOR0057020/N*	**5.70**	9.70	2.00	0.15
MOR0058019/N*	**5.80**	9.60	1.90	0.11
MOR0060010/N	**6.00**	8.00	1.00	0.21
MOR0060015/N	**6.00**	9.00	1.50	0.14
MOR0060018/N*	**6.00**	9.60	1.80	0.28

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0060020/N	**6.00**	10.00	2.00	0.15
MOR0060022/N*	**6.00**	10.40	2.20	0.13
MOR0060025/N	**6.00**	11.00	2.50	0.14
MOR0060030/N	**6.00**	12.00	3.00	0.14
MOR0060040/N	**6.00**	14.00	4.00	0.19
MOR0060045/N*	**6.00**	15.00	4.50	0.45
MOR0060050/N*	**6.00**	16.00	5.00	0.38
MOR0060060/N*	**6.00**	18.00	6.00	0.77
MOR0061016/N	**6.10**	9.30	1.60	0.43
MOR0063017/N*	**6.30**	9.70	1.70	0.11
MOR0063018/N*	**6.30**	9.90	1.80	0.28
MOR0063024/N	**6.30**	11.10	2.40	0.15
MOR0064019/N	**6.40**	10.20	1.90	0.11
MOR0065010/N	**6.50**	8.50	1.00	0.21
MOR0065015/N	**6.50**	9.50	1.50	0.14
MOR0065020/N	**6.50**	10.50	2.00	0.15
MOR0065025/N*	**6.50**	11.50	2.50	0.14
MOR0065030/N	**6.50**	12.50	3.00	0.14
MOR0066024/N*	**6.60**	11.40	2.40	0.15
MOR0067017/N	**6.70**	10.10	1.70	0.11
MOR0067018/N*	**6.70**	10.30	1.80	0.28
MOR0068019/N	**6.80**	10.60	1.90	0.11
MOR0069018/N*	**6.90**	10.50	1.80	0.28
MOR0070010/N	**7.00**	9.00	1.00	0.23
MOR0070015/N	**7.00**	10.00	1.50	0.14
MOR0070020/N	**7.00**	11.00	2.00	0.15
MOR0070025/N	**7.00**	12.00	2.50	0.14
MOR0070030/N	**7.00**	13.00	3.00	0.15
MOR0070040/N*	**7.00**	15.00	4.00	0.19
MOR0070050/N*	**7.00**	17.00	5.00	0.88
MOR0070060/N*	**7.00**	19.00	6.00	0.77
MOR0071016/N	**7.10**	10.30	1.60	0.43
MOR0071018/N*	**7.10**	10.70	1.80	0.28
MOR0072019/N*	**7.20**	11.00	1.90	0.13
MOR0073024/N*	**7.30**	12.10	2.40	0.15
MOR0075010/N	**7.50**	9.50	1.00	0.23
MOR0075015/N	**7.50**	10.50	1.50	0.14
MOR0075018/N	**7.50**	11.10	1.80	0.28
MOR0075020/N	**7.50**	11.50	2.00	0.15
MOR0075022/N*	**7.50**	11.90	2.20	0.25
MOR0075024/N*	**7.50**	12.30	2.40	0.15
MOR0075025/N	**7.50**	12.50	2.50	0.14
MOR0075030/N*	**7.50**	13.50	3.00	0.15
MOR0076024/N	**7.60**	12.40	2.40	0.15
MOR0078019/N	**7.80**	11.60	1.90	0.13
MOR0079016/N*	**7.90**	11.10	1.60	0.53

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0079017/N*	**7.90**	11.30	1.70	0.11
MOR0080010/N	**8.00**	10.00	1.00	0.23
MOR0080015/N	**8.00**	11.00	1.50	0.14
MOR0080018/N*	**8.00**	11.60	1.80	0.32
MOR0080019/N*	**8.00**	11.80	1.90	0.13
MOR0080020/N	**8.00**	12.00	2.00	0.15
MOR0080025/N	**8.00**	13.00	2.50	0.14
MOR0080030/N	**8.00**	14.00	3.00	0.15
MOR0080035/N	**8.00**	15.00	3.50	0.16
MOR0080040/N	**8.00**	16.00	4.00	0.19
MOR0080045/N*	**8.00**	17.00	4.50	0.49
MOR0080050/N*	**8.00**	18.00	5.00	0.38
MOR0081016/N	**8.10**	11.30	1.60	0.53
MOR0083024/N	**8.30**	13.10	2.40	0.15
MOR0085010/N	**8.50**	10.50	1.00	0.23
MOR0085015/N	**8.50**	11.50	1.50	0.14
MOR0085018/N*	**8.50**	12.10	1.80	0.32
MOR0085020/N*	**8.50**	12.50	2.00	0.15
MOR0085025/N*	**8.50**	13.50	2.50	0.14
MOR0085030/N*	**8.50**	14.50	3.00	0.15
MOR0086020/N*	**8.60**	12.60	2.00	0.15
MOR0086024/N	**8.60**	13.40	2.40	0.16
MOR0087017/N*	**8.70**	12.10	1.70	0.26
MOR0087018/N	**8.70**	12.30	1.80	0.32
MOR0088019/N	**8.80**	12.60	1.90	0.13
MOR0089019/N*	**8.90**	12.70	1.90	0.13
MOR0089027/N*	**8.90**	14.30	2.70	O/R
MOR0090010/N	**9.00**	11.00	1.00	0.23
MOR0090015/N	**9.00**	12.00	1.50	0.14
MOR0090020/N	**9.00**	13.00	2.00	0.15
MOR0090025/N	**9.00**	14.00	2.50	0.14
MOR0090030/N	**9.00**	15.00	3.00	0.16
MOR0090035/N	**9.00**	16.00	3.50	0.26
MOR0090040/N*	**9.00**	17.00	4.00	0.31
MOR0090045/N*	**9.00**	18.00	4.50	0.39
MOR0090050/N*	**9.00**	19.00	5.00	0.45
MOR0090060/N*	**9.00**	21.00	6.00	0.49
MOR0091016/N	**9.10**	12.30	1.60	0.53
MOR0093024/N*	**9.30**	14.10	2.40	0.16
MOR0095045/N*	**9.50**	18.50	4.50	0.51
MOR0098019/N	**9.80**	13.60	1.90	0.13
MOR0098024/N	**9.80**	14.60	2.40	0.16
MOR0099026/N	**9.90**	15.10	2.60	0.24
MOR0100010/N	**10.00**	12.00	1.00	0.23
MOR0100015/N	**10.00**	13.00	1.50	0.16
MOR0100018/N	**10.00**	13.60	1.80	0.32

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0100020/N	**10.00**	14.00	2.00	0.16
MOR0100025/N	**10.00**	15.00	2.50	0.16
MOR0100030/N	**10.00**	16.00	3.00	0.19
MOR0100035/N	**10.00**	17.00	3.50	0.26
MOR0100040/N	**10.00**	18.00	4.00	0.24
MOR0100045/N*	**10.00**	19.00	4.50	0.59
MOR0100050/N	**10.00**	20.00	5.00	0.38
MOR0100060/N*	**10.00**	22.00	6.00	0.77
MOR0101016/N	**10.10**	13.30	1.60	0.53
MOR0103024/N	**10.30**	15.10	2.40	0.16
MOR0105010/N	**10.50**	12.50	1.00	0.23
MOR0105015/N*	**10.50**	13.50	1.50	0.16
MOR0105024/N*	**10.50**	15.30	2.40	0.16
MOR0105025/N	**10.50**	15.50	2.50	0.16
MOR0105027/N*	**10.50**	15.90	2.70	O/R
MOR0105030/N*	**10.50**	16.50	3.00	0.19
MOR0105045/N*	**10.50**	19.50	4.50	0.60
MOR0106018/N*	**10.60**	14.20	1.80	0.32
MOR0106024/N*	**10.60**	15.40	2.40	0.16
MOR0106025/N*	**10.60**	15.60	2.50	0.16
MOR0108024/N	**10.80**	15.60	2.40	0.16
MOR0110010/N	**11.00**	13.00	1.00	0.23
MOR0110015/N	**11.00**	14.00	1.50	0.16
MOR0110020/N	**11.00**	15.00	2.00	0.16
MOR0110024/N*	**11.00**	15.80	2.40	0.16
MOR0110025/N	**11.00**	16.00	2.50	0.16
MOR0110030/N	**11.00**	17.00	3.00	0.19
MOR0110035/N*	**11.00**	18.00	3.50	0.26
MOR0110040/N	**11.00**	19.00	4.00	0.24
MOR0110045/N*	**11.00**	20.00	4.50	0.63
MOR0110050/N*	**11.00**	21.00	5.00	0.38
MOR0110060/N*	**11.00**	23.00	6.00	0.77
MOR0111016/N	**11.10**	14.30	1.60	0.53
MOR0111017/N*	**11.10**	14.50	1.70	0.33
MOR0112018/N*	**11.20**	14.80	1.80	0.32
MOR0113024/N	**11.30**	16.10	2.40	0.16
MOR0115015/N	**11.50**	14.50	1.50	0.40
MOR0115020/N*	**11.50**	15.50	2.00	0.16
MOR0115024/N	**11.50**	16.30	2.40	0.16
MOR0115025/N	**11.50**	16.50	2.50	0.16
MOR0115030/N*	**11.50**	17.50	3.00	0.19
MOR0116013/N	**11.63**	14.33	1.35	0.35
MOR0116024/N*	**11.60**	16.40	2.40	0.16
MOR0118018/N*	**11.80**	15.40	1.80	0.32
MOR0118024/N	**11.80**	16.60	2.40	0.16
MOR0119026/N	**11.90**	17.10	2.60	0.26

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0120010/N	**12.00**	14.00	1.00	0.23
MOR0120015/N	**12.00**	15.00	1.50	0.16
MOR0120020/N	**12.00**	16.00	2.00	0.16
MOR0120025/N	**12.00**	17.00	2.50	0.16
MOR0120030/N	**12.00**	18.00	3.00	0.19
MOR0120035/N	**12.00**	19.00	3.50	0.26
MOR0120040/N	**12.00**	20.00	4.00	0.24
MOR0120045/N	**12.00**	21.00	4.50	0.72
MOR0120050/N	**12.00**	22.00	5.00	0.38
MOR0120060/N*	**12.00**	24.00	6.00	0.77
MOR0121016/N	**12.10**	15.30	1.60	0.58
MOR0121027/N*	**12.10**	17.50	2.70	O/R
MOR0123024/N*	**12.30**	17.10	2.40	0.19
MOR0125010/N*	**12.50**	14.50	1.00	0.23
MOR0125015/N*	**12.50**	15.50	1.50	0.16
MOR0125018/N	**12.50**	16.10	1.80	0.32
MOR0125020/N*	**12.50**	16.50	2.00	0.16
MOR0125025/N*	**12.50**	17.50	2.50	0.16
MOR0125030/N*	**12.50**	18.50	3.00	0.19
MOR0126024/N*	**12.60**	17.40	2.40	0.19
MOR0127026/N*	**12.70**	17.90	2.60	0.35
MOR0130010/N	**13.00**	15.00	1.00	0.23
MOR0130015/N	**13.00**	16.00	1.50	0.16
MOR0130020/N	**13.00**	17.00	2.00	0.19
MOR0130024/N	**13.00**	17.80	2.40	0.19
MOR0130025/N	**13.00**	18.00	2.50	0.19
MOR0130030/N	**13.00**	19.00	3.00	0.21
MOR0130035/N*	**13.00**	20.00	3.50	0.26
MOR0130040/N	**13.00**	21.00	4.00	0.28
MOR0130045/N*	**13.00**	22.00	4.50	0.74
MOR0130050/N*	**13.00**	23.00	5.00	0.38
MOR0130060/N*	**13.00**	25.00	6.00	0.77
MOR0131016/N	**13.10**	16.30	1.60	0.58
MOR0131026/N*	**13.10**	18.30	2.60	0.35
MOR0132018/N*	**13.20**	16.80	1.80	0.32
MOR0133024/N	**13.30**	18.10	2.40	0.21
MOR0135010/N*	**13.50**	15.50	1.00	0.23
MOR0135015/N*	**13.50**	16.50	1.50	0.16
MOR0135020/N	**13.50**	17.50	2.00	0.19
MOR0135024/N*	**13.50**	18.30	2.40	0.21
MOR0135025/N	**13.50**	18.50	2.50	0.19
MOR0135030/N*	**13.50**	19.50	3.00	0.21
MOR0136024/N*	**13.60**	18.40	2.40	0.21
MOR0136025/N*	**13.60**	18.60	2.50	0.19
MOR0136027/N*	**13.60**	19.00	2.70	O/R
MOR0138024/N	**13.80**	18.60	2.40	0.21

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0140010/N	**14.00**	16.00	1.00	0.23
MOR0140015/N	**14.00**	17.00	1.50	0.19
MOR0140018/N*	**14.00**	17.60	1.80	0.37
MOR0140020/N	**14.00**	18.00	2.00	0.19
MOR0140025/N	**14.00**	19.00	2.50	0.19
MOR0140026/N	**14.00**	19.20	2.60	0.37
MOR0140030/N	**14.00**	20.00	3.00	0.23
MOR0140035/N*	**14.00**	21.00	3.50	0.26
MOR0140040/N	**14.00**	22.00	4.00	0.28
MOR0140050/N	**14.00**	24.00	5.00	0.38
MOR0140060/N*	**14.00**	26.00	6.00	0.77
MOR0141016/N	**14.10**	17.30	1.60	0.86
MOR0143024/N*	**14.30**	19.10	2.40	0.21
MOR0145010/N*	**14.50**	16.50	1.00	0.23
MOR0145015/N	**14.50**	17.50	1.50	0.19
MOR0145020/N*	**14.50**	18.50	2.00	0.19
MOR0145024/N*	**14.50**	19.30	2.40	0.21
MOR0145025/N	**14.50**	19.50	2.50	0.19
MOR0145030/N*	**14.50**	20.50	3.00	0.23
MOR0145040/N	**14.50**	22.50	4.00	0.41
MOR0145045/N*	**14.50**	23.50	4.50	0.78
MOR0146024/N*	**14.60**	19.40	2.40	0.21
MOR0148024/N	**14.80**	19.60	2.40	0.21
MOR0150010/N	**15.00**	17.00	1.00	0.23
MOR0150015/N	**15.00**	18.00	1.50	0.19
MOR0150018/N	**15.00**	18.60	1.80	0.37
MOR0150020/N	**15.00**	19.00	2.00	0.19
MOR0150025/N	**15.00**	20.00	2.50	0.19
MOR0150026/N*	**15.00**	20.20	2.60	0.37
MOR0150030/N*	**15.00**	21.00	3.00	0.23
MOR0150035/N	**15.00**	22.00	3.50	0.26
MOR0150040/N	**15.00**	23.00	4.00	0.30
MOR0150045/N*	**15.00**	24.00	4.50	0.79
MOR0150050/N	**15.00**	25.00	5.00	0.38
MOR0150060/N*	**15.00**	27.00	6.00	0.77
MOR0151016/N	**15.10**	18.30	1.60	0.86
MOR0151027/N*	**15.10**	20.50	2.70	O/R
MOR0153024/N	**15.30**	20.10	2.40	0.24
MOR0155010/N*	**15.50**	17.50	1.00	0.23
MOR0155015/N*	**15.50**	18.50	1.50	0.19
MOR0155020/N	**15.50**	19.50	2.00	0.19
MOR0155024/N	**15.50**	20.30	2.40	0.24
MOR0155025/N	**15.50**	20.50	2.50	0.19
MOR0155027/N*	**15.50**	20.90	2.70	O/R
MOR0155030/N*	**15.50**	21.50	3.00	0.23
MOR0155045/N*	**15.50**	24.50	4.50	0.82

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0156024/N*	**15.60**	20.40	2.40	0.24
MOR0158024/N	**15.80**	20.60	2.40	0.24
MOR0158026/N	**15.80**	21.00	2.60	0.37
MOR0160010/N	**16.00**	18.00	1.00	0.23
MOR0160015/N	**16.00**	19.00	1.50	0.23
MOR0160018/N*	**16.00**	19.60	1.80	0.37
MOR0160020/N	**16.00**	20.00	2.00	0.23
MOR0160025/N	**16.00**	21.00	2.50	0.24
MOR0160026/N*	**16.00**	21.20	2.60	0.37
MOR0160030/N	**16.00**	22.00	3.00	0.26
MOR0160035/N	**16.00**	23.00	3.50	0.33
MOR0160040/N	**16.00**	24.00	4.00	0.38
MOR0160045/N*	**16.00**	25.00	4.50	0.86
MOR0160050/N	**16.00**	26.00	5.00	0.44
MOR0160060/N*	**16.00**	28.00	6.00	0.77
MOR0160080/N*	**16.00**	32.00	8.00	O/R
MOR0161016/N	**16.10**	19.30	1.60	0.86
MOR0163024/N*	**16.30**	21.10	2.40	0.24
MOR0165010/N*	**16.50**	18.50	1.00	0.24
MOR0165015/N	**16.50**	19.50	1.50	0.24
MOR0165020/N	**16.50**	20.50	2.00	0.23
MOR0165025/N*	**16.50**	21.50	2.50	0.24
MOR0165030/N*	**16.50**	22.50	3.00	0.26
MOR0166024/N	**16.60**	21.40	2.40	0.24
MOR0170010/N	**17.00**	19.00	1.00	0.24
MOR0170015/N	**17.00**	20.00	1.50	0.24
MOR0170020/N	**17.00**	21.00	2.00	0.23
MOR0170025/N	**17.00**	22.00	2.50	0.24
MOR0170029/N*	**17.12**	22.86	2.87	1.21
MOR0170030/N	**17.00**	23.00	3.00	0.26
MOR0170035/N*	**17.00**	24.00	3.50	#N/A
MOR0170040/N	**17.00**	25.00	4.00	0.38
MOR0170045/N*	**17.00**	26.00	4.50	#N/A
MOR0170050/N*	**17.00**	27.00	5.00	#N/A
MOR0171016/N*	**17.10**	20.30	1.60	#N/A
MOR0173024/N	**17.30**	22.10	2.40	0.24
MOR0174026/N*	**17.40**	22.60	2.60	0.37
MOR0175010/N*	**17.50**	19.50	1.00	0.24
MOR0175015/N	**17.50**	20.50	1.50	0.24
MOR0175020/N*	**17.50**	21.50	2.00	0.23
MOR0175024/N*	**17.50**	22.30	2.40	0.24
MOR0175025/N*	**17.50**	22.50	2.50	0.24
MOR0175030/N*	**17.50**	23.50	3.00	0.26
MOR0176024/N*	**17.60**	22.40	2.40	0.24
MOR0177025/N*	**17.70**	22.70	2.50	0.24
MOR0178024/N	**17.80**	22.60	2.40	0.24

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0178026/N*	**17.80**	23.00	2.60	0.37
MOR0180010/N	**18.00**	20.00	1.00	0.24
MOR0180015/N	**18.00**	21.00	1.50	0.24
MOR0180020/N	**18.00**	22.00	2.00	0.23
MOR0180022/N*	**18.00**	22.40	2.20	0.18
MOR0180025/N	**18.00**	23.00	2.50	0.24
MOR0180026/N	**18.00**	23.20	2.60	0.37
MOR0180030/N	**18.00**	24.00	3.00	0.26
MOR0180035/N	**18.00**	25.00	3.50	0.37
MOR0180040/N	**18.00**	26.00	4.00	0.38
MOR0180045/N	**18.00**	27.00	4.50	0.98
MOR0180050/N	**18.00**	28.00	5.00	0.44
MOR0180060/N*	**18.00**	30.00	6.00	0.77
MOR0181016/N	**18.10**	21.30	1.60	0.97
MOR0182030/N*	**18.20**	24.20	3.00	0.26
MOR0183024/N*	**18.30**	23.10	2.40	0.24
MOR0183036/N*	**18.30**	25.50	3.60	0.56
MOR0184027/N*	**18.40**	23.80	2.70	O/R
MOR0185010/N	**18.50**	20.50	1.00	0.24
MOR0185012/N*	**18.50**	20.90	1.20	0.11
MOR0185015/N*	**18.50**	21.50	1.50	0.24
MOR0185020/N*	**18.50**	22.50	2.00	0.23
MOR0185025/N*	**18.50**	23.50	2.50	0.24
MOR0185030/N	**18.50**	24.50	3.00	0.38
MOR0186024/N	**18.60**	23.40	2.40	0.24
MOR0190010/N	**19.00**	21.00	1.00	0.24
MOR0190015/N	**19.00**	22.00	1.50	0.24
MOR0190020/N	**19.00**	23.00	2.00	0.23
MOR0190025/N	**19.00**	24.00	2.50	0.24
MOR0190026/N	**19.00**	24.20	2.60	0.37
MOR0190030/N	**19.00**	25.00	3.00	0.26
MOR0190035/N	**19.00**	26.00	3.50	0.37
MOR0190040/N	**19.00**	27.00	4.00	0.38
MOR0190045/N*	**19.00**	28.00	4.50	1.01
MOR0190050/N*	**19.00**	29.00	5.00	0.44
MOR0190060/N*	**19.00**	31.00	6.00	0.77
MOR0190070/N*	**19.00**	33.00	7.00	O/R
MOR0191016/N	**19.10**	22.30	1.60	0.97
MOR0192030/N	**19.20**	25.20	3.00	0.26
MOR0193024/N*	**19.30**	24.10	2.40	0.24
MOR0195010/N*	**19.50**	21.50	1.00	0.24
MOR0195015/N*	**19.50**	22.50	1.50	0.24
MOR0195020/N*	**19.50**	23.50	2.00	0.23
MOR0195025/N*	**19.50**	24.50	2.50	0.24
MOR0195030/N	**19.50**	25.50	3.00	0.26
MOR0195060/N*	**19.50**	31.50	6.00	0.77

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Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0196024/N*	**19.60**	24.40	2.40	0.24
MOR0198024/N	**19.80**	24.60	2.40	0.24
MOR0198036/N*	**19.80**	27.00	3.60	0.86
MOR0200010/N*	**20.00**	22.00	1.00	0.24
MOR0200015/N	**20.00**	23.00	1.50	0.24
MOR0200020/N	**20.00**	24.00	2.00	0.23
MOR0200025/N	**20.00**	25.00	2.50	0.26
MOR0200026/N	**20.00**	25.20	2.60	0.43
MOR0200030/N	**20.00**	26.00	3.00	0.33
MOR0200035/N	**20.00**	27.00	3.50	0.37
MOR0200036/N*	**20.00**	27.20	3.60	0.87
MOR0200040/N	**20.00**	28.00	4.00	0.38
MOR0200045/N*	**20.00**	29.00	4.50	1.02
MOR0200050/N	**20.00**	30.00	5.00	0.44
MOR0200060/N*	**20.00**	32.00	6.00	0.77
MOR0201016/N	**20.10**	23.30	1.60	0.97
MOR0202030/N*	**20.20**	26.20	3.00	0.33
MOR0203024/N	**20.30**	25.10	2.40	0.26
MOR0205010/N*	**20.50**	22.50	1.00	0.24
MOR0205015/N*	**20.50**	23.50	1.50	0.24
MOR0205020/N*	**20.50**	24.50	2.00	0.30
MOR0205024/N	**20.50**	25.30	2.40	0.26
MOR0205025/N	**20.50**	25.50	2.50	0.26
MOR0205030/N*	**20.50**	26.50	3.00	0.33
MOR0206026/N*	**20.60**	25.80	2.60	0.43
MOR0208024/N	**20.80**	25.60	2.40	0.26
MOR0210010/N	**21.00**	23.00	1.00	0.24
MOR0210015/N	**21.00**	24.00	1.50	0.30
MOR0210020/N	**21.00**	25.00	2.00	0.30
MOR0210025/N	**21.00**	26.00	2.50	0.30
MOR0210030/N*	**21.00**	27.00	3.00	0.33
MOR0210035/N	**21.00**	28.00	3.50	0.37
MOR0210040/N	**21.00**	29.00	4.00	0.42
MOR0210045/N*	**21.00**	30.00	4.50	1.02
MOR0210050/N	**21.00**	31.00	5.00	0.44
MOR0210060/N*	**21.00**	33.00	6.00	0.77
MOR0211016/N*	**21.10**	24.30	1.60	1.15
MOR0212026/N*	**21.20**	26.40	2.60	0.43
MOR0212035/N*	**21.20**	28.20	3.50	0.37
MOR0213024/N	**21.30**	26.10	2.40	0.26
MOR0213036/N*	**21.30**	28.50	3.60	0.93
MOR0215010/N*	**21.50**	23.50	1.00	0.24
MOR0215015/N*	**21.50**	24.50	1.50	0.30
MOR0215020/N*	**21.50**	25.50	2.00	0.30
MOR0215024/N*	**21.50**	26.30	2.40	0.26
MOR0215025/N*	**21.50**	26.50	2.50	0.30

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0215030/N*	**21.50**	27.50	3.00	0.33
MOR0215045/N*	**21.50**	30.50	4.50	1.06
MOR0216024/N*	**21.60**	26.40	2.40	0.26
MOR0217035/N*	**21.70**	28.70	3.50	0.37
MOR0218024/N	**21.80**	26.60	2.40	0.26
MOR0220010/N*	**22.00**	24.00	1.00	0.47
MOR0220015/N	**22.00**	25.00	1.50	0.30
MOR0220020/N	**22.00**	26.00	2.00	0.30
MOR0220025/N	**22.00**	27.00	2.50	0.30
MOR0220030/N	**22.00**	28.00	3.00	0.33
MOR0220035/N	**22.00**	29.00	3.50	0.37
MOR0220040/N	**22.00**	30.00	4.00	0.42
MOR0220045/N*	**22.00**	31.00	4.50	1.06
MOR0220050/N	**22.00**	32.00	5.00	0.55
MOR0220060/N*	**22.00**	34.00	6.00	0.77
MOR0221016/N*	**22.10**	25.30	1.60	1.15
MOR0221035/N*	**22.10**	29.10	3.50	0.37
MOR0222026/N*	**22.20**	27.40	2.60	0.43
MOR0222030/N	**22.20**	28.20	3.00	0.33
MOR0223024/N	**22.30**	27.10	2.40	0.26
MOR0224016/N*	**22.40**	25.60	1.60	1.15
MOR0224026/N*	**22.40**	27.60	2.60	0.43
MOR0224035/N*	**22.40**	29.40	3.50	0.37
MOR0225010/N*	**22.50**	24.50	1.00	0.47
MOR0225015/N*	**22.50**	25.50	1.50	0.30
MOR0225020/N*	**22.50**	26.50	2.00	0.30
MOR0225025/N*	**22.50**	27.50	2.50	0.30
MOR0225030/N	**22.50**	28.50	3.00	0.33
MOR0225045/N*	**22.50**	31.50	4.50	1.07
MOR0230010/N	**23.00**	25.00	1.00	0.49
MOR0230015/N	**23.00**	26.00	1.50	0.30
MOR0230020/N	**23.00**	27.00	2.00	0.30
MOR0230025/N	**23.00**	28.00	2.50	0.30
MOR0230030/N	**23.00**	29.00	3.00	0.33
MOR0230035/N	**23.00**	30.00	3.50	0.37
MOR0230036/N*	**23.00**	30.20	3.60	0.96
MOR0230040/N	**23.00**	31.00	4.00	0.42
MOR0230045/N	**23.00**	32.00	4.50	1.08
MOR0230050/N	**23.00**	33.00	5.00	0.55
MOR0230060/N*	**23.00**	35.00	6.00	0.77
MOR0233024/N	**23.30**	28.10	2.40	0.26
MOR0235010/N*	**23.50**	25.50	1.00	0.49
MOR0235015/N	**23.50**	26.50	1.50	0.30
MOR0235020/N	**23.50**	27.50	2.00	0.30
MOR0235024/N*	**23.50**	28.30	2.40	0.26
MOR0235025/N*	**23.50**	28.50	2.50	0.30

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0235030/N*	**23.50**	29.50	3.00	0.33
MOR0235040/N*	**23.50**	31.50	4.00	0.68
MOR0235060/N*	**23.50**	35.50	6.00	0.77
MOR0236026/N*	**23.60**	28.80	2.60	0.43
MOR0236035/N*	**23.60**	30.60	3.50	0.37
MOR0237035/N	**23.70**	30.70	3.50	0.37
MOR0238026/N*	**23.80**	29.00	2.60	0.43
MOR0240010/N	**24.00**	26.00	1.00	0.54
MOR0240015/N	**24.00**	27.00	1.50	0.30
MOR0240020/N	**24.00**	28.00	2.00	0.42
MOR0240025/N	**24.00**	29.00	2.50	0.30
MOR0240030/N	**24.00**	30.00	3.00	0.33
MOR0240035/N	**24.00**	31.00	3.50	0.37
MOR0240040/N	**24.00**	32.00	4.00	0.42
MOR0240045/N	**24.00**	33.00	4.50	1.08
MOR0240050/N	**24.00**	34.00	5.00	0.55
MOR0240060/N*	**24.00**	36.00	6.00	0.77
MOR0242030/N	**24.20**	30.20	3.00	0.33
MOR0242057/N*	**24.20**	35.60	5.70	1.84
MOR0243024/N*	**24.30**	29.10	2.40	0.26
MOR0244024/N*	**24.40**	29.20	2.40	0.26
MOR0244031/N	**24.40**	30.60	3.10	0.38
MOR0245010/N*	**24.50**	26.50	1.00	0.54
MOR0245015/N*	**24.50**	27.50	1.50	0.30
MOR0245020/N	**24.50**	28.50	2.00	0.33
MOR0245024/N*	**24.50**	29.30	2.40	0.26
MOR0245025/N*	**24.50**	29.50	2.50	0.30
MOR0245030/N*	**24.50**	30.50	3.00	0.33
MOR0245045/N*	**24.50**	33.50	4.50	1.12
MOR0246024/N	**24.60**	29.40	2.40	0.26
MOR0246030/N*	**24.60**	30.60	3.00	0.33
MOR0246036/N*	**24.60**	31.80	3.60	0.96
MOR0247035/N	**24.70**	31.70	3.50	0.37
MOR0247053/N*	**24.70**	35.30	5.30	O/R
MOR0249035/N*	**24.90**	31.90	3.50	0.37
MOR0250010/N	**25.00**	27.00	1.00	0.55
MOR0250015/N	**25.00**	28.00	1.50	0.30
MOR0250020/N	**25.00**	29.00	2.00	0.33
MOR0250025/N	**25.00**	30.00	2.50	0.30
MOR0250026/N*	**25.00**	30.20	2.60	0.45
MOR0250030/N	**25.00**	31.00	3.00	0.33
MOR0250035/N	**25.00**	32.00	3.50	0.37
MOR0250040/N	**25.00**	33.00	4.00	0.42
MOR0250045/N*	**25.00**	34.00	4.50	1.13
MOR0250050/N	**25.00**	35.00	5.00	0.71
MOR0250060/N*	**25.00**	37.00	6.00	0.77

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0250080/N*	**25.00**	41.00	8.00	O/R
MOR0251016/N*	**25.10**	28.30	1.60	1.15
MOR0252035/N	**25.20**	32.20	3.50	0.37
MOR0252036/N*	**25.20**	32.40	3.60	0.97
MOR0253024/N*	**25.30**	30.10	2.40	0.26
MOR0255015/N*	**25.50**	28.50	1.50	0.30
MOR0255020/N*	**25.50**	29.50	2.00	0.33
MOR0255025/N*	**25.50**	30.50	2.50	0.30
MOR0255030/N*	**25.50**	31.50	3.00	0.38
MOR0257035/N	**25.70**	32.70	3.50	0.37
MOR0258026/N*	**25.80**	31.00	2.60	0.45
MOR0258035/N*	**25.80**	32.80	3.50	0.37
MOR0260015/N	**26.00**	29.00	1.50	0.37
MOR0260020/N	**26.00**	30.00	2.00	0.33
MOR0260025/N	**26.00**	31.00	2.50	0.37
MOR0260030/N	**26.00**	32.00	3.00	0.38
MOR0260035/N	**26.00**	33.00	3.50	0.49
MOR0260040/N	**26.00**	34.00	4.00	0.57
MOR0260045/N*	**26.00**	35.00	4.50	1.22
MOR0260050/N*	**26.00**	36.00	5.00	0.71
MOR0260060/N*	**26.00**	38.00	6.00	0.97
MOR0262030/N*	**26.20**	32.20	3.00	0.38
MOR0262036/N*	**26.20**	33.40	3.60	1.01
MOR0263024/N*	**26.30**	31.10	2.40	0.26
MOR0265015/N*	**26.50**	29.50	1.50	0.37
MOR0265020/N*	**26.50**	30.50	2.00	0.33
MOR0265025/N*	**26.50**	31.50	2.50	0.37
MOR0265026/N*	**26.50**	31.70	2.60	0.45
MOR0265030/N*	**26.50**	32.50	3.00	0.38
MOR0265035/N*	**26.50**	33.50	3.50	0.49
MOR0270015/N	**27.00**	30.00	1.50	0.37
MOR0270020/N	**27.00**	31.00	2.00	0.33
MOR0270025/N	**27.00**	32.00	2.50	0.37
MOR0270030/N	**27.00**	33.00	3.00	0.38
MOR0270035/N	**27.00**	34.00	3.50	0.49
MOR0270040/N	**27.00**	35.00	4.00	0.57
MOR0270045/N	**27.00**	36.00	4.50	1.26
MOR0270050/N*	**27.00**	37.00	5.00	0.71
MOR0270060/N*	**27.00**	39.00	6.00	0.97
MOR0271016/N*	**27.10**	30.30	1.60	1.15
MOR0273024/N*	**27.30**	32.10	2.40	0.45
MOR0273027/N*	**27.30**	32.70	2.70	0.54
MOR0275015/N*	**27.50**	30.50	1.50	0.37
MOR0275024/N*	**27.50**	32.30	2.40	0.26
MOR0275025/N*	**27.50**	32.50	2.50	0.37
MOR0275030/N*	**27.50**	33.50	3.00	0.38

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0275045/N*	**27.50**	36.50	4.50	1.26
MOR0276024/N*	**27.60**	32.40	2.40	0.26
MOR0277035/N	**27.70**	34.70	3.50	0.49
MOR0278036/N	**27.80**	35.00	3.60	1.07
MOR0280010/N	**28.00**	30.00	1.00	0.55
MOR0280015/N*	**28.00**	31.00	1.50	0.37
MOR0280020/N	**28.00**	32.00	2.00	0.37
MOR0280025/N	**28.00**	33.00	2.50	0.37
MOR0280026/N*	**28.00**	33.20	2.60	0.45
MOR0280030/N	**28.00**	34.00	3.00	0.38
MOR0280035/N	**28.00**	35.00	3.50	0.49
MOR0280040/N	**28.00**	36.00	4.00	0.58
MOR0280045/N*	**28.00**	37.00	4.50	1.27
MOR0280050/N*	**28.00**	38.00	5.00	0.71
MOR0280060/N	**28.00**	40.00	6.00	0.97
MOR0285015/N*	**28.50**	31.50	1.50	0.37
MOR0285020/N*	**28.50**	32.50	2.00	0.37
MOR0285025/N*	**28.50**	33.50	2.50	0.37
MOR0285030/N*	**28.50**	34.50	3.00	0.38
MOR0285045/N*	**28.50**	37.50	4.50	1.30
MOR0287035/N	**28.70**	35.70	3.50	0.49
MOR0290015/N	**29.00**	32.00	1.50	0.37
MOR0290016/N*	**29.00**	32.20	1.60	1.34
MOR0290020/N	**29.00**	33.00	2.00	0.37
MOR0290025/N	**29.00**	34.00	2.50	0.37
MOR0290030/N	**29.00**	35.00	3.00	0.38
MOR0290035/N	**29.00**	36.00	3.50	0.49
MOR0290040/N	**29.00**	37.00	4.00	0.58
MOR0290045/N*	**29.00**	38.00	4.50	1.30
MOR0290050/N*	**29.00**	39.00	5.00	0.71
MOR0290060/N*	**29.00**	41.00	6.00	0.97
MOR0291016/N	**29.10**	32.30	1.60	1.34
MOR0291025/N*	**29.10**	34.10	2.50	0.37
MOR0292030/N*	**29.20**	35.20	3.00	0.38
MOR0292035/N*	**29.20**	36.20	3.50	0.49
MOR0293024/N*	**29.30**	34.10	2.40	2.26
MOR0293036/N*	**29.30**	36.50	3.60	1.13
MOR0294031/N	**29.40**	35.60	3.10	0.52
MOR0295015/N*	**29.50**	32.50	1.50	0.37
MOR0295020/N*	**29.50**	33.50	2.00	0.37
MOR0295025/N*	**29.50**	34.50	2.50	0.37
MOR0295030/N	**29.50**	35.50	3.00	0.38
MOR0295045/N*	**29.50**	38.50	4.50	1.35
MOR0296024/N	**29.60**	34.40	2.40	0.26
MOR0297035/N	**29.70**	36.70	3.50	0.49
MOR0300010/N	**30.00**	32.00	1.00	0.55

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0300015/N	**30.00**	33.00	1.50	0.37
MOR0300020/N	**30.00**	34.00	2.00	0.38
MOR0300025/N	**30.00**	35.00	2.50	0.37
MOR0300026/N*	**30.00**	35.20	2.60	0.45
MOR0300030/N	**30.00**	36.00	3.00	0.38
MOR0300035/N	**30.00**	37.00	3.50	0.49
MOR0300040/N	**30.00**	38.00	4.00	0.58
MOR0300045/N*	**30.00**	39.00	4.50	1.35
MOR0300050/N	**30.00**	40.00	5.00	0.71
MOR0300060/N*	**30.00**	42.00	6.00	0.97
MOR0302030/N	**30.20**	36.20	3.00	0.38
MOR0303024/N*	**30.30**	35.10	2.40	0.26
MOR0305015/N*	**30.50**	33.50	1.50	0.37
MOR0305020/N*	**30.50**	34.50	2.00	0.38
MOR0305025/N*	**30.50**	35.50	2.50	0.37
MOR0305030/N	**30.50**	36.50	3.00	0.38
MOR0307035/N	**30.70**	37.70	3.50	0.49
MOR0308036/N*	**30.80**	38.00	3.60	1.13
MOR0310015/N*	**31.00**	34.00	1.50	0.43
MOR0310020/N	**31.00**	35.00	2.00	0.40
MOR0310025/N	**31.00**	36.00	2.50	0.43
MOR0310030/N	**31.00**	37.00	3.00	0.47
MOR0310035/N	**31.00**	38.00	3.50	0.57
MOR0310040/N	**31.00**	39.00	4.00	0.66
MOR0310045/N*	**31.00**	40.00	4.50	1.40
MOR0310050/N	**31.00**	41.00	5.00	0.83
MOR0310060/N*	**31.00**	43.00	6.00	1.58
MOR0310080/N*	**31.00**	47.00	8.00	17.10
MOR0312030/N*	**31.20**	37.20	3.00	0.47
MOR0312035/N	**31.20**	38.20	3.50	0.57
MOR0313024/N*	**31.30**	36.10	2.40	2.24
MOR0315015/N*	**31.50**	34.50	1.50	0.43
MOR0315020/N*	**31.50**	35.50	2.00	0.40
MOR0315025/N*	**31.50**	36.50	2.50	0.43
MOR0315026/N*	**31.50**	36.70	2.60	0.55
MOR0315030/N*	**31.50**	37.50	3.00	0.47
MOR0315035/N*	**31.50**	38.50	3.50	0.57
MOR0315045/N	**31.50**	40.50	4.50	1.47
MOR0316024/N*	**31.60**	36.40	2.40	0.26
MOR0317035/N	**31.70**	38.70	3.50	0.57
MOR0320010/N	**32.00**	34.00	1.00	0.63
MOR0320015/N	**32.00**	35.00	1.50	0.43
MOR0320020/N	**32.00**	36.00	2.00	0.42
MOR0320025/N	**32.00**	37.00	2.50	0.43
MOR0320030/N	**32.00**	38.00	3.00	0.47
MOR0320035/N	**32.00**	39.00	3.50	0.57

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0320040/N	**32.00**	40.00	4.00	0.63
MOR0320045/N	**32.00**	41.00	4.50	1.50
MOR0320050/N*	**32.00**	42.00	5.00	0.83
MOR0320060/N*	**32.00**	44.00	6.00	1.58
MOR0320100/N*	**32.00**	52.00	10.00	O/R
MOR0321016/N*	**32.10**	35.30	1.60	1.34
MOR0322020/N*	**32.20**	36.20	2.00	0.42
MOR0322030/N	**32.20**	38.20	3.00	0.47
MOR0325015/N*	**32.50**	35.50	1.50	0.43
MOR0325020/N*	**32.50**	36.50	2.00	0.42
MOR0325025/N*	**32.50**	37.50	2.50	0.43
MOR0325026/N*	**32.50**	37.70	2.60	0.55
MOR0325030/N*	**32.50**	38.50	3.00	0.47
MOR0325035/N*	**32.50**	39.50	3.50	0.57
MOR0325036/N	**32.50**	39.70	3.60	1.16
MOR0330015/N	**33.00**	36.00	1.50	0.43
MOR0330020/N	**33.00**	37.00	2.00	0.42
MOR0330025/N	**33.00**	38.00	2.50	0.43
MOR0330030/N	**33.00**	39.00	3.00	0.47
MOR0330035/N	**33.00**	40.00	3.50	0.57
MOR0330040/N	**33.00**	41.00	4.00	0.63
MOR0330045/N*	**33.00**	42.00	4.50	1.56
MOR0330050/N	**33.00**	43.00	5.00	0.83
MOR0330060/N*	**33.00**	45.00	6.00	1.58
MOR0330070/N*	**33.00**	47.00	7.00	O/R
MOR0333024/N*	**33.30**	38.10	2.40	0.26
MOR0335015/N*	**33.50**	36.50	1.50	0.43
MOR0335020/N*	**33.50**	37.50	2.00	0.42
MOR0335025/N*	**33.50**	38.50	2.50	0.43
MOR0335026/N*	**33.50**	38.70	2.60	0.55
MOR0335030/N*	**33.50**	39.50	3.00	0.47
MOR0335035/N*	**33.50**	40.50	3.50	0.57
MOR0337035/N	**33.70**	40.70	3.50	0.57
MOR0340015/N	**34.00**	37.00	1.50	0.43
MOR0340020/N	**34.00**	38.00	2.00	0.43
MOR0340025/N	**34.00**	39.00	2.50	0.44
MOR0340030/N	**34.00**	40.00	3.00	0.47
MOR0340035/N	**34.00**	41.00	3.50	0.57
MOR0340040/N	**34.00**	42.00	4.00	0.63
MOR0340045/N*	**34.00**	43.00	4.50	1.61
MOR0340050/N*	**34.00**	44.00	5.00	0.83
MOR0340060/N*	**34.00**	46.00	6.00	1.58
MOR0341036/N*	**34.10**	41.30	3.60	1.27
MOR0342030/N	**34.20**	40.20	3.00	0.47
MOR0344031/N	**34.40**	40.60	3.10	0.67
MOR0345015/N*	**34.50**	37.50	1.50	0.43

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0345020/N*	**34.50**	38.50	2.00	0.43
MOR0345025/N*	**34.50**	39.50	2.50	0.44
MOR0345026/N*	**34.50**	39.70	2.60	0.55
MOR0345030/N*	**34.50**	40.50	3.00	0.47
MOR0345035/N*	**34.50**	41.50	3.50	0.57
MOR0345045/N*	**34.50**	43.50	4.50	1.70
MOR0346024/N*	**34.60**	39.40	2.40	0.26
MOR0347035/N	**34.70**	41.70	3.50	0.57
MOR0350010/N*	**35.00**	37.00	1.00	1.02
MOR0350015/N	**35.00**	38.00	1.50	0.43
MOR0350020/N	**35.00**	39.00	2.00	0.43
MOR0350025/N	**35.00**	40.00	2.50	0.44
MOR0350030/N	**35.00**	41.00	3.00	0.47
MOR0350035/N	**35.00**	42.00	3.50	0.57
MOR0350040/N	**35.00**	43.00	4.00	0.63
MOR0350045/N	**35.00**	44.00	4.50	1.76
MOR0350050/N	**35.00**	45.00	5.00	0.83
MOR0350060/N*	**35.00**	47.00	6.00	1.58
MOR0350080/N*	**35.00**	51.00	8.00	O/R
MOR0351016/N*	**35.10**	38.30	1.60	1.34
MOR0352030/N*	**35.20**	41.20	3.00	0.47
MOR0352035/N*	**35.20**	42.20	3.50	0.57
MOR0355015/N*	**35.50**	38.50	1.50	0.43
MOR0355020/N	**35.50**	39.50	2.00	0.43
MOR0355025/N*	**35.50**	40.50	2.50	0.44
MOR0355026/N*	**35.50**	40.70	2.60	0.55
MOR0355030/N*	**35.50**	41.50	3.00	0.47
MOR0355035/N*	**35.50**	42.50	3.50	0.57
MOR0355045/N*	**35.50**	44.50	4.50	1.81
MOR0356036/N*	**35.60**	42.80	3.60	1.30
MOR0357035/N*	**35.70**	42.70	3.50	0.57
MOR0360015/N	**36.00**	39.00	1.50	0.49
MOR0360020/N	**36.00**	40.00	2.00	0.43
MOR0360025/N	**36.00**	41.00	2.50	0.49
MOR0360030/N	**36.00**	42.00	3.00	0.53
MOR0360035/N	**36.00**	43.00	3.50	0.57
MOR0360040/N	**36.00**	44.00	4.00	0.71
MOR0360045/N	**36.00**	45.00	4.50	1.81
MOR0360050/N*	**36.00**	46.00	5.00	0.86
MOR0360060/N*	**36.00**	48.00	6.00	1.58
MOR0362017/N*	**36.20**	39.60	1.70	5.85
MOR0362030/N*	**36.20**	42.20	3.00	0.53
MOR0365015/N*	**36.50**	39.50	1.50	0.49
MOR0365020/N*	**36.50**	40.50	2.00	0.43
MOR0365025/N*	**36.50**	41.50	2.50	0.49
MOR0365026/N	**36.50**	41.70	2.60	0.55

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Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0365030/N	**36.50**	42.50	3.00	0.53
MOR0365035/N*	**36.50**	43.50	3.50	0.57
MOR0370015/N	**37.00**	40.00	1.50	0.49
MOR0370020/N	**37.00**	41.00	2.00	0.43
MOR0370025/N	**37.00**	42.00	2.50	0.49
MOR0370030/N	**37.00**	43.00	3.00	0.53
MOR0370035/N	**37.00**	44.00	3.50	0.57
MOR0370040/N	**37.00**	45.00	4.00	0.71
MOR0370045/N*	**37.00**	46.00	4.50	1.85
MOR0370050/N*	**37.00**	47.00	5.00	0.86
MOR0370060/N*	**37.00**	49.00	6.00	1.58
MOR0370080/N*	**37.00**	53.00	8.00	O/R
MOR0371016/N*	**37.10**	40.30	1.60	1.34
MOR0372030/N*	**37.20**	43.20	3.00	0.53
MOR0373036/N*	**37.30**	44.50	3.60	1.40
MOR0375015/N*	**37.50**	40.50	1.50	0.49
MOR0375020/N	**37.50**	41.50	2.00	0.43
MOR0375025/N*	**37.50**	42.50	2.50	0.49
MOR0375026/N*	**37.50**	42.70	2.60	0.60
MOR0375030/N*	**37.50**	43.50	3.00	0.53
MOR0375035/N*	**37.50**	44.50	3.50	0.57
MOR0375045/N*	**37.50**	46.50	4.50	1.88
MOR0376024/N*	**37.60**	42.40	2.40	0.28
MOR0377035/N	**37.70**	44.70	3.50	0.57
MOR0380010/N*	**38.00**	40.00	1.00	0.63
MOR0380015/N	**38.00**	41.00	1.50	0.49
MOR0380020/N	**38.00**	42.00	2.00	0.47
MOR0380025/N	**38.00**	43.00	2.50	0.49
MOR0380030/N	**38.00**	44.00	3.00	0.53
MOR0380035/N	**38.00**	45.00	3.50	0.68
MOR0380040/N	**38.00**	46.00	4.00	0.71
MOR0380045/N	**38.00**	47.00	4.50	1.93
MOR0380050/N	**38.00**	48.00	5.00	0.86
MOR0380060/N*	**38.00**	50.00	6.00	2.31
MOR0385015/N*	**38.50**	41.50	1.50	0.49
MOR0385020/N*	**38.50**	42.50	2.00	0.47
MOR0385025/N*	**38.50**	43.50	2.50	0.49
MOR0385030/N*	**38.50**	44.50	3.00	0.60
MOR0387026/N*	**38.70**	43.90	2.60	0.60
MOR0387035/N*	**38.70**	45.70	3.50	0.68
MOR0390010/N	**39.00**	41.00	1.00	0.63
MOR0390015/N	**39.00**	42.00	1.50	0.49
MOR0390020/N	**39.00**	43.00	2.00	0.47
MOR0390025/N	**39.00**	44.00	2.50	0.49
MOR0390030/N	**39.00**	45.00	3.00	0.60
MOR0390035/N	**39.00**	46.00	3.50	0.71

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0390040/N	**39.00**	47.00	4.00	0.71
MOR0390045/N*	**39.00**	48.00	4.50	1.94
MOR0390050/N	**39.00**	49.00	5.00	0.86
MOR0390060/N*	**39.00**	51.00	6.00	2.36
MOR0392030/N	**39.20**	45.20	3.00	0.60
MOR0393057/N*	**39.30**	50.70	5.70	1.84
MOR0394017/N*	**39.40**	42.80	1.70	5.85
MOR0394031/N	**39.40**	45.60	3.10	1.11
MOR0395015/N	**39.50**	42.50	1.50	0.49
MOR0395020/N*	**39.50**	43.50	2.00	0.47
MOR0395025/N*	**39.50**	44.50	2.50	0.49
MOR0395030/N	**39.50**	45.50	3.00	0.60
MOR0395060/N*	**39.50**	51.50	6.00	2.36
MOR0396024/N	**39.60**	44.40	2.40	0.28
MOR0396035/N*	**39.60**	46.60	3.50	0.71
MOR0397035/N	**39.70**	46.70	3.50	0.71
MOR0400010/N*	**40.00**	42.00	1.00	0.63
MOR0400015/N	**40.00**	43.00	1.50	0.49
MOR0400020/N	**40.00**	44.00	2.00	0.47
MOR0400025/N	**40.00**	45.00	2.50	0.49
MOR0400030/N	**40.00**	46.00	3.00	0.60
MOR0400035/N	**40.00**	47.00	3.50	0.71
MOR0400040/N	**40.00**	48.00	4.00	0.71
MOR0400045/N	**40.00**	49.00	4.50	2.02
MOR0400050/N	**40.00**	50.00	5.00	0.86
MOR0400053/N	**40.00**	50.60	5.30	1.78
MOR0400060/N*	**40.00**	52.00	6.00	2.36
MOR0400070/N*	**40.00**	54.00	7.00	O/R
MOR0400100/N*	**40.00**	60.00	10.00	O/R
MOR0405045/N*	**40.50**	49.50	4.50	2.05
MOR0407035/N*	**40.70**	47.70	3.50	0.71
MOR0410015/N*	**41.00**	44.00	1.50	0.55
MOR0410020/N	**41.00**	45.00	2.00	0.47
MOR0410025/N	**41.00**	46.00	2.50	0.55
MOR0410030/N	**41.00**	47.00	3.00	0.60
MOR0410035/N	**41.00**	48.00	3.50	0.71
MOR0410040/N	**41.00**	49.00	4.00	0.71
MOR0410045/N*	**41.00**	50.00	4.50	2.07
MOR0410050/N	**41.00**	51.00	5.00	0.92
MOR0410060/N*	**41.00**	53.00	6.00	2.41
MOR0412035/N*	**41.20**	48.20	3.50	0.71
MOR0412052/N*	**41.20**	51.60	5.20	O/R
MOR0413024/N*	**41.30**	46.10	2.40	0.28
MOR0413057/N*	**41.30**	52.70	5.70	1.84
MOR0414053/N*	**41.40**	52.00	5.30	O/R
MOR0415030/N*	**41.50**	47.50	3.00	0.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0415060/N*	**41.50**	53.50	6.00	2.43
MOR0416024/N*	**41.60**	46.40	2.40	0.28
MOR0417035/N*	**41.70**	48.70	3.50	0.71
MOR0420015/N	**42.00**	45.00	1.50	0.55
MOR0420020/N	**42.00**	46.00	2.00	0.47
MOR0420025/N	**42.00**	47.00	2.50	0.55
MOR0420030/N	**42.00**	48.00	3.00	0.60
MOR0420035/N	**42.00**	49.00	3.50	0.71
MOR0420040/N	**42.00**	50.00	4.00	0.79
MOR0420045/N*	**42.00**	51.00	4.50	2.07
MOR0420050/N	**42.00**	52.00	5.00	0.92
MOR0420060/N*	**42.00**	54.00	6.00	2.47
MOR0422030/N	**42.20**	48.20	3.00	0.60
MOR0425030/N*	**42.50**	48.50	3.00	0.60
MOR0425035/N*	**42.50**	49.50	3.50	0.71
MOR0425053/N*	**42.50**	53.10	5.30	0.71
MOR0428035/N*	**42.80**	49.80	3.50	0.71
MOR0430015/N	**43.00**	46.00	1.50	0.55
MOR0430020/N*	**43.00**	47.00	2.00	0.55
MOR0430025/N	**43.00**	48.00	2.50	0.55
MOR0430030/N	**43.00**	49.00	3.00	0.60
MOR0430035/N	**43.00**	50.00	3.50	0.81
MOR0430040/N	**43.00**	51.00	4.00	0.79
MOR0430045/N*	**43.00**	52.00	4.50	2.09
MOR0430050/N*	**43.00**	53.00	5.00	0.92
MOR0430060/N*	**43.00**	55.00	6.00	2.52
MOR0434036/N*	**43.40**	50.60	3.60	1.55
MOR0437035/N	**43.70**	50.70	3.50	0.81
MOR0437053/N*	**43.70**	54.30	5.30	O/R
MOR0440015/N	**44.00**	47.00	1.50	0.55
MOR0440020/N*	**44.00**	48.00	2.00	0.55
MOR0440025/N	**44.00**	49.00	2.50	0.55
MOR0440030/N	**44.00**	50.00	3.00	0.60
MOR0440035/N	**44.00**	51.00	3.50	0.81
MOR0440040/N	**44.00**	52.00	4.00	0.79
MOR0440045/N	**44.00**	53.00	4.50	2.15
MOR0440050/N	**44.00**	54.00	5.00	0.92
MOR0440060/N*	**44.00**	56.00	6.00	2.57
MOR0442030/N	**44.20**	50.20	3.00	0.60
MOR0443057/N*	**44.30**	55.70	5.70	1.84
MOR0444031/N	**44.40**	50.60	3.10	0.97
MOR0444035/N*	**44.40**	51.40	3.50	0.81
MOR0445030/N*	**44.50**	50.50	3.00	0.60
MOR0445060/N*	**44.50**	56.50	6.00	2.57
MOR0446024/N*	**44.60**	49.40	2.40	2.31
MOR0447035/N	**44.70**	51.70	3.50	0.81

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0450010/N*	**45.00**	47.00	1.00	0.63
MOR0450015/N	**45.00**	48.00	1.50	0.55
MOR0450020/N	**45.00**	49.00	2.00	0.55
MOR0450025/N	**45.00**	50.00	2.50	0.55
MOR0450030/N	**45.00**	51.00	3.00	0.60
MOR0450035/N	**45.00**	52.00	3.50	0.81
MOR0450040/N	**45.00**	53.00	4.00	0.79
MOR0450045/N*	**45.00**	54.00	4.50	1.45
MOR0450050/N	**45.00**	55.00	5.00	0.92
MOR0450060/N	**45.00**	57.00	6.00	2.57
MOR0453057/N*	**45.30**	56.70	5.70	1.24
MOR0457035/N*	**45.70**	52.70	3.50	0.81
MOR0460015/N*	**46.00**	49.00	1.50	1.36
MOR0460020/N	**46.00**	50.00	2.00	0.63
MOR0460025/N*	**46.00**	51.00	2.50	0.79
MOR0460030/N	**46.00**	52.00	3.00	0.68
MOR0460035/N	**46.00**	53.00	3.50	0.81
MOR0460040/N	**46.00**	54.00	4.00	0.86
MOR0460045/N*	**46.00**	55.00	4.50	1.53
MOR0460050/N*	**46.00**	56.00	5.00	1.00
MOR0460060/N*	**46.00**	58.00	6.00	3.36
MOR0462030/N*	**46.20**	52.20	3.00	0.68
MOR0462035/N*	**46.20**	53.20	3.50	0.81
MOR0462053/N*	**46.20**	56.80	5.30	0.99
MOR0470015/N	**47.00**	50.00	1.50	0.63
MOR0470020/N	**47.00**	51.00	2.00	0.63
MOR0470025/N	**47.00**	52.00	2.50	0.63
MOR0470030/N	**47.00**	53.00	3.00	0.68
MOR0470035/N	**47.00**	54.00	3.50	0.81
MOR0470040/N	**47.00**	55.00	4.00	0.86
MOR0470045/N*	**47.00**	56.00	4.50	2.24
MOR0470050/N	**47.00**	57.00	5.00	1.07
MOR0470060/N*	**47.00**	59.00	6.00	2.68
MOR0473057/N	**47.30**	58.70	5.70	1.84
MOR0475035/N*	**47.50**	54.50	3.50	0.81
MOR0475053/N*	**47.50**	58.10	5.30	O/R
MOR0475060/N*	**47.50**	59.50	6.00	2.72
MOR0476024/N*	**47.60**	52.40	2.40	0.40
MOR0476035/N*	**47.60**	54.60	3.50	0.81
MOR0477035/N	**47.70**	54.70	3.50	0.81
MOR0480010/N	**48.00**	50.00	1.00	0.74
MOR0480015/N*	**48.00**	51.00	1.50	0.64
MOR0480020/N	**48.00**	52.00	2.00	0.63
MOR0480025/N	**48.00**	53.00	2.50	0.63
MOR0480030/N	**48.00**	54.00	3.00	0.68
MOR0480035/N	**48.00**	55.00	3.50	0.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0480040/N	**48.00**	56.00	4.00	0.86
MOR0480045/N	**48.00**	57.00	4.50	2.31
MOR0480050/N	**48.00**	58.00	5.00	1.07
MOR0480060/N	**48.00**	60.00	6.00	2.75
MOR0480080/N*	**48.00**	64.00	8.00	3.10
MOR0487035/N*	**48.70**	55.70	3.50	0.81
MOR0487053/N*	**48.70**	59.30	5.30	O/R
MOR0490015/N	**49.00**	52.00	1.50	0.64
MOR0490020/N	**49.00**	53.00	2.00	0.63
MOR0490025/N	**49.00**	54.00	2.50	0.64
MOR0490030/N	**49.00**	55.00	3.00	0.68
MOR0490035/N	**49.00**	56.00	3.50	0.81
MOR0490040/N	**49.00**	57.00	4.00	0.86
MOR0490045/N*	**49.00**	58.00	4.50	2.34
MOR0490050/N	**49.00**	59.00	5.00	1.07
MOR0490060/N*	**49.00**	61.00	6.00	2.78
MOR0492035/N*	**49.20**	56.20	3.50	0.81
MOR0493057/N	**49.30**	60.70	5.70	1.84
MOR0494031/N	**49.40**	55.60	3.10	1.01
MOR0495030/N*	**49.50**	55.50	3.00	0.68
MOR0496024/N*	**49.60**	54.40	2.40	0.43
MOR0496057/N	**49.60**	61.00	5.70	1.84
MOR0497035/N*	**49.70**	56.70	3.50	0.81
MOR0500015/N	**50.00**	53.00	1.50	0.64
MOR0500020/N	**50.00**	54.00	2.00	0.63
MOR0500025/N	**50.00**	55.00	2.50	0.64
MOR0500030/N	**50.00**	56.00	3.00	0.68
MOR0500035/N	**50.00**	57.00	3.50	0.81
MOR0500040/N	**50.00**	58.00	4.00	0.86
MOR0500045/N*	**50.00**	59.00	4.50	2.38
MOR0500050/N	**50.00**	60.00	5.00	1.07
MOR0500053/N*	**50.00**	60.60	5.30	O/R
MOR0500060/N*	**50.00**	62.00	6.00	2.90
MOR0500080/N*	**50.00**	66.00	8.00	3.85
MOR0505030/N	**50.50**	56.50	3.00	2.33
MOR0508035/N*	**50.80**	57.80	3.50	0.81
MOR0510015/N	**51.00**	54.00	1.50	0.64
MOR0510020/N	**51.00**	55.00	2.00	0.63
MOR0510025/N	**51.00**	56.00	2.50	0.68
MOR0510030/N	**51.00**	57.00	3.00	0.68
MOR0510035/N	**51.00**	58.00	3.50	0.84
MOR0510040/N*	**51.00**	59.00	4.00	0.92
MOR0510045/N	**51.00**	60.00	4.50	2.41
MOR0510050/N*	**51.00**	61.00	5.00	1.07
MOR0510060/N*	**51.00**	63.00	6.00	2.95
MOR0513057/N*	**51.30**	62.70	5.70	1.84

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0515035/N*	**51.50**	58.50	3.50	0.84
MOR0515053/N*	**51.50**	62.10	5.30	1.60
MOR0516024/N*	**51.60**	56.40	2.40	0.43
MOR0516057/N*	**51.60**	63.00	5.70	1.84
MOR0520015/N*	**52.00**	55.00	1.50	0.64
MOR0520020/N	**52.00**	56.00	2.00	0.68
MOR0520025/N	**52.00**	57.00	2.50	0.68
MOR0520030/N	**52.00**	58.00	3.00	0.72
MOR0520035/N	**52.00**	59.00	3.50	0.84
MOR0520040/N	**52.00**	60.00	4.00	0.92
MOR0520050/N	**52.00**	62.00	5.00	1.07
MOR0520060/N*	**52.00**	64.00	6.00	3.00
MOR0523057/N	**52.30**	63.70	5.70	1.84
MOR0526057/N	**52.60**	64.00	5.70	1.84
MOR0530015/N	**53.00**	56.00	1.50	0.64
MOR0530020/N	**53.00**	57.00	2.00	1.01
MOR0530025/N	**53.00**	58.00	2.50	0.68
MOR0530030/N	**53.00**	59.00	3.00	0.78
MOR0530035/N	**53.00**	60.00	3.50	0.84
MOR0530040/N	**53.00**	61.00	4.00	0.92
MOR0530045/N*	**53.00**	62.00	4.50	2.46
MOR0530050/N	**53.00**	63.00	5.00	1.08
MOR0530053/N	**53.00**	63.60	5.30	1.54
MOR0530060/N*	**53.00**	65.00	6.00	3.05
MOR0537035/N*	**53.70**	60.70	3.50	0.84
MOR0539035/N*	**53.90**	60.90	3.50	0.84
MOR0540015/N*	**54.00**	57.00	1.50	0.68
MOR0540020/N	**54.00**	58.00	2.00	1.01
MOR0540025/N	**54.00**	59.00	2.50	0.68
MOR0540030/N	**54.00**	60.00	3.00	0.78
MOR0540035/N	**54.00**	61.00	3.50	0.84
MOR0540040/N	**54.00**	62.00	4.00	0.92
MOR0540050/N*	**54.00**	64.00	5.00	1.08
MOR0540060/N*	**54.00**	66.00	6.00	3.10
MOR0540080/N*	**54.00**	70.00	8.00	O/R
MOR0542057/N	**54.20**	65.60	5.70	1.84
MOR0543057/N*	**54.30**	65.70	5.70	1.84
MOR0544031/N	**54.40**	60.60	3.10	1.06
MOR0544053/N	**54.40**	65.00	5.30	1.41
MOR0545030/N	**54.50**	60.50	3.00	0.78
MOR0545035/N	**54.50**	61.50	3.50	0.84
MOR0545053/N*	**54.50**	65.10	5.30	1.70
MOR0546024/N*	**54.60**	59.40	2.40	0.44
MOR0546057/N	**54.60**	66.00	5.70	1.84
MOR0550010/N*	**55.00**	57.00	1.00	0.74
MOR0550015/N*	**55.00**	58.00	1.50	0.68

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O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0550020/N	**55.00**	59.00	2.00	1.01
MOR0550025/N	**55.00**	60.00	2.50	0.68
MOR0550030/N	**55.00**	61.00	3.00	0.78
MOR0550035/N	**55.00**	62.00	3.50	0.84
MOR0550040/N	**55.00**	63.00	4.00	0.92
MOR0550050/N	**55.00**	65.00	5.00	1.08
MOR0550060/N	**55.00**	67.00	6.00	3.21
MOR0550070/N*	**55.00**	69.00	7.00	O/R
MOR0553057/N	**55.30**	66.70	5.70	1.84
MOR0555035/N*	**55.50**	62.50	3.50	0.84
MOR0556057/N*	**55.60**	67.00	5.70	1.84
MOR0560015/N	**56.00**	59.00	1.50	0.72
MOR0560020/N	**56.00**	60.00	2.00	0.68
MOR0560025/N	**56.00**	61.00	2.50	0.68
MOR0560030/N	**56.00**	62.00	3.00	0.78
MOR0560035/N	**56.00**	63.00	3.50	0.84
MOR0560040/N	**56.00**	64.00	4.00	1.00
MOR0560045/N*	**56.00**	65.00	4.50	2.66
MOR0560050/N	**56.00**	66.00	5.00	1.08
MOR0560053/N*	**56.00**	66.60	5.30	O/R
MOR0560060/N	**56.00**	68.00	6.00	3.33
MOR0570015/N	**57.00**	60.00	1.50	0.72
MOR0570020/N	**57.00**	61.00	2.00	0.72
MOR0570025/N	**57.00**	62.00	2.50	0.68
MOR0570030/N	**57.00**	63.00	3.00	1.40
MOR0570035/N	**57.00**	64.00	3.50	0.95
MOR0570040/N	**57.00**	65.00	4.00	1.00
MOR0570045/N*	**57.00**	66.00	4.50	2.68
MOR0570050/N*	**57.00**	67.00	5.00	1.08
MOR0570060/N*	**57.00**	69.00	6.00	3.43
MOR0571035/N*	**57.10**	64.10	3.50	0.95
MOR0573057/N	**57.30**	68.70	5.70	1.84
MOR0576024/N*	**57.60**	62.40	2.40	0.44
MOR0576057/N	**57.60**	69.00	5.70	1.84
MOR0580010/N*	**58.00**	60.00	1.00	0.74
MOR0580015/N	**58.00**	61.00	1.50	0.73
MOR0580020/N	**58.00**	62.00	2.00	0.72
MOR0580025/N	**58.00**	63.00	2.50	0.73
MOR0580030/N	**58.00**	64.00	3.00	0.78
MOR0580035/N	**58.00**	65.00	3.50	0.95
MOR0580040/N	**58.00**	66.00	4.00	1.00
MOR0580050/N	**58.00**	68.00	5.00	1.08
MOR0580053/N*	**58.00**	68.60	5.30	O/R
MOR0580060/N	**58.00**	70.00	6.00	3.54
MOR0580070/N*	**58.00**	72.00	7.00	O/R
MOR0587035/N*	**58.70**	65.70	3.50	0.95

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0590015/N	**59.00**	62.00	1.50	0.73
MOR0590020/N	**59.00**	63.00	2.00	0.73
MOR0590025/N	**59.00**	64.00	2.50	1.40
MOR0590030/N	**59.00**	65.00	3.00	0.78
MOR0590035/N	**59.00**	66.00	3.50	0.95
MOR0590040/N	**59.00**	67.00	4.00	1.00
MOR0590050/N	**59.00**	69.00	5.00	1.34
MOR0590070/N*	**59.00**	73.00	7.00	O/R
MOR0592057/N	**59.20**	70.60	5.70	1.84
MOR0593024/N*	**59.30**	64.10	2.40	0.45
MOR0593057/N	**59.30**	70.70	5.70	1.84
MOR0594031/N	**59.40**	65.60	3.10	1.21
MOR0595030/N	**59.50**	65.50	3.00	0.78
MOR0595060/N*	**59.50**	71.50	6.00	3.63
MOR0596024/N	**59.60**	64.40	2.40	0.49
MOR0596057/N	**59.60**	71.00	5.70	1.84
MOR0600010/N*	**60.00**	62.00	1.00	0.74
MOR0600015/N	**60.00**	63.00	1.50	0.73
MOR0600020/N	**60.00**	64.00	2.00	0.92
MOR0600025/N	**60.00**	65.00	2.50	0.73
MOR0600030/N	**60.00**	66.00	3.00	0.78
MOR0600035/N	**60.00**	67.00	3.50	0.95
MOR0600040/N	**60.00**	68.00	4.00	1.00
MOR0600045/N*	**60.00**	69.00	4.50	2.82
MOR0600050/N	**60.00**	70.00	5.00	1.34
MOR0600053/N*	**60.00**	70.60	5.30	O/R
MOR0600060/N	**60.00**	72.00	6.00	3.75
MOR0603035/N*	**60.30**	67.30	3.50	0.95
MOR0610015/N*	**61.00**	64.00	1.50	0.73
MOR0610020/N	**61.00**	65.00	2.00	0.92
MOR0610025/N	**61.00**	66.00	2.50	0.92
MOR0610030/N	**61.00**	67.00	3.00	0.93
MOR0610035/N	**61.00**	68.00	3.50	1.08
MOR0610040/N*	**61.00**	69.00	4.00	1.08
MOR0610045/N*	**61.00**	70.00	4.50	2.90
MOR0610050/N	**61.00**	71.00	5.00	1.55
MOR0610060/N*	**61.00**	73.00	6.00	3.91
MOR0613057/N	**61.30**	72.70	5.70	1.84
MOR0615035/N*	**61.50**	68.50	3.50	1.08
MOR0615053/N*	**61.50**	72.10	5.30	O/R
MOR0616024/N	**61.60**	66.40	2.40	0.53
MOR0616057/N*	**61.60**	73.00	5.70	1.84
MOR0619035/N*	**61.90**	68.90	3.50	1.08
MOR0620015/N	**62.00**	65.00	1.50	0.73
MOR0620020/N	**62.00**	66.00	2.00	0.92
MOR0620025/N	**62.00**	67.00	2.50	0.92

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Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0620030/N	**62.00**	68.00	3.00	0.93
MOR0620035/N	**62.00**	69.00	3.50	1.08
MOR0620040/N	**62.00**	70.00	4.00	1.08
MOR0620050/N	**62.00**	72.00	5.00	1.55
MOR0620060/N*	**62.00**	74.00	6.00	4.02
MOR0623057/N	**62.30**	73.70	5.70	1.84
MOR0626057/N	**62.60**	74.00	5.70	1.84
MOR0630015/N*	**63.00**	66.00	1.50	0.73
MOR0630020/N	**63.00**	67.00	2.00	0.92
MOR0630025/N	**63.00**	68.00	2.50	0.92
MOR0630030/N	**63.00**	69.00	3.00	0.93
MOR0630035/N	**63.00**	70.00	3.50	1.08
MOR0630040/N	**63.00**	71.00	4.00	1.08
MOR0630045/N*	**63.00**	72.00	4.50	2.95
MOR0630050/N*	**63.00**	73.00	5.00	1.55
MOR0630053/N	**63.00**	73.60	5.30	2.08
MOR0630060/N	**63.00**	75.00	6.00	4.23
MOR0635035/N*	**63.50**	70.50	3.50	1.08
MOR0640015/N	**64.00**	67.00	1.50	0.73
MOR0640020/N	**64.00**	68.00	2.00	0.98
MOR0640025/N	**64.00**	69.00	2.50	0.92
MOR0640030/N	**64.00**	70.00	3.00	0.93
MOR0640035/N	**64.00**	71.00	3.50	1.08
MOR0640040/N	**64.00**	72.00	4.00	1.08
MOR0640045/N*	**64.00**	73.00	4.50	2.95
MOR0640050/N*	**64.00**	74.00	5.00	1.55
MOR0640060/N*	**64.00**	76.00	6.00	4.51
MOR0643057/N	**64.30**	75.70	5.70	1.84
MOR0644031/N	**64.40**	70.60	3.10	1.26
MOR0645030/N	**64.50**	70.50	3.00	0.93
MOR0646024/N*	**64.60**	69.40	2.40	0.53
MOR0646057/N	**64.60**	76.00	5.70	1.84
MOR0650015/N*	**65.00**	68.00	1.50	0.73
MOR0650020/N	**65.00**	69.00	2.00	0.98
MOR0650025/N	**65.00**	70.00	2.50	0.92
MOR0650030/N	**65.00**	71.00	3.00	0.93
MOR0650035/N	**65.00**	72.00	3.50	1.08
MOR0650040/N	**65.00**	73.00	4.00	1.08
MOR0650045/N*	**65.00**	74.00	4.50	3.00
MOR0650050/N	**65.00**	75.00	5.00	1.55
MOR0650053/N*	**65.00**	75.60	5.30	O/R
MOR0650060/N*	**65.00**	77.00	6.00	4.71
MOR0650080/N*	**65.00**	81.00	8.00	O/R
MOR0651035/N*	**65.10**	72.10	3.50	1.08
MOR0660015/N*	**66.00**	69.00	1.50	0.77
MOR0660020/N	**66.00**	70.00	2.00	0.98

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0660025/N	**66.00**	71.00	2.50	0.98
MOR0660030/N	**66.00**	72.00	3.00	1.01
MOR0660035/N	**66.00**	73.00	3.50	1.08
MOR0660040/N*	**66.00**	74.00	4.00	1.35
MOR0660045/N*	**66.00**	75.00	4.50	3.05
MOR0660050/N	**66.00**	76.00	5.00	1.61
MOR0660060/N	**66.00**	78.00	6.00	4.81
MOR0666035/N	**66.60**	73.60	3.50	1.08
MOR0666057/N*	**66.60**	78.00	5.70	1.84
MOR0670015/N	**67.00**	70.00	1.50	0.77
MOR0670020/N	**67.00**	71.00	2.00	1.50
MOR0670025/N	**67.00**	72.00	2.50	0.98
MOR0670030/N	**67.00**	73.00	3.00	1.01
MOR0670035/N	**67.00**	74.00	3.50	1.08
MOR0670040/N	**67.00**	75.00	4.00	1.35
MOR0670050/N	**67.00**	77.00	5.00	1.61
MOR0670053/N*	**67.00**	77.60	5.30	2.33
MOR0670060/N*	**67.00**	79.00	6.00	4.88
MOR0673057/N*	**67.30**	78.70	5.70	1.84
MOR0676024/N*	**67.60**	72.40	2.40	0.57
MOR0679053/N*	**67.90**	78.50	5.30	O/R
MOR0680015/N*	**68.00**	71.00	1.50	0.77
MOR0680020/N	**68.00**	72.00	2.00	0.98
MOR0680025/N	**68.00**	73.00	2.50	0.98
MOR0680030/N	**68.00**	74.00	3.00	1.46
MOR0680035/N	**68.00**	75.00	3.50	1.08
MOR0680040/N	**68.00**	76.00	4.00	1.35
MOR0680045/N*	**68.00**	77.00	4.50	3.10
MOR0680050/N	**68.00**	78.00	5.00	1.61
MOR0680060/N	**68.00**	80.00	6.00	4.94
MOR0682035/N*	**68.20**	75.20	3.50	1.08
MOR0690015/N*	**69.00**	72.00	1.50	0.77
MOR0690020/N*	**69.00**	73.00	2.00	0.98
MOR0690025/N	**69.00**	74.00	2.50	1.42
MOR0690030/N	**69.00**	75.00	3.00	1.01
MOR0690035/N	**69.00**	76.00	3.50	1.08
MOR0690040/N	**69.00**	77.00	4.00	1.35
MOR0690045/N*	**69.00**	78.00	4.50	3.14
MOR0690050/N	**69.00**	79.00	5.00	1.61
MOR0690053/N*	**69.00**	79.60	5.30	O/R
MOR0690060/N	**69.00**	81.00	6.00	4.98
MOR0690080/N*	**69.00**	85.00	8.00	O/R
MOR0692057/N	**69.20**	80.60	5.70	1.84
MOR0693057/N	**69.30**	80.70	5.70	1.84
MOR0694031/N	**69.40**	75.60	3.10	1.55
MOR0695030/N	**69.50**	75.50	3.00	1.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0696024/N*	**69.60**	74.40	2.40	0.58
MOR0696057/N	**69.60**	81.00	5.70	1.84
MOR0698035/N*	**69.80**	76.80	3.50	1.08
MOR0700010/N*	**70.00**	72.00	1.00	1.37
MOR0700015/N*	**70.00**	73.00	1.50	0.77
MOR0700020/N	**70.00**	74.00	2.00	0.98
MOR0700025/N	**70.00**	75.00	2.50	0.98
MOR0700030/N	**70.00**	76.00	3.00	1.01
MOR0700035/N	**70.00**	77.00	3.50	1.08
MOR0700040/N	**70.00**	78.00	4.00	1.35
MOR0700045/N	**70.00**	79.00	4.50	3.15
MOR0700050/N	**70.00**	80.00	5.00	1.61
MOR0700060/N	**70.00**	82.00	6.00	5.03
MOR0700070/N*	**70.00**	84.00	7.00	O/R
MOR0700080/N*	**70.00**	86.00	8.00	32.62
MOR0706057/N	**70.60**	82.00	5.70	1.84
MOR0710015/N	**71.00**	74.00	1.50	0.77
MOR0710020/N	**71.00**	75.00	2.00	1.07
MOR0710025/N	**71.00**	76.00	2.50	0.98
MOR0710030/N	**71.00**	77.00	3.00	1.13
MOR0710035/N	**71.00**	78.00	3.50	1.08
MOR0710040/N*	**71.00**	79.00	4.00	1.40
MOR0710045/N*	**71.00**	80.00	4.50	3.16
MOR0710050/N	**71.00**	81.00	5.00	1.64
MOR0710053/N*	**71.00**	81.60	5.30	O/R
MOR0713057/N*	**71.30**	82.70	5.70	1.84
MOR0714035/N*	**71.40**	78.40	3.50	1.08
MOR0720015/N	**72.00**	75.00	1.50	0.77
MOR0720020/N	**72.00**	76.00	2.00	1.07
MOR0720025/N	**72.00**	77.00	2.50	0.98
MOR0720030/N	**72.00**	78.00	3.00	1.13
MOR0720035/N	**72.00**	79.00	3.50	1.40
MOR0720040/N	**72.00**	80.00	4.00	1.40
MOR0720050/N	**72.00**	82.00	5.00	1.64
MOR0720060/N*	**72.00**	84.00	6.00	5.10
MOR0730015/N	**73.00**	76.00	1.50	0.79
MOR0730020/N*	**73.00**	77.00	2.00	1.07
MOR0730025/N	**73.00**	78.00	2.50	1.63
MOR0730030/N	**73.00**	79.00	3.00	1.13
MOR0730035/N	**73.00**	80.00	3.50	1.40
MOR0730040/N	**73.00**	81.00	4.00	1.40
MOR0730045/N*	**73.00**	82.00	4.50	3.26
MOR0730050/N	**73.00**	83.00	5.00	1.64
MOR0730053/N*	**73.00**	83.60	5.30	O/R
MOR0730060/N*	**73.00**	85.00	6.00	5.14
MOR0740015/N*	**74.00**	77.00	1.50	0.79

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0740020/N	**74.00**	78.00	2.00	1.07
MOR0740025/N	**74.00**	79.00	2.50	1.07
MOR0740030/N	**74.00**	80.00	3.00	1.13
MOR0740035/N	**74.00**	81.00	3.50	1.47
MOR0740040/N	**74.00**	82.00	4.00	1.40
MOR0740045/N*	**74.00**	83.00	4.50	3.33
MOR0740050/N	**74.00**	84.00	5.00	1.68
MOR0740060/N*	**74.00**	86.00	6.00	5.20
MOR0742030/N*	**74.20**	80.20	3.00	1.13
MOR0743026/N*	**74.30**	79.50	2.60	O/R
MOR0743057/N	**74.30**	85.70	5.70	1.84
MOR0744031/N	**74.40**	80.60	3.10	1.76
MOR0745030/N	**74.50**	80.50	3.00	1.13
MOR0745031/N*	**74.50**	80.70	3.10	1.83
MOR0746035/N*	**74.60**	81.60	3.50	1.47
MOR0746053/N*	**74.60**	85.20	5.30	O/R
MOR0746057/N	**74.60**	86.00	5.70	1.84
MOR0750015/N	**75.00**	78.00	1.50	0.79
MOR0750020/N*	**75.00**	79.00	2.00	1.07
MOR0750025/N	**75.00**	80.00	2.50	1.07
MOR0750030/N	**75.00**	81.00	3.00	1.13
MOR0750035/N	**75.00**	82.00	3.50	1.47
MOR0750040/N	**75.00**	83.00	4.00	1.40
MOR0750045/N	**75.00**	84.00	4.50	3.36
MOR0750050/N	**75.00**	85.00	5.00	2.82
MOR0750053/N*	**75.00**	85.60	5.30	O/R
MOR0750060/N	**75.00**	87.00	6.00	5.20
MOR0760015/N*	**76.00**	79.00	1.50	0.79
MOR0760020/N	**76.00**	80.00	2.00	1.13
MOR0760025/N	**76.00**	81.00	2.50	1.13
MOR0760030/N	**76.00**	82.00	3.00	1.21
MOR0760035/N	**76.00**	83.00	3.50	1.47
MOR0760040/N	**76.00**	84.00	4.00	1.47
MOR0760045/N*	**76.00**	85.00	4.50	3.43
MOR0760050/N*	**76.00**	86.00	5.00	1.68
MOR0760060/N*	**76.00**	88.00	6.00	5.30
MOR0760080/N*	**76.00**	92.00	8.00	O/R
MOR0770015/N	**77.00**	80.00	1.50	0.79
MOR0770020/N	**77.00**	81.00	2.00	1.13
MOR0770025/N	**77.00**	82.00	2.50	1.13
MOR0770030/N	**77.00**	83.00	3.00	1.84
MOR0770035/N	**77.00**	84.00	3.50	1.47
MOR0770040/N	**77.00**	85.00	4.00	1.47
MOR0770050/N*	**77.00**	87.00	5.00	1.68
MOR0773057/N*	**77.30**	88.70	5.70	1.84
MOR0775026/N*	**77.50**	82.70	2.60	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0775035/N*	**77.50**	84.50	3.50	1.47
MOR0775053/N*	**77.50**	88.10	5.30	O/R
MOR0780015/N	**78.00**	81.00	1.50	1.51
MOR0780020/N	**78.00**	82.00	2.00	1.13
MOR0780025/N	**78.00**	83.00	2.50	1.13
MOR0780030/N	**78.00**	84.00	3.00	1.21
MOR0780035/N	**78.00**	85.00	3.50	1.47
MOR0780040/N	**78.00**	86.00	4.00	1.47
MOR0780050/N	**78.00**	88.00	5.00	1.68
MOR0780060/N	**78.00**	90.00	6.00	5.36
MOR0785060/N*	**78.50**	90.50	6.00	5.41
MOR0790015/N*	**79.00**	82.00	1.50	1.51
MOR0790017/N	**79.00**	82.40	1.70	5.85
MOR0790020/N	**79.00**	83.00	2.00	1.13
MOR0790025/N	**79.00**	84.00	2.50	1.13
MOR0790030/N	**79.00**	85.00	3.00	1.21
MOR0790035/N*	**79.00**	86.00	3.50	1.47
MOR0790040/N*	**79.00**	87.00	4.00	1.47
MOR0790050/N	**79.00**	89.00	5.00	1.70
MOR0790060/N*	**79.00**	91.00	6.00	5.53
MOR0793057/N	**79.30**	90.70	5.70	1.98
MOR0794031/N	**79.40**	85.60	3.10	1.92
MOR0795030/N	**79.50**	85.50	3.00	1.21
MOR0796057/N	**79.60**	91.00	5.70	1.98
MOR0797053/N*	**79.70**	90.30	5.30	O/R
MOR0800015/N	**80.00**	83.00	1.50	1.51
MOR0800020/N	**80.00**	84.00	2.00	1.13
MOR0800025/N	**80.00**	85.00	2.50	1.13
MOR0800030/N	**80.00**	86.00	3.00	1.21
MOR0800035/N	**80.00**	87.00	3.50	1.47
MOR0800040/N	**80.00**	88.00	4.00	1.47
MOR0800045/N*	**80.00**	89.00	4.50	3.79
MOR0800050/N	**80.00**	90.00	5.00	1.70
MOR0800053/N*	**80.00**	90.60	5.30	O/R
MOR0800060/N*	**80.00**	92.00	6.00	5.57
MOR0800080/N*	**80.00**	96.00	8.00	O/R
MOR0806026/N*	**80.60**	85.80	2.60	O/R
MOR0810015/N*	**81.00**	84.00	1.50	1.51
MOR0810020/N	**81.00**	85.00	2.00	1.21
MOR0810025/N	**81.00**	86.00	2.50	1.21
MOR0810030/N	**81.00**	87.00	3.00	1.27
MOR0810035/N	**81.00**	88.00	3.50	1.47
MOR0810040/N*	**81.00**	89.00	4.00	1.50
MOR0810045/N	**81.00**	90.00	4.50	3.86
MOR0810050/N	**81.00**	91.00	5.00	1.76
MOR0810060/N	**81.00**	93.00	6.00	5.68

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0813057/N*	**81.30**	92.70	5.70	1.98
MOR0815060/N*	**81.50**	93.50	6.00	5.73
MOR0820015/N*	**82.00**	85.00	1.50	1.51
MOR0820020/N	**82.00**	86.00	2.00	1.21
MOR0820025/N	**82.00**	87.00	2.50	1.21
MOR0820030/N	**82.00**	88.00	3.00	1.27
MOR0820035/N	**82.00**	89.00	3.50	1.47
MOR0820040/N	**82.00**	90.00	4.00	1.51
MOR0820050/N	**82.00**	92.00	5.00	1.76
MOR0825035/N*	**82.50**	89.50	3.50	1.47
MOR0825053/N*	**82.50**	93.10	5.30	O/R
MOR0830015/N*	**83.00**	86.00	1.50	1.51
MOR0830020/N	**83.00**	87.00	2.00	1.21
MOR0830025/N*	**83.00**	88.00	2.50	1.21
MOR0830030/N	**83.00**	89.00	3.00	1.27
MOR0830035/N	**83.00**	90.00	3.50	1.47
MOR0830040/N	**83.00**	91.00	4.00	1.51
MOR0830045/N*	**83.00**	92.00	4.50	3.91
MOR0830050/N*	**83.00**	93.00	5.00	1.76
MOR0838026/N*	**83.80**	89.00	2.60	O/R
MOR0840015/N*	**84.00**	87.00	1.50	1.51
MOR0840020/N	**84.00**	88.00	2.00	1.21
MOR0840025/N	**84.00**	89.00	2.50	1.21
MOR0840030/N	**84.00**	90.00	3.00	1.27
MOR0840035/N	**84.00**	91.00	3.50	1.47
MOR0840040/N	**84.00**	92.00	4.00	1.51
MOR0840050/N*	**84.00**	94.00	5.00	1.76
MOR0840060/N*	**84.00**	96.00	6.00	5.83
MOR0841057/N*	**84.10**	95.50	5.70	1.98
MOR0843057/N	**84.30**	95.70	5.70	2.07
MOR0844031/N	**84.40**	90.60	3.10	1.92
MOR0845030/N	**84.50**	90.50	3.00	1.27
MOR0846057/N	**84.60**	96.00	5.70	2.07
MOR0850015/N*	**85.00**	88.00	1.50	1.51
MOR0850020/N	**85.00**	89.00	2.00	1.21
MOR0850025/N	**85.00**	90.00	2.50	1.21
MOR0850030/N	**85.00**	91.00	3.00	1.27
MOR0850035/N	**85.00**	92.00	3.50	1.47
MOR0850040/N	**85.00**	93.00	4.00	1.54
MOR0850045/N*	**85.00**	94.00	4.50	3.97
MOR0850050/N	**85.00**	95.00	5.00	1.76
MOR0850053/N*	**85.00**	95.60	5.30	O/R
MOR0850060/N*	**85.00**	97.00	6.00	5.90
MOR0850070/N*	**85.00**	99.00	7.00	O/R
MOR0850080/N*	**85.00**	101.00	8.00	O/R
MOR0853017/N*	**85.30**	88.70	1.70	5.85

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0860015/N*	**86.00**	89.00	1.50	1.51
MOR0860020/N	**86.00**	90.00	2.00	1.27
MOR0860025/N	**86.00**	91.00	2.50	1.27
MOR0860030/N	**86.00**	92.00	3.00	1.36
MOR0860035/N	**86.00**	93.00	3.50	1.47
MOR0860040/N	**86.00**	94.00	4.00	1.54
MOR0860045/N	**86.00**	95.00	4.50	4.01
MOR0860050/N	**86.00**	96.00	5.00	1.81
MOR0860055/N*	**86.00**	97.00	5.50	O/R
MOR0860060/N*	**86.00**	98.00	6.00	6.00
MOR0870015/N*	**87.00**	90.00	1.50	1.51
MOR0870020/N	**87.00**	91.00	2.00	1.27
MOR0870025/N	**87.00**	92.00	2.50	1.27
MOR0870030/N	**87.00**	93.00	3.00	1.36
MOR0870035/N	**87.00**	94.00	3.50	1.47
MOR0870040/N	**87.00**	95.00	4.00	1.55
MOR0870050/N	**87.00**	97.00	5.00	1.81
MOR0873057/N	**87.30**	98.70	5.70	2.07
MOR0875035/N*	**87.50**	94.50	3.50	1.47
MOR0875053/N*	**87.50**	98.10	5.30	O/R
MOR0880015/N*	**88.00**	91.00	1.50	1.51
MOR0880020/N	**88.00**	92.00	2.00	1.27
MOR0880025/N	**88.00**	93.00	2.50	1.27
MOR0880030/N	**88.00**	94.00	3.00	1.36
MOR0880035/N	**88.00**	95.00	3.50	1.47
MOR0880040/N	**88.00**	96.00	4.00	1.55
MOR0880050/N	**88.00**	98.00	5.00	1.81
MOR0880060/N	**88.00**	100.00	6.00	6.15
MOR0890015/N*	**89.00**	92.00	1.50	1.51
MOR0890020/N	**89.00**	93.00	2.00	1.27
MOR0890025/N*	**89.00**	94.00	2.50	1.27
MOR0890030/N	**89.00**	95.00	3.00	1.36
MOR0890035/N	**89.00**	96.00	3.50	1.47
MOR0890040/N	**89.00**	97.00	4.00	1.55
MOR0890045/N*	**89.00**	98.00	4.50	4.03
MOR0890050/N	**89.00**	99.00	5.00	1.81
MOR0892031/N*	**89.20**	95.40	3.10	O/R
MOR0893057/N	**89.30**	100.70	5.70	2.21
MOR0894031/N	**89.40**	95.60	3.10	1.97
MOR0895030/N	**89.50**	95.50	3.00	1.36
MOR0896053/N	**89.60**	100.20	5.30	9.36
MOR0896057/N	**89.60**	101.00	5.70	2.60
MOR0900015/N*	**90.00**	93.00	1.50	1.51
MOR0900020/N*	**90.00**	94.00	2.00	1.27
MOR0900025/N	**90.00**	95.00	2.50	1.27
MOR0900030/N	**90.00**	96.00	3.00	1.36

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0900035/N	**90.00**	97.00	3.50	1.47
MOR0900040/N	**90.00**	98.00	4.00	1.55
MOR0900045/N*	**90.00**	99.00	4.50	4.13
MOR0900050/N	**90.00**	100.00	5.00	1.81
MOR0900053/N	**90.00**	100.60	5.30	2.91
MOR0900060/N	**90.00**	102.00	6.00	6.21
MOR0900070/N*	**90.00**	104.00	7.00	4.71
MOR0910015/N*	**91.00**	94.00	1.50	1.51
MOR0910020/N*	**91.00**	95.00	2.00	1.27
MOR0910025/N*	**91.00**	96.00	2.50	1.54
MOR0910030/N	**91.00**	97.00	3.00	1.54
MOR0910035/N*	**91.00**	98.00	3.50	1.47
MOR0910040/N*	**91.00**	99.00	4.00	1.84
MOR0910050/N	**91.00**	101.00	5.00	1.99
MOR0917017/N*	**91.70**	95.10	1.70	6.55
MOR0920015/N*	**92.00**	95.00	1.50	1.51
MOR0920020/N*	**92.00**	96.00	2.00	1.27
MOR0920025/N	**92.00**	97.00	2.50	1.54
MOR0920030/N	**92.00**	98.00	3.00	1.54
MOR0920035/N	**92.00**	99.00	3.50	1.47
MOR0920040/N	**92.00**	100.00	4.00	1.84
MOR0920045/N	**92.00**	101.00	4.50	4.16
MOR0920050/N	**92.00**	102.00	5.00	1.99
MOR0920060/N*	**92.00**	104.00	6.00	6.27
MOR0920070/N*	**92.00**	106.00	7.00	O/R
MOR0920080/N*	**92.00**	108.00	8.00	O/R
MOR0925035/N*	**92.50**	99.50	3.50	1.47
MOR0925053/N*	**92.50**	103.10	5.30	O/R
MOR0930015/N*	**93.00**	96.00	1.50	1.51
MOR0930020/N	**93.00**	97.00	2.00	1.27
MOR0930025/N*	**93.00**	98.00	2.50	1.54
MOR0930030/N	**93.00**	99.00	3.00	1.54
MOR0930035/N	**93.00**	100.00	3.50	1.47
MOR0930040/N	**93.00**	101.00	4.00	1.84
MOR0930050/N*	**93.00**	103.00	5.00	2.21
MOR0930060/N*	**93.00**	105.00	6.00	6.34
MOR0935045/N*	**93.50**	102.50	4.50	4.30
MOR0940015/N*	**94.00**	97.00	1.50	1.51
MOR0940020/N*	**94.00**	98.00	2.00	1.54
MOR0940025/N	**94.00**	99.00	2.50	1.54
MOR0940030/N	**94.00**	100.00	3.00	1.54
MOR0940035/N	**94.00**	101.00	3.50	1.47
MOR0940040/N	**94.00**	102.00	4.00	1.84
MOR0940050/N*	**94.00**	104.00	5.00	2.21
MOR0943057/N	**94.30**	105.70	5.70	4.57
MOR0944031/N	**94.40**	100.60	3.10	1.98

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0945030/N	**94.50**	100.50	3.00	1.54
MOR0946057/N*	**94.60**	106.00	5.70	6.24
MOR0950015/N*	**95.00**	98.00	1.50	1.51
MOR0950020/N	**95.00**	99.00	2.00	1.54
MOR0950025/N	**95.00**	100.00	2.50	1.54
MOR0950030/N	**95.00**	101.00	3.00	3.02
MOR0950035/N	**95.00**	102.00	3.50	1.47
MOR0950040/N	**95.00**	103.00	4.00	1.84
MOR0950045/N*	**95.00**	104.00	4.50	4.33
MOR0950050/N	**95.00**	105.00	5.00	2.21
MOR0950053/N*	**95.00**	105.60	5.30	O/R
MOR0950060/N*	**95.00**	107.00	6.00	6.36
MOR0960015/N*	**96.00**	99.00	1.50	1.88
MOR0960020/N*	**96.00**	100.00	2.00	1.54
MOR0960025/N	**96.00**	101.00	2.50	1.54
MOR0960030/N	**96.00**	102.00	3.00	1.54
MOR0960035/N	**96.00**	103.00	3.50	1.47
MOR0960040/N	**96.00**	104.00	4.00	1.84
MOR0960050/N	**96.00**	106.00	5.00	2.21
MOR0960060/N*	**96.00**	108.00	6.00	6.36
MOR0960090/N*	**96.00**	114.00	9.00	26.18
MOR0970015/N	**97.00**	100.00	1.50	2.12
MOR0970020/N*	**97.00**	101.00	2.00	1.54
MOR0970025/N*	**97.00**	102.00	2.50	1.54
MOR0970030/N	**97.00**	103.00	3.00	2.53
MOR0970035/N*	**97.00**	104.00	3.50	1.47
MOR0970040/N*	**97.00**	105.00	4.00	1.84
MOR0970050/N*	**97.00**	107.00	5.00	2.21
MOR0973057/N	**97.30**	108.70	5.70	2.60
MOR0975035/N*	**97.50**	104.50	3.50	1.47
MOR0975045/N*	**97.50**	106.50	4.50	4.51
MOR0975053/N*	**97.50**	108.10	5.30	O/R
MOR0980015/N	**98.00**	101.00	1.50	2.38
MOR0980017/N*	**98.00**	101.40	1.70	6.55
MOR0980020/N*	**98.00**	102.00	2.00	1.54
MOR0980025/N	**98.00**	103.00	2.50	1.54
MOR0980030/N	**98.00**	104.00	3.00	1.54
MOR0980035/N	**98.00**	105.00	3.50	1.47
MOR0980040/N	**98.00**	106.00	4.00	1.84
MOR0980045/N*	**98.00**	107.00	4.50	4.51
MOR0980050/N*	**98.00**	108.00	5.00	2.21
MOR0980060/N*	**98.00**	110.00	6.00	6.41
MOR0980070/N*	**98.00**	112.00	7.00	O/R
MOR0990015/N*	**99.00**	102.00	1.50	3.06
MOR0990020/N*	**99.00**	103.00	2.00	1.54
MOR0990025/N	**99.00**	104.00	2.50	1.54

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0990030/N	**99.00**	105.00	3.00	1.54
MOR0990035/N	**99.00**	106.00	3.50	1.47
MOR0990040/N	**99.00**	107.00	4.00	1.84
MOR0990050/N	**99.00**	109.00	5.00	2.21
MOR0990060/N*	**99.00**	111.00	6.00	6.49
MOR0993057/N	**99.30**	110.70	5.70	2.60
MOR0994031/N	**99.40**	105.60	3.10	2.17
MOR0995030/N	**99.50**	105.50	3.00	1.54
MOR0995045/N*	**99.50**	108.50	4.50	4.71
MOR0996057/N	**99.60**	111.00	5.70	2.60
MOR1000015/N	**100.00**	103.00	1.50	3.10
MOR1000020/N	**100.00**	104.00	2.00	1.54
MOR1000025/N	**100.00**	105.00	2.50	1.54
MOR1000030/N	**100.00**	106.00	3.00	1.54
MOR1000035/N	**100.00**	107.00	3.50	1.47
MOR1000040/N	**100.00**	108.00	4.00	1.84
MOR1000045/N*	**100.00**	109.00	4.50	4.71
MOR1000050/N	**100.00**	110.00	5.00	2.21
MOR1000053/N	**100.00**	110.60	5.30	5.62
MOR1000060/N	**100.00**	112.00	6.00	6.49
MOR1000080/N*	**100.00**	116.00	8.00	8.90
MOR1000100/N*	**100.00**	120.00	10.00	O/R
MOR1005045/N*	**100.50**	109.50	4.50	4.71
MOR1010020/N*	**101.00**	105.00	2.00	1.76
MOR1010025/N	**101.00**	106.00	2.50	1.66
MOR1010030/N	**101.00**	107.00	3.00	1.55
MOR1010035/N*	**101.00**	108.00	3.50	1.47
MOR1010040/N*	**101.00**	109.00	4.00	1.97
MOR1010045/N*	**101.00**	110.00	4.50	4.75
MOR1010050/N	**101.00**	111.00	5.00	2.34
MOR1010060/N*	**101.00**	113.00	6.00	6.54
MOR1016057/N	**101.60**	113.00	5.70	2.60
MOR1020020/N	**102.00**	106.00	2.00	1.76
MOR1020025/N	**102.00**	107.00	2.50	1.66
MOR1020030/N	**102.00**	108.00	3.00	1.55
MOR1020035/N*	**102.00**	109.00	3.50	1.47
MOR1020040/N	**102.00**	110.00	4.00	1.97
MOR1020050/N*	**102.00**	112.00	5.00	2.34
MOR1030020/N*	**103.00**	107.00	2.00	1.76
MOR1030025/N	**103.00**	108.00	2.50	2.53
MOR1030030/N	**103.00**	109.00	3.00	1.55
MOR1030035/N	**103.00**	110.00	3.50	3.54
MOR1030040/N*	**103.00**	111.00	4.00	1.97
MOR1030050/N*	**103.00**	113.00	5.00	2.34
MOR1030053/N*	**103.00**	113.60	5.30	O/R
MOR1030060/N*	**103.00**	115.00	6.00	6.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1035045/N*	**103.50**	112.50	4.50	4.88
MOR1040025/N*	**104.00**	109.00	2.50	1.66
MOR1040030/N	**104.00**	110.00	3.00	1.55
MOR1040035/N	**104.00**	111.00	3.50	1.47
MOR1040040/N*	**104.00**	112.00	4.00	2.85
MOR1040050/N	**104.00**	114.00	5.00	2.34
MOR1040060/N	**104.00**	116.00	6.00	6.64
MOR1042031/N*	**104.20**	110.40	3.10	2.17
MOR1043057/N	**104.30**	115.70	5.70	2.66
MOR1044017/N*	**104.40**	107.80	1.70	6.55
MOR1044031/N	**104.40**	110.60	3.10	2.17
MOR1045030/N	**104.50**	110.50	3.00	1.55
MOR1045060/N*	**104.50**	116.50	6.00	6.69
MOR1046057/N*	**104.60**	116.00	5.70	2.66
MOR1050020/N	**105.00**	109.00	2.00	1.76
MOR1050025/N	**105.00**	110.00	2.50	1.66
MOR1050030/N	**105.00**	111.00	3.00	1.56
MOR1050035/N	**105.00**	112.00	3.50	2.68
MOR1050040/N	**105.00**	113.00	4.00	1.97
MOR1050045/N*	**105.00**	114.00	4.50	4.98
MOR1050050/N	**105.00**	115.00	5.00	2.34
MOR1050060/N*	**105.00**	117.00	6.00	6.75
MOR1050070/N*	**105.00**	119.00	7.00	5.67
MOR1050100/N*	**105.00**	125.00	10.00	O/R
MOR1060020/N*	**106.00**	110.00	2.00	1.76
MOR1060025/N	**106.00**	111.00	2.50	1.66
MOR1060030/N	**106.00**	112.00	3.00	1.56
MOR1060035/N	**106.00**	113.00	3.50	1.47
MOR1060040/N*	**106.00**	114.00	4.00	1.97
MOR1060045/N*	**106.00**	115.00	4.50	5.10
MOR1060050/N	**106.00**	116.00	5.00	2.34
MOR1060053/N*	**106.00**	116.60	5.30	O/R
MOR1060060/N*	**106.00**	118.00	6.00	6.80
MOR1070025/N	**107.00**	112.00	2.50	1.66
MOR1070030/N	**107.00**	113.00	3.00	1.56
MOR1070035/N*	**107.00**	114.00	3.50	1.47
MOR1070040/N	**107.00**	115.00	4.00	1.97
MOR1070050/N	**107.00**	117.00	5.00	2.34
MOR1080025/N*	**108.00**	113.00	2.50	1.66
MOR1080030/N	**108.00**	114.00	3.00	1.56
MOR1080035/N	**108.00**	115.00	3.50	2.78
MOR1080040/N	**108.00**	116.00	4.00	1.97
MOR1080050/N*	**108.00**	118.00	5.00	2.34
MOR1080060/N	**108.00**	120.00	6.00	6.96
MOR1090020/N	**109.00**	113.00	2.00	1.76
MOR1090025/N*	**109.00**	114.00	2.50	1.66

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1090030/N	**109.00**	115.00	3.00	1.56
MOR1090035/N	**109.00**	116.00	3.50	1.47
MOR1090040/N	**109.00**	117.00	4.00	2.85
MOR1090050/N*	**109.00**	119.00	5.00	2.34
MOR1090053/N*	**109.00**	119.60	5.30	O/R
MOR1093057/N	**109.30**	120.70	5.70	2.66
MOR1094031/N	**109.40**	115.60	3.10	2.43
MOR1095030/N	**109.50**	115.50	3.00	1.56
MOR1095031/N	**109.50**	115.70	3.10	2.43
MOR1095053/N*	**109.50**	120.10	5.30	O/R
MOR1096057/N*	**109.60**	121.00	5.70	2.66
MOR1100020/N	**110.00**	114.00	2.00	2.24
MOR1100025/N	**110.00**	115.00	2.50	1.66
MOR1100030/N	**110.00**	116.00	3.00	1.56
MOR1100035/N	**110.00**	117.00	3.50	1.47
MOR1100040/N	**110.00**	118.00	4.00	1.98
MOR1100045/N*	**110.00**	119.00	4.50	5.53
MOR1100050/N	**110.00**	120.00	5.00	2.34
MOR1100060/N	**110.00**	122.00	6.00	7.08
MOR1107017/N*	**110.70**	114.10	1.70	6.55
MOR1110025/N	**111.00**	116.00	2.50	1.66
MOR1110030/N	**111.00**	117.00	3.00	1.75
MOR1110035/N*	**111.00**	118.00	3.50	1.47
MOR1110040/N	**111.00**	119.00	4.00	2.04
MOR1110050/N*	**111.00**	121.00	5.00	2.36
MOR1110060/N*	**111.00**	123.00	6.00	7.14
MOR1116057/N	**111.60**	123.00	5.70	2.66
MOR1120020/N	**112.00**	116.00	2.00	2.24
MOR1120025/N*	**112.00**	117.00	2.50	1.66
MOR1120030/N	**112.00**	118.00	3.00	1.75
MOR1120035/N	**112.00**	119.00	3.50	1.47
MOR1120040/N	**112.00**	120.00	4.00	2.04
MOR1120050/N	**112.00**	122.00	5.00	2.36
MOR1120053/N*	**112.00**	122.60	5.30	O/R
MOR1120060/N*	**112.00**	124.00	6.00	7.17
MOR1120080/N*	**112.00**	128.00	8.00	O/R
MOR1130025/N*	**113.00**	118.00	2.50	1.66
MOR1130030/N	**113.00**	119.00	3.00	1.75
MOR1130035/N*	**113.00**	120.00	3.50	1.47
MOR1130040/N	**113.00**	121.00	4.00	2.04
MOR1130050/N	**113.00**	123.00	5.00	2.49
MOR1140025/N*	**114.00**	119.00	2.50	1.66
MOR1140030/N	**114.00**	120.00	3.00	2.78
MOR1140032/N*	**114.00**	120.50	3.25	2.01
MOR1140035/N	**114.00**	121.00	3.50	1.47
MOR1140040/N	**114.00**	122.00	4.00	2.04

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1140050/N*	**114.00**	124.00	5.00	2.49
MOR1140060/N	**114.00**	126.00	6.00	7.17
MOR1140100/N*	**114.00**	134.00	10.00	O/R
MOR1142025/N*	**114.20**	119.20	2.50	1.71
MOR1143057/N	**114.30**	125.70	5.70	3.09
MOR1144031/N	**114.40**	120.60	3.10	2.85
MOR1145020/N*	**114.50**	118.50	2.00	2.24
MOR1145030/N	**114.50**	120.50	3.00	1.75
MOR1146057/N	**114.60**	126.00	5.70	3.09
MOR1147069/N*	**114.70**	128.50	6.90	O/R
MOR1150020/N	**115.00**	119.00	2.00	2.24
MOR1150025/N	**115.00**	120.00	2.50	1.66
MOR1150030/N	**115.00**	121.00	3.00	1.75
MOR1150035/N	**115.00**	122.00	3.50	1.47
MOR1150040/N	**115.00**	123.00	4.00	2.04
MOR1150045/N*	**115.00**	124.00	4.50	5.73
MOR1150050/N	**115.00**	125.00	5.00	2.49
MOR1150053/N	**115.00**	125.60	5.30	6.21
MOR1150060/N*	**115.00**	127.00	6.00	7.30
MOR1160025/N*	**116.00**	121.00	2.50	2.92
MOR1160030/N	**116.00**	122.00	3.00	1.75
MOR1160035/N	**116.00**	123.00	3.50	1.47
MOR1160040/N*	**116.00**	124.00	4.00	3.20
MOR1160050/N	**116.00**	126.00	5.00	2.49
MOR1160060/N*	**116.00**	128.00	6.00	7.47
MOR1170017/N*	**11.70**	15.10	1.70	5.01
MOR1170025/N	**117.00**	122.00	2.50	1.66
MOR1170030/N	**117.00**	123.00	3.00	1.75
MOR1170035/N	**117.00**	124.00	3.50	1.47
MOR1170040/N	**117.00**	125.00	4.00	2.04
MOR1170050/N*	**117.00**	127.00	5.00	2.49
MOR1171017/N*	**117.10**	120.50	1.70	7.23
MOR1174053/N*	**117.40**	128.00	5.30	O/R
MOR1180025/N	**118.00**	123.00	2.50	1.66
MOR1180030/N	**118.00**	124.00	3.00	1.75
MOR1180035/N	**118.00**	125.00	3.50	1.47
MOR1180040/N*	**118.00**	126.00	4.00	2.04
MOR1180045/N*	**118.00**	127.00	4.50	5.90
MOR1180050/N	**118.00**	128.00	5.00	2.49
MOR1180053/N*	**118.00**	128.60	5.30	O/R
MOR1180060/N	**118.00**	130.00	6.00	7.56
MOR1190020/N*	**11.90**	15.90	2.00	1.70
MOR1190025/N*	**119.00**	124.00	2.50	1.66
MOR1190030/N	**119.00**	125.00	3.00	1.75
MOR1190035/N*	**119.00**	126.00	3.50	2.04
MOR1190040/N*	**119.00**	127.00	4.00	2.04

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1190050/N*	**119.00**	129.00	5.00	2.55
MOR1193057/N	**119.30**	130.70	5.70	3.09
MOR1194031/N	**119.40**	125.60	3.10	2.81
MOR1195030/N	**119.50**	125.50	3.00	1.75
MOR1196057/N	**119.60**	131.00	5.70	4.33
MOR1200025/N	**120.00**	125.00	2.50	1.66
MOR1200030/N	**120.00**	126.00	3.00	1.75
MOR1200035/N	**120.00**	127.00	3.50	2.04
MOR1200040/N	**120.00**	128.00	4.00	2.04
MOR1200045/N*	**120.00**	129.00	4.50	6.07
MOR1200050/N	**120.00**	130.00	5.00	2.55
MOR1200053/N*	**120.00**	130.60	5.30	O/R
MOR1200060/N	**120.00**	132.00	6.00	7.81
MOR1200069/N*	**120.00**	133.80	6.90	O/R
MOR1202035/N*	**120.20**	127.20	3.50	2.03
MOR1203017/N*	**120.30**	123.70	1.70	7.23
MOR1203026/N*	**120.30**	125.50	2.60	O/R
MOR1206053/N*	**120.60**	131.20	5.30	O/R
MOR1210025/N	**121.00**	126.00	2.50	1.66
MOR1210030/N	**121.00**	127.00	3.00	1.95
MOR1210035/N*	**121.00**	128.00	3.50	2.05
MOR1210040/N*	**121.00**	129.00	4.00	2.12
MOR1210050/N*	**121.00**	131.00	5.00	2.60
MOR1220020/N	**122.00**	126.00	2.00	2.24
MOR1220025/N*	**122.00**	127.00	2.50	1.66
MOR1220030/N	**122.00**	128.00	3.00	1.95
MOR1220035/N	**122.00**	129.00	3.50	2.05
MOR1220040/N	**122.00**	130.00	4.00	2.12
MOR1220045/N*	**122.00**	131.00	4.50	6.21
MOR1220050/N*	**122.00**	132.00	5.00	4.60
MOR1220053/N*	**122.00**	132.60	5.30	O/R
MOR1220060/N*	**122.00**	134.00	6.00	7.98
MOR1230025/N	**123.00**	128.00	2.50	1.66
MOR1230030/N	**123.00**	129.00	3.00	1.95
MOR1230035/N	**123.00**	130.00	3.50	2.05
MOR1230040/N*	**123.00**	131.00	4.00	2.12
MOR1230050/N*	**123.00**	133.00	5.00	2.68
MOR1230060/N*	**123.00**	135.00	6.00	8.15
MOR1234017/N*	**123.40**	126.80	1.70	7.23
MOR1238053/N*	**123.80**	134.40	5.30	O/R
MOR1240025/N	**124.00**	129.00	2.50	1.66
MOR1240030/N	**124.00**	130.00	3.00	1.95
MOR1240035/N	**124.00**	131.00	3.50	2.05
MOR1240040/N	**124.00**	132.00	4.00	2.12
MOR1240045/N*	**124.00**	133.00	4.50	6.34
MOR1240050/N*	**124.00**	134.00	5.00	2.68

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1240060/N	**124.00**	136.00	6.00	8.30
MOR1243057/N	**124.30**	135.70	5.70	3.09
MOR1244031/N	**124.40**	130.60	3.10	2.96
MOR1245030/N	**124.50**	130.50	3.00	1.95
MOR1246057/N	**124.60**	136.00	5.70	3.09
MOR1246069/N*	**124.60**	138.40	6.90	O/R
MOR1250020/N	**125.00**	129.00	2.00	2.24
MOR1250025/N	**125.00**	130.00	2.50	3.47
MOR1250030/N	**125.00**	131.00	3.00	1.95
MOR1250035/N	**125.00**	132.00	3.50	2.05
MOR1250040/N	**125.00**	133.00	4.00	2.12
MOR1250050/N	**125.00**	135.00	5.00	2.68
MOR1250053/N*	**125.00**	135.60	5.30	O/R
MOR1250060/N*	**125.00**	137.00	6.00	8.45
MOR1260025/N*	**126.00**	131.00	2.50	1.66
MOR1260030/N	**126.00**	132.00	3.00	1.95
MOR1260035/N*	**126.00**	133.00	3.50	2.05
MOR1260040/N	**126.00**	134.00	4.00	2.12
MOR1260045/N*	**126.00**	135.00	4.50	6.41
MOR1260050/N*	**126.00**	136.00	5.00	2.68
MOR1270020/N	**127.00**	131.00	2.00	5.77
MOR1270025/N	**127.00**	132.00	2.50	1.66
MOR1270030/N	**127.00**	133.00	3.00	1.95
MOR1270035/N*	**127.00**	134.00	3.50	2.05
MOR1270040/N	**127.00**	135.00	4.00	2.12
MOR1270050/N*	**127.00**	137.00	5.00	2.68
MOR1270053/N*	**127.00**	137.60	5.30	O/R
MOR1270080/N*	**127.00**	143.00	8.00	O/R
MOR1274031/N*	**127.40**	133.60	3.10	3.00
MOR1280020/N	**128.00**	132.00	2.00	2.24
MOR1280025/N*	**128.00**	133.00	2.50	1.66
MOR1280030/N	**128.00**	134.00	3.00	1.95
MOR1280035/N*	**128.00**	135.00	3.50	2.05
MOR1280040/N*	**128.00**	136.00	4.00	2.12
MOR1280045/N*	**128.00**	137.00	4.50	6.54
MOR1280050/N*	**128.00**	138.00	5.00	2.68
MOR1280053/N*	**128.00**	138.60	5.30	O/R
MOR1280060/N*	**128.00**	140.00	6.00	8.62
MOR1290025/N	**129.00**	134.00	2.50	1.66
MOR1290030/N	**129.00**	135.00	3.00	1.95
MOR1290035/N*	**129.00**	136.00	3.50	2.05
MOR1290040/N*	**129.00**	137.00	4.00	2.12
MOR1290050/N*	**129.00**	139.00	5.00	2.68
MOR1293057/N	**129.30**	140.70	5.70	3.09
MOR1294017/N*	**129.40**	132.80	1.70	7.23
MOR1294031/N	**129.40**	135.60	3.10	3.05

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1295030/N*	**129.50**	135.50	3.00	1.95
MOR1295053/N*	**129.50**	140.10	5.30	O/R
MOR1296057/N	**129.60**	141.00	5.70	3.09
MOR1300020/N	**130.00**	134.00	2.00	2.71
MOR1300025/N	**130.00**	135.00	2.50	1.66
MOR1300030/N	**130.00**	136.00	3.00	1.95
MOR1300035/N	**130.00**	137.00	3.50	2.05
MOR1300040/N*	**130.00**	138.00	4.00	2.12
MOR1300045/N*	**130.00**	139.00	4.50	6.64
MOR1300050/N	**130.00**	140.00	5.00	2.68
MOR1300060/N	**130.00**	142.00	6.00	8.72
MOR1300080/N*	**130.00**	146.00	8.00	O/R
MOR1301053/N*	**130.10**	140.70	5.30	O/R
MOR1310025/N	**131.00**	136.00	2.50	1.66
MOR1310030/N	**131.00**	137.00	3.00	1.95
MOR1310035/N*	**131.00**	138.00	3.50	2.05
MOR1310040/N*	**131.00**	139.00	4.00	2.15
MOR1310050/N*	**131.00**	141.00	5.00	2.80
MOR1315045/N	**131.50**	140.50	4.50	6.69
MOR1316057/N*	**131.60**	143.00	5.70	3.09
MOR1320025/N*	**132.00**	137.00	2.50	1.66
MOR1320030/N	**132.00**	138.00	3.00	1.95
MOR1320035/N	**132.00**	139.00	3.50	3.29
MOR1320040/N	**132.00**	140.00	4.00	2.15
MOR1320050/N*	**132.00**	142.00	5.00	2.80
MOR1320053/N*	**132.00**	142.60	5.30	O/R
MOR1320060/N*	**132.00**	144.00	6.00	9.05
MOR1330025/N*	**133.00**	138.00	2.50	1.66
MOR1330030/N	**133.00**	139.00	3.00	2.26
MOR1330035/N	**133.00**	140.00	3.50	2.53
MOR1330040/N	**133.00**	141.00	4.00	2.15
MOR1330050/N	**133.00**	143.00	5.00	2.80
MOR1333053/N*	**133.30**	143.90	5.30	O/R
MOR1340025/N	**134.00**	139.00	2.50	6.39
MOR1340030/N	**134.00**	140.00	3.00	2.26
MOR1340035/N	**134.00**	141.00	3.50	2.53
MOR1340040/N*	**134.00**	142.00	4.00	2.15
MOR1340050/N*	**134.00**	144.00	5.00	2.80
MOR1340060/N*	**134.00**	146.00	6.00	9.26
MOR1343057/N	**134.30**	145.70	5.70	3.33
MOR1344031/N	**134.40**	140.60	3.10	3.60
MOR1345030/N	**134.50**	140.50	3.00	2.26
MOR1345045/N*	**134.50**	143.50	4.50	6.96
MOR1345069/N*	**134.50**	148.30	6.90	O/R
MOR1346057/N*	**134.60**	146.00	5.70	3.33
MOR1350015/N*	**135.00**	138.00	1.50	3.62

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1350020/N	**135.00**	139.00	2.00	2.71
MOR1350025/N	**135.00**	140.00	2.50	1.66
MOR1350030/N	**135.00**	141.00	3.00	2.26
MOR1350035/N	**135.00**	142.00	3.50	2.53
MOR1350040/N	**135.00**	143.00	4.00	2.15
MOR1350050/N	**135.00**	145.00	5.00	2.80
MOR1350060/N*	**135.00**	147.00	6.00	9.42
MOR1350070/N*	**135.00**	149.00	7.00	O/R
MOR1357017/N*	**135.70**	139.10	1.70	7.23
MOR1360025/N*	**136.00**	141.00	2.50	1.66
MOR1360030/N	**136.00**	142.00	3.00	4.55
MOR1360035/N*	**136.00**	143.00	3.50	2.53
MOR1360040/N*	**136.00**	144.00	4.00	2.15
MOR1360050/N	**136.00**	146.00	5.00	2.80
MOR1360053/N*	**136.00**	146.60	5.30	O/R
MOR1360060/N*	**136.00**	148.00	6.00	9.53
MOR1361035/N*	**136.10**	143.10	3.50	2.53
MOR1365053/N*	**136.50**	147.10	5.30	O/R
MOR1370025/N*	**137.00**	142.00	2.50	1.66
MOR1370030/N	**137.00**	143.00	3.00	2.26
MOR1370035/N*	**137.00**	144.00	3.50	2.53
MOR1370040/N	**137.00**	145.00	4.00	2.15
MOR1370045/N*	**137.00**	146.00	4.50	7.17
MOR1370050/N*	**137.00**	147.00	5.00	2.80
MOR1380025/N*	**138.00**	143.00	2.50	1.66
MOR1380030/N	**138.00**	144.00	3.00	2.26
MOR1380035/N	**138.00**	145.00	3.50	2.53
MOR1380040/N	**138.00**	146.00	4.00	2.26
MOR1380050/N*	**138.00**	148.00	5.00	2.80
MOR1380060/N	**138.00**	150.00	6.00	9.65
MOR1389017/N	**138.90**	142.30	1.70	7.62
MOR1390025/N*	**139.00**	144.00	2.50	1.66
MOR1390030/N	**139.00**	145.00	3.00	2.26
MOR1390035/N*	**139.00**	146.00	3.50	2.53
MOR1390040/N*	**139.00**	147.00	4.00	2.26
MOR1390050/N*	**139.00**	149.00	5.00	2.80
MOR1392060/N*	**139.20**	151.20	6.00	9.70
MOR1393057/N	**139.30**	150.70	5.70	6.11
MOR1394031/N	**139.40**	145.60	3.10	3.63
MOR1395030/N	**139.50**	145.50	3.00	2.26
MOR1396057/N	**139.60**	151.00	5.70	3.33
MOR1397053/N*	**139.70**	150.30	5.30	O/R
MOR1400020/N	**140.00**	144.00	2.00	2.71
MOR1400025/N	**140.00**	145.00	2.50	1.66
MOR1400030/N	**140.00**	146.00	3.00	2.26
MOR1400035/N	**140.00**	147.00	3.50	2.53

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1400040/N	**140.00**	148.00	4.00	2.26
MOR1400045/N*	**140.00**	149.00	4.50	7.43
MOR1400050/N	**140.00**	150.00	5.00	2.80
MOR1400053/N	**140.00**	150.60	5.30	6.30
MOR1400060/N*	**140.00**	152.00	6.00	9.75
MOR1400100/N*	**140.00**	160.00	10.00	19.60
MOR1405045/N*	**140.50**	149.50	4.50	7.43
MOR1410025/N*	**141.00**	146.00	2.50	2.39
MOR1410030/N*	**141.00**	147.00	3.00	2.26
MOR1410035/N*	**141.00**	148.00	3.50	2.53
MOR1410040/N*	**141.00**	149.00	4.00	2.52
MOR1410050/N*	**141.00**	151.00	5.00	2.91
MOR1420025/N*	**142.00**	147.00	2.50	2.61
MOR1420030/N*	**142.00**	148.00	3.00	2.26
MOR1420035/N*	**142.00**	149.00	3.50	2.53
MOR1420040/N	**142.00**	150.00	4.00	2.52
MOR1420050/N	**142.00**	152.00	5.00	2.91
MOR1420060/N	**142.00**	154.00	6.00	10.45
MOR1421017/N*	**142.10**	145.50	1.70	7.62
MOR1428053/N*	**142.80**	153.40	5.30	O/R
MOR1430025/N*	**143.00**	148.00	2.50	2.82
MOR1430030/N	**143.00**	149.00	3.00	2.26
MOR1430035/N	**143.00**	150.00	3.50	2.53
MOR1430040/N*	**143.00**	151.00	4.00	2.52
MOR1430050/N*	**143.00**	153.00	5.00	2.91
MOR1440025/N*	**144.00**	149.00	2.50	3.41
MOR1440030/N	**144.00**	150.00	3.00	2.26
MOR1440035/N	**144.00**	151.00	3.50	2.53
MOR1440040/N*	**144.00**	152.00	4.00	2.52
MOR1440050/N*	**144.00**	154.00	5.00	2.91
MOR1441084/N	**144.10**	160.90	8.40	10.24
MOR1443057/N	**144.30**	155.70	5.70	3.45
MOR1444031/N	**144.40**	150.60	3.10	3.72
MOR1445030/N	**144.50**	150.50	3.00	2.26
MOR1446057/N	**144.60**	156.00	5.70	3.45
MOR1450015/N*	**145.00**	148.00	1.50	5.52
MOR1450025/N	**145.00**	150.00	2.50	3.86
MOR1450030/N	**145.00**	151.00	3.00	2.26
MOR1450035/N	**145.00**	152.00	3.50	2.53
MOR1450040/N	**145.00**	153.00	4.00	2.52
MOR1450050/N	**145.00**	155.00	5.00	2.96
MOR1450053/N*	**145.00**	155.60	5.30	O/R
MOR1450060/N*	**145.00**	157.00	6.00	10.92
MOR1450100/N*	**145.00**	165.00	10.00	22.69
MOR1452017/N	**145.20**	148.60	1.70	7.62
MOR1460025/N	**146.00**	151.00	2.50	4.31

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1460030/N	**146.00**	152.00	3.00	2.26
MOR1460035/N*	**146.00**	153.00	3.50	3.38
MOR1460040/N	**146.00**	154.00	4.00	2.52
MOR1460050/N*	**146.00**	156.00	5.00	2.96
MOR1460053/N*	**146.00**	156.60	5.30	O/R
MOR1460060/N*	**146.00**	158.00	6.00	10.97
MOR1460080/N*	**146.00**	162.00	8.00	O/R
MOR1470025/N*	**147.00**	152.00	2.50	4.89
MOR1470030/N*	**147.00**	153.00	3.00	2.26
MOR1470035/N*	**147.00**	154.00	3.50	3.38
MOR1470040/N*	**147.00**	155.00	4.00	2.52
MOR1470050/N*	**147.00**	157.00	5.00	2.96
MOR1480020/N	**148.00**	152.00	2.00	2.71
MOR1480025/N	**148.00**	153.00	2.50	5.24
MOR1480030/N	**148.00**	154.00	3.00	2.26
MOR1480035/N*	**148.00**	155.00	3.50	3.38
MOR1480040/N	**148.00**	156.00	4.00	2.52
MOR1480050/N	**148.00**	158.00	5.00	2.96
MOR1480060/N	**148.00**	160.00	6.00	11.10
MOR1484017/N*	**148.40**	151.80	1.70	7.62
MOR1490025/N	**149.00**	154.00	2.50	5.62
MOR1490030/N*	**149.00**	155.00	3.00	2.26
MOR1490035/N	**149.00**	156.00	3.50	3.38
MOR1490040/N*	**149.00**	157.00	4.00	2.52
MOR1490050/N*	**149.00**	159.00	5.00	2.96
MOR1491084/N*	**149.10**	165.90	8.40	12.70
MOR1492053/N*	**149.20**	159.80	5.30	O/R
MOR1493057/N	**149.30**	160.70	5.70	4.80
MOR1495030/N	**149.50**	155.50	3.00	2.52
MOR1495084/N*	**149.50**	166.30	8.40	12.70
MOR1496057/N	**149.60**	161.00	5.70	4.80
MOR1500025/N	**150.00**	155.00	2.50	5.68
MOR1500030/N	**150.00**	156.00	3.00	2.52
MOR1500035/N*	**150.00**	157.00	3.50	3.38
MOR1500040/N	**150.00**	158.00	4.00	2.52
MOR1500045/N*	**150.00**	159.00	4.50	8.30
MOR1500050/N	**150.00**	160.00	5.00	2.96
MOR1500053/N	**150.00**	160.60	5.30	3.89
MOR1500060/N	**150.00**	162.00	6.00	11.19
MOR1510030/N*	**151.00**	157.00	3.00	2.90
MOR1510035/N*	**151.00**	158.00	3.50	3.38
MOR1510040/N	**151.00**	159.00	4.00	2.95
MOR1510050/N*	**151.00**	161.00	5.00	3.60
MOR1516017/N*	**151.60**	155.00	1.70	7.62
MOR1520030/N*	**152.00**	158.00	3.00	5.73
MOR1520035/N	**152.00**	159.00	3.50	3.38

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1520040/N	**152.00**	160.00	4.00	2.95
MOR1520050/N	**152.00**	162.00	5.00	3.60
MOR1530030/N*	**153.00**	159.00	3.00	2.90
MOR1530035/N	**153.00**	160.00	3.50	3.38
MOR1530040/N*	**153.00**	161.00	4.00	2.95
MOR1530045/N*	**153.00**	162.00	4.50	8.45
MOR1530050/N*	**153.00**	163.00	5.00	3.60
MOR1530060/N*	**153.00**	165.00	6.00	11.39
MOR1540030/N	**154.00**	160.00	3.00	2.90
MOR1540035/N*	**154.00**	161.00	3.50	3.38
MOR1540040/N	**154.00**	162.00	4.00	2.95
MOR1540050/N	**154.00**	164.00	5.00	3.60
MOR1540060/N*	**154.00**	166.00	6.00	11.67
MOR1541084/N*	**154.10**	170.90	8.40	12.70
MOR1543057/N	**154.30**	165.70	5.70	5.03
MOR1545030/N*	**154.50**	160.50	3.00	2.90
MOR1545084/N*	**154.50**	171.30	8.40	12.70
MOR1548017/N*	**154.80**	158.20	1.70	7.62
MOR1550030/N	**155.00**	161.00	3.00	2.90
MOR1550035/N	**155.00**	162.00	3.50	3.38
MOR1550040/N	**155.00**	163.00	4.00	2.95
MOR1550045/N*	**155.00**	164.00	4.50	8.57
MOR1550050/N	**155.00**	165.00	5.00	3.60
MOR1550053/N*	**155.00**	165.60	5.30	O/R
MOR1550060/N*	**155.00**	167.00	6.00	11.78
MOR1550070/N*	**155.00**	169.00	7.00	5.87
MOR1550100/N*	**155.00**	175.00	10.00	20.09
MOR1550175/N*	**155.00**	190.00	17.50	O/R
MOR1555060/N*	**155.50**	167.50	6.00	9.24
MOR1556069/N*	**155.60**	169.40	6.90	O/R
MOR1560025/N*	**156.00**	161.00	2.50	5.05
MOR1560030/N*	**156.00**	162.00	3.00	2.90
MOR1560035/N*	**156.00**	163.00	3.50	3.38
MOR1560040/N	**156.00**	164.00	4.00	2.95
MOR1560050/N*	**156.00**	166.00	5.00	3.60
MOR1560060/N*	**156.00**	168.00	6.00	12.20
MOR1570030/N*	**157.00**	163.00	3.00	2.90
MOR1570035/N	**157.00**	164.00	3.50	3.38
MOR1570040/N	**157.00**	165.00	4.00	2.95
MOR1570045/N*	**157.00**	166.00	4.50	8.90
MOR1570050/N	**157.00**	167.00	5.00	3.60
MOR1570060/N*	**157.00**	169.00	6.00	12.44
MOR1580017/N*	**158.00**	161.40	1.70	8.16
MOR1580030/N*	**158.00**	164.00	3.00	2.90
MOR1580035/N	**158.00**	165.00	3.50	3.38
MOR1580040/N	**158.00**	166.00	4.00	2.95

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1580050/N	**158.00**	168.00	5.00	3.60
MOR1580060/N	**158.00**	170.00	6.00	12.65
MOR1590030/N*	**159.00**	165.00	3.00	2.90
MOR1590035/N*	**159.00**	166.00	3.50	3.38
MOR1590040/N*	**159.00**	167.00	4.00	2.95
MOR1590050/N*	**159.00**	169.00	5.00	3.60
MOR1590060/N*	**159.00**	171.00	6.00	12.75
MOR1591084/N*	**159.10**	175.90	8.40	12.70
MOR1593057/N	**159.30**	170.70	5.70	5.44
MOR1595030/N*	**159.50**	165.50	3.00	2.90
MOR1595069/N*	**159.50**	173.30	6.90	O/R
MOR1595084/N*	**159.50**	176.30	8.40	12.70
MOR1600030/N	**160.00**	166.00	3.00	2.90
MOR1600035/N	**160.00**	167.00	3.50	3.38
MOR1600040/N	**160.00**	168.00	4.00	2.95
MOR1600045/N*	**160.00**	169.00	4.50	9.22
MOR1600050/N	**160.00**	170.00	5.00	3.60
MOR1600053/N*	**160.00**	170.60	5.30	O/R
MOR1600060/N	**160.00**	172.00	6.00	4.12
MOR1610030/N*	**161.00**	167.00	3.00	3.18
MOR1610035/N*	**161.00**	168.00	3.50	3.38
MOR1610040/N*	**161.00**	169.00	4.00	3.41
MOR1610050/N*	**161.00**	171.00	5.00	3.97
MOR1611017/N*	**161.10**	164.50	1.70	8.16
MOR1613053/N*	**161.30**	171.90	5.30	O/R
MOR1619069/N*	**161.90**	175.70	6.90	O/R
MOR1620030/N*	**162.00**	168.00	3.00	3.18
MOR1620035/N	**162.00**	169.00	3.50	3.38
MOR1620040/N	**162.00**	170.00	4.00	3.41
MOR1620050/N*	**162.00**	172.00	5.00	3.97
MOR1620060/N*	**162.00**	174.00	6.00	13.24
MOR1630030/N	**163.00**	169.00	3.00	3.18
MOR1630035/N*	**163.00**	170.00	3.50	3.38
MOR1630040/N	**163.00**	171.00	4.00	3.41
MOR1630050/N*	**163.00**	173.00	5.00	3.97
MOR1640030/N	**164.00**	170.00	3.00	3.18
MOR1640035/N	**164.00**	171.00	3.50	3.38
MOR1640040/N*	**164.00**	172.00	4.00	3.41
MOR1640050/N*	**164.00**	174.00	5.00	3.97
MOR1641084/N	**164.10**	180.90	8.40	12.70
MOR1643017/N*	**164.30**	167.70	1.70	8.16
MOR1643057/N	**164.30**	175.70	5.70	5.87
MOR1645030/N	**164.50**	170.50	3.00	3.18
MOR1645084/N*	**164.50**	181.30	8.40	23.57
MOR1650020/N*	**165.00**	169.00	2.00	3.14
MOR1650025/N	**165.00**	170.00	2.50	3.14

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1650030/N	**165.00**	171.00	3.00	3.18
MOR1650035/N*	**165.00**	172.00	3.50	3.38
MOR1650040/N	**165.00**	173.00	4.00	3.41
MOR1650045/N*	**165.00**	174.00	4.50	9.79
MOR1650050/N	**165.00**	175.00	5.00	3.97
MOR1650053/N*	**165.00**	175.60	5.30	O/R
MOR1650060/N*	**165.00**	177.00	6.00	12.79
MOR1650080/N*	**165.00**	181.00	8.00	19.40
MOR1660030/N	**166.00**	172.00	3.00	3.18
MOR1660035/N*	**166.00**	173.00	3.50	3.38
MOR1660040/N*	**166.00**	174.00	4.00	3.97
MOR1660050/N*	**166.00**	176.00	5.00	4.73
MOR1660060/N*	**166.00**	178.00	6.00	13.83
MOR1667069/N	**166.70**	180.50	6.90	9.95
MOR1670025/N	**167.00**	172.00	2.50	10.67
MOR1670030/N	**167.00**	173.00	3.00	3.18
MOR1670035/N*	**167.00**	174.00	3.50	3.38
MOR1670040/N*	**167.00**	175.00	4.00	3.97
MOR1670050/N	**167.00**	177.00	5.00	4.73
MOR1675017/N*	**167.50**	170.90	1.70	8.16
MOR1677053/N	**167.70**	178.30	5.30	O/R
MOR1680030/N	**168.00**	174.00	3.00	3.18
MOR1680035/N*	**168.00**	175.00	3.50	3.38
MOR1680040/N*	**168.00**	176.00	4.00	3.97
MOR1680050/N*	**168.00**	178.00	5.00	4.73
MOR1683069/N	**168.30**	182.10	6.90	O/R
MOR1690030/N	**169.00**	175.00	3.00	3.18
MOR1690035/N*	**169.00**	176.00	3.50	3.38
MOR1690040/N*	**169.00**	177.00	4.00	3.97
MOR1690050/N*	**169.00**	179.00	5.00	4.73
MOR1690060/N	**169.00**	181.00	6.00	14.30
MOR1691084/N*	**169.10**	185.90	8.40	23.57
MOR1693057/N	**169.30**	180.70	5.70	6.31
MOR1695030/N*	**169.50**	175.50	3.00	3.18
MOR1695084/N*	**169.50**	186.30	8.40	23.57
MOR1700020/N*	**170.00**	174.00	2.00	3.14
MOR1700030/N	**170.00**	176.00	3.00	3.18
MOR1700035/N	**170.00**	177.00	3.50	3.38
MOR1700040/N	**170.00**	178.00	4.00	3.97
MOR1700050/N	**170.00**	180.00	5.00	4.73
MOR1700053/N*	**170.00**	180.60	5.30	O/R
MOR1700060/N	**170.00**	182.00	6.00	14.46
MOR1706017/N*	**170.60**	174.00	1.70	10.24
MOR1710030/N	**171.00**	177.00	3.00	3.97
MOR1710035/N	**171.00**	178.00	3.50	3.55
MOR1710040/N*	**171.00**	179.00	4.00	3.97

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1710050/N*	**171.00**	181.00	5.00	4.73
MOR1720030/N*	**172.00**	178.00	3.00	3.97
MOR1720035/N*	**172.00**	179.00	3.50	3.55
MOR1720040/N	**172.00**	180.00	4.00	3.97
MOR1720045/N	**172.00**	181.00	4.50	10.07
MOR1720050/N*	**172.00**	182.00	5.00	4.73
MOR1720060/N*	**172.00**	184.00	6.00	14.84
MOR1730030/N*	**173.00**	179.00	3.00	3.97
MOR1730035/N*	**173.00**	180.00	3.50	3.55
MOR1730040/N*	**173.00**	181.00	4.00	4.01
MOR1730050/N*	**173.00**	183.00	5.00	4.73
MOR1738017/N*	**173.80**	177.20	1.70	10.84
MOR1740030/N	**174.00**	180.00	3.00	3.97
MOR1740035/N*	**174.00**	181.00	3.50	3.55
MOR1740040/N*	**174.00**	182.00	4.00	4.01
MOR1740050/N*	**174.00**	184.00	5.00	4.88
MOR1740053/N*	**174.00**	184.60	5.30	O/R
MOR1741084/N	**174.10**	190.90	8.40	24.09
MOR1743057/N*	**174.30**	185.70	5.70	6.70
MOR1745030/N*	**174.50**	180.50	3.00	3.97
MOR1745084/N*	**174.50**	191.30	8.40	24.09
MOR1746069/N*	**174.60**	188.40	6.90	O/R
MOR1746070/N*	**174.60**	188.60	7.00	O/R
MOR1750025/N*	**175.00**	180.00	2.50	O/R
MOR1750030/N	**175.00**	181.00	3.00	3.97
MOR1750035/N*	**175.00**	182.00	3.50	3.55
MOR1750040/N	**175.00**	183.00	4.00	4.01
MOR1750050/N	**175.00**	185.00	5.00	4.88
MOR1750053/N*	**175.00**	185.60	5.30	O/R
MOR1750060/N*	**175.00**	187.00	6.00	15.26
MOR1750100/N*	**175.00**	195.00	10.00	16.21
MOR1760030/N	**176.00**	182.00	3.00	3.98
MOR1760035/N*	**176.00**	183.00	3.50	4.01
MOR1760040/N*	**176.00**	184.00	4.00	4.01
MOR1760050/N*	**176.00**	186.00	5.00	4.88
MOR1760060/N*	**176.00**	188.00	6.00	15.37
MOR1770030/N*	**177.00**	183.00	3.00	3.24
MOR1770035/N	**177.00**	184.00	3.50	4.01
MOR1770040/N*	**177.00**	185.00	4.00	4.01
MOR1770050/N*	**177.00**	187.00	5.00	4.88
MOR1770070/N	**177.00**	191.00	7.00	8.98
MOR1780030/N	**178.00**	184.00	3.00	3.98
MOR1780035/N*	**178.00**	185.00	3.50	4.01
MOR1780040/N*	**178.00**	186.00	4.00	4.04
MOR1780045/N*	**178.00**	187.00	4.50	10.58
MOR1780050/N*	**178.00**	188.00	5.00	4.88

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1790030/N*	**179.00**	185.00	3.00	3.98
MOR1790035/N*	**179.00**	186.00	3.50	4.01
MOR1790040/N*	**179.00**	187.00	4.00	4.04
MOR1790050/N*	**179.00**	189.00	5.00	4.88
MOR1791084/N*	**179.10**	195.90	8.40	27.30
MOR1793057/N	**179.30**	190.70	5.70	7.14
MOR1795030/N*	**179.50**	185.50	3.00	3.98
MOR1795084/N	**179.50**	196.30	8.40	27.33
MOR1800030/N	**180.00**	186.00	3.00	3.98
MOR1800035/N*	**180.00**	187.00	3.50	4.01
MOR1800040/N	**180.00**	188.00	4.00	4.04
MOR1800045/N*	**180.00**	189.00	4.50	11.13
MOR1800050/N	**180.00**	190.00	5.00	4.88
MOR1800053/N*	**180.00**	190.60	5.30	O/R
MOR1800060/N	**180.00**	192.00	6.00	15.52
MOR1810030/N*	**181.00**	187.00	3.00	3.98
MOR1810035/N*	**181.00**	188.00	3.50	4.80
MOR1810040/N*	**181.00**	189.00	4.00	4.94
MOR1810050/N*	**181.00**	191.00	5.00	5.37
MOR1810069/N*	**181.00**	194.80	6.90	O/R
MOR1820020/N	**182.00**	186.00	2.00	3.14
MOR1820030/N	**182.00**	188.00	3.00	3.98
MOR1820035/N*	**182.00**	189.00	3.50	4.80
MOR1820040/N	**182.00**	190.00	4.00	4.94
MOR1820050/N	**182.00**	192.00	5.00	5.37
MOR1820060/N*	**182.00**	194.00	6.00	15.80
MOR1830030/N*	**183.00**	189.00	3.00	3.98
MOR1830035/N*	**183.00**	190.00	3.50	4.80
MOR1830040/N*	**183.00**	191.00	4.00	4.94
MOR1830050/N*	**183.00**	193.00	5.00	5.37
MOR1840030/N	**184.00**	190.00	3.00	3.98
MOR1840035/N*	**184.00**	191.00	3.50	4.80
MOR1840040/N	**184.00**	192.00	4.00	4.94
MOR1840050/N*	**184.00**	194.00	5.00	5.37
MOR1840060/N*	**184.00**	196.00	6.00	16.07
MOR1841084/N	**184.10**	200.90	8.40	29.46
MOR1843050/N*	**184.30**	194.30	5.00	5.37
MOR1843057/N	**184.30**	195.70	5.70	7.56
MOR1845030/N*	**184.50**	190.50	3.00	3.98
MOR1845084/N*	**184.50**	201.30	8.40	29.46
MOR1848084/N*	**184.80**	201.60	8.40	29.46
MOR1850030/N	**185.00**	191.00	3.00	3.98
MOR1850035/N*	**185.00**	192.00	3.50	4.80
MOR1850040/N	**185.00**	193.00	4.00	4.94
MOR1850045/N*	**185.00**	194.00	4.50	12.06
MOR1850050/N	**185.00**	195.00	5.00	5.37

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1850053/N*	**185.00**	195.60	5.30	O/R
MOR1850060/N*	**185.00**	197.00	6.00	16.33
MOR1860030/N*	**186.00**	192.00	3.00	3.98
MOR1860035/N*	**186.00**	193.00	3.50	4.80
MOR1860040/N*	**186.00**	194.00	4.00	4.94
MOR1860045/N*	**186.00**	195.00	4.50	12.32
MOR1860050/N*	**186.00**	196.00	5.00	5.37
MOR1860060/N*	**186.00**	198.00	6.00	16.46
MOR1870030/N*	**187.00**	193.00	3.00	3.98
MOR1870035/N*	**187.00**	194.00	3.50	4.80
MOR1870040/N*	**187.00**	195.00	4.00	4.94
MOR1870050/N*	**187.00**	197.00	5.00	5.37
MOR1873069/N	**187.30**	201.10	6.90	5.90
MOR1880030/N*	**188.00**	194.00	3.00	3.98
MOR1880035/N*	**188.00**	195.00	3.50	4.80
MOR1880040/N	**188.00**	196.00	4.00	4.94
MOR1880050/N	**188.00**	198.00	5.00	5.37
MOR1880060/N*	**188.00**	200.00	6.00	16.81
MOR1890030/N*	**189.00**	195.00	3.00	3.98
MOR1890035/N*	**189.00**	196.00	3.50	4.80
MOR1890040/N	**189.00**	197.00	4.00	4.94
MOR1890050/N*	**189.00**	199.00	5.00	5.37
MOR1891084/N*	**189.10**	205.90	8.40	29.46
MOR1893057/N	**189.30**	200.70	5.70	7.56
MOR1895030/N	**189.50**	195.50	3.00	3.98
MOR1895045/N*	**189.50**	198.50	4.50	13.66
MOR1895084/N*	**189.50**	206.30	8.40	29.46
MOR1900025/N*	**190.00**	195.00	2.50	O/R
MOR1900030/N	**190.00**	196.00	3.00	3.98
MOR1900035/N*	**190.00**	197.00	3.50	4.80
MOR1900040/N	**190.00**	198.00	4.00	4.94
MOR1900050/N	**190.00**	200.00	5.00	5.37
MOR1900053/N*	**190.00**	200.60	5.30	O/R
MOR1900060/N	**190.00**	202.00	6.00	17.14
MOR1903057/N*	**190.30**	201.70	5.70	7.77
MOR1910030/N*	**191.00**	197.00	3.00	3.98
MOR1910035/N*	**191.00**	198.00	3.50	4.80
MOR1910040/N	**191.00**	199.00	4.00	4.94
MOR1910050/N*	**191.00**	201.00	5.00	5.37
MOR1912060/N*	**191.20**	203.20	6.00	17.31
MOR1920030/N	**192.00**	198.00	3.00	3.98
MOR1920035/N*	**192.00**	199.00	3.50	4.80
MOR1920040/N	**192.00**	200.00	4.00	4.94
MOR1920045/N*	**192.00**	201.00	4.50	13.83
MOR1920050/N*	**192.00**	202.00	5.00	5.37
MOR1930030/N*	**193.00**	199.00	3.00	3.98

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1930035/N	**193.00**	200.00	3.50	4.80
MOR1930040/N*	**193.00**	201.00	4.00	4.94
MOR1930050/N*	**193.00**	203.00	5.00	5.37
MOR1930060/N*	**193.00**	205.00	6.00	17.46
MOR1937069/N*	**193.70**	207.50	6.90	O/R
MOR1940030/N*	**194.00**	200.00	3.00	3.98
MOR1940035/N*	**194.00**	201.00	3.50	4.80
MOR1940040/N*	**194.00**	202.00	4.00	4.94
MOR1940050/N*	**194.00**	204.00	5.00	5.37
MOR1941084/N*	**194.10**	210.90	8.40	29.46
MOR1943057/N*	**194.30**	205.70	5.70	7.98
MOR1945030/N*	**194.50**	200.50	3.00	3.98
MOR1945084/N*	**194.50**	211.30	8.40	30.44
MOR1950025/N	**195.00**	200.00	2.50	17.43
MOR1950030/N	**195.00**	201.00	3.00	3.98
MOR1950035/N	**195.00**	202.00	3.50	4.80
MOR1950040/N	**195.00**	203.00	4.00	4.94
MOR1950050/N	**195.00**	205.00	5.00	5.37
MOR1950053/N*	**195.00**	205.60	5.30	O/R
MOR1950060/N	**195.00**	207.00	6.00	17.68
MOR1960030/N*	**196.00**	202.00	3.00	3.98
MOR1960035/N*	**196.00**	203.00	3.50	4.80
MOR1960040/N*	**196.00**	204.00	4.00	4.96
MOR1960050/N*	**196.00**	206.00	5.00	5.56
MOR1960060/N*	**196.00**	208.00	6.00	18.01
MOR1970030/N*	**197.00**	203.00	3.00	3.98
MOR1970035/N*	**197.00**	204.00	3.50	4.80
MOR1970040/N*	**197.00**	205.00	4.00	4.96
MOR1970050/N*	**197.00**	207.00	5.00	5.56
MOR1980030/N*	**198.00**	204.00	3.00	3.98
MOR1980035/N*	**198.00**	205.00	3.50	4.80
MOR1980040/N*	**198.00**	206.00	4.00	4.96
MOR1980050/N*	**198.00**	208.00	5.00	5.56
MOR1980060/N*	**198.00**	210.00	6.00	18.40
MOR1990030/N*	**199.00**	205.00	3.00	3.98
MOR1990035/N*	**199.00**	206.00	3.50	4.80
MOR1990040/N*	**199.00**	207.00	4.00	4.96
MOR1990050/N*	**199.00**	209.00	5.00	5.56
MOR1991070/N*	**199.10**	213.10	7.00	O/R
MOR1991084/N	**199.10**	215.90	8.40	30.53
MOR1993057/N	**199.30**	210.70	5.70	8.33
MOR1994053/N	**199.40**	210.00	5.30	9.01
MOR1995030/N*	**199.50**	205.50	3.00	3.98
MOR1995084/N*	**199.50**	216.30	8.40	30.87
MOR2000020/N	**200.00**	204.00	2.00	7.31
MOR2000030/N	**200.00**	206.00	3.00	3.98

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2000035/N	**200.00**	207.00	3.50	4.80
MOR2000040/N	**200.00**	208.00	4.00	4.96
MOR2000050/N	**200.00**	210.00	5.00	5.56
MOR2000053/N*	**200.00**	210.60	5.30	O/R
MOR2000060/N	**200.00**	212.00	6.00	18.74
MOR2000069/N*	**200.00**	213.80	6.90	O/R
MOR2000080/N	**200.00**	216.00	8.00	20.40
MOR2000100/N	**200.00**	220.00	10.00	32.70
MOR2010030/N*	**201.00**	207.00	3.00	3.98
MOR2010035/N*	**201.00**	208.00	3.50	4.94
MOR2010040/N*	**201.00**	209.00	4.00	8.49
MOR2010050/N*	**201.00**	211.00	5.00	6.50
MOR2010060/N*	**201.00**	213.00	6.00	18.89
MOR2020030/N	**202.00**	208.00	3.00	3.98
MOR2020035/N*	**202.00**	209.00	3.50	4.94
MOR2020040/N*	**202.00**	210.00	4.00	8.49
MOR2020050/N*	**202.00**	212.00	5.00	6.50
MOR2020060/N*	**202.00**	214.00	6.00	19.08
MOR2030030/N	**203.00**	209.00	3.00	3.98
MOR2030035/N*	**203.00**	210.00	3.50	6.34
MOR2030040/N*	**203.00**	211.00	4.00	8.49
MOR2030050/N*	**203.00**	213.00	5.00	6.50
MOR2030060/N	**203.00**	215.00	6.00	19.28
MOR2035060/N*	**203.50**	215.50	6.00	19.43
MOR2040030/N*	**204.00**	210.00	3.00	3.98
MOR2040035/N*	**204.00**	211.00	3.50	6.34
MOR2040040/N	**204.00**	212.00	4.00	8.49
MOR2040050/N*	**204.00**	214.00	5.00	6.50
MOR2040060/N*	**204.00**	216.00	6.00	14.25
MOR2041084/N*	**204.10**	220.90	8.40	31.05
MOR2043057/N	**204.30**	215.70	5.70	8.81
MOR2045030/N*	**204.50**	210.50	3.00	3.98
MOR2045084/N*	**204.50**	221.30	8.40	31.05
MOR2050030/N	**205.00**	211.00	3.00	3.98
MOR2050035/N*	**205.00**	212.00	3.50	6.34
MOR2050040/N	**205.00**	213.00	4.00	8.49
MOR2050050/N	**205.00**	215.00	5.00	6.50
MOR2050060/N*	**205.00**	217.00	6.00	19.67
MOR2060030/N*	**206.00**	212.00	3.00	3.98
MOR2060035/N*	**206.00**	213.00	3.50	6.34
MOR2060040/N*	**206.00**	214.00	4.00	8.49
MOR2060050/N*	**206.00**	216.00	5.00	7.26
MOR2060070/N	**206.00**	220.00	7.00	19.34
MOR2070030/N*	**207.00**	213.00	3.00	3.98
MOR2070035/N*	**207.00**	214.00	3.50	6.34
MOR2070040/N*	**207.00**	215.00	4.00	8.49

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2070050/N*	**207.00**	217.00	5.00	7.26
MOR2080030/N*	**208.00**	214.00	3.00	3.98
MOR2080035/N*	**208.00**	215.00	3.50	6.34
MOR2080040/N*	**208.00**	216.00	4.00	8.49
MOR2080045/N*	**208.00**	217.00	4.50	15.52
MOR2080050/N*	**208.00**	218.00	5.00	7.26
MOR2080060/N*	**208.00**	220.00	6.00	19.82
MOR2085084/N*	**208.50**	225.30	8.40	31.05
MOR2089069/N*	**208.90**	222.70	6.90	O/R
MOR2090030/N*	**209.00**	215.00	3.00	3.98
MOR2090035/N*	**209.00**	216.00	3.50	6.34
MOR2090040/N*	**209.00**	217.00	4.00	8.49
MOR2090050/N*	**209.00**	219.00	5.00	7.26
MOR2090070/N*	**209.00**	223.00	7.00	O/R
MOR2091084/N*	**209.10**	225.90	8.40	32.14
MOR2093057/N	**209.30**	220.70	5.70	9.10
MOR2094084/N*	**209.40**	226.20	8.40	32.14
MOR2095030/N*	**209.50**	215.50	3.00	3.98
MOR2095084/N	**209.50**	226.30	8.40	32.14
MOR2100030/N	**210.00**	216.00	3.00	3.98
MOR2100035/N*	**210.00**	217.00	3.50	6.34
MOR2100040/N	**210.00**	218.00	4.00	8.49
MOR2100050/N	**210.00**	220.00	5.00	7.26
MOR2100060/N	**210.00**	222.00	6.00	20.08
MOR2100070/N	**210.00**	224.00	7.00	17.05
MOR2100080/N*	**210.00**	226.00	8.00	20.66
MOR2110030/N*	**211.00**	217.00	3.00	3.98
MOR2110035/N*	**211.00**	218.00	3.50	7.62
MOR2110040/N*	**211.00**	219.00	4.00	8.49
MOR2110050/N*	**211.00**	221.00	5.00	7.81
MOR2120030/N*	**212.00**	218.00	3.00	3.98
MOR2120035/N*	**212.00**	219.00	3.50	8.13
MOR2120040/N*	**212.00**	220.00	4.00	8.49
MOR2120050/N*	**212.00**	222.00	5.00	7.81
MOR2120060/N*	**212.00**	224.00	6.00	21.23
MOR2120070/N*	**212.00**	226.00	7.00	19.82
MOR2130030/N*	**213.00**	219.00	3.00	3.98
MOR2130035/N*	**213.00**	220.00	3.50	9.16
MOR2130040/N*	**213.00**	221.00	4.00	8.49
MOR2130050/N*	**213.00**	223.00	5.00	7.81
MOR2140030/N*	**214.00**	220.00	3.00	3.98
MOR2140035/N*	**214.00**	221.00	3.50	9.60
MOR2140040/N*	**214.00**	222.00	4.00	8.49
MOR2140050/N*	**214.00**	224.00	5.00	7.81
MOR2143057/N*	**214.30**	225.70	5.70	14.01
MOR2145084/N*	**214.50**	231.30	8.40	32.42

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2150030/N	**215.00**	221.00	3.00	7.36
MOR2150035/N*	**215.00**	222.00	3.50	10.05
MOR2150040/N*	**215.00**	223.00	4.00	8.49
MOR2150045/N*	**215.00**	224.00	4.50	15.91
MOR2150050/N	**215.00**	225.00	5.00	7.81
MOR2150060/N	**215.00**	227.00	6.00	20.89
MOR2153057/N	**215.30**	226.70	5.70	9.41
MOR2160030/N*	**216.00**	222.00	3.00	3.98
MOR2160035/N*	**216.00**	223.00	3.50	10.81
MOR2160040/N	**216.00**	224.00	4.00	8.49
MOR2160050/N*	**216.00**	226.00	5.00	7.81
MOR2160060/N*	**216.00**	228.00	6.00	21.00
MOR2170030/N*	**217.00**	223.00	3.00	3.98
MOR2170035/N*	**217.00**	224.00	3.50	11.09
MOR2170040/N*	**217.00**	225.00	4.00	8.49
MOR2170050/N*	**217.00**	227.00	5.00	7.81
MOR2170060/N*	**217.00**	229.00	6.00	21.09
MOR2180030/N*	**218.00**	224.00	3.00	3.98
MOR2180035/N*	**218.00**	225.00	3.50	11.52
MOR2180040/N*	**218.00**	226.00	4.00	8.49
MOR2180050/N*	**218.00**	228.00	5.00	7.81
MOR2180060/N*	**218.00**	230.00	6.00	21.22
MOR2180070/N*	**218.00**	232.00	7.00	20.29
MOR2185045/N*	**218.50**	227.50	4.50	16.33
MOR2190030/N*	**219.00**	225.00	3.00	3.98
MOR2190035/N*	**219.00**	226.00	3.50	12.93
MOR2190040/N*	**219.00**	227.00	4.00	8.49
MOR2190050/N*	**219.00**	229.00	5.00	7.81
MOR2191084/N*	**219.10**	235.90	8.40	32.67
MOR2193057/N	**219.30**	230.70	5.70	9.56
MOR2195030/N*	**219.50**	225.50	3.00	3.98
MOR2195084/N*	**219.50**	236.30	8.40	32.82
MOR2200020/N*	**220.00**	224.00	2.00	7.18
MOR2200030/N	**220.00**	226.00	3.00	3.98
MOR2200035/N*	**220.00**	227.00	3.50	13.60
MOR2200040/N	**220.00**	228.00	4.00	8.49
MOR2200050/N*	**220.00**	230.00	5.00	7.81
MOR2200060/N	**220.00**	232.00	6.00	21.43
MOR2210030/N*	**221.00**	227.00	3.00	3.98
MOR2210035/N*	**221.00**	228.00	3.50	13.66
MOR2210040/N*	**221.00**	229.00	4.00	8.49
MOR2210050/N*	**221.00**	231.00	5.00	8.22
MOR2210060/N*	**221.00**	233.00	6.00	21.52
MOR2216069/N*	**221.60**	235.40	6.90	O/R
MOR2220030/N*	**222.00**	228.00	3.00	3.98
MOR2220035/N*	**222.00**	229.00	3.50	13.71

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2220040/N*	**222.00**	230.00	4.00	8.49
MOR2220050/N*	**222.00**	232.00	5.00	8.22
MOR2230030/N*	**223.00**	229.00	3.00	3.98
MOR2230035/N*	**223.00**	230.00	3.50	13.83
MOR2230040/N*	**223.00**	231.00	4.00	8.49
MOR2230050/N*	**223.00**	233.00	5.00	8.27
MOR2240030/N	**224.00**	230.00	3.00	3.98
MOR2240035/N*	**224.00**	231.00	3.50	13.94
MOR2240040/N*	**224.00**	232.00	4.00	8.49
MOR2240050/N*	**224.00**	234.00	5.00	8.27
MOR2240070/N*	**224.00**	238.00	7.00	20.79
MOR2245084/N*	**224.50**	241.30	8.40	33.10
MOR2250030/N	**225.00**	231.00	3.00	3.98
MOR2250035/N	**225.00**	232.00	3.50	14.04
MOR2250040/N	**225.00**	233.00	4.00	8.49
MOR2250045/N*	**225.00**	234.00	4.50	17.00
MOR2250050/N*	**225.00**	235.00	5.00	8.27
MOR2250060/N*	**225.00**	237.00	6.00	21.94
MOR2260030/N*	**226.00**	232.00	3.00	8.69
MOR2260035/N*	**226.00**	233.00	3.50	14.10
MOR2260040/N*	**226.00**	234.00	4.00	8.49
MOR2260050/N*	**226.00**	236.00	5.00	8.68
MOR2260060/N*	**226.00**	238.00	6.00	22.06
MOR2270030/N*	**227.00**	233.00	3.00	8.69
MOR2270035/N*	**227.00**	234.00	3.50	14.14
MOR2270040/N*	**227.00**	235.00	4.00	8.49
MOR2270045/N*	**227.00**	236.00	4.50	17.07
MOR2270050/N*	**227.00**	237.00	5.00	8.68
MOR2280030/N*	**228.00**	234.00	3.00	8.69
MOR2280035/N*	**228.00**	235.00	3.50	14.19
MOR2280040/N*	**228.00**	236.00	4.00	8.49
MOR2280050/N*	**228.00**	238.00	5.00	8.68
MOR2290030/N*	**229.00**	235.00	3.00	8.69
MOR2290035/N*	**229.00**	236.00	3.50	14.36
MOR2290040/N*	**229.00**	237.00	4.00	8.49
MOR2290050/N*	**229.00**	239.00	5.00	8.68
MOR2290060/N*	**229.00**	241.00	6.00	22.40
MOR2291084/N*	**229.10**	245.90	8.40	33.45
MOR2293057/N*	**229.30**	240.70	5.70	9.84
MOR2295030/N*	**229.50**	235.50	3.00	8.69
MOR2295084/N	**229.50**	246.30	8.40	34.64
MOR2300030/N	**230.00**	236.00	3.00	8.69
MOR2300035/N*	**230.00**	237.00	3.50	14.52
MOR2300040/N*	**230.00**	238.00	4.00	8.49
MOR2300050/N	**230.00**	240.00	5.00	8.68
MOR2300060/N	**230.00**	242.00	6.00	22.48

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2300070/N*	**230.00**	244.00	7.00	21.03
MOR2300080/N*	**230.00**	246.00	8.00	O/R
MOR2310030/N*	**231.00**	237.00	3.00	8.69
MOR2310035/N*	**231.00**	238.00	3.50	14.73
MOR2310040/N*	**231.00**	239.00	4.00	8.49
MOR2310050/N*	**231.00**	241.00	5.00	8.68
MOR2320030/N*	**232.00**	238.00	3.00	8.69
MOR2320035/N*	**232.00**	239.00	3.50	14.91
MOR2320040/N*	**232.00**	240.00	4.00	8.49
MOR2320050/N*	**232.00**	242.00	5.00	8.68
MOR2330030/N*	**233.00**	239.00	3.00	8.69
MOR2330035/N*	**233.00**	240.00	3.50	15.11
MOR2330040/N*	**233.00**	241.00	4.00	8.49
MOR2330050/N*	**233.00**	243.00	5.00	8.68
MOR2340030/N*	**234.00**	240.00	3.00	8.69
MOR2340035/N	**234.00**	241.00	3.50	15.26
MOR2340040/N*	**234.00**	242.00	4.00	8.49
MOR2340050/N*	**234.00**	244.00	5.00	8.68
MOR2341084/N*	**234.10**	250.90	8.40	35.34
MOR2343057/N	**234.30**	245.70	5.70	10.05
MOR2343069/N*	**234.30**	248.10	6.90	O/R
MOR2345084/N*	**234.50**	251.30	8.40	36.01
MOR2350030/N	**235.00**	241.00	3.00	8.69
MOR2350035/N*	**235.00**	242.00	3.50	15.37
MOR2350040/N	**235.00**	243.00	4.00	8.49
MOR2350050/N*	**235.00**	245.00	5.00	8.68
MOR2350060/N*	**235.00**	247.00	6.00	22.77
MOR2350070/N*	**235.00**	249.00	7.00	18.02
MOR2360030/N*	**236.00**	242.00	3.00	8.69
MOR2360035/N*	**236.00**	243.00	3.50	15.37
MOR2360040/N*	**236.00**	244.00	4.00	8.49
MOR2360050/N*	**236.00**	246.00	5.00	8.86
MOR2360060/N*	**236.00**	248.00	6.00	22.82
MOR2360070/N*	**236.00**	250.00	7.00	21.24
MOR2370030/N*	**237.00**	243.00	3.00	8.69
MOR2370035/N*	**237.00**	244.00	3.50	15.49
MOR2370040/N*	**237.00**	245.00	4.00	8.49
MOR2370050/N*	**237.00**	247.00	5.00	8.86
MOR2370060/N*	**237.00**	249.00	6.00	22.87
MOR2375060/N*	**237.50**	249.50	6.00	22.92
MOR2380030/N*	**238.00**	244.00	3.00	8.69
MOR2380035/N*	**238.00**	245.00	3.50	15.49
MOR2380040/N*	**238.00**	246.00	4.00	8.49
MOR2380050/N	**238.00**	248.00	5.00	8.86
MOR2380060/N	**238.00**	250.00	6.00	22.98
MOR2390030/N*	**239.00**	245.00	3.00	8.69

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2390035/N*	**239.00**	246.00	3.50	15.52
MOR2390040/N*	**239.00**	247.00	4.00	8.49
MOR2390050/N*	**239.00**	249.00	5.00	8.86
MOR2391084/N*	**239.10**	255.90	8.40	36.41
MOR2393057/N	**239.30**	250.70	5.70	10.09
MOR2395030/N*	**239.50**	245.50	3.00	8.69
MOR2395084/N*	**239.50**	256.30	8.40	36.63
MOR2400030/N	**240.00**	246.00	3.00	8.69
MOR2400035/N*	**240.00**	247.00	3.50	15.52
MOR2400040/N*	**240.00**	248.00	4.00	8.49
MOR2400050/N	**240.00**	250.00	5.00	14.69
MOR2400060/N*	**240.00**	252.00	6.00	23.02
MOR2410030/N*	**241.00**	247.00	3.00	9.10
MOR2410035/N*	**241.00**	248.00	3.50	15.57
MOR2410040/N*	**241.00**	249.00	4.00	8.54
MOR2410050/N*	**241.00**	251.00	5.00	8.92
MOR2420030/N*	**242.00**	248.00	3.00	9.10
MOR2420035/N*	**242.00**	249.00	3.50	15.57
MOR2420040/N*	**242.00**	250.00	4.00	8.54
MOR2420050/N*	**242.00**	252.00	5.00	8.92
MOR2420060/N*	**242.00**	254.00	6.00	23.13
MOR2430030/N*	**243.00**	249.00	3.00	9.10
MOR2430035/N*	**243.00**	250.00	3.50	15.70
MOR2430040/N	**243.00**	251.00	4.00	8.72
MOR2430050/N*	**243.00**	253.00	5.00	8.92
MOR2430070/N*	**243.00**	257.00	7.00	21.48
MOR2440030/N	**244.00**	250.00	3.00	9.10
MOR2440035/N*	**244.00**	251.00	3.50	15.70
MOR2440040/N*	**244.00**	252.00	4.00	8.72
MOR2440050/N*	**244.00**	254.00	5.00	8.92
MOR2440060/N*	**244.00**	256.00	6.00	23.30
MOR2445084/N*	**244.50**	261.30	8.40	37.32
MOR2450030/N*	**245.00**	251.00	3.00	9.10
MOR2450035/N*	**245.00**	252.00	3.50	15.74
MOR2450040/N*	**245.00**	253.00	4.00	8.72
MOR2450050/N	**245.00**	255.00	5.00	8.92
MOR2460030/N*	**246.00**	252.00	3.00	9.10
MOR2460035/N*	**246.00**	253.00	3.50	15.80
MOR2460040/N	**246.00**	254.00	4.00	8.72
MOR2460050/N*	**246.00**	256.00	5.00	9.12
MOR2470030/N*	**247.00**	253.00	3.00	9.10
MOR2470035/N*	**247.00**	254.00	3.50	15.80
MOR2470040/N*	**247.00**	255.00	4.00	8.72
MOR2470050/N*	**247.00**	257.00	5.00	9.12
MOR2470060/N*	**247.00**	259.00	6.00	23.41
MOR2470069/N*	**247.00**	260.80	6.90	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2480030/N*	**248.00**	254.00	3.00	9.10
MOR2480035/N*	**248.00**	255.00	3.50	15.85
MOR2480040/N*	**248.00**	256.00	4.00	8.72
MOR2480050/N*	**248.00**	258.00	5.00	9.12
MOR2490030/N	**249.00**	255.00	3.00	9.10
MOR2490035/N*	**249.00**	256.00	3.50	15.91
MOR2490040/N*	**249.00**	257.00	4.00	8.72
MOR2490050/N*	**249.00**	259.00	5.00	9.12
MOR2490060/N*	**249.00**	261.00	6.00	23.50
MOR2491084/N*	**249.10**	265.90	8.40	37.50
MOR2493057/N*	**249.30**	260.70	5.70	10.58
MOR2495030/N*	**249.50**	255.50	3.00	9.10
MOR2495084/N*	**249.50**	266.30	8.40	55.63
MOR2500030/N	**250.00**	256.00	3.00	9.10
MOR2500035/N*	**250.00**	257.00	3.50	15.91
MOR2500040/N	**250.00**	258.00	4.00	8.72
MOR2500045/N*	**250.00**	259.00	4.50	19.28
MOR2500050/N	**250.00**	260.00	5.00	9.12
MOR2500060/N*	**250.00**	262.00	6.00	23.57
MOR2500070/N*	**250.00**	264.00	7.00	21.72
MOR2510035/N*	**251.00**	258.00	3.50	16.03
MOR2510040/N*	**251.00**	259.00	4.00	9.19
MOR2510050/N*	**251.00**	261.00	5.00	9.31
MOR2520035/N*	**252.00**	259.00	3.50	16.03
MOR2520040/N*	**252.00**	260.00	4.00	9.19
MOR2520050/N*	**252.00**	262.00	5.00	9.31
MOR2530035/N*	**253.00**	260.00	3.50	16.07
MOR2530040/N*	**253.00**	261.00	4.00	9.19
MOR2530050/N*	**253.00**	263.00	5.00	9.31
MOR2540030/N*	**254.00**	260.00	3.00	O/R
MOR2540035/N*	**254.00**	261.00	3.50	16.07
MOR2540040/N*	**254.00**	262.00	4.00	9.19
MOR2540050/N*	**254.00**	264.00	5.00	9.31
MOR2545084/N*	**254.50**	271.30	8.40	12.11
MOR2550030/N	**255.00**	261.00	3.00	15.01
MOR2550035/N*	**255.00**	262.00	3.50	16.12
MOR2550040/N*	**255.00**	263.00	4.00	9.19
MOR2550050/N*	**255.00**	265.00	5.00	9.31
MOR2560035/N*	**256.00**	263.00	3.50	16.12
MOR2560040/N*	**256.00**	264.00	4.00	9.19
MOR2560050/N*	**256.00**	266.00	5.00	9.75
MOR2570035/N*	**257.00**	264.00	3.50	16.12
MOR2570040/N*	**257.00**	265.00	4.00	9.19
MOR2570050/N*	**257.00**	267.00	5.00	9.75
MOR2580035/N*	**258.00**	265.00	3.50	16.18
MOR2580040/N*	**258.00**	266.00	4.00	9.19

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2580050/N*	**258.00**	268.00	5.00	9.75
MOR2580060/N*	**258.00**	270.00	6.00	23.88
MOR2580070/N*	**258.00**	272.00	7.00	22.19
MOR2590035/N*	**259.00**	266.00	3.50	16.18
MOR2590040/N*	**259.00**	267.00	4.00	9.19
MOR2590050/N*	**259.00**	269.00	5.00	9.75
MOR2590060/N*	**259.00**	271.00	6.00	24.00
MOR2593057/N*	**259.30**	270.70	5.70	10.84
MOR2595084/N*	**259.50**	276.30	8.40	12.65
MOR2597069/N*	**259.70**	273.50	6.90	O/R
MOR2600025/N*	**260.00**	265.00	2.50	O/R
MOR2600030/N	**260.00**	266.00	3.00	14.52
MOR2600035/N	**260.00**	267.00	3.50	16.22
MOR2600040/N*	**260.00**	268.00	4.00	9.19
MOR2600050/N*	**260.00**	270.00	5.00	9.75
MOR2600060/N	**260.00**	272.00	6.00	24.09
MOR2600070/N*	**260.00**	274.00	7.00	23.25
MOR2610035/N*	**261.00**	268.00	3.50	16.22
MOR2610040/N*	**261.00**	269.00	4.00	9.19
MOR2610050/N*	**261.00**	271.00	5.00	9.75
MOR2620035/N*	**262.00**	269.00	3.50	16.29
MOR2620040/N*	**262.00**	270.00	4.00	9.19
MOR2620050/N*	**262.00**	272.00	5.00	9.75
MOR2620060/N*	**262.00**	274.00	6.00	24.22
MOR2630035/N*	**263.00**	270.00	3.50	16.29
MOR2630040/N*	**263.00**	271.00	4.00	9.19
MOR2630050/N*	**263.00**	273.00	5.00	9.75
MOR2640035/N*	**264.00**	271.00	3.50	16.33
MOR2640040/N*	**264.00**	272.00	4.00	9.19
MOR2640050/N*	**264.00**	274.00	5.00	9.75
MOR2645084/N*	**264.50**	281.30	8.40	12.65
MOR2650035/N*	**265.00**	272.00	3.50	16.33
MOR2650040/N	**265.00**	273.00	4.00	9.19
MOR2650050/N*	**265.00**	275.00	5.00	9.75
MOR2650060/N*	**265.00**	277.00	6.00	24.37
MOR2650070/N	**265.00**	279.00	7.00	22.67
MOR2650080/N*	**265.00**	281.00	8.00	29.18
MOR2660035/N*	**266.00**	273.00	3.50	16.33
MOR2660040/N*	**266.00**	274.00	4.00	9.95
MOR2660050/N*	**266.00**	276.00	5.00	10.47
MOR2660060/N*	**266.00**	278.00	6.00	24.42
MOR2670035/N*	**267.00**	274.00	3.50	16.48
MOR2670040/N*	**267.00**	275.00	4.00	9.95
MOR2670045/N*	**267.00**	276.00	4.50	19.97
MOR2670050/N*	**267.00**	277.00	5.00	10.47
MOR2680035/N*	**268.00**	275.00	3.50	16.72

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2680040/N*	**268.00**	276.00	4.00	9.95
MOR2680050/N*	**268.00**	278.00	5.00	10.47
MOR2690030/N	**269.00**	275.00	3.00	13.48
MOR2690035/N*	**269.00**	276.00	3.50	16.92
MOR2690040/N*	**269.00**	277.00	4.00	9.95
MOR2690050/N*	**269.00**	279.00	5.00	10.47
MOR2693057/N*	**269.30**	280.70	5.70	11.10
MOR2695060/N*	**269.50**	281.50	6.00	24.49
MOR2695084/N*	**269.50**	286.30	8.40	38.68
MOR2700035/N*	**270.00**	277.00	3.50	17.14
MOR2700040/N*	**270.00**	278.00	4.00	9.95
MOR2700050/N*	**270.00**	280.00	5.00	10.47
MOR2700060/N*	**270.00**	282.00	6.00	24.63
MOR2700070/N*	**270.00**	284.00	7.00	O/R
MOR2710030/N*	**271.00**	277.00	3.00	O/R
MOR2710035/N*	**271.00**	278.00	3.50	17.41
MOR2710040/N*	**271.00**	279.00	4.00	10.48
MOR2710050/N*	**271.00**	281.00	5.00	10.47
MOR2720035/N*	**272.00**	279.00	3.50	17.41
MOR2720040/N*	**272.00**	280.00	4.00	10.48
MOR2720050/N*	**272.00**	282.00	5.00	10.47
MOR2720070/N*	**272.00**	286.00	7.00	23.13
MOR2724069/N*	**272.40**	286.20	6.90	O/R
MOR2730035/N*	**273.00**	280.00	3.50	17.68
MOR2730040/N*	**273.00**	281.00	4.00	10.48
MOR2730050/N*	**273.00**	283.00	5.00	10.47
MOR2740030/N	**274.00**	280.00	3.00	10.22
MOR2740035/N*	**274.00**	281.00	3.50	17.85
MOR2740040/N	**274.00**	282.00	4.00	10.48
MOR2740050/N*	**274.00**	284.00	5.00	10.47
MOR2745084/N	**274.50**	291.30	8.40	13.19
MOR2750035/N*	**275.00**	282.00	3.50	18.01
MOR2750040/N*	**275.00**	283.00	4.00	10.48
MOR2750050/N*	**275.00**	285.00	5.00	10.47
MOR2760035/N*	**276.00**	283.00	3.50	18.21
MOR2760040/N	**276.00**	284.00	4.00	10.48
MOR2760050/N*	**276.00**	286.00	5.00	11.60
MOR2770035/N*	**277.00**	284.00	3.50	18.47
MOR2770040/N*	**277.00**	285.00	4.00	10.48
MOR2770050/N*	**277.00**	287.00	5.00	11.60
MOR2780035/N*	**278.00**	285.00	3.50	18.74
MOR2780040/N*	**278.00**	286.00	4.00	10.48
MOR2780050/N*	**278.00**	288.00	5.00	11.60
MOR2780060/N*	**278.00**	290.00	6.00	25.44
MOR2790035/N*	**279.00**	286.00	3.50	19.01
MOR2790040/N*	**279.00**	287.00	4.00	10.48

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2790050/N*	**279.00**	289.00	5.00	11.60
MOR2793057/N*	**279.30**	290.70	5.70	11.87
MOR2795084/N*	**279.50**	296.30	8.40	13.19
MOR2800030/N	**280.00**	286.00	3.00	9.59
MOR2800035/N*	**280.00**	287.00	3.50	19.28
MOR2800040/N*	**280.00**	288.00	4.00	10.48
MOR2800045/N*	**280.00**	289.00	4.50	21.43
MOR2800050/N*	**280.00**	290.00	5.00	11.60
MOR2800060/N	**280.00**	292.00	6.00	25.69
MOR2800070/N*	**280.00**	294.00	7.00	23.61
MOR2800080/N*	**280.00**	296.00	8.00	39.35
MOR2800100/N*	**280.00**	300.00	10.00	44.64
MOR2810035/N*	**281.00**	288.00	3.50	19.54
MOR2810040/N*	**281.00**	289.00	4.00	10.48
MOR2810050/N*	**281.00**	291.00	5.00	11.60
MOR2820035/N*	**282.00**	289.00	3.50	19.82
MOR2820040/N*	**282.00**	290.00	4.00	10.48
MOR2820050/N*	**282.00**	292.00	5.00	11.60
MOR2830035/N*	**283.00**	290.00	3.50	20.08
MOR2830040/N*	**283.00**	291.00	4.00	10.48
MOR2830050/N*	**283.00**	293.00	5.00	11.60
MOR2840035/N*	**284.00**	291.00	3.50	20.35
MOR2840040/N*	**284.00**	292.00	4.00	10.48
MOR2840050/N*	**284.00**	294.00	5.00	11.60
MOR2840060/N*	**284.00**	296.00	6.00	25.91
MOR2845084/N*	**284.50**	301.30	8.40	41.96
MOR2850030/N*	**285.00**	291.00	3.00	O/R
MOR2850035/N*	**285.00**	292.00	3.50	20.63
MOR2850040/N*	**285.00**	293.00	4.00	10.48
MOR2850050/N*	**285.00**	295.00	5.00	11.60
MOR2850060/N*	**285.00**	297.00	6.00	25.97
MOR2851069/N	**285.10**	298.90	6.90	23.65
MOR2860035/N*	**286.00**	293.00	3.50	20.89
MOR2860040/N*	**286.00**	294.00	4.00	19.01
MOR2860050/N*	**286.00**	296.00	5.00	11.60
MOR2870035/N*	**287.00**	294.00	3.50	21.05
MOR2870040/N	**287.00**	295.00	4.00	26.09
MOR2870050/N*	**287.00**	297.00	5.00	11.60
MOR2880035/N*	**288.00**	295.00	3.50	21.26
MOR2880040/N*	**288.00**	296.00	4.00	26.09
MOR2880050/N*	**288.00**	298.00	5.00	11.60
MOR2880060/N	**288.00**	300.00	6.00	26.16
MOR2889035/N*	**288.90**	295.90	3.50	21.38
MOR2890035/N*	**289.00**	296.00	3.50	16.84
MOR2890040/N*	**289.00**	297.00	4.00	26.09
MOR2890050/N*	**289.00**	299.00	5.00	11.60

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2893057/N	**289.30**	300.70	5.70	12.35
MOR2895084/N	**289.50**	306.30	8.40	14.30
MOR2900030/N	**290.00**	296.00	3.00	13.48
MOR2900035/N*	**290.00**	297.00	3.50	21.67
MOR2900040/N*	**290.00**	298.00	4.00	26.09
MOR2900050/N	**290.00**	300.00	5.00	11.60
MOR2900060/N*	**290.00**	302.00	6.00	26.23
MOR2900070/N*	**290.00**	304.00	7.00	24.56
MOR2910035/N*	**291.00**	298.00	3.50	21.94
MOR2910040/N*	**291.00**	299.00	4.00	26.09
MOR2910050/N*	**291.00**	301.00	5.00	11.74
MOR2920035/N*	**292.00**	299.00	3.50	22.13
MOR2920040/N*	**292.00**	300.00	4.00	26.09
MOR2920050/N*	**292.00**	302.00	5.00	11.74
MOR2930035/N*	**293.00**	300.00	3.50	22.33
MOR2930040/N*	**293.00**	301.00	4.00	26.09
MOR2930050/N*	**293.00**	303.00	5.00	11.74
MOR2930060/N*	**293.00**	305.00	6.00	43.46
MOR2940035/N*	**294.00**	301.00	3.50	22.48
MOR2940040/N*	**294.00**	302.00	4.00	26.09
MOR2940050/N*	**294.00**	304.00	5.00	11.74
MOR2940060/N*	**294.00**	306.00	6.00	26.69
MOR2945084/N*	**294.50**	311.30	8.40	14.30
MOR2950035/N*	**295.00**	302.00	3.50	22.67
MOR2950040/N*	**295.00**	303.00	4.00	26.09
MOR2950050/N*	**295.00**	305.00	5.00	11.74
MOR2950060/N*	**295.00**	307.00	6.00	26.78
MOR2960035/N*	**296.00**	303.00	3.50	22.87
MOR2960040/N*	**296.00**	304.00	4.00	26.09
MOR2960050/N*	**296.00**	306.00	5.00	11.74
MOR2970035/N*	**297.00**	304.00	3.50	23.02
MOR2970040/N*	**297.00**	305.00	4.00	26.09
MOR2970050/N*	**297.00**	307.00	5.00	11.74
MOR2978069/N*	**297.80**	311.60	6.90	O/R
MOR2980035/N*	**298.00**	305.00	3.50	23.20
MOR2980040/N*	**298.00**	306.00	4.00	26.09
MOR2980050/N*	**298.00**	308.00	5.00	11.74
MOR2990035/N*	**299.00**	306.00	3.50	23.41
MOR2990040/N*	**299.00**	307.00	4.00	26.09
MOR2990050/N*	**299.00**	309.00	5.00	11.74
MOR2993057/N	**299.30**	310.70	5.70	13.13
MOR2995084/N*	**299.50**	316.30	8.40	86.39
MOR3000030/N	**300.00**	306.00	3.00	13.60
MOR3000035/N*	**300.00**	307.00	3.50	23.57
MOR3000040/N*	**300.00**	308.00	4.00	26.09
MOR3000050/N*	**300.00**	310.00	5.00	11.74

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3000060/N*	**300.00**	312.00	6.00	28.39
MOR3000070/N	**300.00**	314.00	7.00	27.86
MOR3000100/N*	**300.00**	320.00	10.00	O/R
MOR3010035/N*	**301.00**	308.00	3.50	O/R
MOR3010040/N*	**301.00**	309.00	4.00	O/R
MOR3010050/N*	**301.00**	311.00	5.00	O/R
MOR3010060/N*	**301.00**	313.00	6.00	O/R
MOR3020035/N*	**302.00**	309.00	3.50	O/R
MOR3020040/N*	**302.00**	310.00	4.00	O/R
MOR3020050/N*	**302.00**	312.00	5.00	O/R
MOR3030035/N*	**303.00**	310.00	3.50	O/R
MOR3030040/N*	**303.00**	311.00	4.00	O/R
MOR3030050/N*	**303.00**	313.00	5.00	O/R
MOR3040030/N*	**304.00**	310.00	3.00	O/R
MOR3040035/N*	**304.00**	311.00	3.50	O/R
MOR3040040/N*	**304.00**	312.00	4.00	O/R
MOR3040050/N*	**304.00**	314.00	5.00	O/R
MOR3050035/N*	**305.00**	312.00	3.50	O/R
MOR3050040/N*	**305.00**	313.00	4.00	28.54
MOR3050050/N*	**305.00**	315.00	5.00	O/R
MOR3050060/N*	**305.00**	317.00	6.00	O/R
MOR3060035/N*	**306.00**	313.00	3.50	O/R
MOR3060040/N*	**306.00**	314.00	4.00	O/R
MOR3060050/N*	**306.00**	316.00	5.00	O/R
MOR3070030/N*	**307.00**	313.00	3.00	O/R
MOR3070035/N*	**307.00**	314.00	3.50	O/R
MOR3070040/N*	**307.00**	315.00	4.00	O/R
MOR3070050/N*	**307.00**	317.00	5.00	O/R
MOR3070070/N*	**307.00**	321.00	7.00	O/R
MOR3080035/N*	**308.00**	315.00	3.50	O/R
MOR3080040/N*	**308.00**	316.00	4.00	O/R
MOR3080050/N*	**308.00**	318.00	5.00	O/R
MOR3080060/N*	**308.00**	320.00	6.00	28.82
MOR3090035/N*	**309.00**	316.00	3.50	O/R
MOR3090040/N*	**309.00**	317.00	4.00	O/R
MOR3090050/N*	**309.00**	319.00	5.00	O/R
MOR3095084/N	**309.50**	326.30	8.40	51.17
MOR3100030/N*	**310.00**	316.00	3.00	23.31
MOR3100035/N*	**310.00**	317.00	3.50	O/R
MOR3100040/N*	**310.00**	318.00	4.00	30.23
MOR3100050/N*	**310.00**	320.00	5.00	14.33
MOR3100060/N*	**310.00**	322.00	6.00	O/R
MOR3100070/N*	**310.00**	324.00	7.00	24.65
MOR3100080/N*	**310.00**	326.00	8.00	O/R
MOR3100084/N*	**310.00**	316.80	8.40	40.69
MOR3105069/N*	**310.50**	324.30	6.90	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3110035/N*	**311.00**	318.00	3.50	O/R
MOR3110040/N*	**311.00**	319.00	4.00	O/R
MOR3110050/N*	**311.00**	321.00	5.00	O/R
MOR3110060/N*	**311.00**	323.00	6.00	O/R
MOR3120035/N*	**312.00**	319.00	3.50	O/R
MOR3120040/N*	**312.00**	320.00	4.00	O/R
MOR3120050/N*	**312.00**	322.00	5.00	O/R
MOR3130035/N*	**313.00**	320.00	3.50	O/R
MOR3130040/N*	**313.00**	321.00	4.00	O/R
MOR3130050/N*	**313.00**	323.00	5.00	O/R
MOR3140030/N	**314.00**	320.00	3.00	25.83
MOR3140035/N*	**314.00**	321.00	3.50	O/R
MOR3140040/N*	**314.00**	322.00	4.00	O/R
MOR3140050/N*	**314.00**	324.00	5.00	O/R
MOR3145084/N*	**314.50**	331.30	8.40	15.41
MOR3150035/N	**315.00**	322.00	3.50	O/R
MOR3150040/N	**315.00**	323.00	4.00	28.60
MOR3150045/N*	**315.00**	324.00	4.50	28.59
MOR3150050/N*	**315.00**	325.00	5.00	O/R
MOR3150060/N*	**315.00**	327.00	6.00	O/R
MOR3150070/N*	**315.00**	329.00	7.00	O/R
MOR3160035/N*	**316.00**	323.00	3.50	O/R
MOR3160040/N*	**316.00**	324.00	4.00	O/R
MOR3160050/N*	**316.00**	326.00	5.00	O/R
MOR3169035/N*	**316.90**	323.90	3.50	13.85
MOR3170035/N*	**317.00**	324.00	3.50	O/R
MOR3170040/N*	**317.00**	325.00	4.00	O/R
MOR3170050/N*	**317.00**	327.00	5.00	O/R
MOR3180035/N*	**318.00**	325.00	3.50	O/R
MOR3180040/N*	**318.00**	326.00	4.00	O/R
MOR3180050/N*	**318.00**	328.00	5.00	O/R
MOR3190035/N*	**319.00**	326.00	3.50	O/R
MOR3190040/N*	**319.00**	327.00	4.00	O/R
MOR3190050/N*	**319.00**	329.00	5.00	O/R
MOR3193057/N	**319.30**	330.70	5.70	25.58
MOR3195084/N*	**319.50**	336.30	8.40	21.40
MOR3200030/N*	**320.00**	326.00	3.00	O/R
MOR3200035/N*	**320.00**	327.00	3.50	O/R
MOR3200040/N*	**320.00**	328.00	4.00	O/R
MOR3200050/N*	**320.00**	330.00	5.00	12.15
MOR3200060/N	**320.00**	332.00	6.00	O/R
MOR3200080/N*	**320.00**	336.00	8.00	33.36
MOR3210035/N*	**321.00**	328.00	3.50	O/R
MOR3210040/N*	**321.00**	329.00	4.00	O/R
MOR3210050/N*	**321.00**	331.00	5.00	O/R
MOR3220035/N*	**322.00**	329.00	3.50	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3220040/N*	**322.00**	330.00	4.00	O/R
MOR3220050/N*	**322.00**	332.00	5.00	O/R
MOR3230035/N*	**323.00**	330.00	3.50	O/R
MOR3230040/N*	**323.00**	331.00	4.00	O/R
MOR3230050/N*	**323.00**	333.00	5.00	O/R
MOR3232069/N*	**323.20**	337.00	6.90	O/R
MOR3240035/N*	**324.00**	331.00	3.50	O/R
MOR3240040/N*	**324.00**	332.00	4.00	O/R
MOR3240050/N*	**324.00**	334.00	5.00	O/R
MOR3240060/N*	**324.00**	336.00	6.00	O/R
MOR3250030/N*	**325.00**	331.00	3.00	35.23
MOR3250035/N*	**325.00**	332.00	3.50	O/R
MOR3250040/N*	**325.00**	333.00	4.00	O/R
MOR3250050/N*	**325.00**	335.00	5.00	O/R
MOR3250060/N*	**325.00**	337.00	6.00	O/R
MOR3250070/N	**325.00**	339.00	7.00	17.33
MOR3260035/N*	**326.00**	333.00	3.50	O/R
MOR3260040/N*	**326.00**	334.00	4.00	O/R
MOR3260050/N*	**326.00**	336.00	5.00	O/R
MOR3270035/N*	**327.00**	334.00	3.50	O/R
MOR3270040/N*	**327.00**	335.00	4.00	O/R
MOR3270050/N*	**327.00**	337.00	5.00	O/R
MOR3280035/N*	**328.00**	335.00	3.50	O/R
MOR3280040/N*	**328.00**	336.00	4.00	O/R
MOR3280050/N*	**328.00**	338.00	5.00	O/R
MOR3290035/N*	**329.00**	336.00	3.50	O/R
MOR3290040/N*	**329.00**	337.00	4.00	O/R
MOR3290050/N*	**329.00**	339.00	5.00	O/R
MOR3293057/N	**329.30**	340.70	5.70	33.16
MOR3300030/N*	**330.00**	336.00	3.00	O/R
MOR3300035/N*	**330.00**	337.00	3.50	O/R
MOR3300040/N	**330.00**	338.00	4.00	O/R
MOR3300050/N*	**330.00**	340.00	5.00	21.40
MOR3300060/N*	**330.00**	342.00	6.00	O/R
MOR3300080/N*	**330.00**	346.00	8.00	O/R
MOR3300084/N	**330.00**	346.80	8.40	58.64
MOR3310035/N*	**331.00**	338.00	3.50	O/R
MOR3310040/N*	**331.00**	339.00	4.00	O/R
MOR3310050/N*	**331.00**	341.00	5.00	O/R
MOR3320035/N*	**332.00**	339.00	3.50	O/R
MOR3320040/N*	**332.00**	340.00	4.00	O/R
MOR3320050/N*	**332.00**	342.00	5.00	O/R
MOR3330035/N*	**333.00**	340.00	3.50	O/R
MOR3330040/N*	**333.00**	341.00	4.00	O/R
MOR3330050/N*	**333.00**	343.00	5.00	O/R
MOR3330060/N*	**333.00**	345.00	6.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3340035/N*	**334.00**	341.00	3.50	O/R
MOR3340040/N*	**334.00**	342.00	4.00	O/R
MOR3340050/N*	**334.00**	344.00	5.00	O/R
MOR3345084/N*	**334.50**	351.30	8.40	16.51
MOR3350030/N	**335.00**	341.00	3.00	7.82
MOR3350035/N*	**335.00**	342.00	3.50	O/R
MOR3350040/N*	**335.00**	343.00	4.00	O/R
MOR3350050/N*	**335.00**	345.00	5.00	O/R
MOR3350060/N*	**335.00**	347.00	6.00	43.60
MOR3350070/N	**335.00**	349.00	7.00	O/R
MOR3359069/N*	**335.90**	349.70	6.90	O/R
MOR3360035/N*	**336.00**	343.00	3.50	O/R
MOR3360040/N*	**336.00**	344.00	4.00	O/R
MOR3360050/N*	**336.00**	346.00	5.00	O/R
MOR3370035/N*	**337.00**	344.00	3.50	O/R
MOR3370040/N*	**337.00**	345.00	4.00	O/R
MOR3370050/N*	**337.00**	347.00	5.00	O/R
MOR3380035/N*	**338.00**	345.00	3.50	O/R
MOR3380040/N*	**338.00**	346.00	4.00	O/R
MOR3380050/N*	**338.00**	348.00	5.00	O/R
MOR3380060/N*	**338.00**	350.00	6.00	O/R
MOR3390035/N*	**339.00**	346.00	3.50	O/R
MOR3390040/N*	**339.00**	347.00	4.00	O/R
MOR3390050/N*	**339.00**	349.00	5.00	O/R
MOR3393057/N	**339.30**	350.70	5.70	34.65
MOR3395084/N*	**339.50**	356.30	8.40	17.06
MOR3400035/N*	**340.00**	347.00	3.50	O/R
MOR3400040/N*	**340.00**	348.00	4.00	O/R
MOR3400050/N*	**340.00**	350.00	5.00	17.77
MOR3400060/N*	**340.00**	352.00	6.00	O/R
MOR3410035/N*	**341.00**	348.00	3.50	O/R
MOR3410040/N*	**341.00**	349.00	4.00	O/R
MOR3410050/N*	**341.00**	351.00	5.00	O/R
MOR3420035/N*	**342.00**	349.00	3.50	8.87
MOR3420040/N*	**342.00**	350.00	4.00	O/R
MOR3420050/N*	**342.00**	352.00	5.00	O/R
MOR3420053/N*	**342.00**	352.66	5.30	31.65
MOR3430035/N*	**343.00**	350.00	3.50	O/R
MOR3430040/N*	**343.00**	351.00	4.00	O/R
MOR3430050/N*	**343.00**	353.00	5.00	O/R
MOR3440035/N*	**344.00**	351.00	3.50	O/R
MOR3440040/N*	**344.00**	352.00	4.00	O/R
MOR3440050/N*	**344.00**	354.00	5.00	O/R
MOR3450035/N*	**345.00**	352.00	3.50	O/R
MOR3450040/N*	**345.00**	353.00	4.00	O/R
MOR3450050/N*	**345.00**	355.00	5.00	25.99

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3450060/N	**345.00**	357.00	6.00	43.24
MOR3450070/N*	**345.00**	359.00	7.00	O/R
MOR3460035/N*	**346.00**	353.00	3.50	O/R
MOR3460040/N*	**346.00**	354.00	4.00	O/R
MOR3460050/N*	**346.00**	356.00	5.00	O/R
MOR3470035/N*	**347.00**	354.00	3.50	O/R
MOR3470040/N*	**347.00**	355.00	4.00	O/R
MOR3470050/N*	**347.00**	357.00	5.00	O/R
MOR3480035/N*	**348.00**	355.00	3.50	O/R
MOR3480040/N*	**348.00**	356.00	4.00	O/R
MOR3480050/N*	**348.00**	358.00	5.00	O/R
MOR3480060/N*	**348.00**	360.00	6.00	O/R
MOR3490035/N*	**349.00**	356.00	3.50	O/R
MOR3490040/N*	**349.00**	357.00	4.00	O/R
MOR3490050/N*	**349.00**	359.00	5.00	O/R
MOR3493057/N	**349.30**	360.70	5.70	51.12
MOR3500035/N*	**350.00**	357.00	3.50	O/R
MOR3500040/N*	**350.00**	358.00	4.00	O/R
MOR3500050/N*	**350.00**	360.00	5.00	O/R
MOR3500060/N*	**350.00**	362.00	6.00	O/R
MOR3510035/N*	**351.00**	358.00	3.50	17.50
MOR3510040/N*	**351.00**	359.00	4.00	O/R
MOR3510050/N*	**351.00**	361.00	5.00	O/R
MOR3520035/N*	**352.00**	359.00	3.50	O/R
MOR3520040/N*	**352.00**	360.00	4.00	O/R
MOR3520050/N*	**352.00**	362.00	5.00	O/R
MOR3530035/N*	**353.00**	360.00	3.50	O/R
MOR3530040/N*	**353.00**	361.00	4.00	O/R
MOR3530050/N*	**353.00**	363.00	5.00	O/R
MOR3540035/N*	**354.00**	361.00	3.50	O/R
MOR3540040/N*	**354.00**	362.00	4.00	O/R
MOR3540050/N*	**354.00**	364.00	5.00	O/R
MOR3545084/N*	**354.50**	371.30	8.40	17.60
MOR3550035/N*	**355.00**	362.00	3.50	O/R
MOR3550040/N*	**355.00**	363.00	4.00	O/R
MOR3550050/N*	**355.00**	365.00	5.00	O/R
MOR3550060/N*	**355.00**	367.00	6.00	O/R
MOR3550070/N*	**355.00**	369.00	7.00	O/R
MOR3550200/N*	**355.00**	395.00	20.00	O/R
MOR3560035/N*	**356.00**	363.00	3.50	O/R
MOR3560040/N*	**356.00**	364.00	4.00	O/R
MOR3560050/N*	**356.00**	366.00	5.00	O/R
MOR3570035/N*	**357.00**	364.00	3.50	O/R
MOR3570040/N*	**357.00**	365.00	4.00	O/R
MOR3570050/N*	**357.00**	367.00	5.00	O/R
MOR3580035/N*	**358.00**	365.00	3.50	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3580040/N*	**358.00**	366.00	4.00	O/R
MOR3580050/N*	**358.00**	368.00	5.00	O/R
MOR3580060/N*	**358.00**	370.00	6.00	O/R
MOR3590035/N*	**359.00**	366.00	3.50	O/R
MOR3590040/N*	**359.00**	367.00	4.00	O/R
MOR3590050/N*	**359.00**	369.00	5.00	O/R
MOR3593057/N	**359.30**	370.70	5.70	28.69
MOR3595084/N*	**359.50**	376.30	8.40	18.71
MOR3600035/N*	**360.00**	367.00	3.50	O/R
MOR3600040/N*	**360.00**	368.00	4.00	O/R
MOR3600050/N*	**360.00**	370.00	5.00	O/R
MOR3610035/N*	**361.00**	368.00	3.50	O/R
MOR3610040/N	**361.00**	369.00	4.00	O/R
MOR3610050/N*	**361.00**	371.00	5.00	O/R
MOR3610060/N*	**361.00**	373.00	6.00	57.53
MOR3620035/N*	**362.00**	369.00	3.50	O/R
MOR3620040/N*	**362.00**	370.00	4.00	O/R
MOR3620050/N*	**362.00**	372.00	5.00	O/R
MOR3630035/N*	**363.00**	370.00	3.50	O/R
MOR3630040/N*	**363.00**	371.00	4.00	O/R
MOR3630050/N*	**363.00**	373.00	5.00	O/R
MOR3640035/N*	**364.00**	371.00	3.50	O/R
MOR3640040/N*	**364.00**	372.00	4.00	O/R
MOR3640050/N*	**364.00**	374.00	5.00	O/R
MOR3650035/N*	**365.00**	372.00	3.50	O/R
MOR3650040/N*	**365.00**	373.00	4.00	O/R
MOR3650050/N*	**365.00**	375.00	5.00	38.01
MOR3650060/N	**365.00**	377.00	6.00	O/R
MOR3650070/N	**365.00**	379.00	7.00	O/R
MOR3660035/N*	**366.00**	373.00	3.50	O/R
MOR3660040/N*	**366.00**	374.00	4.00	O/R
MOR3660050/N*	**366.00**	376.00	5.00	O/R
MOR3660060/N*	**366.00**	378.00	6.00	O/R
MOR3670035/N*	**367.00**	374.00	3.50	32.79
MOR3670040/N*	**367.00**	375.00	4.00	O/R
MOR3670050/N*	**367.00**	377.00	5.00	O/R
MOR3680035/N	**368.00**	375.00	3.50	33.29
MOR3680040/N*	**368.00**	376.00	4.00	O/R
MOR3680050/N*	**368.00**	378.00	5.00	O/R
MOR3680060/N*	**368.00**	380.00	6.00	35.68
MOR3690035/N*	**369.00**	376.00	3.50	O/R
MOR3690040/N*	**369.00**	377.00	4.00	O/R
MOR3690050/N*	**369.00**	379.00	5.00	O/R
MOR3700030/N*	**370.00**	376.00	3.00	O/R
MOR3700035/N*	**370.00**	377.00	3.50	O/R
MOR3700040/N*	**370.00**	378.00	4.00	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3700050/N*	**370.00**	380.00	5.00	O/R
MOR3700060/N*	**370.00**	382.00	6.00	O/R
MOR3703057/N*	**370.30**	381.70	5.70	O/R
MOR3710035/N*	**371.00**	378.00	3.50	O/R
MOR3710040/N*	**371.00**	379.00	4.00	O/R
MOR3710050/N*	**371.00**	381.00	5.00	O/R
MOR3720035/N*	**372.00**	379.00	3.50	O/R
MOR3720040/N*	**372.00**	380.00	4.00	O/R
MOR3720050/N*	**372.00**	382.00	5.00	O/R
MOR3730035/N*	**373.00**	380.00	3.50	O/R
MOR3730040/N*	**373.00**	381.00	4.00	O/R
MOR3730050/N*	**373.00**	383.00	5.00	O/R
MOR3740035/N*	**374.00**	381.00	3.50	O/R
MOR3740040/N*	**374.00**	382.00	4.00	O/R
MOR3740050/N*	**374.00**	384.00	5.00	O/R
MOR3745084/N*	**374.50**	391.30	8.40	18.71
MOR3750035/N*	**375.00**	382.00	3.50	O/R
MOR3750040/N*	**375.00**	383.00	4.00	O/R
MOR3750050/N*	**375.00**	385.00	5.00	O/R
MOR3750060/N*	**375.00**	387.00	6.00	O/R
MOR3750070/N*	**375.00**	389.00	7.00	O/R
MOR3760035/N*	**376.00**	383.00	3.50	O/R
MOR3760040/N*	**376.00**	384.00	4.00	O/R
MOR3760050/N*	**376.00**	386.00	5.00	O/R
MOR3760060/N*	**376.00**	388.00	6.00	O/R
MOR3770035/N*	**377.00**	384.00	3.50	O/R
MOR3770040/N*	**377.00**	385.00	4.00	O/R
MOR3770050/N*	**377.00**	387.00	5.00	O/R
MOR3780035/N*	**378.00**	385.00	3.50	O/R
MOR3780040/N*	**378.00**	386.00	4.00	O/R
MOR3780050/N*	**378.00**	388.00	5.00	O/R
MOR3790035/N*	**379.00**	386.00	3.50	O/R
MOR3790040/N*	**379.00**	387.00	4.00	O/R
MOR3790050/N*	**379.00**	389.00	5.00	O/R
MOR3793057/N	**379.30**	390.70	5.70	35.63
MOR3800030/N	**380.00**	386.00	3.00	35.83
MOR3800035/N*	**380.00**	387.00	3.50	O/R
MOR3800040/N*	**380.00**	388.00	4.00	O/R
MOR3800050/N*	**380.00**	390.00	5.00	O/R
MOR3800060/N*	**380.00**	392.00	6.00	O/R
MOR3810035/N*	**381.00**	388.00	3.50	O/R
MOR3810040/N*	**381.00**	389.00	4.00	O/R
MOR3810050/N*	**381.00**	391.00	5.00	O/R
MOR3820035/N*	**382.00**	389.00	3.50	O/R
MOR3820040/N*	**382.00**	390.00	4.00	O/R
MOR3820050/N*	**382.00**	392.00	5.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3830035/N*	**383.00**	390.00	3.50	O/R
MOR3830040/N*	**383.00**	391.00	4.00	O/R
MOR3830050/N*	**383.00**	393.00	5.00	O/R
MOR3840035/N*	**384.00**	391.00	3.50	O/R
MOR3840040/N*	**384.00**	392.00	4.00	O/R
MOR3840050/N*	**384.00**	394.00	5.00	O/R
MOR3845084/N*	**384.50**	401.30	8.40	38.81
MOR3850035/N*	**385.00**	392.00	3.50	O/R
MOR3850040/N*	**385.00**	393.00	4.00	O/R
MOR3850050/N*	**385.00**	395.00	5.00	O/R
MOR3850060/N*	**385.00**	397.00	6.00	O/R
MOR3860035/N*	**386.00**	393.00	3.50	O/R
MOR3860040/N*	**386.00**	394.00	4.00	O/R
MOR3860050/N*	**386.00**	396.00	5.00	O/R
MOR3860060/N*	**386.00**	398.00	6.00	O/R
MOR3870035/N*	**387.00**	394.00	3.50	O/R
MOR3870040/N*	**387.00**	395.00	4.00	O/R
MOR3870050/N*	**387.00**	397.00	5.00	O/R
MOR3870070/N	**387.00**	401.00	7.00	O/R
MOR3880035/N*	**388.00**	395.00	3.50	O/R
MOR3880040/N*	**388.00**	396.00	4.00	O/R
MOR3880050/N*	**388.00**	398.00	5.00	O/R
MOR3880060/N*	**388.00**	400.00	6.00	O/R
MOR3890035/N*	**389.00**	396.00	3.50	O/R
MOR3890040/N*	**389.00**	397.00	4.00	O/R
MOR3890050/N*	**389.00**	399.00	5.00	O/R
MOR3890060/N*	**389.00**	401.00	6.00	O/R
MOR3895084/N	**389.50**	406.30	8.40	43.60
MOR3900030/N*	**390.00**	396.00	3.00	O/R
MOR3900035/N*	**390.00**	397.00	3.50	O/R
MOR3900040/N*	**390.00**	398.00	4.00	O/R
MOR3900050/N*	**390.00**	400.00	5.00	O/R
MOR3900060/N*	**390.00**	402.00	6.00	O/R
MOR3910035/N*	**391.00**	398.00	3.50	O/R
MOR3910040/N*	**391.00**	399.00	4.00	O/R
MOR3910050/N*	**391.00**	401.00	5.00	O/R
MOR3920035/N*	**392.00**	399.00	3.50	O/R
MOR3920040/N*	**392.00**	400.00	4.00	O/R
MOR3920050/N*	**392.00**	402.00	5.00	O/R
MOR3920060/N*	**392.00**	404.00	6.00	O/R
MOR3930035/N*	**393.00**	400.00	3.50	O/R
MOR3930040/N*	**393.00**	401.00	4.00	O/R
MOR3930050/N*	**393.00**	403.00	5.00	O/R
MOR3930070/N*	**393.00**	407.00	7.00	O/R
MOR3940035/N*	**394.00**	401.00	3.50	O/R
MOR3940040/N*	**394.00**	402.00	4.00	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3940050/N*	**394.00**	404.00	5.00	O/R
MOR3940060/N*	**394.00**	406.00	6.00	O/R
MOR3950035/N*	**395.00**	402.00	3.50	O/R
MOR3950040/N	**395.00**	403.00	4.00	O/R
MOR3950050/N*	**395.00**	405.00	5.00	30.25
MOR3950060/N*	**395.00**	407.00	6.00	O/R
MOR3960035/N*	**396.00**	403.00	3.50	O/R
MOR3960040/N*	**396.00**	404.00	4.00	O/R
MOR3960050/N*	**396.00**	406.00	5.00	O/R
MOR3970035/N*	**397.00**	404.00	3.50	O/R
MOR3970040/N*	**397.00**	405.00	4.00	O/R
MOR3970050/N*	**397.00**	407.00	5.00	O/R
MOR3980035/N*	**398.00**	405.00	3.50	O/R
MOR3980040/N*	**398.00**	406.00	4.00	O/R
MOR3980050/N*	**398.00**	408.00	5.00	O/R
MOR3980060/N*	**398.00**	410.00	6.00	O/R
MOR3990035/N*	**399.00**	406.00	3.50	O/R
MOR3990040/N*	**399.00**	407.00	4.00	O/R
MOR3990050/N*	**399.00**	409.00	5.00	O/R
MOR3993057/N*	**399.30**	410.70	5.70	41.20
MOR3995084/N*	**399.50**	416.30	8.40	42.60
MOR4000035/N*	**400.00**	407.00	3.50	O/R
MOR4000040/N*	**400.00**	408.00	4.00	O/R
MOR4000050/N*	**400.00**	410.00	5.00	45.45
MOR4000060/N*	**400.00**	412.00	6.00	O/R
MOR4000070/N*	**400.00**	414.00	7.00	O/R
MOR4000080/N*	**400.00**	416.00	8.00	O/R
MOR4010035/N*	**401.00**	408.00	3.50	O/R
MOR4010040/N*	**401.00**	409.00	4.00	O/R
MOR4020035/N*	**402.00**	409.00	3.50	O/R
MOR4020040/N*	**402.00**	410.00	4.00	O/R
MOR4030035/N*	**403.00**	410.00	3.50	O/R
MOR4030040/N*	**403.00**	411.00	4.00	O/R
MOR4040035/N*	**404.00**	411.00	3.50	O/R
MOR4040040/N*	**404.00**	412.00	4.00	O/R
MOR4050035/N*	**405.00**	412.00	3.50	O/R
MOR4050040/N*	**405.00**	413.00	4.00	O/R
MOR4050070/N*	**405.00**	419.00	7.00	O/R
MOR4052070/N*	**405.20**	419.20	7.00	O/R
MOR4060035/N*	**406.00**	413.00	3.50	O/R
MOR4060040/N*	**406.00**	414.00	4.00	O/R
MOR4070035/N*	**407.00**	414.00	3.50	O/R
MOR4070040/N*	**407.00**	415.00	4.00	O/R
MOR4080035/N*	**408.00**	415.00	3.50	O/R
MOR4080040/N*	**408.00**	416.00	4.00	O/R
MOR4090035/N*	**409.00**	416.00	3.50	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR4090040/N*	**409.00**	417.00	4.00	O/R
MOR4095084/N*	**409.50**	426.30	8.40	90.35
MOR4100030/N*	**410.00**	416.00	3.00	34.66
MOR4100035/N*	**410.00**	417.00	3.50	O/R
MOR4100040/N*	**410.00**	418.00	4.00	O/R
MOR4110035/N*	**411.00**	418.00	3.50	O/R
MOR4110040/N*	**411.00**	419.00	4.00	O/R
MOR4120035/N*	**412.00**	419.00	3.50	O/R
MOR4120040/N*	**412.00**	420.00	4.00	O/R
MOR4120070/N*	**412.00**	426.00	7.00	O/R
MOR4130035/N*	**413.00**	420.00	3.50	O/R
MOR4130040/N*	**413.00**	421.00	4.00	O/R
MOR4140035/N*	**414.00**	421.00	3.50	O/R
MOR4140040/N*	**414.00**	422.00	4.00	O/R
MOR4150035/N*	**415.00**	422.00	3.50	O/R
MOR4150040/N*	**415.00**	423.00	4.00	O/R
MOR4150060/N*	**415.00**	427.00	6.00	O/R
MOR4160035/N*	**416.00**	423.00	3.50	O/R
MOR4160040/N*	**416.00**	424.00	4.00	O/R
MOR4170035/N*	**417.00**	424.00	3.50	O/R
MOR4170040/N*	**417.00**	425.00	4.00	O/R
MOR4180035/N*	**418.00**	425.00	3.50	O/R
MOR4180040/N*	**418.00**	426.00	4.00	O/R
MOR4190035/N*	**419.00**	426.00	3.50	O/R
MOR4190040/N*	**419.00**	427.00	4.00	O/R
MOR4193057/N	**419.30**	430.70	5.70	O/R
MOR4200035/N*	**420.00**	427.00	3.50	O/R
MOR4200040/N*	**420.00**	428.00	4.00	O/R
MOR4200100/N	**420.00**	440.00	10.00	51.98
MOR4210035/N*	**421.00**	428.00	3.50	O/R
MOR4210040/N*	**421.00**	429.00	4.00	O/R
MOR4220035/N*	**422.00**	429.00	3.50	O/R
MOR4220040/N*	**422.00**	430.00	4.00	O/R
MOR4220060/N*	**422.00**	434.00	6.00	O/R
MOR4230035/N*	**423.00**	430.00	3.50	O/R
MOR4230040/N*	**423.00**	431.00	4.00	O/R
MOR4240035/N*	**424.00**	431.00	3.50	O/R
MOR4240040/N*	**424.00**	432.00	4.00	O/R
MOR4250035/N*	**425.00**	432.00	3.50	O/R
MOR4250040/N*	**425.00**	433.00	4.00	O/R
MOR4250070/N*	**425.00**	439.00	7.00	O/R
MOR4260035/N*	**426.00**	433.00	3.50	O/R
MOR4260040/N*	**426.00**	434.00	4.00	O/R
MOR4270035/N*	**427.00**	434.00	3.50	O/R
MOR4270040/N*	**427.00**	435.00	4.00	O/R
MOR4270050/N*	**427.00**	437.00	5.00	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR4280035/N*	**428.00**	435.00	3.50	O/R
MOR4280040/N*	**428.00**	436.00	4.00	O/R
MOR4290035/N*	**429.00**	436.00	3.50	O/R
MOR4290040/N*	**429.00**	437.00	4.00	O/R
MOR4290050/N*	**429.00**	439.00	5.00	O/R
MOR4290060/N*	**429.00**	441.00	6.00	O/R
MOR4300035/N*	**430.00**	437.00	3.50	O/R
MOR4300040/N*	**430.00**	438.00	4.00	O/R
MOR4310035/N*	**431.00**	438.00	3.50	O/R
MOR4310040/N*	**431.00**	439.00	4.00	O/R
MOR4320035/N*	**432.00**	439.00	3.50	O/R
MOR4320040/N*	**432.00**	440.00	4.00	O/R
MOR4330035/N*	**433.00**	440.00	3.50	O/R
MOR4330040/N*	**433.00**	441.00	4.00	O/R
MOR4330120/N*	**433.00**	457.00	12.00	100.26
MOR4340035/N*	**434.00**	441.00	3.50	O/R
MOR4340040/N*	**434.00**	442.00	4.00	O/R
MOR4350035/N*	**435.00**	442.00	3.50	O/R
MOR4350040/N*	**435.00**	443.00	4.00	O/R
MOR4350080/N*	**435.00**	451.00	8.00	O/R
MOR4360035/N*	**436.00**	443.00	3.50	O/R
MOR4360040/N	**436.00**	444.00	4.00	31.25
MOR4370035/N*	**437.00**	444.00	3.50	O/R
MOR4370040/N*	**437.00**	445.00	4.00	O/R
MOR4370070/N*	**437.00**	451.00	7.00	O/R
MOR4380035/N*	**438.00**	445.00	3.50	O/R
MOR4380040/N*	**438.00**	446.00	4.00	34.26
MOR4390035/N*	**439.00**	446.00	3.50	O/R
MOR4390040/N*	**439.00**	447.00	4.00	O/R
MOR4393057/N*	**439.30**	450.70	5.70	46.20
MOR4400035/N*	**440.00**	447.00	3.50	O/R
MOR4400040/N*	**440.00**	448.00	4.00	O/R
MOR4410040/N*	**441.00**	449.00	4.00	O/R
MOR4420040/N*	**442.00**	450.00	4.00	O/R
MOR4430040/N*	**443.00**	451.00	4.00	O/R
MOR4440040/N*	**444.00**	452.00	4.00	O/R
MOR4450040/N*	**445.00**	453.00	4.00	O/R
MOR4450060/N	**445.00**	457.00	6.00	O/R
MOR4460040/N*	**446.00**	454.00	4.00	O/R
MOR4460060/N*	**446.00**	458.00	6.00	O/R
MOR4470040/N*	**447.00**	455.00	4.00	O/R
MOR4480040/N*	**448.00**	456.00	4.00	O/R
MOR4480060/N*	**448.00**	460.00	6.00	O/R
MOR4490040/N*	**449.00**	457.00	4.00	O/R
MOR4493057/N*	**449.30**	460.70	5.70	O/R
MOR4500040/N*	**450.00**	458.00	4.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR4500050/N*	**450.00**	460.00	5.00	O/R
MOR4500060/N*	**450.00**	462.00	6.00	O/R
MOR4500070/N*	**450.00**	464.00	7.00	O/R
MOR4510040/N*	**451.00**	459.00	4.00	O/R
MOR4520040/N*	**452.00**	460.00	4.00	O/R
MOR4520070/N*	**452.00**	466.00	7.00	51.40
MOR4530040/N*	**453.00**	461.00	4.00	O/R
MOR4530060/N*	**453.00**	465.00	6.00	O/R
MOR4540040/N*	**454.00**	462.00	4.00	O/R
MOR4540080/N*	**454.00**	470.00	8.00	O/R
MOR4550040/N*	**455.00**	463.00	4.00	O/R
MOR4560040/N*	**456.00**	464.00	4.00	O/R
MOR4570040/N*	**457.00**	465.00	4.00	O/R
MOR4570070/N*	**457.00**	471.00	7.00	O/R
MOR4572070/N*	**457.20**	471.20	7.00	O/R
MOR4580040/N*	**458.00**	466.00	4.00	O/R
MOR4590040/N*	**459.00**	467.00	4.00	O/R
MOR4593057/N*	**459.30**	470.70	5.70	50.20
MOR4600040/N*	**460.00**	468.00	4.00	O/R
MOR4610040/N*	**461.00**	469.00	4.00	O/R
MOR4620040/N*	**462.00**	470.00	4.00	O/R
MOR4620070/N*	**462.00**	476.00	7.00	O/R
MOR4630040/N*	**463.00**	471.00	4.00	O/R
MOR4640040/N*	**464.00**	472.00	4.00	O/R
MOR4643057/N*	**464.30**	475.70	5.70	50.21
MOR4650040/N*	**465.00**	473.00	4.00	O/R
MOR4660040/N*	**466.00**	474.00	4.00	O/R
MOR4670040/N*	**467.00**	475.00	4.00	O/R
MOR4680040/N*	**468.00**	476.00	4.00	O/R
MOR4690040/N*	**469.00**	477.00	4.00	O/R
MOR4693057/N*	**469.30**	480.70	5.70	51.26
MOR4700040/N*	**470.00**	478.00	4.00	O/R
MOR4700060/N*	**470.00**	482.00	6.00	O/R
MOR4710040/N*	**471.00**	479.00	4.00	O/R
MOR4720040/N*	**472.00**	480.00	4.00	O/R
MOR4730040/N*	**473.00**	481.00	4.00	O/R
MOR4740040/N*	**474.00**	482.00	4.00	O/R
MOR4750040/N*	**475.00**	483.00	4.00	O/R
MOR4750070/N*	**475.00**	489.00	7.00	O/R
MOR4760040/N*	**476.00**	484.00	4.00	41.66
MOR4770040/N*	**477.00**	485.00	4.00	O/R
MOR4780040/N*	**478.00**	486.00	4.00	O/R
MOR4780060/N*	**478.00**	490.00	6.00	O/R
MOR4790040/N*	**479.00**	487.00	4.00	O/R
MOR4793057/N	**479.30**	490.70	5.70	35.15
MOR4800040/N*	**480.00**	488.00	4.00	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR4800060/N*	**480.00**	492.00	6.00	O/R
MOR4800070/N*	**480.00**	494.00	7.00	O/R
MOR4810040/N*	**481.00**	489.00	4.00	O/R
MOR4814035/N*	**484.40**	491.40	3.50	14.99
MOR4814053/N*	**481.40**	492.00	5.30	O/R
MOR4814069/N*	**481.40**	495.20	6.90	O/R
MOR4820040/N*	**482.00**	490.00	4.00	O/R
MOR4830040/N*	**483.00**	491.00	4.00	O/R
MOR4830060/N*	**483.00**	495.00	6.00	O/R
MOR4840040/N*	**484.00**	492.00	4.00	O/R
MOR4850040/N*	**485.00**	493.00	4.00	O/R
MOR4860040/N*	**486.00**	494.00	4.00	O/R
MOR4860060/N*	**486.00**	498.00	6.00	O/R
MOR4870040/N*	**487.00**	495.00	4.00	O/R
MOR4870070/N*	**487.00**	501.00	7.00	O/R
MOR4880040/N*	**488.00**	496.00	4.00	O/R
MOR4890040/N*	**489.00**	497.00	4.00	O/R
MOR4890060/N*	**489.00**	501.00	6.00	O/R
MOR4900040/N*	**490.00**	498.00	4.00	O/R
MOR4910040/N*	**491.00**	499.00	4.00	O/R
MOR4920040/N*	**492.00**	500.00	4.00	O/R
MOR4930040/N*	**493.00**	501.00	4.00	O/R
MOR4940040/N*	**494.00**	502.00	4.00	O/R
MOR4946053/N*	**494.60**	505.20	5.30	26.88
MOR4946070/N*	**494.60**	508.60	7.00	O/R
MOR4950040/N*	**495.00**	503.00	4.00	O/R
MOR4960040/N*	**496.00**	504.00	4.00	O/R
MOR4970040/N*	**497.00**	505.00	4.00	O/R
MOR4980040/N*	**498.00**	506.00	4.00	O/R
MOR4990040/N*	**499.00**	507.00	4.00	O/R
MOR4993057/N*	**499.30**	510.70	5.70	51.20
MOR5000040/N*	**500.00**	508.00	4.00	O/R
MOR5000060/N*	**500.00**	512.00	6.00	O/R
MOR5000070/N*	**500.00**	514.00	7.00	O/R
MOR5040060/N*	**504.00**	516.00	6.00	O/R
MOR5050060/N*	**505.00**	517.00	6.00	O/R
MOR5080060/N*	**508.00**	520.00	6.00	O/R
MOR5100060/N*	**510.00**	522.00	6.00	O/R
MOR5150070/N*	**515.00**	529.00	7.00	O/R
MOR5160070/N*	**516.00**	530.00	7.00	O/R
MOR5200060/N	**520.00**	532.00	6.00	O/R
MOR5220060/N*	**522.00**	534.00	6.00	O/R
MOR5293057/N*	**529.30**	540.70	5.70	O/R
MOR5300040/N*	**530.00**	538.00	4.00	O/R
MOR5300060/N*	**530.00**	542.00	6.00	O/R
MOR5300070/N*	**530.00**	544.00	7.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 70A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR5400060/N*	**540.00**	552.00	6.00	O/R
MOR5440060/N*	**544.00**	556.00	6.00	O/R
MOR5450070/N*	**545.00**	559.00	7.00	O/R
MOR5454070/N*	**545.40**	559.40	7.00	O/R
MOR5454770/N*	**545.47**	559.47	7.00	O/R
MOR5483057/N*	**548.30**	559.70	5.70	O/R
MOR5490060/N*	**549.00**	561.00	6.00	O/R
MOR5520060/N*	**552.00**	564.00	6.00	O/R
MOR5550060/N*	**555.00**	567.00	6.00	O/R
MOR5600060/N*	**560.00**	572.00	6.00	O/R
MOR5600070/N*	**560.00**	574.00	7.00	O/R
MOR5690060/N*	**569.00**	581.00	6.00	29.87
MOR5750060/N*	**575.00**	587.00	6.00	O/R
MOR5790060/N*	**579.00**	591.00	6.00	O/R
MOR5800070/N*	**580.00**	594.00	7.00	O/R

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR5950030/N*	**595.00**	601.00	3.00	O/R
MOR5962070/N*	**596.20**	610.20	7.00	O/R
MOR5962770/N*	**596.27**	610.27	7.00	O/R
MOR6000070/N*	**600.00**	614.00	7.00	O/R
MOR6000080/N*	**600.00**	616.00	8.00	O/R
MOR6150070/N*	**615.00**	629.00	7.00	O/R
MOR6300070/N*	**630.00**	644.00	7.00	O/R
MOR6470070/N*	**647.00**	661.00	7.00	O/R
MOR6470770/N*	**647.07**	661.07	7.00	O/R
MOR6500070/N*	**650.00**	664.00	7.00	O/R
MOR6700070/N*	**670.00**	684.00	7.00	O/R
MOR6830060/N*	**683.00**	695.00	6.00	O/R
MOR7103057/N*	**710.30**	721.70	5.70	O/R
MOR7203057/N*	**720.30**	731.70	5.70	O/R
MOR8042030/N*	**804.20**	810.20	3.00	O/R

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



JS B 2401	Thickness W (mm)		Inner Diameter d (mm)	
P 3			2.8	±0.14
P 4			3.8	±0.14
P 5			4.8	±0.15
P 6			5.8	±0.15
P 7	1.9	±0.08	6.8	±0.16
P 8			7.8	±0.16
P 9			8.8	±0.17
P 10			9.8	±0.17
P 10A			9.8	±0.17
P 11			10.8	±0.18
P 11.2			11.0	±0.18
P 12			11.8	±0.19
P 12.5			12.3	±0.19
P 14			13.8	±0.19
P 15	2.4	±0.09	14.8	±0.20
P 16			15.8	±0.20
P 18			17.8	±0.21
P 20			19.8	±0.22
P 21			20.8	±0.23
P 22			21.8	±0.24
P 22A			21.7	±0.24
P 22.4			22.1	±0.24
P 24			23.7	±0.24
P 25			24.7	±0.25
P25.5			25.2	±0.25
P 26			25.7	±0.26
P 28			27.7	±0.28
P 29			28.7	±0.29
P 29.5			29.2	±0.29
P30			29.2	±0.29
P 31	3.5	±0.10	30.7	±0.30
P 31.5			31.2	±0.31
P 32			31.7	±0.31
P 34			33.7	±0.33
P 35			34.7	±0.34
P 35.5			35.2	±0.34
P 36			35.7	±0.34
P 38			37.7	±0.37
P 39			38.7	±0.37
P 40			39.7	±0.37
P 41			40.7	±0.38
P 42			41.7	±0.39
P 44			43.7	±0.41
P 45			44.7	±0.41
P 46			45.7	±0.42

JS B 2401	Thickness W (mm)		Inner Diameter d (mm)	
P 48			47.7	±0.44
P 49	3.5	±0.10	48.7	±0.45
P 50			49.7	±0.45
			47.6	±0.45
P 48A			49.6	±0.45
P 50A			51.6	±0.47
P 52			52.6	±0.48
P 53			54.6	±0.49
P 55				
P 56			55.6	±0.50
P 58			57.6	±0.52
P 60			59.6	±0.53
P 62			61.6	±0.55
P 63			62.6	±0.56
P 65			64.6	±0.57
P 67			66.6	±0.59
P 70			69.6	±0.61
P 71			70.6	±0.62
P 75			74.6	±0.65
	5.7	±0.13		
P 80			79.6	±0.69
P 85			84.6	±0.73
P 90			89.6	±0.77
P 95			94.6	±0.81
P 100			99.6	±0.84
P 102				
P 105			101.6	±0.85
P 110			104.6	±0.87
P 112			109.6	±0.91
P 115			111.6	±0.92
			114.6	±0.94
P 120				
P 125			119.6	±0.98
P 130			124.6	±1.01
P 132			129.6	±1.05
P 135			131.6	±1.06
			134.6	±1.09
P 140				
P 145			139.6	±1.12
P 150			144.6	±1.16
			149.6	±1.19
P 150A			149.5	±1.19
P 155			154.5	±1.23
P 160			159.5	±1.26
P 165			164.5	±1.30
P 170			169.5	±1.33
	8.4	±0.15		
P 175			174.5	±1.37
P 180			179.5	±1.40
P 185			184.5	±1.44
P 190			189.5	±1.48
P 195			194.5	±1.51

JS B 2401	Thickness W (mm)		Inner Diameter d (mm)	
P 200			199.5	±1.55
P 205			204.5	±1.58
P 209			208.5	±1.61
P 210			209.5	±1.62
P 215			214.5	±1.65
P 220			219.5	±1.68
P 225			224.5	±1.71
P 230			229.5	±1.75
P 235			234.5	±1.78
P 240			239.5	±1.81
P 245	8.4	±0.15	244.5	±1.84
P 250			249.5	±1.88
P 255			254.5	±1.91
P 260			259.5	±1.94
P 265			264.5	±1.97
P 270			269.5	±2.01
P 275			274.5	±2.04
P 280			279.5	±2.07
P 285			284.5	±2.10
P 290			289.5	±2.14
P 295			294.5	±2.17
P 300			299.5	±2.20
P 315			314.5	±2.30
P 320			319.5	±2.33
P 335			334.5	±2.42
P 340			339.5	±2.45
P 355			354.5	±2.54
P 360			359.5	±2.57
P 375			374.5	±2.67
P 385			384.5	±2.73
P 400			399.5	±2.82
			24.4	±0.25
G 25			29.4	±0.29
G 30			34.4	±0.33
G 35			39.4	±0.37
G 40			44.4	±0.41
G 45				
G 50			49.4	±0.45
G 55			54.4	±0.49
G 60			50.4	±0.53
G 65			64.4	±0.57
G 70			69.4	±0.61
G 75			74.4	±0.65
G 80			79.4	±0.69
G 85	3.1	±0.10	84.4	±0.73
G 90			89.4	±0.77
G 95			94.4	±0.81

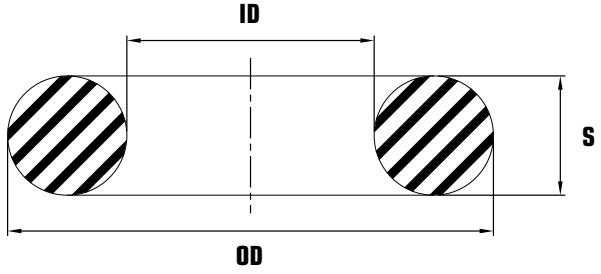
O'RING CHART JIS B2401

JS B 2401	Thickness W (mm)		Inner Diameter d (mm)		JS B 2401	Thickness W (mm)		Inner Diameter d (mm)		JS B 2401	Thickness W (mm)		Inner Diameter d (mm)	
G 100			99.4	±0.85	**G 200**			199.3	±1.55	**G 300**			299.3	±2.20
G 105			104.4	±0.87	**G 205**			204.3	±1.58	**G 305**			304.3	±2.24
G 110			109.4	±0.91	**G 210**			209.3	±1.61	**G 310**			309.3	±2.27
G 115			114.4	±0.94	**G 215**			214.3	±1.64	**G 315**			314.3	±2.30
G 120			119.4	±0.98	**G 220**			219.3	±1.68	**G 320**			319.3	±2.33
	3.1	±0.10												
G 125			124.4	±1.01	**G 225**			224.3	±1.71	**G 325**			324.3	±2.36
G 130			129.4	±1.05	**G 230**			229.3	±1.73	**G 330**			329.3	±2.39
G 135			134.4	±1.08	**G 235**	5.7	±0.13	234.3	±1.77	**G 335**	5.7	±0.13	334.3	±2.42
G 140			139.4	±1.12	**G 240**			239.3	±1.81	**G 340**			339.3	±2.45
G 145			144.4	±1.16	**G 245**			244.3	±1.84	**G 345**			344.3	±2.48
G 150			149.3	±1.19	**G 250**			249.3	±1.88	**G 350**			349.3	±2.51
G 155			154.3	±1.23	**G 255**			254.3	±1.91	**G 355**			354.3	±2.54
G 160			159.3	±1.26	**G 260**			259.3	±1.94	**G 360**			359.3	±2.57
G 165			164.3	±1.30	**G 265**			264.3	±1.97	**G 365**			364.3	±2.60
G 170			169.3	±1.33	**G 270**			269.3	±2.01	**G 370**			369.3	±2.63
G 175			174.3	±1.37	**G 275**			274.3	±2.04	**G 375**			374.3	±2.67
G 180			179.3	±1.40	**G 280**			279.3	±2.07	**G 380**			379.3	±2.70
G 185	5.7	±0.13	184.3	±1.44	**G 285**			284.3	±2.10	**G 385**			384.3	±2.73
G 190			189.3	±1.47	**G 290**			289.3	±2.14	**G 390**			389.3	±2.76
G 195			194.3	±1.51	**G 295**			294.3	±2.17	**G 395**			394.3	±2.79
										G 400			399.3	±2.82





Standard Materials	Temperature Range
Nitrile	-30°F to +250°F (-34°C to +121°C)



O'Rings are toroidal-shaped elastomeric seals used in a variety of applications.
Supplied in 90 Shore A hardness nitrile material and in a wide range of available dimensions.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0022016/N90	**2.20**	5.40	1.60	0.56
MOR0028019/N90	**2.80**	6.60	1.90	0.14
MOR0030020/N90*	**3.00**	7.00	2.00	0.14
MOR0031016/N90	**3.10**	6.30	1.60	0.56
MOR0034019/N90	**3.40**	7.20	1.90	0.45
MOR0035015/N90*	**3.50**	6.50	1.50	0.71
MOR0038019/N90	**3.80**	7.60	1.90	0.14
MOR0390030/N90*	**3.90**	9.90	3.00	0.75
MOR0040020/N90	**4.00**	8.00	2.00	0.17
MOR0041016/N90	**4.10**	7.30	1.60	0.65
MOR0042019/N90*	**4.20**	8.00	1.90	0.54
MOR0043024/N90	**4.30**	9.10	2.40	0.45
MOR0048019/N90	**4.80**	8.60	1.90	0.15
MOR0050015/N90*	**5.00**	8.00	1.50	0.30
MOR0050020/N90	**5.00**	9.00	2.00	0.36
MOR0053024/N90	**5.30**	10.10	2.40	0.45
MOR0056024/N90	**5.60**	10.40	2.40	0.45
MOR0057019/N90*	**5.70**	9.50	1.90	0.45
MOR0058019/N90	**5.80**	9.60	1.90	0.15
MOR0060020/N90	**6.00**	10.00	2.00	0.29
MOR0064019/N90*	**6.40**	10.20	1.90	0.30
MOR0067017/N90*	**6.70**	10.10	1.70	0.30

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0068019/N90	**6.80**	10.60	1.90	0.33
MOR0070020/N90	**7.00**	11.00	2.00	0.59
MOR0071016/N90	**7.10**	10.30	1.60	0.69
MOR0073024/N90	**7.30**	12.10	2.40	0.51
MOR0076024/N90	**7.60**	12.40	2.40	0.51
MOR0078019/N90	**7.80**	11.60	1.90	0.36
MOR0080019/N90*	**8.00**	11.80	1.90	0.33
MOR0080020/N90	**8.00**	12.00	2.00	0.29
MOR0083024/N90	**8.30**	13.10	2.40	0.65
MOR0086024/N90	**8.60**	13.40	2.40	0.69
MOR0088019/N90	**8.80**	12.60	1.90	0.36
MOR0089019/N90*	**8.90**	12.70	1.90	0.66
MOR0090020/N90	**9.00**	13.00	2.00	0.29
MOR0090030/N90	**9.00**	15.00	3.00	0.33
MOR0091016/N90	**9.10**	12.30	1.60	0.71
MOR0093024/N90	**9.30**	14.10	2.40	0.50
MOR0098019/N90	**9.80**	13.60	1.90	0.38
MOR0098024/N90	**9.80**	14.60	2.40	0.56
MOR0100020/N90	**10.00**	14.00	2.00	0.30
MOR0100025/N90	**10.00**	15.00	2.50	0.30
MOR0100030/N90	**10.00**	16.00	3.00	0.33
MOR0101016/N90	**10.10**	13.30	1.60	0.71

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - NBR 90A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0103024/N90	**10.30**	15.10	2.40	0.71
MOR0106024/N90*	**10.60**	15.40	2.40	0.71
MOR0108024/N90	**10.80**	15.60	2.40	0.69
MOR0110015/N90	**11.00**	14.00	1.50	0.30
MOR0110020/N90*	**11.00**	15.00	2.00	0.59
MOR0110024/N90	**11.00**	15.80	2.40	0.59
MOR0110025/N90	**11.00**	16.00	2.50	0.84
MOR0110030/N90	**11.00**	17.00	3.00	0.33
MOR0113024/N90	**11.30**	16.10	2.40	0.33
MOR0118024/N90	**11.80**	16.60	2.40	0.59
MOR0120015/N90	**12.00**	15.00	1.50	0.69
MOR0120020/N90	**12.00**	16.00	2.00	0.30
MOR0120025/N90	**12.00**	17.00	2.50	0.66
MOR0123024/N90	**12.30**	17.10	2.40	0.78
MOR0128024/N90	**12.80**	17.60	2.40	0.59
MOR0130015/N90	**13.00**	16.00	1.50	0.33
MOR0130024/N90*	**13.00**	17.80	2.40	0.36
MOR0130025/N90	**13.00**	18.00	2.50	0.36
MOR0131016/N90*	**13.10**	16.30	1.60	0.78
MOR0133018/N90*	**13.30**	16.90	1.80	0.79
MOR0133024/N90	**13.30**	18.10	2.40	0.80
MOR0138024/N90	**13.80**	18.60	2.40	0.78
MOR0140020/N90	**14.00**	18.00	2.00	0.30
MOR0140025/N90	**14.00**	19.00	2.50	0.36
MOR0143024/N90	**14.30**	19.10	2.40	0.36
MOR0145040/N90	**14.50**	22.50	4.00	0.71
MOR0148024/N90	**14.80**	19.60	2.40	0.78
MOR0150020/N90	**15.00**	19.00	2.00	3.12
MOR0150025/N90	**15.00**	20.00	2.50	0.51
MOR0153024/N90	**15.30**	20.10	2.40	0.63
MOR0156024/N90*	**15.60**	20.40	2.40	0.66
MOR0158024/N90	**15.80**	20.60	2.40	0.78
MOR0160015/N90	**16.00**	19.00	1.50	0.38
MOR0160020/N90	**16.00**	20.00	2.00	0.33
MOR0160025/N90	**16.00**	21.00	2.50	0.56
MOR0163024/N90	**16.30**	21.10	2.40	0.89
MOR0167034/N90	**16.70**	23.50	3.40	1.10
MOR0168024/N90*	**16.80**	21.60	2.40	0.91
MOR0170025/N90	**17.00**	22.00	2.50	0.56
MOR0170030/N90*	**17.00**	23.00	3.00	1.24
MOR0173024/N90	**17.30**	22.10	2.40	0.89
MOR0178024/N90	**17.80**	22.60	2.40	0.80
MOR0180025/N90	**18.00**	23.00	2.50	0.59
MOR0180030/N90*	**18.00**	24.00	3.00	1.36
MOR0183024/N90	**18.30**	23.10	2.40	1.14
MOR0188024/N90*	**18.80**	23.60	2.40	0.85

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0190020/N90	**19.00**	23.00	2.00	0.44
MOR0190025/N90	**19.00**	24.00	2.50	0.65
MOR0190030/N90	**19.00**	25.00	3.00	1.58
MOR0192030/N90*	**19.20**	25.20	3.00	1.69
MOR0193022/N90*	**19.30**	23.70	2.20	1.37
MOR0193024/N90	**19.30**	24.10	2.40	1.20
MOR0196024/N90	**19.60**	24.40	2.40	1.17
MOR0198024/N90	**19.80**	24.60	2.40	1.08
MOR0200020/N90	**20.00**	24.00	2.00	0.50
MOR0200025/N90	**20.00**	25.00	2.50	1.04
MOR0200030/N90	**20.00**	26.00	3.00	1.61
MOR0203024/N90	**20.30**	25.10	2.40	1.44
MOR0208024/N90	**20.80**	25.60	2.40	1.35
MOR0216024/N90	**21.60**	26.40	2.40	0.93
MOR0217035/N90	**21.70**	28.70	3.50	0.69
MOR0218024/N90	**21.80**	26.60	2.40	1.11
MOR0220025/N90	**22.00**	27.00	2.50	1.10
MOR0220030/N90	**22.00**	28.00	3.00	1.65
MOR0221035/N90	**22.10**	29.10	3.50	0.78
MOR0222026/N90*	**22.20**	27.40	2.60	0.56
MOR0222030/N90*	**22.20**	28.20	3.00	1.74
MOR0230030/N90*	**23.00**	29.00	3.00	1.80
MOR0230036/N90*	**23.00**	30.20	3.60	1.49
MOR0235024/N90	**23.50**	28.30	2.40	2.37
MOR0235040/N90	**23.50**	31.50	4.00	2.30
MOR0237035/N90	**23.70**	30.70	3.50	1.02
MOR0240020/N90	**24.00**	28.00	2.00	1.76
MOR0240025/N90	**24.00**	29.00	2.50	1.58
MOR0240030/N90	**24.00**	30.00	3.00	1.65
MOR0244031/N90	**24.40**	30.60	3.10	0.56
MOR0246036/N90	**24.60**	31.80	3.60	0.86
MOR0247035/N90	**24.70**	31.70	3.50	1.02
MOR0250020/N90	**25.00**	29.00	2.00	1.11
MOR0250025/N90*	**25.00**	30.00	2.50	1.67
MOR0250030/N90	**25.00**	31.00	3.00	1.79
MOR0252035/N90	**25.20**	32.20	3.50	0.78
MOR0257035/N90	**25.70**	32.70	3.50	1.35
MOR0262030/N90	**26.20**	32.20	3.00	2.07
MOR0262036/N90*	**26.20**	33.40	3.60	1.58
MOR0270015/N90	**27.00**	30.00	1.50	1.50
MOR0270030/N90	**27.00**	33.00	3.00	2.15
MOR0277035/N90	**27.70**	34.70	3.50	1.46
MOR0278036/N90*	**27.80**	35.00	3.60	1.79
MOR0280030/N90	**28.00**	34.00	3.00	2.19
MOR0287035/N90	**28.70**	35.70	3.50	1.70
MOR0292035/N90	**29.20**	36.20	3.50	0.87

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0293036/N90*	**29.30**	36.50	3.60	0.84
MOR0294031/N90	**29.40**	35.60	3.10	0.77
MOR0297035/N90	**29.70**	36.70	3.50	1.71
MOR0300030/N90	**30.00**	36.00	3.00	1.61
MOR0307035/N90	**30.70**	37.70	3.50	1.79
MOR0308036/N90*	**30.80**	38.00	3.60	1.32
MOR0312035/N90	**31.20**	38.20	3.50	0.89
MOR0317035/N90	**31.70**	38.70	3.50	1.82
MOR0320030/N90	**32.00**	38.00	3.00	1.65
MOR0327035/N90	**32.70**	39.70	3.50	2.13
MOR0330030/N90*	**33.00**	39.00	3.00	1.65
MOR0337035/N90	**33.70**	40.70	3.50	1.92
MOR0341036/N90*	**34.10**	41.30	3.60	2.37
MOR0342030/N90	**34.20**	40.20	3.00	1.65
MOR0344031/N90	**34.40**	40.60	3.10	0.95
MOR0347035/N90	**34.70**	41.70	3.50	1.92
MOR0350020/N90	**35.00**	39.00	2.00	2.21
MOR0350030/N90	**35.00**	41.00	3.00	1.65
MOR0352035/N90	**35.20**	42.20	3.50	1.14
MOR0357035/N90	**35.70**	42.70	3.50	1.94
MOR0360030/N90	**36.00**	42.00	3.00	2.13
MOR0373035/N90	**37.30**	44.30	3.50	1.95
MOR0377035/N90	**37.70**	44.70	3.50	2.03
MOR0380030/N90*	**38.00**	44.00	3.00	2.00
MOR0380040/N90*	**38.00**	46.00	4.00	2.60
MOR0387035/N90	**38.70**	45.70	3.50	2.07
MOR0393057/N90	**39.30**	50.70	5.70	2.09
MOR0394031/N90	**39.40**	45.60	3.10	1.02
MOR0397035/N90	**39.70**	46.70	3.50	2.09
MOR0400020/N90	**40.00**	44.00	2.00	2.42
MOR0400030/N90	**40.00**	46.00	3.00	2.84
MOR0400040/N90*	**40.00**	48.00	4.00	2.00
MOR0407035/N90	**40.70**	47.70	3.50	2.10
MOR0417035/N90	**41.70**	48.70	3.50	2.15
MOR0420020/N90*	**42.00**	46.00	2.00	2.00
MOR0420040/N90*	**42.00**	50.00	4.00	2.94
MOR0422030/N90	**42.20**	48.20	3.00	2.85
MOR0428035/N90*	**42.80**	49.80	3.50	2.66
MOR0437035/N90	**43.70**	50.70	3.50	2.34
MOR0437035/N90-LT*	**43.70**	50.70	3.50	2.50
MOR0443057/N90	**44.30**	55.70	5.70	2.34
MOR0444031/N90	**44.40**	50.60	3.10	2.10
MOR0444035/N90	**44.40**	51.40	3.50	2.21
MOR0447035/N90	**44.70**	51.70	3.50	2.34
MOR0450030/N90*	**45.00**	51.00	3.00	3.01
MOR0450040/N90*	**45.00**	53.00	4.00	2.66

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0457035/N90	**45.70**	52.70	3.50	2.36
MOR0476035/N90*	**47.60**	54.60	3.50	2.93
MOR0476057/N90*	**47.60**	59.00	5.70	3.32
MOR0477035/N90	**47.70**	54.70	3.50	3.02
MOR0487035/N90	**48.70**	55.70	3.50	3.09
MOR0492035/N90	**49.20**	56.20	3.50	2.31
MOR0493057/N90	**49.30**	60.70	5.70	3.42
MOR0494031/N90	**49.40**	55.60	3.10	2.19
MOR0495030/N90	**49.50**	55.50	3.00	2.49
MOR0496057/N90	**49.60**	61.00	5.70	3.42
MOR0497035/N90	**49.70**	56.70	3.50	3.11
MOR0497035/N90-LT	**49.70**	56.70	3.50	20.70
MOR0500020/N90	**50.00**	54.00	2.00	4.95
MOR0500025/N90	**50.00**	55.00	2.50	2.94
MOR0500030/N90	**50.00**	56.00	3.00	2.94
MOR0513057/N90	**51.30**	62.70	5.70	3.68
MOR0516057/N90	**51.60**	63.00	5.70	4.67
MOR0523035/N90*	**52.30**	59.30	3.50	5.10
MOR0523057/N90*	**52.30**	63.70	5.70	4.28
MOR0526057/N90	**52.60**	64.00	5.70	3.57
MOR0537035/N90*	**53.70**	60.70	3.50	3.57
MOR0540030/N90*	**54.00**	60.00	3.00	1.13
MOR0543057/N90	**54.30**	65.70	5.70	4.46
MOR0544031/N90	**54.40**	60.60	3.10	2.31
MOR0545030/N90	**54.50**	60.50	3.00	3.09
MOR0546057/N90	**54.60**	66.00	5.70	3.63
MOR0550035/N90*	**55.00**	62.00	3.50	3.95
MOR0553057/N90*	**55.30**	66.70	5.70	4.95
MOR0555035/N90	**55.50**	62.50	3.50	4.35
MOR0556057/N90	**55.60**	67.00	5.70	3.65
MOR0560030/N90*	**56.00**	62.00	3.00	3.80
MOR0570030/N90	**57.00**	63.00	3.00	4.50
MOR0571035/N90*	**57.10**	64.10	3.50	4.16
MOR0573057/N90*	**57.30**	68.70	5.70	6.05
MOR0576057/N90	**57.60**	69.00	5.70	4.82
MOR0590035/N90	**59.00**	66.00	3.50	3.14
MOR0593057/N90	**59.30**	70.70	5.70	6.12
MOR0594031/N90	**59.40**	65.60	3.10	2.61
MOR0595030/N90	**59.50**	65.50	3.00	2.94
MOR0596057/N90	**59.60**	71.00	5.70	4.89
MOR0600030/N90*	**60.00**	66.00	3.00	4.01
MOR0603035/N90	**60.30**	67.30	3.50	4.46
MOR0613057/N90*	**61.30**	72.70	5.70	6.20
MOR0616057/N90*	**61.60**	73.00	5.70	6.06
MOR0619035/N90	**61.90**	68.90	3.50	6.45
MOR0620020/N90*	**62.00**	68.00	2.00	6.74

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Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0623057/N90	**62.30**	73.70	5.70	6.83
MOR0624031/N90*	**62.40**	68.60	3.10	8.54
MOR0626057/N90	**62.60**	74.00	5.70	6.81
MOR0640020/N90*	**64.00**	68.00	2.00	2.37
MOR0643057/N90	**64.30**	75.70	5.70	6.24
MOR0644031/N90	**64.40**	70.60	3.10	2.60
MOR0645030/N90	**64.50**	70.50	3.00	2.81
MOR0646057/N90	**64.60**	76.00	5.70	6.15
MOR0650020/N90*	**65.00**	69.00	2.00	3.08
MOR0650035/N90	**65.00**	72.00	3.50	4.46
MOR0659035/N90*	**65.90**	72.90	3.50	4.68
MOR0663057/N90*	**66.30**	77.70	5.70	6.60
MOR0666057/N90	**66.60**	78.00	5.70	6.24
MOR0693057/N90	**69.30**	80.70	5.70	6.83
MOR0694031/N90	**69.40**	75.60	3.10	2.64
MOR0696057/N90	**69.60**	81.00	5.70	6.41
MOR0700020/N90*	**70.00**	74.00	2.00	2.31
MOR0706057/N90	**70.60**	82.00	5.70	6.44
MOR0710020/N90*	**71.00**	75.00	2.00	3.30
MOR0720030/N90	**72.00**	78.00	3.00	6.81
MOR0743057/N90	**74.30**	85.70	5.70	7.40
MOR0744031/N90	**74.40**	80.60	3.10	2.54
MOR0745031/N90*	**74.50**	80.70	3.10	6.45
MOR0746057/N90	**74.60**	86.00	5.70	6.60
MOR0750050/N90*	**75.00**	85.00	5.00	8.01
MOR0760025/N90*	**76.00**	81.00	2.50	6.32
MOR0793057/N90	**79.30**	90.70	5.70	7.46
MOR0794031/N90	**79.40**	85.60	3.10	3.17
MOR0795030/N90	**79.50**	85.50	3.00	5.45
MOR0796057/N90	**79.60**	91.00	5.70	6.87
MOR0800040/N90*	**80.00**	88.00	4.00	4.97
MOR0800050/N90	**80.00**	90.00	5.00	5.90
MOR0820030/N90*	**82.00**	88.00	3.00	3.56
MOR0840030/N90*	**84.00**	90.00	3.00	13.01
MOR0843057/N90	**84.30**	95.70	5.70	7.89
MOR0844031/N90	**84.40**	90.60	3.10	3.30
MOR0845030/N90	**84.50**	90.50	3.00	3.57
MOR0846057/N90	**84.60**	96.00	5.70	7.02
MOR0890040/N90*	**89.00**	97.00	4.00	6.41
MOR0893057/N90	**89.30**	100.70	5.70	8.39
MOR0894031/N90	**89.40**	95.60	3.10	3.35
MOR0894031/N90-LT*	**89.40**	95.60	3.10	3.74
MOR0895030/N90*	**89.50**	95.50	3.00	3.80
MOR0896057/N90	**89.60**	101.00	5.70	7.97
MOR0920030/N90*	**92.00**	98.00	3.00	3.99
MOR0920040/N90*	**92.00**	100.00	4.00	5.01

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0943030/N90*	**94.30**	100.30	3.00	4.26
MOR0943057/N90	**94.30**	105.70	5.70	9.18
MOR0944031/N90	**94.40**	100.60	3.10	3.42
MOR0945030/N90	**94.50**	100.50	3.00	3.68
MOR0946057/N90	**94.60**	106.00	5.70	9.29
MOR0950050/N90*	**95.00**	105.00	5.00	1.28
MOR0980030/N90	**98.00**	104.00	3.00	3.99
MOR0993057/N90	**99.30**	110.70	5.70	9.30
MOR0994031/N90	**99.40**	105.60	3.10	3.74
MOR0995030/N90	**99.50**	105.50	3.00	3.86
MOR0996057/N90	**99.60**	111.00	5.70	9.50
MOR1016057/N90*	**101.60**	113.00	5.70	9.56
MOR1043057/N90	**104.30**	115.70	5.70	9.45
MOR1044031/N90	**104.40**	110.60	3.10	3.80
MOR1044031/N90-LT	**104.40**	110.60	3.10	24.50
MOR1045030/N90	**104.50**	110.50	3.00	4.10
MOR1046057/N90	**104.60**	116.00	5.70	9.69
MOR1093057/N90	**109.30**	120.70	5.70	9.56
MOR1094031/N90	**109.40**	115.60	3.10	3.86
MOR1094031/N90-LT	**109.40**	115.60	3.10	24.84
MOR1095030/N90	**109.50**	115.50	3.00	4.10
MOR1096057/N90	**109.60**	121.00	5.70	9.89
MOR1100050/N90	**110.00**	120.00	5.00	10.08
MOR1113057/N90*	**111.30**	122.70	5.70	11.18
MOR1116057/N90	**111.60**	123.00	5.70	9.96
MOR1120040/N90	**112.00**	120.00	4.00	9.93
MOR1120050/N90	**112.00**	122.00	5.00	10.74
MOR1140032/N90*	**114.00**	120.40	3.20	24.18
MOR1143057/N90	**114.30**	125.70	5.70	9.96
MOR1144031/N90	**114.40**	120.60	3.10	3.93
MOR1145020/N90*	**114.50**	118.50	2.00	4.13
MOR1145030/N90	**114.50**	120.50	3.00	4.68
MOR1146057/N90	**114.60**	126.00	5.70	10.07
MOR1193057/N90	**119.30**	130.70	5.70	9.68
MOR1194031/N90	**119.40**	125.60	3.10	4.25
MOR1195030/N90	**119.50**	125.50	3.00	4.46
MOR1196057/N90	**119.60**	131.00	5.70	10.26
MOR1200025/N90*	**120.00**	125.00	2.50	4.10
MOR1243057/N90	**124.30**	135.70	5.70	10.11
MOR1244031/N90	**124.40**	130.60	3.10	4.32
MOR1244031/N90-LT*	**124.40**	130.60	3.10	4.36
MOR1245030/N90	**124.50**	130.50	3.00	4.46
MOR1246057/N90	**124.60**	136.00	5.70	10.26
MOR1260045/N90*	**126.00**	135.00	4.50	10.46
MOR1270030/N90*	**127.00**	133.00	3.00	4.68
MOR1274031/N90*	**127.40**	133.60	3.10	4.74

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Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1293057/N90	**129.30**	140.70	5.70	10.19
MOR1294031/N90	**129.40**	135.60	3.10	4.40
MOR1296057/N90	**129.60**	141.00	5.70	10.26
MOR1297035/N90*	**129.70**	136.70	3.50	6.41
MOR1300050/N90*	**130.00**	140.00	5.00	8.75
MOR1313057/N90*	**131.30**	142.70	5.70	10.74
MOR1316057/N90*	**131.60**	143.00	5.70	10.34
MOR1343057/N90	**134.30**	145.70	5.70	11.12
MOR1344031/N90	**134.40**	140.60	3.10	5.12
MOR1345030/N90	**134.50**	140.50	3.00	5.40
MOR1346057/N90	**134.60**	146.00	5.70	10.41
MOR1350030/N90*	**135.00**	141.00	3.00	4.74
MOR1393057/N90	**139.30**	150.70	5.70	11.19
MOR1394031/N90	**139.40**	145.60	3.10	5.18
MOR1395030/N90	**139.50**	145.50	3.00	5.51
MOR1396057/N90	**139.60**	151.00	5.70	10.52
MOR1400025/N90*	**140.00**	145.00	2.50	6.56
MOR1442084/N90*	**144.20**	161.00	8.40	22.73
MOR1443057/N90	**144.30**	155.70	5.70	11.76
MOR1444031/N90	**144.40**	150.60	3.10	5.24
MOR1446057/N90	**144.60**	156.00	5.70	10.70
MOR1492084/N90	**149.20**	166.00	8.40	22.95
MOR1493057/N90	**149.30**	160.70	5.70	11.18
MOR1495084/N90	**149.50**	166.30	8.40	20.52
MOR1496057/N90	**149.60**	161.00	5.70	13.10
MOR1500035/N90	**150.00**	157.00	3.50	8.12
MOR1542084/N90*	**154.20**	171.00	8.40	23.31
MOR1543057/N90	**154.30**	165.70	5.70	13.26
MOR1545084/N90*	**154.50**	171.30	8.40	23.61
MOR1550030/N90	**155.00**	161.00	3.00	7.65
MOR1592084/N90*	**159.20**	176.00	8.40	23.60
MOR1593057/N90	**159.30**	170.70	5.70	13.82
MOR1595084/N90	**159.50**	176.30	8.40	26.10
MOR1642084/N90*	**164.20**	181.00	8.40	25.95
MOR1643057/N90	**164.30**	175.70	5.70	16.77
MOR1644031/N90	**164.40**	170.60	3.10	10.02
MOR1645084/N90	**164.50**	181.30	8.40	26.51
MOR1692084/N90*	**169.20**	186.00	8.40	26.51
MOR1693057/N90	**169.30**	180.70	5.70	16.94
MOR1694031/N90	**169.40**	175.60	3.10	10.02
MOR1695084/N90	**169.50**	186.30	8.40	26.82
MOR1742084/N90	**174.20**	191.00	8.40	26.99
MOR1743057/N90	**174.30**	185.70	5.70	17.22
MOR1745084/N90	**174.50**	191.30	8.40	27.20
MOR1792084/N90*	**179.20**	196.00	8.40	28.25
MOR1793057/N90	**179.30**	190.70	5.70	19.23

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1795084/N90*	**179.50**	196.30	8.40	29.49
MOR1842084/N90*	**184.20**	201.00	8.40	28.32
MOR1843057/N90*	**184.30**	195.70	5.70	19.44
MOR1845030/N90*	**184.50**	190.50	3.00	6.81
MOR1845084/N90	**184.50**	201.30	8.40	30.71
MOR1848084/N90*	**184.80**	201.60	8.40	30.03
MOR1892084/N90*	**189.20**	206.00	8.40	30.68
MOR1893057/N90	**189.30**	200.70	5.70	19.65
MOR1895084/N90	**189.50**	206.30	8.40	31.14
MOR1900030/N90	**190.00**	196.00	3.00	7.64
MOR1942084/N90*	**194.20**	211.00	8.40	31.35
MOR1943057/N90	**194.30**	205.70	5.70	19.86
MOR1945084/N90*	**194.50**	211.30	8.40	31.52
MOR1992084/N90*	**199.20**	216.00	8.40	31.46
MOR1993057/N90	**199.30**	210.70	5.70	25.59
MOR1995084/N90	**199.50**	216.30	8.40	31.91
MOR2000070/N90*	**200.00**	214.00	7.00	26.85
MOR2043057/N90	**204.30**	215.70	5.70	27.03
MOR2045084/N90	**204.50**	221.30	8.40	39.45
MOR2050030/N90*	**205.00**	211.00	3.00	11.76
MOR2085084/N90	**208.50**	225.30	8.40	38.84
MOR2093057/N90	**209.30**	220.70	5.70	30.33
MOR2094084/N90*	**209.40**	226.20	8.40	39.09
MOR2095084/N90	**209.50**	226.30	8.40	36.62
MOR2100050/N90*	**210.00**	220.00	5.00	24.30
MOR2143057/N90	**214.30**	225.70	5.70	31.67
MOR2145084/N90	**214.50**	231.30	8.40	34.67
MOR2193057/N90	**219.30**	230.70	5.70	31.14
MOR2193057/N90-LT*	**219.30**	230.70	5.70	35.01
MOR2195084/N90	**219.50**	236.30	8.40	35.01
MOR2243057/N90	**224.30**	235.70	5.70	36.89
MOR2245084/N90	**224.50**	241.30	8.40	46.46
MOR2293057/N90	**229.30**	240.70	5.70	37.38
MOR2295084/N90*	**229.50**	246.30	8.40	63.17
MOR2343057/N90	**234.30**	245.70	5.70	37.68
MOR2345084/N90	**234.50**	251.30	8.40	73.55
MOR2350070/N90	**235.00**	249.00	7.00	29.40
MOR2360070/N90	**236.00**	250.00	7.00	34.76
MOR2380050/N90*	**238.00**	248.00	5.00	26.73
MOR2393057/N90	**239.30**	250.70	5.70	39.71
MOR2393057/N90-LT*	**239.30**	250.70	5.70	39.71
MOR2395084/N90	**239.50**	256.30	8.40	91.71
MOR2430070/N90*	**243.00**	257.00	7.00	30.15
MOR2443057/N90	**244.30**	255.70	5.70	38.12
MOR2445084/N90	**244.50**	261.30	8.40	97.49
MOR2493057/N90	**249.30**	260.70	5.70	43.74

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Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR2495084/N90	**249.50**	266.30	8.40	100.29
MOR2545084/N90	**254.50**	271.30	8.40	101.09
MOR2593057/N90	**259.30**	270.70	5.70	46.32
MOR2595084/N90*	**259.50**	276.30	8.40	102.80
MOR2600070/N90	**260.00**	274.00	7.00	38.94
MOR2645084/N90	**264.50**	281.30	8.40	105.11
MOR2690080/N90*	**269.00**	285.00	8.00	35.70
MOR2693057/N90	**269.30**	280.70	5.70	46.65
MOR2695084/N90	**269.50**	286.30	8.40	112.65
MOR2740030/N90*	**274.00**	280.00	3.00	41.28
MOR2743057/N90	**274.30**	285.70	5.70	46.68
MOR2745084/N90	**274.50**	291.30	8.40	120.35
MOR2793057/N90	**279.30**	290.70	5.70	49.04
MOR2795084/N90	**279.50**	296.30	8.40	125.37
MOR2845084/N90*	**284.50**	301.30	8.40	125.37
MOR2893057/N90	**289.30**	300.70	5.70	57.89
MOR2895084/N90*	**289.50**	306.30	8.40	127.88
MOR2945084/N90	**294.50**	311.30	8.40	130.37
MOR2993057/N90	**299.30**	310.70	5.70	65.52
MOR2995084/N90	**299.50**	316.30	8.40	122.69
MOR3093057/N90	**309.30**	320.70	5.70	68.30

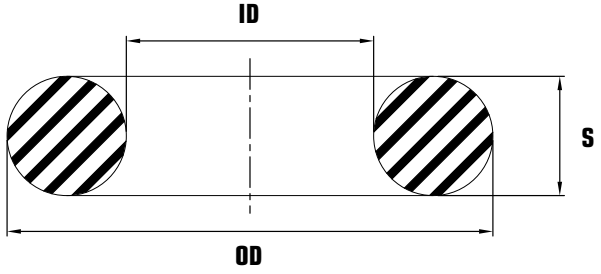
Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR3144057/N90	**314.40**	325.80	5.70	69.20
MOR3145084/N90	**314.50**	331.30	8.40	125.52
MOR3195084/N90	**319.50**	336.30	8.40	125.10
MOR3293057/N90*	**329.30**	340.70	5.70	65.39
MOR3300084/N90	**330.00**	346.80	8.40	134.51
MOR3345084/N90	**334.50**	351.30	8.40	140.42
MOR3395084/N90*	**339.50**	356.30	8.40	143.82
MOR3420053/N90	**342.00**	352.66	5.33	53.84
MOR3435084/N90	**343.50**	360.30	8.40	101.31
MOR3440080/N90*	**344.00**	360.00	8.00	59.25
MOR3445084/N90*	**344.50**	361.30	8.40	96.00
MOR3493057/N90*	**349.30**	360.70	5.70	75.74
MOR3545084/N90	**354.50**	371.30	8.40	147.50
MOR3595084/N90	**359.50**	376.30	8.40	154.80
MOR3745084/N90	**374.50**	391.30	8.40	172.85
MOR3845084/N90	**384.50**	401.30	8.40	160.59
MOR3995084/N90	**399.50**	416.30	8.40	160.49
MOR4543057/N90*	**454.30**	465.70	5.70	74.79
MOR4592057/N90*	**459.20**	470.60	5.70	77.31
MOR4645084/N90*	**464.50**	481.30	8.40	220.47
MOR5043057/N90*	**504.30**	515.70	5.70	116.01

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range
Polyurethane	-60°F to +250°F (-51°C to +121°C)



O'Rings are toroidal-shaped elastomeric seals used in a variety of applications.
Supplied in 90 durometer polyurethane material and in a wide range of available dimensions.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0170020/U*	**17.00**	21.00	2.00	20.32
MOR0400030/U*	**40.00**	46.00	3.00	14.56
MOR0450031/U*	**45.00**	51.20	3.10	14.15
MOR0490031/U*	**49.00**	55.20	3.10	19.36
MOR0500030/U	**50.00**	56.00	3.00	11.98
MOR0550031/U*	**55.00**	61.20	3.10	18.08
MOR0600050/U	**60.00**	70.00	5.00	6.52
MOR0650030/U*	**65.00**	71.00	3.00	7.98
MOR0700050/U	**70.00**	80.00	5.00	6.75
MOR0735031/U*	**73.50**	79.70	3.10	21.94

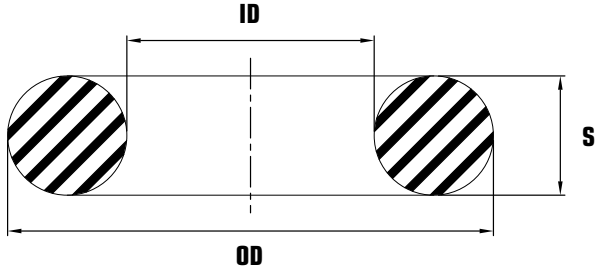
Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0796057/U*	**79.60**	91.00	5.70	21.76
MOR0800050/U	**80.00**	90.00	5.00	10.74
MOR0900050/U	**90.00**	100.00	5.00	18.80
MOR0950031/U*	**95.00**	101.20	3.10	28.96
MOR1000050/U	**100.00**	110.00	5.00	8.80
MOR1080031/U*	**108.00**	114.20	3.10	36.78
MOR1100050/U*	**110.00**	120.00	5.00	42.41
MOR1200050/U*	**120.00**	130.00	5.00	38.58
MOR1400050/U*	**140.00**	150.00	5.00	59.76

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - Silicone 72 - Metric



Standard Material	Temperature Range
Silicone	-65°F to +450°F (-54°C to +232°C)



O'Rings are toroidal-shaped elastomeric seals used in a variety of applications.
Supplied in 72 durometer silicone material and in a wide range of available dimensions.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

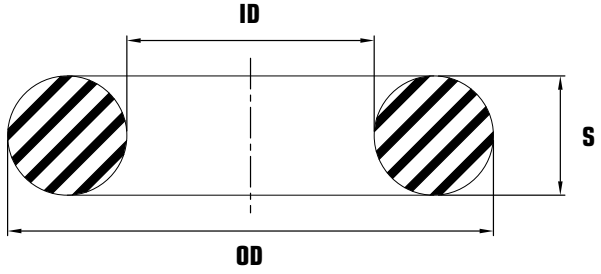
Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0098024/S*	**9.80**	14.60	2.40	2.49
MOR0118024/S*	**11.80**	16.60	2.40	2.51
MOR0138024/S*	**13.80**	18.60	2.40	2.52
MOR0148024/S*	**14.80**	19.60	2.40	2.53
MOR0158024/S*	**15.80**	20.60	2.40	2.57
MOR0178024/S*	**17.80**	22.60	2.40	2.59
MOR0198024/S*	**19.80**	24.60	2.40	2.60
MOR0208024/S*	**20.80**	25.60	2.40	2.64
MOR0218035/S*	**21.80**	28.80	3.50	2.72
MOR0247035/S*	**24.70**	31.70	3.50	2.77
MOR0277035/S*	**27.70**	34.70	3.50	2.82
MOR0297035/S*	**29.70**	36.80	3.50	2.83
MOR0317035/S*	**31.70**	38.70	3.50	2.86

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0347035/S*	**34.70**	41.70	3.50	2.93
MOR0377035/S*	**37.70**	44.70	3.50	2.96
MOR0397035/S*	**39.70**	46.70	3.50	3.02
MOR0417035/S*	**41.70**	48.70	3.50	3.04
MOR0447035/S*	**44.70**	51.70	3.50	3.13
MOR0477035/S*	**47.70**	54.70	3.50	3.19
MOR0497035/S*	**49.70**	56.70	3.50	3.26
MOR0544031/S*	**54.40**	60.60	3.10	3.67
MOR0594031/S*	**59.40**	65.60	3.10	3.02
MOR0646057/S*	**64.60**	76.00	5.70	4.72
MOR0694031/S*	**69.40**	75.60	3.10	3.79
MOR1144031/S*	**114.40**	120.60	3.10	3.86
MOR1643057/S*	**164.30**	175.70	5.70	26.23

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Materials	Temperature Range
Fluorocarbon	-13°F to +428°F (-25°C to +220°C)



O'Rings are toroidal-shaped elastomeric seals used in a variety of applications.
Supplied in 70 durometer fluorocarbon material and in a wide range of available dimensions.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0030010/V*	**3.00**	5.00	1.00	0.49
MOR0035010/V	**3.50**	5.50	1.00	1.06
MOR0040010/V	**4.00**	6.00	1.00	1.26
MOR0040020/V	**4.00**	8.00	2.00	2.34
MOR0049019/V*	**4.90**	8.70	1.90	1.20
MOR0050020/V	**5.00**	9.00	2.00	1.12
MOR0058019/V	**5.80**	9.60	1.90	2.95
MOR0060020/V	**6.00**	10.00	2.00	1.26
MOR0070020/V	**7.00**	11.00	2.00	1.37
MOR0071016/V	**7.10**	10.30	1.60	1.08
MOR0072019/V*	**7.20**	11.00	1.90	1.20
MOR0073024/V*	**7.30**	12.10	2.40	1.64
MOR0080020/V	**8.00**	12.00	2.00	1.44
MOR0083024/V	**8.30**	13.10	2.40	1.52
MOR0089019/V*	**8.90**	12.70	1.90	1.21
MOR0090020/V	**9.00**	13.00	2.00	1.52
MOR0096024/V*	**9.60**	14.40	2.40	2.04
MOR0100015/V	**10.00**	13.00	1.50	0.83
MOR0100020/V	**10.00**	14.00	2.00	1.56
MOR0100025/V*	**10.00**	15.00	2.50	1.99
MOR0100030/V	**10.00**	16.00	3.00	2.53
MOR0108024/V*	**10.80**	15.60	2.40	2.15

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0110020/V	**11.00**	15.00	2.00	1.64
MOR0120020/V	**12.00**	16.00	2.00	1.71
MOR0120030/V	**12.00**	18.00	3.00	2.76
MOR0123024/V*	**12.30**	17.10	2.40	2.19
MOR0130010/V	**13.05**	15.11	1.03	1.40
MOR0130020/V	**13.00**	17.00	2.00	1.94
MOR0130025/V*	**13.00**	18.00	2.50	2.32
MOR0130030/V	**13.00**	19.00	3.00	2.82
MOR0140020/V	**14.00**	18.00	2.00	1.93
MOR0140030/V	**14.00**	20.00	3.00	3.20
MOR0148024/V*	**14.80**	19.60	2.40	3.38
MOR0150015/V	**15.00**	18.00	1.50	0.42
MOR0150020/V	**15.00**	19.00	2.00	2.12
MOR0150025/V*	**15.00**	20.00	2.50	2.52
MOR0158024/V	**15.80**	20.60	2.40	3.43
MOR0160015/V	**16.00**	19.00	1.50	1.55
MOR0160020/V	**16.00**	20.00	2.00	2.17
MOR0160025/V*	**16.00**	21.00	2.50	2.66
MOR0160030/V	**16.00**	22.00	3.00	3.00
MOR0160050/V*	**16.00**	26.00	5.00	8.87
MOR0170020/V	**17.00**	21.00	2.00	2.23
MOR0178024/V*	**17.80**	22.60	2.40	3.52

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

O'Rings - FPM 70

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0180015/V	**18.00**	21.00	1.50	1.37
MOR0180030/V	**18.00**	24.00	3.00	3.20
MOR0180040/V*	**18.00**	26.00	4.00	5.91
MOR0190025/V	**19.00**	24.00	2.50	2.48
MOR0190030/V	**19.00**	25.00	3.00	3.34
MOR0192030/V	**19.20**	25.20	3.00	3.50
MOR0195030/V*	**19.50**	25.50	3.00	3.35
MOR0198024/V*	**19.80**	24.60	2.40	3.60
MOR0200015/V*	**20.00**	23.00	1.50	1.89
MOR0200020/V	**20.00**	24.00	2.00	2.53
MOR0200025/V	**20.00**	25.00	2.50	2.95
MOR0200040/V*	**20.00**	28.00	4.00	6.21
MOR0210030/V*	**21.00**	27.00	3.00	3.92
MOR0220015/V	**22.00**	25.00	1.50	1.71
MOR0220020/V	**22.00**	26.00	2.00	2.73
MOR0220025/V*	**22.00**	27.00	2.50	3.35
MOR0220030/V	**22.00**	28.00	3.00	3.73
MOR0220040/V*	**22.00**	30.00	4.00	6.35
MOR0222026/V	**22.23**	27.47	2.62	6.70
MOR0222030/V*	**22.20**	28.20	3.00	3.77
MOR0237035/V	**23.70**	30.70	3.50	9.48
MOR0240020/V	**24.00**	28.00	2.00	2.76
MOR0240030/V	**24.00**	30.00	3.00	3.92
MOR0240040/V	**24.00**	32.00	4.00	6.77
MOR0250025/V	**25.00**	30.00	2.50	3.63
MOR0250040/V	**25.00**	33.00	4.00	9.10
MOR0250050/V*	**25.00**	35.00	5.00	8.56
MOR0257035/V*	**25.70**	32.70	3.50	3.10
MOR0260030/V	**26.00**	32.00	3.00	3.38
MOR0262030/V*	**26.20**	32.20	3.00	4.17
MOR0277035/V	**27.70**	34.70	3.50	9.56
MOR0286080/V*	**28.69**	44.69	8.00	47.31
MOR0290035/V	**29.00**	35.00	3.00	4.02
MOR0297035/V*	**29.70**	36.70	3.50	9.71
MOR0300030/V	**30.00**	36.00	3.00	4.70
MOR0300040/V	**30.00**	38.00	4.00	8.08
MOR0300050/V*	**30.00**	40.00	5.00	10.12
MOR0310045/V	**31.00**	40.00	4.50	22.13
MOR0317035/V*	**31.70**	38.70	3.50	9.88
MOR0320050/V*	**32.00**	42.00	5.00	10.34
MOR0340030/V	**34.00**	40.00	3.00	5.52
MOR0340040/V	**34.00**	42.00	4.00	8.86
MOR0347035/V*	**34.70**	41.70	3.50	10.11
MOR0350025/V	**35.00**	40.00	2.50	1.73
MOR0350050/V*	**35.00**	45.00	5.00	13.62
MOR0360040/V	**36.00**	44.00	4.00	9.10

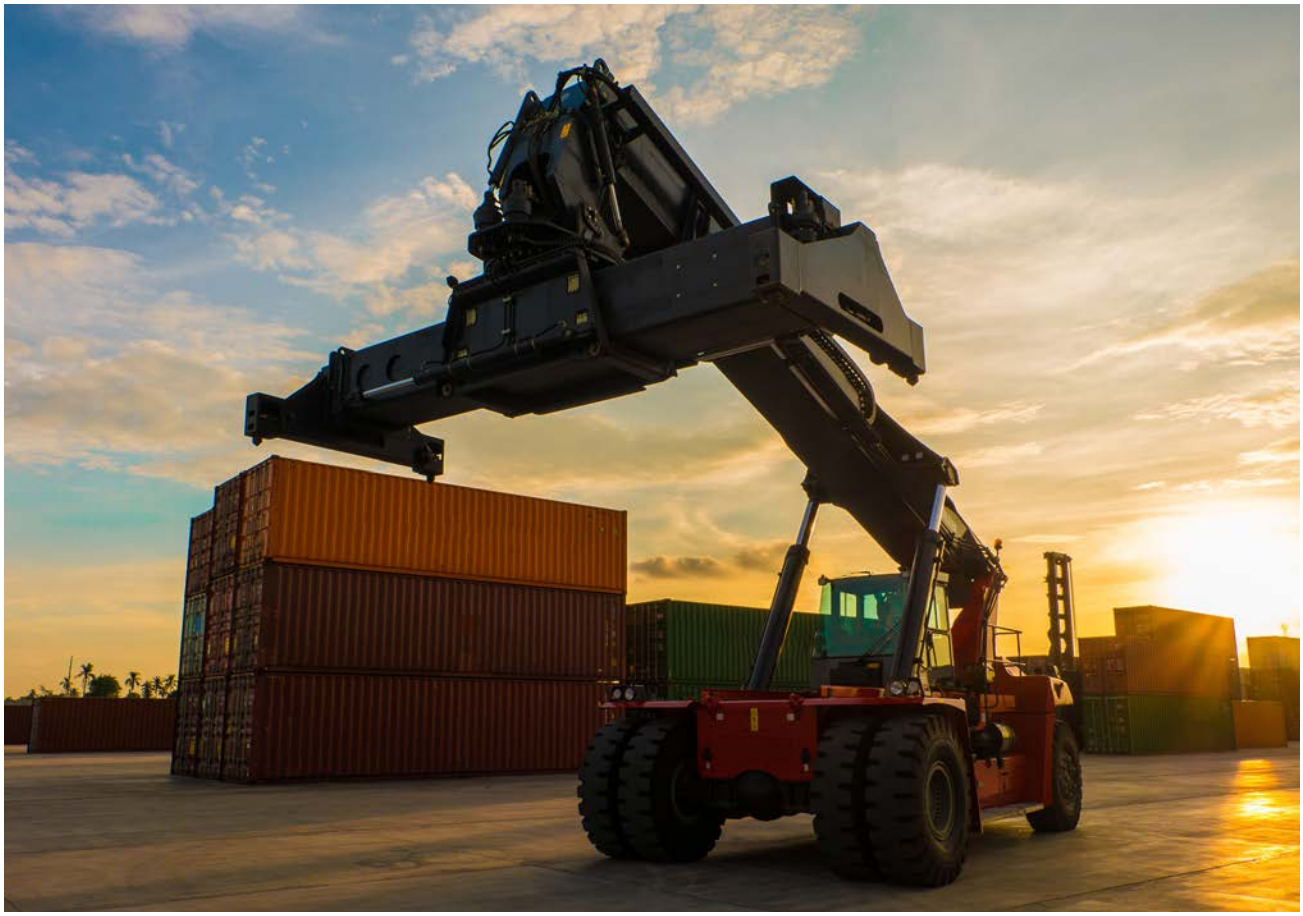
Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0370040/V	**37.00**	45.00	4.00	3.44
MOR0377035/V*	**37.70**	44.70	3.50	10.38
MOR0390015/V*	**39.00**	42.00	1.50	2.13
MOR0390030/V	**39.00**	45.00	3.00	6.39
MOR0400025/V	**40.00**	45.00	2.50	2.00
MOR0400040/V	**40.00**	48.00	4.00	9.12
MOR0417035/V*	**41.70**	48.70	3.50	10.61
MOR0420030/V	**42.00**	48.00	3.00	2.67
MOR0425040/V*	**42.50**	50.50	4.00	9.69
MOR0430025/V*	**43.00**	48.00	2.50	6.15
MOR0447035/V	**44.70**	51.70	3.50	10.76
MOR0450020/V	**45.00**	49.00	2.00	7.55
MOR0450035/V	**45.00**	52.00	3.50	10.80
MOR0450040/V	**45.00**	53.00	4.00	10.41
MOR0470025/V	**47.00**	52.00	2.50	2.55
MOR0470040/V	**47.00**	55.00	4.00	12.66
MOR0477035/V*	**47.70**	54.70	3.50	11.08
MOR0495030/V	**49.50**	55.50	3.00	7.47
MOR0497035/V*	**49.70**	56.70	3.50	11.09
MOR0500030/V	**50.00**	56.00	3.00	7.72
MOR0500040/V	**50.00**	58.00	4.00	12.83
MOR0544031/V*	**54.40**	60.60	3.10	11.64
MOR0550030/V	**55.00**	61.00	3.00	7.91
MOR0560030/V	**56.00**	62.00	3.00	8.59
MOR0570020/V*	**57.00**	61.00	2.00	6.36
MOR0570025/V*	**57.00**	62.00	2.50	6.41
MOR0594031/V	**59.40**	65.60	3.10	11.91
MOR0597057/V*	**59.70**	71.10	5.70	26.80
MOR0620015/V*	**62.00**	65.00	1.50	4.47
MOR0630030/V	**62.00**	68.00	3.00	9.11
MOR0644031/V*	**64.40**	70.60	3.10	13.86
MOR0645030/V*	**64.50**	70.50	3.00	9.31
MOR0694031/V*	**69.40**	75.60	3.10	13.86
MOR0710030/V	**71.00**	77.00	3.00	10.79
MOR0714035/V*	**71.44**	78.50	3.53	14.86
MOR0740035/V	**74.00**	81.00	3.50	17.59
MOR0760030/V*	**76.00**	82.00	3.00	11.11
MOR0780040/V*	**78.00**	86.00	4.00	13.23
MOR0790030/V*	**79.00**	85.00	3.00	11.94
MOR0800040/V*	**80.00**	88.00	4.00	14.64
MOR0850040/V	**85.00**	93.00	4.00	14.88
MOR0893057/V*	**89.30**	100.70	5.70	14.49
MOR0900020/V	**90.00**	94.00	2.00	8.13
MOR0924026/V*	**92.40**	97.65	2.62	8.43
MOR0995030/V	**99.50**	105.50	3.00	15.80
MOR1000045/V*	**100.00**	109.00	4.50	51.87

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Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1095030/V*	**109.50**	115.30	3.00	16.09
MOR1100040/V*	**110.00**	118.00	4.00	18.28
MOR1180035/V*	**118.00**	125.00	3.50	26.50
MOR1195030/V*	**119.50**	125.50	3.00	16.62
MOR1245030/V	**124.50**	130.50	3.00	17.14
MOR1340030/V*	**134.00**	140.00	3.00	23.32
MOR1394031/V	**139.40**	145.60	3.10	23.50
MOR1445030/V*	**144.50**	150.50	3.00	23.91
MOR1500050/V*	**150.00**	160.00	5.00	45.18
MOR1530030/V*	**153.00**	159.00	3.00	24.51
MOR1543024/V*	**154.30**	159.10	2.40	19.86
MOR1550040/V*	**155.00**	163.00	4.00	18.61
MOR1643057/V*	**164.30**	175.70	5.70	42.97
MOR1693057/V	**169.30**	180.70	5.70	43.50
MOR1720040/V	**172.00**	180.00	4.00	37.80
MOR1740030/V	**174.00**	180.00	3.00	31.50
MOR1793057/V*	**179.30**	190.70	5.70	43.50

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1800040/V	**180.00**	188.00	4.00	19.11
MOR1893057/V	**189.30**	200.70	5.70	77.31
MOR1900040/V*	**190.00**	198.00	4.00	27.98
MOR2095084/V*	**209.50**	226.30	8.40	91.59
MOR2100070/V*	**210.00**	224.00	7.00	137.03
MOR2193057/V*	**219.30**	230.70	5.70	63.36
MOR2245084/V*	**224.50**	241.30	8.40	107.33
MOR2345084/V*	**234.50**	251.30	8.40	126.98
MOR2491084/V*	**249.10**	265.90	8.40	142.24
MOR2580070/V*	**258.00**	272.00	7.00	145.27
MOR2645084/V*	**264.50**	281.30	8.40	186.08
MOR2700060/V	**270.00**	282.00	6.00	66.83
MOR2845084/V*	**284.50**	301.30	8.40	200.03
MOR2893057/V*	**289.30**	300.70	5.70	111.07
MOR3100050/V	**310.00**	320.00	5.00	145.76
MOR3295084/V*	**329.50**	346.30	8.40	170.84
MOR9850353/V*	**985.00**	992.06	3.53	431.30

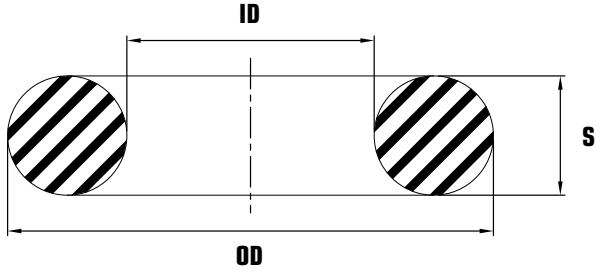
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



O'Rings - FPM 90 - Metric



Standard Material	Temperature Range
Fluorocarbon	-13°F /+428°F (-25°C /+220°C)



O'Rings are toroidal-shaped elastomeric seals used in a variety of applications.
Supplied in 90 Shore A hardness fluorocarbon material and in a wide range of available dimensions.

Alternate Materials: For applications that may require an alternate material.
please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR0078019/V90	**7.80**	11.60	1.90	1.97
MOR0093022/V90*	**9.30**	13.70	2.20	1.97
MOR0098019/V90*	**9.80**	13.60	1.90	2.14
MOR0100020/V90*	**10.00**	14.00	2.00	1.70
MOR0105020/V90*	**10.50**	14.50	2.00	1.94
MOR0108024/V90	**10.80**	15.60	2.40	2.12
MOR0123024/V90	**12.30**	17.10	2.40	2.18
MOR0178024/V90*	**17.80**	22.60	2.40	2.32
MOR0244031/V90	**24.40**	30.60	3.10	2.98
MOR0307035/V90	**30.70**	37.70	3.50	4.34
MOR0425040/V90*	**42.50**	50.50	4.00	7.15
MOR0444031/V90	**44.40**	50.60	3.10	4.48
MOR0596057/V90*	**59.60**	71.00	5.70	24.83
MOR0744031/V90	**74.40**	80.60	3.10	5.14
MOR1196057/V90-LC*	**119.60**	131.00	5.70	31.53
MOR1344031/V90-LC*	**134.40**	140.60	3.10	36.79
MOR1350050/V90*	**135.00**	145.00	5.00	24.94
MOR1446057/V90-LC	**144.60**	156.00	5.70	39.42
MOR1643057/V90-LC*	**164.30**	175.70	5.70	42.04
MOR1793057/V90-LC*	**179.30**	190.70	5.70	44.14
MOR1893057/V90B*	**189.30**	200.70	5.70	46.96
MOR1893057/V90-LC	**189.30**	200.70	5.70	42.04

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
MOR1993057/V90-LC	**199.30**	210.70	5.70	42.56
MOR1995084/V90-LC*	**199.50**	216.30	8.40	56.01
MOR2095084/V90-LC*	**209.50**	226.30	8.40	57.81
MOR2143057/V90-LC	**214.30**	225.70	5.70	59.13
MOR2145084/V90-LC	**214.50**	231.30	8.40	61.43
MOR2193057/V90*	**219.30**	230.70	5.70	51.47
MOR2193057/V90-LC	**219.30**	230.70	5.70	59.13
MOR2245084/V90-LC*	**224.50**	241.30	8.40	70.95
MOR2293057/V90-LC	**229.30**	240.70	5.70	65.69
MOR2393057/V90-LC	**239.30**	250.70	5.70	74.63
MOR2445084/V90-LC*	**244.50**	261.30	8.40	110.36
MOR2493057/V90-LC	**249.30**	260.70	5.70	85.40
MOR2593057/V90-LC	**259.30**	270.70	5.70	104.35
MOR2645084/V90-LC	**264.50**	281.30	8.40	111.54
MOR2693057/V90-LC	**269.30**	280.70	5.70	107.07
MOR2893057/V90-LC*	**289.30**	300.70	5.70	73.57
MOR2945084/V90-LC	**294.50**	311.30	8.40	126.12
MOR3195084/V90-LC	**319.50**	336.30	8.40	126.12
MOR3435084/V90*	**343.50**	360.30	8.40	514.40
MOR3445084/V90-LC*	**344.50**	361.30	8.40	170.79
MOR3995084/V90-LC	**399.50**	416.30	8.40	206.70

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Standard Material	Temperature Range
Nitrile	-30°F to +250°F (-34°C to +121°C)
Fluorocarbon	-15°F to +400°F (-26°C to +205°C)
Neoprene	-31°F to +212°F (-35°C to +100°C)
Silicone	-70°F to + 450°F (-57°C to + 232°C)

Metric **O'Ring cord** is supplied as a continuously extruded profile. **O'Ring** cord can be used to manufacture custom **O'Rings** when no standard size is available. A wide variety of cross-sections and sizes are available

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

	Material	Prefix	Cord Cross Section											
			2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.70	6.00	7.00	8.40	12.00
●	NBR 70A	MOC/N	1.36	1.83	2.21	2.04	2.45	2.50	3.51	4.80	4.90	3.63	5.70	
●	FLUOROCARBON	MOC/V							8.37					
●	NEOPRENE	MOC/C												17.30
●	SILICONE	MOC/S							4.75					
Increments of 1 ft														

O'Rings kits and accessories



COMPACT SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-C-JIS70	**JAPANESE STD. - NBR 70**	396	30	53.82
ORK-C-JIS90	**JAPANESE STD. - NBR 90**	396	30	87.45
ORK-C-N70M	**EUROPEAN STD. - NBR70**	401	34	67.67
ORK-C-N90M	**EUROPEAN STD. - NBR 90**	394	32	69.25
ORK-C-V75M*	**EUROPEAN STD. - FPM 75**	401	34	417.40



INDUSTRIAL SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-IND-N70M	**EUROPEEN STD. - NBR 70**	500	36	52.36
ORK-IND-N90M	**EUROPEEN STD. - NBR 90**	500	36	128.78
ORK-IND-V75M	**EUROPEEN STD. - FPM 75**	500	36	440.13
ORK-IND-JIS70	**JAPANESE STD. - NBR 70**	380	36	66.60
ORK-IND-JIS90	**JAPANESE STD. - NBR 90**	380	36	126.89



BOX SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-BOXC-N70*	**EUROPEAN STD. - NBR 70**	425	30	55.51
ORK-BOXC-N90	**EUROPEAN STD. - NBR 90**	425	30	155.70
ORK-BOXD-N70*	**EUROPEAN STD. - NBR 70**	285	24	172.28
ORK-BOXD-N90*	**EUROPEAN STD. - NBR 90**	285	24	235.21

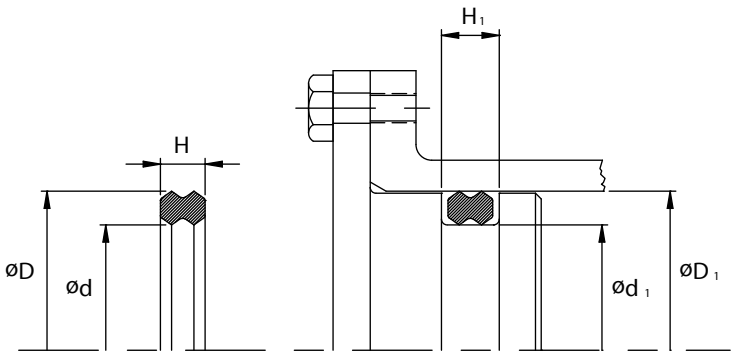


OSK SERIES

Ref. Number	Material	Total Qty	Sizes	$
OSK100M-NBR	**O'RING SPLICING KIT - NBR 70**			46.52
ORK100M-FPM	**O'RING SPLICING KIT - FPM 75**			191.07

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range	Pressure Range
Polyurethane	Low Extreme	
	-65°F (-54°C)	N/A
	Normal Operation	
	-40°F à +250°F (-40°C à +121°F)	≤5000 psi (≤345 bar)
	High Extreme	
	+265°F (+129°C)	≤10 000 psi (≤689 bar)

This one-piece static seal easily retrofits an **O'Ring/Back-up ring** assembly on standard sealing arrangements. The compact design allows for easy installation. improved extrusion resistance and stability. and avoids costly errors due to pinching or improper seating during the assembly process.

Alternate Materials : For applications that may require an alternate material, please contact our customer service department. Other sizes available on request.

GAP DIMENSION "G"			
In order to avoid extrusion, the maximum pressure allowed depends on the fitting gap :			
Gap	**Pressure**	**Gap**	**Pressure**
1.20 mm	≤725 psi (≤50 bar)	0.25 mm	≤4350 psi (≤300 bar)
0.80 mm	≤1450 psi (≤100 bar)	0.17 mm	≤5800 psi (≤400 bar)
0.40 mm	≤2900 psi (≤200 bar)	0.10 mm	≤7250 psi (≤500 bar)
NB. For the Gap calculation, it is necessary to consider the elastic deformation of metal elements under pressure loads.			

Ref.Number	Bore Diameter		Housing Dimensions				$
	D1	Tol.	d1	Tol.	H1	Tol.	
HSM006004024*	**6.00**	+.018 - .000	4.60	+.000 - .030	2.40	+.200 - .000	7.49
HSM010007036*	**10.00**	+.022 - .000	7.60	+.000 - .036	3.60		7.53
HSM011008026*	**11.00**	+.027 - .000	8.60		2.60		7.58

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Head seals - AU 92A

Ref.Number	Bore Diameter		Housing Dimensions				$
	D1	Tol.	d1	Tol.	H1	Tol.	
HSM012009036*	**12.00**	+.027 -.000	9.60	+.000 -.036	3.60	+.200 -.000	7.64
HSM013015036*	**13.10**		15.50	+.000 -.043	3.60		7.75
HSM014009031*	**13.80**		9.20	+.000 -.036	3.10		7.79
HSM015012036*	**15.00**		12.60	+.000 -.043	3.60		7.80
HSM016013036*	**16.00**		13.60		3.60		7.84
HSM017012031*	**16.60**		12.00		3.10		7.91
HSM017014026*	**17.00**		14.60		2.60		7.96
HSM017014036*	**17.00**		14.00		3.60		7.99
HSM017015026*	**17.50**		15.10		2.60		8.00
HSM017015036*	**17.50**		15.10		3.60		8.03
HSM018014058*	**18.00**		14.00		5.80		8.09
HSM018015036*	**18.00**		15.60		3.60		8.09
HSM019015036*	**19.00**	+.033 -.000	15.60		3.60		8.11
HSM019015044*	**19.00**		15.60		4.40		8.15
HSM019016026*	**19.00**		16.60		2.60		8.19
HSM020016036*	**20.00**		16.60		3.60		8.21
HSM020016044*	**20.00**		16.60		4.40		8.26
HSM020016058*	**20.00**		16.00		5.80		8.32
HSM020017036*	**20.00**		17.60		3.60		8.38
HSM020017050*	**20.00**		17.20		5.00		8.41
HSM021017044*	**21.00**		17.60		4.40		8.44
HSM021018036*	**21.00**		18.60	+.000 -.052	3.60		8.46
HSM022018044*	**21.50**		18.10		4.40		8.49
HSM022019026*	**21.50**		19.10		2.60		8.50
HSM022019036*	**22.00**		19.60		3.60		8.52
HSM023019044*	**23.00**		19.60		4.40		8.51
HSM023020036*	**23.00**		20.60		3.60		8.51
HSM024020048*	**24.00**		20.00		4.80		8.55
HSM024021036*	**24.00**		21.60		3.60		8.60
HSM026022044*	**26.00**		22.00		4.40		8.62
HSM027022054*	**26.80**		22.00		5.40		8.64
HSM028023053*	**28.00**		23.80		5.30		8.66
HSM028025036*	**28.00**		25.60		3.60		8.68
HSM030025044*	**30.00**		25.10		4.40		8.70
HSM030025054*	**30.00**		25.40		5.40		8.72
HSM031026050*	**31.00**	+.039 -.000	26.40		5.00		8.72
HSM032027054*	**32.00**		27.40		5.40		8.74
HSM034028053*	**34.00**		28.40		5.30		8.76
HSM034031036*	**34.00**		31.10	+.000 -.062	3.60		8.78
HSM035030050*	**35.00**		30.00	+.000 -.052	5.00		8.86
HSM035030050-1*	**35.00**		30.40	+.000 -.062	5.00		8.88
HSM036032062*	**36.00**		32.00		6.20		8.95
HSM038032053*	**38.00**		32.40		5.30		9.15
HSM040035054*	**40.00**		35.20		5.40		9.22
HSM040035054-1*	**40.00**		35.40		5.40		9.26
HSM043037062*	**43.40**		37.80		6.20		9.32

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter		Housing Dimensions				$
	D1	Tol.	d1	Tol.	H1	Tol.	
HSM043038068*	**42.80**	+.039 -.000	38.00	+.000 -.062	6.80	+.200 -.000	9.41
HSM045035097*	**45.00**		35.80		9.70		9.45
HSM045040054	**45.00**		40.00		5.40		9.47
HSM050040097*	**50.00**		40.80		9.70		9.55
HSM050043056*	**50.00**		43.80		5.60		9.61
HSM050044062*	**50.00**		44.60		6.20		9.68
HSM050045039*	**50.00**		45.40		3.90		9.70
HSM050045054	**50.00**		45.40		5.40		9.73
HSM055049053*	**55.00**	+.046 -.000	49.90		5.30		10.00
HSM055049062*	**55.00**		49.60		6.20		10.01
HSM055050067*	**55.00**		50.00		6.70		10.08
HSM055051036*	**55.00**		51.00	+.000 -.074	3.60		10.12
HSM057052041*	**57.00**		52.20		4.10		10.18
HSM058050090*	**58.00**		50.00	+.000 - .062	9.00		10.20
HSM060050097*	**60.00**		50.80	+.000 -.074	9.70		10.24
HSM060054058*	**60.00**		54.40		5.80		10.28
HSM060054062*	**60.00**		54.60		6.20		10.32
HSM063053097*	**63.00**		53.80		9.70		10..38
HSM063056064*	**63.00**		56.60		6.40		10.45
HSM063057048*	**63.00**		57.40		4.80		10.58
HSM063057062*	**63.00**		57.60		6.20		10.60
HSM063058054*	**63.00**		58.40		5.40		10.54
HSM065059050	**65.00**		59.40		5.00		10.61
HSM065059062*	**65.00**		59.60		6.20		10.68
HSM065060050*	**65.00**		60.00		5.00		10.96
HSM068062050*	**68.00**		62.00		5.00		11.24
HSM070065039*	**69.60**		65.00		3.90		11.36
HSM070065050*	**70.00**		65.00		5.00		11.41
HSM070066062*	**70.00**		66.40		6.20		11.49
HSM072066050*	**72.00**		66.40		5.00		11.52
HSM074070050*	**73.50**		70.00		5.00		11.59
HSM075065097*	**75.00**		65.80		9.70		11.62
HSM075069053*	**75.00**		69.40		5.30		11.62
HSM075069062*	**75.00**		69.60		6.20		11.75
HSM075070038*	**74.60**		70.00		3.80		11.79
HSM077070062*	**77.00**		70.80		6.20		11.83
HSM077072048*	**76.60**		72.00		4.80		11.89
HSM078073050*	**78.00**		73.00		5.00		11.94
HSM080070090*	**80.00**		70.80		9.00		12.08
HSM080070097*	**80.00**		70.80		9.70		12.14
HSM080073064	**80.00**		73.60		6.40		12.17
HSM080073069*	**80.00**		73.80		6.90		12.43
HSM080074053*	**80.00**		74.40		5.30		12.07
HSM080075054*	**80.00**		75.50		5.40		12.24
HSM080076036*	**80.00**		76.00		3.60		12.39
HSM085079053*	**85.00**	+.054 - .000	79.40		5.30		25.50

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Head seals - AU 92A

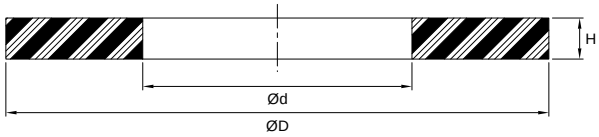
Ref.Number	Bore Diameter		Housing Dimensions				$
	D1	Tol.	d1	Tol.	H1	Tol.	
HSM085080039*	**85.10**	+.054 -.000	80.50	+.000 -.087	3.90	+.200 -.000	12.74
HSM090081090*	**90.00**		81.40		9.00		12.89
HSM090083065*	**90.00**		83.00		6.50		12.94
HSM090084048*	**90.00**		84.40		4.80		13.00
HSM093087053*	**93.00**		87.40		5.30		13.05
HSM095089062*	**95.00**		89.40		6.20		13.05
HSM097091048*	**97.00**		91.40		4.80		13.15
HSM100090097*	**100.00**		90.80		9.70		13.24
HSM100091086*	**100.00**		91.60		8.60		13.54
HSM100091090	**100.00**		91.40		9.00		13.58
HSM100093069*	**100.00**		93.80		6.90		13.61
HSM102095062*	**102.00**		95.80		6.20		13.79
HSM105096090*	**105.00**		96.40		9.00		13.97
HSM110100097*	**110.00**		100.80		9.70		14.54
HSM110101090*	**110.00**		101.40		9.00		14.82
HSM114107062*	**114.00**		107.80		6.20		15.24
HSM115106086*	**115.00**		106.60		8.60		15.30
HSM125115097*	**125.00**	+.063 -.000	115.80		9.70		18.63
HSM125116086*	**125.00**		116.60		8.60		19.25
HSM125116090*	**125.00**		116.40		9.00		19.74
HSM140128123*	**140.00**		128.40	+.000 -.100	12.30		20.99
HSM140130097*	**140.00**		130.80		9.70		21.68
HSM140131086*	**140.00**		131.60		8.60		22.87
HSM150138123*	**150.00**		138.40		12.30		23.77
HSM150140097*	**150.00**		140.80		9.70		24.93
HSM150141086*	**150.00**		141.60		8.60		25.45
HSM160148123	**160.00**		148.40		12.30		26.45
HSM160150097*	**160.00**		150.80		9.70		27.24
HSM165153123*	**165.00**		153.40		12.30		27.51
HSM165155097*	**165.00**		155.80		9.70		27.70
HSM165156086*	**165.00**		156.60		8.60		27.73
HSM170158123*	**170.00**		158.40		12.30		28.99
HSM170160097*	**170.00**		160.80		9.70		29.34
HSM180168123*	**180.00**		168.40		12.30		32.54
HSM180170097*	**180.00**		170.80		9.70		33.51
HSM180171086*	**180.00**		171.60		8.60		33.71
HSM190178123	**190.00**	+.072 -.000	178.40		12.30		35.60
HSM200188123*	**200.00**		188.40	+.000 -.115	12.30		37.01
HSM200190097*	**200.00**		190.80		9.70		39.99
HSM200191086*	**200.00**		191.60		8.60		39.98
HSM225213109*	**225.00**		213.00		10.90		45.60
HSM250238109*	**250.00**		238.00		10.90		49.80
HSM250238123*	**250.00**		238.40		12.30		58.60
HSM250240097*	**250.00**		240.80		9.70		65.90
HSM270258123*	**270.00**		258.40	+.000 -.130	12.30		75.45
HSM280268109*	**280.00**	+.081 - .000	268.00		10.90		89.99

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/T & ST/T - Back-up rings - Metric



Standard Material	Temperature Range
V.PTFE	-320°F to +450°F (-196°C to +232°C)



Back-up rings are auxiliary devices used in conjunction with standard seals such as O'Rings and U-Cup type seals. **SD/T & ST/T** rings are manufactured out of PTFE material, supplied split and solid version.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU003006012SD/T*	**3.00**	6.00	1.25	3.58
BU004007012SD/T*	**4.00**	7.00	1.25	3.58
BU005008012SD/T*	**5.00**	8.00	1.25	3.58
BU006009012SD/T*	**6.00**	9.00	1.25	3.58
BU007010012SD/T	**7.00**	10.00	1.25	3.58
BU008011012SD/T	**8.00**	11.00	1.25	3.58
BU009012012SD/T	**9.00**	12.00	1.25	3.58
BU010013012SD/T	**10.00**	13.00	1.25	3.58
BU010014012SD/T*	**10.00**	14.00	1.25	3.58
BU011015012SD/T	**11.00**	15.00	1.25	3.58
BU011014012ST/T	**11.20**	14.00	1.25	7.28
BU011015012SD/T-1*	**11.20**	15.20	1.25	5.01
BU012016012SD/T	**12.00**	16.00	1.25	3.58
BU012016012SD/T-1	**12.50**	16.50	1.25	3.58
BU014018012SD/T	**14.00**	18.00	1.25	3.58
BU015019012SD/T	**15.00**	19.00	1.25	3.58
BU016020012SD/T	**16.00**	20.00	1.25	3.58
BU018022012SD/T	**18.00**	22.00	1.25	3.58
BU020024012SD/T	**20.00**	24.00	1.25	3.58
BU021025012SD/T	**21.00**	25.00	1.25	3.58
BU022026012SD/T*	**22.00**	26.00	1.25	3.58
BU022028012SD/T	**22.00**	28.00	1.25	3.58

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
BU022028012SD/T-1*	**22.40**	28.40	1.25	4.93
BU024030012SD/T*	**24.00**	30.00	1.25	3.58
BU025030012SD/T	**25.00**	30.00	1.25	3.58
BU025031012SD/T*	**25.00**	31.00	1.25	3.58
BU025031012SD/T-1*	**25.50**	31.50	1.25	3.58
BU026030012SD/T*	**26.00**	30.00	1.25	10.58
BU026032012SD/T*	**26.00**	32.00	1.25	3.58
BU028034012SD/T	**28.00**	34.00	1.25	3.58
BU029035012SD/T	**29.00**	35.00	1.25	3.58
BU029035012SD/T-1*	**29.50**	35.50	1.25	3.58
BU030035012SD/T	**30.00**	35.00	1.25	3.58
BU030036012SD/T	**30.00**	36.00	1.25	3.58
BU031037012SD/T	**31.00**	37.00	1.25	3.58
BU031037012SD/T-1*	**31.50**	37.50	1.25	3.58
BU032038012ST/T*	**32.00**	38.00	1.25	3.14
BU032038012SD/T	**32.00**	38.00	1.25	3.98
BU033039012SD/T*	**33.00**	39.00	1.25	5.09
BU034040012SD/T	**34.00**	40.00	1.25	3.98
BU035040012SD/T	**35.00**	40.00	1.25	3.73
BU035041012SD/T	**35.00**	41.00	1.25	3.98
BU035045015SD/T-1*	**35.50**	45.00	1.50	6.31
BU035041012SD/T-1*	**35.50**	41.50	1.25	4.26

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/T & ST/T series - V.PTFE

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU036042012SD/T	**36.00**	42.00	1.25	4.26
BU038044012SD/T	**38.00**	44.00	1.25	4.26
BU039045012SD/T	**39.00**	45.00	1.25	4.56
BU040045012SD/T	**40.00**	45.00	1.25	4.10
BU040046012SD/T	**40.00**	46.00	1.25	4.56
BU040050019SD/T	**40.00**	50.00	1.90	7.37
BU041047012SD/T	**41.00**	47.00	1.25	4.56
BU042048012SD/T	**42.00**	48.00	1.25	4.56
BU044050012SD/T	**44.00**	50.00	1.25	5.13
BU045050012SD/T	**45.00**	50.00	1.25	4.06
BU045051012SD/T	**45.00**	51.00	1.25	5.13
BU046052012SD/T	**46.00**	52.00	1.25	5.13
BU048054012SD/T	**48.00**	54.00	1.25	5.13
BU048058019SD/T	**48.00**	58.00	1.90	8.19
BU049055012SD/T	**49.00**	55.00	1.25	5.13
BU050055012SD/T	**50.00**	55.00	1.25	6.67
BU050060012SD/T*	**50.00**	60.00	1.25	5.13
BU050060019SD/T	**50.00**	60.00	1.90	8.19
BU052062019SD/T*	**52.00**	62.00	1.90	8.19
BU053063019SD/T	**53.00**	63.00	1.90	8.19
BU054060012SD/T*	**54.00**	60.00	1.25	17.63
BU055060012SD/T	**55.00**	60.00	1.25	6.36
BU055065015SD/T	**55.00**	65.00	1.50	12.06
BU055065019SD/T	**55.00**	65.00	1.90	8.19
BU056066019SD/T*	**56.00**	66.00	1.90	8.90
BU058063012SD/T*	**58.00**	63.00	1.25	6.75
BU058068019SD/T	**58.00**	68.00	1.90	8.90
BU060065012SD/T	**60.00**	65.00	1.25	6.77
BU060070019SD/T	**60.00**	70.00	1.90	8.90
BU060070019SD/T-BR40*	**60.00**	70.00	1.90	10.99
BU060070019ST/T-BR40*	**60.00**	70.00	1.90	11.09
BU062072019SD/T*	**62.00**	72.00	1.90	8.90
BU063073019SD/T	**63.00**	73.00	1.90	9.12
BU065070012SD/T	**65.00**	70.00	1.25	7.70
BU065075019SD/T	**65.00**	75.00	1.90	9.53
BU065075030SD/T*	**65.00**	75.00	3.00	11.16
BU065075030ST/T*	**65.00**	75.00	3.00	11.16
BU067077019SD/T*	**67.00**	77.00	1.90	9.97
BU070075012SD/T	**70.00**	75.00	1.25	10.38
BU070080019SD/T	**70.00**	80.00	1.90	9.20
BU070080019SD/T-BR40*	**70.00**	80.00	1.90	12.98
BU070080019ST/T-BR40	**70.00**	80.00	1.90	11.79
BU071081019SD/T	**71.00**	81.00	1.90	9.20
BU075080012SD/T	**75.00**	80.00	1.25	10.62
BU075085019SD/T	**75.00**	85.00	1.90	11.06
BU076090030ST/T	**76.00**	90.00	3.00	22.25

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU080085012SD/T	**80.00**	85.00	1.25	11.86
BU080090019SD/T	**80.00**	90.00	1.90	11.89
BU080090019SD/T-BR40*	**80.00**	90.00	1.90	12.98
BU080090019ST/T-BR40*	**80.00**	90.00	1.90	12.64
BU081088016SD/T*	**81.00**	88.00	1.60	12.78
BU085090012SD/T	**85.00**	90.00	1.25	12.00
BU085095019SD/T	**85.00**	95.00	1.90	12.20
BU086100030ST/T	**86.00**	100.00	3.00	29.98
BU090095012SD/T	**90.00**	95.00	1.25	13.71
BU090100019SD/T	**90.00**	100.00	1.90	13.75
BU090100019SD/T-BR40*	**90.00**	100.00	1.90	14.64
BU090100019ST/T-BR40*	**90.00**	100.00	1.90	14.18
BU095100012SD/T	**95.00**	100.00	1.25	14.07
BU095105019SD/T	**95.00**	105.00	1.90	14.15
BU096110030ST/T*	**96.00**	110.00	3.00	22.11
BU100105012SD/T	**100.00**	105.00	1.25	14.54
BU100110019SD/T	**100.00**	110.00	1.90	14.54
BU102112019SD/T	**102.00**	112.00	1.90	14.54
BU105110012SD/T	**105.00**	110.00	1.25	15.01
BU105115019SD/T	**105.00**	115.00	1.90	15.69
BU106120030ST/T	**106.00**	120.00	3.00	22.31
BU110115015SD/T-1	**109.90**	114.70	1.50	22.92
BU110115012SD/T	**110.00**	115.00	1.25	15.01
BU110118021SD/T*	**110.00**	118.00	2.10	22.04
BU110119015SD/T*	**110.00**	119.00	1.50	30.27
BU110120019SD/T	**110.00**	120.00	1.90	15.95
BU112120019SD/T	**112.00**	120.00	1.90	15.95
BU112122019SD/T	**112.00**	122.00	1.90	16.04
BU114120017SD/T*	**114.00**	120.00	1.70	20.92
BU114125017SD/T*	**114.00**	125.00	1.70	18.21
BU115120012SD/T	**115.00**	120.00	1.25	15.28
BU115125019SD/T	**115.00**	125.00	1.90	16.39
BU120125012SD/T	**120.00**	125.00	1.25	15.28
BU120130017SD/T-GF15*	**120.00**	130.00	1.70	32.60
BU120130019SD/T	**120.00**	130.00	1.90	17.16
BU120130019SD/T-GF15*	**120.00**	130.00	1.90	34.23
BU122130016SD/T*	**122.00**	130.00	1.60	18.59
BU125130012SD/T	**125.00**	130.00	1.25	15.50
BU125135019SD/T	**125.00**	135.00	1.90	17.93
BU128133012SD/T	**128.00**	133.00	1.25	15.70
BU130135012SD/T	**130.00**	135.00	1.25	15.70
BU130140019SD/T	**130.00**	140.00	1.90	18.27
BU132142019SD/T*	**132.00**	142.00	1.90	18.27
BU135140012SD/T	**135.00**	140.00	1.25	16.80
BU135140012SD/T-GF15*	**135.00**	140.00	1.25	30.16
BU135145019SD/T	**135.00**	145.00	1.90	19.03

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU140145012SD/T	**140.00**	145.00	1.25	18.43
BU140150019SD/T	**140.00**	150.00	1.90	19.85
BU145150012SD/T	**145.00**	150.00	1.25	21.14
BU145155019SD/T	**145.00**	155.00	1.90	20.50
BU145155019SD/T-GF15*	**145.00**	155.00	1.90	37.89
BU145160030ST/T*	**145.00**	160.00	3.00	54.09
BU150160019SD/T	**150.00**	160.00	1.90	20.93
BU150165027SD/T*	**150.00**	165.00	2.75	23.61
BU155165019SD/T	**155.00**	165.00	1.90	21.61
BU155170027SD/T*	**155.00**	170.00	2.75	24.27
BU160170019SD/T	**160.00**	170.00	1.90	23.12
BU160175027SD/T	**160.00**	175.00	2.75	24.89
BU165175019SD/T	**165.00**	175.00	1.90	23.12
BU165175019SD/T-GF15*	**165.00**	175.00	1.90	45.76
BU165180027SD/T*	**165.00**	180.00	2.75	40.89
BU170178017SD/T	**170.00**	178.00	1.70	30.90
BU170178019SD/T*	**170.00**	178.00	1.90	44.25
BU170180019SD/T	**170.00**	180.00	1.90	22.81
BU170185027SD/T*	**170.00**	185.00	2.75	27.29
BU175185019SD/T	**175.00**	185.00	1.90	23.51
BU175190027SD/T*	**175.00**	190.00	2.75	28.16
BU176187020SD/T*	**176.00**	187.00	2.00	47.40
BU180205040ST/T	**180.00**	205.00	4.00	162.21
BU180190017SD/T*	**180.00**	190.00	1.70	26.10
BU180190019SD/T	**180.00**	190.00	1.90	25.36
BU180190019SD/T-GF15*	**180.00**	190.00	1.90	46.48
BU180195027SD/T*	**180.00**	195.00	2.75	28.82
BU185195019SD/T*	**185.00**	195.00	1.90	25.74
BU185200027SD/T*	**185.00**	200.00	2.75	29.71
BU190200019SD/T	**190.00**	200.00	1.90	26.50
BU190200019SD/T-GF15	**190.00**	200.00	1.90	61.41
BU190205027SD/T*	**190.00**	205.00	2.75	30.34
BU195205019SD/T	**195.00**	205.00	1.90	27.22
BU195210027SD/T*	**195.00**	210.00	2.75	31.22
BU197208025SD/T*	**197.00**	208.00	2.50	50.50
BU200208017SD/T	**200.00**	208.00	1.70	39.03
BU200210019SD/T	**200.00**	210.00	1.90	27.57
BU200210019SD/T-GF15*	**200.00**	210.00	1.90	62.66
BU200215027SD/T	**200.00**	215.00	2.75	31.90
BU200215027SD/T-GF15*	**200.00**	215.00	2.75	50.79
BU205215019SD/T	**205.00**	215.00	1.90	28.01
BU205215025SD/T*	**205.00**	215.00	2.50	53.52
BU205220027SD/T	**205.00**	220.00	2.75	31.90
BU209224027SD/T*	**209.00**	224.00	2.75	31.90
BU210220019SD/T	**210.00**	220.00	1.90	29.14
BU210221027SD/T*	**210.00**	221.00	2.70	59.21

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU210222025SD/T	**210.00**	222.00	2.50	55.26
BU210225027SD/T*	**210.00**	225.00	2.75	33.42
BU210225027SD/T-GF15*	**210.00**	225.00	2.75	64.17
BU215225019SD/T	**215.00**	225.00	1.90	30.27
BU215225019SD/T-GF15*	**215.00**	225.00	1.90	56.51
BU215230027SD/T*	**215.00**	230.00	2.75	34.61
BU215230027SD/T-GF15	**215.00**	230.00	2.75	38.44
BU220230017SD/T-GF15*	**220.00**	230.00	1.70	34.16
BU220230019SD/T	**220.00**	230.00	1.90	30.54
BU220230019SD/T-GF15	**220.00**	230.00	1.90	43.04
BU225235019SD/T	**225.00**	235.00	1.90	30.54
BU225240027SD/T*	**225.00**	240.00	2.75	66.62
BU225240027SD/T-GF15*	**225.00**	240.00	2.75	66.62
BU225245050ST/T	**225.80**	245.00	5.00	234.20
BU230240019SD/T*	**230.00**	240.00	1.90	31.42
BU230240025SD/T	**230.00**	240.00	2.50	45.64
BU230240025SD/T-GF15	**230.00**	240.00	2.50	48.51
BU230245027SD/T*	**230.00**	245.00	2.75	36.96
BU235245019SD/T	**235.00**	245.00	1.90	31.75
BU235245019SD/T-GF15*	**235.00**	245.00	1.90	65.09
BU235250027SD/T	**235.00**	250.00	2.75	37.55
BU237246017SD/T*	**237.00**	246.00	1.70	59.88
BU237248025SD/T*	**237.00**	248.00	2.50	71.44
BU238250024SD/T	**238.00**	250.00	2.40	104.11
BU240250019SD/T	**240.00**	250.00	1.90	33.23
BU240250019SD/T-GF15	**240.00**	250.00	1.90	57.13
BU240255027SD/T*	**240.00**	255.00	2.75	38.22
BU245255019SD/T*	**245.00**	255.00	1.90	33.55
BU245260027SD/T	**245.00**	260.00	2.75	39.09
BU245260027SD/T-GF15*	**245.00**	260.00	2.75	59.32
BU250260017SD/T-1*	**250.00**	260.00	1.70	68.64
BU250260019SD/T	**250.00**	260.00	1.90	34.73
BU250260019SD/T-GF15*	**250.00**	260.00	1.90	59.48
BU250262020SD/T*	**250.00**	262.00	2.00	57.99
BU250265027SD/T*	**250.00**	265.00	2.75	40.04
BU255265019SD/T*	**255.00**	265.00	1.90	33.55
BU255270027SD/T*	**255.00**	270.00	2.75	40.61
BU259271027SD/T*	**259.00**	271.00	2.70	112.08
BU260270019SD/T*	**260.00**	270.00	1.90	36.17
BU260270025SD/T-GF15	**260.00**	270.00	2.50	61.84
BU260275027SD/T*	**260.00**	275.00	2.75	41.77
BU265275019SD/T*	**265.00**	275.00	1.90	36.35
BU265280027SD/T	**265.00**	280.00	2.75	42.15
BU265280027SD/T-GF15	**265.00**	280.00	2.75	84.63
BU270280019SD/T	**270.00**	280.00	1.90	39.78
BU270280019SD/T-GF15*	**270.00**	280.00	1.90	87.32

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/T & ST/T series - V.PTFE

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU270283025SD/T*	**270.00**	283.00	2.50	79.83
BU270285027SD/T	**270.00**	285.00	2.75	43.39
BU275285019SD/T*	**275.00**	285.00	1.90	42.53
BU275290027SD/T*	**275.00**	290.00	2.75	43.67
BU280290019SD/T*	**280.00**	290.00	1.90	44.02
BU280295027SD/T*	**280.00**	295.00	2.75	44.91
BU285295019SD/T*	**285.00**	295.00	1.90	44.02
BU285298027SD/T*	**285.00**	298.00	2.70	191.94
BU285300027SD/T*	**285.00**	300.00	2.75	44.98
BU290300019SD/T	**290.00**	300.00	1.90	41.73
BU290300019SD/T-GF15*	**290.00**	300.00	1.90	87.19
BU290305027SD/T*	**290.00**	305.00	2.75	46.53
BU295305019SD/T*	**295.00**	305.00	1.90	44.02
BU295310027SD/T*	**295.00**	310.00	2.75	49.32
BU295310027SD/T-GF15	**295.00**	310.00	2.75	120.61
BU300310019SD/T*	**300.00**	310.00	1.90	29.87

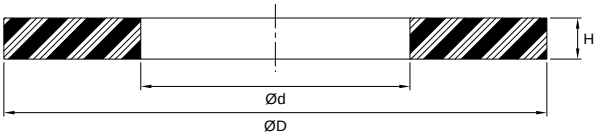
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
BU310320024SD/T	**310.00**	320.00	2.40	111.81
BU325340027SD/T-GF15	**325.00**	340.00	2.75	126.23
BU327337019SD/T	**327.00**	337.00	1.90	56.11
BU330340019SD/T*	**330.00**	340.00	1.90	52.69
BU338350027SD/T*	**338.00**	350.00	2.70	168.30
BU340355027SD/T*	**340.00**	355.00	2.70	150.04
BU345360027SD/T	**345.00**	360.00	2.75	75.75
BU345360027SD/T-GF15*	**345.00**	360.00	2.75	132.75
BU350360019SD/T*	**350.00**	360.00	1.90	158.97
BU350363030SD/T*	**350.00**	363.00	3.00	150.67
BU375390027SD/T-GF15*	**375.00**	390.00	2.75	146.92
BU385400027SD/T	**385.00**	400.00	2.70	173.30
BU389399025SD/T*	**389.00**	399.00	2.50	70.99
BU405420027SD/T-GF15	**405.00**	420.00	2.75	165.53
BU465480028SD/T-GF15*	**465.00**	480.00	2.75	231.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range
Polyurethane	-40°F to +195°F (-40°C to +91°C)



SD/U-style is the same as **SD/T** Back-up rings but in 95 durometer polyurethane material.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
BU003006013SD/U*	**3.00**	6.00	1.30	0.59
BU004007013SD/U*	**4.00**	7.00	1.30	0.59
BU005008013SD/U*	**5.00**	8.00	1.30	0.59
BU006009013SD/U*	**6.00**	9.00	1.30	0.59
BU007010013SD/U*	**7.00**	10.00	1.30	0.59
BU008011013SD/U*	**8.00**	110.00	1.30	0.59
BU009012013SD/U*	**9.00**	12.00	1.30	0.59
BU010013013SD/U*	**10.00**	13.00	1.30	0.59
BU010014013SD/U	**10.00**	14.00	1.30	0.58
BU011015013SD/U*	**11.00**	15.00	1.30	0.59
BU011015013SD/U-1*	**11.20**	15.20	1.30	3.24
BU012016013SD/U	**12.00**	16.00	1.30	0.59
BU012016013SD/U-1*	**12.50**	16.50	1.30	3.57
BU013017013SD/U	**13.00**	17.00	1.30	0.60
BU014018013SD/U	**14.00**	18.00	1.30	0.60
BU015019013SD/U	**15.00**	19.00	1.30	0.49
BU016020013SD/U	**16.00**	20.00	1.30	0.63
BU017021013SD/U*	**17.00**	21.00	1.30	0.75
BU018022013SD/U	**18.00**	22.00	1.30	0.64
BU020024013SD/U*	**20.00**	24.00	1.30	0.71
BU020025013SD/U	**20.00**	25.00	1.30	0.71
BU020026013SD/U*	**20.00**	26.00	1.30	0.71

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
BU021025013SD/U*	**21.00**	25.00	1.30	0.72
BU021026013SD/U*	**21.00**	26.00	1.30	0.72
BU022026013SD/U	**22.00**	26.00	1.30	0.72
BU022027013SD/U*	**22.00**	27.00	1.30	0.72
BU022028013SD/U	**22.00**	28.00	1.30	0.72
BU022028013SD/U-1*	**22.40**	28.40	1.30	4.20
BU023028013SD/U*	**23.00**	28.00	1.30	0.74
BU024030013SD/U*	**24.00**	30.00	1.30	0.74
BU025030013SD/U	**25.00**	30.00	1.30	0.74
BU025030015SD/U*	**25.60**	29.66	1.50	13.67
BU025031013SD/U*	**25.00**	31.00	1.30	0.77
BU025031013SD/U-1*	**25.50**	31.50	1.30	4.42
BU026032013SD/U*	**26.00**	32.00	1.30	0.77
BU027032013SD/U*	**27.00**	32.00	1.30	0.78
BU028034013SD/U*	**28.00**	34.00	1.30	0.79
BU029034013SD/U*	**29.00**	34.00	1.30	0.79
BU029035013SD/U*	**29.00**	35.00	1.30	0.79
BU029035013SD/U-1*	**29.50**	35.50	1.30	5.63
BU030035013SD/U	**30.00**	35.00	1.30	0.79
BU030036013SD/U*	**30.00**	36.00	1.30	0.79
BU031036013SD/U*	**31.00**	36.00	1.30	0.89
BU031037013SD/U*	**31.00**	37.00	1.30	0.81

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/U series - AU 95A

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
BU031037013SD/U-1*	**31.50**	37.50	1.30	5.71
BU032037013SD/U	**32.00**	37.00	1.30	0.81
BU032038013SD/U*	**32.00**	38.00	1.30	0.81
BU033038013SD/U	**33.00**	38.00	1.30	0.81
BU033039013SD/U*	**33.00**	39.00	1.30	0.82
BU034040013SD/U	**34.00**	40.00	1.30	0.82
BU035040013SD/U	**35.00**	40.00	1.30	0.82
BU035041013SD/U*	**35.00**	41.00	1.30	0.83
BU035041013SD/U-1*	**35.50**	41.50	1.30	6.10
BU036042013SD/U*	**36.00**	42.00	1.30	0.83
BU037042013SD/U*	**37.00**	42.00	1.30	0.90
BU038044013SD/U*	**38.00**	44.00	1.30	0.86
BU039045013SD/U*	**39.00**	45.00	1.30	0.86
BU040045013SD/U	**40.00**	45.00	1.30	0.86
BU040046013SD/U*	**40.00**	46.00	1.30	0.91
BU040050017SD/U*	**40.00**	50.00	1.70	1.10
BU041047013SD/U*	**41.00**	47.00	1.30	0.91
BU042048013SD/U*	**42.00**	48.00	1.30	0.91
BU043048013SD/U	**43.00**	48.00	1.30	0.91
BU044050013SD/U	**44.00**	50.00	1.30	0.92
BU045050013SD/U	**45.00**	50.00	1.30	0.92
BU045051013SD/U*	**45.00**	51.00	1.30	0.97
BU045055017SD/U*	**45.00**	55.00	1.70	1.08
BU046052013SD/U*	**46.00**	52.00	1.30	2.15
BU048054013SD/U	**48.00**	54.00	1.30	0.97
BU048058017SD/U*	**48.00**	58.00	1.70	1.39
BU049055013SD/U*	**49.00**	55.00	1.30	0.97
BU050055013SD/U	**50.00**	55.00	1.30	0.97
BU050060013SD/U*	**50.00**	60.00	1.30	1.12
BU050060017SD/U	**50.00**	60.00	1.70	1.39
BU052062017SD/U*	**52.00**	62.00	1.70	1.42
BU053059013SD/U*	**53.40**	59.40	1.30	1.98
BU053059013SD/U-1*	**53.00**	59.00	1.30	9.84
BU053063017SD/U	**53.00**	63.00	1.70	1.42
BU055060013SD/U	**55.00**	60.00	1.30	1.12
BU055065017SD/U	**55.00**	65.00	1.70	1.46
BU056066017SD/U*	**56.00**	66.00	1.70	1.50
BU058063013SD/U	**58.00**	63.00	1.30	1.15
BU058068017SD/U*	**58.00**	68.00	1.70	1.82
BU060065013SD/U	**60.00**	65.00	1.30	1.16
BU060070017SD/U	**60.00**	70.00	1.70	1.54
BU062072017SD/U*	**62.00**	72.00	1.70	1.71
BU063068013SD/U	**63.00**	68.00	1.30	1.20
BU063073017SD/U	**63.00**	73.00	1.70	1.71
BU065070013SD/U	**65.00**	70.00	1.30	1.79
BU065070017SD/U*	**65.00**	70.00	1.70	1.79

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
BU065075017SD/U	**65.00**	75.00	1.70	1.75
BU067077017SD/U*	**67.00**	77.00	1.70	1.78
BU069074013SD/U*	**69.00**	74.00	1.30	1.65
BU070075013SD/U	**70.00**	75.00	1.30	1.26
BU070080017SD/U	**70.00**	80.00	1.70	1.78
BU071081017SD/U*	**71.00**	81.00	1.70	1.81
BU075080013SD/U	**75.00**	80.00	1.30	1.34
BU075085017SD/U	**75.00**	85.00	1.70	1.80
BU078088017SD/U*	**78.00**	88.00	1.70	1.83
BU080085013SD/U	**80.00**	85.00	1.30	1.37
BU080090017SD/U	**80.00**	90.00	1.70	1.85
BU085090013SD/U	**85.00**	90.00	1.30	1.41
BU085095017SD/U	**85.00**	95.00	1.70	2.22
BU088093013SD/U*	**88.00**	93.00	1.30	2.08
BU090095013SD/U	**90.00**	95.00	1.30	1.46
BU090095013SD/U-30K	**90.00**	95.00	1.30	20.40
BU090100017SD/U	**90.00**	100.00	1.70	2.26
BU095100013SD/U	**95.00**	100.00	1.30	1.52
BU095105017SD/U	**95.00**	105.00	1.70	2.33
BU098103013SD/U*	**98.00**	103.00	1.30	1.65
BU100105013SD/U	**100.00**	105.00	1.30	1.56
BU100110017SD/U	**100.00**	110.00	1.70	2.37
BU102112017SD/U*	**102.00**	112.00	1.70	3.19
BU105110013SD/U	**105.00**	110.00	1.30	1.71
BU105115017SD/U	**105.00**	115.00	1.70	3.19
BU110115013SD/U	**110.00**	115.00	1.30	1.78
BU110120017SD/U	**110.00**	120.00	1.70	3.21
BU112122017SD/U*	**112.00**	122.00	1.70	3.24
BU115120013SD/U	**115.00**	120.00	1.30	1.81
BU115125017SD/U	**115.00**	125.00	1.70	3.24
BU120125013SD/U	**120.00**	125.00	1.30	1.85
BU120125013SD/U-30K	**120.00**	125.00	1.30	28.39
BU120130017SD/U	**120.00**	130.00	1.70	3.33
BU125130013SD/U	**125.00**	130.00	1.30	2.07
BU125130017SD/U*	**125.00**	130.00	1.70	2.07
BU125135017SD/U	**125.00**	135.00	1.70	3.35
BU128133013SD/U*	**128.00**	133.00	1.30	2.13
BU130135013SD/U	**130.00**	135.00	1.30	2.13
BU130140013SD/U*	**130.00**	140.00	1.30	2.88
BU130140017SD/U	**130.00**	140.00	1.70	3.41
BU132142017SD/U*	**132.00**	142.00	1.70	3.45
BU135140013SD/U	**135.00**	140.00	1.30	2.19
BU135145017SD/U	**135.00**	145.00	1.70	3.44
BU140145013SD/U	**140.00**	145.00	1.30	2.23
BU140150017SD/U	**140.00**	150.00	1.70	3.47
BU140150017SD/U60D*	**140.00**	150.00	1.70	11.78

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
BU145150013SD/U	**145.00**	150.00	1.30	2.27
BU145155017SD/U	**145.00**	155.00	1.70	3.55
BU145155019SD/U60D*	**145.00**	155.00	1.90	17.59
BU145160021SD/U	**145.00**	160.00	2.10	4.57
BU150155013SD/U*	**150.00**	155.00	1.30	3.01
BU150160017SD/U	**150.00**	160.00	1.70	3.60
BU150160017SD/U60D	**150.00**	160.00	1.70	17.65
BU150165021SD/U	**150.00**	165.00	2.10	4.65
BU152162017SD/U*	**152.00**	162.00	1.70	4.65
BU155160013SD/U*	**155.00**	160.00	1.30	4.01
BU155165017SD/U	**155.00**	165.00	1.70	5.72
BU155170021SD/U*	**155.00**	170.00	2.10	4.79
BU155170027SD/U*	**155.00**	170.00	2.75	5.93
BU160165013SD/U*	**160.00**	165.00	1.30	5.65
BU160170017SD/U	**160.00**	170.00	1.70	5.85
BU160170017SD/U60D*	**160.00**	170.00	1.70	19.03
BU160175021SD/U	**160.00**	175.00	2.10	4.90
BU165170013SD/U*	**165.00**	170.00	1.30	5.87
BU165175017SD/U	**165.00**	175.00	1.70	5.87
BU165175019SD/U60D*	**165.00**	175.00	1.90	19.57
BU165180021SD/U	**165.00**	180.00	2.10	5.03
BU170175013SD/U*	**170.00**	175.00	1.30	5.24
BU170180017SD/U	**170.00**	180.00	1.70	5.91
BU170185021SD/U*	**170.00**	185.00	2.10	5.15
BU172182017SD/U*	**172.00**	182.00	1.70	5.65
BU175180013SD/U*	**175.00**	180.00	1.30	5.79
BU175185017SD/U	**175.00**	185.00	1.70	5.92
BU175190021SD/U	**175.00**	190.00	2.10	5.28
BU180190017SD/U	**180.00**	190.00	1.70	6.05
BU180190017SD/U60D*	**180.00**	190.00	1.70	20.48
BU180195021SD/U*	**180.00**	195.00	2.10	5.41
BU185190013SD/U*	**185.00**	190.00	1.30	5.99
BU185195017SD/U	**185.00**	195.00	1.70	6.09
BU185200021SD/U*	**185.00**	200.00	2.10	5.53
BU190200017SD/U	**190.00**	200.00	1.70	6.10
BU190200017SD/U60D*	**190.00**	200.00	1.70	20.79
BU190200025SD/U60D	**190.00**	200.00	2.50	26.59
BU190205021SD/U*	**190.00**	205.00	2.10	5.67
BU195205017SD/U	**195.00**	205.00	1.70	6.12
BU195210021SD/U*	**195.00**	210.00	2.10	5.78
BU200210017SD/U	**200.00**	210.00	1.70	6.15
BU200210017SD/U60D*	**200.00**	210.00	1.70	21.28
BU200215021SD/U	**200.00**	215.00	2.10	5.92

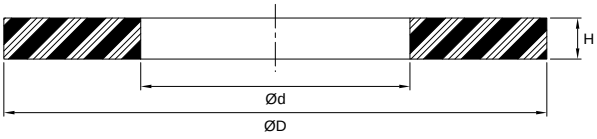
Ref.Number	Nominal Seal Dimensions			$
	d	D	S	
BU205220021SD/U	**205.00**	220.00	2.10	6.04
BU209224021SD/U*	**209.00**	224.00	2.10	6.15
BU210220017SD/U	**210.00**	220.00	1.70	6.31
BU210220017SD/U60D*	**210.00**	220.00	1.70	21.55
BU210225021SD/U*	**210.00**	225.00	2.10	6.15
BU210225027SD/U	**210.00**	225.00	2.70	6.20
BU215225017SD/U	**215.00**	225.00	1.70	6.35
BU215225021SD/U*	**215.00**	225.00	2.10	6.23
BU215230021SD/U	**215.00**	230.00	2.10	6.29
BU215230027SD/U	**215.00**	230.00	2.75	6.74
BU220230017SD/U	**220.00**	230.00	1.70	6.36
BU220235021SD/U*	**220.00**	235.00	2.10	6.40
BU225240021SD/U*	**225.00**	240.00	2.10	6.54
BU230240017SD/U	**230.00**	240.00	1.70	6.50
BU230245021SD/U*	**230.00**	245.00	2.10	6.70
BU235250021SD/U	**235.00**	250.00	2.10	6.79
BU240250017SD/U	**240.00**	250.00	1.70	6.55
BU240250025SD/U60D	**240.00**	250.00	2.50	30.78
BU240255021SD/U*	**240.00**	255.00	2.10	6.92
BU245255017SD/U*	**245.00**	255.00	1.70	7.00
BU245260021SD/U	**245.00**	260.00	2.10	7.04
BU250260017SD/U	**250.00**	260.00	1.70	6.79
BU250265021SD/U*	**250.00**	265.00	2.10	9.01
BU255270021SD/U*	**255.00**	270.00	2.10	9.25
BU260270017SD/U*	**260.00**	270.00	1.70	7.91
BU260272030SD/U*	**259.60**	271.60	3.00	155.67
BU265280021SD/U*	**265.00**	280.00	2.10	10.07
BU265280027SD/U	**265.00**	280.00	2.70	38.56
BU270280017SD/U*	**270.00**	280.00	1.70	9.50
BU270280025SD/U60D*	**270.00**	280.00	2.50	35.81
BU275285017SD/U	**275.00**	285.00	1.70	10.67
BU275290021SD/U*	**275.00**	290.00	2.10	10.07
BU280290017SD/U*	**280.00**	290.00	1.70	13.15
BU285300021SD/U*	**285.00**	300.00	2.10	40.14
BU285300027SD/U*	**285.00**	300.00	2.70	10.07
BU290300017SD/U	**290.00**	300.00	1.70	16.90
BU295310021SD/U*	**295.00**	310.00	2.10	29.99
BU300310017SD/U*	**300.00**	310.00	1.70	17.77
BU320330019SD/U	**320.00**	330.00	1.90	21.99
BU325340027SD/U	**325.00**	340.00	2.70	20.37
BU335350027SD/U*	**335.00**	350.00	2.70	66.34
BU340355027SD/U*	**340.00**	355.00	2.70	27.06
BU345360027SD/U*	**345.00**	360.00	2.70	27.06

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/N & ST/N - Back-up rings - Metric



Standard Material	Temperature Range
Nylon	-40°F to +250°F (-40°C to +121°C)



Back-up rings are auxiliary devices used in conjunction with standard seals such as O'Rings and U-Cup type seals. **SD/N & ST/N** rings are manufactured out of nylon material, supplied split and solid version.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	h	
BU008018020ST/N*	**8.00**	**18.00**	8.00	18.00	2.00	6.10
BU010020020ST/N*	**10.00**	**20.00**	10.00	20.00	2.00	6.10
BU014024020ST/N*	**14.00**	**24.00**	14.00	24.00	2.00	6.10
BU015028020ST/N*	**15.00**	**28.00**	15.00	28.00	2.00	6.10
BU016026020ST/N*	**16.00**	**26.00**	16.00	26.00	2.00	6.10
BU018026020ST/N*	**18.00**	**26.00**	18.00	26.00	2.00	6.10
BU018031020ST/N*	**18.00**	**31.00**	18.00	31.00	2.00	6.10
BU020028020ST/N*	**20.00**	**28.00**	20.00	28.00	2.00	6.85
BU020030020ST/N*	**20.00**	**30.00**	20.00	30.00	2.00	6.99
BU020033020ST/N*	**20.00**	**33.00**	20.00	33.00	2.00	7.74
BU022030020ST/N*	**22.40**	**30.00**	22.40	30.00	2.00	8.26
BU022033020ST/N*	**22.40**	**33.00**	22.40	33.00	2.00	9.12
BU022035020ST/N*	**22.00**	**35.00**	22.00	35.00	2.00	10.01
BU023031020ST/N*	**23.50**	**31.50**	23.50	31.50	2.00	10.24
BU025033020ST/N*	**25.00**	**33.00**	25.00	33.00	2.00	10.78
BU025035015ST/N*	**25.00**	**35.00**	25.00	35.00	1.50	11.00
BU025035020ST/N*	**25.00**	**35.00**	25.00	35.00	2.00	11.01
BU025035020ST/N-1*	**25.50**	**35.50**	25.50	35.50	2.00	11.24
BU025035050ST/N*	**25.00**	**35.00**	25.00	35.00	5.00	11.72
BU025038020ST/N*	**25.00**	**38.00**	25.00	38.00	2.00	10.77
BU027040030ST/N*	**27.00**	**40.00**	27.00	40.00	3.00	10.99
BU028035030ST/N	**28.00**	**35.50**	28.00	35.50	3.00	11.09

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Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	h	
BU028040030ST/N*	**28.00**	**40.00**	28.00	40.00	3.00	11.26
BU028041030ST/N*	**28.00**	**41.00**	28.00	41.00	3.00	11.64
BU030040015ST/N	**30.00**	**40.00**	30.00	40.00	1.50	11.71
BU030040030ST/N	**30.00**	**40.00**	30.00	40.00	3.00	11.85
BU030043030ST/N*	**30.00**	**43.00**	30.00	43.00	3.00	12.24
BU031041030ST/N*	**31.50**	**41.50**	31.50	41.50	3.00	12.74
BU031044030ST/N*	**31.50**	**44.50**	31.50	44.50	3.00	13.85
BU032042013ST/N	**32.00**	**42.00**	32.00	42.00	1.30	14.54
BU034050030ST/N*	**34.00**	**50.00**	34.00	50.00	3.00	14.78
BU035039025SD/N*	**35.00**	**38.80**	35.00	38.80	2.50	15.05
BU035045015ST/N	**35.00**	**45.00**	35.00	45.00	1.50	15.23
BU035045030ST/N	**35.00**	**45.00**	35.00	45.00	3.00	15.61
BU035045030ST/N-1*	**35.50**	**45.00**	35.50	45.00	3.00	15.78
BU035050030ST/N*	**35.00**	**50.00**	35.00	50.00	3.00	16.01
BU035051030ST/N*	**35.50**	**51.50**	35.50	51.50	3.00	15.25
BU036044015ST/N	**36.00**	**44.00**	36.00	44.00	1.50	16.53
BU036044029ST/N*	**36.00**	**44.00**	36.00	44.00	2.90	16.77
BU037057100ST/N*	**37.15**	**56.70**	37.15	56.70	10.00	17.01
BU038048015ST/N*	**38.00**	**48.00**	38.00	48.00	1.50	17.26
BU040050015ST/N	**40.00**	**50.00**	40.00	50.00	1.50	17.41
BU040050020ST/N	**40.00**	**50.00**	40.00	50.00	2.00	16.21
BU040050030ST/N	**40.00**	**50.00**	40.00	50.00	3.00	17.02
BU040053020ST/N	**40.00**	**53.00**	40.00	53.00	2.00	16.00
BU040055030ST/N	**40.00**	**55.00**	40.00	55.00	3.00	17.41
BU040056030ST/N*	**40.00**	**56.00**	40.00	56.00	3.00	17.35
BU044064100SD/N	**44.00**	**64.00**	44.00	64.00	10.00	17.99
BU045055030ST/N	**45.00**	**55.00**	45.00	55.00	3.00	16.01
BU045056030ST/N*	**45.00**	**56.00**	45.00	56.00	3.00	16.24
BU045060030ST/N	**45.00**	**60.00**	45.00	60.00	3.00	17.02
BU045061030ST/N*	**45.00**	**61.00**	45.00	61.00	3.00	15.78
BU047061030ST/N*	**47.00**	**61.00**	47.00	61.00	3.00	13.34
BU047063030ST/N*	**47.00**	**63.00**	47.00	63.00	3.00	13.89
BU048063030ST/N	**48.00**	**63.00**	48.00	63.00	3.00	14.03
BU049070100SD/N	**49.30**	**70.00**	49.30	70.00	10.00	11.88
BU050060020ST/N	**50.00**	**60.00**	50.00	60.00	2.00	15.54
BU050060030ST/N	**50.00**	**60.00**	50.00	60.00	3.00	15.78
BU050063020ST/N	**50.00**	**63.00**	50.00	63.00	2.00	12.69
BU050063030ST/N	**50.00**	**63.00**	50.00	63.00	3.00	6.55
BU050065020ST/N	**50.00**	**65.00**	50.00	65.00	2.00	20.37
BU050065030ST/N	**50.00**	**65.00**	50.00	65.00	3.00	13.74
BU050065030ST/N-1*	**50.40**	**65.00**	50.40	65.00	3.00	12.39
BU050066030ST/N*	**50.00**	**66.00**	50.00	66.00	3.00	12.39
BU050070030ST/N	**50.00**	**70.00**	50.00	70.00	3.00	13.56
BU053063030ST/N*	**53.00**	**63.00**	53.00	63.00	3.00	13.89
BU055065030ST/N	**55.00**	**65.00**	55.00	65.00	3.00	13.79
BU055068030ST/N	**55.00**	**68.00**	55.00	68.00	3.00	15.17

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/N & ST/N series - NYLON

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	h	
BU055070020ST/N*	**55.00**	**70.00**	55.00	70.00	2.00	14.94
BU055070030ST/N	**55.00**	**70.00**	55.00	70.00	3.00	15.30
BU055071030ST/N*	**55.00**	**71.00**	55.00	71.00	3.00	12.63
BU055075030ST/N	**55.00**	**75.00**	55.00	75.00	3.00	17.36
BU056066030ST/N*	**56.00**	**66.00**	56.00	66.00	3.00	11.66
BU060070019ST/N	**60.00**	**70.00**	60.00	70.00	1.90	11.01
BU060070030ST/N	**60.00**	**70.00**	60.00	70.00	3.00	15.17
BU060071030ST/N*	**60.00**	**71.00**	60.00	71.00	3.00	15.17
BU060073030ST/N	**60.00**	**73.00**	60.00	73.00	3.00	13.75
BU060075030ST/N	**60.00**	**75.00**	60.00	75.00	3.00	16.04
BU060076030ST/N*	**60.00**	**76.00**	60.00	76.00	3.00	16.89
BU060080030ST/N	**60.00**	**80.00**	60.00	80.00	3.00	13.75
BU060080100SD/N	**60.00**	**80.00**	60.00	80.00	10.00	59.42
BU060080100SDN*	**60.00**	**80.00**	60.00	80.00	10.00	39.61
BU063073030ST/N*	**63.00**	**73.00**	63.00	73.00	3.00	13.20
BU063075030ST/N	**63.00**	**75.00**	63.00	75.00	3.00	24.06
BU064080030ST/N*	**64.00**	**80.00**	64.00	80.00	3.00	15.15
BU065075030ST/N	**65.00**	**75.00**	65.00	75.00	3.00	16.99
BU065078030ST/N	**65.00**	**78.00**	65.00	78.00	3.00	13.75
BU065080030ST/N	**65.00**	**80.00**	65.00	80.00	3.00	13.75
BU065085030ST/N	**65.00**	**85.00**	65.00	85.00	3.00	18.45
BU067077030ST/N*	**67.00**	**77.00**	67.00	77.00	3.00	14.37
BU070080019ST/N	**70.00**	**80.00**	70.00	80.00	1.90	8.18
BU070080030ST/N	**70.00**	**80.00**	70.00	80.00	3.00	17.84
BU070083030ST/N	**70.00**	**83.00**	70.00	83.00	3.00	13.75
BU070085030ST/N	**70.00**	**85.00**	70.00	85.00	3.00	13.75
BU070090030ST/N	**70.00**	**90.00**	70.00	90.00	3.00	13.75
BU071080030ST/N*	**71.00**	**80.00**	71.00	80.00	3.00	15.15
BU071081030ST/N*	**71.00**	**81.00**	71.00	81.00	3.00	15.15
BU071091030ST/N*	**71.00**	**91.00**	71.00	91.00	3.00	17.20
BU074094100SD/N	**74.00**	**94.00**	74.00	94.00	10.00	42.55
BU075085030ST/N	**75.00**	**85.00**	75.00	85.00	3.00	27.71
BU075088030ST/N	**75.00**	**88.00**	75.00	88.00	3.00	13.75
BU075090030ST/N	**75.00**	**90.00**	75.00	90.00	3.00	13.75
BU075095030ST/N	**75.00**	**95.00**	75.00	95.00	3.00	13.75
BU076090030ST/N*	**76.00**	**90.00**	76.00	90.00	3.00	22.43
BU080090019ST/N	**80.00**	**90.00**	80.00	90.00	1.90	8.88
BU080090030ST/N	**80.00**	**90.00**	80.00	90.00	3.00	27.13
BU080093030ST/N	**80.00**	**93.00**	80.00	93.00	3.00	16.61
BU080095030SD/N*	**80.00**	**95.00**	80.00	95.00	3.00	21.90
BU080095030ST/N	**80.00**	**95.00**	80.00	95.00	3.00	16.61
BU080100030ST/N	**80.00**	**100.00**	80.00	100.00	3.00	16.61
BU085100030ST/N	**85.00**	**100.00**	85.00	100.00	3.00	16.61
BU085105030ST/N	**85.00**	**105.00**	85.00	105.00	3.00	16.61
BU086100030ST/N*	**86.00**	**100.00**	86.00	100.00	3.00	27.60
BU090095025ST/N	**90.00**	**95.00**	90.00	95.00	2.50	38.12

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Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	h	
BU090100019ST/N*	**90.00**	**100.00**	90.00	100.00	1.90	9.41
BU090105030SD/N	**90.00**	**105.00**	90.00	105.00	3.00	29.84
BU090105030ST/N	**90.00**	**105.00**	90.00	105.00	3.00	16.61
BU090105040ST/N*	**90.00**	**105.00**	90.00	105.00	4.00	33.68
BU090110030ST/N	**90.00**	**110.00**	90.00	110.00	3.00	16.61
BU092100015ST/N	**92.00**	**100.00**	92.00	100.00	1.50	33.00
BU095100025ST/N	**95.00**	**100.00**	95.00	100.00	2.50	38.12
BU095110030ST/N	**95.00**	**110.00**	95.00	110.00	3.00	16.61
BU095115030SD/N*	**95.00**	**115.00**	95.00	115.00	3.00	26.52
BU095115030ST/N	**95.00**	**115.00**	95.00	115.00	3.00	16.61
BU098112030ST/N*	**98.00**	**112.00**	98.00	112.00	3.00	29.91
BU100105025ST/N*	**100.00**	**105.00**	100.00	105.00	2.50	32.23
BU100115030ST/N	**100.00**	**115.00**	100.00	115.00	3.00	19.32
BU100120030SD/N*	**100.00**	**120.00**	100.00	120.00	3.00	30.56
BU100120030ST/N	**100.00**	**120.00**	100.00	120.00	3.00	19.32
BU100125030ST/N*	**100.00**	**125.00**	100.00	125.00	3.00	31.71
BU100125035ST/N*	**100.00**	**125.00**	100.00	125.00	3.50	32.12
BU104110030ST/N*	**104.00**	**110.00**	104.00	110.00	3.00	34.76
BU105110025ST/N	**105.00**	**110.00**	105.00	110.00	2.50	41.10
BU105115030ST/N	**105.00**	**115.00**	105.00	115.00	3.00	41.75
BU105120030ST/N	**105.00**	**120.00**	105.00	120.00	3.00	19.32
BU105125030ST/N	**105.00**	**125.00**	105.00	125.00	3.00	19.32
BU106120030ST/N*	**106.00**	**120.00**	106.00	120.00	3.00	33.02
BU109115030ST/N*	**109.00**	**115.00**	109.00	115.00	3.00	36.51
BU110125030ST/N	**110.00**	**125.00**	110.00	125.00	3.00	40.73
BU110130020ST/N*	**110.00**	**130.00**	110.00	130.00	2.00	32.13
BU110130030SD/N*	**110.00**	**130.00**	110.00	130.00	3.00	37.28
BU110130030ST/N	**110.00**	**130.00**	110.00	130.00	3.00	19.32
BU112125030ST/N	**112.00**	**125.00**	112.00	125.00	3.00	41.79
BU112132030ST/N*	**112.00**	**132.00**	112.00	132.00	3.00	38.22
BU114120030ST/N*	**114.00**	**120.00**	114.00	120.00	3.00	40.56
BU115130030ST/N	**115.00**	**130.00**	115.00	130.00	3.00	41.78
BU115130040ST/N	**115.00**	**130.00**	115.00	130.00	4.00	54.23
BU115135030ST/N	**115.00**	**135.00**	115.00	135.00	3.00	47.72
BU119125030ST/N*	**119.00**	**125.00**	119.00	125.00	3.00	38.06
BU120135030ST/N	**120.00**	**135.00**	120.00	135.00	3.00	19.32
BU120140030ST/N	**120.00**	**140.00**	120.00	140.00	3.00	20.70
BU124130030ST/N*	**124.00**	**130.00**	124.00	130.00	3.00	40.56
BU125140030ST/N	**125.00**	**140.00**	125.00	140.00	3.00	53.09
BU125145030ST/N*	**125.00**	**145.00**	125.00	145.00	3.00	46.53
BU125150030ST/N*	**125.00**	**150.00**	125.00	150.00	3.00	57.42
BU128140030ST/N*	**128.00**	**140.00**	128.00	140.00	3.00	51.38
BU129135030ST/N*	**129.00**	**135.00**	129.00	135.00	3.00	48.14
BU130145030ST/N	**130.00**	**145.00**	130.00	145.00	3.00	55.14
BU130145040ST/N	**130.00**	**145.00**	130.00	145.00	4.00	55.14
BU130150020ST/N	**130.00**	**150.00**	130.00	150.00	2.00	52.74

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SD/N & ST/N series - NYLON

Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	h	
BU130150030ST/N	**130.00**	**150.00**	130.00	150.00	3.00	27.23
BU130150040ST/N	**130.00**	**150.00**	130.00	150.00	4.00	63.30
BU134140030ST/N*	**134.00**	**140.00**	134.00	140.00	3.00	55.70
BU135150030ST/N*	**135.00**	**150.00**	135.00	150.00	3.00	55.77
BU135155030ST/N*	**135.00**	**155.00**	135.00	155.00	3.00	59.40
BU135160030ST/N*	**135.00**	**160.00**	135.00	160.00	3.00	55.16
BU136150030ST/N*	**136.00**	**150.00**	136.00	150.00	3.00	48.55
BU139145030ST/N*	**139.00**	**145.00**	139.00	145.00	3.00	56.69
BU140155030ST/N	**140.00**	**155.00**	140.00	155.00	3.00	63.04
BU140155040ST/N*	**140.00**	**155.00**	140.00	155.00	4.00	57.38
BU140160030ST/N	**140.00**	**160.00**	140.00	160.00	3.00	34.74
BU140160040ST/N	**140.00**	**160.00**	140.00	160.00	4.00	65.51
BU140165030ST/N*	**140.00**	**165.00**	140.00	165.00	3.00	57.87
BU144150030ST/N*	**144.00**	**150.00**	144.00	150.00	3.00	57.54
BU145160030ST/N	**145.00**	**160.00**	145.00	160.00	3.00	65.22
BU145160040ST/N*	**145.00**	**160.00**	145.00	160.00	4.00	68.45
BU145165030ST/N*	**145.00**	**165.00**	145.00	165.00	3.00	62.87
BU145170030ST/N*	**145.00**	**170.00**	145.00	170.00	3.00	60.98
BU150155015SD/N	**150.00**	**155.00**	150.00	155.00	1.50	23.50
BU150165030ST/N	**150.00**	**165.00**	150.00	165.00	3.00	68.43
BU150165040ST/N*	**150.00**	**165.00**	150.00	165.00	4.00	68.43
BU150170030ST/N	**150.00**	**170.00**	150.00	170.00	3.00	65.24
BU152164030ST/N*	**152.00**	**164.00**	152.00	164.00	3.00	62.22
BU154160030ST/N	**154.00**	**160.00**	154.00	160.00	3.00	67.82
BU155170040ST/N*	**155.00**	**170.00**	155.00	170.00	4.00	72.11
BU155175040ST/N*	**155.00**	**175.00**	155.00	175.00	4.00	69.45
BU155180030ST/N*	**155.00**	**180.00**	155.00	180.00	3.00	73.92
BU155180040ST/N*	**155.00**	**180.00**	155.00	180.00	4.00	67.97
BU160175030ST/N	**160.00**	**175.00**	160.00	175.00	3.00	65.40
BU160175040ST/N*	**160.00**	**175.00**	160.00	175.00	4.00	80.12
BU160180030ST/N	**160.00**	**180.00**	160.00	180.00	3.00	41.79
BU160180040ST/N	**160.00**	**180.00**	160.00	180.00	4.00	84.96
BU160185030ST/N*	**160.00**	**185.00**	160.00	185.00	3.00	71.52
BU160185035ST/N	**160.00**	**185.00**	160.00	185.00	3.50	57.75
BU160185040SD/N*	**160.00**	**185.00**	160.00	185.00	4.00	86.93
BU164170030ST/N*	**164.00**	**170.00**	164.00	170.00	3.00	64.80
BU165180035ST/N*	**165.00**	**180.00**	165.00	180.00	3.50	73.14
BU165180040ST/N*	**165.00**	**180.00**	165.00	180.00	4.00	80.37
BU165185040ST/N	**165.00**	**185.00**	165.00	185.00	4.00	67.20
BU170180040ST/N*	**170.00**	**180.00**	170.00	180.00	4.00	64.80
BU170185040ST/N*	**170.00**	**185.00**	170.00	185.00	4.00	81.77
BU170190030ST/N	**170.00**	**190.00**	170.00	190.00	3.00	94.20
BU170190040ST/N*	**170.00**	**190.00**	170.00	190.00	4.00	89.72
BU170190050ST/N*	**170.00**	**190.00**	170.00	190.00	5.00	51.93
BU170190060ST/N*	**170.00**	**190.00**	170.00	190.00	6.00	89.10
BU170195035ST/N*	**170.00**	**195.00**	170.00	195.00	3.50	81.77

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Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	h	
BU170195040ST/N*	**170.00**	**195.00**	170.00	195.00	4.00	103.10
BU170200040ST/N*	**170.00**	**200.00**	170.00	200.00	4.00	82.34
BU174180030ST/N	**174.00**	**180.00**	174.00	180.00	3.00	76.01
BU175190040ST/N*	**175.00**	**190.00**	175.00	190.00	4.00	88.65
BU175200040ST/N*	**175.00**	**200.00**	175.00	200.00	4.00	97.37
BU180192030ST/N*	**180.00**	**192.00**	180.00	192.00	3.00	85.82
BU180200040ST/N*	**180.00**	**200.00**	180.00	200.00	4.00	97.37
BU180205035ST/N	**180.00**	**205.00**	180.00	205.00	3.50	59.25
BU180205040ST/N	**180.00**	**205.00**	180.00	205.00	4.00	101.96
BU180205050ST/N*	**180.00**	**205.00**	180.00	205.00	5.00	101.96
BU184190030ST/N*	**184.00**	**190.00**	184.00	190.00	3.00	65.16
BU190200040ST/N*	**190.00**	**200.00**	190.00	200.00	4.00	72.80
BU190210040ST/N*	**190.00**	**210.00**	190.00	210.00	4.00	105.65
BU190210050ST/N*	**190.00**	**210.00**	190.00	210.00	5.00	103.25
BU194200030ST/N	**194.00**	**200.00**	194.00	200.00	3.00	72.45
BU200210019ST/N	**200.00**	**210.00**	200.00	210.00	1.90	60.78
BU200220030ST/N	**200.00**	**220.00**	200.00	220.00	3.00	108.42
BU200220040ST/N*	**200.00**	**220.00**	200.00	220.00	4.00	112.07
BU200225040ST/N	**200.00**	**225.00**	200.00	225.00	4.00	116.66
BU200225045ST/N	**200.00**	**225.00**	200.00	225.00	4.50	87.80
BU200225050ST/N*	**200.00**	**225.00**	200.00	225.00	5.00	94.85
BU204224040ST/N*	**204.00**	**224.00**	204.00	224.00	4.00	115.73
BU205220040ST/N*	**205.00**	**220.00**	205.00	220.00	4.00	92.60
BU210230030ST/N*	**210.00**	**230.00**	210.00	230.00	3.00	108.42
BU210230040ST/N*	**210.00**	**230.00**	210.00	230.00	4.00	120.33
BU210235030ST/N*	**210.00**	**235.00**	210.00	235.00	3.00	95.52
BU210235040ST/N*	**210.00**	**235.00**	210.00	235.00	4.00	117.78
BU210235050ST/N*	**210.00**	**235.00**	210.00	235.00	5.00	124.31
BU212224030ST/N*	**212.00**	**224.00**	212.00	224.00	3.00	114.06
BU220240040ST/N*	**220.00**	**240.00**	220.00	240.00	4.00	125.85
BU220245045ST/N*	**220.00**	**245.00**	220.00	245.00	4.50	94.44
BU220245050ST/N	**220.00**	**245.00**	220.00	245.00	5.00	125.52
BU220250062ST/NAT	**220.00**	**250.00**	220.00	250.00	6.20	140.45
BU225245040ST/N*	**225.00**	**245.00**	225.00	245.00	4.00	128.60
BU225250030ST/N*	**225.00**	**250.00**	225.00	250.00	3.00	129.53
BU225250040ST/N*	**225.00**	**250.00**	225.00	250.00	4.00	99.20
BU230250040ST/N*	**230.00**	**250.00**	230.00	250.00	4.00	132.27
BU230260050ST/N	**230.00**	**260.00**	230.00	260.00	5.00	138.99
BU240260040ST/N*	**240.00**	**260.00**	240.00	260.00	4.00	139.62
BU240265040ST/N	**240.00**	**265.00**	240.00	265.00	4.00	136.94
BU240270040ST/N*	**240.00**	**270.00**	240.00	270.00	4.00	142.20
BU240270062ST/NAT*	**240.00**	**270.00**	240.00	270.00	6.20	184.67
BU244250030ST/N*	**244.00**	**250.00**	244.00	250.00	3.00	97.50
BU250270030ST/N*	**250.00**	**270.00**	250.00	270.00	3.00	135.29
BU250270040ST/N*	**250.00**	**270.00**	250.00	270.00	4.00	146.97
BU250275040ST/N*	**250.00**	**275.00**	250.00	275.00	4.00	110.40

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/N & ST/N series - NYLON

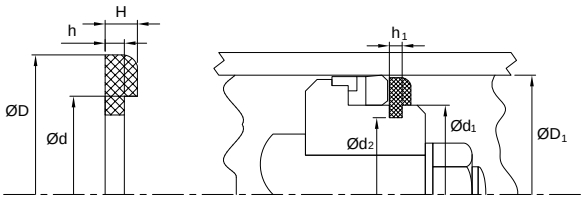
Ref.Number	Rod Diameter	Bore Diameter	Nominal Seal Dimensions			$
			d	D	h	
BU250275060ST/N*	**250.00**	**275.00**	250.00	275.00	6.00	143.57
BU250280050ST/N	**250.00**	**280.00**	250.00	280.00	5.00	149.21
BU255280040ST/N*	**255.00**	**280.00**	255.00	280.00	4.00	150.23
BU260285040ST/N*	**260.00**	**285.00**	260.00	285.00	4.00	154.21
BU260290050ST/N	**260.00**	**290.00**	260.00	290.00	5.00	158.66
BU265290040ST/N*	**265.00**	**290.00**	265.00	290.00	4.00	159.60
BU265297040ST/N*	**265.00**	**297.00**	265.00	297.00	4.00	162.20
BU270295040ST/N*	**270.00**	**295.00**	270.00	295.00	4.00	164.37
BU270300040SD/N	**270.00**	**300.00**	270.00	300.00	4.00	169.95
BU270300040ST/N*	**270.00**	**300.00**	270.00	300.00	4.00	154.25
BU270300050ST/NAT*	**270.00**	**300.00**	270.00	300.00	5.00	157.52
BU274280030ST/N*	**274.00**	**280.00**	274.00	280.00	3.00	105.06
BU275300040ST/N*	**275.00**	**300.00**	275.00	300.00	4.00	151.45
BU280305040ST/N*	**280.00**	**305.00**	280.00	305.00	4.00	162.85
BU280312040ST/N*	**280.00**	**312.00**	280.00	312.00	4.00	169.20
BU290310030ST/N*	**290.00**	**310.00**	290.00	310.00	3.00	171.77
BU290315040ST/N*	**290.00**	**315.00**	290.00	315.00	4.00	137.20
BU300320040ST/N*	**300.00**	**320.00**	300.00	320.00	4.00	178.22
BU300324040SD/N*	**300.00**	**324.00**	300.00	324.00	4.00	180.95
BU300325040ST/N*	**300.00**	**325.00**	300.00	325.00	4.00	190.99
BU300330050ST/N	**300.00**	**330.00**	300.00	330.00	5.00	276.06
BU300332040ST/N*	**300.00**	**332.00**	300.00	332.00	4.00	199.99
BU304310030ST/N	**304.00**	**310.00**	304.00	310.00	3.00	186.47
BU330350040SD/N*	**330.00**	**350.00**	330.00	350.00	4.00	186.47
BU340370050SD/N*	**340.00**	**370.00**	340.00	370.00	5.00	158.93
BU345375030ST/N*	**345.00**	**375.00**	345.00	375.00	3.00	186.47
BU383390035SD/N*	**383.00**	**390.00**	383.00	390.00	3.50	382.80
BU473480035SD/N*	**473.00**	**480.00**	473.00	480.00	3.50	186.47

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**





Standard Material	Temperature Range
Polyacetal	-22°F to +212°F (-30°C to +100°C)



These split rings made of acetal material are primarily used as retaining devices when used in conjunction with **PR-style** piston seals.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

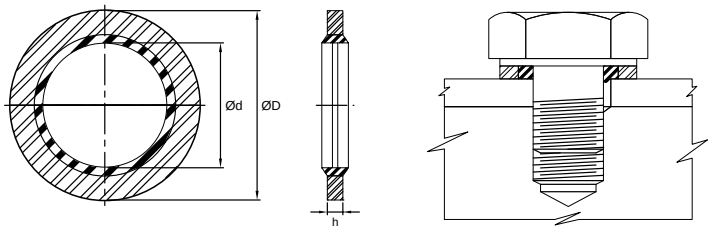
Ref. Number	Bore Diameter	Tol.	Nominal Seal Dimensions				Housing Dimensions					$
			D	d	h	H	d1	d2	Tol.	h1	Tol.	
KR034022*	**34.00**	+0.08 -0.00	34.00	22.00	2.50	6.00	22.00	17.60	+0.00 -0.25	2.60	+0.05 -0.00	5.64
KR045035*	**45.00**		45.00	35.00	3.10	5.00	35.00	30.60		3.20		4.92
KR050030*	**50.00**		50.00	30.00	3.30	6.48	30.00	25.60		3.40		4.92
KR055040*	**55.00**		55.00	40.00	3.10	6.00	40.00	35.60		3.20		5.64
KR060040*	**60.00**		60.00	40.00	3.30	6.48	40.00	35.60		3.40		5.64
KR065045*	**65.00**		65.00	45.00	3.30	6.48	45.00	40.60		3.40		6.27
KR065050*	**65.00**		65.00	50.00	3.10	6.00	50.00	45.60		3.20		6.27
KR070050*	**70.00**		70.00	50.00	3.30	6.48	50.00	45.60		3.40		7.21
KR080060*	**80.00**	+0.10 -0.00	80.00	60.00	3.30	6.48	60.00	55.60		3.40		6.56
KR080065*	**80.00**		80.00	65.00	3.30	6.48	65.00	60.60		3.40		6.90
KR090070*	**90.00**		90.00	70.00	3.30	6.48	70.00	65.60		3.40		8.95
KR095075*	**95.00**		95.00	75.00	3.30	6.48	75.00	70.60		3.40		6.90
KR100080*	**100.00**		100.00	80.00	3.30	6.48	80.00	75.60		3.40		10.38
KR104085*	**104.50**		104.50	85.00	3.30	6.48	85.00	80.60		3.40		15.52
KR105085*	**105.00**		105.00	85.00	3.30	6.48	85.00	80.60		3.40		13.95
KR110090*	**110.00**		110.00	90.00	3.30	6.48	90.00	85.60		3.40		15.15
KR115095*	**115.00**		115.00	95.00	3.30	6.48	95.00	90.60		3.40		14.93
KR120100*	**120.00**		120.00	100.00	3.30	6.48	100.00	85.60		3.40		12.20
KR125105*	**125.00**		125.00	105.00	3.30	6.48	105.00	100.60		3.40		15.41
KR130110*	**130.00**		130.00	110.00	3.30	6.48	110.00	105.60		3.40		15.41

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Usit rings - Metric



Standard Material	Temperature Range
Carbon Steel/ Nitrile	-65°F to +225°F (-54°C to +107°C)



Usit Rings are metal washers with a trapezoidal elastomeric element bonded to their inside diameter. Used primarily with threaded fasteners and flanged or hydraulic connectors. they are positively actuated via the torque applied to the hardware assembly.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BS003007010*	**3.60**	7.50	1.00	2.56
BS004007010*	**4.10**	7.20	1.00	5.10
BS004007010-1	**4.50**	7.00	1.00	5.10
BS004009010*	**4.60**	9.00	1.00	2.64
BS005009010	**5.70**	9.00	1.00	4.36
BS005010010	**5.60**	10.00	1.00	2.62
BS005010010-1*	**5.70**	10.00	1.00	4.30
BS006009010*	**6.20**	9.20	1.00	4.36
BS006010010	**6.70**	10.00	1.00	4.36
BS006011010	**6.60**	11.00	1.00	2.62
BS006011010-1	**6.70**	11.00	1.00	4.30
BS006011025*	**6.70**	11.00	2.50	4.30
BS006013013*	**6.85**	13.27	1.30	2.75
BS007010010*	**7.30**	10.20	1.00	4.36
BS007011010*	**7.00**	11.40	1.00	2.62
BS007012010*	**7.10**	12.00	1.00	4.42
BS008012012*	**8.30**	12.70	1.25	2.97
BS008013010	**8.50**	13.40	1.00	4.24
BS008013010-1*	**8.70**	13.00	1.00	3.80
BS008013010-2*	**8.70**	13.00	1.00	2.70
BS008014010	**8.70**	14.00	1.00	3.80
BS008016010*	**8.70**	16.00	1.00	4.05

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BS009013010	**9.30**	13.30	1.00	3.87
BS010014012	**10.40**	14.70	1.25	2.97
BS010016015	**10.70**	16.00	1.50	4.10
BS010016020	**10.35**	16.00	2.00	4.30
BS010016020-1	**10.37**	15.88	2.03	2.97
BS010017015	**10.70**	17.00	1.50	2.97
BS010018015*	**10.70**	18.00	1.50	4.16
BS011016015*	**11.40**	16.30	1.50	3.87
BS011018015	**11.80**	18.10	1.50	4.48
BS011018015-1	**11.80**	18.50	1.50	3.03
BS011019015	**11.80**	19.10	1.50	4.48
BS012018015	**12.70**	18.00	1.50	4.16
BS012019015	**12.70**	19.00	1.50	3.03
BS012020015	**12.70**	20.00	1.50	4.48
BS013018012*	**13.85**	18.70	1.25	3.17
BS013020015*	**13.70**	20.00	1.50	4.48
BS013020015-1*	**13.80**	20.10	1.50	3.06
BS013022015*	**13.70**	22.00	1.50	4.48
BS014018015*	**14.00**	18.70	1.50	4.24
BS014021015*	**14.70**	21.00	1.50	3.11
BS014022015*	**14.70**	22.00	1.50	4.48
BS014022015SC*	**14.70**	22.00	1.50	4.48

*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Usit rings series - CARBON STEEL/NBR

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BS016022015*	**16.00**	22.70	1.50	4.30
BS016023015*	**16.70**	23.00	1.50	3.17
BS016024015	**16.70**	24.00	1.50	4.95
BS016024015SC*	**16.70**	24.00	1.50	4.95
BS017022012*	**17.35**	22.70	1.25	3.29
BS017023015*	**17.40**	23.70	1.50	3.25
BS017023021	**17.20**	23.90	2.10	3.63
BS017024015*	**17.40**	24.00	1.50	4.87
BS018024015	**18.00**	24.70	1.50	4.91
BS018026015	**18.70**	26.00	1.50	5.01
BS018026015SC	**18.70**	26.00	1.50	5.01
BS018027015*	**18.70**	27.00	2.00	3.76
BS020028015	**20.70**	28.00	1.50	5.01
BS020029020*	**20.70**	29.00	2.00	3.87
BS021026012*	**21.65**	26.70	1.25	3.59
BS021028025	**21.50**	28.70	2.50	5.01
BS021030020*	**21.70**	30.00	2.00	4.10
BS022028015*	**22.50**	28.00	1.50	9.31
BS022030020*	**22.70**	30.00	2.00	5.56
BS022030030*	**22.70**	30.00	3.00	9.46
BS022031020*	**22.70**	31.00	2.00	4.10
BS023032020*	**23.70**	32.00	2.00	4.13
BS024032020*	**24.70**	32.00	2.00	5.56
BS024033020*	**24.70**	33.00	2.00	4.16
BS026035020*	**26.70**	35.00	2.00	6.16
BS027032012*	**27.30**	32.60	1.25	4.11
BS027032020*	**27.30**	32.60	2.00	4.26
BS027035020*	**27.00**	35.30	2.00	4.27

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BS027036020*	**27.20**	36.00	2.00	6.16
BS028036020*	**28.60**	36.00	2.00	4.28
BS028037020*	**28.70**	37.00	2.00	6.16
BS029037020*	**29.20**	37.50	2.00	4.32
BS030039020*	**30.70**	39.00	2.00	4.44
BS031039020*	**31.00**	39.00	2.00	6.16
BS033042020	**33.70**	42.00	2.00	6.49
BS034039020*	**34.20**	39.50	2.00	4.50
BS034043020*	**34.30**	43.00	2.00	6.49
BS036046020*	**36.70**	46.00	2.00	7.67
BS037048025*	**37.00**	48.00	2.50	6.34
BS040051025*	**40.00**	51.00	2.50	15.38
BS042049020*	**42.80**	49.50	2.00	8.29
BS042053030*	**42.70**	53.00	3.00	13.50
BS043054025*	**43.00**	54.00	2.50	8.14
BS046057025*	**46.00**	57.00	2.50	8.14
BS048055020*	**48.70**	55.50	2.00	7.44
BS048059030	**48.70**	59.00	3.00	13.59
BS049060025*	**49.00**	60.00	2.50	9.89
BS052060030*	**52.00**	60.00	3.00	16.36
BS053064030*	**53.30**	64.50	3.00	21.56
BS060068020*	**60.50**	68.50	2.00	11.02
BS060073030*	**60.70**	73.00	3.00	13.34
BS068079035*	**68.60**	79.50	3.50	31.56
BS076090033*	**76.08**	90.30	3.38	33.74
BS089101032*	**89.09**	101.48	3.25	36.28
BS127143050*	**127.00**	143.67	5.00	42.16

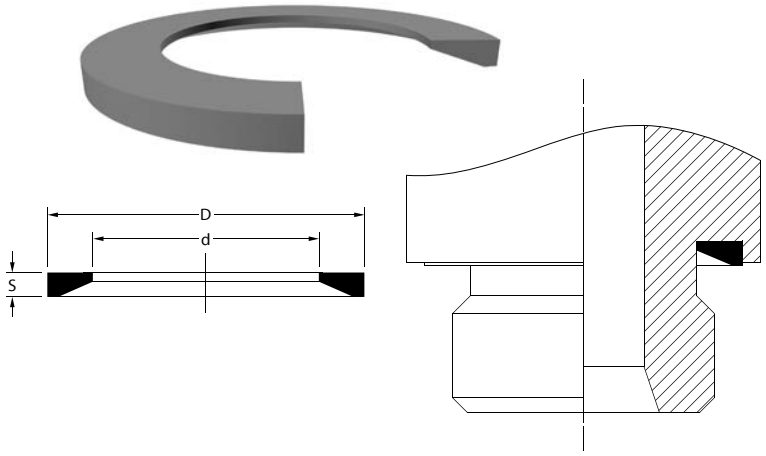
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



Usit Rings reference table

Nominal Seal Dimensions			Thread size			Nominal Seal Dimensions			Thread size		
d	D	h	Metric	Whitw. BSW	Gas BSP	d	D	H	Metric	Whitw. BSW	Gas BSP
3.10	6.40	1.00				18.70	26.00	1.50	M 18		
3.10	6.40	1.30		6 BA		20.70	28.00	1.50	M 20	3/4"	1/2"
3.10	7.30	1.15				21.50	28.70	2.50			1/2"
4.10	7.30	1.30	M 4	4 BA		22.70	30.00	2.00	M 22	7/8"	1/2"
4.50	7.00	1.00	M 4			23.50	31.80	2.50		7/8"	5/8"
5.21	8.38	1.22		2 BA		24.70	32.00	2.00	M 24		5/8"
5.70	9.00	1.00	M 5			26.70	35.00	2.00	M 26	1"	
5.70	10.00	1.00	M 5			27.00	35.00	2.50	M 26	1"	3/4"
6.20	9.20	1.00	M 5.5			27.20	36.00	2.00	M 26	1"	3/4"
6.70	10.00	1.00	M 6			28.70	37.00	2.00	M 28		
6.70	11.00	1.00	M 6	1/4"		29.30	36.60	2.50	M 28.5	1 1/8"	
6.70	11.00	2.50	M 6			31.00	39.00	2.00	M 30		7/8"
6.98	13.20	1.30	M 6	1/4"		32.60	41.40	3.40		1 1/4"	
7.00	13.40	1.30		1/4"		33.90	42.90	3.40	M 33	1 1/4"	1"
7.10	12.00	1.00		1/4"		34.30	43.00	2.00			1"
8.70	13.00	1.00	M 8	5/16"		36.70	46.00	2.00	M 36		
8.70	14.00	1.00	M 8			42.70	53.00	3.00	M 42		1/4"
8.70	14.20	1.30	M 8	5/16"		48.70	59.00	3.00	M 48	1 7/8"	1 1/2"
8.70	16.00	1.00	M 8	5/16"		51.70	63.50	3.40	M 48	2"	
9.30	13.10	1.00	M 8.5			52.00	50.00	3.00			
10.35	16.00	2.00			1/8"	53.30	64.50	3.00	M 52	2"	
10.70	16.00	1.50	M 10	3/8"	1/8"	54.90	69.80	3.25		2 1/8"	1 3/4"
10.70	18.00	1.50	M 10	3/8"	1/8"	60.70	73.00	3.00	M 56	2 1/4"	2
12.70	18.00	1.50	M 12			66.70	79.50	3.25			2 1/4"
12.70	20.00	1.50	M 12			68.60	79.50	3.50	M 68		
13.70	20.60	2.10	M 12	1/2"	1/4"	76.10	90.30	3.40	M 72	2 3/4"	2 1/2"
13.70	22.00	1.50	M 13		1/4"						
14.00	18.70	1.50	M 13.5								
14.70	22.00	1.50	M 14	1/2"	1/4"						
14.90	22.30	2.10	M 14	9/16"							
16.70	25.50	2.10	M 16	5/8"							
16.70	24.00	1.50	M 16	5/8"							
17.30	23.90	2.10			3/8"						
17.40	24.00	1.50			3/8"						
18.20	25.40	2.10									

ED - DIN Connector Rings - Metric



Standard Materials	Temperature Range
Nitrile /N	-22°F to +212°F (-30°C to +100°C)
Fluorocarbon /V	-4°F to +392°F (-20°C to +200°C)
Optional Material	**Temperature Range**
Ethylene-Propylene /E	-49°F to +302°F (-45°C to +150°C)

ED-Style sealing rings are mostly used to seal threaded tube connections and fittings. As torque is applied to the connector, the elastomeric seal material is compressed to form a positive sealing line, and its special geometry keeps it from twisting during installation.

Alternate Materials: For applications that may require an alternate material. please contact our customer service department. Other sizes available on request.

Part Number	For Male Metric Thread	For Male Thread BSPP	D (mm)	d (mm)	S (mm)	$ NBR /N	$ FPM /V
ED8X1X	M8X1		9.90	6.50	1.00	2.30	4.99
ED10X1X	M10X1	G1/8A	11.90	8.40	1.00	1.31	5.14
ED12X1.5X	M12X1.5		14.40	9.80	1.50	1.32	7.74
ED14X1.5X	M14X1.5	G1/4A	16.50	11.60	1.50	1.74	7.76
ED16X1.5X	M16X1.5		18.90	13.80	1.50	1.79	4.31
ED17X1.5X		G3/8A	18.90	14.70	1.50	1.81	4.36
ED18X1.5X	M18X1.5		20.90	15.70	1.50	1.87	4.48
ED20X1.5X	M20X1.5		22.90	17.80	1.50	2.31	6.01
ED21X1.5X		G1/2A	23.90	18.50	1.50	2.79	6.13
ED22X1.5X	M22X1.5		24.30	19.60	1.50	2.81	6.51
ED26X1.5X	M26X1.5	G3/4A	29.20	23.90	1.50	2.62	6.89
ED26X1.5X	M27X2	G3/4A	29.20	23.90	1.50	2.62	6.89
ED30X2X			32.70	27.70	2.00	4.01	7.74*
ED33X2X	M33X2	G1A	35.70	29.70	2.00	1.71	8.99
ED42X2X	M42X2	G11/4A	45.80	38.80	2.00	2.81	10.01
ED48X2X	M48X2	G11/2A	50.70	44.70	2.00	3.26	11.02
ED60X2X		G2A	56.30	67.00	3.20	3.89*	12.87*

OTHER PROFILES ARE ALSO AVAILABLE ON REQUEST

Though this product offering contains a wide selection of commonly used parts in the marketplace. it is possible that you haven't found the exact part you were looking for.

We have many other seal profiles available on request. please do not hesitate to contact us and we will do our best to help you locate the required part.







	CREDIT APPLICATION FORM	TECH	2
	SEAL APPLICATION REQUEST	TECH	3
	SPECIALITY SEAL MANUFACTURING SERVICES	TECH	4
	SELECTING CHART FOR SEAL	TECH	5
	MATERIAL FOR SEALING	TECH	6
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Credit Application Form

DATE: _____

CREDIT APPLICATION FORM

COMPANY INFORMATION

COMPANY NAME:			
BILLING ADDRESS:	CITY:	STATE:	ZIP:
SHIPPING ADDRESS:	CITY:	STATE:	ZIP:
BRANCH OFFICE:			
PHONE:	FAX:		
WEB SITE:	E-MAIL:		
BUSINESS STRUCTURE (SOLE OWNERSHIP, PARTNERSHIP, CORPORATION...):			
TYPE OF BUSINESS:	YEAR ESTABLISHED:	AT CURRENT ADDRESS SINCE:	
E.I.N #			
TAX EXEMPTION NUMBER (IF ANY):			
CREDIT AMOUNT REQUESTED:			
REQUESTED CREDIT (MONTHLY):			

OWNER / PRESIDENT:	
G.MANAGER:	
A / P MANAGER:	

BANK REFERENCES

NAME:	ADDRESS:
PHONE:	FAX:
CONTACT NAME:	

TRADE REFERENCES

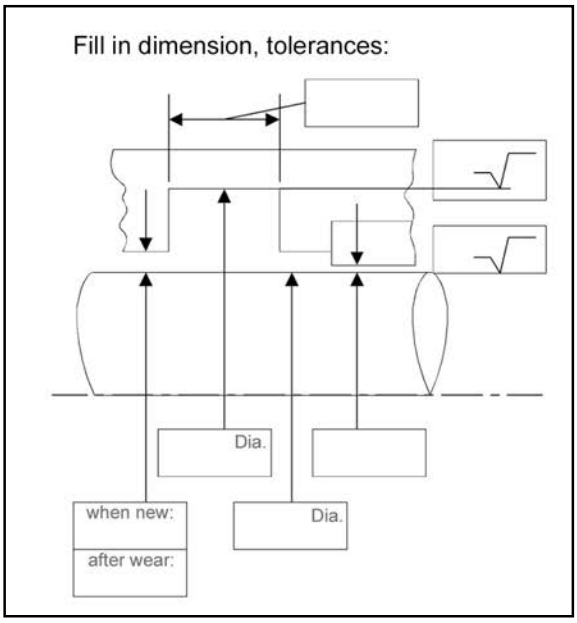
FIRM NAME:	CITY, STATE	PHONE	FAX
1.			
2.			
3.			

SIGNED BY: _____ TITLE: _____

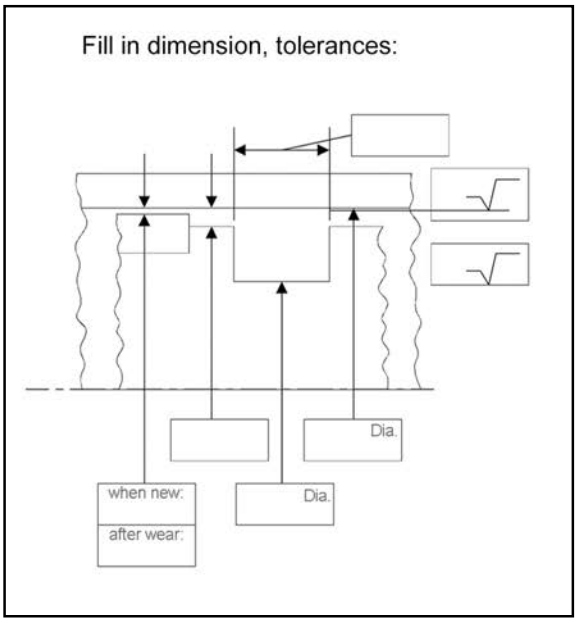
Seal Application Request

This Seal Application Request will enable us to assist you in your design request.

☐ ROD APPLICATION



☐ PISTON APPLICATION



FLUID to be sealed:_____ Viscosity:_____
PRESSURE: Normal:_____psi; min:_____ psi; max:_____psi
TEMPERATURE: normal:_____ °F; min:_____ °F; max:_____°F
SPEED: cycles/minutes:_____; length of stroke:_____ in.; average speed:_____

A: ☐ DYNAMIC SEAL ☐ STATIC SEAL
B: ☐ NEW DESIGN ☐ REPLACEMENT ☐ TYPE OF SEAL (SEE OUR DRAWING)

Quantity Required:_____

Application Assemby Prints with all necessary dimensions and tolerances should be supplied if possible.

Special Requirements for seal and specific environmental or operating conditions, should be described more completely:_____
_____
_____
_____
_____

Name: _____
Company: _____
Address: _____
City: _____
Zip: _____; State.: _____
Telephone: (__)_____
Fax: (__)_____

Specialty Seal Manufacturing Services

IN-HOUSE MACHINING AND COMPONENT FABRICATION

To meet your needs for special non-standard seals, oversized seals and related cylinder and pump components, we offer a complete range of in-house machining services. Save on expensive tooling charges and factory delivery lead times.

Up to 24" O.D. / 400,00 MM O.D, for immediate delivery
Up to 40" O.D. / 750-00 MM O.D. for deliveries within 2-3 weeks

Wear-rings, Bearings and Bushings, Piston Rings, Step Buffer Seals, U-Cup Seals
Loaded-Lip U-Cups, Back-up Rings, Modular Bearings, Vee-Packing Adaptors,
Piston Cup Seals, Wiper Seals and many other custom parts that we can machine or fabricate to suit your application requirements.

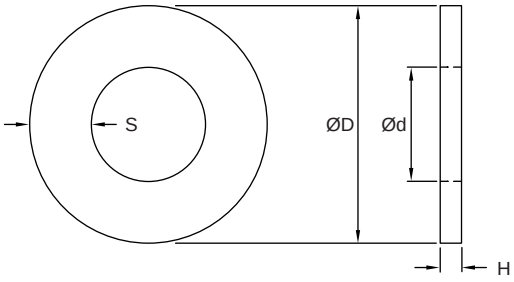
Select from any of our standard stock materials for machining your special parts:

PTFE (Teflon)		
TFE/GF 15		15% Glass filled PTFE
TFE/GF15M		15% Glass & Moly filled PTFE
	TFE/BR40	40% Bronze filled PTFE
	TFE/BR60	60% Bronze filled PTFE
	TFE/CG	Carbon-Graphite filled PTFE
NYLONS		
6TMOS2		Moly filled Nylon
NYLON-GF		Glass filled Nylon
NYLOIL		Mineral filled Nylon
THERMOPLASTICS		
DELRIN		Filled Acetal grades for low friction
PEEK		High temperature, high modulus materials
PPS		Filled Polyphenylene- Sulfide low swell
PHENOLIC		
DYNAMAX		High-Load Resin and Fabric composites

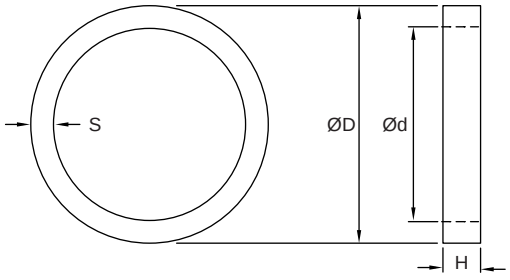
We can also offer Nitrile, Viton and other rubber materials for machined parts.

<u>Additional services available from our vast selection of materials and components:</u>
Vee Packings cut in-house to 40" / 1000MM Diameter
Vulcanized O-Rings: Any size of inch or metric cross sections in a complete range of standard and non-standard compounds. Proto-type and production quantities available for all special parts

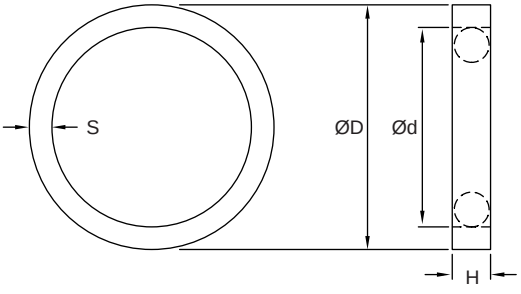
☐ **BACKUP RING**



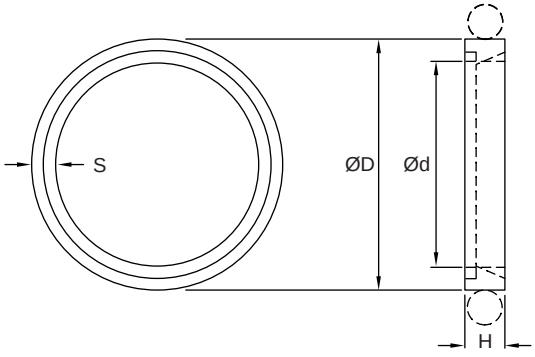
☐ **BEARING**



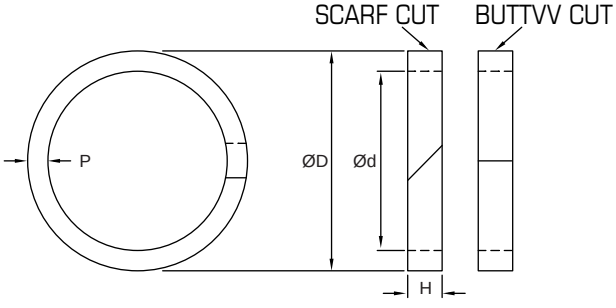
☐ **PISTON SEAL**



☐ **STEP SEAL**



☐ **WEAR RING**



☐ Inch ☐ Metric

Ød: _____ ± _____

ØD: _____ ± _____

H: _____ ± _____

S: _____ ± _____

Material For Sealing

Material	Temperature Range	Description
ELASTOMERIC MATERIALS		
Nitrile (Buna N; NBR)	-65°F to +250°F some to 275°F (-54°C to +121°C)	Most common polymer used in petroleum fluids, water and gas service and hydraulic fluids. Good abrasion resistance, tensile strength and compression set resistance.
Carboxylated Nitrile (Nitroxile; internally lubed)	-20°F to +250°F some to 275°F (-28°C to +121°C)	Carboxylated Nitriles are known for their extremely good abrasion resistance. Has excellent resistance to petroleum base oils, hydrocarbon fuels and water. Lubed versions offer exceptionally low friction characteristics.
Ethylene Propylene (EPM, EPDM)	-65°F to +300°F (-54°C to +149°C)	Good resistance to hydrogen-sulfide, brake fluid and carbon dioxide. Excellent resistance to hot steam, water, water base fluids, weak acids and alkalis. New formulations allow for use in steam to 600°F.
Fluorocarbons	-20°F to +400°F (-29°C to +204°C) (Serviceable to 450°F/232°C with lowered service life)	Resistance to corrosive gases and fluids is superior to Nitriles. Has good breadth of chemical resistance and wide temperature range. New formulations give excellent results in down-hole oilfield applications.
Chloropren (Neoprene; CR)	-45°F to +300°F (-43°C to +149°C)	Limited application in fluids such as liquified petroleum gases (LPG), ammonia (amines) and many freons. Oxidation resistance is excellent. Oil resistance moderate.
ELASTO PLASTIC MATERIALS		
Hythane	-40°F to +230°F (-40°C to +110°C)	Hythane® U-Ring . Low friction, high temperature, high performance general purpose seals.
PLASTIC ALLOY MATERIALS		
	-58°F to +248°F (-40°C to +120°C)	Hallite's Hymide 500 Series Seals have been developed to offer superior performance over standard polyurethane in arduous applications. Designed to provide hydraulic seals users with a cost effective solution for situations demanding higher pressure ratings, wider fluid compatibility, larger extrusion gaps and higher temperature resistance.

DEVELOPED BY THE O-RING DIVISION OF THE RUBBER MANUFACTURING ASSOCIATION, INC.

ABRASION
Progressive wearing away of material.

ABRASION RESISTANCE
The ability of a rubber Compound to resist mechanical wear.

ACCELERATED LIFE TEST
Any set of conditions designed to reproduce in a short time the deteriorating effect obtained under normal service conditions.

ACCELERATED SERVICE TEST
A service or bench test in which some service condition, such as speed, or temperature, or continuity of operation, is exaggerated in order to obtain a result in shorter time.

ACID RESISTANT
Withstands the action of acids.

ADHERE
To cling or stick together.

ADHESION
Susceptibility of rubber to stick to a contact surface.

AFTER CURE
Continuation of vulcanization after the desired cure is effected and the heat source removed.

AGING
To undergo changes in physical properties with age or lapse of time

AGING, AIR OVEN
A means of accelerating the change in physical properties of rubber Compounds by exposing them to the action of air at an elevated temperature.

AGING, AIR PRESSURE HEAT
A means of accelerating the change in physical properties of rubber Compounds by exposing them to the action of air under pressure at an elevated temperature.

AGING, OXYGEN BOMB
A means of accelerating the change in physical properties of rubber Compounds by exposing them to the action of oxygen at an elevated temperature and pressure.

AIR BOMB
Similar to an oxygen bomb but used with air. Used for accelerated aging test.

AIR CHECKS
Surface markings or depressions due to trapping air between the materials being cured and the mold or press surface.

AIR CURING
The vulcanization of a rubber product in air as distinguished from vulcanizing in a press or steam vulcanizer.

AMBIENT TEMPERATURE
The environment temperature surrounding the object under consideration.

ANILINE NO. OF OIL
Temperature at which a given amount of aniline reacts with a particular oil. The aniline point generally affects the swell.

ATMOSPHERIC CRACKING
Cracks produced in surface of rubber articles by exposure to atmospheric conditions.

AVERAGE MODULUS
Total change of stress divided by total change of strain, i.e., the average slope of the stress-strain curve. Employed when modulus varies from point to point.

BACK RIND
A burn-back into the part at a mold line separation caused by too soft a rubber stock, excessive acceleration, or too low a plasticity.

BACK-UP RING
Washer-like device installed next to O-Ring to prevent extrusion.

BENCH TEST
A modified service test in which the service conditions are approximated, but the equipment is conventional laboratory equipment and not necessarily identical with that in which the product will be employed.

BENDING MODULUS
Force required to induce bending around a given radius, and hence a measure of stiffness.

BLEEDING
Migration to the surface of plasticizers, waxes, or similar materials to form a film or beads.

BLEMISH
A mark, deformity, or injury which impairs the appearance.

BLISTERS
A raised spot on the surface or a separation between layers usually forming a void or air-filled space in the vulcanized article.

BLOOM
A discoloration or change in appearance of the surface of a rubber product caused by the migration of a liquid or solid to the surface. Examples: sulfur bloom, wax bloom. Not to be confused with dust on the surface from external sources.

BREAK
A separation or discontinuity in any part of an article.

BREAKOUT
Force to inaugurate sliding. Expressed in same terms as friction. An excessive breakout value is taken as an indication of the development of adhesion.

Glossary

BRITTLENESS
Tendency to crack when subjected to deformation.

BUNA N
A general term for the copolymers of butadiene and acrylonitrile. Typical commercial polymers are Hycar and Paracril.

BUNA S
A general term for the copolymers of butadiene and styrene.

BUTT JOINT
Joining two ends of material whereby the junction is perpendicular to the ID of an O-Ring.

BUTYL
A synthetic rubber of the polybutene type exhibiting very low permeability to gases.

COEFFICIENT OF THERMAL EXPANSION
Average expansion per degree over a stated temperature range, expressed in a fraction of initial dimension. May be linear or volumetric.

COLD FLEXIBILITY
Flexibility following exposure to a predetermined low temperature for a predetermined time.

COLD FLOW
Continued deformation under stress.

COLD RESISTANT
Withstands the effect of cold or low temperatures without loss of serviceability.

COMMERCIALLY SMOOTH
Degree of smoothness of the surface of an article which is acceptable for use.

COMPOUND
A term applied to either vulcanized or unvulcanized mixtures of elastomers and other ingredients necessary to make a useful rubber-like material.

COMPRESSION MODULUS
The ratio of the compressive stress to the resulting compressive strain (the latter expressed as a fraction of the original height or thickness in the direction of the force). Compression Modulus may be either static or dynamic.

COMPRESSION SET
The decrease in thickness of a rubber specimen which has been deformed under specific conditions of load, time and temperature.

CONDUCTIVE
A rubber having qualities of conducting or transmitting heat or electricity. Most generally applied to rubber products used to conduct static electricity.

CONDUCTIVITY
Quality or power of conducting or transmitting heat or electricity.

COPOLYMER
A polymer consisting of two different monomers chemically combined.

CORROSION (PACKING)
Corrosion of rigid member (usually metal) where it contacts packing. The actual corroding agent is fluid medium trapped in the interface.

CORROSIVE (PACKING)
A property of packing whereby it is assumed, often incorrectly, to promote corrosion of the rigid member by the trapped fluid.

CRACKING
A sharp break or fissure in the surface. Generally due to excessive strain.

CROSS-SECTION
An O-Ring as viewed if cut at right angles to the axis showing internal structure.

CURING DATE
O-Ring molding date.

CURING TEMPERATURE
The temperature at which the rubber product is vulcanized.

CYLINDER
Chamber in which piston, plunger, ram, rod, or shaft is driven by or against the pressure medium.

DUROMETER
An instrument for measuring the hardness of rubber. Measures the resistance to the penetration of an indentor point into the surface of rubber.

DYNAMIC
O-Ring application in which the O-Ring is subject to movement or moving parts.

DYNAMIC PACKING
A packing employed in a joint whose members are in relative motion.

DYNAMIC SEAL
A seal required to prevent leakage past parts which are in relative motion.

ELASTICITY
The property of an article which tends to return to its original shape after deformation.

ELASTIC LIMIT
The greatest stress which a material is capable of developing without a permanent deformation remaining upon complete release of the stress. In rubber, the elastic limit as above defined is very low and sometimes practically non-existent. Usually this term is replaced by various load limits for specific cases in which the resulting permanent deformations are not zero but are negligible.

ELASTOMER
A general term for elastic, rubber-like substances.

ELONGATION
Increase in length expressed numerically as a fraction or percentage of initial length.

EXTRUSION
Distortion, under pressure, of portion of seal into clearance between mating metal parts.

FILLER
Chemically inert, finely divided material added to the polymer to aid in processing and improving properties of abrasion resistance and strength - gives it varying degrees of hardness.

FLASH
Excess rubber left around rubber part after molding due to space between mating mold surfaces; removed by trimming.

FLEX CRACKING
A surface cracking induced by repeated bending or flexing.

FLEX LIFE
The relative ability of a rubber article to withstand dynamic bending stresses.

FLOCK
Fibers added to rubber Compounds.

FLOW CRACKS
Surface imperfections due to improper flow and failure of stock to knit or blend with itself during the molding operation.

FRICTION
Resistance to motion due to the contact of surfaces.

FRICTION, BREAKOUT
Initial or starting friction developed when employed as a dynamic seal.

FRICTION, RUNNING
Constant friction developed during operation of a dynamic O-Ring

FUEL, AROMATIC
Fuel which contains benzene or aromatic hydrocarbons.

FUEL, NON-AROMATIC
Fuel which is composed of straight chain hydrocarbons.

GLAND
Seal assembly, including O-Ring, groove which holds the O-Ring, and contacting surfaces.

HARDNESS
Property or extent of being hard. Measured by extent of failure of the indentor point or any one of a number of standard hardness testing instruments to penetrate the product.

HARDNESS SHORE A
Durometer reading in degrees of the hardness of the rubber. (Shore A hardness of 35 is soft; 90 is hard.)

HOMOGENEOUS
General - a material of uniform composition throughout.

HYCAR P.A.
Commercial name for polymer or acrylic acid ester.

HYPALON
Commercial name for chlorosulphonated derivative of polyethylene.

IDENTIFICATION
Colored dots or stripes on O-Rings for identification purposes.

IMMEDIATE SET
The deformation found by measurement immediately after removal of the load causing the deformation.

IMMERSION
Placing an article into a fluid, generally so it is completely covered.

IMPACT
The single instantaneous stroke or contact of a moving body with another either moving or at rest, such as a large lump of material dropping on a conveyor belt.

LIFE TEST
A laboratory procedure used to determine the amount and duration of resistance of a rubber article to a specific set of destructive forces or conditions.

LINEAR EXPANSION
Expansion in any one linear dimension or the average of all linear dimensions.

LOGY
Sluggish, low snap or recovery of a material.

LOW TEMPERATURE FLEXIBILITY
The ability of a rubber product to be flexed, bent or bowed at low temperatures.

LOW TEMPERATURE FLEXING
Act or instance of repeated bending or bowing a rubber product under conditions of low temperature.

MIRROR FINISH
A bright, polished surface.

MISALIGNMENT
Departure from alignment.

MISMATCH
Poor matching or meeting in splice.

MODULUS
Tensile stress at a specified elongation.

MODULUS OF ELASTICITY
One of the several measurements of stiffness or resistance to deformation, but often incorrectly used to indicate specifically static tension modulus.

MOLD CAVITY
Hollow space or cavity in the mold which is used to impart the desired form to the product being molded.

MOLD FINISH
The uninterrupted surface produced by intimate contact of rubber with the surface of the mold at vulcanization.

Glossary

MOLD MARKS
Indentations or ridges embossed into the skin of the molded product by irregularities in the mold cavity surface.

MOLD REGISTER
Means used to align the parts of a mold.

MOONEY SCORCH
The measurement of the rate at which a rubber Compound will precure or set up by means of the Mooney Viscometer.

MOONEY VISCOSITY
The measurement of the plasticity or viscosity of an uncompounded or compounded unvulcanized rubber and rubber-like materials by means of the Mooney Shearing Disk Viscometer.

NICK
A small notch, slit, or cut.

NOMINAL LENGTH
The desired length from which tolerances are set.

NON-BLOOMING
The absence of bloom.

OIL RESISTANT
Ability of a vulcanized rubber to resist the swelling and deteriorating effects of various type oils.

OIL SWELL
The change in volume of a rubber article due to absorption of oil.

O-RING
An elastomeric seal of homogeneous composition molded in one piece to the configuration of a torus with circular cross-section (doughnut). The O-Ring is used as a dynamic or static seal usually installed in a machined groove.

OPTIMUM CURE
State of vulcanization at which maximum desired property is attained.

OVER CURE
A degree of cure greater than the optimum.

OXIDATION
The reaction of oxygen on a rubber product, usually detected by a change in the appearance or feel of the surface or by a change in physical properties.

OXYGEN BOMB
A chamber capable of holding oxygen at an elevated pressure which can be heated to an elevated temperature. Used for an accelerated aging test.

OZONE RESISTANT
Withstands the deteriorating effects of ozone (generally cracking).

PACKING
A flexible device used to retain fluids under pressure or seal out foreign matter.

PACKING GROOVE
A groove carved in a flange, or in one member of a concentric joint, to accommodate a packing.

PERMANENT SET
Permanent set is the deformation remaining after a specimen has been stressed in tension a prescribed amount for a definite period and released for a definite period.

PERMEABILITY
Property of rubber or other materials which permits passage of gas through the molecular structure of the material.

PIT OR POCK MARK
A circular depression, usually small.

POLYMER
A material formed by the joining together of many (poly) individual units (mer) of a monomer.

POROSITY
Quality of state of being porous due to presence of globular structural voids.

REGISTER, OFF OR MISMATCH
Nonconformity of finished article with design dimensions due to mold misalignment during cure.

RELATIVE HUMIDITY
The ratio of the quantity of water vapor actually present in the atmosphere to the greatest amount possible at the given temperature.

RESILIENCE
Capable of returning to original size and shape after deformation.

RMS
Root mean square - The measure of surface roughness, obtained as the square root of the sum of the squares of micro-inch deviation from true flat.

ROUGH TRIM
Removal of superfluous parts by pulling or picking. Usually a small portion of the flash or sprue remains attached to the product.

RUBBER, NATURAL
Raw or crude rubber obtained from vegetable sources, basically the Unsaturated polymer of isoprene.

RUBBER, NITRILE (BUNA N)
Copolymer of butadiene and acrylonitrile; known commercially as Butaprene, Chemigum, Hycar OR, Perbunan and Paracril.

RUBBER, SILICONE
Semi-organic elastomer, containing silicone.

RUBBER, SYNTHETIC
Manufactured elastomers.

RUNOUT (SHAFT)
Same as Gyration. When expressed in inches alone or accompanied by abbreviation "TIR" (total indicator reading), it refers to twice the radial distance between shaft axis and axis of rotation.

SEAL
Any device used to prevent the passage of a gas or liquid.

SERVICE
Operating conditions to be met.

SHAFT
Rotating member within cylinder; not in contact with walls.

SHRINKAGE
Decreased volume of unit caused by air drying after immersion in fluid.

SIZE, ACTUAL
Actual dimensions of the O-Ring, including tolerance limits.

SIZE, NOMINAL
Approximate size of O-Ring in fractional dimensions.

SPECIFIC GRAVITY
The ratio of the weight of a given substance to the weight of an equal volume of water at a specified temperature.

SPRUE MARKS
Marks left on the surface of a rubber part, usually elevated, after removal of the sprue.

SQUEEZE
Cross-section diametral compression of O-Ring between bottom surface of the groove and surface of other mating metal part in the gland assembly.

STATIC
Stationary application such as a gasket.

STATIC SEAL
Seal designed to work between parts having no relative motion.

STRESS
Force per unit of original cross-sectional area required to stretch a specimen to a stated elongation.

SUN CHECKING
Surface cracks, checks, or crazing caused by exposure to direct or indirect sunlight.

SWELL
Increased volume of unit caused by immersion in fluid.

TEMPERATURE RANGE
Lowest temperature at which rubber remains flexible and highest temperature at which it will function.

TENSILE STRENGTH.
Force in pounds per square inch required to cause the rupture of a specimen of a rubber material.

TERPOLYMER
A polymer consisting of three different monomers chemically combined.

THIOKOL
A synthetic rubber of the polysulfide type.

THERMAL EXPANSION
Expansion caused by increase in temperature. May be linear and volumetric.

TORQUE
The turning power of a shaft.

TRIM
The process involving removal of mold flash.

TRIM CUT
Damage to mold skin or finish by too close trimming.

UNDER-CURE
Degree of cure less than optimum. May be evidenced by tackiness, loginess or inferior physical properties.

VOIDS
The absence of material or an area devoid of materials where not intended.

VISCOSITY
A manifestation of internal friction opposed to mobility. The property of fluids and plastic solids by which they resist an instantaneous change of shape, i.e, resistance to flow.

VOLUME CHANGE
Change in volume of a specimen which has been immersed in a designated fluid under specified condition of time and temperature. Expressed as a percentage of the original volume.

VOLUME SWELL
Increase in physical size caused by the swelling action of a liquid.

VULCANIZATION
A thermo-setting involving the use of heat and pressure and which results in greatly increased strength and elasticity of rubber-like materials.

WIDTH
Radial dimension. For packing rings or sets the term "packing space" is preferred.

WIPER RING
A ring employed to remove excess fluid, mud, etc., from a reciprocating member before it reaches the packing.

ISO Metric tolerance chart

NOMINAL SIZE RANGE	UNITS IN MM		TOLERANCES FOR INSIDE DIMENSIONS (HOLES) (UNITS IN 0.001 MM)											
	OVER	TO	A11	B8	B11	C11	D9	D10	D11	E8	E9	F6	F7	F8
	0	1	—	—	—	+120	+45	+60	+80	+28	+39	+12	+16	+20
			—	—	—	+60	+20	+20	+20	+14	+14	+6	+6	+6
	1	3	+330	+154	+200									
			+270	+140	+140									
	3	6	+345	+158	+215	+145	+60	+78	+105	+38	+50	+18	+22	+28
			+270	+140	+140	+70	+30	+30	+30	+20	+20	+10	+10	+10
	6	10	+370	+172	+240	+170	+76	+98	+130	+47	+61	+22	+28	+35
			+280	+150	+150	+80	+40	+40	+40	+25	+25	+13	+13	+13
	10	14	+400	+177	+260	+205	+93	+120	+160	+59	+75	+27	+34	+43
			+290	+150	+150	+95	+50	+50	+50	+32	+32	+16	+16	+16
	14	18												
	18	24	+430	+193	+290	+240	+117	+149	+195	+73	+92	+33	+41	+53
			+300	+160	+160	+110	+65	+65	+65	+40	+40	+20	+20	+20
	24	30												
	30	40	+470	+209	+330	+280	+142	+180	+240	+89	+112	+41	+50	+64
			+310	+170	+170	+120	+80	+80	+80	+50	+50	+25	+25	+25
	40	50	+480	+219	+340	+290								
			+320	+180	+180	+130								
	50	65	+530	+236	+380	+330	+174	+220	+290	+106	+134	+49	+60	+76
			+340	+190	+190	+140	+100	+100	+100	+60	+60	+30	+30	+30
	65	80	+550	+246	+390	+340								
			+360	+200	+200	+150								
	80	100	+600	+274	+440	+390	+207	+260	+340	+126	+159	+58	+71	+90
			+380	+220	+220	+170	+120	+120	+120	+72	+72	+36	+36	+36
	100	120	+630	+294	+460	+400								
			+410	+240	+240	+180								
	120	140	+710	+323	+510	+450	+245	+305	+395	+148	+185	+68	+83	+106
			+460	+260	+260	+200	+145	+145	+145	+85	+85	+43	+43	+43
	140	160	+770	+343	+530	+460								
			+520	+280	+280	+210								
	160	180	+830	+373	+560	+480								
			+580	+310	+310	+230								
	180	200	+950	+412	+630	+530	+285	+355	+460	+172	+215	+79	+96	+122
			+660	+340	+340	+240	+170	+170	+170	+100	+100	+50	+50	+50
	200	225	+1030	+452	+670	+550								
			+740	+380	+380	+260								
	225	250	+1110	+492	+710	+570								
			+820	+420	+420	+280								
	250	280	+1240	+561	+800	+620	+320	+400	+510	+191	+240	+88	+108	+137
			+920	+480	+480	+300	+190	+190	+190	+110	+110	+56	+56	+56
	280	315	+1370	+621	+860	+650								
			+1050	+540	+540	+330								
	315	355	+1560	+689	+960	+720	+350	+440	+570	+214	+265	+98	+119	+151
			+1200	+600	+600	+360	+210	+210	+210	+125	+125	+62	+62	+62
	355	400	+1710	+769	+1040	+760								
			+1350	+680	+680	+400								
	400	450	+1900	+857	+1160	+840	+385	+480	+630	+232	+290	+108	+131	+165
			+1500	+760	+760	+440	+230	+230	+230	+135	+135	+68	+68	+68
	450	500	+2050	+937	+1240	+880								
			+1650	+840	+840	+480								

ISO Metric tolerance chart

NOMINAL SIZE RANGE	UNITS IN MM		TOLERANCES FOR INSIDE DIMENSIONS (HOLES) (UNITS IN 0.001 MM)											
	OVER	TO	G6	G7	H5	H6	H7	H8	H9	H10	H11	H12	H13	J6
	0	1	+8 +2	+12 +2	+4 0	+6 0	+10 0	+14 0	+25 0	+40 0	+60 0	+100 0	+140 0	+2 -4
	1	3												
	3	6	+12 +4	+16 +4	+5 0	+8 0	+12 0	+18 0	+30 0	+48 0	+75 0	+120 0	+180 0	+5 -3
	6	10	+14 +5	+20 +5	+6 0	+9 0	+15 0	+22 0	+36 0	+58 0	+90 0	+150 0	+220 0	+5 -4
	10	14	+17 +6	+24 +6	+8 0	+11 0	+18 0	+27 0	+43 0	+70 0	+110 0	+180 0	+270 0	+6 -5
	14	18												
	18	24	+20 +7	+28 +7	+9 0	+13 0	+21 0	+33 0	+52 0	+84 0	+130 0	+210 0	+330 0	+8 -5
	24	30												
	30	40	+25 +9	+34 +9	+11 0	+16 0	+25 0	+39 0	+62 0	+100 0	+160 0	+250 0	+390 0	+10 -6
	40	50												
	50	65	+29 +10	+40 +10	+13 0	+19 0	+30 0	+46 0	+74 0	+120 0	+190 0	+300 0	+460 0	+13 -6
	65	80												
	80	100	+34 +12	+47 +12	+15 0	+22 0	+35 0	+54 0	+87 0	+140 0	+220 0	+350 0	+540 0	+16 -6
	100	120												
	120	140	+39 +14	+54 +14	+18 0	+25 0	+40 0	+63 0	+100 0	+160 0	+250 0	+400 0	+630 0	+18 -7
	140	160												
	160	180												
	180	200	+44 +15	+61 +15	+20 0	+29 0	+46 0	+72 0	+115 0	+185 0	+290 0	+460 0	+720 0	+22 -7
	200	225												
	225	250												
	250	280	+49 +17	+69 +17	+23 0	+32 0	+52 0	+81 0	+130 0	+210 0	+320 0	+520 0	+810 0	+25 -7
	280	315												
	315	355	+54 +18	+75 +18	+25 0	+36 0	+57 0	+89 0	+140 0	+230 0	+360 0	+570 0	+890 0	+29 -7
	355	400												
	400	450	+60 +20	+83 +20	+27 0	+40 0	+63 0	+97 0	+155 0	+250 0	+400 0	+630 0	+970 0	+33 7
	450	500												

ISO Metric tolerance chart

	UNITS IN MM		TOLERANCES FOR INSIDE DIMENSIONS (HOLES) (UNITS IN 0.001 MM)											
	OVER	TO	J7	J8	K6	K7	K8	M6	M7	M8	N6	N7	N8	R7
NOMINAL SIZE RANGE	0	1	+4 -6	+6 -8	0 -6	0 -10	0 -14	-2 -8	-2 -12	-2 -16	-4 -10	-4 -14	-4 -18	-10 -20
	1	3												
	3	6	+6 -6	+10 -8	+2 -6	+3 -9	+5 -13	-1 -9	0 -12	+2 -16	-5 -13	-4 -16	-2 -20	-11 -23
	6	10	+8 -7	+12 -10	+2 -7	+5 -10	+6 -16	-3 -12	0 -15	+1 -21	-7 -16	-4 -19	-3 -25	-13 -28
	10	14	+10 -8	+15 -12	+2 -9	+6 -12	+8 -19	-4 -15	0 -18	+2 -25	-9 -20	-5 -23	-3 -30	-16 -34
	14	18												
	18	24	+12 -9	+20 -13	+2 -11	+6 -15	+10 -23	-4 -17	0 -21	+4 -29	-11 -24	-7 -28	-3 -36	-20 -41
	24	30												
	30	40	+14 -11	+24 -15	+3 -13	+7 -18	+12 -27	-4 -20	0 -25	+5 -34	-12 -28	-8 -33	-3 -42	-25 -50
	40	50												
	50	65	+18 -12	+28 -18	+4 -15	+9 -21	+14 -32	-5 -24	0 -30	+5 -41	-14 -33	-9 -39	-4 -50	-30 -60
	65	80												-32 -62
	80	100	+22 -13	+34 -20	+4 -18	+10 -25	+16 -38	-6 -28	0 -35	+6 -48	-16 -38	-10 -45	-4 -58	-38 -73
	100	120												-41 -76
	120	140	+26 -14	+41 -22	+4 -21	+12 -28	+20 -43	-8 -33	0 -40	+8 -55	-20 -45	-12 -52	-4 -67	-48 -88
	140	160												-50 -90
	160	180												-53 -93
	180	200	+30 -16	+47 -25	+5 -24	+13 -33	+22 -50	-8 -37	0 -46	+9 -63	-22 -51	-14 -60	-5 -77	-60 -106
	200	225												-63 -109
	225	250												-67 -113
	250	280	+36 -16	+55 -26	+5 -27	+16 -36	+25 -56	-9 -41	0 -52	+9 -72	-25 -57	-14 -66	-5 -86	-74 -126
	280	315												-78 -130
	315	355	+39 -18	+60 -29	+7 -29	+17 -40	+28 -61	-10 -46	0 -57	+11 -78	-26 -62	-16 -73	-5 -94	-87 -144
	355	400												-93 -150
	400	450	+43 -20	+66 -31	+8 -32	+18 -45	+29 -68	-10 -50	0 -63	+11 -86	-27 -67	-17 -80	-6 -103	-103 -166
	450	500												-109 -172

ISO Metric tolerance chart

	UNITS IN MM		TOLERANCES FOR INSIDE DIMENSIONS (HOLES) (Units in 0.001mm)												
	OVER	TO	JS6	JS7	JS8	JS9	JS10	JS11	JS12	JS13	JS14	JS15	JS16	JS17	JS18
NOMINAL SIZE RANGE	0	1	+3 -3	+5 -5	+7 -7	+12.5 -12.5	+20 -20	+30 -30	+50 -50	+70 -70	+125 -125	+200 -200	+300 -300	— —	— —
	1	3													
	3	6	+4 -4	+6 -6	+9 -9	+15 -15	+24 -24	+37.5 -37.5	+60 -60	+90 -90	+150 -150	+240 -240	+375 -375	— —	— —
	6	10	+4.5 -4.5	+7.5 -7.5	+11 -11	+18 -18	+29 -29	+45 -45	+75 -75	+110 -110	+180 -180	+290 -290	+450 -450	+750 -750	— —
	10	14	+5.5 -5.5	+9 -9	+13.5 -13.5	+21.5 -21.5	+35 -35	+55 -55	+90 -90	+135 -135	+215 -215	+350 -350	+550 -550	+900 -900	+1350 -1350
	14	18													
	18	24	+6.5 -6.5	+10.5 -10.5	+16.5 -16.5	+26 -26	+42 -42	+65 -65	+105 -105	+165 -165	+260 -260	+420 -420	+650 -650	+1050 -1050	+1650 -1650
	24	30													
	30	40	+8 -8	+12.5 -12.5	+19.5 -19.5	+31 -31	+50 -50	+80 -80	+125 -125	+195 -195	+310 -310	+500 -500	+800 -800	+1250 -1250	+1950 -1950
	40	50													
	50	65	+9.5 -9.5	+15 -15	+23 -23	+37 -37	+60 -60	+95 -95	+150 -150	+230 -230	+370 -370	+600 -600	+950 -950	+1500 -1500	+2300 -2300
	65	80													
	80	100	+11 -11	+17.5 -17.5	+27 -27	+43.5 -43.5	+70 -70	+110 -110	+175 -175	+270 -270	+435 -435	+700 -700	+1100 -1100	+1750 -1750	+2700 -2700
	100	120													
	120	140	+12.5 -12.5	+20 -20	+31.5 -31.5	+50 -50	+80 -80	+125 -125	+200 -200	+315 -315	+500 -500	+800 -800	+1250 -1250	+2000 -2000	+3150 -3150
	140	160													
	160	180													
	180	200	+14.5 -14.5	+23 -23	+36 -36	+57.5 -57.5	+92.5 -92.5	+145 -145	+230 -230	+360 -360	+575 -575	+925 -925	+1450 -1450	+2300 -2300	+3600 -3600
	200	225													
	225	250													
	250	280	+16 -16	+26 -26	+40.5 -40.5	+65 -65	+105 -105	+160 -160	+260 -260	+405 -405	+650 -650	+1050 -1050	+1600 -1600	+2600 -2600	+4050 -4050
	280	315													
	315	355	+18 -18	+28.5 -28.5	+44.5 -44.5	+70 -70	+115 -115	+180 -180	+285 -285	+445 -445	+700 -700	+1150 -1150	+1800 -1800	+2850 -2850	+4450 -4450
	355	400													
	400	450	+20 -20	+31.5 -31.5	+48.5 -48.5	+77.5 -77.5	+125 -125	+200 -200	+315 -315	+485 -485	+775 -775	+1250 -1250	+2000 -2000	+3150 -3150	+4850 -4850
	450	500													

ISO Metric tolerance chart

	UNITS IN MM		TOLERANCES FOR OUTSIDE DIMENSIONS (SHAFTS) (Units in 0.001mm)											
	OVER	**TO**	**a11**	**b8**	**b11**	**c11**	**d9**	**d10**	**d11**	**e7**	**e8**	**e9**	**f6**	**f7**	**f8**
NOMINAL SIZE RANGE	0	1	—	—	—	-60	-20	-20	-20	-14	-14	-14	-6	-6	-6
	1	3	-270 -330	-140 -154	-140 -200	-120	-45	-60	-80	-24	-28	-39	-12	-16	-20
	3	6	-270 -345	-140 -158	-140 -215	-70 -145	-30 -60	-30 -78	-30 -105	-20 -32	-20 -38	-20 -50	-10 -18	-10 -22	-10 -28
	6	10	-280 -370	-150 -172	-150 -240	-80 -170	-40 -76	-40 -98	-40 -130	-25 -40	-25 -47	-25 -61	-13 -22	-13 -28	-13 -35
	10	14	-290 -400	-150 -177	-150 -260	-95 -205	-50 -93	-50 -120	-50 -160	-32 -50	-32 -59	-32 -75	-16 -27	-16 -34	-16 -43
	14	18													
	18	24	-300 -430	-160 -193	-160 -290	-110 -240	-65 -117	-65 -149	-65 -195	-40 -61	-40 -73	-40 -92	-20 -33	-20 -41	-20 -53
	24	30													
	30	40	-310 -470	-170 -209	-170 -330	-120 -280	-80 -142	-80 -180	-80 -240	-50 -75	-50 -89	-50 -112	-25 -41	-25 -50	-25 -64
	40	50	-320 -480	-180 -219	-180 -340	-130 -290									
	50	65	-340 -530	-190 -236	-190 -380	-140 -330	-100 -174	-100 -220	-100 -290	-60 -90	-60 -106	-60 -134	-30 -49	-30 -60	-30 -76
	65	80	-360 -550	-200 -246	-200 -390	-150 -340									
	80	100	-380 -600	-220 -274	-220 -440	-170 -390	-120 -207	-120 -260	-120 -340	-72 -107	-72 -126	-72 -159	-36 -58	-36 -71	-36 -90
	100	120	-410 -630	-240 -294	-240 -460	-180 -400									
	120	140	-460 -710	-260 -323	-260 -510	-200 -450	-145 -245	-145 -305	-145 -395	-85 -125	-85 -148	-85 -185	-43 -68	-43 -83	-43 -106
	140	160	-520 -770	-280 -343	-280 -530	-210 -460									
	160	180	-580 -830	-310 -373	-310 -560	-230 -480									
	180	200	-660 -950	-340 -412	-340 -630	-240 -530	-170 -285	-170 -355	-170 -460	-100 -146	-100 -172	-100 -215	-50 -79	-50 -96	-50 -122
	200	225	-740 -1030	-380 -452	-380 -670	-260 -550									
	225	250	-820 -1110	-420 -492	-420 -710	-280 -570									
	250	280	-920 -1240	-480 -561	-480 -800	-300 -620	-190 -320	-190 -400	-190 -510	-110 -162	-110 -191	-110 -240	-56 -88	-56 -108	-56 -137
	280	315	-1050 -1370	-540 -621	-540 -860	-330 -650									
	315	355	-1200 -1560	-600 -689	-600 -960	-360 -720	-210 -350	-210 -440	-210 -570	-125 -182	-125 -214	-125 -265	-62 -98	-62 -119	-62 -151
	355	400	-1350 -1710	-680 -769	-680 -1040	-400 -760									
	400	450	-1500 -1900	-760 -857	-760 -1160	-440 -840	-230 -385	-230 -480	-230 -630	-135 -198	-135 -232	-135 -290	-68 -108	-68 -131	-68 -165
	450	500	-1650 -2050	-840 -937	-840 -1240	-480 -880									

	UNITS IN MM		TOLERANCES FOR OUTSIDE DIMENSIONS (SHAFTS) (Units in 0.001mm)												
	OVER	TO	f9	g5	g6	g7	h4	h5	h6	h7	h8	h9	h10	h11	j5
NOMINAL SIZE RANGE	0	1	-6 -31	-2 -6	-2 -8	-2 -12	0 -3	0 -4	0 -6	0 -10	0 -14	0 -25	0 -40	0 -60	+2 -2
	1	3													
	3	6	-10 -40	-4 -9	-4 -12	-4 -16	0 -4	0 -5	0 -8	0 -12	0 -18	0 -30	0 -48	0 -75	+3 -2
	6	10	-13 -49	-5 -11	-5 -14	-5 -20	0 -4	0 -6	0 -9	0 -15	0 -22	0 -36	0 -58	0 -90	+4 -2
	10	14	-16 -59	-6 -14	-6 -17	-6 -24	0 -5	0 -8	0 -11	0 -18	0 -27	0 -43	0 -70	0 -110	+5 -3
	14	18													
	18	24	-20 -72	-7 -16	-7 -20	-7 -28	0 -6	0 -9	0 -13	0 -21	0 -33	0 -52	0 -84	0 -130	+5 -4
	24	30													
	30	40	-25 -87	-9 -20	-9 -25	-9 -34	0 -7	0 -11	0 -16	0 -25	0 -39	0 -62	0 -100	0 -160	+6 -5
	40	50													
	50	65	-30 -104	-10 -23	-10 -29	-10 -40	0 -8	0 -13	0 -19	0 -30	0 -46	0 -74	0 -120	0 -190	+6 -7
	65	80													
	80	100	-36 -123	-12 -27	-12 -34	-12 -47	0 -10	0 -15	0 -22	0 -35	0 -54	0 -87	0 -140	0 -220	+6 -9
	100	120													
	120	140	-43 -143	-14 -32	-14 -39	-14 -54	0 -12	0 -18	0 -25	0 -40	0 -63	0 -100	0 -160	0 -250	+7 -11
	140	160													
	160	180													
	180	200	-50 -165	-15 -35	-15 -44	-15 -61	0 -14	0 -20	0 -29	0 -46	0 -72	0 -115	0 -185	0 -290	+7 -13
	200	225													
	225	250													
	250	280	-56 -186	-17 -40	-17 -49	-17 -69	0 -16	0 -23	0 -32	0 -52	0 -81	0 -130	0 -210	0 -320	+7 -16
	280	315													
	315	355	-62 -202	-18 -43	-18 -54	-18 -75	0 -18	0 -25	0 -36	0 -57	0 -89	0 -140	0 -230	0 -360	+7 -18
	355	400													
	400	450	-68 -223	-20 -47	-20 -60	-20 -83	0 -20	0 -27	0 -40	0 -63	0 -97	0 -155	0 -250	0 -400	+7 -20
	450	500													

ISO Metric tolerance chart

	UNITS IN MM		TOLERANCES FOR OUTSIDE DIMENSIONS (SHAFTS) (Units in 0.001mm)											
	OVER	TO	j6	j7	k5	k6	k7	k8	m5	m6	m7	n5	n6	n7	r6
NOMINAL SIZE RANGE	0	1	+4 -2	+6 -4	+4 0	+6 0	+10 0	+14 0	+6 +2	+8 +2	+12 +2	+8 +4	+10 +4	+14 +4	+16 +10
	1	3													
	3	6	+6 -2	+8 -4	+6 +1	+9 +1	+13 +1	+18 0	+9 +4	+12 +4	+16 +4	+13 +8	+16 +8	+20 +8	+23 +15
	6	10	+7 -2	+10 -5	+7 +1	+10 +1	+16 +1	+22 0	+12 +6	+15 +6	+21 +6	+16 +10	+19 +10	+25 +10	+28 +19
	10	14	+8 -3	+12 -6	+9 +1	+12 +1	+19 +1	+27 0	+15 +7	+18 +7	+25 +7	+20 +12	+23 +12	+30 +12	+34 +23
	14	18													
	18	24	+9 -4	+13 -8	+11 +2	+15 +2	+23 +2	+33 0	+17 +8	+21 +8	+29 +8	+24 +15	+28 +15	+36 +15	+41 +28
	24	30													
	30	40	+11 -5	+15 -10	+13 +2	+18 +2	+27 +2	+39 0	+20 +9	+25 +9	+34 +9	+28 +17	+33 +17	+42 +17	+50 +34
	40	50													
	50	65	+12 -7	+18 -12	+15 +2	+21 +2	+32 +2	+46 0	+24 +11	+30 +11	+41 +11	+33 +20	+39 +20	+50 +20	+60 +41
	65	80													+62 +43
	80	100	+13 -9	+20 -15	+18 +3	+25 +3	+38 +3	+54 0	+28 +13	+35 +13	+48 +13	+38 +23	+45 +23	+58 +23	+73 +51
	100	120													+76 +54
	120	140	+14 -11	+22 -18	+21 +3	+28 +3	+43 +3	+63 0	+33 +15	+40 +15	+55 +15	+45 +27	+52 +27	+67 +27	+88 +63
	140	160													+90 +65
	160	180													+93 +68
	180	200	+16 -13	+25 -21	+24 +4	+33 +4	+50 +4	+72 0	+37 +17	+46 +17	+63 +17	+51 +31	+60 +31	+77 +31	+106 +77
	200	225													+109 +80
	225	250													+113 +84
	250	280	+16 -16	+26 -26	+27 +4	+36 +4	+56 +4	+81 0	+43 +20	+52 +20	+72 +20	+57 +34	+66 +34	+86 +34	+126 +94
	280	315													+130 +98
	315	355	+18 -18	+29 -28	+29 +4	+40 +4	+61 +4	+89 0	+46 +21	+57 +21	+78 +21	+62 +37	+73 +37	+94 +37	+144 +108
	355	400													+150 +114
	400	450	+20 -20	+31 -32	+32 +5	+45 +5	+68 +5	+97 0	+50 +23	+63 +23	+86 +23	+67 +40	+80 +40	+103 +40	+166 +126
	450	500													+172 +132

ISO Metric tolerance chart

	UNITS IN MM		TOLERANCES FOR OUTSIDE DIMENSIONS (SHAFTS) (Units in 0.001mm)												
	OVER	TO	js6	js7	js8	js9	js10	js11	js12	js13	js14	js15	js16	js17	js18
NOMINAL SIZE RANGE	0	1	+3 -3	+5 -5	+7 -7	+12.5 -12.5	+20 -20	+30 -30	+50 -50	+70 -70	+125 -125	+200 -200	+300 -300	— —	— —
	1	3													
	3	6	+4 -4	+6 -6	+9 -9	+15 -15	+24 -24	+37.5 -37.5	+60 -60	+90 -90	+150 -150	+240 -240	+375 -375	— —	— —
	6	10	+4.5 -4.5	+7.5 -7.5	+11 -11	+18 -18	+29 -29	+45 -45	+75 -75	+110 -110	+180 -180	+290 -290	+450 -450	+750 -750	— —
	10	14	+5.5 -5.5	+9 -9	+13.5 -13.5	+21.5 -21.5	+35 -35	+55 -55	+90 -90	+135 -135	+215 -215	+350 -350	+550 -550	+900 -900	+1350 -1350
	14	18													
	18	24	+6.5 -6.5	+10.5 -10.5	+16.5 -16.5	+26 -26	+42 -42	+65 -65	+105 -105	+165 -165	+260 -260	+420 -420	+650 -650	+1050 -1050	+1650 -1650
	24	30													
	30	40	+8 -8	+12.5 -12.5	+19.5 -19.5	+31 -31	+50 -50	+80 -80	+125 -125	+195 -195	+310 -310	+500 -500	+800 -800	+1250 -1250	+1950 -1950
	40	50													
	50	65	+9.5 -9.5	+15 -15	+23 -23	+37 -37	+60 -60	+95 -95	+150 -150	+230 -230	+370 -370	+600 -600	+950 -950	+1500 -1500	+2300 -2300
	65	80													
	80	100	+11 -11	+17.5 -17.5	+27 -27	+43.5 -43.5	+70 -70	+110 -110	+175 -175	+270 -270	+435 -435	+700 -700	+1100 -1100	+1750 -1750	+2700 -2700
	100	120													
	120	140	+12.5 -12.5	+20 -20	+31.5 -31.5	+50 -50	+80 -80	+125 -125	+200 -200	+315 -315	+500 -500	+800 -800	+1250 -1250	+2000 -2000	+3150 -3150
	140	160													
	160	180													
	180	200	+14.5 -14.5	+23 -23	+36 -36	+57.5 -57.5	+92.5 -92.5	+145 -145	+230 -230	+360 -360	+575 -575	+925 -925	+1450 -1450	+2300 -2300	+3600 -3600
	200	225													
	225	250													
	250	280	+16 -16	+26 -26	+40.5 -40.5	+65 -65	+105 -105	+160 -160	+260 -260	+405 -405	+650 -650	+1050 -1050	+1600 -1600	+2600 -2600	+4050 -4050
	280	315													
	315	355	+18 -18	+28.5 -28.5	+44.5 -44.5	+70 -70	+115 -115	+180 -180	+285 -285	+445 -445	+700 -700	+1150 -1150	+1800 -1800	+2850 -2850	+4450 -4450
	355	400													
	400	450	+20 -20	+31.5 -31.5	+48.5 -48.5	+77.5 -77.5	+125 -125	+200 -200	+315 -315	+485 -485	+775 -775	+1250 -1250	+2000 -2000	+3150 -3150	+4850 -4850
	450	500													

O'Ring Size Chart - Inch

AS 568A Uniform Dash Number	Nominal Size Inches		Actual Size Millimeters
	ID	OD	ID
- 001 *	1/32	3/32	0.74
- 002 *	3/64	9/64	1.07
- 003 *	1/16	3/16	1.42
1/16" - Cross Section (S) - 0.070" - 1.78 mm			
- 004	5/64	13/64	1.78
- 005	3/32	7/32	2.57
- 006	1/8	1/4	2.90
- 007	5/32	9/32	3.68
- 008	3/16	5/16	4.47
- 009	7/32	11/32	5.28
- 010	1/4	3/8	6.07
- 011	5/16	7/16	7.65
- 012	3/8	1/2	9.25
- 013	7/16	9/16	10.82
- 014	1/2	5/8	12.42
- 015	9/16	11/16	14.00
- 016	5/8	3/4	15.60
- 017	11/16	13/16	17.17
- 018	3/4	7/8	18.77
- 019	13/16	15/16	20.35
- 020	7/8	1	21.95
- 021	15/16	1 1/16	23.52
- 022	1	1 1/8	25.12
- 023	1 1/16	1 3/16	26.70
- 024	1 1/8	1 1/4	28.30
- 025	1 3/16	1 5/16	29.87
- 026	1 1/4	1 3/8	31.47
- 027	1 5/16	1 7/16	33.05
- 028	1 3/8	1 1/2	34.65
- 029	1 1/2	1 5/8	37.82
- 030	1 5/8	1 3/4	41.00
- 031	1 3/4	1 7/8	44.17
- 032	1 7/8	2	47.35
- 033	2	2 1/8	50.52
- 034	2 1/8	2 1/4	53.70
- 035	2 1/4	2 3/8	56.87
- 036	2 3/8	2 1/2	60.05
- 037	2 1/2	2 5/8	63.22
- 038	2 5/8	2 3/4	66.40
- 039	2 3/4	2 7/8	69.57
- 040	2 7/8	3	72.75
- 041	3	3 1/8	75.92
- 042	3 1/4	3 3/8	82.27
- 043	3 1/2	3 5/8	88.62
- 044	3 3/4	3 7/8	94.97
- 045	4	4 1/8	101.32
- 046	4 1/4	4 3/8	107.67
- 047	4 1/2	4 5/8	114.02
- 048	4 3/4	4 7/8	120.37
- 049	5	5 1/8	126.72
- 050	5 1/4	5 3/8	133.07
3/32" - Cross Section (S) - 0.103" - 2.62 mm			
- 102	1/16	1/4	1.24
- 103	3/32	9/32	2.06
- 104	1/8	5/16	2.84
- 105	5/32	11/32	3.63
- 106	3/16	3/8	4.42
- 107	7/32	13/32	5.23
- 108	1/4	7/16	6.02
- 109	5/16	1/2	7.59
- 110	3/8	9/16	9.19
- 111	7/16	5/8	10.77
- 112	1/2	11/16	12.37
- 113	9/16	3/4	13.94
- 114	5/8	13/16	15.54
- 115	11/16	7/8	17.12
- 116	3/4	15/16	18.72
- 117	13/16	1	20.30

AS 568A Uniform Dash Number	Nominal Size Inches		Actual Size Millimeters
	ID	OD	ID
- 118	7/8	1 1/16	21.89
- 119	15/16	1 1/8	23.47
- 120	1	1 3/16	25.07
- 121	1 1/16	1 1/4	26.64
- 122	1 1/8	1 5/16	28.24
- 123	1 3/16	1 3/8	29.82
- 124	1 1/4	1 7/16	31.42
- 125	1 5/16	1 1/2	32.99
- 126	1 3/8	1 9/16	34.59
- 127	1 7/16	1 5/8	36.17
- 128	1 1/2	1 11/16	37.77
- 129	1 9/16	1 3/4	39.34
- 130	1 5/8	1 13/16	40.94
- 131	1 11/16	1 7/8	42.52
- 132	1 3/4	1 15/16	44.12
- 133	1 13/16	2	45.69
- 134	1 7/8	2 1/16	47.29
- 135	1 15/16	2 1/8	48.90
- 136	2	2 3/16	50.47
- 137	2 1/16	2 1/4	52.07
- 138	2 1/8	2 5/16	53.64
- 139	2 3/16	2 3/8	55.25
- 140	2 1/4	2 7/16	56.82
- 141	2 5/16	2 1/2	58.42
- 142	2 3/8	2 9/16	59.99
- 143	2 7/16	2 5/8	61.60
- 144	2 1/2	2 11/16	63.17
- 145	2 9/16	2 3/4	64.77
- 146	2 5/8	2 13/16	66.34
- 147	2 11/16	2 7/8	67.95
- 148	2 3/4	2 15/16	69.52
- 149	2 13/16	3	71.12
- 150	2 7/8	3 1/16	72.69
- 151	3	3 3/16	75.87
- 152	3 1/4	3 7/16	82.22
- 153	3 1/2	3 11/16	88.57
- 154	3 3/4	3 15/16	94.92
- 155	4	4 3/16	101.27
- 156	4 1/4	4 7/16	107.62
- 157	4 1/2	4 11/16	113.97
- 158	4 3/4	4 15/16	120.32
- 159	5	5 3/16	126.67
- 160	5 1/4	5 7/16	133.02
- 161	5 1/2	5 11/16	139.37
- 162	5 3/4	5 15/16	145.72
- 163	6	6 3/16	152.07
- 164	6 1/4	6 7/16	158.42
- 165	6 1/2	6 11/16	164.77
- 166	6 3/4	6 15/16	171.12
- 167	7	7 3/16	177.47
- 168	7 1/4	7 7/16	183.82
- 169	7 1/2	7 11/16	190.17
- 170	7 3/4	7 15/16	196.52
- 171	8	8 3/16	202.87
- 172	8 1/4	8 7/16	209.22
- 173	8 1/2	8 11/16	215.57
- 174	8 3/4	8 15/16	221.92
- 175	9	9 3/16	228.27
- 176	9 1/4	9 7/16	234.62
- 177	9 1/2	9 11/16	240.97
- 178	9 3/4	9 15/16	247.32
1/8" - Cross Section (S) - 0.139" - 3.53 mm			
- 201	3/16	7/16	4.34
- 202	1/4	1/2	5.94
- 203	5/16	9/16	7.52
- 204	3/8	5/8	9.12
- 205	7/16	11/16	10.69
- 206	1/2	3/4	12.29
- 207	9/16	13/16	13.87

AS 568A Uniform Dash Number	Nominal Size Inches		Actual Size Millimeters
	ID	OD	ID
- 208	5/8	7/8	15.47
- 209	11/16	15/16	17.04
- 210	3/4	1	18.64
- 211	13/16	1 1/16	20.22
- 212	7/8	1 1/8	21.82
- 213	15/16	1 3/16	23.39
- 214	1	1 1/4	24.99
- 215	1 1/16	1 5/16	26.57
- 216	1 1/8	1 3/8	28.17
- 217	1 3/16	1 7/16	29.74
- 218	1 1/4	1 1/2	31.34
- 219	1 5/16	1 9/16	32.92
- 220	1 3/8	1 5/8	34.52
- 221	1 7/16	1 11/16	36.09
- 222	1 1/2	1 3/4	37.69
- 223	1 5/8	1 7/8	40.87
- 224	1 3/4	2	44.04
- 225	1 7/8	2 1/8	47.22
- 226	2	2 1/4	50.39
- 227	2 1/8	2 3/8	53.57
- 228	2 1/4	2 1/2	56.74
- 229	2 3/8	2 5/8	59.92
- 230	2 1/2	2 3/4	63.09
- 231	2 5/8	2 7/8	66.27
- 232	2 3/4	3	69.44
- 233	2 7/8	3 1/8	72.62
- 234	3	3 1/4	75.79
- 235	3 1/8	3 3/8	78.97
- 236	3 1/4	3 1/2	82.14
- 237	3 3/8	3 5/8	85.32
- 238	3 1/2	3 3/4	88.49
- 239	3 5/8	3 7/8	91.67
- 240	3 3/4	4	94.84
- 241	3 7/8	4 1/8	98.02
- 242	4	4 1/4	101.19
- 243	4 1/8	4 3/8	104.37
- 244	4 1/4	4 1/2	107.54
- 245	4 3/8	4 5/8	110.72
- 246	4 1/2	4 3/4	113.89
- 247	4 5/8	4 7/8	117.07
- 248	4 3/4	5	120.24
- 249	4 7/8	5 1/8	123.42
- 250	5	5 1/4	126.59
- 251	5 1/8	5 3/8	129.77
- 252	5 1/4	5 1/2	132.94
- 253	5 3/8	5 5/8	136.12
- 254	5 1/2	5 3/4	139.29
- 255	5 5/8	5 7/8	142.47
- 256	5 3/4	6	145.64
- 257	5 7/8	6 1/8	148.82
- 258	6	6 1/4	151.99
- 259	6 1/4	6 1/2	158.34
- 260	6 1/2	6 3/4	164.69
- 261	6 3/4	7	171.04
- 262	7	7 1/4	177.39
- 263	7 1/4	7 1/2	183.74
- 264	7 1/2	7 3/4	190.09
- 265	7 3/4	8	196.40
- 266	8	8 1/4	202.79
- 267	8 1/4	8 1/2	209.14
- 268	8 1/2	8 3/4	215.49
- 269	8 3/4	9	221.84
- 270	9	9 1/4	228.19
- 271	9 1/4	9 1/2	234.54
- 272	9 1/2	9 3/4	240.89
- 273	9 3/4	10	247.24
- 274	10	10 1/4	253.59
- 275	10 1/2	10 3/4	266.29
- 276	11	11 1/4	278.99
- 277	11 1/2	11 3/4	291.69

* Cross Section = **-001:** 1/32 - 0.040" - 1.02 mm **-002:** 3/64 - 0.050" - 1.27 mm **-003:** 1/16 - 0.060" - 1.52 mm

O'Ring Size Chart- Inch

AS 568A Uniform Dash Number	Nominal Size Inches		Actual Size Millimeters
	ID	OD	ID
- 278	12	12 1/4	304.39
- 279	13	13 1/4	329.79
- 280	14	14 1/4	355.19
- 281	15	15 1/4	380.59
- 282	16	16 1/4	405.26
- 283	17	17 1/4	430.66
- 284	18	18 1/4	456.06
3/16" - Cross Section (S) - 0.210" - 5.33 mm			
- 309	7/16	13/16	10.46
- 310	1/2	7/8	12.07
- 311	9/16	15/16	13.64
- 312	5/8	1	15.24
- 313	11/16	1 1/16	16.81
- 314	3/4	1 1/8	18.42
- 315	13/16	1 3/16	19.99
- 316	7/8	1 1/4	21.59
- 317	15/16	1 5/16	23.16
- 318	1	1 3/8	24.77
- 319	1 1/16	1 7/16	26.34
- 320	1 1/8	1 1/2	27.94
- 321	1 3/16	1 9/16	29.51
- 322	1 1/4	1 5/8	31.12
- 323	1 5/16	1 11/16	32.69
- 324	1 3/8	1 3/4	34.29
- 325	1 1/2	1 7/8	37.47
- 326	1 5/8	2	40.64
- 327	1 3/4	2 1/8	43.82
- 328	1 7/8	2 1/4	46.99
- 329	2	2 3/8	50.17
- 330	2 1/8	2 1/2	53.34
- 331	2 1/4	2 5/8	56.52
- 332	2 3/8	2 3/4	59.69
- 333	2 1/2	2 7/8	62.87
- 334	2 5/8	3	66.04
- 335	2 3/4	3 1/8	69.22
- 336	2 7/8	3 1/4	72.39
- 337	3	3 3/8	75.57
- 338	3 1/8	3 1/2	78.74
- 339	3 1/4	3 5/8	81.92
- 340	3 3/8	3 3/4	85.09
- 341	3 1/2	3 7/8	88.27
- 342	3 5/8	4	91.44
- 343	3 3/4	4 1/8	94.62
- 344	3 7/8	4 1/4	97.79
- 345	4	4 3/8	100.97
- 346	4 1/8	4 1/2	104.14
- 347	4 1/4	4 5/8	107.32
- 348	4 3/8	4 3/4	110.49
- 349	4 1/2	4 7/8	113.67
- 350	4 5/8	5	116.84
- 351	4 3/4	5 1/8	120.02
- 352	4 7/8	5 1/4	123.19
- 353	5	5 3/8	126.37
- 354	5 1/8	5 1/2	129.54
- 355	5 1/4	5 5/8	132.72
- 356	5 3/8	5 3/4	135.89
- 357	5 1/2	5 7/8	139.07
- 358	5 5/8	6	142.24
- 359	5 3/4	6 1/8	145.42
- 360	5 7/8	6 1/4	148.59
- 361	6	6 3/8	151.77
- 362	6 1/4	6 5/8	158.12
- 363	6 1/2	6 7/8	164.47
- 364	6 3/4	7 1/8	170.82
- 365	7	7 3/8	177.17
- 366	7 1/4	7 5/8	183.52
- 367	7 1/2	7 7/8	189.87
- 368	7 3/4	8 1/8	196.22
- 369	8	8 3/8	202.57

AS 568A Uniform Dash Number	Nominal Size Inches		Actual Size Millimeters
	ID	OD	ID
- 370	8 1/4	8 5/8	208.92
- 371	8 1/2	8 7/8	215.27
- 372	8 3/4	9 1/8	221.62
- 373	9	9 3/8	227.97
- 374	9 1/4	9 5/8	234.32
- 375	9 1/2	9 7/8	240.67
- 376	9 3/4	10 1/8	247.02
- 377	10	10 3/8	253.37
- 378	10 1/2	10 7/8	266.07
- 379	11	11 3/8	278.77
- 380	11 1/2	11 7/8	291.47
- 381	12	12 3/8	304.17
- 382	13	13 3/8	329.57
- 383	14	14 3/8	354.97
- 384	15	15 3/8	380.37
- 385	16	16 3/8	405.26
- 386	17	17 3/8	430.66
- 387	18	18 3/8	456.06
- 388	19	19 3/8	481.41
- 389	20	20 3/8	506.81
- 390	21	21 3/8	532.21
- 391	22	22 3/8	557.61
- 392	23	23 3/8	582.68
- 393	24	24 3/8	608.08
- 394	25	25 3/8	633.48
- 395	26	26 3/8	658.88
1/4" - Cross Section (S) - 0.275" - 6.99 mm			
- 400 ◆	1 3/8	1 7/8	34.29
- 401 ◆	1 1/2	2	37.47
- 402 ◆	1 5/8	2 1/8	40.64
- 403 ◆	1 3/4	2 1/4	43.82
- 404 ◆	1 7/8	2 3/8	46.99
- 405 ◆	2	2 1/2	50.17
- 406 ◆	2 1/8	2 5/8	53.34
- 407 ◆	2 1/4	2 3/4	56.52
- 408 ◆	2 3/8	2 7/8	59.69
- 409 ◆	2 1/2	3	62.87
- 410 ◆	2 5/8	3 1/8	66.04
- 411 ◆	2 3/4	3 1/4	69.22
- 412 ◆	2 7/8	3 3/8	72.39
- 413 ◆	3	3 1/2	75.57
- 414 ◆	3 1/8	3 5/8	78.74
- 415 ◆	3 1/4	3 3/4	81.92
- 416 ◆	3 3/8	3 7/8	85.09
- 417 ◆	3 1/2	4	88.27
- 418 ◆	3 5/8	4 1/8	91.44
- 419 ◆	3 3/4	4 1/4	94.62
- 420 ◆	3 7/8	4 3/8	97.79
- 421 ◆	4	4 1/2	100.97
- 422 ◆	4 1/8	4 5/8	104.14
- 423 ◆	4 1/4	4 3/4	107.32
- 424 ◆	4 3/8	4 7/8	110.49
- 425	4 1/2	5	113.67
- 426	4 5/8	5 1/8	116.84
- 427	4 3/4	5 1/4	120.02
- 428	4 7/8	5 3/8	123.19
- 429	5	5 1/2	126.37
- 430	5 1/8	5 5/8	129.54
- 431	5 1/4	5 3/4	132.72
- 432	5 3/8	5 7/8	135.89
- 433	5 1/2	6	139.07
- 434	5 5/8	6 1/8	142.24
- 435	5 3/4	6 1/4	145.42
- 436	5 7/8	6 3/8	148.59
- 437	6	6 1/2	151.77
- 438	6 1/4	6 3/4	158.12
- 439	6 1/2	7	164.47
- 440	6 3/4	7 1/4	170.82
- 441	7	7 1/2	177.17

AS 568A Uniform Dash Number	Nominal Size Inches		Actual Size Millimeters
	ID	OD	ID
- 442	7 1/4	7 3/4	183.52
- 443	7 1/2	8	189.87
- 444	7 3/4	8 1/4	196.22
- 445	8	8 1/2	202.57
- 446	8 1/2	9	215.27
- 447	9	9 1/2	227.97
- 448	9 1/2	10	240.67
- 449	10	10 1/2	253.37
- 450	10 1/2	11	266.07
- 451	11	11 1/2	278.77
- 452	11 1/2	12	291.47
- 453	12	12 1/2	304.17
- 454	12 1/2	13	316.87
- 455	13	13 1/2	329.57
- 456	13 1/2	14	342.27
- 457	14	14 1/2	354.97
- 458	14 1/2	15	367.67
- 459	15	15 1/2	380.37
- 460	15 1/2	16	393.07
- 461	16	16 1/2	405.26
- 462	16 1/2	17	417.96
- 463	17	17 1/2	430.66
- 464	17 1/2	18	443.36
- 465	18	18 1/2	456.06
- 466	18 1/2	19	468.76
- 467	19	19 1/2	481.46
- 468	19 1/2	20	494.16
- 469	20	20 1/2	506.86
- 470	21	21 1/2	532.26
- 471	22	22 1/2	557.66
- 472	23	23 1/2	582.68
- 473	24	24 1/2	608.08
- 474	25	25 1/2	633.48
- 475	26	26 1/2	658.88

Tube Fitting Boss Seals

AS 568A Uniform Dash Number	Tube OD ref	Actual O'Ring Size Inches		Actual O'Ring Size Millimeters	
		ID	S	ID	S
- 901	3/32	0.185	0.056	4.70	1.42
- 902	1/8	0.239	0.064	6.07	1.63
- 903	3/16	0.301	0.064	7.65	1.63
- 904	1/4	0.351	0.072	8.92	1.83
- 905	5/16	0.414	0.072	10.52	1.83
- 906	3/8	0.468	0.078	11.89	1.98
- 907	7/16	0.530	0.082	13.46	2.08
- 908	1/2	0.644	0.087	16.36	2.21
- 909	9/16	0.706	0.097	17.93	2.46
- 910	5/8	0.755	0.097	19.18	2.46
- 911	11/16	0.863	0.116	21.92	2.95
- 912	3/4	0.924	0.116	23.47	2.95
- 913	13/16	0.986	0.116	25.04	2.95
- 914	7/8	1.047	0.116	26.59	2.95
- 916	1	1.171	0.116	29.74	2.95
- 918	1 1/8	1.355	0.116	34.42	2.95
- 920	1 1/4	1.475	0.118	37.47	3.00
- 924	1 1/2	1.720	0.118	43.69	3.00
- 928	1 3/4	2.090	0.118	53.09	3.00
- 932	2	2.337	0.118	59.36	3.00

◆ Does not meet standard **AS 568A**

Conversion Table Inch/Metric

Inches		Millimeters
Fractions	Decimals	
—	0.0004	0.010
—	0.0040	0.100
—	0.0100	0.250
1/64	0.0156	0.397
—	0.0197	0.500
—	0.0295	0.750
1/32	0.0313	0.794
—	0.0394	1.000
3/64	0.0469	1.191
—	0.0590	1.500
1/16	0.0620	1.588
5/64	0.0781	1.984
—	0.0787	2.000
3/32	0.0940	2.381
—	0.0984	2.500
7/64	0.1090	2.778
—	0.1181	3.000
1/8	0.1250	3.175
—	0.1378	3.500
9/64	0.1410	3.572
5/32	0.1560	3.969
—	0.1575	4.000
1/64	0.1720	4.366
—	0.1770	4.500
3/16	0.1875	4.763
—	0.1969	5.000
13/64	0.2030	5.159
—	0.2165	5.500
7/32	0.2190	5.556
15/64	0.2340	5.953
—	0.2362	6.000
1/4	0.2500	6.350
—	0.2259	6.500
17/64	0.2656	6.747
—	0.2756	7.000
9/32	0.2810	7.144
—	0.2953	7.500
19/64	0.2970	7.541
5/16	0.3120	7.938
—	0.3150	8.000
21/64	0.3280	8.334
—	0.3350	8.500
11/32	0.3432	8.731
—	0.3543	9.000
23/64	0.3590	9.128
—	0.3740	9.500
3/8	0.3750	9.525

Inches		Millimeters
Fractions	Decimals	
25/64	0.3910	9.922
—	0.3937	10.000
13/32	0.4062	10.319
—	0.4130	10.500
27/64	0.4220	10.716
—	0.4331	11.000
7/16	0.4375	11.113
29/64	0.4530	11.509
15/32	0.4690	11.906
—	0.4724	12.000
31/64	0.4840	12.303
—	0.4920	12.500
1/2	0.5000	12.700
—	0.5118	13.000
33/64	0.5156	13.097
17/32	0.5310	13.494
35/64	0.5470	13.891
—	0.5512	14.000
9/16	0.5630	14.288
—	0.5710	14.500
37/64	0.5780	14.684
—	0.5906	15.000
19/32	0.5940	15.081
39/64	0.6090	15.478
5/8	0.6250	15.875
—	0.6299	16.000
41/64	0.6406	16.272
—	0.6496	16.500
21/32	0.6580	16.669
—	0.6693	17.000
23/64	0.6720	17.066
11/16	0.6875	17.463
45/64	0.7030	17.859
—	0.7087	18.000
23/32	0.7190	18.256
—	0.7283	18.500
47/64	0.7340	18.653
—	0.7480	19.000
3/4	0.7500	19.050
49/64	0.7656	19.447
25/32	0.7810	19.844
—	0.7874	20.000
51/64	0.7970	20.241
13/16	0.8125	20.638
—	0.8268	21.000
53/64	0.8280	21.034
27/32	0.8440	21.431

Inches		Millimeters
Fractions	Decimals	
55/64	0.8590	21.828
—	0.8661	22.000
7/8	0.8750	22.225
57/64	0.8906	22.622
—	0.9055	23.000
29/32	0.9062	23.019
59/64	0.9220	23.416
15/16	0.9375	23.813
—	0.9449	24.000
61/64	0.9530	24.209
31/32	0.9690	24.606
—	0.9843	25.000
63/64	0.9844	25.003
—	1.0000	25.400
—	1.0236	26.000
1 - 1/32	1.0312	26.194
1 - 1/16	1.0620	26.988
—	1.0630	27.000
1 - 3/32	1.0940	27.781
—	1.1024	28.000
1 - 1/8	1.1250	28.575
—	1.1417	29.000
1 - 5/32	1.1560	23.369
—	1.1811	30.000
1 - 3/16	1.1875	30.163
1 - 7/32	1.2190	30.956
—	1.2205	31.000
1 - 1/4	1.2500	31.750
—	1.2598	32.000
1 - 9/32	1.2810	32.544
—	1.2992	33.000
1 - 5/16	1.3120	33.338
—	1.3386	34.000
1 - 11/32	1.3440	34.131
1 - 3/8	1.3750	34.925
—	1.3779	35.000
1 - 13/32	1.4060	35.719
—	1.4173	36.000
1 - 7/16	1.4380	36.513
—	1.4597	37.000
1 - 15/32	1.4690	37.306
—	1.4961	38.000
1 - 1/2	1.5000	38.100
1 - 17/32	1.5310	38.894
—	1.5354	39.000
1 - 9/16	1.5620	39.688
—	1.5748	40.000

Inches		Millimeters
Fractions	Decimals	
1 - 19/32	1.5940	40.481
—	1.6142	41.000
1 - 5/8	1.6250	41.275
—	1.6535	42.000
1 - 21/32	1.6562	42.069
1 - 11/16	1.6875	42.863
—	1.6929	43.000
1 - 23/32	1.7190	43.656
—	1.7323	44.000
1 - 3/4	1.7500	44.450
—	1.7717	45.000
1 - 25/32	1.7810	45.244
—	1.8110	46.000
1 - 13/16	1.8125	46.038
1 - 27/32	1.8440	46.831
—	1.8504	47.000
1 - 7/8	1.8750	47.625
—	1.8898	48.000
1 - 29/32	1.9062	48.419
—	1.9291	49.000
1 - 15/16	1.9375	49.213
—	1.9685	50.000
1 - 31/32	1.9690	50.006
2	2.0000	50.800
—	2.0079	51.000
2 - 1/32	2.0313	51.594
—	2.0472	52.000
2 - 1/16	2.0620	52.388
—	2.0866	53.000
2 - 3/32	2.0940	53.181
2 - 1/8	2.1250	53.975
—	2.1260	54.000
2 - 5/32	2.1560	54.769
—	2.1650	55.000
2 - 3/16	2.1875	55.563
—	2.2047	56.000
2 - 7/32	2.2190	56.356
—	2.2440	57.000
2 - 1/4	2.2500	57.150
2 - 9/32	2.2810	57.944
—	2.2835	58.000
2 - 5/16	2.3120	58.738
—	2.3228	59.000
2 - 11/32	2.3440	59.531
—	2.3622	60.000
2 - 3/8	2.3750	60.325
—	2.4016	61.000

Conversion Table Inch/Metric

Inches		Millimeters
Fractions	Decimals	
2 - 13/32	2.4060	61.119
2 - 7/16	2.4380	61.913
—	2.4409	62.000
2 - 15/32	2.4690	62.706
—	2.4803	63.000
2 - 1/2	2.5000	63.500
—	2.5197	64.000
2 - 17/32	2.5310	64.294
—	2.5590	65.000
2 - 9/16	2.5620	65.088
2 - 19/32	2.5940	65.881
—	2.5984	66.000
2 - 5/8	2.6520	66.675
—	2.6380	67.000
2 - 21/32	2.6560	67.469
—	2.6772	68.000
2 - 11/16	2.6875	68.263
—	2.7165	69.000
2 - 23/32	2.7190	69.056
2 - 3/4	2.7500	69.850
—	2.7559	70.000
2 - 25/32	2.7810	70.644
—	2.7953	71.000
2 - 13/16	2.8125	71.438
—	2.8346	72.000
2 - 27/32	2.8440	72.231
—	2.8740	73.000
2 - 7/8	2.8750	73.025
2 - 29/32	2.9062	73.819
—	2.9134	74.000
2 - 15/16	2.9375	74.613
—	2.9527	75.000
2 - 31/32	2.9690	75.406
—	2.9921	76.000
3	3.0000	76.200
3 - 1/32	3.0312	76.994
—	3.0315	77.000
3 - 1/16	3.0620	77.788
—	3.0709	78.000
3 - 3/32	3.0940	78.581

Inches		Millimeters
Fractions	Decimals	
—	3.1102	79.000
3 - 1/8	3.1250	79.581
—	3.1496	80.000
3 - 5/32	3.1560	80.169
3 - 3/16	3.1875	80.963
—	3.1890	81.000
3 - 7/32	3.2190	81.756
—	3.2283	82.000
3 - 1/4	3.2500	82.550
—	3.2677	83.000
3 - 9/32	3.2810	83.344
—	3.3071	84.000
3 - 5/16	3.3120	84.138
3 - 11/32	3.3440	84.931
—	3.3464	85.000
3 - 3/8	3.3750	85.725
—	3.3858	86.000
3 - 13/32	3.4060	86.519
—	3.4252	87.000
3 - 7/16	3.4380	87.313
—	3.4648	88.000
3 - 15/32	3.4690	88.108
3 - 1/2	3.5000	88.900
—	3.5039	89.000
3 - 17/32	3.5310	89.694
—	3.5433	90.000
3 - 9/16	3.5620	90.488
—	3.5827	91.000
3 -19/32	3.5940	91.281
—	3.6220	92.000
3 - 5/8	3.6250	92.075
3 - 21/32	3.6560	92.869
—	3.6614	93.000
3 - 11/16	3.6875	93.663
—	3.7008	94.000
3 - 23/32	3.7190	94.456
—	3.7401	95.000
3 - 3/4	3.7500	95.250
—	3.7795	96.000
3 - 25/32	3.7810	96.044

Inches		Millimeters
Fractions	Decimals	
3 - 13/16	3.8125	96.838
—	3.8189	97.000
3 - 27/32	3.8440	97.631
—	3.8583	98.000
3 - 7/8	3.8750	98.425
—	3.8976	99.000
3 - 29/32	3.9062	99.219
—	3.9370	100.000
3 - 15/16	3.9375	100.013
3 - 31/32	3.9690	100.806
—	3.9764	101.000
4	4.0000	101.600
4 - 1/16	4.0620	103.188
4 - 1/8	4.1250	104.775
—	4.1338	105.000
4 - 3/16	4.1875	106.363
4 - 1/4	4.2500	107.950
4 - 5/16	4.3120	109.538
—	4.3307	110.000
4 - 3/8	4.3750	111.125
4 - 7/16	4.4380	112.713
4 - 1/2	4.5000	114.300
—	4.5275	115.000
4 - 9/16	4.5620	115.888
4 - 5/8	4.6250	117.475
4 - 11/16	4.6875	119.063
—	4.7244	120.000
4 - 3/4	4.7500	120.650
4 - 13/16	4.8125	122.238
4 - 7/8	4.8750	123.825
—	4.9212	125.000
4 - 15/16	4.9375	125.413
5	5.0000	127.000
—	5.1181	130.000
5 - 1/4	5.2500	133.350
5 - 1/2	5.5000	139.700
—	5.5118	140.000
5 - 3/4	5.7500	146.050
—	5.9055	150.000
6	6.0000	152.400

Inches		Millimeters
Fractions	Decimals	
6 - 1/4	6.2500	158.750
—	6.2992	160.000
6 - 1/2	6.5000	165.100
—	6.6929	170.000
6 - 3/4	6.7500	171.450
7	7.0000	177.800
—	7.0866	180.000
—	7.4803	190.000
7 - 1/2	7.5000	190.500
—	7.8740	200.000
8	8.0000	203.200
—	8.2677	210.000
8 - 1/ 2	8.5000	215.900
—	8.6614	220.000
9	9.0000	228.600
—	9.0551	230.000
—	9.4488	240.000
9 - 1/2	9.5000	241.300
—	9.8425	250.000
10	10.0000	254.001
—	10.2362	260.000
—	10.6299	270.000
11	11.0000	279.401
—	11.0236	280.000
—	11.4173	290.000
—	11.8110	300.000
12	12.0000	304.801
13	13.0000	330.201
—	13.7795	350.000
14	14.0000	355.601
15	15.0000	381.001
—	15.7480	400.000
16	16.0000	406.401
17	17.0000	431.801
—	17.7165	450.000
18	18.0000	457.201
19	19.0000	482.601
—		500.000
20		508.001

Notes

Notes

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16027 NE CAMERON BLVD.
PORTLAND, OR, 97230
Tel: 1-888-609-SEAL
Fax: 1-888-717-SEAL
E-mail: info@sealsourceinc.com

www.sealsourceinc.com