Seal Source Inc.

Sealing Components Catalog

Vol. 6

HYDRAULIC / PNEUMATIC / INCH / METRIC

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Seal Source Inc.

CONVERSION CHART

FRACTIONS					Decimal		mm
				1/64	0.016		0.40
			1/32		0.031		0.79
						0.039	1.00
				3/64	0.047		1.19
		1/16			0.063		1.59
				5/64	0.078		1.98
						0.079	2.00
			3/32		0.094		2.38
				7/64	0.109		2.78
						0.118	3.00
	1/8				0.125		3.18
				9/64	0.141		3.57
			5/32		0.156		3.97
						0.157	4.00
				11/64	0.172		4.37
		3/16			0.188		4.76
						0.197	5.00
				13/64	0.203		5.16
			7/32		0.219		5.56
				15/64	0.234		5.95
						0.236	6.00
1/4					0.250		6.35
				17/64	0.266		6.75
						0.276	7.00
			9/32		0.281		7.14
				19/64	0.297		7.54
		5/16			0.313		7.94
						0.315	8.00
				21/64	0.328		8.33
			11/32		0.344		8.73
						0.354	9.00
				23/64	0.316		9.13
	3/8				0.375		9.53
				25/64	0.391		9.92
						0.394	10.00
			13/32		0.406		10.32
				27/64	0.422		10.72
						0.433	11.00
		7/16			0.438		11.11
				29/64	0.453		11.51
			15/32		0.469		11.91
						0.472	12.00
				31/64	0.484		12.30
1/2					0.500		12.70

FRACTIONS					Decimal		mm
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			17/32		0.531		13.49
				35/64	0.557		13.89
						0.551	14.00
		9/16			0.563		14.29
				37/64	0.578		14.68
						0.591	15.00
			19/32		0.594		15.08
				39/64	0.609		15.48
	5/8				0.625		15.88
						0.630	16.00
				41/64	0.641		16.27
			21/32		0.656		16.67
						0.669	17.00
				43/64	0.672		17.07
		11/16			0.688		17.46
				45/64	0.703		17.86
						0.709	18.00
			23/32		0.719		18.26
				47/64	0.734		18.65
						0.748	19.00
3/4					0.750		19.05
				49/64	0.766		19.45
			25/32		0.781		19.84
						0.787	20.00
				51/64	0.797		20.24
		13/16			0.813		20.64
						0.827	21.00
				53/64	0.828		21.03
			27/32		0.844		21.43
				55/64	0.859		21.83
						0.866	22.00
	7/8				0.875		22.23
				57/64	0.891		22.62
						0.905	23.00
			29/32		0.906		23.02
				59/64	0.922		23.42
		15/16			0.938		23.81
						0.945	24.00
				61/64	0.953		24.21
			31/32		0.969		24.61
						0.984	25.00
				63/64	0.987		25.03

2014 SEAL CATALOG

- User friendly
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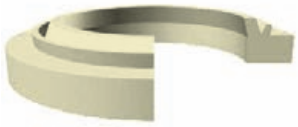
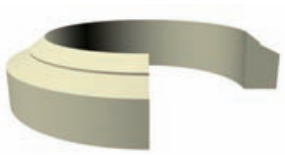
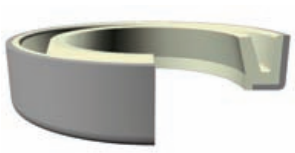
Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
INCH SIZE ROD WIPERS	**AN**	**H**			Polyurethane AU 90A	A	2
	AN/V	**H/P**			FPM 90A	A	4
	AN/P	**H**			High Perf. Urethane	A	5
	AN/DL	**H**			Hytrel 92A	A	6
	D	**H**			Polyurethane AU 90A	A	8
	D/V	**H/P**			FPM 90A	A	11
	D/P	**H**			High Perf. Urethane	A	12
	D/520	**H**			Hythane AU 93A	A	13
	D/820	**H**			Hythane AU 93A	A	15
	DX	**H**			Lubrithane/ Nitrile	A	15

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
INCH SIZE ROD WIPERS	**D/DL**	**H**			Hytrel 92A	A	16
	H	**H**			Polyurethane AU 90A	A	18
	H/N	**H/P**			Nitrile 80-90A	A	19
	H/V	**H/P**			FPM 90A	A	21
	HBT	**H**			Hytrel 92A	A	22
	K	**H**			Polyurethane AU 90A	A	23
	LDW	**H/P**			Nitrile NBR 85A	A	25
	Commercial Int.	**H**			Hytrel 92A	A	27
	Hyco	**H**			Hytrel 92A	A	27
	Hyster	**H**			Polyurethane AU 90A	A	28

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
INCH SIZE ROD WIPERS	**P. Galion**	**H**			Hytrel 92A	A	28
	P. Cobey	**H**			Hytrel 92A	A	29
	Trailmobile	**H**			Hytrel 92A	A	29
	WARD	**H**			Polyurethane AU 90A	A	30
	D & K Wiper Cord	**H**			Nitrile 85A	A	30
	EX1	**H**			40% BR.PTFE/ Nitrile	A	31
	EX2	**H**			40% BR.PTFE/ Nitrile	A	33
	EX5	**H**			40% BR.PTFE/ Nitrile	A	35
	BW/S	**H**			Brass/Nitrile Brass/FPM	A	36
	FWR	**H**			Brass	A	40

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
INCH SIZE ROD WIPERS	**J**	**H**			STD AU 92A/Steel 9250 AU 90A/Steel T862 AU 93A/Steel 4615 AU 90A/Steel 1023 AU 93A/Steel	A	42
	J/N	**H**			Nitrile/Steel	A	47
	J/DL	**H**			STD AU 92/Steel 9250 AU 90/Steel	A	49
	MPW	**H**			Polyurethane/ Steel	A	50
	WU	**H**			Nitrile/Brass/ Steel	A	51
	WY	**H**			Nylon	A	52
INCH SIZE ROD SEALS	**UR**	**H**			STD AU 92A 9250 AU 92A 4615 AU 90A	B	2
	BS	**H**			STD AU 92A 605 Hythane AU 92A 9250 AU 92A 4700/4693 AU 90A 4300 AU 90A	B	9
	BS/SL	**H/P**			NBR 80A FPM 90A	B	15
	BS/3L	**H**			Polyurethane AU 92A	B	17

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Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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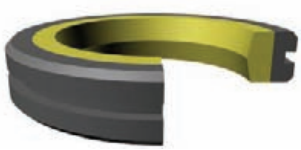
	DZ	**H**			Lubrithane/Nitrile Blue Lubritane/ Nitrile	B	21
	ZA	**H**			Lubrithane/ Nitrile	B	22
	BR	**H**			Polyurethane AU 90A/ Polyacetal	B	23
	HBY	**H**			Polyurethane AU 94A/ Polyacetal	B	24
	RBS	**H**			Polyurethane 93A/POM	B	24
	RSS	**H**			BR.PTFE/ Nitrile	B	25
	R2B	**H**			BR.PTFE/ Nitrile	B	31
	TR	**H**			Nitrile/Nylon	B	33
INCH SIZE ROD/PISTON SEALS	**STD. Loaded U-Cups**	**H**			• STD AU/NBR • P, 4651 = High Perf. Urethane • V = FPM	C	4

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
INCH SIZE ROD/PISTON SEALS	**Deep Loaded U-Cups**	**H**			• STD AU/NBR • P, 4651 = High Perf. Urethane • V = FPM	C	15
	B Loaded U-Cups	**H**			• STD AU/NBR • P, 4651 = High Perf. Urethane • V = FPM	C	23
	Modular Backups	**H**			Urethane 65D	C	36
	US	**H**			STD AU 90A 601 Hythane 93A 9250 AU 92A 4615 AU 92A	C	41
	AN6226	**H/P**			NBR 80A FPM Nitroxile	C	55
	8400	**H/P**			NBR 80A FPM Nitroxile EPDM	C	57
	FU	**H**			Neo-Fab	C	62
	HU	**H/P**			Nitrile NBR 80A	C	64
INCH SIZE PISTON SEALS	**UP**	**H**			STD AU 92A 606 Hythane 93A 9250 AU 92A 4615 AU 92A	D	2
	KP	**H/P**			Polyurethane AU 92A	D	7

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
INCH SIZE PISTON SEALS	**CB**	**H/P**			Nitrile/Steel	D	8
	CF	**H**			Neo-Fabric	D	9
	ECF	**H**			Neo-Fabric	D	12
	CH	**P**			Nitrile NBR80/ 90A	D	13
	CS	**H**			Polyurethane AU 90A	D	15
	CT	**H/P**			Polyurethane AU 90A	D	17
	TP	**H/P**			Nitrile/Nylon	D	19
	TP-1	**H/P**			Nitrile/Nylon	D	21
	TP-2	**H/P**			Nitrile/Nylon	D	22
	Uniring	**H**			Polyurethane AU 57A/AU 60D	D	23

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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	PSP-A	**H**			Polyurethane/ Nitrile	D	26
	PSP-AT	**H**			Polyurethane/ Nitrile	D	28
	CP	**H**			Lubrithane/ Nitrile	D	28
	PIP Ring	**H**			Molythane AU 65D	D	31
	TFES	**H**			GF.PTFE/Nitrile	D	32
	AU-S	**H**			Polyurethane/ Nitrile	D	34
	160G	**H**			GF.PTFE/Nitrile	D	35
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Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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	PS2470	**H**			BR.PTFE/Nitrile	D	42
	P2B	**H**			BR.PTFE/Nitrile	D	43
	C914	**H**			Nylon/Nitrile	D	44
	ZG	**H**			Nylon/Nitrile	D	45
	CTS	**H**			• GF/M.PTFE/ Nylon/Nitrile • BR.PTFE/ Nylon/Nitrile	D	46
	P1000	**H**			Cast Iron	D	48
	P3C	**H**			Neofab/ Polyamide	D	51
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Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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	Hydrolock Vee Set	**H**			Hytrel/Nylon	D	57
INCH SIZE VEE PACKINGS	**STD Vee Packing**	**H**			Neofab/Nylon Hytrel/NBR	E	2
	STD Vee Sets	**H**			Nylon/Hytrel/ Neofab	E	17
	MV6225	**H**			Nitrile NBR 80A	E	20
	Hydrolock Vee Set	**H**			Hytrel/Nylon	E	21
	Guidelocks	**H**			Nylon	E	24
	Vee Coil	**H**			Neo-Fabric	E	25
INCH SIZE GUIDING ELEMENTS	**W1234**	**H**			Nylon/BR.PTFE	F	2
	W2-PB	**H**			Glass filled Nylon	F	14

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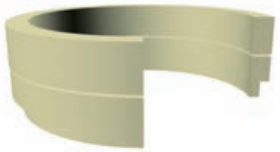
	TWR	**H**			GR.Nylon	F	22
	WS-BR60	**H**			60% BR.PTFE	F	23
	WS-PR	**H**			Polyester Resin	F	24
	Bearing Tel. Cylinders	**H**			Nylon	F	25
	54 Bearings	**H**			Nylon	F	27
	“DU” Bearing	**H**			BR.PTFE/Steel	F	33
	SBB/Z	**H**			Steel	F	35
	SBB-2RS/Z	**H**			Steel	F	36
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Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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	Vulc. O'Rings	**H/P**			• Nitrile • Fluorocarbon • Silicone • Ethylene Propylene	G	49 50 50 51
	8-XXX Back-Up Rings	**H/P**			All compounds	G	52
	Back-Up ST/N, SD/N Series	**H/P**			/N - Nylon /T - V.PTFE	G	56
	8700 Back-Up	**H/P**			• /P - High perf. Urethane • SD/T - V.PTFE	G	67
	PG Gasket	**H/P**			N-8090 Reinforced Fiber	G	68

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	BS400SC Bonded Seal	**H/P**			Carbon Steel/NBR	G	72
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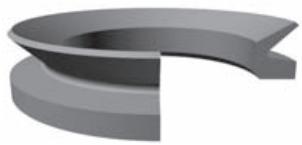
	800 Lock-o-Seal	**H/P**			Steel/NBR	G	74
	600 Stat-o-Seal	**H/P**			Cadmium Plated Steel/NBR	G	75
	7500 Threadseal	**H/P**			Steel/NBR	G	76
MISCELLANEOUS ACCESSORIES	**Type A V-Ring**	**H/P**			NBR 65D	H	3
	Type A V-Ring	**H/P**			FPM 63D	H	5
	Type L V-Ring	**H/P**			NBR 65D	H	7
	Type L V-Ring	**H/P**			FMP 63D	H	8

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
MISCELLANEOUS ACCESSORIES	**Type S V-Ring**	**H/P**			NBR 65D	H	9
	N1300 Internal	**H/P**			Carbon Steel	H	14
	N1400 External	**H/P**			Carbon Steel	H	15
	VH Internal	**H/P**			Carbon Steel	H	17
	WH Internal	**H/P**			Carbon Steel	H	20
	WHM Internal	**H/P**			Carbon Steel	H	23
	WHT Internal	**H/P**			Carbon Steel	H	26
	VS External	**H/P**			Carbon Steel	H	28
	WS External	**H/P**			Carbon Steel	H	30
	WST External	**H/P**			Carbon Steel	H	33

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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	Cotter Pin	**H**			Steel	H	38
	Roll Pin Fastener	**H**			Steel	H	38
METRIC SIZE ROD WIPERS	**WA/N**	**H/P**			Nitrile NBR 90A	I	2
	WA/U	**H**			Polyurethane AU 90A	I	5
	WB - WB/U	**H**			• Nitrile NBR 90A • Polurethane AU 90A	I	7
	WC **MSWN**	**H/P**			Nitrile NBR 90A	I	9
	WC/U **MSWE** **MSW**	**H**			Polyurethane AU 90A	I	11
	WF	**H**			Polyurethane AU 94A	I	17
	WG	**H**			Polyurethane AU 92A	I	19

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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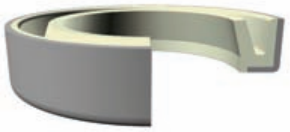
	WJ	**H**			Nitrile NBR 90A	I	22
	WM	**H**			Hythane	I	24
	WN	**H**			Nitrile/Steel	I	25
	WO	**H**			Polyurethane/ Steel	I	31
	WR	**H**			Polyurethane/ Steel	I	35
	WS	**H**			Polyurethane/ Steel	I	37
	WT	**H**			Polyurethane/ Steel	I	40
	WT/N	**H**			Nitrile/Steel	I	42
	WU	**H**			Nitrile/Brass/ Steel	I	43

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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	WW	**H**			• 40% BR.PTFE/ NBR • Polyurethane/ NBR	I	46
	WZ	**H**			NBR/Steel	I	48
METRIC SIZE ROD SEALS	**RA**	**H**			Polyurethane AU 94A	J	2
	RA/N	**H**			Nitrile NBR 85A	J	10
	RA-E	**H**			Polyurethane AU 94A	J	14
	RC	**H**			Polyurethane AU 93A	J	19
	RC/3L	**H**			Polyurethane AU 92A	J	27
	RE	**H**			Polyurethane/ Polyacetal/Nitrile	J	30
	RH **MYR**	**H**			Polyurethane AU 94A/ Polyacetal	J	32

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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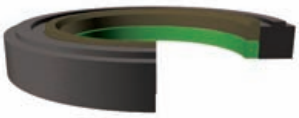
	RX	**H**			BR.PTFE/NBR/	J	40
	RZ	**H**			BR.PTFE/NBR/	J	43
	R5	**H**			Nitrile NBR 89A	J	46
	R6	**P**			Polyurethane AU 93A	J	47
	R8	**H**			Polyurethane	J	48
	R12	**H**			Nylon/PTFE/ Nitrile	J	48
	R14	**H**			BR.PTFE/NBR	J	49
	R19	**H**			Polyurethane AU 94A	J	50

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
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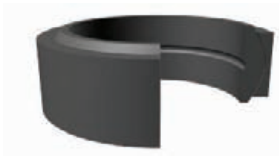
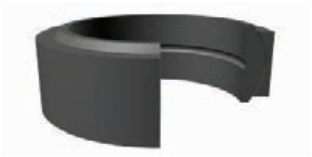
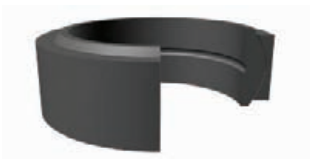
METRIC SIZE ROD/PISTON SEALS	**A**	**H**			Polyurethane AU 92A	K	2
	B	**H**			Polyurethane/ Nitrile	K	14
METRIC SIZE PISTON SEALS	**PB**	**H**			Polyurethane AU 92A	L	2
	PB/N	**H**			Nitrile NBR 85A	L	14
	PH	**H**			Nitrile/Nylon	L	17
	PR	**H**			Nitrile/Neofab/ Polyamide	L	18
	PZ	**H**			Cast Iron	L	19
	PZ/B	**H**			Bronze - 660	L	21
	P1B	**H/P**			Nitrile/Steel	L	21

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
METRIC SIZE PISTON SEALS	**P2B** MPS	**H**			BR. PTFE/Nitrile	L	23
	P2B/U	**H**			• Polyester/Nitrile • Polyurethane/ Nitrile	L	28
	ST/N	**H/P**			Nylon - Split	L	31
	P2G	**H**			Nylon/Nitrile	L	32
	P3C	**H**			Neofab/ Polyamide	L	33
	P3D	**H**			Nitrile/ Polyamide	L	35
	P4A	**H**			PTFE/ Nitrile/Nylon	L	36
	P5B	**H**			Nitrile/Polyamide/ Polyester	L	38
METRIC SIZE VEE PACKING	**V1**	**H**			Neofab/ Polyamide	M	2
	V2-V3-V4-V5	**H**			Neofab/ Polyamide/Nitrile	M	3

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
METRIC SIZE GUIDING ELEMENTS	**GA**	**H**			Polyamide	N	2
	GB	**H**			BR.PTFE	N	3
	GB/N	**H**			GF. Nylon	N	7
	GC	**H**			Phenolic	N	9
	WS-BR60	**H**			60% BR.PTFE	N	15
	WS-PR	**H**			Polyester Resin	N	16
	WS-PR-BOX	**H**			Polyester Resin	N	18
	WS-C	**H**			60% CB.PTFE	N	18
	“DV” Bearing	**H**			BR. PTFE/ STEEL	N	21
	GE	**H**			Nylon Dynamax Bronze	N	23

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
METRIC SIZE GUIDING ELEMENTS	**GE-ES**	**H**			Steel	N	24
	GE-ES2RS	**H**			Steel	N	25
	GE-GS	**H**			Steel	N	26
	GE-GS2RS	**H**			Steel	N	27
METRIC SIZE O'RINGS	**Metric O'Rings**	**H/P**			Nitrile NBR 70A	O	4
	Metric O'Rings	**H/P**			• Nitrile NBR 90A • Silicone 72 • Fluorocarbon FPM 70 • Fluorocarbon FPM 90	O	43 48 49 51
	Metric O'Ring Cord				NBR 70A Silicone Neoprene	O	51
	O'Ring Kits and Accessories					O	52
	Back-up Rings SD/T & ST/T	**H/P**			V.PTFE	O	53
	Back-up Rings SD/U	**H/P**			Polyurethane AU 95A	O	55

Section	Series	Hydraulic Pneumatic	Product Image	Profile	Material	Page	
METRIC SIZE O'RINGS	**Back-up Rings SD/N & ST/N**	**H/P**			Nylon	O	58
	KR	**H**			Polyacetal	O	63
	Usit Rings	**H/P**			Carbon Steel/ NBR	O	64
TECHNICAL INFORMATION	**Credit Application Form**					Tech	2
	Seal Application Request					Tech	3
	Specialty Seal Manufacturing Services					Tech	4
	Selecting Chart for Seal					Tech	5
	Material for Sealing					Tech	6
	Glossary					Tech	7
	Alphabetical Index					Tech	12
	Notes					Tech	16

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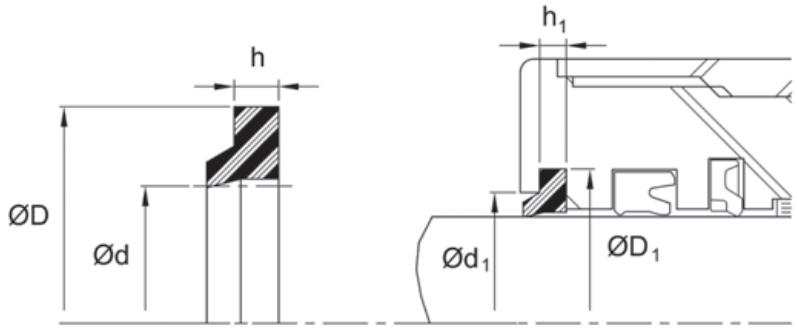
	AN/V	A	4
	AN/P	A	5
	AN/DL	A	6
	D	A	8
	D/V	A	11
	D/P	A	12
	D/520	A	13
	D/820	A	15
	DX	A	15
	D/DL	A	16
	H	A	18
	H/N	A	19
	H/V	A	21
	HBT	A	22
	K	A	23
	LDW	A	25
	Commercial Int.	A	27
	HYCO	A	27
	HYSTER	A	28
	P. GALION	A	28
	P. COBEY	A	29
	TRAILMOBILE	A	29
	WARD	A	30
	D & K WIPER CORD	A	30
	EX1	A	31
	EX2	A	33

	EX5	A	35
	BW/S	A	36
	FWR	A	40
	J	A	42
	J/N	A	47
	J/DL	A	49
	MPW	A	50
	WU	A	51
	WY	A	52

AN - Rod Wipers

Polyurethane AU 90A



Temperature: -40/250F [-40/120C] **Pressures: N/A**

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	1.08
AN-02	0.562	+.000 / -.002	0.562	0.829	0.104	0.710	+.005 / -.000	0.823	+.004 / -.000	0.107	+.003 / -.003	1.08
AN-03	0.625	+.000 / -.002	0.625	0.891	0.104	0.772	+.005 / -.000	0.885	+.004 / -.000	0.107	+.003 / -.003	1.08
AN-04	0.687	+.000 / -.002	0.687	0.954	0.104	0.834	+.005 / -.000	0.948	+.004 / -.000	0.107	+.003 / -.003	1.08
AN-05	0.750	+.000 / -.002	0.750	1.016	0.104	0.897	+.005 / -.000	1.010	+.004 / -.000	0.107	+.003 / -.003	1.08
AN-06	0.812	+.000 / -.002	0.812	1.090	0.104	0.960	+.005 / -.000	1.084	+.004 / -.000	0.107	+.003 / -.003	1.16
AN-07	0.875	+.000 / -.002	0.875	1.153	0.104	1.023	+.005 / -.000	1.147	+.004 / -.000	0.107	+.003 / -.003	1.16
AN-08	0.937	+.000 / -.002	0.937	1.215	0.104	1.085	+.005 / -.000	1.209	+.004 / -.000	0.107	+.003 / -.003	1.16
AN-09	1.000	+.000 / -.002	1.000	1.278	0.104	1.148	+.005 / -.000	1.272	+.004 / -.000	0.107	+.003 / -.003	1.16
AN-10	1.062	+.000 / -.002	1.062	1.340	0.104	1.210	+.005 / -.000	1.334	+.004 / -.000	0.107	+.003 / -.003	1.16
AN-11	1.125	+.000 / -.002	1.125	1.403	0.104	1.273	+.005 / -.000	1.397	+.004 / -.000	0.107	+.003 / -.003	1.22
AN-12	1.187	+.000 / -.002	1.187	1.465	0.104	1.335	+.005 / -.000	1.459	+.004 / -.000	0.107	+.003 / -.003	1.22
AN-13	1.250	+.000 / -.002	1.250	1.528	0.104	1.398	+.005 / -.000	1.522	+.004 / -.000	0.107	+.003 / -.003	1.27
AN-14	1.312	+.000 / -.002	1.312	1.622	0.104	1.480	+.005 / -.000	1.614	+.004 / -.000	0.107	+.003 / -.003	1.27
AN-15	1.375	+.000 / -.002	1.375	1.685	0.104	1.542	+.005 / -.000	1.677	+.004 / -.000	0.107	+.003 / -.003	1.66
AN-16	1.437	+.000 / -.002	1.437	1.747	0.104	1.605	+.005 / -.000	1.739	+.004 / -.000	0.107	+.003 / -.003	1.83
AN-17	1.500	+.000 / -.002	1.500	1.810	0.104	1.668	+.005 / -.000	1.802	+.004 / -.000	0.107	+.003 / -.003	1.85
AN-M	1.562	+.000 / -.002	1.562	1.872	0.104	1.730	+.005 / -.000	1.864	+.004 / -.000	0.107	+.003 / -.003	2.34
AN-18	1.625	+.000 / -.002	1.625	1.935	0.104	1.793	+.005 / -.000	1.927	+.004 / -.000	0.107	+.003 / -.003	1.96
AN-19	1.750	+.000 / -.002	1.750	2.060	0.104	1.918	+.005 / -.000	2.052	+.004 / -.000	0.107	+.003 / -.003	1.96
AN-A*	1.812	+.000 / -.002	1.812	2.123	0.104	1.981	+.005 / -.000	2.115	+.004 / -.000	0.107	+.003 / -.003	2.02
AN-20	1.875	+.000 / -.002	1.875	2.185	0.104	2.043	+.005 / -.000	2.177	+.004 / -.000	0.107	+.003 / -.003	1.99
AN-21	2.000	+.000 / -.002	2.000	2.310	0.104	2.178	+.005 / -.000	2.302	+.004 / -.000	0.107	+.003 / -.003	1.99
AN-B	2.062	+.000 / -.002	2.062	2.373	0.104	2.241	+.005 / -.000	2.365	+.004 / -.000	0.107	+.003 / -.003	2.03
AN-22	2.125	+.000 / -.002	2.125	2.435	0.104	2.303	+.005 / -.000	2.427	+.004 / -.000	0.107	+.003 / -.003	2.04
AN-23	2.250	+.000 / -.002	2.250	2.560	0.104	2.428	+.005 / -.000	2.552	+.004 / -.000	0.107	+.003 / -.003	2.13
AN-C	2.312	+.000 / -.002	2.312	2.622	0.104	2.490	+.005 / -.000	2.614	+.004 / -.000	0.107	+.003 / -.003	2.17
AN-24	2.375	+.000 / -.002	2.375	2.685	0.104	2.553	+.005 / -.000	2.677	+.004 / -.000	0.107	+.003 / -.003	2.19
AN-CC*	2.437	+.000 / -.002	2.437	2.748	0.104	2.616	+.005 / -.000	2.740	+.004 / -.000	0.107	+.003 / -.003	2.31
AN-25	2.500	+.000 / -.002	2.500	2.810	0.104	2.678	+.005 / -.000	2.802	+.004 / -.000	0.107	+.003 / -.003	2.39
AN-D	2.562	+.000 / -.002	2.562	2.873	0.104	2.741	+.005 / -.000	2.865	+.004 / -.000	0.107	+.003 / -.003	2.44
AN-26	2.625	+.000 / -.002	2.625	2.999	0.119	2.834	+.005 / -.000	2.989	+.004 / -.000	0.122	+.003 / -.003	2.46
AN-27	2.750	+.000 / -.002	2.750	3.124	0.119	2.959	+.005 / -.000	3.114	+.004 / -.000	0.122	+.003 / -.003	2.52
AN-28	2.875	+.000 / -.002	2.875	3.249	0.119	3.084	+.005 / -.000	3.239	+.004 / -.000	0.122	+.003 / -.003	2.95
AN-29	3.000	+.000 / -.002	3.000	3.374	0.119	3.209	+.005 / -.000	3.364	+.004 / -.000	0.122	+.003 / -.003	2.95
AN-30	3.125	+.000 / -.002	3.125	3.499	0.119	3.334	+.005 / -.000	3.489	+.004 / -.000	0.122	+.003 / -.003	3.58
AN-31	3.250	+.000 / -.002	3.250	3.624	0.119	3.459	+.005 / -.000	3.614	+.004 / -.000	0.122	+.003 / -.003	3.87
AN-32	3.375	+.000 / -.002	3.375	3.749	0.119	3.584	+.005 / -.000	3.739	+.004 / -.000	0.122	+.003 / -.003	3.94

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

AN SERIES - AU 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-33	3.500	+.000 / -.002	3.500	3.874	0.119	3.709	+.005 / -.000	3.864	+.004 / -.000	0.122	+.003 / -.003	3.55
AN-34	3.625	+.000 / -.002	3.625	3.999	0.119	3.834	+.005 / -.000	3.989	+.004 / -.000	0.122	+.003 / -.003	3.61
AN-35	3.750	+.000 / -.002	3.750	4.124	0.119	3.959	+.005 / -.000	4.114	+.004 / -.000	0.122	+.003 / -.003	3.77
AN-36	3.875	+.000 / -.002	3.875	4.249	0.119	4.084	+.005 / -.000	4.239	+.004 / -.000	0.122	+.003 / -.003	3.84
AN-37	4.000	+.000 / -.002	4.000	4.439	0.135	4.240	+.005 / -.000	4.427	+.004 / -.000	0.138	+.003 / -.003	3.95
AN-38	4.125	+.000 / -.002	4.125	4.564	0.135	4.365	+.005 / -.000	4.552	+.004 / -.000	0.138	+.003 / -.003	4.07
AN-39	4.250	+.000 / -.002	4.250	4.689	0.135	4.490	+.005 / -.000	4.677	+.004 / -.000	0.138	+.003 / -.003	4.18
AN-40	4.375	+.000 / -.003	4.375	4.814	0.135	4.615	+.005 / -.000	4.802	+.005 / -.000	0.138	+.003 / -.003	4.23
AN-41	4.500	+.000 / -.003	4.500	4.939	0.135	4.740	+.005 / -.000	4.927	+.005 / -.000	0.138	+.003 / -.003	4.29
AN-42	4.625	+.000 / -.003	4.625	5.064	0.135	4.865	+.005 / -.000	5.052	+.005 / -.000	0.138	+.003 / -.003	4.33
AN-43	4.750	+.000 / -.003	4.750	5.189	0.135	4.990	+.005 / -.000	5.177	+.005 / -.000	0.138	+.003 / -.003	4.45
AN-44	4.875	+.000 / -.003	4.875	5.314	0.135	5.115	+.005 / -.000	5.302	+.005 / -.000	0.138	+.003 / -.003	4.56
AN-45	5.000	+.000 / -.003	5.000	5.439	0.135	5.240	+.005 / -.000	5.427	+.005 / -.000	0.138	+.003 / -.003	5.27
AN-46	5.125	+.000 / -.003	5.125	5.564	0.135	5.365	+.005 / -.000	5.552	+.005 / -.000	0.138	+.003 / -.003	5.34
AN-47	5.250	+.000 / -.003	5.250	5.689	0.135	5.490	+.005 / -.000	5.677	+.005 / -.000	0.138	+.003 / -.003	5.34
AN-48	5.375	+.000 / -.003	5.375	5.814	0.135	5.615	+.005 / -.000	5.802	+.005 / -.000	0.138	+.003 / -.003	5.40
AN-49	5.500	+.000 / -.003	5.500	5.939	0.135	5.740	+.005 / -.000	5.927	+.005 / -.000	0.138	+.003 / -.003	5.51
AN-50	5.625	+.000 / -.003	5.625	6.128	0.151	5.896	+.005 / -.000	6.114	+.005 / -.000	0.154	+.003 / -.003	6.52
AN-51	5.750	+.000 / -.003	5.750	6.254	0.151	6.022	+.005 / -.000	6.239	+.005 / -.000	0.154	+.003 / -.003	6.91
AN-52	5.875	+.000 / -.003	5.875	6.379	0.151	6.146	+.005 / -.000	6.364	+.005 / -.000	0.154	+.003 / -.003	6.49
AN-53	6.000	+.000 / -.003	6.000	6.504	0.151	6.272	+.005 / -.000	6.489	+.005 / -.000	0.154	+.003 / -.003	7.21
AN-54	6.250	+.000 / -.003	6.250	6.754	0.151	6.522	+.005 / -.000	6.739	+.005 / -.000	0.154	+.003 / -.003	6.93
AN-55	6.500	+.000 / -.003	6.500	7.004	0.151	6.772	+.005 / -.000	6.989	+.005 / -.000	0.154	+.003 / -.003	7.06
AN-56	6.750	+.000 / -.003	6.750	7.254	0.151	7.022	+.005 / -.000	7.239	+.005 / -.000	0.154	+.003 / -.003	7.19
AN-57	7.000	+.000 / -.003	7.000	7.504	0.151	7.272	+.005 / -.000	7.489	+.005 / -.000	0.154	+.003 / -.003	7.40
AN-58	7.250	+.000 / -.003	7.250	7.754	0.151	7.522	+.005 / -.000	7.739	+.005 / -.000	0.154	+.003 / -.003	8.43
AN-L*	7.375	+.000 / -.003	7.375	7.879	0.151	7.647	+.005 / -.000	7.864	+.005 / -.000	0.154	+.003 / -.003	33.14
AN-59	7.500	+.000 / -.003	7.500	8.004	0.151	7.772	+.005 / -.000	7.989	+.005 / -.000	0.154	+.003 / -.003	10.20
AN-60	7.750	+.000 / -.003	7.750	8.254	0.151	8.022	+.005 / -.000	8.239	+.005 / -.000	0.154	+.003 / -.003	10.83
AN-61	8.000	+.000 / -.003	8.000	8.504	0.151	8.272	+.005 / -.000	8.489	+.005 / -.000	0.154	+.003 / -.003	11.69
AN-DD	8.125	+.000 / -.003	8.125	8.629	0.151	8.397	+.005 / -.000	8.614	+.005 / -.000	0.154	+.003 / -.003	33.01
AN-61.5	8.250	+.000 / -.003	8.250	8.754	0.151	8.522	+.005 / -.000	8.739	+.005 / -.000	0.154	+.003 / -.003	17.51
AN-62	8.500	+.000 / -.003	8.500	9.004	0.151	8.772	+.005 / -.000	8.989	+.005 / -.000	0.154	+.003 / -.003	10.24
AN-63	9.000	+.000 / -.003	9.000	9.504	0.151	9.272	+.005 / -.000	9.489	+.005 / -.000	0.154	+.003 / -.003	12.20
AN-E	9.250	+.000 / -.003	9.250	9.754	0.151	9.522	+.005 / -.000	9.739	+.005 / -.000	0.154	+.003 / -.003	33.01
AN-64	9.500	+.000 / -.003	9.500	10.004	0.151	9.772	+.005 / -.000	9.989	+.005 / -.000	0.154	+.003 / -.003	18.24
AN-65	10.000	+.000 / -.003	10.000	10.504	0.151	10.272	+.005 / -.000	10.489	+.005 / -.000	0.154	+.003 / -.003	12.66
AN-65.5	10.250	+.000 / -.003	10.250	10.754	0.151	10.552	+.005 / -.000	10.739	+.005 / -.000	0.154	+.003 / -.003	144.49
AN-66	10.500	+.000 / -.003	10.500	11.004	0.151	10.772	+.005 / -.000	10.989	+.005 / -.000	0.154	+.003 / -.003	14.34
AN-F	10.750	+.000 / -.003	10.750	11.254	0.151	11.022	+.005 / -.000	11.239	+.005 / -.000	0.154	+.003 / -.003	39.68
AN-67	11.000	+.000 / -.003	11.000	11.504	0.151	11.272	+.005 / -.000	11.489	+.005 / -.000	0.154	+.003 / -.003	16.24
AN-FF*	11.250	+.000 / -.003	11.250	11.759	0.166	11.522	+.005 / -.000	11.739	+.005 / -.000	0.169	+.003 / -.003	44.42
AN-68	11.500	+.000 / -.003	11.500	12.009	0.166	11.772	+.005 / -.000	11.989	+.005 / -.000	0.169	+.003 / -.003	22.46
AN-69	12.000	+.000 / -.003	12.000	12.509	0.166	12.272	+.005 / -.000	12.489	+.005 / -.000	0.169	+.003 / -.003	74.19
AN-G*	12.750	+.000 / -.003	12.750	13.259	0.166	13.022	+.005 / -.000	13.239	+.005 / -.000	0.169	+.003 / -.003	59.21
AN-K	13.750	+.000 / -.003	13.750	14.259	0.166	14.022	+.005 / -.000	14.239	+.005 / -.000	0.169	+.003 / -.003	60.74
AN-74	14.500	+.000 / -.003	14.500	15.009	0.166	14.772	+.005 / -.000	14.989	+.005 / -.000	0.169	+.003 / -.003	191.46

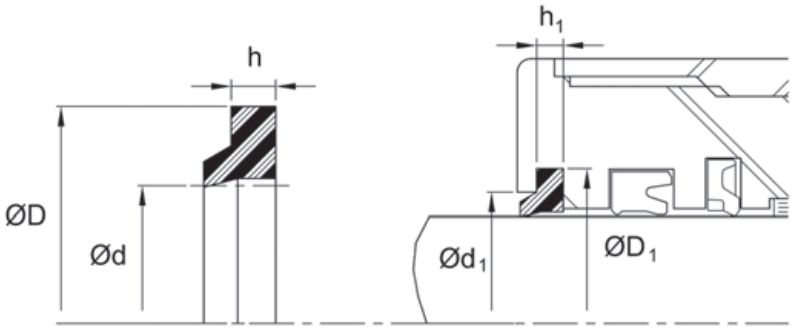
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN SERIES - AU 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-76*	15.500	+.000 / -.003	15.500	16.009	0.166	15.772	+.005 / -.000	15.989	+.005 / -.000	0.169	+.003 / -.003	209.23
AN-82	18.500	+.000 / -.003	18.500	19.009	0.166	18.772	+.005 / -.000	18.989	+.005 / -.000	0.169	+.003 / -.003	229.82

AN - Rod Wipers

FPM 90A



Temperature: -20/400F [-29/204C] **Pressures: N/A**

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	6.43
AN-02/V*	0.562	+.000 / -.002	0.562	0.829	0.104	0.710	+.005 / -.000	0.823	+.004 / -.000	0.107	+.003 / -.003	6.49
AN-03/V	0.625	+.000 / -.002	0.625	0.891	0.104	0.772	+.005 / -.000	0.885	+.004 / -.000	0.107	+.003 / -.003	7.46
AN-04/V*	0.687	+.000 / -.002	0.687	0.954	0.104	0.834	+.005 / -.000	0.948	+.004 / -.000	0.107	+.003 / -.003	7.91
AN-05/V	0.750	+.000 / -.002	0.750	1.016	0.104	0.897	+.005 / -.000	1.010	+.004 / -.000	0.107	+.003 / -.003	9.46
AN-06/V*	0.812	+.000 / -.002	0.812	1.090	0.104	0.960	+.005 / -.000	1.084	+.004 / -.000	0.107	+.003 / -.003	9.55
AN-07/V*	0.875	+.000 / -.002	0.875	1.153	0.104	1.023	+.005 / -.000	1.147	+.004 / -.000	0.107	+.003 / -.003	9.67
AN-09/V	1.000	+.000 / -.002	1.000	1.278	0.104	1.148	+.005 / -.000	1.272	+.004 / -.000	0.107	+.003 / -.003	15.13
AN-10/V*	1.062	+.000 / -.002	1.062	1.340	0.104	1.210	+.005 / -.000	1.334	+.004 / -.000	0.107	+.003 / -.003	15.56
AN-11/V	1.125	+.000 / -.002	1.125	1.403	0.104	1.273	+.005 / -.000	1.397	+.004 / -.000	0.107	+.003 / -.003	15.66
AN-12/V*	1.187	+.000 / -.002	1.187	1.465	0.104	1.335	+.005 / -.000	1.459	+.004 / -.000	0.107	+.003 / -.003	15.79
AN-13/V	1.250	+.000 / -.002	1.250	1.528	0.104	1.398	+.005 / -.000	1.522	+.004 / -.000	0.107	+.003 / -.003	10.93
AN-14/V*	1.312	+.000 / -.002	1.312	1.622	0.104	1.480	+.005 / -.000	1.614	+.004 / -.000	0.107	+.003 / -.003	15.89
AN-15/V	1.375	+.000 / -.002	1.375	1.685	0.104	1.542	+.005 / -.000	1.677	+.004 / -.000	0.107	+.003 / -.003	16.17
AN-16/V*	1.437	+.000 / -.002	1.437	1.747	0.104	1.605	+.005 / -.000	1.739	+.004 / -.000	0.107	+.003 / -.003	16.23
AN-17/V	1.500	+.000 / -.002	1.500	1.810	0.104	1.668	+.005 / -.000	1.802	+.004 / -.000	0.107	+.003 / -.003	13.35
AN-18/V*	1.625	+.000 / -.002	1.625	1.935	0.104	1.793	+.005 / -.000	1.927	+.004 / -.000	0.107	+.003 / -.003	16.47
AN-19/V	1.750	+.000 / -.002	1.750	2.060	0.104	1.918	+.005 / -.000	2.052	+.004 / -.000	0.107	+.003 / -.003	16.56
AN-20/V	1.875	+.000 / -.002	1.875	2.185	0.104	2.043	+.005 / -.000	2.177	+.004 / -.000	0.107	+.003 / -.003	16.66
AN-21/V	2.000	+.000 / -.002	2.000	2.310	0.104	2.178	+.005 / -.000	2.302	+.004 / -.000	0.107	+.003 / -.003	16.80
AN-22/V*	2.125	+.000 / -.002	2.125	2.435	0.104	2.303	+.005 / -.000	2.427	+.004 / -.000	0.107	+.003 / -.003	16.81
AN-23/V	2.250	+.000 / -.002	2.250	2.560	0.104	2.428	+.005 / -.000	2.552	+.004 / -.000	0.107	+.003 / -.003	16.90
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	16.62
AN-25/V	2.500	+.000 / -.002	2.500	2.810	0.104	2.678	+.005 / -.000	2.802	+.004 / -.000	0.107	+.003 / -.003	15.15
AN-26/V*	2.625	+.000 / -.002	2.625	2.999	0.119	2.834	+.005 / -.000	2.989	+.004 / -.000	0.122	+.003 / -.003	17.02
AN-27/V	2.750	+.000 / -.002	2.750	3.124	0.119	2.959	+.005 / -.000	3.114	+.004 / -.000	0.122	+.003 / -.003	17.29
AN-28/V*	2.875	+.000 / -.002	2.875	3.249	0.119	3.084	+.005 / -.000	3.239	+.004 / -.000	0.122	+.003 / -.003	17.59
AN-29/V	3.000	+.000 / -.002	3.000	3.374	0.119	3.209	+.005 / -.000	3.364	+.004 / -.000	0.122	+.003 / -.003	19.16
AN-30/V*	3.125	+.000 / -.002	3.125	3.499	0.119	3.334	+.005 / -.000	3.489	+.004 / -.000	0.122	+.003 / -.003	19.29

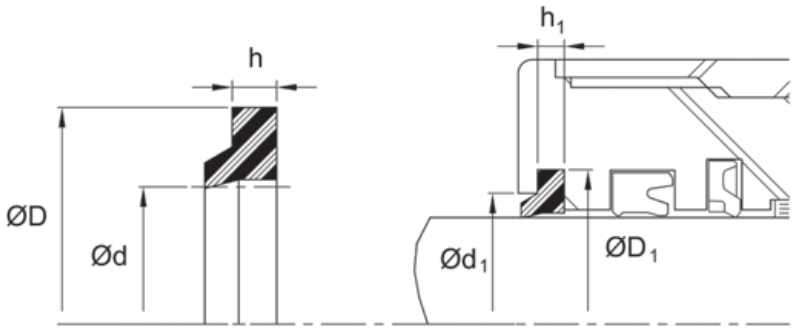
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN SERIES - FPM 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-31/V	3.250	+.000 / -.002	3.250	3.624	0.119	3.459	+.005 / -.000	3.614	+.004 / -.000	0.122	+.003 / -.003	19.71
AN-32/V*	3.375	+.000 / -.002	3.375	3.749	0.119	3.584	+.005 / -.000	3.739	+.004 / -.000	0.122	+.003 / -.003	21.54
AN-33/V	3.500	+.000 / -.002	3.500	3.874	0.119	3.709	+.005 / -.000	3.864	+.004 / -.000	0.122	+.003 / -.003	24.93
AN-35/V*	3.750	+.000 / -.002	3.750	4.124	0.119	3.959	+.005 / -.000	4.114	+.004 / -.000	0.122	+.003 / -.003	25.59
AN-36/V*	3.875	+.000 / -.002	3.875	4.249	0.119	4.084	+.005 / -.000	4.239	+.004 / -.000	0.122	+.003 / -.003	26.11
AN-37/V	4.000	+.000 / -.002	4.000	4.439	0.135	4.240	+.005 / -.000	4.427	+.004 / -.000	0.138	+.003 / -.003	26.82
AN-39/V	4.250	+.000 / -.002	4.250	4.689	0.135	4.490	+.005 / -.000	4.677	+.004 / -.000	0.138	+.003 / -.003	27.96
AN-41/V	4.500	+.000 / -.003	4.500	4.939	0.135	4.740	+.005 / -.000	4.927	+.005 / -.000	0.138	+.003 / -.003	28.74
AN-42/V*	4.625	+.000 / -.003	4.625	5.064	0.135	4.865	+.005 / -.000	5.052	+.005 / -.000	0.138	+.003 / -.003	29.37
AN-43/V*	4.750	+.000 / -.003	4.750	5.189	0.135	4.990	+.005 / -.000	5.177	+.005 / -.000	0.138	+.003 / -.003	29.83
AN-45/V*	5.000	+.000 / -.003	5.000	5.439	0.135	5.240	+.005 / -.000	5.427	+.005 / -.000	0.138	+.003 / -.003	29.94
AN-49/V	5.500	+.000 / -.003	5.500	5.939	0.135	5.740	+.005 / -.000	5.927	+.005 / -.000	0.138	+.003 / -.003	39.58
AN-51/V	5.750	+.000 / -.003	5.750	6.254	0.151	6.022	+.005 / -.000	6.239	+.005 / -.000	0.154	+.003 / -.003	40.82
AN-53/V*	6.000	+.000 / -.003	6.000	6.504	0.151	6.272	+.005 / -.000	6.489	+.005 / -.000	0.154	+.003 / -.003	41.14
AN-54/V*	6.250	+.000 / -.003	6.250	6.754	0.151	6.522	+.005 / -.000	6.739	+.005 / -.000	0.154	+.003 / -.003	41.85
AN-55/V*	6.500	+.000 / -.003	6.500	7.004	0.151	6.772	+.005 / -.000	6.989	+.005 / -.000	0.154	+.003 / -.003	45.44
AN-57/V	7.000	+.000 / -.003	7.000	7.504	0.151	7.272	+.005 / -.000	7.489	+.005 / -.000	0.154	+.003 / -.003	52.40
AN-59/V*	7.500	+.000 / -.003	7.500	8.004	0.151	7.772	+.005 / -.000	7.989	+.005 / -.000	0.154	+.003 / -.003	58.95
AN-62/V*	8.500	+.000 / -.003	8.500	9.004	0.151	8.772	+.005 / -.000	8.989	+.005 / -.000	0.154	+.003 / -.003	59.21
AN-63/V*	9.000	+.000 / -.003	9.000	9.504	0.151	9.272	+.005 / -.000	9.489	+.005 / -.000	0.154	+.003 / -.003	75.96

AN - Rod Wipers

P, 4651 = High Perf. Urethane
Temp.: -65/275F [-54/135C]
Pressure: N/A



Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	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	7.87
AN-13/4651*	1.250	+.000 / -.002	1.250	1.528	0.104	1.398	+.005 / -.000	1.522	+.004 / -.000	0.107	+.003 / -.003	8.44
AN-15/P	1.375	+.000 / -.002	1.375	1.685	0.104	1.542	+.005 / -.000	1.677	+.004 / -.000	0.107	+.003 / -.003	8.47
AN-19/P	1.750	+.000 / -.002	1.750	2.060	0.104	1.918	+.005 / -.000	2.052	+.004 / -.000	0.107	+.003 / -.003	8.74
AN-21/P	2.000	+.000 / -.002	2.000	2.310	0.104	2.178	+.005 / -.000	2.302	+.004 / -.000	0.107	+.003 / -.003	8.89
AN-25/P	2.500	+.000 / -.002	2.500	2.810	0.104	2.678	+.005 / -.000	2.802	+.004 / -.000	0.107	+.003 / -.003	9.35
AN-29/4651	3.000	+.000 / -.002	3.000	3.374	0.119	3.209	+.005 / -.000	3.364	+.004 / -.000	0.122	+.003 / -.003	15.18
AN-33/P	3.500	+.000 / -.002	3.500	3.874	0.119	3.709	+.005 / -.000	3.864	+.004 / -.000	0.122	+.003 / -.003	14.62
AN-37/P	4.000	+.000 / -.002	4.000	4.439	0.135	4.240	+.005 / -.000	4.427	+.004 / -.000	0.138	+.003 / -.003	15.65
AN-39/4651	4.250	+.000 / -.002	4.250	4.689	0.135	4.490	+.005 / -.000	4.677	+.004 / -.000	0.138	+.003 / -.003	20.84

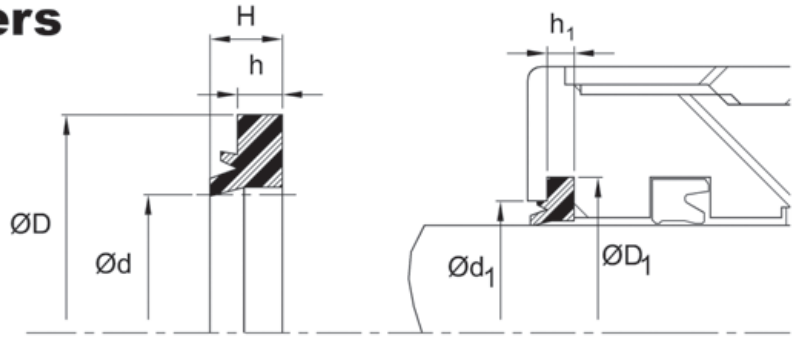
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN SERIES - P, 4651 = HIGH PERF. URETHANE

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-41/4651	4.500	+.000 / -.003	4.500	4.939	0.135	4.740	+.005 / -.000	4.927	+.005 / -.000	0.138	+.003 / -.003	23.84
AN-45/4651	5.000	+.000 / -.003	5.000	5.439	0.135	5.240	+.005 / -.000	5.427	+.005 / -.000	0.138	+.003 / -.003	27.23
AN-49/4651	5.500	+.000 / -.003	5.500	5.939	0.135	5.740	+.005 / -.000	5.927	+.005 / -.000	0.138	+.003 / -.003	37.55
AN-51/4651	5.750	+.000 / -.003	5.750	6.254	0.151	6.022	+.005 / -.000	6.239	+.005 / -.000	0.154	+.003 / -.003	38.79
AN-55/4651	6.500	+.000 / -.003	6.500	7.004	0.151	6.772	+.005 / -.000	6.989	+.005 / -.000	0.154	+.003 / -.003	42.79
AN-57/4651*	7.000	+.000 / -.003	7.000	7.504	0.151	7.272	+.005 / -.000	7.489	+.005 / -.000	0.154	+.003 / -.003	45.61
AN-61/4651	8.000	+.000 / -.003	8.000	8.504	0.151	8.272	+.005 / -.000	8.489	+.005 / -.000	0.154	+.003 / -.003	57.40

AN/DL - Rod Wipers

Hytrel 92A



Temperature: -40/300F [-40/189C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-01DL*	0.500	+.000 / -.002	0.500	0.766	0.104	0.647	+.005 / -.000	0.760	+.005 / -.000	0.107	+.003 / -.003	2.30
AN-02DL*	0.562	+.000 / -.002	0.562	0.829	0.104	0.710	+.005 / -.000	0.823	+.005 / -.000	0.107	+.003 / -.003	2.32
AN-03DL*	0.625	+.000 / -.002	0.625	0.891	0.104	0.772	+.005 / -.000	0.885	+.005 / -.000	0.107	+.003 / -.003	2.33
AN-04DL*	0.687	+.000 / -.002	0.687	0.954	0.104	0.834	+.005 / -.000	0.948	+.005 / -.000	0.107	+.003 / -.003	2.33
AN-05DL*	0.750	+.000 / -.002	0.750	1.016	0.104	0.897	+.005 / -.000	1.010	+.005 / -.000	0.107	+.003 / -.003	2.34
AN-06DL*	0.812	+.000 / -.002	0.812	1.090	0.104	0.960	+.005 / -.000	1.084	+.005 / -.000	0.107	+.003 / -.003	2.37
AN-07DL*	0.875	+.000 / -.002	0.875	1.153	0.104	1.023	+.005 / -.000	1.147	+.005 / -.000	0.107	+.003 / -.003	2.37
AN-08DL*	0.937	+.000 / -.002	0.937	1.215	0.104	1.085	+.005 / -.000	1.209	+.005 / -.000	0.107	+.003 / -.003	2.39
AN-09DL	1.000	+.000 / -.002	1.000	1.278	0.104	1.148	+.005 / -.000	1.272	+.005 / -.000	0.107	+.003 / -.003	2.40
AN-10DL*	1.062	+.000 / -.002	1.062	1.340	0.104	1.210	+.005 / -.000	1.334	+.005 / -.000	0.107	+.003 / -.003	2.42
AN-11DL*	1.125	+.000 / -.002	1.125	1.403	0.104	1.273	+.005 / -.000	1.397	+.005 / -.000	0.107	+.003 / -.003	2.42
AN-12DL*	1.187	+.000 / -.002	1.187	1.465	0.104	1.335	+.005 / -.000	1.459	+.005 / -.000	0.107	+.003 / -.003	2.43
AN-13DL	1.250	+.000 / -.002	1.250	1.528	0.104	1.398	+.005 / -.000	1.522	+.005 / -.000	0.107	+.003 / -.003	2.44
AN-14DL*	1.312	+.000 / -.002	1.312	1.622	0.104	1.480	+.005 / -.000	1.614	+.005 / -.000	0.107	+.003 / -.003	2.46
AN-15DL	1.375	+.000 / -.002	1.375	1.685	0.104	1.542	+.005 / -.000	1.677	+.005 / -.000	0.107	+.003 / -.003	2.47
AN-16DL*	1.437	+.000 / -.002	1.437	1.747	0.104	1.605	+.005 / -.000	1.739	+.005 / -.000	0.107	+.003 / -.003	2.47
AN-17DL*	1.500	+.000 / -.002	1.500	1.810	0.104	1.668	+.005 / -.000	1.802	+.005 / -.000	0.107	+.003 / -.003	2.49
AN-18DL*	1.625	+.000 / -.002	1.625	1.935	0.104	1.793	+.005 / -.000	1.927	+.005 / -.000	0.107	+.003 / -.003	2.52
AN-19DL	1.750	+.000 / -.002	1.750	2.060	0.104	1.918	+.005 / -.000	2.052	+.005 / -.000	0.107	+.003 / -.003	2.54
AN-20DL*	1.875	+.000 / -.002	1.875	2.185	0.104	2.043	+.005 / -.000	2.177	+.005 / -.000	0.107	+.003 / -.003	2.56
AN-21DL	2.000	+.000 / -.002	2.000	2.310	0.104	2.178	+.005 / -.000	2.302	+.005 / -.000	0.107	+.003 / -.003	2.59
AN-22DL*	2.125	+.000 / -.002	2.125	2.435	0.104	2.303	+.005 / -.000	2.427	+.005 / -.000	0.107	+.003 / -.003	2.60
AN-23DL*	2.250	+.000 / -.002	2.250	2.560	0.104	2.428	+.005 / -.000	2.552	+.005 / -.000	0.107	+.003 / -.003	2.63

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

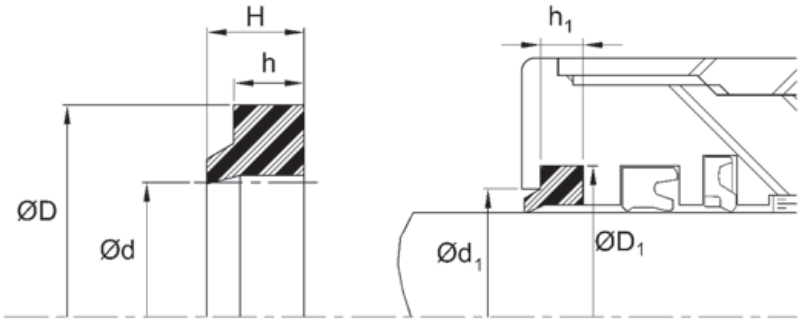
AN/DL SERIES - HYTREL 92A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
AN-24DL*	2.375	+.000 / -.002	2.375	2.685	0.104	2.553	+.005 / -.000	2.677	+.005 / -.000	0.107	+.003 / -.003	2.64
AN-25DL	2.500	+.000 / -.002	2.500	2.810	0.104	2.678	+.005 / -.000	2.802	+.005 / -.000	0.107	+.003 / -.003	2.66
AN-26DL*	2.625	+.000 / -.002	2.625	2.999	0.119	2.834	+.005 / -.000	2.989	+.005 / -.000	0.122	+.003 / -.003	3.00
AN-27DL*	2.750	+.000 / -.002	2.750	3.124	0.119	2.959	+.005 / -.000	3.114	+.005 / -.000	0.122	+.003 / -.003	3.03
AN-28DL*	2.875	+.000 / -.002	2.875	3.249	0.119	3.084	+.005 / -.000	3.239	+.005 / -.000	0.122	+.003 / -.003	3.06
AN-29DL	3.000	+.000 / -.002	3.000	3.374	0.119	3.209	+.005 / -.000	3.364	+.005 / -.000	0.122	+.003 / -.003	3.10
AN-30DL*	3.125	+.000 / -.002	3.125	3.499	0.119	3.334	+.005 / -.000	3.489	+.005 / -.000	0.122	+.003 / -.003	3.14
AN-31DL*	3.250	+.000 / -.002	3.250	3.624	0.119	3.459	+.005 / -.000	3.614	+.005 / -.000	0.122	+.003 / -.003	3.17
AN-32DL*	3.375	+.000 / -.002	3.375	3.749	0.119	3.584	+.005 / -.000	3.739	+.005 / -.000	0.122	+.003 / -.003	3.20
AN-33DL	3.500	+.000 / -.002	3.500	3.874	0.119	3.709	+.005 / -.000	3.864	+.005 / -.000	0.122	+.003 / -.003	3.24
AN-34DL*	3.625	+.000 / -.002	3.625	3.999	0.119	3.834	+.005 / -.000	3.989	+.005 / -.000	0.122	+.003 / -.003	3.29
AN-35DL*	3.750	+.000 / -.002	3.750	4.124	0.119	3.959	+.005 / -.000	4.114	+.005 / -.000	0.122	+.003 / -.003	3.32
AN-36DL*	3.875	+.000 / -.002	3.875	4.249	0.119	4.084	+.005 / -.000	4.239	+.005 / -.000	0.122	+.003 / -.003	3.34
AN-37DL	4.000	+.000 / -.002	4.000	4.439	0.135	4.240	+.005 / -.000	4.427	+.005 / -.000	0.138	+.003 / -.003	3.69
AN-38DL*	4.125	+.000 / -.002	4.125	4.564	0.135	4.365	+.005 / -.000	4.552	+.005 / -.000	0.138	+.003 / -.003	3.73
AN-39DL*	4.250	+.000 / -.002	4.250	4.689	0.135	4.490	+.005 / -.000	4.677	+.005 / -.000	0.138	+.003 / -.003	3.81
AN-40DL*	4.375	+.000 / -.003	4.375	4.814	0.135	4.615	+.005 / -.000	4.802	+.005 / -.000	0.138	+.003 / -.003	3.82
AN-41DL*	4.500	+.000 / -.003	4.500	4.939	0.135	4.740	+.005 / -.000	4.927	+.005 / -.000	0.138	+.003 / -.003	3.86
AN-42DL*	4.625	+.000 / -.003	4.625	5.064	0.135	4.865	+.005 / -.000	5.052	+.005 / -.000	0.138	+.003 / -.003	3.90
AN-43DL	4.750	+.000 / -.003	4.750	5.189	0.135	4.990	+.005 / -.000	5.177	+.005 / -.000	0.138	+.003 / -.003	6.13
AN-44DL*	4.875	+.000 / -.003	4.875	5.314	0.135	5.115	+.005 / -.000	5.302	+.005 / -.000	0.138	+.003 / -.003	6.16
AN-45DL	5.000	+.000 / -.003	5.000	5.439	0.135	5.240	+.005 / -.000	5.427	+.005 / -.000	0.138	+.003 / -.003	6.20
AN-46DL*	5.125	+.000 / -.003	5.125	5.564	0.135	5.365	+.005 / -.000	5.552	+.005 / -.000	0.138	+.003 / -.003	7.19
AN-47DL*	5.250	+.000 / -.003	5.250	5.689	0.135	5.490	+.005 / -.000	5.677	+.005 / -.000	0.138	+.003 / -.003	6.63
AN-48DL*	5.375	+.000 / -.003	5.375	5.814	0.135	5.615	+.005 / -.000	5.802	+.005 / -.000	0.138	+.003 / -.003	6.33
AN-49DL*	5.500	+.000 / -.003	5.500	5.939	0.135	5.740	+.005 / -.000	5.927	+.005 / -.000	0.138	+.003 / -.003	6.37
AN-50DL*	5.625	+.000 / -.003	5.625	6.128	0.151	5.896	+.005 / -.000	6.114	+.005 / -.000	0.154	+.003 / -.003	6.87
AN-51DL*	5.750	+.000 / -.003	5.750	6.254	0.151	6.022	+.005 / -.000	6.239	+.005 / -.000	0.154	+.003 / -.003	6.93
AN-52DL*	5.875	+.000 / -.003	5.875	6.379	0.151	6.146	+.005 / -.000	6.364	+.005 / -.000	0.154	+.003 / -.003	9.27
AN-53DL	6.000	+.000 / -.003	6.000	6.504	0.151	6.272	+.005 / -.000	6.489	+.005 / -.000	0.154	+.003 / -.003	7.03
AN-54DL*	6.250	+.000 / -.003	6.250	6.754	0.151	6.522	+.005 / -.000	6.739	+.005 / -.000	0.154	+.003 / -.003	7.13
AN-55DL	6.500	+.000 / -.003	6.500	7.004	0.151	6.772	+.005 / -.000	6.989	+.005 / -.000	0.154	+.003 / -.003	7.23
AN-56DL*	6.750	+.000 / -.003	6.750	7.254	0.151	7.022	+.005 / -.000	7.239	+.005 / -.000	0.154	+.003 / -.003	7.35
AN-57DL*	7.000	+.000 / -.003	7.000	7.504	0.151	7.272	+.005 / -.000	7.489	+.005 / -.000	0.154	+.003 / -.003	7.45

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

D - Rod Wipers

Polyurethane AU 90A



Temperature: -40/250F [-40/120C] **Pressures: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	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	0.125	+.003 / -.001	2.23
D-00250*	0.250	+.000 / -.002	0.250	0.500	0.125	0.410	+.010 / -.000	0.497	+.006 / -.000	0.124	+.004 / -.000	2.23
D-00312	0.312	+.000 / -.002	0.312	0.562	0.125	0.475	+.010 / -.000	0.560	+.006 / -.000	0.124	+.004 / -.000	2.23
D-00375	0.375	+.000 / -.002	0.375	0.625	0.125	0.535	+.010 / -.000	0.622	+.006 / -.000	0.124	+.004 / -.000	2.23
D-00437	0.437	+.000 / -.002	0.437	0.687	0.125	0.600	+.010 / -.000	0.685	+.006 / -.000	0.124	+.004 / -.000	2.20
D-00500	0.500	+.000 / -.002	0.500	0.750	0.125	0.660	+.010 / -.000	0.747	+.006 / -.000	0.124	+.004 / -.000	2.54
D-00562	0.562	+.000 / -.002	0.562	0.812	0.125	0.725	+.010 / -.000	0.810	+.006 / -.000	0.124	+.004 / -.000	2.54
D-00625	0.625	+.000 / -.002	0.625	0.875	0.125	0.785	+.010 / -.000	0.872	+.006 / -.000	0.124	+.004 / -.000	2.54
D-00687*	0.687	+.000 / -.002	0.687	0.937	0.125	0.850	+.010 / -.000	0.935	+.006 / -.000	0.124	+.004 / -.000	2.35
D-00750	0.750	+.000 / -.003	0.750	1.125	0.187	0.995	+.010 / -.000	1.122	+.006 / -.000	0.187	+.004 / -.000	2.54
D-00812*	0.812	+.000 / -.003	0.812	1.187	0.187	1.060	+.010 / -.000	1.185	+.006 / -.000	0.187	+.004 / -.000	2.54
D-00875	0.875	+.000 / -.003	0.875	1.250	0.187	1.120	+.010 / -.000	1.247	+.006 / -.000	0.187	+.004 / -.000	2.54
D-00937*	0.937	+.000 / -.003	0.937	1.312	0.187	1.185	+.010 / -.000	1.309	+.006 / -.000	0.187	+.004 / -.000	2.31
D-01000	1.000	+.000 / -.003	1.000	1.375	0.187	1.245	+.010 / -.000	1.372	+.006 / -.000	0.187	+.004 / -.000	2.54
D-01000/R	1.000	+.000 / -.003	1.000	1.375	0.175	1.245	+.010 / -.000	1.372	+.006 / -.000	0.175	+.004 / -.000	2.31
D-01062	1.062	+.000 / -.003	1.062	1.437	0.187	1.310	+.010 / -.000	1.435	+.006 / -.000	0.187	+.004 / -.000	3.18
D-01100*	1.100	+.000 / -.003	1.100	1.490	0.187	1.345	+.010 / -.000	1.487	+.006 / -.000	0.187	+.004 / -.000	2.54
D-01125	1.125	+.000 / -.003	1.125	1.500	0.187	1.370	+.010 / -.000	1.497	+.006 / -.000	0.187	+.004 / -.000	2.54
D-01187	1.187	+.000 / -.003	1.187	1.562	0.187	1.435	+.010 / -.000	1.560	+.006 / -.000	0.187	+.004 / -.000	2.58
D-01250	1.250	+.000 / -.003	1.250	1.625	0.187	1.495	+.010 / -.000	1.622	+.006 / -.000	0.187	+.004 / -.000	2.76
D-01250/R*	1.250	+.000 / -.003	1.250	1.625	0.175	1.495	+.010 / -.000	1.622	+.006 / -.000	0.175	+.004 / -.000	2.97
D-01312	1.312	+.000 / -.003	1.312	1.687	0.187	1.560	+.010 / -.000	1.685	+.006 / -.000	0.187	+.004 / -.000	4.92
D-01375	1.375	+.000 / -.003	1.375	1.750	0.187	1.620	+.010 / -.000	1.747	+.006 / -.000	0.187	+.004 / -.000	2.95
D-01437	1.437	+.000 / -.003	1.437	1.812	0.187	1.685	+.010 / -.000	1.810	+.006 / -.000	0.187	+.004 / -.000	10.27
D-01500	1.500	+.000 / -.003	1.500	1.875	0.187	1.745	+.010 / -.000	1.872	+.006 / -.000	0.187	+.004 / -.000	3.24
D-01500/4615	1.500	+.000 / -.003	1.500	1.875	0.187	1.745	+.010 / -.000	1.872	+.006 / -.000	0.187	+.004 / -.000	3.24
D-01500/R*	1.500	+.000 / -.003	1.500	1.875	0.175	1.745	+.010 / -.000	1.872	+.006 / -.000	0.175	+.004 / -.000	3.69
D-01562	1.562	+.000 / -.003	1.562	1.937	0.187	1.810	+.010 / -.000	1.935	+.006 / -.000	0.187	+.004 / -.000	3.25
D-01625	1.625	+.000 / -.003	1.625	2.000	0.187	1.870	+.010 / -.000	1.997	+.006 / -.000	0.187	+.004 / -.000	3.35
D-01750	1.750	+.000 / -.003	1.750	2.125	0.187	1.995	+.010 / -.000	2.122	+.006 / -.000	0.187	+.004 / -.000	3.63
D-01875	1.875	+.000 / -.003	1.875	2.250	0.187	2.120	+.010 / -.000	2.247	+.006 / -.000	0.187	+.004 / -.000	3.75
D-01937*	1.937	+.000 / -.003	1.937	2.312	0.187	2.185	+.010 / -.000	2.309	+.006 / -.000	0.187	+.004 / -.000	3.90
D-02000	2.000	+.000 / -.003	2.000	2.500	0.250	2.327	+.010 / -.000	2.497	+.006 / -.000	0.249	+.004 / -.000	3.80
D-02000/R	2.000	+.000 / -.003	2.000	2.375	0.187	2.327	+.010 / -.000	2.372	+.006 / -.000	0.187	+.004 / -.000	4.22
D-02001*	2.000	+.000 / -.003	2.000	2.375	0.187	2.245	+.010 / -.000	2.372	+.006 / -.000	0.187	+.004 / -.000	4.49
D-02125	2.125	+.000 / -.003	2.125	2.625	0.250	2.452	+.010 / -.000	2.622	+.006 / -.000	0.249	+.004 / -.000	3.94
D-02250	2.250	+.000 / -.003	2.250	2.750	0.250	2.577	+.010 / -.000	2.747	+.006 / -.000	0.249	+.004 / -.000	4.01
D-02250/4615*	2.250	+.000 / -.003	2.250	2.750	0.250	2.577	+.010 / -.000	2.747	+.006 / -.000	0.249	+.004 / -.000	4.02

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D SERIES - AU 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-02312	2.312	+.000 / -.003	2.312	2.812	0.250	2.640	+.010 / -.000	2.810	+.006 / -.000	0.249	+.004 / -.000	8.62
D-02375	2.375	+.000 / -.003	2.375	2.875	0.250	2.702	+.010 / -.000	2.872	+.006 / -.000	0.249	+.004 / -.000	4.22
D-02500	2.500	+.000 / -.003	2.500	3.000	0.250	2.827	+.010 / -.000	2.997	+.006 / -.000	0.249	+.004 / -.000	4.50
D-02500/4615	2.500	+.000 / -.003	2.500	3.000	0.250	2.827	+.010 / -.000	2.997	+.006 / -.000	0.249	+.004 / -.000	4.50
D-02562	2.562	+.000 / -.003	2.562	3.062	0.250	2.890	+.010 / -.000	3.060	+.006 / -.000	0.249	+.004 / -.000	9.28
D-02625	2.625	+.000 / -.003	2.625	3.125	0.250	2.952	+.010 / -.000	3.122	+.006 / -.000	0.249	+.004 / -.000	4.50
D-02750	2.750	+.000 / -.003	2.750	3.250	0.250	3.077	+.010 / -.000	3.247	+.006 / -.000	0.249	+.004 / -.000	4.61
D-02875	2.875	+.000 / -.003	2.875	3.375	0.250	3.202	+.010 / -.000	3.372	+.006 / -.000	0.249	+.004 / -.000	4.80
D-03000	3.000	+.000 / -.004	3.000	3.500	0.250	3.327	+.010 / -.000	3.497	+.006 / -.000	0.249	+.004 / -.000	4.80
D-03125	3.125	+.000 / -.004	3.125	3.625	0.250	3.452	+.010 / -.000	3.622	+.006 / -.000	0.249	+.004 / -.000	5.34
D-03250	3.250	+.000 / -.004	3.250	3.750	0.250	3.577	+.010 / -.000	3.747	+.006 / -.000	0.249	+.004 / -.000	5.34
D-03375	3.375	+.000 / -.004	3.375	3.875	0.250	3.702	+.010 / -.000	3.872	+.006 / -.000	0.249	+.004 / -.000	5.96
D-03500	3.500	+.000 / -.004	3.500	4.000	0.250	3.827	+.010 / -.000	3.997	+.006 / -.000	0.249	+.004 / -.000	5.50
D-03625	3.625	+.000 / -.004	3.625	4.125	0.250	3.952	+.010 / -.000	4.122	+.006 / -.000	0.249	+.004 / -.000	6.38
D-03750	3.750	+.000 / -.004	3.750	4.250	0.250	4.077	+.010 / -.000	4.247	+.006 / -.000	0.249	+.004 / -.000	6.38
D-03875	3.875	+.000 / -.004	3.875	4.375	0.250	4.202	+.010 / -.000	4.372	+.006 / -.000	0.249	+.004 / -.000	7.17
D-04000	4.000	+.000 / -.004	4.000	4.500	0.250	4.327	+.010 / -.000	4.497	+.006 / -.000	0.249	+.004 / -.000	7.17
D-04001	4.000	+.000 / -.004	4.000	4.625	0.312	4.368	+.010 / -.000	4.625	+.006 / -.000	0.312	+.005 / -.001	28.85
D-04125	4.125	+.000 / -.004	4.125	4.625	0.250	4.452	+.010 / -.000	4.622	+.006 / -.000	0.249	+.004 / -.000	7.30
D-04250	4.250	+.000 / -.004	4.250	4.750	0.250	4.577	+.010 / -.000	4.747	+.006 / -.000	0.249	+.004 / -.000	7.40
D-04375	4.375	+.000 / -.004	4.375	4.875	0.250	4.702	+.010 / -.000	4.872	+.006 / -.000	0.249	+.004 / -.000	7.94
D-04500	4.500	+.000 / -.004	4.500	5.250	0.375	4.993	+.010 / -.000	5.247	+.006 / -.000	0.374	+.004 / -.000	7.94
D-04502	4.500	+.000 / -.004	4.500	5.000	0.312	4.827	+.010 / -.000	4.997	+.006 / -.000	0.311	+.004 / -.000	40.58
D-04503	4.500	+.000 / -.004	4.500	5.500	0.500	4.820	+.010 / -.000	5.500	+.006 / -.000	0.499	+.004 / -.000	212.67
D-04625	4.625	+.000 / -.004	4.625	5.375	0.375	5.118	+.010 / -.000	5.372	+.006 / -.000	0.374	+.004 / -.000	17.36
D-04750	4.750	+.000 / -.004	4.750	5.500	0.375	5.243	+.010 / -.000	5.497	+.006 / -.000	0.374	+.004 / -.000	8.50
D-04751	4.750	+.000 / -.004	4.750	5.250	0.250	5.077	+.010 / -.000	5.247	+.006 / -.000	0.249	+.004 / -.000	8.04
D-04875	4.875	+.000 / -.004	4.875	5.625	0.375	5.368	+.010 / -.000	5.622	+.006 / -.000	0.374	+.004 / -.000	10.13
D-05000	5.000	+.000 / -.004	5.000	5.750	0.375	5.493	+.010 / -.000	5.747	+.006 / -.000	0.374	+.004 / -.000	11.21
D-05125	5.125	+.000 / -.004	5.125	5.875	0.375	5.618	+.010 / -.000	5.872	+.006 / -.000	0.374	+.004 / -.000	24.23
D-05250	5.250	+.000 / -.004	5.250	6.000	0.375	5.743	+.010 / -.000	5.997	+.006 / -.000	0.374	+.004 / -.000	13.84
D-05375	5.375	+.000 / -.004	5.375	6.125	0.375	5.868	+.010 / -.000	6.122	+.006 / -.000	0.374	+.004 / -.000	26.60
D-05500	5.500	+.000 / -.004	5.500	6.250	0.375	5.993	+.010 / -.000	6.247	+.006 / -.000	0.374	+.004 / -.000	13.93
D-05501	5.500	+.000 / -.004	5.500	6.125	0.375	5.868	+.010 / -.000	6.122	+.006 / -.000	0.374	+.005 / -.001	42.45
D-05625	5.625	+.000 / -.004	5.625	6.375	0.375	6.118	+.010 / -.000	6.372	+.006 / -.000	0.374	+.004 / -.000	28.54
D-05750	5.750	+.000 / -.004	5.750	6.500	0.375	6.243	+.010 / -.000	6.497	+.006 / -.000	0.374	+.004 / -.000	15.67
D-05875	5.875	+.000 / -.004	5.875	6.625	0.375	6.368	+.010 / -.000	6.622	+.006 / -.000	0.374	+.004 / -.000	29.90
D-06000	6.000	+.000 / -.004	6.000	6.750	0.375	6.493	+.010 / -.000	6.747	+.006 / -.000	0.374	+.004 / -.000	16.49
D-06125	6.125	+.000 / -.004	6.125	6.875	0.375	6.618	+.010 / -.000	6.872	+.006 / -.000	0.374	+.004 / -.000	42.91
D-06250	6.250	+.000 / -.004	6.250	7.000	0.375	6.743	+.010 / -.000	6.997	+.006 / -.000	0.374	+.004 / -.000	16.94
D-06251	6.250	+.000 / -.004	6.250	6.750	0.250	6.577	+.010 / -.000	6.747	+.006 / -.000	0.249	+.004 / -.000	31.26
D-06500	6.500	+.000 / -.004	6.500	7.250	0.375	6.993	+.010 / -.000	7.247	+.006 / -.000	0.374	+.004 / -.000	17.37
D-06501	6.500	+.000 / -.004	6.500	7.500	0.500	7.100	+.010 / -.000	7.497	+.011 / -.000	0.499	+.006 / -.001	67.93
D-06502	6.500	+.000 / -.004	6.500	7.500	0.400	7.100	+.010 / -.000	7.497	+.011 / -.000	0.400	+.006 / -.001	99.69
D-06625*	6.625	+.000 / -.004	6.625	7.375	0.375	7.118	+.010 / -.000	7.372	+.006 / -.000	0.374	+.004 / -.000	33.60
D-06750	6.750	+.000 / -.004	6.750	7.500	0.375	7.243	+.010 / -.000	7.497	+.006 / -.000	0.374	+.004 / -.000	18.17
D-06751	6.750	+.000 / -.004	6.750	7.250	0.250	7.077	+.010 / -.000	7.247	+.006 / -.000	0.249	+.004 / -.000	48.68
D-07000	7.000	+.000 / -.005	7.000	7.750	0.375	7.493	+.010 / -.000	7.747	+.006 / -.000	0.374	+.004 / -.000	19.56

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D SERIES - AU 90A

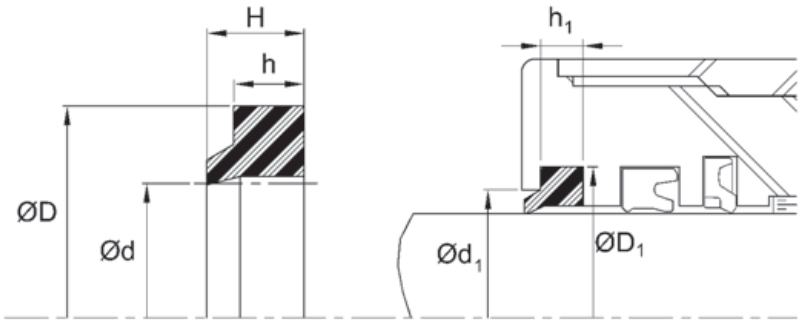
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-07001	7.000	+.000 / -.005	7.000	8.000	0.500	7.600	+.010 / -.000	8.000	+.011 / -.000	0.500	+.006 / -.001	56.59
D-07002	7.000	+.000 / -.005	7.000	8.000	0.400	7.600	+.010 / -.000	8.000	+.011 / -.000	0.400	+.006 / -.001	56.84
D-07250	7.250	+.000 / -.005	7.250	8.000	0.375	7.743	+.010 / -.000	7.997	+.006 / -.000	0.374	+.004 / -.000	19.55
D-07500	7.500	+.000 / -.005	7.500	8.250	0.375	7.993	+.010 / -.000	8.247	+.006 / -.000	0.374	+.004 / -.000	20.28
D-07501	7.500	+.000 / -.005	7.500	8.500	0.500	8.100	+.010 / -.000	8.500	+.011 / -.000	0.500	+.006 / -.001	71.81
D-07502	7.500	+.000 / -.005	7.500	8.500	0.375	8.100	+.010 / -.000	8.500	+.011 / -.000	0.374	+.006 / -.001	71.81
D-07750	7.750	+.000 / -.005	7.750	8.500	0.375	8.243	+.010 / -.000	8.497	+.006 / -.000	0.374	+.004 / -.000	21.74
D-08000	8.000	+.000 / -.005	8.000	8.750	0.375	8.493	+.010 / -.000	8.747	+.006 / -.000	0.374	+.004 / -.000	23.23
D-08001	8.000	+.000 / -.005	8.000	8.500	0.250	8.327	+.010 / -.000	8.497	+.006 / -.000	0.249	+.004 / -.000	23.23
D-08002	8.000	+.000 / -.005	8.000	9.000	0.500	8.600	+.010 / -.000	9.000	+.011 / -.000	0.500	+.006 / -.001	139.56
D-08121*	8.125	+.000 / -.005	8.125	8.625	0.250	8.457	+.005 / -.005	8.625	+.003 / -.003	0.250	+.004 / -.000	30.01
D-08250	8.250	+.000 / -.005	8.250	9.000	0.375	8.743	+.010 / -.000	8.997	+.006 / -.000	0.374	+.004 / -.000	23.55
D-08500	8.500	+.000 / -.005	8.500	9.250	0.375	8.993	+.010 / -.000	9.247	+.006 / -.000	0.374	+.004 / -.000	23.55
D-08501	8.500	+.000 / -.005	8.500	9.000	0.250	8.827	+.010 / -.000	8.997	+.006 / -.000	0.249	+.004 / -.000	44.43
D-08750	8.750	+.000 / -.005	8.750	9.500	0.375	9.243	+.010 / -.000	9.497	+.006 / -.000	0.374	+.004 / -.000	25.01
D-08875*	8.875	+.000 / -.005	8.875	9.625	0.375	9.368	+.010 / -.000	9.622	+.006 / -.000	0.374	+.004 / -.000	47.38
D-09000	9.000	+.000 / -.005	9.000	9.750	0.375	9.493	+.010 / -.000	9.747	+.006 / -.000	0.374	+.004 / -.000	26.76
D-09001	9.000	+.000 / -.005	9.000	10.000	0.500	9.600	+.010 / -.000	10.000	+.011 / -.000	0.500	+.006 / -.001	129.28
D-09250*	9.250	+.000 / -.005	9.250	10.000	0.375	9.743	+.010 / -.000	9.997	+.006 / -.000	0.374	+.004 / -.000	49.08
D-09500	9.500	+.000 / -.005	9.500	10.250	0.375	9.993	+.010 / -.000	10.247	+.006 / -.000	0.374	+.004 / -.000	28.12
D-09501*	9.500	+.000 / -.005	9.500	10.500	0.500	10.100	+.010 / -.000	10.497	+.011 / -.000	0.500	+.006 / -.001	92.79
D-09750	9.750	+.000 / -.005	9.750	10.500	0.375	10.243	+.010 / -.000	10.497	+.006 / -.000	0.374	+.004 / -.000	30.01
D-09751	9.750	+.000 / -.005	9.750	10.250	0.277	10.077	+.010 / -.000	10.247	+.006 / -.000	0.278	+.004 / -.000	61.21
D-09752*	9.750	+.000 / -.005	9.750	10.375	0.312	10.055	+.010 / -.000	10.372	+.006 / -.000	0.311	+.004 / -.000	65.25
D-10000	10.000	+.000 / -.005	10.000	11.000	0.500	10.659	+.010 / -.000	10.997	+.006 / -.000	0.499	+.004 / -.000	34.38
D-10001	10.000	+.000 / -.005	10.000	10.500	0.250	10.327	+.010 / -.000	10.497	+.006 / -.000	0.249	+.004 / -.000	39.95
D-10250*	10.250	+.000 / -.005	10.250	11.250	0.500	10.909	+.010 / -.000	11.247	+.006 / -.000	0.499	+.004 / -.000	62.92
D-10500	10.500	+.000 / -.005	10.500	11.500	0.500	11.159	+.010 / -.000	11.497	+.006 / -.000	0.499	+.004 / -.000	64.42
D-10625*	10.625	+.000 / -.005	10.625	11.625	0.500	11.248	+.010 / -.000	11.622	+.006 / -.000	0.499	+.004 / -.000	65.15
D-10750	10.750	+.000 / -.005	10.750	11.750	0.500	11.409	+.010 / -.000	11.747	+.006 / -.000	0.499	+.004 / -.000	75.32
D-11000	11.000	+.000 / -.005	11.000	12.000	0.500	11.659	+.010 / -.000	11.997	+.006 / -.000	0.499	+.004 / -.000	37.29
D-11250	11.250	+.000 / -.005	11.250	12.250	0.500	11.909	+.010 / -.000	12.247	+.006 / -.000	0.499	+.004 / -.000	95.93
D-11500	11.500	+.000 / -.005	11.500	12.500	0.500	12.159	+.010 / -.000	12.497	+.006 / -.000	0.499	+.004 / -.000	99.14
D-11750	11.750	+.000 / -.005	11.750	12.750	0.500	12.409	+.010 / -.000	12.747	+.006 / -.000	0.499	+.004 / -.000	105.30
D-12000	12.000	+.000 / -.005	12.000	13.000	0.500	12.659	+.010 / -.000	12.997	+.006 / -.000	0.499	+.004 / -.000	39.90
D-12001	12.000	+.000 / -.005	12.000	12.500	0.250	12.296	+.010 / -.000	12.500	+.006 / -.000	0.250	+.004 / -.000	115.88
D-12002	12.000	+.000 / -.005	12.000	13.250	0.500	12.909	+.010 / -.000	13.250	+.011 / -.000	0.499	+.006 / -.001	84.32
D-12500	12.500	+.000 / -.005	12.500	13.500	0.500	13.159	+.010 / -.000	13.497	+.006 / -.000	0.499	+.004 / -.000	191.84
D-13000	13.000	+.000 / -.005	13.000	14.000	0.500	13.659	+.010 / -.000	13.997	+.006 / -.000	0.499	+.004 / -.000	116.79
D-13500	13.500	+.000 / -.005	13.500	14.500	0.500	14.159	+.010 / -.000	14.497	+.006 / -.000	0.499	+.004 / -.000	127.46
D-13750*	13.750	+.000 / -.005	13.750	14.750	0.500	14.409	+.010 / -.000	14.747	+.006 / -.000	0.499	+.004 / -.000	132.55
D-14000	14.000	+.000 / -.005	14.000	15.000	0.500	14.659	+.010 / -.000	14.997	+.006 / -.000	0.499	+.004 / -.000	136.12
D-14750*	14.750	+.000 / -.005	14.750	15.750	0.500	15.409	+.010 / -.000	15.747	+.006 / -.000	0.499	+.004 / -.000	140.22
D-15000	15.000	+.000 / -.005	15.000	16.000	0.500	15.659	+.010 / -.000	15.997	+.006 / -.000	0.499	+.004 / -.000	142.61
D-16000	16.000	+.000 / -.005	16.000	17.000	0.500	16.659	+.010 / -.000	16.997	+.006 / -.000	0.499	+.004 / -.000	177.63
D-16500*	16.500	+.000 / -.005	16.500	17.500	0.500	17.159	+.010 / -.000	17.447	+.006 / -.000	0.499	+.004 / -.000	152.94
D-17375*	17.375	+.000 / -.005	17.375	18.375	0.500	18.034	+.010 / -.000	18.372	+.006 / -.000	0.499	+.004 / -.000	163.53
D-18000	18.000	+.000 / -.005	18.000	19.000	0.500	18.659	+.010 / -.000	18.997	+.006 / -.000	0.499	+.004 / -.000	155.75

*** : 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.	
D-18500*	18.500	+.000 / -.005	18.500	19.500	0.500	19.159	+.010 / -.000	19.447	+.006 / -.000	0.499	+.004 / -.000	172.01
D-20000*	20.000	+.000 / -.005	20.000	21.000	0.500	20.659	+.010 / -.000	20.997	+.006 / -.000	0.499	+.004 / -.000	183.12
D-30000*	30.000	+.000 / -.005	30.000	31.000	0.500	30.659	+.010 / -.000	30.997	+.006 / -.000	0.499	+.004 / -.000	549.96

D - Rod Wipers

FPM 90A



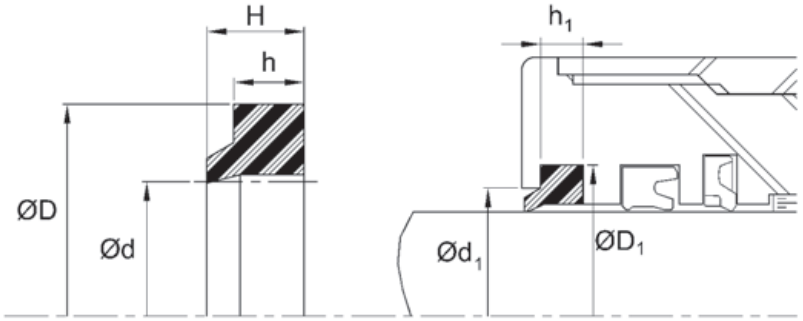
FPM: Temperature: -20/400F [-28/204C] Pressures: N/A

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	9.11
D-00750/V	0.750	+.000 / -.003	0.750	1.125	0.187	0.995	+.010 / -.000	1.122	+.006 / -.000	0.187	+.004 / -.000	9.18
D-01000/V	1.000	+.000 / -.003	1.000	1.375	0.187	1.245	+.010 / -.000	1.372	+.006 / -.000	0.187	+.004 / -.000	10.61
D-01125/V*	1.125	+.000 / -.003	1.125	1.500	0.187	1.370	+.010 / -.000	1.497	+.006 / -.000	0.187	+.004 / -.000	12.17
D-01250/V	1.250	+.000 / -.003	1.250	1.625	0.187	1.495	+.010 / -.000	1.622	+.006 / -.000	0.187	+.004 / -.000	13.95
D-01375/V	1.375	+.000 / -.003	1.375	1.750	0.187	1.620	+.010 / -.000	1.747	+.006 / -.000	0.187	+.004 / -.000	13.07
D-01500/V	1.500	+.000 / -.003	1.500	1.875	0.187	1.745	+.010 / -.000	1.872	+.006 / -.000	0.187	+.004 / -.000	14.67
D-01625/V*	1.625	+.000 / -.003	1.625	2.000	0.187	1.870	+.010 / -.000	1.997	+.006 / -.000	0.187	+.004 / -.000	14.73
D-01750/V	1.750	+.000 / -.003	1.750	2.125	0.187	1.995	+.010 / -.000	2.122	+.006 / -.000	0.187	+.004 / -.000	14.78
D-02000/V	2.000	+.000 / -.003	2.000	2.500	0.250	2.327	+.010 / -.000	2.497	+.006 / -.000	0.249	+.004 / -.000	18.42
D-02250/V	2.250	+.000 / -.003	2.250	2.750	0.250	2.577	+.010 / -.000	2.747	+.006 / -.000	0.249	+.004 / -.000	21.81
D-02500/V*	2.500	+.000 / -.003	2.500	3.000	0.250	2.827	+.010 / -.000	2.997	+.006 / -.000	0.249	+.004 / -.000	28.63
D-02750/V	2.750	+.000 / -.003	2.750	3.250	0.250	3.077	+.010 / -.000	3.247	+.006 / -.000	0.249	+.004 / -.000	30.30
D-03000/V	3.000	+.000 / -.004	3.000	3.500	0.250	3.327	+.010 / -.000	3.497	+.006 / -.000	0.249	+.004 / -.000	32.98
D-03250/V	3.250	+.000 / -.004	3.250	3.750	0.250	3.577	+.010 / -.000	3.747	+.006 / -.000	0.249	+.004 / -.000	30.54
D-03500/V	3.500	+.000 / -.004	3.500	4.000	0.250	3.827	+.010 / -.000	3.997	+.006 / -.000	0.249	+.004 / -.000	37.85
D-04000/V	4.000	+.000 / -.004	4.000	4.500	0.250	4.327	+.010 / -.000	4.497	+.006 / -.000	0.249	+.004 / -.000	55.95
D-04250/V	4.250	+.000 / -.004	4.250	4.750	0.250	4.577	+.010 / -.000	4.747	+.006 / -.000	0.249	+.004 / -.000	57.02
D-04500/V*	4.500	+.000 / -.004	4.500	5.250	0.375	4.993	+.010 / -.000	5.247	+.006 / -.000	0.374	+.004 / -.000	58.75
D-05000/V	5.000	+.000 / -.004	5.000	5.750	0.375	5.493	+.010 / -.000	5.747	+.006 / -.000	0.374	+.004 / -.000	70.46
D-05750/V*	5.750	+.000 / -.004	5.750	6.500	0.375	6.243	+.010 / -.000	6.497	+.006 / -.000	0.374	+.004 / -.000	63.49
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	86.37
D-07000/V*	7.000	+.000 / -.005	7.000	7.750	0.375	7.493	+.010 / -.000	7.747	+.006 / -.000	0.374	+.004 / -.000	90.35
D-08000/V	8.000	+.000 / -.005	8.000	8.750	0.375	8.493	+.010 / -.000	8.747	+.006 / -.000	0.374	+.004 / -.000	122.59
D-08500/V	8.500	+.000 / -.005	8.500	9.250	0.375	8.993	+.010 / -.000	9.247	+.006 / -.000	0.374	+.004 / -.000	123.86
D-10000/V*	10.000	+.000 / -.005	10.000	11.000	0.500	10.659	+.010 / -.000	10.997	+.006 / -.000	0.499	+.004 / -.000	135.10

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

D - Rod Wipers

P, 4651 = High Perf. Urethane
Temp.: -65/275F [-54/135C]
Pressure: N/A

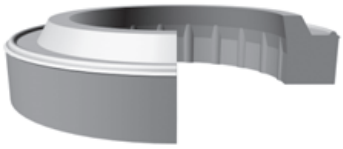


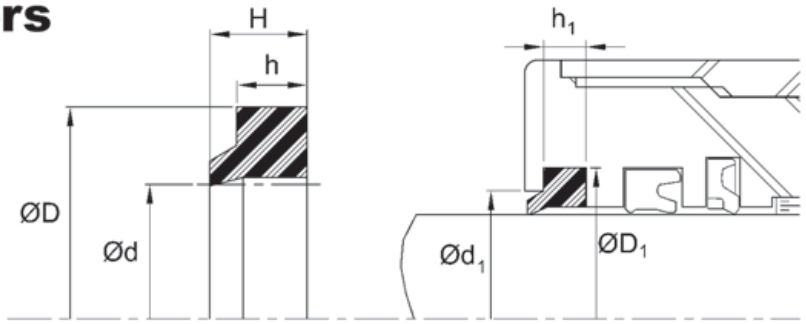
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-01250/P	1.250	+.000 / -.003	1.250	1.625	0.187	1.495	+.010 / -.000	1.622	+.006 / -.000	0.187	+.004 / -.000	4.04
D-01375/P	1.375	+.000 / -.003	1.375	1.750	0.187	1.620	+.010 / -.000	1.747	+.006 / -.000	0.187	+.004 / -.000	4.25
D-01500/P	1.500	+.000 / -.003	1.500	1.875	0.187	1.745	+.010 / -.000	1.872	+.006 / -.000	0.187	+.004 / -.000	4.54
D-01750/P	1.750	+.000 / -.003	1.750	2.125	0.187	1.995	+.010 / -.000	2.122	+.006 / -.000	0.187	+.004 / -.000	5.29
D-02000/P	2.000	+.000 / -.003	2.000	2.500	0.250	2.327	+.010 / -.000	2.497	+.006 / -.000	0.249	+.004 / -.000	5.54
D-02125/4651*	2.125	+.000 / -.003	2.125	2.625	0.250	2.452	+.010 / -.000	2.622	+.006 / -.000	0.249	+.004 / -.000	12.98
D-02250/P	2.250	+.000 / -.003	2.250	2.750	0.250	2.577	+.010 / -.000	2.747	+.006 / -.000	0.249	+.004 / -.000	12.54
D-02500/P	2.500	+.000 / -.003	2.500	3.000	0.250	2.827	+.010 / -.000	2.997	+.006 / -.000	0.249	+.004 / -.000	6.11
D-02750/P	2.750	+.000 / -.003	2.750	3.250	0.250	3.077	+.010 / -.000	3.247	+.006 / -.000	0.249	+.004 / -.000	6.44
D-03000/P	3.000	+.000 / -.004	3.000	3.500	0.250	3.327	+.010 / -.000	3.497	+.006 / -.000	0.249	+.004 / -.000	6.70
D-03500/P	3.500	+.000 / -.004	3.500	4.000	0.250	3.827	+.010 / -.000	3.997	+.006 / -.000	0.249	+.004 / -.000	9.92
D-04000/P	4.000	+.000 / -.004	4.000	4.500	0.250	4.327	+.010 / -.000	4.497	+.006 / -.000	0.249	+.004 / -.000	10.43
D-04500/P	4.500	+.000 / -.004	4.500	5.250	0.375	4.993	+.010 / -.000	5.247	+.006 / -.000	0.374	+.004 / -.000	14.10
D-05000/P	5.000	+.000 / -.004	5.000	5.750	0.375	5.493	+.010 / -.000	5.747	+.006 / -.000	0.374	+.004 / -.000	20.29
D-05500/P	5.500	+.000 / -.004	5.500	6.250	0.375	5.993	+.010 / -.000	6.247	+.006 / -.000	0.374	+.004 / -.000	24.52
D-05750/P	5.750	+.000 / -.004	5.750	6.500	0.375	6.243	+.010 / -.000	6.497	+.006 / -.000	0.374	+.004 / -.000	51.72
D-06000/P	6.000	+.000 / -.004	6.000	6.750	0.375	6.493	+.010 / -.000	6.747	+.006 / -.000	0.374	+.004 / -.000	26.89
D-07000/P	7.000	+.000 / -.005	7.000	7.750	0.375	7.493	+.010 / -.000	7.747	+.006 / -.000	0.374	+.004 / -.000	41.74
D-08000/4651	8.000	+.000 / -.005	8.000	8.750	0.375	8.493	+.010 / -.000	8.747	+.006 / -.000	0.374	+.004 / -.000	82.04
D-08500/4651*	8.500	+.000 / -.005	8.500	9.250	0.375	8.993	+.010 / -.000	9.247	+.006 / -.000	0.374	+.004 / -.000	90.77
D-11000/4651*	11.000	+.000 / -.005	11.000	12.000	0.500	11.659	+.010 / -.000	11.997	+.006 / -.000	0.499	+.004 / -.000	140.66

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

D/520 - Rod Wipers

Hythane AU 93A





Temperature: -50/230F [-45/110C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	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	1.49
D-00500/520	0.500	+.000 / -.002	0.500	0.750	0.125	0.665	+.005 / -.005	0.750	+.003 / -.003	0.125	+.004 / -.000	1.51
D-00562/520*	0.562	+.000 / -.002	0.562	0.812	0.125	0.730	+.005 / -.005	0.812	+.003 / -.003	0.125	+.004 / -.000	1.44
D-00625/520	0.625	+.000 / -.002	0.625	0.875	0.125	0.790	+.005 / -.005	0.875	+.003 / -.003	0.125	+.004 / -.000	1.51
D-00750/520	0.750	+.000 / -.003	0.750	1.125	0.187	1.000	+.005 / -.005	1.125	+.003 / -.003	0.187	+.004 / -.000	1.72
D-00875/520	0.875	+.000 / -.003	0.875	1.250	0.187	1.125	+.005 / -.005	1.250	+.003 / -.003	0.187	+.004 / -.000	1.56
D-01000/520	1.000	+.000 / -.003	1.000	1.375	0.187	1.250	+.005 / -.005	1.375	+.003 / -.003	0.187	+.004 / -.000	2.87
D-01125/520	1.125	+.000 / -.003	1.125	1.500	0.187	1.375	+.005 / -.005	1.500	+.003 / -.003	0.187	+.004 / -.000	3.11
D-01187/520	1.187	+.000 / -.003	1.187	1.562	0.187	1.437	+.005 / -.005	1.562	+.003 / -.003	0.187	+.004 / -.000	1.74
D-01250/520	1.250	+.000 / -.003	1.250	1.625	0.187	1.500	+.005 / -.005	1.625	+.003 / -.003	0.187	+.004 / -.000	2.70
D-01375/520	1.375	+.000 / -.003	1.375	1.750	0.187	1.625	+.005 / -.005	1.750	+.003 / -.003	0.187	+.004 / -.000	3.30
D-01500/520	1.500	+.000 / -.003	1.500	1.875	0.187	1.750	+.005 / -.005	1.875	+.003 / -.003	0.187	+.004 / -.000	3.48
D-01625/520	1.625	+.000 / -.003	1.625	2.000	0.187	1.875	+.005 / -.005	2.000	+.003 / -.003	0.187	+.004 / -.000	2.73
D-01750/520	1.750	+.000 / -.003	1.750	2.125	0.187	2.000	+.005 / -.005	2.125	+.003 / -.003	0.187	+.004 / -.000	4.07
D-01875/520*	1.875	+.000 / -.003	1.875	2.250	0.187	2.125	+.005 / -.005	2.250	+.003 / -.003	0.187	+.004 / -.000	4.21
D-02000/520	2.000	+.000 / -.003	2.000	2.500	0.250	2.332	+.005 / -.005	2.500	+.003 / -.003	0.250	+.004 / -.000	4.26
D-02250/520	2.250	+.000 / -.003	2.250	2.750	0.250	2.582	+.005 / -.005	2.750	+.003 / -.003	0.250	+.004 / -.000	4.49
D-02375/520*	2.375	+.000 / -.003	2.375	2.875	0.250	2.707	+.005 / -.005	2.875	+.003 / -.003	0.250	+.004 / -.000	3.18
D-02500/520	2.500	+.000 / -.003	2.500	3.000	0.250	2.832	+.005 / -.005	3.000	+.003 / -.003	0.250	+.004 / -.000	4.99
D-02750/520	2.750	+.000 / -.003	2.750	3.250	0.250	3.082	+.005 / -.005	3.250	+.003 / -.003	0.250	+.004 / -.000	3.76
D-03000/520	3.000	+.000 / -.004	3.000	3.500	0.250	3.332	+.005 / -.005	3.500	+.003 / -.003	0.250	+.004 / -.000	5.40
D-03250/520	3.250	+.000 / -.004	3.250	3.750	0.250	3.582	+.005 / -.005	3.750	+.003 / -.003	0.250	+.004 / -.000	5.97
D-03500/520	3.500	+.000 / -.004	3.500	4.000	0.250	3.832	+.005 / -.005	4.000	+.003 / -.003	0.250	+.004 / -.000	6.14
D-03750/520	3.750	+.000 / -.004	3.750	4.250	0.250	4.082	+.005 / -.005	4.250	+.003 / -.003	0.250	+.004 / -.000	6.13
D-03875/520	3.875	+.000 / -.004	3.875	4.375	0.250	4.207	+.005 / -.005	4.375	+.003 / -.003	0.250	+.004 / -.000	6.17
D-04000/520	4.000	+.000 / -.004	4.000	4.500	0.250	4.332	+.005 / -.005	4.500	+.003 / -.003	0.250	+.004 / -.000	8.02
D-04250/520	4.250	+.000 / -.004	4.250	4.750	0.250	4.582	+.005 / -.005	4.750	+.003 / -.003	0.250	+.004 / -.000	7.24
D-04500/520	4.500	+.000 / -.004	4.500	5.250	0.375	4.998	+.005 / -.005	5.250	+.003 / -.003	0.375	+.004 / -.000	8.96
D-04501/520	4.500	+.000 / -.004	4.500	5.000	0.250	4.832	+.005 / -.005	5.000	+.003 / -.003	0.250	+.004 / -.000	8.98
D-04750/520	4.750	+.000 / -.004	4.750	5.500	0.375	5.248	+.005 / -.005	5.500	+.003 / -.003	0.375	+.004 / -.000	12.83
D-05000/520	5.000	+.000 / -.004	5.000	5.750	0.375	5.498	+.005 / -.005	5.750	+.003 / -.003	0.375	+.004 / -.000	13.51
D-05001/520	5.000	+.000 / -.004	5.000	5.500	0.250	5.327	+.005 / -.005	5.500	+.003 / -.003	0.250	+.004 / -.000	14.07
D-05250/520	5.250	+.000 / -.004	5.250	6.000	0.375	5.748	+.005 / -.005	6.000	+.003 / -.003	0.375	+.004 / -.000	15.45
D-05500/520	5.500	+.000 / -.004	5.500	6.250	0.375	5.998	+.005 / -.005	6.250	+.003 / -.003	0.375	+.004 / -.000	15.56
D-05750/520*	5.750	+.000 / -.004	5.750	6.500	0.375	6.248	+.005 / -.005	6.500	+.003 / -.003	0.375	+.004 / -.000	17.75
D-06000/520	6.000	+.000 / -.004	6.000	6.750	0.375	6.498	+.005 / -.005	6.750	+.003 / -.003	0.375	+.004 / -.000	18.32
D-06001/520	6.000	+.000 / -.004	6.000	6.500	0.250	6.332	+.005 / -.005	6.500	+.003 / -.003	0.250	+.004 / -.000	18.65
D-07000/520	7.000	+.000 / -.005	7.000	7.750	0.375	7.498	+.005 / -.005	7.750	+.003 / -.003	0.375	+.004 / -.000	22.16

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

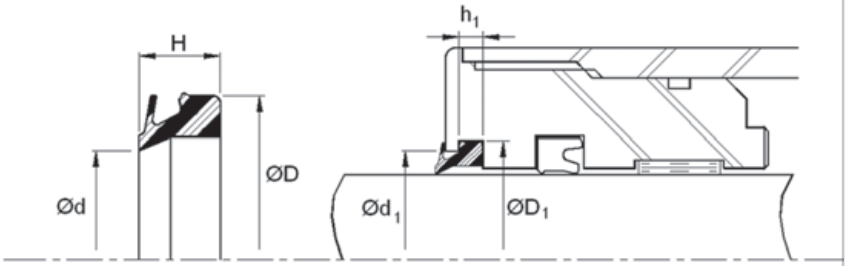
D/520 SERIES - HYTHANE AU 93A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-07001/520*	7.000	+.000 / -.005	7.000	7.500	0.250	7.332	+.005 / -.005	7.500	+.003 / -.003	0.250	+.004 / -.000	21.12
D-08000/520	8.000	+.000 / -.005	8.000	8.750	0.375	8.498	+.005 / -.005	8.750	+.003 / -.003	0.375	+.004 / -.000	26.84
D-08121/520	8.125	+.000 / -.005	8.125	8.625	0.250	8.457	+.005 / -.005	8.625	+.003 / -.003	0.250	+.004 / -.000	25.56
D-08500/520*	8.500	+.000 / -.005	8.500	9.250	0.375	8.998	+.005 / -.005	9.250	+.003 / -.003	0.375	+.004 / -.000	27.14
D-09375/520*	9.375	+.000 / -.005	9.375	9.875	0.250	9.707	+.005 / -.005	9.875	+.003 / -.003	0.250	+.004 / -.000	34.20

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

D/820 - Rod Wipers

Hythane AU 93A

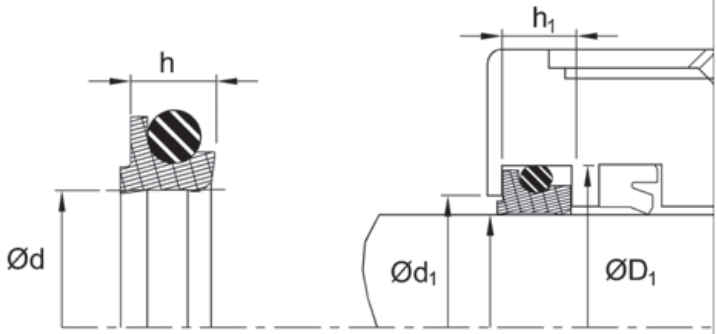


Temperature: -50/230F [-45/110C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	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	6.95
D-01250/820*	1.250	+.000 / -.003	1.250	1.625	0.187	1.500	+.005 / -.005	1.625	+.003 / -.003	0.187	+.004 / -.000	7.06
D-01375/820*	1.375	+.000 / -.003	1.375	1.750	0.187	1.625	+.005 / -.005	1.750	+.003 / -.003	0.187	+.004 / -.000	7.22
D-01500/820*	1.500	+.000 / -.003	1.500	1.875	0.187	1.750	+.005 / -.005	1.875	+.003 / -.003	0.187	+.004 / -.000	7.45
D-01750/820*	1.750	+.000 / -.003	1.750	2.125	0.187	2.000	+.005 / -.005	2.125	+.003 / -.003	0.187	+.004 / -.000	7.71
D-02000/820*	2.000	+.000 / -.003	2.000	2.500	0.250	2.332	+.005 / -.005	2.500	+.003 / -.003	0.250	+.004 / -.000	8.76
D-02250/820*	2.250	+.000 / -.003	2.250	2.750	0.250	2.582	+.005 / -.005	2.750	+.003 / -.003	0.250	+.004 / -.000	9.14
D-02500/820*	2.500	+.000 / -.003	2.500	3.000	0.250	2.832	+.005 / -.005	3.000	+.003 / -.003	0.250	+.004 / -.000	9.58
D-03000/820*	3.000	+.000 / -.004	3.000	3.500	0.250	3.332	+.005 / -.005	3.500	+.003 / -.003	0.250	+.004 / -.000	10.17
D-03500/820	3.500	+.000 / -.004	3.500	4.000	0.250	3.832	+.005 / -.005	4.000	+.003 / -.003	0.250	+.004 / -.000	10.77
D-03625/820*	3.625	+.000 / -.004	3.625	4.000	0.187	3.875	+.005 / -.005	4.000	+.003 / -.003	0.187	+.004 / -.000	19.59
D-04000/820*	4.000	+.000 / -.004	4.000	4.500	0.250	4.332	+.005 / -.005	4.500	+.003 / -.003	0.250	+.004 / -.000	11.76
D-04500/820*	4.500	+.000 / -.004	4.500	5.250	0.375	4.998	+.005 / -.005	5.250	+.003 / -.003	0.375	+.004 / -.000	13.23
D-05000/820*	5.000	+.000 / -.004	5.000	5.750	0.375	5.498	+.005 / -.005	5.750	+.003 / -.003	0.375	+.004 / -.000	16.31
D-06000/820*	6.000	+.000 / -.004	6.000	6.750	0.375	6.498	+.005 / -.005	6.750	+.003 / -.003	0.375	+.004 / -.000	19.70

DX - Rod Wipers

Lubrithane/Nitrile



Temperature: -40/250F [-40/120C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	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	11.08
DX-01750*	1.750	+.000 / -.003	1.750	2.125	0.187	1.995	+.010 / -.000	2.122	+.006 / -.000	0.187	+.004 / -.000	12.62
DX-02000	2.000	+.000 / -.003	2.000	2.500	0.250	2.327	+.010 / -.000	2.497	+.006 / -.000	0.249	+.004 / -.000	14.21
DX-02500	2.500	+.000 / -.003	2.500	3.000	0.250	2.827	+.010 / -.000	2.997	+.006 / -.000	0.249	+.004 / -.000	16.33
DX-02750*	2.750	+.000 / -.003	2.750	3.250	0.250	3.077	+.010 / -.000	3.247	+.006 / -.000	0.249	+.004 / -.000	20.02

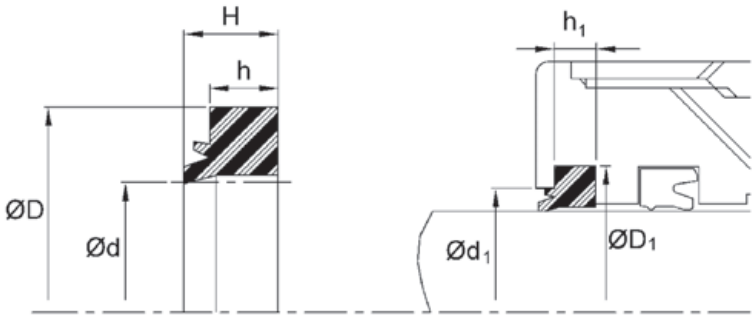
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

DX SERIES - LUBRITHANE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
DX-03000	3.000	+.000 / -.004	3.000	3.500	0.250	3.327	+.010 / -.000	3.497	+.006 / -.000	0.249	+.004 / -.000	18.77
DX-03500*	3.500	+.000 / -.004	3.500	4.000	0.250	3.827	+.010 / -.000	3.997	+.006 / -.000	0.249	+.004 / -.000	28.32
DX-03750*	3.750	+.000 / -.004	3.750	4.250	0.250	4.077	+.010 / -.000	4.247	+.006 / -.000	0.249	+.004 / -.000	28.66
DX-04000*	4.000	+.000 / -.004	4.000	4.500	0.250	4.327	+.010 / -.000	4.497	+.006 / -.000	0.249	+.004 / -.000	29.27
DX-04500*	4.500	+.000 / -.004	4.500	5.250	0.375	4.993	+.010 / -.000	5.247	+.006 / -.000	0.374	+.004 / -.000	41.92
DX-06000*	6.000	+.000 / -.004	6.000	6.750	0.375	6.493	+.010 / -.000	6.747	+.006 / -.000	0.374	+.004 / -.000	65.07
DX-08500*	8.500	+.000 / -.004	8.500	9.250	0.375	8.993	+.010 / -.000	9.247	+.006 / -.000	0.374	+.004 / -.000	170.16
DX-09000	9.000	+.000 / -.004	9.000	9.750	0.375	9.493	+.010 / -.000	9.747	+.006 / -.000	0.374	+.004 / -.000	176.91

D/DL - Rod Wipers

Hytrel 92A



Temperature: -40/300F [-40/189C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-00500DL*	0.500	+.000 / -.002	0.500	0.750	0.125	0.660	+.010 / -.000	0.747	+.006 / -.000	0.124	+.004 / -.000	3.69
D-00562DL*	0.562	+.000 / -.002	0.562	0.812	0.125	0.725	+.010 / -.000	0.810	+.006 / -.000	0.124	+.004 / -.000	3.64
D-00687DL*	0.687	+.000 / -.002	0.687	0.937	0.125	0.850	+.010 / -.000	0.935	+.006 / -.000	0.124	+.004 / -.000	3.64
D-00750DL*	0.750	+.000 / -.003	0.750	1.125	0.187	0.995	+.010 / -.000	1.122	+.006 / -.000	0.187	+.004 / -.000	3.96
D-00812DL*	0.812	+.000 / -.003	0.812	1.187	0.187	1.060	+.010 / -.000	1.185	+.006 / -.000	0.187	+.004 / -.000	3.97
D-00875DL*	0.875	+.000 / -.003	0.875	1.250	0.187	1.120	+.010 / -.000	1.247	+.006 / -.000	0.187	+.004 / -.000	3.99
D-00937DL*	0.937	+.000 / -.003	0.937	1.312	0.187	1.185	+.010 / -.000	1.310	+.006 / -.000	0.187	+.004 / -.000	4.00
D-01000DL	1.000	+.000 / -.003	1.000	1.375	0.187	1.245	+.010 / -.000	1.372	+.006 / -.000	0.187	+.004 / -.000	4.03
D-01062DL*	1.062	+.000 / -.003	1.062	1.437	0.187	1.310	+.010 / -.000	1.435	+.006 / -.000	0.187	+.004 / -.000	4.04
D-01125DL*	1.125	+.000 / -.003	1.125	1.500	0.187	1.370	+.010 / -.000	1.497	+.006 / -.000	0.187	+.004 / -.000	4.06
D-01187DL*	1.187	+.000 / -.003	1.187	1.562	0.187	1.435	+.010 / -.000	1.560	+.006 / -.000	0.187	+.004 / -.000	4.09
D-01250DL	1.250	+.000 / -.003	1.250	1.625	0.187	1.495	+.010 / -.000	1.622	+.006 / -.000	0.187	+.004 / -.000	4.10
D-01312DL*	1.312	+.000 / -.003	1.312	1.687	0.187	1.560	+.010 / -.000	1.685	+.006 / -.000	0.187	+.004 / -.000	4.12
D-01375DL	1.375	+.000 / -.003	1.375	1.750	0.187	1.620	+.010 / -.000	1.747	+.006 / -.000	0.187	+.004 / -.000	4.14
D-01437DL*	1.437	+.000 / -.003	1.437	1.812	0.187	1.685	+.010 / -.000	1.810	+.006 / -.000	0.187	+.004 / -.000	4.16
D-01500DL	1.500	+.000 / -.003	1.500	1.875	0.187	1.745	+.010 / -.000	1.872	+.006 / -.000	0.187	+.004 / -.000	4.19
D-01625DL	1.625	+.000 / -.003	1.625	2.000	0.187	1.870	+.010 / -.000	1.997	+.006 / -.000	0.187	+.004 / -.000	4.22
D-01750DL	1.750	+.000 / -.003	1.750	2.125	0.187	1.995	+.010 / -.000	2.122	+.006 / -.000	0.187	+.004 / -.000	4.26
D-01875DL*	1.875	+.000 / -.003	1.875	2.250	0.187	2.120	+.010 / -.000	2.247	+.006 / -.000	0.187	+.004 / -.000	4.92
D-02000DL	2.000	+.000 / -.003	2.000	2.500	0.250	2.327	+.010 / -.000	2.497	+.006 / -.000	0.249	+.004 / -.000	5.06
D-02125DL*	2.125	+.000 / -.003	2.125	2.625	0.250	2.452	+.010 / -.000	2.622	+.006 / -.000	0.249	+.004 / -.000	5.13
D-02250DL	2.250	+.000 / -.003	2.250	2.750	0.250	2.577	+.010 / -.000	2.747	+.006 / -.000	0.249	+.004 / -.000	5.20

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

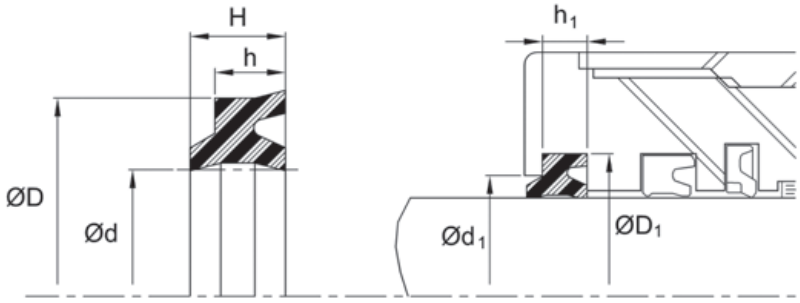
D/DL SERIES - HYTREL 92A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
D-02375DL*	2.375	+.000 / -.003	2.375	2.875	0.250	2.702	+.010 / -.000	2.872	+.006 / -.000	0.249	+.004 / -.000	5.27
D-02500DL	2.500	+.000 / -.003	2.500	3.000	0.250	2.827	+.010 / -.000	2.997	+.006 / -.000	0.249	+.004 / -.000	5.36
D-02625DL*	2.625	+.000 / -.003	2.625	3.125	0.250	2.952	+.010 / -.000	3.122	+.006 / -.000	0.249	+.004 / -.000	5.43
D-02750DL	2.750	+.000 / -.003	2.750	3.250	0.250	3.077	+.010 / -.000	3.247	+.006 / -.000	0.249	+.004 / -.000	5.50
D-02875DL*	2.875	+.000 / -.003	2.875	3.375	0.250	3.202	+.010 / -.000	3.372	+.006 / -.000	0.249	+.004 / -.000	5.57
D-03000DL*	3.000	+.000 / -.004	3.000	3.500	0.250	3.327	+.010 / -.000	3.497	+.006 / -.000	0.249	+.004 / -.000	5.63
D-03125DL*	3.125	+.000 / -.004	3.125	3.625	0.250	3.452	+.010 / -.000	3.622	+.006 / -.000	0.249	+.004 / -.000	5.72
D-03250DL*	3.250	+.000 / -.004	3.250	3.750	0.250	3.577	+.010 / -.000	3.747	+.006 / -.000	0.249	+.004 / -.000	5.79
D-03375DL*	3.375	+.000 / -.004	3.375	3.875	0.250	3.702	+.010 / -.000	3.872	+.006 / -.000	0.249	+.004 / -.000	5.86
D-03500DL	3.500	+.000 / -.004	3.500	4.000	0.250	3.827	+.010 / -.000	3.997	+.006 / -.000	0.249	+.004 / -.000	5.93
D-03625DL*	3.625	+.000 / -.004	3.625	4.125	0.250	3.952	+.010 / -.000	4.122	+.006 / -.000	0.249	+.004 / -.000	6.00
D-03750DL	3.750	+.000 / -.004	3.750	4.250	0.250	4.077	+.010 / -.000	4.247	+.006 / -.000	0.249	+.004 / -.000	6.09
D-03875DL*	3.875	+.000 / -.004	3.875	4.375	0.250	4.202	+.010 / -.000	4.372	+.006 / -.000	0.249	+.004 / -.000	6.15
D-04000DL*	4.000	+.000 / -.004	4.000	4.500	0.250	4.327	+.010 / -.000	4.497	+.006 / -.000	0.249	+.004 / -.000	6.22
D-04125DL*	4.125	+.000 / -.004	4.125	4.625	0.250	4.452	+.010 / -.000	4.622	+.006 / -.000	0.249	+.004 / -.000	6.30
D-04250DL*	4.250	+.000 / -.004	4.250	4.750	0.250	4.577	+.010 / -.000	4.747	+.006 / -.000	0.249	+.004 / -.000	6.37
D-04500DL*	4.500	+.000 / -.004	4.500	5.250	0.375	4.993	+.010 / -.000	5.247	+.006 / -.000	0.374	+.004 / -.000	10.93
D-04625DL*	4.625	+.000 / -.004	4.625	5.375	0.375	5.118	+.010 / -.000	5.372	+.006 / -.000	0.374	+.004 / -.000	11.09
D-04750DL*	4.750	+.000 / -.004	4.750	5.500	0.375	5.243	+.010 / -.000	5.497	+.006 / -.000	0.374	+.004 / -.000	11.28
D-04875DL*	4.875	+.000 / -.004	4.875	5.625	0.375	5.368	+.010 / -.000	5.622	+.006 / -.000	0.374	+.004 / -.000	11.43
D-05000DL*	5.000	+.000 / -.004	5.000	5.750	0.375	5.493	+.010 / -.000	5.747	+.006 / -.000	0.374	+.004 / -.000	13.42
D-05125DL*	5.125	+.000 / -.004	5.125	5.875	0.375	5.618	+.010 / -.000	5.872	+.006 / -.000	0.374	+.004 / -.000	13.59
D-05250DL*	5.250	+.000 / -.004	5.250	6.000	0.375	5.743	+.010 / -.000	5.997	+.006 / -.000	0.374	+.004 / -.000	13.78
D-05375DL*	5.375	+.000 / -.004	5.375	6.125	0.375	5.868	+.010 / -.000	6.122	+.006 / -.000	0.374	+.004 / -.000	13.94
D-05500DL*	5.500	+.000 / -.004	5.500	6.250	0.375	5.993	+.010 / -.000	6.247	+.006 / -.000	0.374	+.004 / -.000	14.12
D-05625DL*	5.625	+.000 / -.004	5.625	6.375	0.375	6.118	+.010 / -.000	6.372	+.006 / -.000	0.374	+.004 / -.000	14.28
D-05750DL*	5.750	+.000 / -.004	5.750	6.500	0.375	6.243	+.010 / -.000	6.497	+.006 / -.000	0.374	+.004 / -.000	14.46
D-05875DL*	5.875	+.000 / -.004	5.875	6.625	0.375	6.368	+.010 / -.000	6.622	+.006 / -.000	0.374	+.004 / -.000	14.64
D-06000DL*	6.000	+.000 / -.004	6.000	6.750	0.375	6.493	+.010 / -.000	6.747	+.006 / -.000	0.374	+.004 / -.000	14.82
D-06250DL*	6.250	+.000 / -.004	6.250	7.000	0.375	6.743	+.010 / -.000	6.997	+.006 / -.000	0.374	+.004 / -.000	15.16
D-06500DL*	6.500	+.000 / -.004	6.500	7.250	0.375	6.993	+.010 / -.000	7.247	+.006 / -.000	0.374	+.004 / -.000	15.51
D-06750DL*	6.750	+.000 / -.004	6.750	7.500	0.375	7.243	+.010 / -.000	7.497	+.006 / -.000	0.374	+.004 / -.000	15.86
D-07000DL*	7.000	+.000 / -.005	7.000	7.750	0.375	7.493	+.010 / -.000	7.747	+.006 / -.000	0.374	+.004 / -.000	16.22

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

H - Rod Wipers

Polyurethane AU 90A



Temperature: -40/225F [-40/107C] **Pressure: N/A**

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	2.86
H-00312*	0.312	+.000 / -.001	0.312	0.625	0.194	0.432	+.002 / -.000	0.615	+.002 / -.000	0.203	+.005 / -.000	2.86
H-00375*	0.375	+.000 / -.001	0.375	0.687	0.194	0.495	+.002 / -.000	0.677	+.002 / -.000	0.203	+.005 / -.000	2.86
H-00500	0.500	+.000 / -.001	0.500	0.812	0.194	0.620	+.002 / -.000	0.802	+.002 / -.000	0.203	+.005 / -.000	2.86
H-00625	0.625	+.000 / -.001	0.625	0.937	0.194	0.745	+.002 / -.000	0.927	+.002 / -.000	0.203	+.005 / -.000	3.18
H-00626	0.625	+.000 / -.001	0.625	1.000	0.212	0.760	+.002 / -.000	0.990	+.002 / -.000	0.218	+.005 / -.000	13.09
H-00750	0.750	+.000 / -.001	0.750	1.062	0.194	0.870	+.002 / -.000	1.052	+.002 / -.000	0.203	+.005 / -.000	3.18
H-00875	0.875	+.000 / -.001	0.875	1.250	0.212	1.010	+.002 / -.000	1.240	+.002 / -.000	0.218	+.005 / -.000	3.26
H-00937*	0.937	+.000 / -.001	0.937	1.312	0.212	1.072	+.003 / -.000	1.302	+.003 / -.000	0.218	+.005 / -.000	3.29
H-01000	1.000	+.000 / -.001	1.000	1.375	0.212	1.135	+.003 / -.000	1.365	+.003 / -.000	0.218	+.005 / -.000	3.32
H-01125	1.125	+.000 / -.001	1.125	1.500	0.212	1.260	+.003 / -.000	1.490	+.003 / -.000	0.218	+.005 / -.000	3.45
H-01250	1.250	+.000 / -.001	1.250	1.625	0.212	1.385	+.003 / -.000	1.615	+.003 / -.000	0.218	+.005 / -.000	3.71
H-01375	1.375	+.000 / -.001	1.375	1.750	0.212	1.510	+.003 / -.000	1.740	+.003 / -.000	0.218	+.005 / -.000	4.00
H-01500	1.500	+.000 / -.001	1.500	1.875	0.212	1.635	+.003 / -.000	1.865	+.003 / -.000	0.218	+.005 / -.000	4.23
H-01625	1.625	+.000 / -.001	1.625	2.000	0.212	1.760	+.003 / -.000	1.990	+.003 / -.000	0.218	+.005 / -.000	4.35
H-01750	1.750	+.000 / -.001	1.750	2.125	0.212	1.885	+.003 / -.000	2.115	+.003 / -.000	0.218	+.005 / -.000	4.52
H-01875	1.875	+.000 / -.001	1.875	2.250	0.212	2.010	+.003 / -.000	2.240	+.003 / -.000	0.218	+.005 / -.000	2.70
H-02000	2.000	+.000 / -.001	2.000	2.375	0.212	2.135	+.003 / -.000	2.365	+.003 / -.000	0.218	+.005 / -.000	5.15
H-02125*	2.125	+.000 / -.001	2.125	2.500	0.212	2.260	+.003 / -.000	2.490	+.003 / -.000	0.218	+.005 / -.000	5.24
H-02187*	2.187	+.000 / -.001	2.187	2.687	0.275	2.323	+.003 / -.000	2.683	+.003 / -.000	0.281	+.005 / -.000	5.24
H-02250	2.250	+.000 / -.001	2.250	2.750	0.275	2.385	+.003 / -.000	2.745	+.003 / -.000	0.281	+.005 / -.000	5.32
H-02375	2.375	+.000 / -.001	2.375	2.875	0.275	2.510	+.003 / -.000	2.870	+.003 / -.000	0.281	+.005 / -.000	4.95
H-02500	2.500	+.000 / -.001	2.500	3.000	0.275	2.635	+.003 / -.000	2.995	+.003 / -.000	0.281	+.005 / -.000	5.71
H-02625	2.625	+.000 / -.001	2.625	3.125	0.275	2.760	+.003 / -.000	3.120	+.003 / -.000	0.281	+.005 / -.000	6.07
H-02750	2.750	+.000 / -.001	2.750	3.250	0.275	2.885	+.003 / -.000	3.245	+.003 / -.000	0.281	+.005 / -.000	6.52
H-03000	3.000	+.000 / -.002	3.000	3.500	0.275	3.135	+.003 / -.000	3.495	+.003 / -.000	0.281	+.005 / -.000	7.32
H-03125	3.125	+.000 / -.002	3.125	3.625	0.275	3.260	+.003 / -.000	3.620	+.003 / -.000	0.281	+.005 / -.000	7.46
H-03250	3.250	+.000 / -.002	3.250	3.750	0.275	3.385	+.003 / -.000	3.745	+.003 / -.000	0.281	+.005 / -.000	8.26
H-03500	3.500	+.000 / -.002	3.500	4.000	0.275	3.635	+.003 / -.000	3.995	+.003 / -.000	0.281	+.005 / -.000	8.60
H-03625	3.625	+.000 / -.002	3.625	4.125	0.275	3.760	+.003 / -.000	4.120	+.003 / -.000	0.281	+.005 / -.000	8.95
H-03750	3.750	+.000 / -.002	3.750	4.250	0.275	3.885	+.003 / -.000	4.245	+.003 / -.000	0.281	+.005 / -.000	17.76
H-03875	3.875	+.000 / -.002	3.875	4.375	0.275	4.010	+.003 / -.000	4.370	+.003 / -.000	0.281	+.005 / -.000	9.95
H-04000	4.000	+.000 / -.002	4.000	4.500	0.275	4.135	+.003 / -.000	4.495	+.003 / -.000	0.281	+.005 / -.000	9.61
H-04250	4.250	+.000 / -.002	4.250	4.750	0.275	4.385	+.003 / -.000	4.745	+.003 / -.000	0.281	+.005 / -.000	14.84
H-04500	4.500	+.000 / -.002	4.500	5.000	0.275	4.635	+.003 / -.000	4.995	+.003 / -.000	0.281	+.005 / -.000	10.64
H-04750	4.750	+.000 / -.002	4.750	5.250	0.275	4.885	+.003 / -.000	5.245	+.003 / -.000	0.281	+.005 / -.000	25.24
H-05000	5.000	+.000 / -.002	5.000	5.500	0.275	5.135	+.003 / -.000	5.495	+.003 / -.000	0.281	+.005 / -.000	12.60
H-05125	5.125	+.000 / -.002	5.125	5.625	0.275	5.260	+.003 / -.000	5.620	+.003 / -.000	0.281	+.005 / -.000	14.06

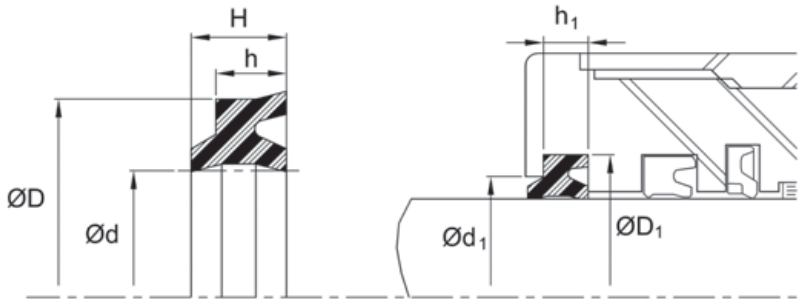
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

H SERIES - AU 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
H-05250	5.250	+.000 / -.002	5.250	5.750	0.275	5.385	+.003 / -.000	5.745	+.003 / -.000	0.281	+.005 / -.000	13.98
H-05500	5.500	+.000 / -.002	5.500	6.000	0.275	5.635	+.003 / -.000	5.995	+.003 / -.000	0.281	+.005 / -.000	17.50
H-05750	5.750	+.000 / -.002	5.750	6.250	0.275	5.885	+.003 / -.000	6.245	+.003 / -.000	0.281	+.005 / -.000	18.16
H-06000	6.000	+.000 / -.002	6.000	6.500	0.275	6.135	+.003 / -.000	6.495	+.003 / -.000	0.281	+.005 / -.000	15.64
H-06500	6.500	+.000 / -.002	6.500	7.000	0.275	6.635	+.003 / -.000	6.995	+.003 / -.000	0.281	+.005 / -.000	19.27
H-07000	7.000	+.000 / -.002	7.000	7.500	0.275	7.135	+.003 / -.000	7.495	+.003 / -.000	0.281	+.005 / -.000	30.12
H-07500*	7.500	+.000 / -.002	7.500	8.000	0.275	7.635	+.003 / -.000	7.995	+.003 / -.000	0.281	+.005 / -.000	22.87
H-08000	8.000	+.000 / -.002	8.000	8.500	0.275	8.135	+.003 / -.000	8.495	+.003 / -.000	0.281	+.005 / -.000	39.54
H-08500*	8.500	+.000 / -.002	8.500	9.000	0.275	8.635	+.003 / -.000	8.995	+.003 / -.000	0.281	+.005 / -.000	23.14
H-10000	10.000	+.000 / -.002	10.000	10.500	0.275	10.135	+.003 / -.000	10.495	+.003 / -.000	0.281	+.005 / -.000	47.41

H - Rod Wipers

Nitrile 80-90A



Temperature: -40/225F [-40/107C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	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	3.04
H-00312/N*	0.312	+.000 / -.001	0.312	0.625	0.194	0.432	+.002 / -.000	0.615	+.002 / -.000	0.203	+.005 / -.000	3.04
H-00375/N	0.375	+.000 / -.001	0.375	0.687	0.194	0.495	+.002 / -.000	0.677	+.002 / -.000	0.203	+.005 / -.000	3.04
H-00437/N*	0.437	+.000 / -.001	0.437	0.750	0.194	0.557	+.002 / -.000	0.740	+.002 / -.000	0.203	+.005 / -.000	3.04
H-00500/N	0.500	+.000 / -.001	0.500	0.812	0.194	0.620	+.002 / -.000	0.802	+.002 / -.000	0.203	+.005 / -.000	2.66
H-00562/N	0.562	+.000 / -.001	0.562	0.875	0.194	0.682	+.002 / -.000	0.865	+.002 / -.000	0.203	+.005 / -.000	3.12
H-00625/N	0.625	+.000 / -.001	0.625	0.937	0.194	0.745	+.002 / -.000	0.927	+.002 / -.000	0.203	+.005 / -.000	3.18
H-00625-1/N*	0.625	+.000 / -.001	0.625	1.000	0.203	0.760	+.002 / -.000	0.990	+.002 / -.000	0.218	+.005 / -.000	3.19
H-00687/N	0.687	+.000 / -.001	0.687	1.000	0.194	0.808	+.002 / -.000	0.990	+.002 / -.000	0.203	+.005 / -.000	3.19
H-00750/N	0.750	+.000 / -.001	0.750	1.062	0.194	0.870	+.002 / -.000	1.052	+.002 / -.000	0.203	+.005 / -.000	3.18
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	3.26
H-00875/N	0.875	+.000 / -.001	0.875	1.250	0.212	1.010	+.002 / -.000	1.240	+.002 / -.000	0.218	+.005 / -.000	3.26
H-00937/N*	0.937	+.000 / -.001	0.937	1.312	0.212	1.072	+.003 / -.000	1.302	+.003 / -.000	0.218	+.005 / -.000	3.39
H-01000/N	1.000	+.000 / -.001	1.000	1.375	0.212	1.135	+.003 / -.000	1.365	+.003 / -.000	0.218	+.005 / -.000	3.32
H-01062/N*	1.062	+.000 / -.001	1.062	1.437	0.212	1.197	+.003 / -.000	1.427	+.003 / -.000	0.218	+.005 / -.000	3.43
H-01125/N	1.125	+.000 / -.001	1.125	1.500	0.212	1.260	+.003 / -.000	1.490	+.003 / -.000	0.218	+.005 / -.000	3.56
H-01187/N	1.187	+.000 / -.001	1.187	1.562	0.212	1.322	+.003 / -.000	1.552	+.003 / -.000	0.218	+.005 / -.000	3.67
H-01250/N	1.250	+.000 / -.001	1.250	1.625	0.212	1.385	+.003 / -.000	1.615	+.003 / -.000	0.218	+.005 / -.000	3.71
H-01312/N*	1.312	+.000 / -.001	1.312	1.687	0.212	1.447	+.003 / -.000	1.677	+.003 / -.000	0.218	+.005 / -.000	3.97
H-01375/N	1.375	+.000 / -.001	1.375	1.750	0.212	1.510	+.003 / -.000	1.740	+.003 / -.000	0.218	+.005 / -.000	3.78

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

H SERIES - NBR 80-90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
H-01437/N*	1.437	+.000 / -.001	1.437	1.812	0.212	1.572	+.003 / -.000	1.802	+.003 / -.000	0.218	+.005 / -.000	4.19
H-01500/N	1.500	+.000 / -.001	1.500	1.875	0.212	1.635	+.003 / -.000	1.865	+.003 / -.000	0.218	+.005 / -.000	4.23
H-01562/N*	1.562	+.000 / -.001	1.562	1.937	0.212	1.697	+.003 / -.000	1.927	+.003 / -.000	0.218	+.005 / -.000	4.32
H-01625/N	1.625	+.000 / -.001	1.625	2.000	0.212	1.760	+.003 / -.000	1.990	+.003 / -.000	0.218	+.005 / -.000	4.38
H-01687/N*	1.687	+.000 / -.001	1.687	2.062	0.212	1.823	+.003 / -.000	2.052	+.003 / -.000	0.218	+.005 / -.000	4.45
H-01750/N	1.750	+.000 / -.001	1.750	2.125	0.212	1.885	+.003 / -.000	2.115	+.003 / -.000	0.218	+.005 / -.000	4.52
H-01812/N*	1.812	+.000 / -.001	1.812	2.187	0.212	1.947	+.003 / -.000	2.177	+.003 / -.000	0.218	+.005 / -.000	4.50
H-01875/N	1.875	+.000 / -.001	1.875	2.250	0.212	2.010	+.003 / -.000	2.240	+.003 / -.000	0.218	+.005 / -.000	3.88
H-01937/N*	1.937	+.000 / -.001	1.937	2.312	0.212	2.072	+.003 / -.000	2.302	+.003 / -.000	0.218	+.005 / -.000	4.70
H-02000/N	2.000	+.000 / -.001	2.000	2.375	0.212	2.135	+.003 / -.000	2.365	+.003 / -.000	0.218	+.005 / -.000	5.15
H-02062/N*	2.062	+.000 / -.001	2.062	2.437	0.212	2.197	+.003 / -.000	2.427	+.003 / -.000	0.218	+.005 / -.000	5.35
H-02125/N*	2.125	+.000 / -.001	2.125	2.500	0.212	2.260	+.003 / -.000	2.490	+.003 / -.000	0.218	+.005 / -.000	5.27
H-02187/N*	2.187	+.000 / -.001	2.187	2.687	0.275	2.323	+.003 / -.000	2.683	+.003 / -.000	0.281	+.005 / -.000	5.42
H-02250/N	2.250	+.000 / -.001	2.250	2.750	0.275	2.385	+.003 / -.000	2.745	+.003 / -.000	0.281	+.005 / -.000	5.46
H-02312/N*	2.312	+.000 / -.001	2.312	2.812	0.275	2.447	+.003 / -.000	2.807	+.003 / -.000	0.281	+.005 / -.000	5.66
H-02375/N*	2.375	+.000 / -.001	2.375	2.875	0.275	2.510	+.003 / -.000	2.870	+.003 / -.000	0.281	+.005 / -.000	4.85
H-02437/N*	2.437	+.000 / -.001	2.437	2.937	0.275	2.572	+.003 / -.000	2.932	+.003 / -.000	0.281	+.005 / -.000	5.71
H-02500/N	2.500	+.000 / -.001	2.500	3.000	0.275	2.635	+.003 / -.000	2.995	+.003 / -.000	0.281	+.005 / -.000	4.51
H-02562/N*	2.562	+.000 / -.001	2.562	3.062	0.275	2.697	+.003 / -.000	3.057	+.003 / -.000	0.281	+.005 / -.000	6.07
H-02625/N*	2.625	+.000 / -.001	2.625	3.125	0.275	2.760	+.003 / -.000	3.120	+.003 / -.000	0.281	+.005 / -.000	6.47
H-02687/N*	2.687	+.000 / -.001	2.687	3.187	0.275	2.823	+.003 / -.000	3.183	+.003 / -.000	0.281	+.005 / -.000	6.51
H-02750/N	2.750	+.000 / -.001	2.750	3.250	0.275	2.885	+.003 / -.000	3.245	+.003 / -.000	0.281	+.005 / -.000	6.59
H-02812/N*	2.812	+.000 / -.001	2.812	3.312	0.275	2.947	+.003 / -.000	3.307	+.003 / -.000	0.281	+.005 / -.000	6.71
H-02875/N*	2.875	+.000 / -.001	2.875	3.375	0.275	3.010	+.003 / -.000	3.370	+.003 / -.000	0.281	+.005 / -.000	6.82
H-02937/N*	2.937	+.000 / -.001	2.937	3.437	0.275	3.073	+.003 / -.000	3.433	+.003 / -.000	0.281	+.005 / -.000	7.32
H-03000/N	3.000	+.000 / -.002	3.000	3.500	0.275	3.135	+.003 / -.000	3.495	+.003 / -.000	0.281	+.005 / -.000	7.32
H-03125/N*	3.125	+.000 / -.002	3.125	3.625	0.275	3.260	+.003 / -.000	3.620	+.003 / -.000	0.281	+.005 / -.000	8.27
H-03250/N*	3.250	+.000 / -.002	3.250	3.750	0.275	3.385	+.003 / -.000	3.745	+.003 / -.000	0.281	+.005 / -.000	8.30
H-03375/N*	3.375	+.000 / -.002	3.375	3.875	0.275	3.510	+.003 / -.000	3.870	+.003 / -.000	0.281	+.005 / -.000	8.37
H-03437/N	3.437	+.000 / -.002	3.437	3.937	0.275	3.572	+.003 / -.000	3.932	+.003 / -.000	0.281	+.005 / -.000	8.67
H-03500/N	3.500	+.000 / -.002	3.500	4.000	0.275	3.635	+.003 / -.000	3.995	+.003 / -.000	0.281	+.005 / -.000	8.76
H-03625/N*	3.625	+.000 / -.002	3.625	4.125	0.275	3.760	+.003 / -.000	4.120	+.003 / -.000	0.281	+.005 / -.000	9.05
H-03687/N*	3.687	+.000 / -.002	3.687	4.187	0.275	3.822	+.003 / -.000	4.182	+.003 / -.000	0.281	+.005 / -.000	9.85
H-03750/N*	3.750	+.000 / -.002	3.750	4.250	0.275	3.885	+.003 / -.000	4.245	+.003 / -.000	0.281	+.005 / -.000	9.95
H-03875/N*	3.875	+.000 / -.002	3.875	4.375	0.275	4.010	+.003 / -.000	4.370	+.003 / -.000	0.281	+.005 / -.000	9.59
H-04000/N	4.000	+.000 / -.002	4.000	4.500	0.275	4.135	+.003 / -.000	4.495	+.003 / -.000	0.281	+.005 / -.000	9.61
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	14.84
H-04250/N*	4.250	+.000 / -.002	4.250	4.750	0.275	4.385	+.003 / -.000	4.745	+.003 / -.000	0.281	+.005 / -.000	9.65
H-04375/N	4.375	+.000 / -.002	4.375	4.875	0.275	4.510	+.003 / -.000	4.870	+.003 / -.000	0.281	+.005 / -.000	9.78
H-04437/N*	4.437	+.000 / -.002	4.437	4.937	0.275	4.472	+.003 / -.000	4.932	+.003 / -.000	0.281	+.005 / -.000	20.34
H-04500/N	4.500	+.000 / -.002	4.500	5.000	0.275	4.635	+.003 / -.000	4.995	+.003 / -.000	0.281	+.005 / -.000	7.74
H-04625/N*	4.625	+.000 / -.002	4.625	5.125	0.275	4.760	+.003 / -.000	5.120	+.003 / -.000	0.281	+.005 / -.000	10.20
H-04750/N*	4.750	+.000 / -.002	4.750	5.250	0.275	4.885	+.003 / -.000	5.245	+.003 / -.000	0.281	+.005 / -.000	10.48
H-04875/N*	4.875	+.000 / -.002	4.875	5.375	0.275	5.010	+.003 / -.000	5.370	+.003 / -.000	0.281	+.005 / -.000	12.60
H-05000/N	5.000	+.000 / -.002	5.000	5.500	0.275	5.135	+.003 / -.000	5.495	+.003 / -.000	0.281	+.005 / -.000	10.17
H-05125/N*	5.125	+.000 / -.002	5.125	5.625	0.275	5.260	+.003 / -.000	5.620	+.003 / -.000	0.281	+.005 / -.000	14.76
H-05187/N*	5.187	+.000 / -.002	5.187	5.687	0.275	5.322	+.003 / -.000	5.682	+.003 / -.000	0.281	+.005 / -.000	15.26
H-05250/N*	5.250	+.000 / -.002	5.250	5.750	0.275	5.385	+.003 / -.000	5.745	+.003 / -.000	0.281	+.005 / -.000	16.38

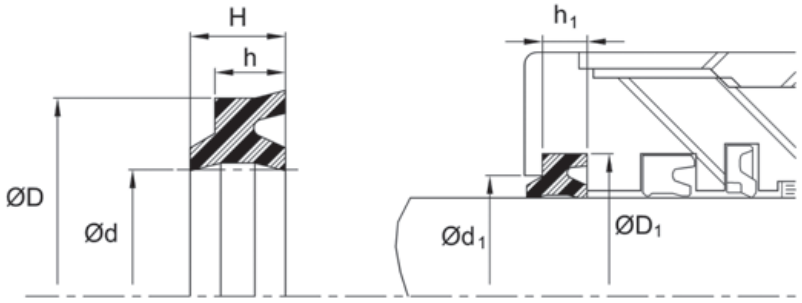
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

H SERIES - NBR 80-90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
H-05375/N*	5.375	+.000 / -.002	5.375	5.875	0.275	5.510	+.003 / -.000	5.870	+.003 / -.000	0.281	+.005 / -.000	17.50
H-05500/N	5.500	+.000 / -.002	5.500	6.000	0.275	5.635	+.003 / -.000	5.995	+.003 / -.000	0.281	+.005 / -.000	8.80
H-05625/N*	5.625	+.000 / -.002	5.625	6.125	0.275	5.760	+.003 / -.000	6.120	+.003 / -.000	0.281	+.005 / -.000	17.60
H-05750/N	5.750	+.000 / -.002	5.750	6.250	0.275	5.885	+.003 / -.000	6.245	+.003 / -.000	0.281	+.005 / -.000	17.90
H-05875/N*	5.875	+.000 / -.002	5.875	6.375	0.275	6.010	+.003 / -.000	6.370	+.003 / -.000	0.281	+.005 / -.000	18.16
H-06000/N	6.000	+.000 / -.002	6.000	6.500	0.275	6.135	+.003 / -.000	6.495	+.003 / -.000	0.281	+.005 / -.000	10.76
H-06250/N	6.250	+.000 / -.002	6.250	6.750	0.275	6.385	+.003 / -.000	6.745	+.003 / -.000	0.281	+.005 / -.000	17.02
H-06375/N*	6.375	+.000 / -.002	6.375	6.875	0.275	6.510	+.003 / -.000	6.870	+.003 / -.000	0.281	+.005 / -.000	17.63
H-06500/N*	6.500	+.000 / -.002	6.500	7.000	0.275	6.635	+.003 / -.000	6.995	+.003 / -.000	0.281	+.005 / -.000	10.78
H-06750/N	6.750	+.000 / -.002	6.750	7.250	0.275	6.885	+.003 / -.000	7.245	+.003 / -.000	0.281	+.005 / -.000	37.44
H-07000/N	7.000	+.000 / -.002	7.000	7.500	0.275	7.135	+.003 / -.000	7.495	+.003 / -.000	0.281	+.005 / -.000	28.37
H-07250/N	7.250	+.000 / -.002	7.250	7.750	0.275	7.385	+.003 / -.000	7.745	+.003 / -.000	0.281	+.005 / -.000	32.90
H-07500/N*	7.500	+.000 / -.002	7.500	8.000	0.275	7.635	+.003 / -.000	7.995	+.003 / -.000	0.281	+.005 / -.000	33.62
H-07750/N*	7.750	+.000 / -.002	7.750	8.250	0.275	7.885	+.003 / -.000	8.245	+.003 / -.000	0.281	+.005 / -.000	34.04
H-08000/N*	8.000	+.000 / -.002	8.000	8.500	0.275	8.135	+.003 / -.000	8.495	+.003 / -.000	0.281	+.005 / -.000	28.81
H-08250/N*	8.250	+.000 / -.002	8.250	8.750	0.275	8.385	+.003 / -.000	8.745	+.003 / -.000	0.281	+.005 / -.000	27.79
H-08500/N*	8.500	+.000 / -.002	8.500	9.000	0.275	8.635	+.003 / -.000	8.995	+.003 / -.000	0.281	+.005 / -.000	29.94
H-08750/N*	8.750	+.000 / -.002	8.750	9.250	0.275	8.885	+.003 / -.000	9.245	+.003 / -.000	0.281	+.005 / -.000	31.19
H-09000/N*	9.000	+.000 / -.002	9.000	9.500	0.275	9.135	+.003 / -.000	9.495	+.003 / -.000	0.281	+.005 / -.000	32.28
H-09250/N*	9.250	+.000 / -.002	9.250	9.750	0.275	9.385	+.003 / -.000	9.745	+.003 / -.000	0.281	+.005 / -.000	33.62
H-09500/N*	9.500	+.000 / -.002	9.500	10.000	0.275	9.635	+.003 / -.000	9.995	+.003 / -.000	0.281	+.005 / -.000	34.54
H-09750/N	9.750	+.000 / -.002	9.750	10.250	0.275	9.885	+.003 / -.000	10.245	+.003 / -.000	0.281	+.005 / -.000	37.88
H-10000/N*	10.000	+.000 / -.002	10.000	10.500	0.275	10.135	+.003 / -.000	10.495	+.003 / -.000	0.281	+.005 / -.000	56.45

H - Rod Wipers

FPM 90A



Temperature: -20/400F [-28/204C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	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	9.82
H-00625/V	0.625	+.000 / -.001	0.625	0.937	0.194	0.745	+.002 / -.000	0.927	+.002 / -.000	0.203	+.005 / -.000	10.85
H-00750/V	0.750	+.000 / -.001	0.750	1.062	0.194	0.870	+.002 / -.000	1.052	+.002 / -.000	0.203	+.005 / -.000	9.54
H-01000/V	1.000	+.000 / -.001	1.000	1.375	0.212	1.135	+.003 / -.000	1.365	+.003 / -.000	0.218	+.005 / -.000	11.67
H-01375/V	1.375	+.000 / -.001	1.375	1.750	0.212	1.510	+.003 / -.000	1.740	+.003 / -.000	0.218	+.005 / -.000	21.34
H-01750/V	1.750	+.000 / -.001	1.750	2.125	0.212	1.885	+.003 / -.000	2.115	+.003 / -.000	0.218	+.005 / -.000	31.90
H-02000/V	2.000	+.000 / -.001	2.000	2.375	0.212	2.135	+.003 / -.000	2.365	+.003 / -.000	0.218	+.005 / -.000	16.49

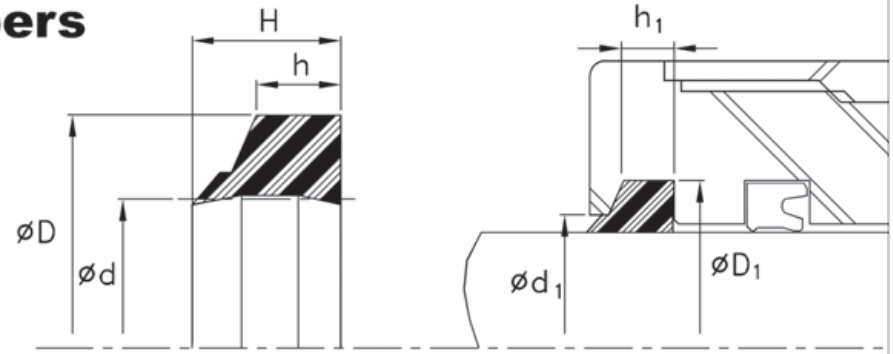
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

H SERIES - FPM 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
H-02250/V	2.250	+.000 / -.001	2.250	2.750	0.275	2.385	+.003 / -.000	2.745	+.003 / -.000	0.281	+.005 / -.000	24.07
H-02500/V	2.500	+.000 / -.001	2.500	3.000	0.275	2.635	+.003 / -.000	2.995	+.003 / -.000	0.281	+.005 / -.000	18.27
H-03000/V	3.000	+.000 / -.002	3.000	3.500	0.275	3.135	+.003 / -.000	3.495	+.003 / -.000	0.281	+.005 / -.000	23.17
H-03500/V	3.500	+.000 / -.002	3.500	4.000	0.275	3.635	+.003 / -.000	3.995	+.003 / -.000	0.281	+.005 / -.000	29.23
H-04000/V	4.000	+.000 / -.002	4.000	4.500	0.275	4.135	+.003 / -.000	4.495	+.003 / -.000	0.281	+.005 / -.000	32.28
H-04500/V	4.500	+.000 / -.002	4.500	5.000	0.275	4.635	+.003 / -.000	4.995	+.003 / -.000	0.281	+.005 / -.000	33.18
H-05000/V	5.000	+.000 / -.002	5.000	5.500	0.275	5.135	+.003 / -.000	5.495	+.003 / -.000	0.281	+.005 / -.000	35.04
H-05500/V	5.500	+.000 / -.002	5.500	6.000	0.275	5.635	+.003 / -.000	5.995	+.003 / -.000	0.281	+.005 / -.000	38.38
H-06000/V*	6.000	+.000 / -.002	6.000	6.500	0.275	6.135	+.003 / -.000	6.495	+.003 / -.000	0.281	+.005 / -.000	41.71

HBT - Rod Wipers

Hytrel 92A



Temperature: -65/220F [-53/104C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
HBT-01260*	0.750	+.000 / -.002	0.750	1.125	0.190	0.832	+.005 / -.000	1.135	+.005 / -.000	0.195	+.005 / -.000	2.11
HBT-01460*	0.875	+.000 / -.002	0.875	1.250	0.190	0.957	+.005 / -.000	1.260	+.005 / -.000	0.195	+.005 / -.000	2.11
HBT-10060*	1.000	+.000 / -.002	1.000	1.375	0.190	1.082	+.005 / -.000	1.385	+.005 / -.000	0.195	+.005 / -.000	2.32
HBT-10260*	1.125	+.000 / -.002	1.125	1.500	0.190	1.207	+.005 / -.000	1.510	+.005 / -.000	0.195	+.005 / -.000	2.33
HBT-10460*	1.250	+.000 / -.002	1.250	1.625	0.190	1.332	+.005 / -.000	1.635	+.005 / -.000	0.195	+.005 / -.000	2.33
HBT-10660*	1.375	+.000 / -.002	1.375	1.750	0.190	1.457	+.005 / -.000	1.760	+.005 / -.000	0.195	+.005 / -.000	2.36
HBT-10860*	1.500	+.000 / -.002	1.500	1.875	0.190	1.582	+.005 / -.000	1.885	+.005 / -.000	0.195	+.005 / -.000	2.44
HBT-11260	1.750	+.000 / -.002	1.750	2.125	0.190	1.832	+.005 / -.000	2.135	+.005 / -.000	0.195	+.005 / -.000	3.32
HBT-11460*	1.875	+.000 / -.002	1.875	2.250	0.190	1.957	+.005 / -.000	2.260	+.005 / -.000	0.195	+.005 / -.000	2.99
HBT-11580*	1.938	+.000 / -.002	1.938	2.438	0.250	2.094	+.005 / -.000	2.448	+.005 / -.000	0.255	+.005 / -.000	2.63
HBT-20060*	2.000	+.000 / -.002	2.000	2.375	0.190	2.082	+.005 / -.000	2.385	+.005 / -.000	0.195	+.005 / -.000	2.69
HBT-20481*	2.210	+.000 / -.002	2.210	2.710	0.250	2.367	+.005 / -.000	2.720	+.005 / -.000	0.255	+.005 / -.000	3.48
HBT-20460*	2.250	+.000 / -.002	2.250	2.625	0.190	2.332	+.005 / -.000	2.635	+.005 / -.000	0.195	+.005 / -.000	2.93
HBT-20781*	2.438	+.000 / -.002	2.438	3.000	0.284	2.633	+.005 / -.000	3.010	+.005 / -.000	0.289	+.005 / -.000	3.46
HBT-20860	2.500	+.000 / -.002	2.500	2.875	0.190	2.577	+.005 / -.000	2.885	+.005 / -.000	0.195	+.005 / -.000	3.25
HBT-20880*	2.500	+.000 / -.002	2.500	3.000	0.250	2.652	+.005 / -.000	3.010	+.005 / -.000	0.255	+.005 / -.000	3.44
HBT-21080	2.625	+.000 / -.002	2.625	3.125	0.250	2.777	+.005 / -.000	3.135	+.005 / -.000	0.255	+.005 / -.000	3.56
HBT-21260*	2.750	+.000 / -.002	2.750	3.125	0.190	2.827	+.005 / -.000	3.135	+.005 / -.000	0.195	+.005 / -.000	3.62
HBT-21280*	2.750	+.000 / -.002	2.750	3.250	0.250	2.902	+.005 / -.000	3.260	+.005 / -.000	0.255	+.005 / -.000	3.75
HBT-30090*	2.950	+.000 / -.002	2.950	3.500	0.275	3.146	+.005 / -.000	3.510	+.005 / -.000	0.280	+.005 / -.000	4.33
HBT-30060*	3.000	+.000 / -.002	3.000	3.375	0.190	3.077	+.005 / -.000	3.385	+.005 / -.000	0.195	+.005 / -.000	3.97

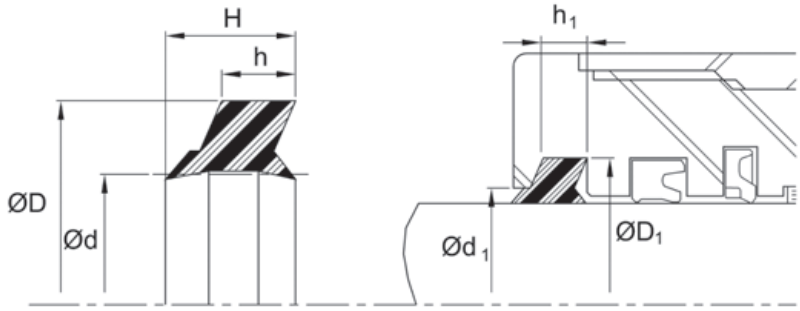
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

HBT SERIES - HYTREL 92A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
HBT-30080*	3.000	+.000 / -.002	3.000	3.500	0.250	3.152	+.005 / -.000	3.510	+.005 / -.000	0.255	+.005 / -.000	4.18
HBT-30381*	3.165	+.000 / -.002	3.165	3.734	0.284	3.317	+.005 / -.000	3.744	+.005 / -.000	0.289	+.005 / -.000	5.18
HBT-30480*	3.250	+.000 / -.002	3.250	3.750	0.250	3.402	+.005 / -.000	3.760	+.005 / -.000	0.255	+.005 / -.000	4.61
HBT-30890*	3.450	+.000 / -.002	3.450	4.000	0.275	3.646	+.005 / -.000	4.010	+.005 / -.000	0.280	+.005 / -.000	4.82
HBT-30860*	3.500	+.000 / -.002	3.500	3.875	0.190	3.577	+.005 / -.000	3.885	+.005 / -.000	0.195	+.005 / -.000	4.70
HBT-30880*	3.500	+.000 / -.002	3.500	4.000	0.250	3.562	+.005 / -.000	4.010	+.005 / -.000	0.255	+.005 / -.000	4.70
HBT-31080	3.625	+.000 / -.002	3.625	4.125	0.250	3.777	+.005 / -.000	4.135	+.005 / -.000	0.255	+.005 / -.000	4.98
HBT-31280*	3.750	+.000 / -.002	3.750	4.250	0.250	3.902	+.005 / -.000	4.260	+.005 / -.000	0.255	+.005 / -.000	5.04
HBT-40080	4.000	+.000 / -.002	4.000	4.500	0.250	4.152	+.005 / -.000	4.510	+.005 / -.000	0.255	+.005 / -.000	5.22
HBT-40480*	4.250	+.000 / -.002	4.250	4.750	0.250	4.402	+.005 / -.000	4.760	+.005 / -.000	0.255	+.005 / -.000	5.57
HBT-40880	4.500	+.000 / -.003	4.500	5.000	0.250	4.652	+.005 / -.000	5.010	+.005 / -.000	0.255	+.005 / -.000	7.35
HBT-41280	4.750	+.000 / -.003	4.750	5.250	0.250	4.902	+.005 / -.000	5.260	+.005 / -.000	0.255	+.005 / -.000	6.11
HBT-41581*	4.925	+.000 / -.003	4.925	5.484	0.284	5.090	+.005 / -.000	5.489	+.005 / -.000	0.289	+.005 / -.000	7.97
HBT-50060*	5.000	+.000 / -.003	5.000	5.375	0.190	5.077	+.005 / -.000	5.385	+.005 / -.000	0.195	+.005 / -.000	9.50
HBT-50081*	5.000	+.000 / -.003	5.000	5.500	0.250	5.152	+.005 / -.000	5.510	+.005 / -.000	0.255	+.005 / -.000	9.85
HBT-50880	5.450	+.000 / -.003	5.450	6.000	0.275	5.646	+.005 / -.000	6.010	+.005 / -.000	0.280	+.005 / -.000	8.14
HBT-41280	5.700	+.000 / -.003	5.700	6.250	0.275	5.896	+.005 / -.000	6.260	+.005 / -.000	0.280	+.005 / -.000	9.56
HBT-60080*	6.000	+.000 / -.003	6.000	6.500	0.250	6.152	+.005 / -.000	6.510	+.005 / -.000	0.255	+.005 / -.000	8.59

K - Rod Wipers

Polyurethane AU 90A



Temperature: -40/225F [-40/107C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	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	3.06
K-00625	0.625	+.000 / -.002	0.625	0.875	0.150	0.750	+.000 / -.005	0.885	+.005 / -.000	0.155	+.005 / -.000	3.06
K-00687*	0.687	+.000 / -.002	0.687	0.937	0.150	0.812	+.000 / -.005	0.947	+.005 / -.000	0.155	+.005 / -.000	3.06
K-00750	0.750	+.000 / -.002	0.750	1.125	0.190	0.832	+.000 / -.005	1.135	+.005 / -.000	0.195	+.005 / -.000	3.06
K-00875	0.875	+.000 / -.002	0.875	1.250	0.190	0.957	+.000 / -.005	1.260	+.005 / -.000	0.195	+.005 / -.000	3.11
K-01000	1.000	+.000 / -.002	1.000	1.375	0.190	1.082	+.000 / -.005	1.385	+.005 / -.000	0.195	+.005 / -.000	3.17
K-01125	1.125	+.000 / -.002	1.125	1.500	0.190	1.207	+.000 / -.005	1.510	+.005 / -.000	0.195	+.005 / -.000	3.31
K-01187	1.187	+.000 / -.002	1.187	1.562	0.190	1.269	+.000 / -.005	1.572	+.005 / -.000	0.195	+.005 / -.000	3.43
K-01250	1.250	+.000 / -.002	1.250	1.625	0.190	1.332	+.000 / -.005	1.635	+.005 / -.000	0.195	+.005 / -.000	3.53
K-01375	1.375	+.000 / -.002	1.375	1.750	0.190	1.457	+.000 / -.005	1.760	+.005 / -.000	0.195	+.005 / -.000	3.80
K-01437*	1.437	+.000 / -.002	1.437	1.812	0.190	1.519	+.000 / -.005	1.822	+.005 / -.000	0.195	+.005 / -.000	4.03
K-01500	1.500	+.000 / -.002	1.500	1.875	0.190	1.582	+.000 / -.005	1.885	+.005 / -.000	0.195	+.005 / -.000	4.06

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

K SERIES - AU 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
K-01625	1.625	+.000 / -.002	1.625	2.000	0.190	1.707	+.000 / -.005	2.010	+.005 / -.000	0.195	+.005 / -.000	4.13
K-01750	1.750	+.000 / -.002	1.750	2.125	0.190	1.832	+.000 / -.005	2.135	+.005 / -.000	0.195	+.005 / -.000	4.31
K-01875	1.875	+.000 / -.002	1.875	2.250	0.190	1.957	+.000 / -.005	2.260	+.005 / -.000	0.195	+.005 / -.000	4.53
K-01937*	1.937	+.000 / -.002	1.937	2.312	0.190	2.019	+.000 / -.005	2.322	+.005 / -.000	0.195	+.005 / -.000	4.85
K-02000	2.000	+.000 / -.002	2.000	2.375	0.190	2.082	+.000 / -.005	2.385	+.005 / -.000	0.195	+.005 / -.000	4.93
K-02125	2.125	+.000 / -.002	2.125	2.500	0.190	2.207	+.000 / -.005	2.510	+.005 / -.000	0.195	+.005 / -.000	6.60
K-02187*	2.187	+.000 / -.002	2.187	2.562	0.190	2.269	+.000 / -.005	2.572	+.005 / -.000	0.195	+.005 / -.000	6.37
K-02210*	2.210	+.000 / -.002	2.210	2.710	0.250	2.367	+.000 / -.005	2.720	+.005 / -.000	0.255	+.005 / -.000	8.39
K-02250	2.250	+.000 / -.002	2.250	2.750	0.250	2.407	+.000 / -.005	2.760	+.005 / -.000	0.255	+.005 / -.000	5.17
K-02251	2.250	+.000 / -.002	2.250	2.625	0.190	2.332	+.000 / -.005	2.635	+.005 / -.000	0.195	+.005 / -.000	5.46
K-02375*	2.375	+.000 / -.002	2.375	2.875	0.250	2.532	+.000 / -.005	2.885	+.005 / -.000	0.255	+.005 / -.000	5.46
K-02470	2.470	+.000 / -.002	2.470	2.970	0.250	2.627	+.000 / -.005	2.980	+.005 / -.000	0.255	+.005 / -.000	12.29
K-02500	2.500	+.000 / -.002	2.500	3.000	0.250	2.657	+.000 / -.005	3.010	+.005 / -.000	0.255	+.005 / -.000	5.45
K-02501	2.500	+.000 / -.002	2.500	2.875	0.190	2.582	+.000 / -.005	2.885	+.005 / -.000	0.195	+.005 / -.000	7.53
K-02501/V*	2.500	+.000 / -.002	2.500	2.875	0.190	2.582	+.000 / -.005	2.885	+.005 / -.000	0.195	+.005 / -.000	20.55
K-02625	2.625	+.000 / -.002	2.625	3.125	0.250	2.782	+.000 / -.005	3.135	+.005 / -.000	0.255	+.005 / -.000	5.80
K-02750	2.750	+.000 / -.002	2.750	3.250	0.250	2.907	+.000 / -.005	3.260	+.005 / -.000	0.255	+.005 / -.000	6.23
K-02751	2.750	+.000 / -.002	2.750	3.125	0.190	2.832	+.000 / -.005	3.135	+.005 / -.000	0.195	+.005 / -.000	7.88
K-02875*	2.875	+.000 / -.002	2.875	3.375	0.250	3.032	+.000 / -.005	3.385	+.005 / -.000	0.255	+.005 / -.000	11.25
K-02937*	2.937	+.000 / -.002	2.937	3.437	0.250	3.094	+.000 / -.005	3.447	+.005 / -.000	0.255	+.005 / -.000	6.74
K-03000	3.000	+.000 / -.002	3.000	3.500	0.250	3.157	+.000 / -.005	3.510	+.005 / -.000	0.255	+.005 / -.000	7.00
K-03000/V	3.000	+.000 / -.002	3.000	3.500	0.250	3.157	+.000 / -.005	3.510	+.005 / -.000	0.255	+.005 / -.000	21.85
K-03001	3.000	+.000 / -.002	3.000	3.375	0.190	3.082	+.000 / -.005	3.385	+.005 / -.000	0.195	+.005 / -.000	8.68
K-03250	3.250	+.000 / -.002	3.250	3.750	0.250	3.407	+.000 / -.005	3.760	+.005 / -.000	0.255	+.005 / -.000	7.52
K-03375	3.375	+.000 / -.002	3.375	3.875	0.250	3.532	+.000 / -.005	3.885	+.005 / -.000	0.255	+.005 / -.000	8.30
K-03450	3.450	+.000 / -.002	3.450	4.000	0.243	3.607	+.000 / -.005	4.010	+.005 / -.000	0.247	+.005 / -.000	9.37
K-03500	3.500	+.000 / -.002	3.500	4.000	0.250	3.657	+.000 / -.005	4.010	+.005 / -.000	0.255	+.005 / -.000	8.30
K-03501	3.500	+.000 / -.002	3.500	3.875	0.190	3.582	+.000 / -.005	3.885	+.005 / -.000	0.195	+.005 / -.000	10.20
K-03625	3.625	+.000 / -.002	3.625	4.125	0.250	3.782	+.000 / -.005	4.135	+.005 / -.000	0.255	+.005 / -.000	11.68
K-03687	3.687	+.000 / -.002	3.687	4.187	0.250	3.844	+.000 / -.005	4.197	+.005 / -.000	0.255	+.005 / -.000	11.88
K-03750	3.750	+.000 / -.002	3.750	4.250	0.250	3.907	+.000 / -.005	4.260	+.005 / -.000	0.255	+.005 / -.000	8.97
K-03751	3.750	+.000 / -.002	3.750	4.125	0.190	3.832	+.000 / -.005	4.135	+.005 / -.000	0.195	+.005 / -.000	11.10
K-03875	3.875	+.000 / -.002	3.875	4.375	0.250	4.032	+.000 / -.005	4.385	+.005 / -.000	0.255	+.005 / -.000	12.66
K-03970	3.970	+.000 / -.002	3.970	4.470	0.250	4.127	+.000 / -.005	4.480	+.005 / -.000	0.255	+.005 / -.000	12.41
K-03971*	3.970	+.000 / -.002	3.970	4.281	0.156	4.095	+.000 / -.005	4.291	+.005 / -.000	0.161	+.005 / -.000	12.41
K-04000	4.000	+.000 / -.002	4.000	4.500	0.250	4.157	+.000 / -.005	4.510	+.005 / -.000	0.255	+.005 / -.000	10.83
K-04062*	4.062	+.000 / -.002	4.062	4.562	0.250	4.219	+.000 / -.005	4.572	+.005 / -.000	0.255	+.005 / -.000	11.48
K-04125*	4.125	+.000 / -.002	4.125	4.625	0.250	4.282	+.000 / -.005	4.635	+.005 / -.000	0.255	+.005 / -.000	14.95
K-04250*	4.250	+.000 / -.002	4.250	4.750	0.250	4.407	+.000 / -.005	4.760	+.005 / -.000	0.255	+.005 / -.000	15.49
K-04375*	4.375	+.000 / -.002	4.375	4.875	0.250	4.562	+.000 / -.005	4.885	+.005 / -.000	0.255	+.005 / -.000	12.14
K-04437	4.437	+.000 / -.003	4.437	4.937	0.250	4.594	+.000 / -.005	4.947	+.005 / -.000	0.255	+.005 / -.000	15.70
K-04500	4.500	+.000 / -.003	4.500	5.000	0.250	4.657	+.000 / -.005	5.010	+.005 / -.000	0.255	+.005 / -.000	12.61
K-04625*	4.625	+.000 / -.003	4.625	5.125	0.250	4.782	+.000 / -.005	5.135	+.005 / -.000	0.255	+.005 / -.000	17.16
K-04700*	4.700	+.000 / -.003	4.700	5.200	0.250	4.857	+.000 / -.005	5.210	+.005 / -.000	0.255	+.005 / -.000	17.82
K-04750	4.750	+.000 / -.003	4.750	5.250	0.250	4.907	+.000 / -.005	5.260	+.005 / -.000	0.255	+.005 / -.000	17.94
K-04875*	4.875	+.000 / -.003	4.875	5.375	0.250	5.032	+.000 / -.005	5.385	+.005 / -.000	0.255	+.005 / -.000	12.74
K-05000	5.000	+.000 / -.003	5.000	5.500	0.250	5.157	+.000 / -.005	5.510	+.005 / -.000	0.255	+.005 / -.000	14.12
K-05250	5.250	+.000 / -.003	5.250	5.750	0.250	5.407	+.000 / -.005	5.760	+.005 / -.000	0.255	+.005 / -.000	20.29

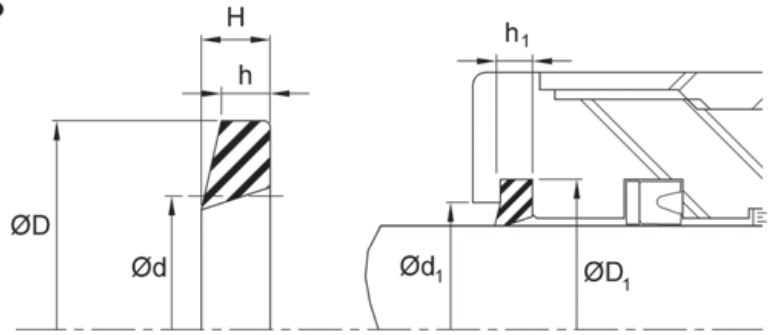
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

K SERIES - AU 90A

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
K-05375*	5.375	+.000 / -.003	5.375	5.875	0.250	5.532	+.000 / -.005	5.885	+.005 / -.000	0.255	+.005 / -.000	16.02
K-05500	5.500	+.000 / -.003	5.500	6.000	0.250	5.657	+.000 / -.005	6.010	+.005 / -.000	0.255	+.005 / -.000	23.88
K-05700*	5.700	+.000 / -.003	5.700	6.250	0.280	5.896	+.005 / -.000	6.260	+.005 / -.000	0.285	+.005 / -.000	23.91
K-05750*	5.750	+.000 / -.003	5.750	6.250	0.250	5.907	+.000 / -.005	6.260	+.005 / -.000	0.255	+.005 / -.000	23.93
K-05950	5.950	+.000 / -.003	5.950	6.450	0.250	6.107	+.000 / -.005	6.460	+.005 / -.000	0.255	+.005 / -.000	17.21
K-06000	6.000	+.000 / -.003	6.000	6.500	0.250	6.157	+.000 / -.005	6.510	+.005 / -.000	0.255	+.005 / -.000	15.78
K-06500*	6.500	+.000 / -.003	6.500	7.000	0.250	6.657	+.000 / -.005	7.010	+.005 / -.000	0.255	+.005 / -.000	24.70
K-07000	7.000	+.000 / -.003	7.000	7.500	0.250	7.157	+.000 / -.005	7.510	+.005 / -.000	0.255	+.005 / -.000	17.09
K-07500*	7.500	+.000 / -.003	7.500	8.000	0.250	7.657	+.005 / -.000	8.010	+.005 / -.000	0.255	+.005 / -.000	37.20
K-08000	8.000	+.000 / -.003	8.000	8.500	0.250	8.157	+.000 / -.005	8.510	+.005 / -.000	0.255	+.005 / -.000	37.55
K-08125	8.125	+.000 / -.003	8.125	8.625	0.250	8.282	+.000 / -.005	8.635	+.005 / -.000	0.255	+.005 / -.000	32.45
K-08500*	8.500	+.000 / -.003	8.500	9.000	0.250	8.657	+.000 / -.005	9.010	+.005 / -.000	0.255	+.005 / -.000	50.13
K-09125	9.125	+.000 / -.003	9.125	9.625	0.250	9.282	+.000 / -.005	9.635	+.005 / -.000	0.255	+.005 / -.000	56.55
K-09375	9.375	+.000 / -.003	9.375	9.875	0.250	9.532	+.000 / -.005	9.885	+.005 / -.000	0.255	+.005 / -.000	60.20

LDW - Rod Wipers

Nitrile NBR 85A



Temperature: -30/250F [-34/121C] **Pressure: N/A**

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				0.430	+.010 / -.000	0.540	+.010 / -.000	0.120	+.010 / -.000	2.91
LDW-00437*	0.437	+.000 / -.002				0.495	+.010 / -.000	0.610	+.010 / -.000	0.120	+.010 / -.000	2.91
LDW-00500*	0.500	+.000 / -.002				0.560	+.010 / -.000	0.680	+.010 / -.000	0.130	+.010 / -.000	2.91
LDW-00562*	0.562	+.000 / -.002				0.630	+.010 / -.000	0.740	+.010 / -.000	0.130	+.010 / -.000	2.91
LDW-00625*	0.625	+.000 / -.002				0.700	+.010 / -.000	0.820	+.010 / -.000	0.140	+.010 / -.000	2.92
LDW-00687*	0.687	+.000 / -.002				0.760	+.010 / -.000	0.880	+.010 / -.000	0.140	+.010 / -.000	4.51
LDW-00750*	0.750	+.000 / -.002				0.820	+.010 / -.000	0.950	+.010 / -.000	0.140	+.010 / -.000	4.56
LDW-00812*	0.812	+.000 / -.002				0.880	+.010 / -.000	1.020	+.010 / -.000	0.140	+.010 / -.000	7.51
LDW-00875*	0.875	+.000 / -.002				0.950	+.010 / -.000	1.080	+.010 / -.000	0.150	+.010 / -.000	3.53
LDW-00937*	0.937	+.000 / -.002				1.010	+.010 / -.000	1.150	+.010 / -.000	0.150	+.010 / -.000	7.51
LDW-01000	1.000	+.000 / -.002				1.080	+.010 / -.000	1.240	+.010 / -.000	0.160	+.010 / -.000	2.93
LDW-01125*	1.125	+.000 / -.002				1.210	+.010 / -.000	1.360	+.010 / -.000	0.160	+.010 / -.000	3.05
LDW-01187*	1.187	+.000 / -.002				1.270	+.010 / -.000	1.420	+.010 / -.000	0.160	+.010 / -.000	7.97
LDW-01250*	1.250	+.000 / -.002				1.330	+.010 / -.000	1.490	+.010 / -.000	0.170	+.010 / -.000	3.53
LDW-01312*	1.312	+.000 / -.002				1.390	+.010 / -.000	1.550	+.010 / -.000	0.170	+.010 / -.000	10.12
LDW-01375*	1.375	+.000 / -.002				1.460	+.010 / -.000	1.620	+.010 / -.000	0.170	+.010 / -.000	3.53

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

LDW SERIES - NBR 85A

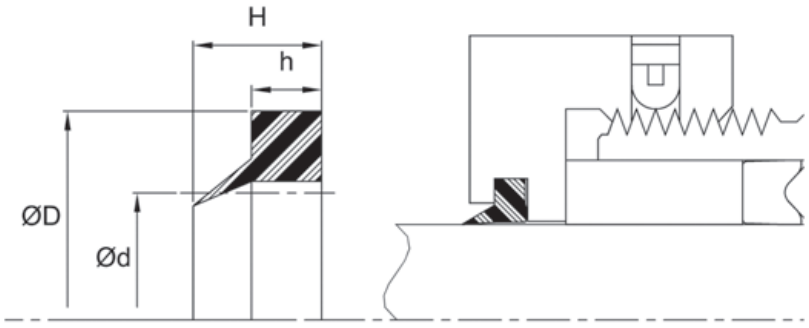
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
LDW-01500	1.500	+.000 / -.002				1.590	+.010 / -.000	1.770	+.010 / -.000	0.180	+.010 / -.000	3.28
LDW-01625*	1.625	+.000 / -.002				1.720	+.010 / -.000	1.880	+.010 / -.000	0.180	+.010 / -.000	9.97
LDW-01687*	1.687	+.000 / -.002				1.780	+.010 / -.000	1.960	+.010 / -.000	0.190	+.010 / -.000	8.89
LDW-01750	1.750	+.000 / -.002				1.850	+.010 / -.000	2.030	+.010 / -.000	0.190	+.010 / -.000	3.53
LDW-01875*	1.875	+.000 / -.002				1.970	+.010 / -.000	2.160	+.010 / -.000	0.190	+.010 / -.000	4.85
LDW-02000	2.000	+.000 / -.002				2.100	+.010 / -.000	2.300	+.010 / -.000	0.200	+.010 / -.000	4.37
LDW-02125*	2.125	+.000 / -.002				2.230	+.010 / -.000	2.430	+.010 / -.000	0.210	+.010 / -.000	4.85
LDW-02250*	2.250	+.000 / -.002				2.360	+.010 / -.000	2.570	+.010 / -.000	0.210	+.010 / -.000	4.12
LDW-02375	2.375	+.000 / -.002				2.490	+.010 / -.000	2.700	+.010 / -.000	0.220	+.010 / -.000	4.98
LDW-02500*	2.500	+.000 / -.003				2.610	+.010 / -.000	2.840	+.010 / -.000	0.220	+.010 / -.000	4.25
LDW-02625	2.625	+.000 / -.003				2.740	+.010 / -.000	2.970	+.010 / -.000	0.230	+.010 / -.000	4.85
LDW-02750	2.750	+.000 / -.003				2.870	+.010 / -.000	3.110	+.010 / -.000	0.230	+.010 / -.000	4.37
LDW-02875*	2.875	+.000 / -.003				2.970	+.010 / -.000	3.240	+.010 / -.000	0.240	+.010 / -.000	5.22
LDW-03000	3.000	+.000 / -.004				3.130	+.010 / -.000	3.380	+.010 / -.000	0.240	+.010 / -.000	4.37
LDW-03125*	3.125	+.000 / -.004				3.260	+.010 / -.000	3.515	+.010 / -.000	0.250	+.010 / -.000	4.75
LDW-03250*	3.250	+.000 / -.004				3.390	+.010 / -.000	3.650	+.010 / -.000	0.250	+.010 / -.000	10.73
LDW-03375*	3.375	+.000 / -.004				3.510	+.010 / -.000	3.780	+.010 / -.000	0.260	+.010 / -.000	10.58
LDW-03500*	3.500	+.000 / -.004				3.640	+.010 / -.000	3.920	+.010 / -.000	0.270	+.010 / -.000	5.35
LDW-03625*	3.625	+.000 / -.004				3.770	+.010 / -.000	4.055	+.010 / -.000	0.280	+.010 / -.000	6.68
LDW-03750*	3.750	+.000 / -.004				3.900	+.010 / -.000	4.190	+.010 / -.000	0.280	+.010 / -.000	5.46
LDW-04000*	4.000	+.000 / -.005				4.160	+.010 / -.000	4.460	+.010 / -.000	0.290	+.010 / -.000	10.58
LDW-04250*	4.250	+.000 / -.005				4.410	+.010 / -.000	4.730	+.010 / -.000	0.300	+.010 / -.000	16.56
LDW-04375*	4.375	+.000 / -.005				4.540	+.010 / -.000	4.860	+.010 / -.000	0.300	+.010 / -.000	15.33
LDW-04500*	4.500	+.000 / -.005				4.670	+.010 / -.000	5.000	+.010 / -.000	0.310	+.010 / -.000	17.63
LDW-05250*	5.250	+.000 / -.005				5.440	+.010 / -.000	5.810	+.010 / -.000	0.340	+.010 / -.000	24.53
LDW-05375*	5.375	+.000 / -.005				5.570	+.010 / -.000	5.945	+.010 / -.000	0.344	+.010 / -.000	20.09
LDW-05500*	5.500	+.000 / -.005				5.700	+.010 / -.000	6.080	+.010 / -.000	0.350	+.010 / -.000	21.01
LDW-05625*	5.625	+.000 / -.005				5.825	+.010 / -.000	6.125	+.010 / -.000	0.355	+.010 / -.000	26.21
LDW-06000*	6.000	+.000 / -.005				6.210	+.010 / -.000	6.620	+.010 / -.000	0.364	+.010 / -.000	26.84
LDW-06625*	6.625	+.000 / -.005				6.850	+.010 / -.000	7.295	+.010 / -.000	0.405	+.010 / -.000	28.23

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

CI - Rod Wipers

Hytrel 92A

REF: COMMERCIAL INTERTECH TELESCOPIC CYLINDERS



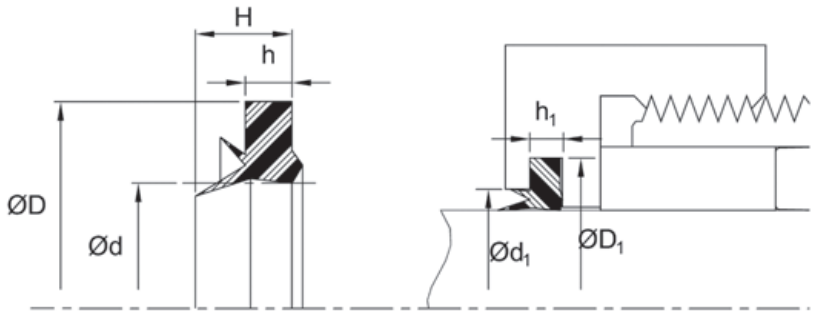
Temperature: -40/300F [-40/149C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
CI-02750W	2.750	+.000 / -.003	2.750	3.125	0.170							3.67
CI-03750W	3.750	+.000 / -.004	3.750	4.125	0.170							4.21
CI-04750W	4.750	+.000 / -.005	4.750	5.125	0.170							8.04
CI-05750W	5.750	+.000 / -.005	5.750	6.125	0.170							9.06
CI-06750W	6.750	+.000 / -.005	6.750	7.125	0.170							9.80
CI-07905W	7.905	+.000 / -.005	7.905	8.280	0.170							11.32
CI-09375W	9.375	+.000 / -.005	9.375	9.750	0.170							20.06

HYC - Rod Wipers

Hytrel 92A

REF: HYCO TELESCOPIC CYLINDERS



Temperature: -40/300F [-40/149C] **Pressure: N/A**

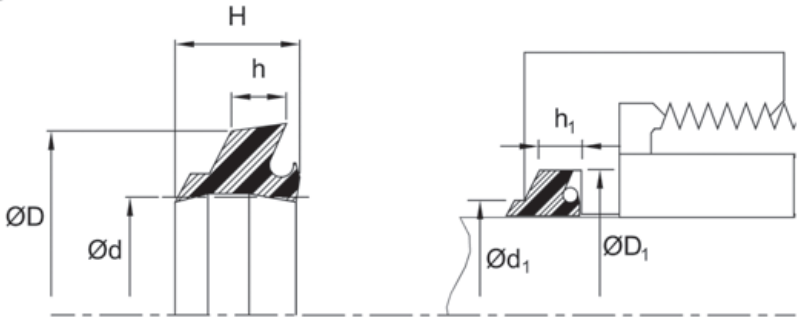
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
HYC-03000W	3.000	+.000 / -.003	3.000	3.500	0.125	3.300		3.530		0.139	+.004 / -.004	6.05
HYC-04000W	4.000	+.000 / -.004	4.000	4.500	0.125	4.300		4.530		0.139	+.004 / -.004	9.35
HYC-05000W	5.000	+.000 / -.005	5.000	5.500	0.125	5.300		5.530		0.139	+.004 / -.004	12.21
HYC-06000W	6.000	+.000 / -.005	6.000	6.500	0.125	6.300		6.530		0.139	+.004 / -.004	13.65
HYC-07000W	7.000	+.000 / -.005	7.000	7.500	0.125	7.300		7.530		0.139	+.004 / -.004	14.78
HYC-08000W	8.000	+.000 / -.005	8.000	8.500	0.125	8.300		8.530		0.139	+.004 / -.004	31.83
HYC-08125W	8.125	+.000 / -.005	8.125	8.625	0.125	8.425		8.655		0.139	+.004 / -.004	27.52
HYC-08250W	8.250	+.000 / -.005	8.250	8.750	0.125	8.550		8.780		0.139	+.004 / -.004	34.48
HYC-09000W*	9.000	+.000 / -.005	9.000	9.500	0.125	9.300		9.530		0.139	+.004 / -.004	41.68
HYC-09125W*	9.125	+.000 / -.005	9.125	9.625	0.125	9.425		9.655		0.139	+.004 / -.004	47.93
HYC-09375W	9.375	+.000 / -.005	9.375	9.875	0.125	9.675		9.905		0.139	+.004 / -.004	51.03
HYC-09750W	9.750	+.000 / -.005	9.750	10.250	0.125	10.050		10.280		0.139	+.004 / -.004	53.00

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

HYS - Rod Wipers

Polyurethane AU 90A

REF: HYSTER FORK LIFT CYLINDERS



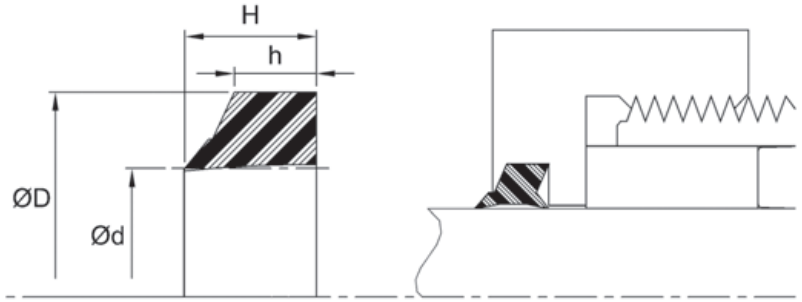
Temperature: -40/189F [-40/87C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
HYS-605606	1.950	+.000 / -.002	1.950	2.562	0.187							O/R
HYS-605607	2.200	+.000 / -.002	2.200	2.812	0.187							O/R
HYS-605609	2.700	+.000 / -.003	2.700	3.312	0.187							O/R
HYS-605610	2.900	+.000 / -.003	2.900	3.512	0.187							O/R
HYS-605611	3.200	+.000 / -.004	3.200	3.812	0.187							O/R
HYS-605613	3.700	+.000 / -.004	3.700	4.312	0.187							O/R
HYS-605615	4.200	+.000 / -.005	4.200	4.812	0.187							O/R
HYS-605616	4.400	+.000 / -.005	4.400	5.012	0.187							O/R
HYS-605617	4.700	+.000 / -.005	4.700	5.312	0.187							O/R

PG - Rod Wipers

Hytrel 92A

REF: PEABODY GALION TELESCOPIC CYLINDERS



Temperature: -40/300F [-40/149C] **Pressure: N/A**

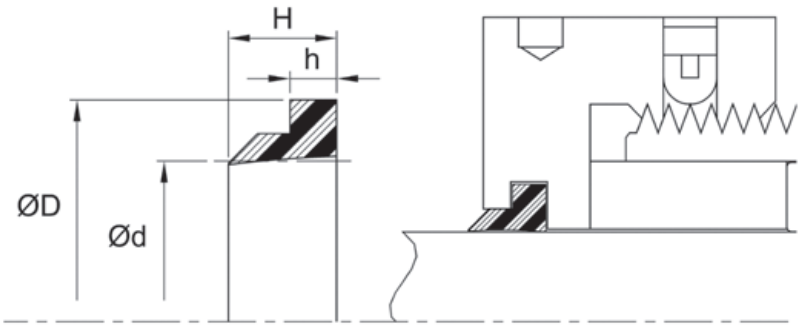
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
PG-01970W	1.970	+.000 / -.002	1.970	2.270	0.170							6.48
PG-02970W	2.970	+.000 / -.003	2.970	3.270	0.170							8.21
PG-03970W	3.970	+.000 / -.004	3.970	4.270	0.170							10.47
PG-04970W	4.970	+.000 / -.005	4.970	5.270	0.170							11.83
PG-05970W*	5.970	+.000 / -.005	5.970	6.270	0.170							13.49
PG-06970W*	6.970	+.000 / -.005	6.970	7.270	0.170							14.77
PG-07970W*	7.970	+.000 / -.005	7.970	8.270	0.170							16.20
PG-09125W*	9.125	+.000 / -.005	9.125	9.465	0.170							19.37

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

PC - Rod Wipers

Hytrel 92A

REF: PERFECTION COBEY TELESCOPIC CYLINDERS



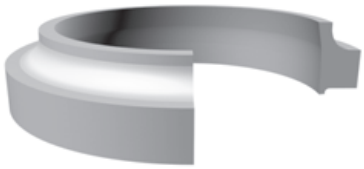
Temperature: -40/300F [-40/149C] **Pressure: N/A**

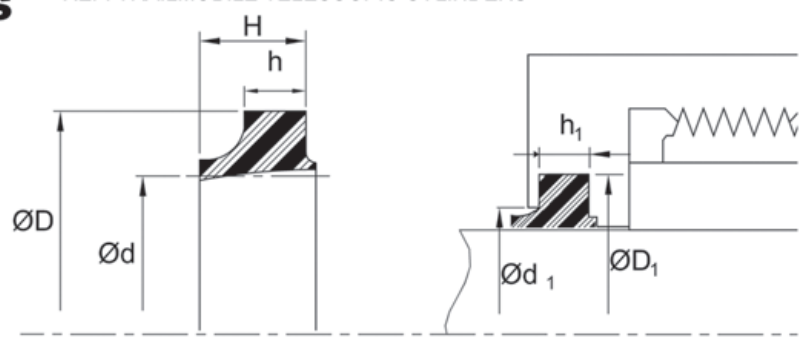
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
PC-02580W	2.580	+.000 / -.003	2.580	2.980	0.190							7.85
PC-03580W*	3.580	+.000 / -.004	3.580	3.980	0.190							9.06
PC-04580W*	4.580	+.000 / -.005	4.580	5.080	0.190							10.47
PC-05445W	5.445	+.000 / -.005	5.445	5.945	0.190							11.39
PC-06445W	6.445	+.000 / -.005	6.445	6.945	0.190							13.37
PC-07445W*	7.445	+.000 / -.005	7.445	7.945	0.190							14.29
PC-08445W*	8.445	+.000 / -.005	8.445	8.945	0.190							16.34

TRA - Rod Wipers

Hytrel 92A

REF: TRAILMOBILE TELESCOPIC CYLINDERS





Temperature: -40/300F [-40/149C] **Pressure: N/A**

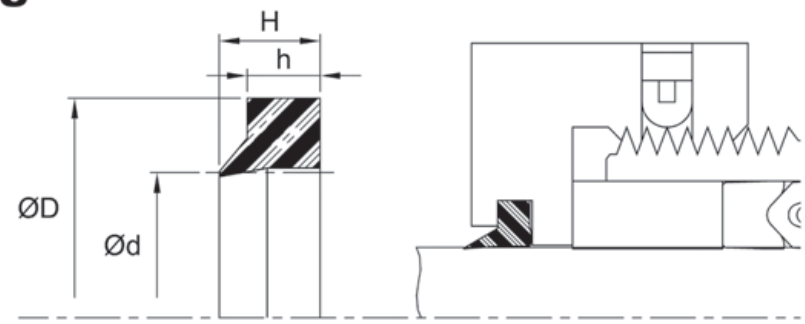
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
TRA-03375W	3.375	+.000 / -.004	3.375	3.750	0.165							6.93
TRA-04250W*	4.250	+.000 / -.005	4.250	4.625	0.165							7.22
TRA-05125W*	5.125	+.000 / -.005	5.125	5.500	0.165							8.84
TRA-06000W	6.000	+.000 / -.005	6.000	6.375	0.165							10.61
TRA-07000W	7.000	+.000 / -.005	7.000	7.375	0.165							15.92
TRA-08000W*	8.000	+.000 / -.005	8.000	8.375	0.165							17.34
TRA-08250W*	8.250	+.000 / -.005	8.250	8.625	0.165							29.72
TRA-09625W*	9.625	+.000 / -.005	9.625	10.000	0.165							33.47

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

WAR - Rod Wipers

Polyurethane AU 90A

REF: WARD TELESCOPIC CYLINDERS

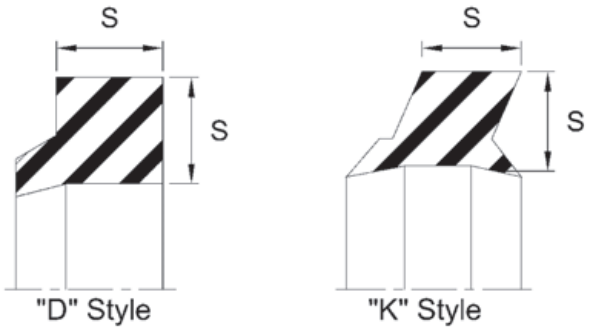


Temperature: -40/189F [-40/87C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
WAR-02950W*	2.950	+.000 / -.003	2.950	3.325	0.195							5.38
WAR-03950W	3.950	+.000 / -.004	3.950	4.325	0.195							6.86
WAR-04950W	4.950	+.000 / -.005	4.950	5.325	0.195							9.91
WAR-05950W	5.950	+.000 / -.005	5.950	6.325	0.195							11.82
WAR-06950W*	6.950	+.000 / -.005	6.950	7.325	0.195							15.14
WAR-07950W*	7.950	+.000 / -.005	7.950	8.325	0.195							16.77
WAR-08950W*	8.950	+.000 / -.005	8.950	9.325	0.195							31.84

D & K WIPER CORD

Nitrile 85A



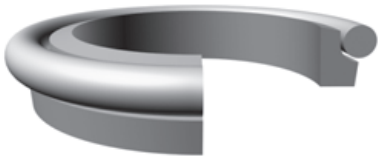
Temperature: -30/250F [-34/121C] **Pressure: N/A**

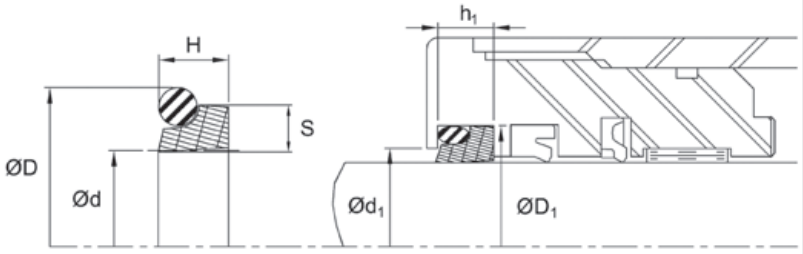
Ref.Number	Rod Diameter	Nominal Seal Dimensions		Housing Dimensions	$ Per
	Tol.	S	Tol.		Foot
WC-00187D		0.187	+.013/-.013		4.65
WC-00250D		0.250	+.016/-.016		9.11
WC-00187K		0.187	+.013/-.013		2.27
WC-00250K		0.250	+.016/-.016		2.48

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

EX1 - Rod Wipers

40% BR.PTFE/Nitrile





Temperature: -30/250F [-34/121C] **Pressure: N/A**

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				0.356	+.000/-.005	0.436	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00312*	0.312	+.000 / -.002				0.418	+.000/-.005	0.498	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00375*	0.375	+.000 / -.002				0.481	+.000/-.005	0.561	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00437*	0.437	+.000 / -.002				0.543	+.000/-.005	0.623	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00500*	0.500	+.000 / -.002				0.637	+.000/-.005	0.766	+.002 / -.000	0.195	+.005 / -.000	21.61
EX1-00500LD*	0.500	+.000 / -.002				0.606	+.000/-.005	0.686	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00562*	0.562	+.000 / -.002				0.699	+.000/-.005	0.828	+.002 / -.000	0.195	+.005 / -.000	21.61
EX1-00562LD*	0.562	+.000 / -.002				0.668	+.000/-.005	0.748	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00625*	0.625	+.000 / -.002				0.762	+.000/-.005	0.891	+.002 / -.000	0.195	+.005 / -.000	21.61
EX1-00625LD*	0.625	+.000 / -.002				0.731	+.000/-.005	0.811	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00687*	0.687	+.000 / -.002				0.824	+.000/-.005	0.953	+.002 / -.000	0.195	+.005 / -.000	21.61
EX1-00687LD*	0.687	+.000 / -.002				0.793	+.000/-.005	0.873	+.002 / -.000	0.144	+.005 / -.000	21.61
EX1-00750*	0.750	+.000 / -.002				0.887	+.000/-.005	1.016	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-00750LD*	0.750	+.000 / -.002				0.856	+.000/-.005	0.936	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-00812*	0.812	+.000 / -.002				0.949	+.000/-.005	1.078	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-00812LD*	0.812	+.000 / -.002				0.918	+.000/-.005	0.998	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-00875*	0.875	+.000 / -.002				1.012	+.000/-.005	1.141	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-00875LD*	0.875	+.000 / -.002				0.981	+.000/-.005	1.061	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-00937*	0.937	+.000 / -.002				1.074	+.000/-.005	1.203	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-00937LD*	0.937	+.000 / -.002				1.043	+.000/-.005	1.123	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-01000	1.000	+.000 / -.002				1.137	+.000/-.005	1.266	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-01000LD*	1.000	+.000 / -.002				1.106	+.000/-.005	1.186	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-01062*	1.062	+.000 / -.002				1.199	+.000/-.005	1.328	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-01062LD*	1.062	+.000 / -.002				1.168	+.000/-.005	1.248	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-01125*	1.125	+.000 / -.002				1.262	+.000/-.005	1.391	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-01125LD*	1.125	+.000 / -.002				1.231	+.000/-.005	1.311	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-01187*	1.187	+.000 / -.002				1.324	+.000/-.005	1.453	+.002 / -.000	0.195	+.005 / -.000	28.50
EX1-01187LD*	1.187	+.000 / -.002				1.293	+.000/-.005	1.373	+.002 / -.000	0.144	+.005 / -.000	28.50
EX1-01250*	1.250	+.000 / -.002				1.387	+.000/-.005	1.516	+.002 / -.000	0.195	+.005 / -.000	32.37
EX1-01250LD*	1.250	+.000 / -.002				1.356	+.000/-.005	1.436	+.002 / -.000	0.144	+.005 / -.000	32.37
EX1-01312*	1.312	+.000 / -.002				1.449	+.000/-.005	1.578	+.002 / -.000	0.195	+.005 / -.000	32.37
EX1-01312LD*	1.312	+.000 / -.002				1.418	+.000/-.005	1.498	+.002 / -.000	0.144	+.005 / -.000	32.37
EX1-01375	1.375	+.000 / -.002				1.512	+.000/-.005	1.641	+.002 / -.000	0.195	+.005 / -.000	32.37
EX1-01375LD*	1.375	+.000 / -.002				1.481	+.000/-.005	1.561	+.002 / -.000	0.144	+.005 / -.000	32.37
EX1-01437*	1.437	+.000 / -.002				1.574	+.000/-.005	1.703	+.002 / -.000	0.195	+.005 / -.000	32.37
EX1-01437LD*	1.437	+.000 / -.002				1.543	+.000/-.005	1.623	+.002 / -.000	0.144	+.005 / -.000	32.37
EX1-01500*	1.500	+.000 / -.002				1.637	+.000/-.005	1.766	+.002 / -.000	0.195	+.005 / -.000	32.37
EX1-01500LD*	1.500	+.000 / -.002				1.606	+.000/-.005	1.686	+.002 / -.000	0.144	+.005 / -.000	32.37

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

EX1 SERIES - 40% BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX1-01625*	1.625	+.000 / -.002				1.762	+.000/-.005	1.891	+.002 / -.000	0.195	+.005 / -.000	32.37
EX1-01625LD*	1.625	+.000 / -.002				1.731	+.000/-.005	1.811	+.002 / -.000	0.144	+.005 / -.000	32.37
EX1-01750	1.750	+.000 / -.002				1.887	+.000/-.005	2.016	+.002 / -.000	0.195	+.005 / -.000	36.12
EX1-01750LD*	1.750	+.000 / -.002				1.856	+.000/-.005	1.936	+.002 / -.000	0.144	+.005 / -.000	36.12
EX1-01875*	1.875	+.000 / -.002				2.012	+.000/-.005	2.141	+.002 / -.000	0.195	+.005 / -.000	36.12
EX1-01875LD*	1.875	+.000 / -.002				1.981	+.000/-.005	2.061	+.002 / -.000	0.144	+.005 / -.000	36.12
EX1-02000	2.000	+.000 / -.002				2.137	+.000/-.005	2.266	+.002 / -.000	0.195	+.005 / -.000	36.12
EX1-02000LD*	2.000	+.000 / -.002				2.106	+.000/-.005	2.187	+.002 / -.000	0.144	+.005 / -.000	36.12
EX1-02125*	2.125	+.000 / -.002				2.262	+.000/-.005	2.391	+.002 / -.000	0.195	+.005 / -.000	36.12
EX1-02125LD*	2.125	+.000 / -.002				2.231	+.000/-.005	2.311	+.002 / -.000	0.144	+.005 / -.000	36.12
EX1-02250*	2.250	+.000 / -.002				2.387	+.000/-.005	2.516	+.002 / -.000	0.195	+.005 / -.000	39.98
EX1-02250LD*	2.250	+.000 / -.002				2.356	+.000/-.005	2.436	+.002 / -.000	0.144	+.005 / -.000	39.98
EX1-02375*	2.375	+.000 / -.002				2.512	+.000/-.005	2.641	+.002 / -.000	0.195	+.005 / -.000	39.98
EX1-02375LD*	2.375	+.000 / -.002				2.481	+.000/-.005	2.561	+.002 / -.000	0.144	+.005 / -.000	39.98
EX1-02500*	2.500	+.000 / -.002				2.637	+.000/-.005	2.766	+.002 / -.000	0.195	+.005 / -.000	39.98
EX1-02500LD*	2.500	+.000 / -.002				2.606	+.000/-.005	2.686	+.002 / -.000	0.144	+.005 / -.000	39.98
EX1-02625*	2.625	+.000 / -.002				2.782	+.000/-.005	2.971	+.002 / -.000	0.240	+.005 / -.000	39.98
EX1-02750	2.750	+.000 / -.002				2.907	+.000/-.005	3.096	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-02875*	2.875	+.000 / -.002				3.032	+.000/-.005	3.221	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03000	3.000	+.000 / -.003				3.157	+.000/-.005	3.345	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03125*	3.125	+.000 / -.003				3.282	+.000/-.005	3.470	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03250*	3.250	+.000 / -.003				3.407	+.000/-.005	3.595	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03375	3.375	+.000 / -.003				3.532	+.000/-.005	3.720	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03500	3.500	+.000 / -.003				3.657	+.000/-.005	3.845	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03625	3.625	+.000 / -.003				3.782	+.000/-.005	3.970	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03750*	3.750	+.000 / -.003				3.907	+.000/-.005	4.095	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-03875*	3.875	+.000 / -.003				4.032	+.000/-.005	4.220	+.002 / -.000	0.240	+.005 / -.000	44.05
EX1-04000	4.000	+.000 / -.005				4.157	+.000/-.005	4.345	+.002 / -.000	0.240	+.005 / -.000	53.04
EX1-04125*	4.125	+.000 / -.005				4.282	+.000/-.005	4.470	+.002 / -.000	0.240	+.005 / -.000	53.04
EX1-04250	4.250	+.000 / -.005				4.407	+.000/-.005	4.595	+.002 / -.000	0.240	+.005 / -.000	53.04
EX1-04375*	4.375	+.000 / -.005				4.532	+.000/-.005	4.720	+.002 / -.000	0.240	+.005 / -.000	53.04
EX1-04500*	4.500	+.000 / -.005				4.657	+.000/-.005	4.845	+.003 / -.000	0.240	+.005 / -.000	53.04
EX1-04625*	4.625	+.000 / -.005				4.782	+.000/-.005	4.970	+.003 / -.000	0.240	+.005 / -.000	53.04
EX1-04750*	4.750	+.000 / -.005				4.907	+.000/-.005	5.095	+.003 / -.000	0.240	+.005 / -.000	53.04
EX1-04875*	4.875	+.000 / -.005				5.032	+.000/-.005	5.220	+.003 / -.000	0.240	+.005 / -.000	53.04
EX1-05000	5.000	+.000 / -.005				5.157	+.000/-.005	5.345	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-05125*	5.125	+.000 / -.005				5.282	+.000/-.005	5.470	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-05250	5.250	+.000 / -.005				5.407	+.000/-.005	5.595	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-05375*	5.375	+.000 / -.005				5.532	+.000/-.005	5.720	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-05500	5.500	+.000 / -.005				5.657	+.000/-.005	5.845	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-05625*	5.625	+.000 / -.005				5.782	+.000/-.005	5.970	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-05750*	5.750	+.000 / -.005				5.907	+.000/-.005	6.095	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-05875*	5.875	+.000 / -.005				6.032	+.000/-.005	6.220	+.003 / -.000	0.240	+.005 / -.000	64.72
EX1-06000	6.000	+.000 / -.005				6.157	+.000/-.005	6.345	+.003 / -.000	0.240	+.005 / -.000	72.40
EX1-06250*	6.250	+.000 / -.005				6.407	+.000/-.005	6.595	+.003 / -.000	0.240	+.005 / -.000	72.40
EX1-06500*	6.500	+.000 / -.005				6.657	+.000/-.005	6.845	+.003 / -.000	0.240	+.005 / -.000	72.40
EX1-06750*	6.750	+.000 / -.005				6.907	+.000/-.005	7.095	+.003 / -.000	0.240	+.005 / -.000	72.40
EX1-07000	7.000	+.000 / -.005				7.157	+.000/-.005	7.345	+.003 / -.000	0.240	+.005 / -.000	88.73

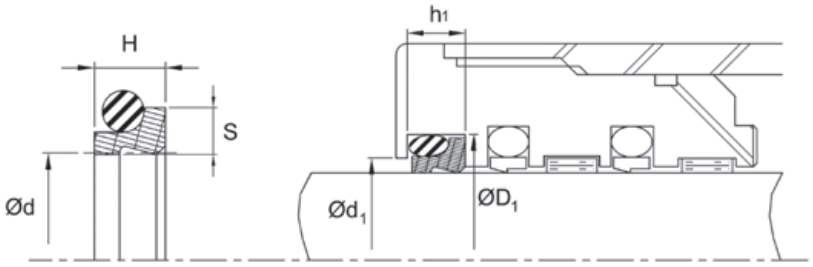
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

EX1 SERIES - 40% BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX1-07250*	7.250	+.000 / -.005				7.407	+.000/-.005	7.595	+.003 / -.000	0.240	+.005 / -.000	88.73
EX1-07500*	7.500	+.000 / -.005				7.657	+.000/-.005	7.845	+.003 / -.000	0.240	+.005 / -.000	88.73
EX1-07750*	7.750	+.000 / -.005				7.907	+.000/-.005	8.045	+.003 / -.000	0.240	+.005 / -.000	88.73
EX1-08000*	8.000	+.000 / -.005				8.157	+.000/-.005	8.345	+.005 / -.000	0.240	+.005 / -.000	94.11
EX1-08500*	8.500	+.000 / -.005				8.657	+.000/-.005	8.845	+.005 / -.000	0.240	+.005 / -.000	94.11
EX1-09000*	9.000	+.000 / -.005				9.157	+.000/-.005	9.345	+.005 / -.000	0.240	+.005 / -.000	106.22
EX1-09500*	9.500	+.000 / -.005				9.657	+.000/-.005	9.845	+.005 / -.000	0.240	+.005 / -.000	106.22
EX1-10000*	10.000	+.000 / -.005				10.157	+.000/-.005	10.345	+.005 / -.000	0.240	+.005 / -.000	138.54

EX2 - Rod Wipers

40% BR.PTFE/Nitrile



Temperature: -30/250F [-34/121C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX2-00312*	0.312	+.000 / -.001				0.373	+.004 / -.000	0.503	+.001 / -.000	0.146	+.008 /-.000	21.61
EX2-00375*	0.375	+.000 / -.001				0.435	+.004 / -.000	0.565	+.001 / -.000	0.146	+.008 /-.000	21.61
EX2-00437*	0.437	+.000 / -.002				0.497	+.004 / -.000	0.628	+.002 / -.000	0.146	+.008 /-.000	21.61
EX2-00500*	0.500	+.000 / -.002				0.560	+.004 / -.000	0.690	+.002 / -.000	0.146	+.008 /-.000	21.61
EX2-00500HD*	0.500	+.000 / -.002				0.560	+.004 / -.000	0.770	+.002 / -.000	0.196	+.008 /-.000	21.61
EX2-00562*	0.562	+.000 / -.002				0.622	+.004 / -.000	0.753	+.002 / -.000	0.146	+.008 /-.000	21.61
EX2-00562HD*	0.562	+.000 / -.002				0.622	+.004 / -.000	0.833	+.002 / -.000	0.196	+.008 /-.000	21.61
EX2-00625*	0.625	+.000 / -.002				0.685	+.004 / -.000	0.815	+.002 / -.000	0.146	+.008 /-.000	21.61
EX2-00625HD*	0.625	+.000 / -.002				0.685	+.004 / -.000	0.895	+.002 / -.000	0.196	+.008 /-.000	21.61
EX2-00687*	0.687	+.000 / -.002				0.747	+.004 / -.000	0.878	+.002 / -.000	0.146	+.008 /-.000	21.61
EX2-00687HD*	0.687	+.000 / -.002				0.747	+.004 / -.000	0.958	+.002 / -.000	0.196	+.008 /-.000	21.61
EX2-00750*	0.750	+.000 / -.002				0.810	+.005 / -.000	0.940	+.002 / -.000	0.146	+.008 /-.000	21.61
EX2-00750HD*	0.750	+.000 / -.002				0.810	+.005 / -.000	1.020	+.002 / -.000	0.196	+.008 /-.000	21.61
EX2-00812*	0.812	+.000 / -.002				0.872	+.005 / -.000	1.003	+.002 / -.000	0.146	+.008 /-.000	28.50
EX2-00812HD*	0.812	+.000 / -.002				0.872	+.005 / -.000	1.083	+.002 / -.000	0.196	+.008 /-.000	28.50
EX2-00875	0.875	+.000 / -.002				0.935	+.005 / -.000	1.065	+.002 / -.000	0.146	+.008 /-.000	28.50
EX2-00875HD*	0.875	+.000 / -.002				0.935	+.005 / -.000	1.145	+.002 / -.000	0.196	+.008 /-.000	28.50
EX2-00937*	0.937	+.000 / -.002				0.997	+.005 / -.000	1.128	+.002 / -.000	0.146	+.008 /-.000	28.50
EX2-00937HD*	0.937	+.000 / -.002				0.997	+.005 / -.000	1.208	+.002 / -.000	0.196	+.008 /-.000	28.50
EX2-01000	1.000	+.000 / -.002				1.060	+.005 / -.000	1.190	+.002 / -.000	0.146	+.008 /-.000	32.37
EX2-01000HD	1.000	+.000 / -.002				1.060	+.005 / -.000	1.270	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01062*	1.062	+.000 / -.002				1.122	+.005 / -.000	1.333	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01125*	1.125	+.000 / -.002				1.185	+.005 / -.000	1.395	+.002 / -.000	0.196	+.008 /-.000	32.37

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

EX2 SERIES - 40% BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX2-01187*	1.187	+.000 / -.002				1.247	+.006 / -.000	1.458	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01250*	1.250	+.000 / -.002				1.310	+.006 / -.000	1.520	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01312*	1.312	+.000 / -.002				1.372	+.006 / -.000	1.583	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01375	1.375	+.000 / -.002				1.435	+.006 / -.000	1.645	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01437*	1.437	+.000 / -.002				1.497	+.006 / -.000	1.708	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01500	1.500	+.000 / -.002				1.560	+.006 / -.000	1.770	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01562*	1.562	+.000 / -.002				1.622	+.006 / -.000	1.833	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01625*	1.625	+.000 / -.002				1.685	+.006 / -.000	1.895	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01687*	1.687	+.000 / -.002				1.747	+.006 / -.000	1.958	+.002 / -.000	0.196	+.008 /-.000	32.37
EX2-01750	1.750	+.000 / -.002				1.810	+.006 / -.000	2.020	+.002 / -.000	0.196	+.008 /-.000	36.12
EX2-01812*	1.812	+.000 / -.002				1.872	+.006 / -.000	2.083	+.002 / -.000	0.196	+.008 /-.000	36.12
EX2-01875*	1.875	+.000 / -.002				1.935	+.006 / -.000	2.145	+.002 / -.000	0.196	+.008 /-.000	36.12
EX2-01937*	1.937	+.000 / -.002				1.997	+.006 / -.000	2.208	+.002 / -.000	0.196	+.008 /-.000	36.12
EX2-02000*	2.000	+.000 / -.003				2.060	+.007 / -.000	2.270	+.003 / - .000	0.196	+.008 /-.000	36.12
EX2-02125	2.125	+.000 / -.003				2.185	+.007 / -.000	2.395	+.003 / - .000	0.196	+.008 /-.000	36.12
EX2-02250	2.250	+.000 / -.003				2.310	+.007 / -.000	2.520	+.003 / - .000	0.196	+.008 /-.000	40.09
EX2-02375*	2.375	+.000 / -.003				2.435	+.007 / -.000	2.645	+.003 / - .000	0.196	+.008 /-.000	40.09
EX2-02500	2.500	+.000 / -.003				2.560	+.007 / -.000	2.770	+.003 / - .000	0.196	+.008 /-.000	40.09
EX2-02625*	2.625	+.000 / -.003				2.685	+.007 / -.000	2.895	+.003 / - .000	0.196	+.008 /-.000	40.09
EX2-02750	2.750	+.000 / -.003				2.810	+.007 / -.000	3.020	+.003 / - .000	0.196	+.008 /-.000	43.89
EX2-02875*	2.875	+.000 / -.003				2.935	+.007 / -.000	3.145	+.003 / - .000	0.196	+.008 /-.000	43.89
EX2-03000	3.000	+.000 / -.003				3.060	+.007 / -.000	3.270	+.003 / - .000	0.196	+.008 /-.000	43.89
EX2-03125*	3.125	+.000 / -.003				3.185	+.007 / -.000	3.395	+.003 / - .000	0.196	+.008 /-.000	43.89
EX2-03250*	3.250	+.000 / -.003				3.310	+.009 / -.000	3.520	+.003 / - .000	0.196	+.008 /-.000	44.14
EX2-03375*	3.375	+.000 / -.003				3.435	+.009 / -.000	3.645	+.003 / - .000	0.196	+.008 /-.000	44.14
EX2-03500*	3.500	+.000 / -.003				3.560	+.009 / -.000	3.770	+.003 / - .000	0.196	+.008 /-.000	44.14
EX2-03625*	3.625	+.000 / -.003				3.685	+.009 / -.000	3.895	+.003 / - .000	0.196	+.008 /-.000	44.14
EX2-03750*	3.750	+.000 / -.003				3.810	+.009 / -.000	4.020	+.003 / - .000	0.196	+.008 /-.000	48.10
EX2-03875*	3.875	+.000 / -.003				3.935	+.009 / -.000	4.145	+.003 / - .000	0.196	+.008 /-.000	48.10
EX2-04000	4.000	+.000 / -.003				4.060	+.009 / -.000	4.270	+.003 / - .000	0.196	+.008 /-.000	48.10
EX2-04125*	4.125	+.000 / -.003				4.185	+.009 / -.000	4.395	+.003 / - .000	0.196	+.008 /-.000	48.10
EX2-04250*	4.250	+.000 / -.003				4.310	+.009 / -.000	4.520	+.003 / - .000	0.196	+.008 /-.000	53.34
EX2-04375*	4.375	+.000 / -.003				4.435	+.009 / -.000	4.645	+.003 / - .000	0.196	+.008 /-.000	53.34
EX2-04500	4.500	+.000 / -.003				4.560	+.009 / -.000	4.770	+.003 / - .000	0.196	+.008 /-.000	53.34
EX2-04625*	4.625	+.000 / -.003				4.685	+.009 / -.000	4.895	+.003 / - .000	0.196	+.008 /-.000	53.34
EX2-04750*	4.750	+.000 / -.004				4.810	+.010 / -.000	5.020	+.004 / -.000	0.196	+.008 /-.000	56.81
EX2-04875*	4.875	+.000 / -.004				4.935	+.010 / -.000	5.145	+.004 / -.000	0.196	+.008 /-.000	56.81
EX2-05000*	5.000	+.000 / -.004				5.060	+.010 / -.000	5.270	+.004 / -.000	0.196	+.008 /-.000	56.81
EX2-05125*	5.125	+.000 / -.004				5.185	+.010 / -.000	5.395	+.004 / -.000	0.196	+.008 /-.000	56.81
EX2-05250*	5.250	+.000 / -.004				5.310	+.010 / -.000	5.520	+.004 / -.000	0.196	+.008 /-.000	64.48
EX2-05375*	5.375	+.000 / -.004				5.435	+.010 / -.000	5.645	+.004 / -.000	0.196	+.008 /-.000	64.48
EX2-05500*	5.500	+.000 / -.004				5.560	+.010 / -.000	5.770	+.004 / -.000	0.196	+.008 /-.000	64.48
EX2-05625*	5.625	+.000 / -.004				5.685	+.010 / -.000	5.895	+.004 / -.000	0.196	+.008 /-.000	64.48
EX2-05750*	5.750	+.000 / -.004				5.810	+.010 / -.000	6.020	+.004 / -.000	0.196	+.008 /-.000	68.34
EX2-06000*	6.000	+.000 / -.004				6.060	+.010 / -.000	6.270	+.004 / -.000	0.196	+.008 /-.000	76.02
EX2-06000HD*	6.000	+.000 / -.004				6.060	+.010 / -.000	6.345	+.004 / -.000	0.236	+.008 /-.000	76.02
EX2-06250*	6.250	+.000 / -.004				6.310	+.010 / -.000	6.595	+.004 / -.000	0.236	+.008 /-.000	79.79
EX2-06500	6.500	+.000 / -.004				6.560	+.010 / -.000	6.845	+.004 / -.000	0.236	+.008 /-.000	79.79
EX2-06750*	6.750	+.000 / -.004				6.810	+.010 / -.000	7.095	+.004 / -.000	0.236	+.008 /-.000	79.79

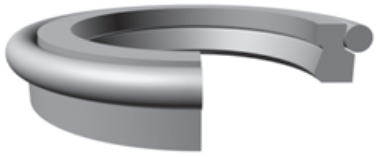
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

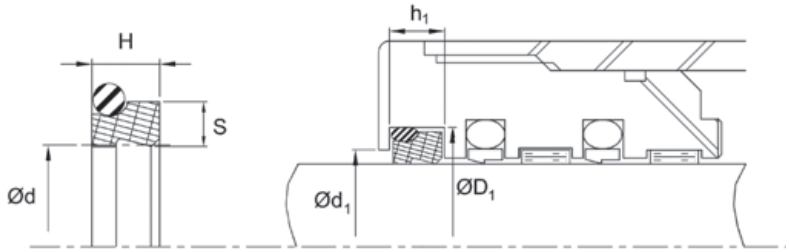
EX2 SERIES - 40% BR.PTFE/NBR

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX2-07000*	7.000	+.000 / -.004				7.060	+.010 / -.000	7.345	+.004 / -.000	0.236	+.008 /-.000	79.79
EX2-07250	7.250	+.000 / -.005				7.310	+.011 / -.000	7.595	+.005 / -.000	0.236	+.008 /-.000	88.83
EX2-07500*	7.500	+.000 / -.005				7.560	+.011 / -.000	7.845	+.005 / -.000	0.236	+.008 /-.000	88.83
EX2-07750*	7.750	+.000 / -.005				7.810	+.011 / -.000	8.095	+.005 / -.000	0.236	+.008 /-.000	92.78
EX2-08000	8.000	+.000 / -.005				8.060	+.011 / -.000	8.345	+.005 / -.000	0.236	+.008 /-.000	92.78
EX2-08250*	8.250	+.000 / -.005				8.310	+.011 / -.000	8.595	+.005 / -.000	0.236	+.008 /-.000	94.11
EX2-08500*	8.500	+.000 / -.005				8.560	+.011 / -.000	8.845	+.005 / -.000	0.236	+.008 /-.000	94.11
EX2-08750*	8.750	+.000 / -.005				8.810	+.011 / -.000	9.095	+.005 / -.000	0.236	+.008 /-.000	101.82
EX2-09000*	9.000	+.000 / -.005				9.060	+.011 / -.000	9.345	+.005 / -.000	0.236	+.008 /-.000	101.82
EX2-09250*	9.250	+.000 / -.005				9.310	+.011 / -.000	9.595	+.005 / -.000	0.236	+.008 /-.000	105.70
EX2-09500*	9.500	+.000 / -.005				9.560	+.011 / -.000	9.845	+.005 / -.000	0.236	+.008 /-.000	105.70
EX2-09750*	9.750	+.000 / -.005				9.810	+.011 / -.000	10.095	+.005 / -.000	0.236	+.008 /-.000	109.56
EX2-10000*	10.000	+.000 / -.005				10.060	+.013 / -.000	10.345	+.005 / -.000	0.236	+.008 /-.000	138.54
EX2-10000HD*	10.000	+.000 / -.005				10.080	+.013 / -.000	10.480	+.005 / -.000	0.332	+.008 /-.000	138.54

EX5 - Rod Wipers

40% BR.PTFE/Nitrile





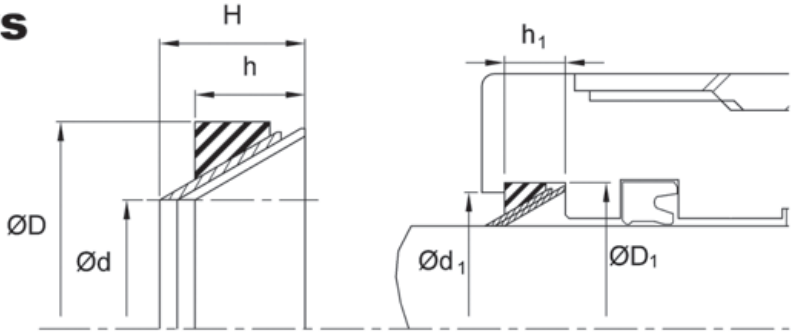
Temperature: -30/250F [-34/121C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
EX5-01500	1.500	+.000 / -.002				1.560	+.006 / -.000	1.846	+.002 / -.000	0.248	+.008 /-.000	35.08
EX5-02000*	2.000	+.000 / -.003				2.060	+.007 / -.000	2.346	+.003 / -.000	0.248	+.008 /-.000	39.17
EX5-02500	2.500	+.000 / -.003				2.560	+.007 / -.000	2.846	+.003 / -.000	0.248	+.008 /-.000	43.46
EX5-03000	3.000	+.000 / -.003				3.080	+.007 / -.000	3.480	+.003 / -.000	0.319	+.008 /-.000	47.60
EX5-03500	3.500	+.000 / -.003				3.580	+.009 / -.000	3.980	+.003 / -.000	0.319	+.008 /-.000	47.86
EX5-04000	4.000	+.000 / -.003				4.080	+.009 / -.000	4.480	+.003 / -.000	0.319	+.008 /-.000	52.15
EX5-04500*	4.500	+.000 / -.003				4.580	+.009 / -.000	4.980	+.004 / -.000	0.319	+.008 /-.000	57.83
EX5-05000*	5.000	+.000 / -.004				5.080	+.010 / -.000	5.480	+.004 / -.000	0.319	+.008 /-.000	61.58
EX5-05500	5.500	+.000 / -.004				5.600	+.010 / -.000	6.130	+.004 / -.000	0.374	+.008 /-.000	69.87
EX5-06000	6.000	+.000 / -.004				6.100	+.010 / -.000	6.630	+.004 / -.000	0.374	+.008 /-.000	82.41
EX5-06500*	6.500	+.000 / -.004				6.600	+.010 / -.000	7.130	+.005 / -.000	0.374	+.008 /-.000	86.50
EX5-07000	7.000	+.000 / -.004				7.100	+.011 / -.000	7.630	+.005 / -.000	0.374	+.008 /-.000	86.50
EX5-08000	8.000	+.000 / -.005				8.100	+.011 / -.000	8.630	+.005 / -.000	0.374	+.008 /-.000	100.60
EX5-09000*	9.000	+.000 / -.005				9.100	+.011 / -.000	9.630	+.005 / -.000	0.374	+.008 /-.000	110.40
EX5-10000*	10.000	+.000 / -.005				10.100	+.013 / -.000	10.630	+.005 / -.000	0.374	+.008 /-.000	150.21
EX5-15500*	15.500	+.000 / -.005				15.600	+.013 / -.000	16.130	+.005 / -.000	0.374	+.008 /-.000	380.83
EX5-20000*	20.000	+.000 / -.005				20.100	+.013 / -.000	20.944	+.005 / -.000	0.551	+.008 /-.000	492.71

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

BW/S - Rod Wipers

Brass/Nitrile
Brass/FPM



NBR Temperature: -40/250F [-40/121C]
FPM Temperature: -20/400F [-28/204C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-00250S/5*	0.250	+.001 / -.002				0.464	+.000 / -.010	0.500	+.003 / -.003	0.125	+.003 / -.001	18.13
BW-00312S/5*	0.312	+.001 / -.002				0.526	+.000 / -.010	0.562	+.003 / -.003	0.125	+.003 / -.001	18.43
BW-00375S/5*	0.375	+.001 / -.002				0.589	+.000 / -.010	0.625	+.003 / -.003	0.125	+.003 / -.001	18.52
BW-00437S/5*	0.437	+.001 / -.002				0.651	+.000 / -.010	0.687	+.003 / -.003	0.125	+.003 / -.001	19.03
BW-00500S/5	0.500	+.001 / -.002				0.714	+.000 / -.010	0.750	+.003 / -.003	0.125	+.003 / -.001	19.41
BW-00562S/5*	0.562	+.001 / -.002				0.776	+.000 / -.010	0.812	+.003 / -.003	0.125	+.003 / -.001	19.41
BW-00625S/5	0.625	+.001 / -.002				0.839	+.000 / -.010	0.875	+.003 / -.003	0.125	+.003 / -.001	19.50
BW-00687S/5*	0.687	+.001 / -.002				0.901	+.000 / -.010	0.937	+.003 / -.003	0.125	+.003 / -.001	19.64
BW-00750S/5*	0.750	+.001 / -.002				0.964	+.000 / -.010	1.000	+.003 / -.003	0.125	+.003 / -.001	19.70
BW-00750S/6	0.750	+.001 / -.002				1.082	+.000 / -.010	1.125	+.003 / -.003	0.188	+.003 / -.001	19.77
BW-00812S/5*	0.812	+.001 / -.002				1.026	+.000 / -.010	1.062	+.003 / -.003	0.125	+.003 / -.001	19.94
BW-00812S/6*	0.812	+.001 / -.002				1.144	+.000 / -.010	1.187	+.003 / -.003	0.188	+.003 / -.001	20.04
BW-00875S/5*	0.875	+.001 / -.002				1.089	+.000 / -.010	1.125	+.003 / -.003	0.125	+.003 / -.001	20.55
BW-00875S/6*	0.875	+.001 / -.002				1.207	+.000 / -.010	1.250	+.003 / -.003	0.188	+.003 / -.001	20.60
BW-00937S/5*	0.937	+.001 / -.002				1.151	+.000 / -.010	1.187	+.003 / -.003	0.125	+.003 / -.001	20.85
BW-00937S/6*	0.937	+.001 / -.002				1.269	+.000 / -.010	1.312	+.003 / -.003	0.188	+.003 / -.001	21.03
BW-01000S/5*	1.000	+.001 / -.002				1.214	+.000 / -.010	1.250	+.003 / -.003	0.125	+.003 / -.001	21.56
BW-01000S/6	1.000	+.001 / -.002				1.332	+.000 / -.010	1.375	+.003 / -.003	0.188	+.003 / -.001	21.62
BW-01000S/6V	1.000	+.001 / -.002				1.332	+.000 / -.010	1.375	+.003 / -.003	0.188	+.003 / -.001	32.59
BW-01062S/6*	1.062	+.001 / -.002				1.394	+.000 / -.010	1.437	+.003 / -.003	0.188	+.003 / -.001	22.96
BW-01125S/5*	1.125	+.001 / -.002				1.339	+.000 / -.010	1.375	+.003 / -.003	0.125	+.003 / -.001	24.03
BW-01125S/6	1.125	+.001 / -.002				1.457	+.000 / -.010	1.500	+.003 / -.003	0.188	+.003 / -.001	24.31
BW-01187S/6*	1.187	+.001 / -.002				1.519	+.000 / -.010	1.562	+.003 / -.003	0.188	+.003 / -.001	25.90
BW-01250S/5*	1.250	+.001 / -.002				1.464	+.000 / -.010	1.500	+.003 / -.003	0.125	+.003 / -.001	26.61
BW-01250S/6	1.250	+.001 / -.002				1.582	+.000 / -.010	1.625	+.003 / -.003	0.188	+.003 / -.001	26.98
BW-01312S/6*	1.312	+.001 / -.002				1.644	+.000 / -.010	1.687	+.003 / -.003	0.188	+.003 / -.001	27.77
BW-01375S/6	1.375	+.001 / -.002				1.707	+.000 / -.010	1.750	+.003 / -.003	0.188	+.003 / -.001	28.68
BW-01375S/6V	1.375	+.001 / -.002				1.707	+.000 / -.010	1.750	+.003 / -.003	0.188	+.003 / -.001	34.68
BW-01437S/6*	1.437	+.001 / -.002				1.769	+.000 / -.010	1.812	+.003 / -.003	0.188	+.003 / -.001	30.50
BW-01500S/6	1.500	+.001 / -.002				1.832	+.000 / -.010	1.875	+.003 / -.003	0.188	+.003 / -.001	32.39
BW-01562S/6*	1.562	+.001 / -.002				1.894	+.000 / -.010	1.937	+.003 / -.003	0.188	+.003 / -.001	33.16
BW-01625S/6*	1.625	+.001 / -.002				1.957	+.000 / -.010	2.000	+.003 / -.003	0.188	+.003 / -.001	35.02
BW-01687S/6*	1.687	+.001 / -.002				2.019	+.000 / -.010	2.062	+.003 / -.003	0.188	+.003 / -.001	37.37
BW-01750S/6	1.750	+.001 / -.002				2.082	+.000 / -.010	2.125	+.003 / -.003	0.188	+.003 / -.001	37.70
BW-01750S/6V	1.750	+.001 / -.002				2.082	+.000 / -.010	2.125	+.003 / -.003	0.188	+.003 / -.001	45.67
BW-01812S/6*	1.812	+.001 / -.002				2.144	+.000 / -.010	2.187	+.003 / -.003	0.188	+.003 / -.001	41.26
BW-01875S/6*	1.875	+.001 / -.002				2.207	+.000 / -.010	2.250	+.003 / -.003	0.188	+.003 / -.001	42.25
BW-01937S/6*	1.937	+.001 / -.002				2.269	+.000 / -.010	2.312	+.003 / -.003	0.188	+.003 / -.001	43.50

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

BW/S SERIES - BRASS/NBR & BRASS/FPM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-02000S/6	2.000	+.001 / -.002				2.332	+.000 / -.010	2.375	+.003 / -.003	0.188	+.003 / -.001	43.97
BW-02000S/7	2.000	+.001 / -.002				2.440	+.000 / -.010	2.500	+.003 / -.003	0.250	+.003 / -.001	43.99
BW-02000S/7V	2.000	+.001 / -.002				2.440	+.000 / -.010	2.500	+.003 / -.003	0.250	+.003 / -.001	49.77
BW-02062S/6*	2.062	+.001 / -.002				2.394	+.000 / -.010	2.437	+.003 / -.003	0.188	+.003 / -.001	44.71
BW-02062S/7*	2.062	+.001 / -.002				2.502	+.000 / -.010	2.562	+.003 / -.003	0.250	+.003 / -.001	45.77
BW-02125S/6*	2.125	+.001 / -.002				2.457	+.000 / -.010	2.500	+.003 / -.003	0.188	+.003 / -.001	46.14
BW-02125S/7*	2.125	+.001 / -.002				2.565	+.000 / -.010	2.625	+.003 / -.003	0.250	+.003 / -.001	47.10
BW-02187S/6*	2.187	+.001 / -.002				2.519	+.000 / -.010	2.562	+.003 / -.003	0.188	+.003 / -.001	47.17
BW-02187S/7*	2.187	+.001 / -.002				2.627	+.000 / -.010	2.687	+.003 / -.003	0.250	+.003 / -.001	48.16
BW-02250S/6*	2.250	+.001 / -.002				2.582	+.000 / -.010	2.625	+.003 / -.003	0.188	+.003 / -.001	48.75
BW-02250S/7*	2.250	+.001 / -.002				2.690	+.000 / -.010	2.750	+.003 / -.003	0.250	+.003 / -.001	49.29
BW-02312S/6*	2.312	+.001 / -.002				2.644	+.000 / -.010	2.687	+.003 / -.003	0.188	+.003 / -.001	49.80
BW-02312S/7*	2.312	+.001 / -.002				2.752	+.000 / -.010	2.812	+.003 / -.003	0.250	+.003 / -.001	50.72
BW-02375S/6*	2.375	+.001 / -.002				2.707	+.000 / -.010	2.750	+.003 / -.003	0.188	+.003 / -.001	51.70
BW-02375S/7*	2.375	+.001 / -.002				2.815	+.000 / -.010	2.875	+.003 / -.003	0.250	+.003 / -.001	52.68
BW-02437S/6*	2.437	+.001 / -.002				2.769	+.000 / -.010	2.812	+.003 / -.003	0.188	+.003 / -.001	53.16
BW-02437S/7*	2.437	+.001 / -.002				2.877	+.000 / -.010	2.937	+.003 / -.003	0.250	+.003 / -.001	54.26
BW-02500S/6	2.500	+.001 / -.002				2.832	+.000 / -.010	2.875	+.003 / -.003	0.188	+.003 / -.001	54.38
BW-02500S/6V	2.500	+.001 / -.002				2.832	+.000 / -.010	2.875	+.003 / -.003	0.188	+.003 / -.001	60.65
BW-02500S/7	2.500	+.001 / -.002				2.940	+.000 / -.010	3.000	+.003 / -.003	0.250	+.003 / -.001	54.74
BW-02500S/7V	2.500	+.001 / -.002				2.940	+.000 / -.010	3.000	+.003 / -.003	0.250	+.003 / -.001	61.85
BW-02562S/6*	2.562	+.001 / -.002				2.894	+.000 / -.010	2.937	+.003 / -.003	0.188	+.003 / -.001	55.52
BW-02562S/7*	2.562	+.001 / -.002				3.002	+.000 / -.010	3.062	+.003 / -.003	0.250	+.003 / -.001	55.82
BW-02625S/6*	2.625	+.001 / -.002				2.957	+.000 / -.010	3.000	+.003 / -.003	0.188	+.003 / -.001	57.05
BW-02625S/7*	2.625	+.001 / -.002				3.065	+.000 / -.010	3.125	+.003 / -.003	0.250	+.003 / -.001	57.45
BW-02687S/6*	2.687	+.001 / -.002				3.019	+.000 / -.010	3.062	+.003 / -.003	0.188	+.003 / -.001	58.13
BW-02687S/7*	2.687	+.001 / -.002				3.127	+.000 / -.010	3.187	+.003 / -.003	0.250	+.003 / -.001	58.66
BW-02750S/6*	2.750	+.001 / -.002				3.082	+.000 / -.010	3.125	+.003 / -.003	0.188	+.003 / -.001	59.06
BW-02750S/7	2.750	+.001 / -.002				3.190	+.000 / -.010	3.250	+.003 / -.003	0.250	+.003 / -.001	60.29
BW-02812S/6*	2.812	+.001 / -.002				3.144	+.000 / -.010	3.187	+.003 / -.003	0.188	+.003 / -.001	60.68
BW-02812S/7*	2.812	+.001 / -.002				3.252	+.000 / -.010	3.312	+.003 / -.003	0.250	+.003 / -.001	61.90
BW-02875S/6*	2.875	+.001 / -.002				3.207	+.000 / -.010	3.250	+.003 / -.003	0.188	+.003 / -.001	62.79
BW-02875S/7*	2.875	+.001 / -.002				3.315	+.000 / -.010	3.375	+.003 / -.003	0.250	+.003 / -.001	63.59
BW-02937S/6*	2.937	+.001 / -.002				3.269	+.000 / -.010	3.312	+.003 / -.003	0.188	+.003 / -.001	64.58
BW-02937S/7*	2.937	+.001 / -.002				3.377	+.000 / -.010	3.437	+.003 / -.003	0.250	+.003 / -.001	65.24
BW-03000S/6*	3.000	+.001 / -.002				3.332	+.000 / -.010	3.375	+.003 / -.003	0.188	+.003 / -.001	66.04
BW-03000S/7	3.000	+.001 / -.002				3.440	+.000 / -.010	3.500	+.003 / -.003	0.250	+.003 / -.001	66.24
BW-03000S/7V	3.000	+.001 / -.002				3.440	+.000 / -.010	3.500	+.003 / -.003	0.250	+.003 / -.001	107.57
BW-03125S/7*	3.125	+.001 / -.002				3.565	+.000 / -.010	3.625	+.003 / -.003	0.250	+.003 / -.001	67.16
BW-03250S/7*	3.250	+.001 / -.002				3.690	+.000 / -.010	3.750	+.003 / -.003	0.250	+.003 / -.001	86.25
BW-03375S/7*	3.375	+.001 / -.002				3.815	+.000 / -.010	3.875	+.003 / -.003	0.250	+.003 / -.001	92.05
BW-03500S/6	3.500	+.001 / -.002				3.832	+.000 / -.010	3.875	+.003 / -.003	0.188	+.003 / -.001	98.33
BW-03500S/7	3.500	+.001 / -.002				3.940	+.000 / -.010	4.000	+.003 / -.003	0.250	+.003 / -.001	110.43
BW-03500S/7V	3.500	+.001 / -.002				3.940	+.000 / -.010	4.000	+.003 / -.003	0.250	+.003 / -.001	132.18
BW-03625S/7*	3.625	+.001 / -.002				4.065	+.000 / -.010	4.125	+.003 / -.003	0.250	+.003 / -.001	111.94
BW-03750S/7*	3.750	+.001 / -.002				4.190	+.000 / -.010	4.250	+.003 / -.003	0.250	+.003 / -.001	115.18
BW-03875S/7*	3.875	+.001 / -.002				4.315	+.000 / -.010	4.375	+.003 / -.003	0.250	+.003 / -.001	124.72
BW-04000S/6	4.000	+.001 / -.002				4.332	+.000 / -.010	4.375	+.003 / -.003	0.188	+.003 / -.001	128.22

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

BW/S SERIES - BRASS/NBR & BRASS/FPM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-04000S/7	4.000	+.001 / -.002				4.440	+.000 / -.010	4.500	+.003 / -.003	0.250	+.003 / -.001	134.68
BW-04125S/7*	4.125	+.001 / -.002				4.565	+.000 / -.010	4.625	+.003 / -.003	0.250	+.003 / -.001	163.85
BW-04250S/7*	4.250	+.001 / -.002				4.690	+.000 / -.010	4.750	+.003 / -.003	0.250	+.003 / -.001	193.01
BW-04250S/8*	4.250	+.001 / -.002				4.910	+.000 / -.010	5.000	+.003 / -.003	0.375	+.003 / -.001	527.16
BW-04375S/7*	4.375	+.001 / -.002				4.815	+.000 / -.010	4.875	+.003 / -.003	0.250	+.003 / -.001	222.18
BW-04500S/6*	4.500	+.001 / -.002				4.832	+.000 / -.010	4.875	+.003 / -.003	0.188	+.003 / -.001	244.82
BW-04500S/7	4.500	+.001 / -.002				4.940	+.000 / -.010	5.000	+.003 / -.003	0.250	+.003 / -.001	251.28
BW-04500S/8	4.500	+.001 / -.002				5.160	+.000 / -.010	5.250	+.003 / -.003	0.375	+.003 / -.001	255.15
BW-04625S/7*	4.625	+.001 / -.002				5.065	+.000 / -.010	5.125	+.003 / -.003	0.250	+.003 / -.001	280.44
BW-04625S/8*	4.625	+.001 / -.002				5.285	+.000 / -.010	5.375	+.003 / -.003	0.375	+.003 / -.001	285.00
BW-04750S/7*	4.750	+.001 / -.002				5.190	+.000 / -.010	5.250	+.003 / -.003	0.250	+.003 / -.001	309.61
BW-04750S/8	4.750	+.001 / -.002				5.410	+.000 / -.010	5.500	+.003 / -.003	0.375	+.003 / -.001	314.78
BW-04875S/7*	4.875	+.001 / -.002				5.315	+.000 / -.010	5.375	+.003 / -.003	0.250	+.003 / -.001	338.71
BW-04875S/8*	4.875	+.001 / -.002				5.535	+.000 / -.010	5.625	+.003 / -.003	0.375	+.003 / -.001	343.88
BW-05000S/6*	5.000	+.001 / -.002				5.322	+.000 / -.010	5.375	+.003 / -.003	0.188	+.003 / -.001	361.41
BW-05000S/7	5.000	+.001 / -.002				5.440	+.000 / -.010	5.500	+.003 / -.003	0.250	+.003 / -.001	367.87
BW-05000S/8	5.000	+.001 / -.002				5.660	+.000 / -.010	5.750	+.003 / -.003	0.375	+.003 / -.001	374.33
BW-05125S/8*	5.125	+.001 / -.002				5.785	+.000 / -.010	5.875	+.003 / -.003	0.375	+.003 / -.001	389.22
BW-05250S/7*	5.250	+.001 / -.002				5.690	+.000 / -.010	5.750	+.003 / -.003	0.250	+.003 / -.001	397.65
BW-05250S/8*	5.250	+.001 / -.002				5.910	+.000 / -.010	6.000	+.003 / -.003	0.375	+.003 / -.001	404.11
BW-05375S/8	5.375	+.001 / -.002				6.035	+.000 / -.010	6.125	+.003 / -.003	0.375	+.003 / -.001	419.06
BW-05500S/6*	5.500	+.001 / -.002				5.832	+.000 / -.010	5.875	+.003 / -.003	0.188	+.003 / -.001	420.97
BW-05500S/7	5.500	+.001 / -.002				5.940	+.000 / -.010	6.000	+.003 / -.003	0.250	+.003 / -.001	431.37
BW-05500S/8	5.500	+.001 / -.002				6.160	+.000 / -.010	6.250	+.003 / -.003	0.375	+.003 / -.001	433.95
BW-05625S/8*	5.625	+.001 / -.002				6.285	+.000 / -.010	6.375	+.003 / -.003	0.375	+.003 / -.001	448.84
BW-05750S/7	5.750	+.001 / -.002				6.190	+.000 / -.010	6.250	+.003 / -.003	0.250	+.003 / -.001	457.27
BW-05750S/8	5.750	+.001 / -.002				6.410	+.000 / -.010	6.500	+.003 / -.003	0.375	+.003 / -.001	463.73
BW-05875S/8*	5.875	+.001 / -.002				6.535	+.000 / -.010	6.625	+.003 / -.003	0.375	+.003 / -.001	478.62
BW-06000S/6*	6.000	+.001 / -.002				6.332	+.000 / -.010	6.375	+.003 / -.003	0.188	+.003 / -.001	480.59
BW-06000S/7*	6.000	+.001 / -.002				6.440	+.000 / -.010	6.500	+.003 / -.003	0.250	+.003 / -.001	487.05
BW-06000S/8	6.000	+.001 / -.002				6.660	+.000 / -.010	6.750	+.003 / -.003	0.375	+.003 / -.001	493.51
BW-06000S/8V*	6.000	+.001 / -.002				6.660	+.000 / -.010	6.750	+.003 / -.003	0.375	+.003 / -.001	637.11
BW-06250S/7*	6.250	+.001 / -.002				6.690	+.000 / -.010	6.750	+.003 / -.003	0.250	+.003 / -.001	516.15
BW-06250S/8*	6.250	+.001 / -.002				6.910	+.000 / -.010	7.000	+.003 / -.003	0.375	+.003 / -.001	522.68
BW-06500S/6*	6.500	+.001 / -.002				6.832	+.000 / -.010	6.875	+.003 / -.003	0.188	+.003 / -.001	538.86
BW-06500S/7*	6.500	+.001 / -.002				6.940	+.000 / -.010	7.000	+.003 / -.003	0.250	+.003 / -.001	545.32
BW-06500S/8*	6.500	+.001 / -.002				7.160	+.000 / -.010	7.250	+.003 / -.003	0.375	+.003 / -.001	551.78
BW-06750S/7*	6.750	+.001 / -.002				7.190	+.000 / -.010	7.250	+.003 / -.003	0.250	+.003 / -.001	574.48
BW-06750S/8*	6.750	+.001 / -.002				7.410	+.000 / -.010	7.500	+.003 / -.003	0.375	+.003 / -.001	580.94
BW-07000S/6*	7.000	+.001 / -.002				7.332	+.000 / -.010	7.375	+.003 / -.003	0.188	+.003 / -.001	597.13
BW-07000S/7*	7.000	+.001 / -.002				7.440	+.000 / -.010	7.500	+.003 / -.003	0.250	+.003 / -.001	603.65
BW-07000S/8	7.000	+.001 / -.002				7.660	+.000 / -.010	7.750	+.003 / -.003	0.375	+.003 / -.001	610.11
BW-07250S/7*	7.250	+.001 / -.002				7.690	+.000 / -.010	7.750	+.003 / -.003	0.250	+.003 / -.001	632.75
BW-07250S/8*	7.250	+.001 / -.002				7.910	+.000 / -.010	8.000	+.003 / -.003	0.375	+.003 / -.001	639.21
BW-07500S/7*	7.500	+.001 / -.002				7.940	+.000 / -.010	8.000	+.003 / -.003	0.250	+.003 / -.001	661.91
BW-07500S/8*	7.500	+.001 / -.002				8.160	+.000 / -.010	8.250	+.003 / -.003	0.375	+.003 / -.001	668.37
BW-07750S/7*	7.750	+.001 / -.002				8.190	+.000 / -.010	8.250	+.003 / -.003	0.250	+.003 / -.001	691.08
BW-07750S/8*	7.750	+.001 / -.002				8.410	+.000 / -.010	8.500	+.003 / -.003	0.375	+.003 / -.001	697.54

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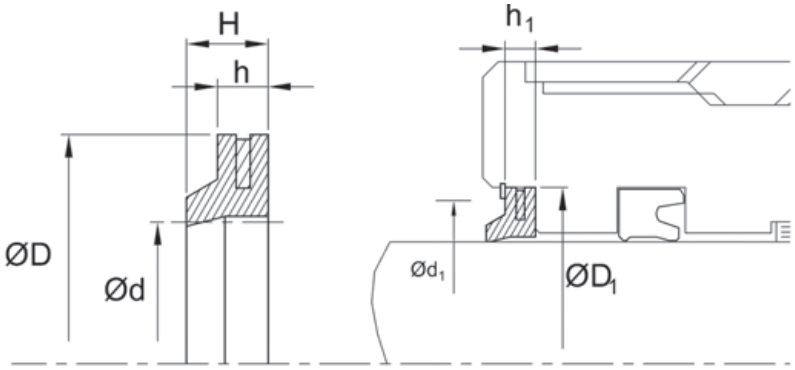
BW/S SERIES - BRASS/NBR & BRASS/FPM

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
BW-08000S/7*	8.000	+.001 / -.002				8.440	+.000 / -.010	8.500	+.003 / -.003	0.250	+.003 / -.001	720.18
BW-08000S/8	8.000	+.001 / -.002				8.660	+.000 / -.010	8.750	+.003 / -.003	0.375	+.003 / -.001	726.70
BW-08000S/9*	8.000	+.001 / -.002				8.880	+.000 / -.010	9.000	+.003 / -.003	0.500	+.003 / -.001	733.78
BW-08125S/9*	8.125	+.001 / -.002				9.005	+.000 / -.010	9.125	+.003 / -.003	0.500	+.003 / -.001	748.36
BW-08250S/7*	8.250	+.001 / -.002				8.690	+.000 / -.010	8.750	+.003 / -.003	0.250	+.003 / -.001	749.34
BW-08250S/8*	8.250	+.001 / -.002				8.910	+.000 / -.010	9.000	+.003 / -.003	0.375	+.003 / -.001	755.80
BW-08250S/9*	8.250	+.001 / -.002				9.130	+.000 / -.010	9.250	+.003 / -.003	0.500	+.003 / -.001	762.94
BW-08375S/9*	8.375	+.001 / -.002				9.255	+.000 / -.010	9.375	+.003 / -.003	0.500	+.003 / -.001	777.52
BW-08500S/7*	8.500	+.001 / -.002				8.940	+.000 / -.010	9.000	+.003 / -.003	0.250	+.003 / -.001	778.51
BW-08500S/8*	8.500	+.001 / -.002				9.160	+.000 / -.010	9.250	+.003 / -.003	0.375	+.003 / -.001	784.97
BW-08500S/9*	8.500	+.001 / -.002				9.380	+.000 / -.010	9.500	+.003 / -.003	0.500	+.003 / -.001	792.11
BW-08625S/9*	8.625	+.001 / -.002				9.505	+.000 / -.010	9.625	+.003 / -.003	0.500	+.003 / -.001	806.69
BW-08750S/7*	8.750	+.001 / -.002				9.190	+.000 / -.010	9.250	+.003 / -.003	0.250	+.003 / -.001	807.61
BW-08750S/8*	8.750	+.001 / -.002				9.410	+.000 / -.010	9.500	+.003 / -.003	0.375	+.003 / -.001	814.13
BW-08750S/9*	8.750	+.001 / -.002				9.630	+.000 / -.010	9.750	+.003 / -.003	0.500	+.003 / -.001	821.21
BW-08875S/9*	8.875	+.001 / -.002				9.755	+.000 / -.010	9.875	+.003 / -.003	0.500	+.003 / -.001	835.79
BW-09000S/7*	9.000	+.001 / -.002				9.440	+.000 / -.010	9.500	+.003 / -.003	0.250	+.003 / -.001	836.77
BW-09000S/8	9.000	+.001 / -.002				9.660	+.000 / -.010	9.750	+.003 / -.003	0.375	+.003 / -.001	870.08
BW-09000S/9*	9.000	+.001 / -.002				9.880	+.000 / -.010	10.000	+.003 / -.003	0.500	+.003 / -.001	871.20
BW-09250S/8*	9.250	+.001 / -.002				9.910	+.000 / -.010	10.000	+.003 / -.003	0.375	+.003 / -.001	872.40
BW-09250S/9*	9.250	+.001 / -.002				10.130	+.000 / -.010	10.250	+.003 / -.003	0.500	+.003 / -.001	879.54
BW-09500S/8*	9.500	+.001 / -.002				10.160	+.000 / -.010	10.250	+.003 / -.003	0.375	+.003 / -.001	901.56
BW-09500S/9*	9.500	+.001 / -.002				10.380	+.000 / -.010	10.500	+.003 / -.003	0.500	+.003 / -.001	908.64
BW-09750S/8*	9.500	+.001 / -.002				10.410	+.000 / -.010	10.500	+.003 / -.003	0.375	+.003 / -.001	930.67
BW-09750S/9*	9.750	+.001 / -.002				10.630	+.000 / -.010	10.750	+.003 / -.003	0.500	+.003 / -.001	937.80
BW-10000S/8	10.000	+.001 / -.002				10.660	+.000 / -.010	10.750	+.003 / -.003	0.375	+.003 / -.001	959.83
BW-10000S/9*	10.000	+.001 / -.002				10.880	+.000 / -.010	11.000	+.003 / -.003	0.500	+.003 / -.001	966.97
BW-10250S/9*	10.250	+.001 / -.002				11.130	+.000 / -.010	11.250	+.003 / -.003	0.500	+.003 / -.001	996.07
BW-10500S/8*	10.500	+.001 / -.002				11.160	+.000 / -.010	11.250	+.003 / -.003	0.375	+.003 / -.001	1018.10
BW-10500S/9*	10.500	+.001 / -.002				11.380	+.000 / -.010	11.500	+.003 / -.003	0.500	+.003 / -.001	1025.23
BW-10750S/9*	10.750	+.001 / -.002				11.630	+.000 / -.010	11.750	+.003 / -.003	0.500	+.003 / -.001	1054.40
BW-11000S/8*	11.000	+.001 / -.002				11.660	+.000 / -.010	11.750	+.003 / -.003	0.375	+.003 / -.001	1076.42
BW-11000S/9*	11.000	+.001 / -.002				11.880	+.000 / -.010	12.000	+.003 / -.003	0.500	+.003 / -.001	1083.56
BW-11250S/9*	11.250	+.001 / -.002				12.130	+.000 / -.010	12.250	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-11500S/8*	11.500	+.001 / -.002				12.160	+.000 / -.010	12.250	+.003 / -.003	0.375	+.003 / -.001	O/R
BW-11500S/9*	11.500	+.001 / -.002				12.380	+.000 / -.010	12.500	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-11750S/9*	11.750	+.001 / -.002				12.630	+.000 / -.010	12.750	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-12000S/8*	12.000	+.001 / -.002				12.660	+.000 / -.010	12.750	+.003 / -.003	0.375	+.003 / -.001	O/R
BW-12000S/9*	12.000	+.001 / -.002				12.880	+.000 / -.010	13.000	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-12250S/9*	12.250	+.001 / -.002				13.130	+.000 / -.010	13.250	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-12500S/9*	12.500	+.001 / -.002				13.380	+.000 / -.010	13.500	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-12750S/9*	12.750	+.001 / -.002				13.630	+.000 / -.010	13.750	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-13000S/9*	13.000	+.001 / -.002				13.880	+.000 / -.010	14.000	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-13500S/9*	13.500	+.001 / -.002				14.380	+.000 / -.010	14.500	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-14000S/9*	14.000	+.001 / -.002				14.880	+.000 / -.010	15.000	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-16000S/9*	16.000	+.001 / -.002				16.880	+.000 / -.010	17.000	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-18000S/9*	18.000	+.001 / -.002				18.880	+.000 / -.010	19.000	+.003 / -.003	0.500	+.003 / -.001	O/R
BW-20000S/9*	20.000	+.001 / -.002				20.880	+.000 / -.010	21.000	+.003 / -.003	0.500	+.003 / -.001	O/R

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

Fall Wiper Ring

Brass



Temperature:

Pressure: N/A

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	15.03
FWR-02*	0.562	+.000 / -.002	0.562	0.829	0.094	0.710	+.005 / -.000	0.823	+.004 / -.000	0.107	+.003 / -.003	15.90
FWR-03*	0.625	+.000 / -.002	0.625	0.891	0.094	0.772	+.005 / -.000	0.885	+.004 / -.000	0.107	+.003 / -.003	16.32
FWR-04*	0.687	+.000 / -.002	0.687	0.954	0.094	0.834	+.005 / -.000	0.948	+.004 / -.000	0.107	+.003 / -.003	16.34
FWR-05	0.750	+.000 / -.002	0.750	1.016	0.094	0.897	+.005 / -.000	1.010	+.004 / -.000	0.107	+.003 / -.003	16.39
FWR-06*	0.812	+.000 / -.002	0.812	1.090	0.094	0.960	+.005 / -.000	1.084	+.004 / -.000	0.107	+.003 / -.003	16.72
FWR-07*	0.875	+.000 / -.002	0.875	1.153	0.094	1.023	+.005 / -.000	1.147	+.004 / -.000	0.107	+.003 / -.003	17.08
FWR-08	0.937	+.000 / -.002	0.937	1.215	0.094	1.085	+.005 / -.000	1.209	+.004 / -.000	0.107	+.003 / -.003	17.85
FWR-09	1.000	+.000 / -.002	1.000	1.278	0.094	1.148	+.005 / -.000	1.272	+.004 / -.000	0.107	+.003 / -.003	17.94
FWR-10*	1.062	+.000 / -.002	1.062	1.340	0.094	1.210	+.005 / -.000	1.334	+.004 / -.000	0.107	+.003 / -.003	18.17
FWR-11	1.125	+.000 / -.002	1.125	1.403	0.094	1.273	+.005 / -.000	1.397	+.004 / -.000	0.107	+.003 / -.003	19.00
FWR-12*	1.187	+.000 / -.002	1.187	1.465	0.094	1.335	+.005 / -.000	1.459	+.004 / -.000	0.107	+.003 / -.003	19.54
FWR-13	1.250	+.000 / -.002	1.250	1.528	0.094	1.398	+.005 / -.000	1.522	+.004 / -.000	0.107	+.003 / -.003	20.04
FWR-14*	1.312	+.000 / -.002	1.312	1.622	0.094	1.480	+.005 / -.000	1.614	+.004 / -.000	0.107	+.003 / -.003	22.21
FWR-15	1.375	+.000 / -.002	1.375	1.685	0.094	1.542	+.005 / -.000	1.677	+.004 / -.000	0.107	+.003 / -.003	23.34
FWR-16*	1.437	+.000 / -.002	1.437	1.747	0.094	1.605	+.005 / -.000	1.739	+.004 / -.000	0.107	+.003 / -.003	23.81
FWR-17	1.500	+.000 / -.002	1.500	1.810	0.094	1.668	+.005 / -.000	1.802	+.004 / -.000	0.107	+.003 / -.003	23.83
FWR-18*	1.625	+.000 / -.002	1.625	1.935	0.094	1.793	+.005 / -.000	1.927	+.004 / -.000	0.107	+.003 / -.003	24.00
FWR-19	1.750	+.000 / -.002	1.750	2.060	0.094	1.918	+.005 / -.000	2.052	+.004 / -.000	0.107	+.003 / -.003	24.09
FWR-20*	1.875	+.000 / -.002	1.875	2.185	0.094	2.043	+.005 / -.000	2.177	+.004 / -.000	0.107	+.003 / -.003	26.14
FWR-21	2.000	+.000 / -.002	2.000	2.310	0.094	2.178	+.005 / -.000	2.302	+.004 / -.000	0.107	+.003 / -.003	27.18
FWR-22*	2.125	+.000 / -.002	2.125	2.435	0.094	2.303	+.005 / -.000	2.427	+.004 / -.000	0.107	+.003 / -.003	27.47
FWR-23	2.250	+.000 / -.002	2.250	2.560	0.094	2.428	+.005 / -.000	2.552	+.004 / -.000	0.107	+.003 / -.003	27.68
FWR-24*	2.375	+.000 / -.002	2.375	2.685	0.094	2.553	+.005 / -.000	2.677	+.004 / -.000	0.107	+.003 / -.003	31.63
FWR-25	2.500	+.000 / -.002	2.500	2.810	0.094	2.678	+.005 / -.000	2.802	+.004 / -.000	0.107	+.003 / -.003	33.58
FWR-26*	2.625	+.000 / -.002	2.625	2.999	0.109	2.834	+.005 / -.000	2.989	+.004 / -.000	0.122	+.003 / -.003	36.82
FWR-27	2.750	+.000 / -.002	2.750	3.124	0.109	2.959	+.005 / -.000	3.114	+.004 / -.000	0.122	+.003 / -.003	37.49
FWR-28*	2.875	+.000 / -.002	2.875	3.249	0.109	3.084	+.005 / -.000	3.239	+.004 / -.000	0.122	+.003 / -.003	39.92
FWR-29	3.000	+.000 / -.002	3.000	3.374	0.109	3.209	+.005 / -.000	3.364	+.004 / -.000	0.122	+.003 / -.003	40.97
FWR-30*	3.125	+.000 / -.002	3.125	3.499	0.109	3.334	+.005 / -.000	3.489	+.004 / -.000	0.122	+.003 / -.003	42.90
FWR-31	3.250	+.000 / -.002	3.250	3.624	0.109	3.459	+.005 / -.000	3.614	+.004 / -.000	0.122	+.003 / -.003	44.22
FWR-32*	3.375	+.000 / -.002	3.375	3.749	0.109	3.584	+.005 / -.000	3.739	+.004 / -.000	0.122	+.003 / -.003	45.60
FWR-33	3.500	+.000 / -.002	3.500	3.874	0.109	3.709	+.005 / -.000	3.864	+.004 / -.000	0.122	+.003 / -.003	46.99
FWR-34*	3.625	+.000 / -.002	3.625	3.999	0.109	3.834	+.005 / -.000	3.989	+.004 / -.000	0.122	+.003 / -.003	49.34
FWR-35	3.750	+.000 / -.002	3.750	4.124	0.109	3.959	+.005 / -.000	4.114	+.004 / -.000	0.122	+.003 / -.003	53.54
FWR-36*	3.875	+.000 / -.002	3.875	4.249	0.109	4.084	+.005 / -.000	4.239	+.004 / -.000	0.122	+.003 / -.003	58.41
FWR-37	4.000	+.000 / -.002	4.000	4.439	0.125	4.240	+.005 / -.000	4.427	+.004 / -.000	0.138	+.003 / -.003	61.01
FWR-38*	4.125	+.000 / -.002	4.125	4.564	0.125	4.365	+.005 / -.000	4.552	+.004 / -.000	0.138	+.003 / -.003	61.12

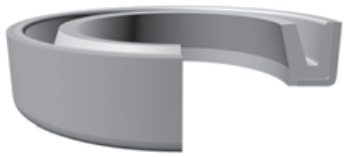
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

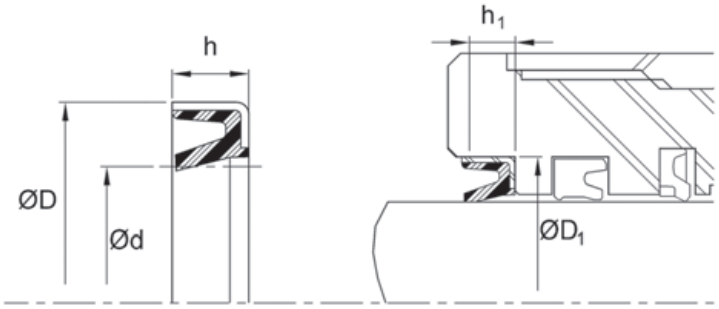
FWR SERIES - BRASS

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
FWR-39	4.250	+.000 / -.002	4.250	4.689	0.125	4.490	+.005 / -.000	4.677	+.004 / -.000	0.138	+.003 / -.003	62.16
FWR-40*	4.375	+.000 / -.003	4.375	4.814	0.125	4.615	+.005 / -.000	4.805	+.004 / -.000	0.138	+.003 / -.003	63.20
FWR-41	4.500	+.000 / -.003	4.500	4.939	0.125	4.740	+.005 / -.000	4.927	+.004 / -.000	0.138	+.003 / -.003	63.56
FWR-42*	4.625	+.000 / -.003	4.625	5.065	0.125	4.865	+.005 / -.000	5.052	+.004 / -.000	0.138	+.003 / -.003	67.43
FWR-43	4.750	+.000 / -.003	4.750	5.189	0.125	4.990	+.005 / -.000	5.177	+.004 / -.000	0.138	+.003 / -.003	69.09
FWR-44*	4.875	+.000 / -.003	4.875	5.314	0.125	5.115	+.005 / -.000	5.302	+.004 / -.000	0.138	+.003 / -.003	71.07
FWR-45	5.000	+.000 / -.003	5.000	5.439	0.125	5.240	+.005 / -.000	5.427	+.004 / -.000	0.138	+.003 / -.003	71.69
FWR-46*	5.125	+.000 / -.003	5.125	5.564	0.125	5.365	+.005 / -.000	5.552	+.004 / -.000	0.138	+.003 / -.003	73.25
FWR-47*	5.250	+.000 / -.003	5.250	5.689	0.125	5.490	+.005 / -.000	5.677	+.004 / -.000	0.138	+.003 / -.003	74.90
FWR-48*	5.375	+.000 / -.003	5.375	5.814	0.125	5.615	+.005 / -.000	5.802	+.004 / -.000	0.138	+.003 / -.003	76.89
FWR-49	5.500	+.000 / -.003	5.500	5.939	0.125	5.740	+.005 / -.000	5.927	+.004 / -.000	0.138	+.003 / -.003	78.55
FWR-50*	5.625	+.000 / -.003	5.625	6.077	0.141	5.897	+.005 / -.000	6.052	+.004 / -.000	0.154	+.003 / -.003	85.51
FWR-51	5.750	+.000 / -.003	5.750	6.254	0.141	6.022	+.005 / -.000	6.239	+.004 / -.000	0.154	+.003 / -.003	86.84
FWR-52*	5.875	+.000 / -.003	5.875	6.379	0.141	6.146	+.005 / -.000	6.364	+.004 / -.000	0.154	+.003 / -.003	87.84
FWR-53	6.000	+.000 / -.003	6.000	6.504	0.141	6.272	+.005 / -.000	6.489	+.004 / -.000	0.154	+.003 / -.003	88.50
FWR-54*	6.250	+.000 / -.003	6.250	6.754	0.141	6.522	+.005 / -.000	6.739	+.004 / -.000	0.154	+.003 / -.003	91.48
FWR-55*	6.500	+.000 / -.003	6.500	7.004	0.141	6.772	+.005 / -.000	6.989	+.004 / -.000	0.154	+.003 / -.003	92.81
FWR-56*	6.750	+.000 / -.003	6.750	7.254	0.141	7.022	+.005 / -.000	7.239	+.004 / -.000	0.154	+.003 / -.003	95.46
FWR-57	7.000	+.000 / -.003	7.000	7.504	0.141	7.272	+.005 / -.000	7.489	+.004 / -.000	0.154	+.003 / -.003	96.45
FWR-58*	7.250	+.000 / -.003	7.250	7.754	0.141	7.522	+.005 / -.000	7.739	+.004 / -.000	0.154	+.003 / -.003	101.41
FWR-59	7.500	+.000 / -.003	7.500	8.004	0.141	7.772	+.005 / -.000	7.989	+.004 / -.000	0.154	+.003 / -.003	105.07
FWR-60*	7.750	+.000 / -.003	7.750	8.254	0.141	8.022	+.005 / -.000	8.239	+.004 / -.000	0.154	+.003 / -.003	112.69
FWR-61	8.000	+.000 / -.003	8.000	8.504	0.141	8.272	+.005 / -.000	8.489	+.004 / -.000	0.154	+.003 / -.003	118.99
FWR-62*	8.500	+.000 / -.003	8.500	9.004	0.141	8.772	+.005 / -.000	8.989	+.004 / -.000	0.154	+.003 / -.003	128.26
FWR-63	9.000	+.000 / -.003	9.000	9.504	0.141	9.272	+.005 / -.000	9.489	+.004 / -.000	0.154	+.003 / -.003	136.89
FWR-64*	9.500	+.000 / -.003	9.500	10.004	0.141	9.772	+.005 / -.000	9.989	+.004 / -.000	0.154	+.003 / -.003	140.20
FWR-65	10.000	+.000 / -.003	10.000	10.504	0.141	10.272	+.005 / -.000	10.489	+.004 / -.000	0.154	+.003 / -.003	153.80
FWR-66*	10.500	+.000 / -.003	10.500	11.004	0.141	10.772	+.005 / -.000	10.989	+.004 / -.000	0.154	+.003 / -.003	173.35
FWR-67*	11.000	+.000 / -.003	11.000	11.504	0.141	11.272	+.005 / -.000	11.489	+.004 / -.000	0.154	+.003 / -.003	183.30
FWR-68*	11.500	+.000 / -.003	11.500	12.009	0.156	11.772	+.005 / -.000	11.989	+.004 / -.000	0.169	+.003 / -.003	198.86
FWR-69	12.000	+.000 / -.003	12.000	12.509	0.156	12.272	+.005 / -.000	12.489	+.004 / -.000	0.169	+.003 / -.003	210.80
FWR-70*	12.500	+.000 / -.003	12.500	13.009	0.156	12.772	+.005 / -.000	12.989	+.004 / -.000	0.169	+.003 / -.003	228.36
FWR-71*	13.000	+.000 / -.003	13.000	13.509	0.156	13.272	+.005 / -.000	13.489	+.004 / -.000	0.169	+.003 / -.003	239.96

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

J - Rod Wipers





STD AU 92A/Steel
-40/212F [-40/100C]

9250 AU 90A/Steel
-65/300F [-54/149C]

T862 AU 93A/Steel
-40/212F [-40/100C]

4615 AU 90A/Steel
-65/200F [-54/93C]

1023 AU 93A/Steel
-40/230F [-40/110C]

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"	(+.000/-.003)				
d1=3.000" < 7.000"	(+.000/-.004)				
d1=7.000" & Up	(+.000/-.005)				

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	T862	4615	1023
J05007500125	0.500	0.500	0.750	0.125	0.750	0.125	---	---	6.84*	---	---
J05001000250	0.500	0.500	1.000	0.250	1.000	0.250	---	6.84	6.84*	6.84*	6.84*
J06251125312	0.625	0.625	1.125	0.312	1.125	0.312	---	---	6.84	6.84*	6.84*
J07501000125	0.750	0.750	1.000	0.125	1.000	0.125	6.29*	---	---	---	---
J07501250250	0.750	0.750	1.250	0.250	1.250	0.250	5.14*	5.14	---	---	---
J07501250312	0.750	0.750	1.250	0.312	1.250	0.312	---	6.29	6.29*	6.29*	6.29*
J08751125156	0.875	0.875	1.125	0.156	1.125	0.156	6.84*	---	---	---	---
J08751250187	0.875	0.875	1.250	0.187	1.250	0.187	7.27*	---	---	---	---
J08751375312	0.875	0.875	1.375	0.312	1.375	0.312	7.40*	7.40	7.40*	7.40*	7.40*
J10001250125	1.000	1.000	1.250	0.125	1.250	0.125	7.15	---	---	---	---
J10001250312	1.000	1.000	1.250	0.312	1.250	0.312	8.24*	---	---	---	---
J10001375187	1.000	1.000	1.375	0.187	1.375	0.187	9.18	---	---	---	---
J10001500312	1.000	1.000	1.500	0.312	1.500	0.312	9.52*	9.52	9.52	9.52*	9.52*
J11251500187	1.125	1.125	1.500	0.187	1.500	0.187	7.43	---	---	---	---
J11251625312	1.125	1.125	1.625	0.312	1.625	0.312	10.22*	10.22	10.22*	10.22*	10.22*
J11871625218	1.187	1.187	1.625	0.218	1.625	0.218	---	---	---	---	12.21*
J11871625250	1.187	1.187	1.625	0.250	1.625	0.250	8.87	---	8.86*	---	---
J12501625125	1.250	1.250	1.625	0.125	1.625	0.125	14.25	---	---	---	---
J12501625187	1.250	1.250	1.625	0.187	1.625	0.187	9.80	---	---	---	---
J12501750250	1.250	1.250	1.750	0.250	1.750	0.250	12.54*	12.54	12.54*	---	---
J12501750312	1.250	1.250	1.750	0.312	1.750	0.312	12.31*	12.31	12.31	12.31*	12.31*
J12502062375	1.250	1.250	2.062	0.375	2.062	0.375	13.62	---	---	---	---
J13751750187	1.375	1.375	1.750	0.187	1.750	0.187	9.64	---	---	---	---
J13751875312	1.375	1.375	1.875	0.312	1.875	0.312	12.46*	12.46	12.46*	12.46*	12.46*

*** : 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	T862	4615	1023
J15001875125	1.500	1.500	1.875	0.125	1.875	0.125	12.50	---	---	---	---
J15001875187	1.500	1.500	1.875	0.187	1.875	0.187	9.59	---	---	---	---
J15001875250	1.500	1.500	1.875	0.250	1.875	0.250	12.14*	12.14	---	---	---
J15002000250	1.500	1.500	2.000	0.250	2.000	0.250	12.92*	12.91	12.91*	---	---
J15002000312	1.500	1.500	2.000	0.312	2.000	0.312	12.57*	12.57	12.57	12.57*	12.57*
J15002125250	1.500	1.500	2.125	0.250	2.125	0.250	13.01*	---	---	---	---
J15002125312	1.500	1.500	2.125	0.312	2.125	0.312	9.22	---	9.22*	---	9.22*
J15002250250	1.500	1.500	2.250	0.250	2.250	0.250	9.60	---	---	---	---
J15002250312	1.500	1.500	2.250	0.312	2.250	0.312	10.23	---	---	---	---
J15002250375	1.500	1.500	2.250	0.375	2.250	0.375	13.13*	13.13	13.13*	---	---
J15621875156	1.562	1.562	1.875	0.156	1.875	0.156	---	---	---	---	12.99*
J16252000187	1.625	1.625	2.000	0.187	2.000	0.187	---	---	13.51*	---	---
J16252125250	1.625	1.625	2.125	0.250	2.125	0.250	13.66	---	13.66*	---	---
J16252125312	1.625	1.625	2.125	0.312	2.125	0.312	---	13.31	13.31*	13.31*	13.31*
J17502125125	1.750	1.750	2.125	0.125	2.125	0.125	10.24	---	---	---	---
J17502250187	1.750	1.750	2.250	0.187	2.250	0.187	10.84	---	10.82*	---	---
J17502250250	1.750	1.750	2.250	0.250	2.250	0.250	13.60*	13.60	13.60*	---	---
J17502250312	1.750	1.750	2.250	0.312	2.250	0.312	13.60*	13.60	13.60*	13.60*	13.60*
J17502375250	1.750	1.750	2.375	0.250	2.375	0.250	11.36*	---	---	---	---
J17502437375	1.750	1.750	2.437	0.375	2.437	0.375	13.83*	13.83	13.83*	---	---
J17502437375	1.750	1.750	2.438	0.375	2.438	0.375	13.83*	13.83	13.83*	---	---
J17502500375	1.750	1.750	2.500	0.375	2.500	0.375	16.49	---	16.49*	---	16.49*
J17502750375	1.750	1.750	2.750	0.375	2.750	0.375	15.21*	---	---	---	---
J18752375312	1.875	1.875	2.375	0.312	2.375	0.312	13.91	---	13.91*	13.91*	13.91*
J18752562375	1.875	1.875	2.562	0.375	2.562	0.375	13.29	---	13.29*	---	---
J20002375187	2.000	2.000	2.375	0.187	2.375	0.187	12.18*	---	---	---	---
J20002375250	2.000	2.000	2.375	0.250	2.375	0.250	12.18	---	12.18*	---	---
J20002500187	2.000	2.000	2.500	0.187	2.500	0.187	13.87	---	---	---	---
J20002500250	2.000	2.000	2.500	0.250	2.500	0.250	15.67*	15.67	15.67*	---	---
J20002500312	2.000	2.000	2.500	0.312	2.500	0.312	14.11*	14.11	14.11*	14.11*	14.11*
J20002625250	2.000	2.000	2.625	0.250	2.625	0.250	16.65	---	16.65*	---	---
J20002687375	2.000	2.000	2.687	0.375	2.687	0.375	17.81	---	17.81*	---	---
J20002750250	2.000	2.000	2.750	0.250	2.750	0.250	18.20*	---	18.20*	---	---
J20002750375	2.000	2.000	2.750	0.375	2.750	0.375	13.70	---	---	---	14.97*
J20002875437	2.000	2.000	2.875	0.437	2.875	0.437	---	---	---	---	15.20*
J21252500125	2.125	2.125	2.500	0.125	2.500	0.125	15.64	---	---	---	---
J21252625250	2.125	2.125	2.625	0.250	2.625	0.250	12.67	---	---	---	---
J21252625312	2.125	2.125	2.625	0.312	2.625	0.312	15.23*	15.23*	15.23*	15.23*	15.23*
J21252750312	2.125	2.125	2.750	0.312	2.750	0.312	15.23*	---	---	---	---
J21252875375	2.125	2.125	2.875	0.375	2.875	0.375	15.52	---	10.31*	---	10.31*
J21252875437	2.125	2.125	2.875	0.437	2.875	0.437	16.25*	---	---	---	---
J21872687375	2.187	2.187	2.687	0.375	2.687	0.375	---	18.51*	18.51*	---	---
J22502750187	2.250	2.250	2.750	0.187	2.750	0.187	13.21	---	---	---	---
J22502750250	2.250	2.250	2.750	0.250	2.750	0.250	15.29*	15.29	15.29*	---	---
J22502750312	2.250	2.250	2.750	0.312	2.750	0.312	15.09	15.09	15.09*	15.09	15.09*
J22502875250	2.250	2.250	2.875	0.250	2.875	0.250	15.09	---	---	---	---
J22503000250	2.250	2.250	3.000	0.250	3.000	0.250	11.33	---	---	---	---
J22503000312	2.250	2.250	3.000	0.312	3.000	0.312	14.23*	---	---	---	---

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J SERIES - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	T862	4615	1023
J22503000375	2.250	2.250	3.000	0.375	3.000	0.375	15.79*	15.79	15.79*	---	15.79*
J22503250500	2.250	2.250	3.250	0.500	3.250	0.500	29.74	---	---	---	---
J23123125375	2.312	2.312	3.125	0.375	3.125	0.375	---	12.26*	---	---	---
J23752875250	2.375	2.375	2.875	0.250	2.875	0.250	12.95*	---	---	---	---
J23752875312	2.375	2.375	2.875	0.312	2.875	0.312	12.95	---	12.92*	12.92*	12.92*
J23753125375	2.375	2.375	3.125	0.375	3.125	0.375	13.04	---	13.04*	---	---
J25002875187	2.500	2.500	2.875	0.187	2.875	0.187	13.64	---	---	---	---
J25003000187	2.500	2.500	3.000	0.187	3.000	0.187	15.32	---	15.32*	---	---
J25003000312	2.500	2.500	3.000	0.312	3.000	0.312	17.08	17.08	17.08*	17.08	17.08
J25003125250	2.500	2.500	3.125	0.250	3.125	0.250	13.59	---	---	---	---
J25003187375	2.500	2.500	3.187	0.375	3.187	0.375	26.33*	26.33	26.33*	---	26.33*
J25003250250	2.500	2.500	3.250	0.250	3.250	0.250	13.67	---	13.67*	---	---
J25003250312	2.500	2.500	3.250	0.312	3.250	0.312	16.89*	---	---	---	---
J25003250375	2.500	2.500	3.250	0.375	3.250	0.375	17.36*	17.36	17.36*	---	---
J26253125250	2.625	2.625	3.125	0.250	3.125	0.250	17.36*	17.36	17.36*	---	---
J26253125312	2.625	2.625	3.125	0.312	3.125	0.312	---	19.83	19.83*	19.83*	19.83*
J26253250375	2.625	2.625	3.250	0.375	3.250	0.375	17.36*	---	---	---	---
J26253375375	2.625	2.625	3.375	0.375	3.375	0.375	---	---	19.89*	---	19.85*
J27503125187	2.750	2.750	3.125	0.187	3.125	0.187	18.36*	---	---	---	---
J27503250187	2.750	2.750	3.250	0.187	3.250	0.187	---	13.60	---	---	---
J27503250312	2.750	2.750	3.250	0.312	3.250	0.312	19.35*	19.35	19.35*	19.35*	19.35*
J27503500250	2.750	2.750	3.500	0.250	3.500	0.250	---	16.43	16.43*	---	---
J27503500375	2.750	2.750	3.500	0.375	3.500	0.375	16.72	---	16.72*	---	16.72*
J27503500500	2.750	2.750	3.500	0.500	3.500	0.500	---	25.36	25.36*	---	---
J27503750500	2.750	2.750	3.750	0.500	3.750	0.500	21.07*	21.07	21.07*	---	---
J28753375312	2.875	2.875	3.375	0.312	3.375	0.312	---	19.68	---	19.68*	---
J28753500250	2.875	2.875	3.500	0.250	3.500	0.250	19.21*	---	---	---	---
J30003375187	3.000	3.000	3.375	0.187	3.375	0.187	19.56*	---	---	---	---
J30003500312	3.000	3.000	3.500	0.312	3.500	0.312	19.88*	19.88	19.89	19.89*	19.89
J30003750250	3.000	3.000	3.750	0.250	3.750	0.250	19.89*	19.89	19.89*	---	---
J30003750375	3.000	3.000	3.750	0.375	3.750	0.375	16.92	---	16.92*	---	16.92*
J30003750500	3.000	3.000	3.750	0.500	3.750	0.500	22.06*	---	---	---	---
J30004000500	3.000	3.000	4.000	0.500	4.000	0.500	23.09*	23.09	23.09*	---	---
J31253625187	3.125	3.125	3.625	0.187	3.625	0.187	17.00*	---	---	---	---
J31253750312	3.125	3.125	3.750	0.312	3.750	0.312	17.27	---	---	---	17.27*
J31253750375	3.125	3.125	3.750	0.375	3.750	0.375	17.73	---	---	---	---
J32503750312	3.250	3.250	3.750	0.312	3.750	0.312	19.25	---	19.25*	---	---
J32503750375	3.250	3.250	3.750	0.375	3.750	0.375	17.68*	---	---	---	---
J32503875312	3.250	3.250	3.875	0.312	3.875	0.312	19.25	---	19.25*	19.25*	19.25
J32504000250	3.250	3.250	4.000	0.250	4.000	0.250	17.14*	17.14	---	---	---
J32504250500	3.250	3.250	4.250	0.500	4.250	0.500	23.57*	23.57	23.57*	---	---
J33753750375	3.375	3.375	3.750	0.375	3.750	0.375	18.20*	---	---	---	---
J33754000312	3.375	3.375	4.000	0.312	4.000	0.312	15.37	---	15.37*	---	---
J33754375375	3.375	3.375	4.375	0.375	4.375	0.375	18.99*	---	---	---	---
J35003750312	3.500	3.500	3.750	0.312	3.750	0.312	19.01*	---	---	---	---
J35004000312	3.500	3.500	4.000	0.312	4.000	0.312	19.35	19.35	19.35*	---	---
J35004000375	3.500	3.500	4.000	0.375	4.000	0.375	18.43*	---	---	---	---
J35004125250	3.500	3.500	4.125	0.250	4.125	0.250	18.85	---	---	---	---

*** : 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	T862	4615	1023
J35004125312	3.500	3.500	4.125	0.312	4.125	0.312	26.53*	26.53	26.53*	26.53*	26.53*
J35004250250	3.500	3.500	4.250	0.250	4.250	0.250	27.03*	27.03	27.03*	---	---
J35004250312	3.500	3.500	4.250	0.312	4.250	0.312	24.31	---	---	---	---
J35004250375	3.500	3.500	4.250	0.375	4.250	0.375	---	---	---	---	26.90*
J35004500500	3.500	3.500	4.500	0.500	4.500	0.500	27.62*	27.62	27.62*	---	---
J36254250312	3.625	3.625	4.250	0.312	4.250	0.312	---	---	---	---	25.01*
J36254500500	3.625	3.625	4.500	0.500	4.500	0.500	30.99*	---	---	---	---
J37504250187	3.750	3.750	4.250	0.187	4.250	0.187	---	18.85*	---	---	---
J37504250312	3.750	3.750	4.250	0.312	4.250	0.312	---	31.66	31.66	---	---
J37504375312	3.750	3.750	4.375	0.312	4.375	0.312	31.94	---	31.94	31.94*	31.94*
J37504500312	3.750	3.750	4.500	0.312	4.500	0.312	30.20*	30.20	30.20*	---	---
J37504750500	3.750	3.750	4.750	0.500	4.750	0.500	23.54*	23.54	23.54*	---	---
J40004500250	4.000	4.000	4.500	0.250	4.500	0.250	24.16*	---	---	---	---
J40004500312	4.000	4.000	4.500	0.312	4.500	0.312	24.74	---	---	---	---
J40004625187	4.000	4.000	4.625	0.187	4.625	0.187	---	26.42	---	---	---
J40004625312	4.000	4.000	4.625	0.312	4.625	0.312	37.38*	37.38	37.38*	37.38	37.38*
J40004750312	4.000	4.000	4.750	0.312	4.750	0.312	37.24*	37.24	37.24*	---	---
J40005000500	4.000	4.000	5.000	0.500	5.000	0.500	30.20*	30.20	30.20*	---	---
J41254750312	4.125	4.125	4.750	0.312	4.750	0.312	38.42	---	---	---	---
J42504750187	4.250	4.250	4.750	0.187	4.750	0.187	27.88*	---	---	---	---
J42504750312	4.250	4.250	4.750	0.312	4.750	0.312	30.85	---	30.85*	---	---
J42504875312	4.250	4.250	4.875	0.312	4.875	0.312	---	33.51*	33.51*	33.51	33.50*
J42505000500	4.250	4.250	5.000	0.500	5.000	0.500	31.20*	---	---	---	---
J42505250500	4.250	4.250	5.250	0.500	5.250	0.500	32.60*	38.73	38.73*	---	---
J43755000312	4.375	4.375	5.000	0.312	5.000	0.312	33.74*	45.87	45.87*	---	---
J43755000500	4.375	4.375	5.000	0.500	5.000	0.500	34.08*	---	---	---	---
J43755375375	4.375	4.375	5.375	0.375	5.375	0.375	34.01*	---	---	---	---
J45005000250	4.500	4.500	5.000	0.250	5.000	0.250	37.20*	---	---	---	---
J45005125312	4.500	4.500	5.125	0.312	5.125	0.312	51.79	---	51.79*	51.79*	51.79*
J45005250312	4.500	4.500	5.250	0.312	5.250	0.312	32.21*	32.21	32.21*	---	---
J45005500312	4.500	4.500	5.500	0.312	5.500	0.312	---	37.59	---	---	---
J45005500500	4.500	4.500	5.500	0.500	5.500	0.500	51.79*	51.79	51.79*	---	---
J47505375312	4.750	4.750	5.375	0.312	5.375	0.312	41.25*	41.25	41.25*	41.25*	---
J47505750375	4.750	4.750	5.750	0.375	5.750	0.375	42.01*	---	---	---	---
J47505750500	4.750	4.750	5.750	0.500	5.750	0.500	42.24*	42.24	42.24*	---	---
J50005625312	5.000	5.000	5.625	0.312	5.625	0.312	---	48.01	48.01*	48.01	48.01*
J50005750312	5.000	5.000	5.750	0.312	5.750	0.312	41.25*	41.25	41.25*	---	---
J50006000500	5.000	5.000	6.000	0.500	6.000	0.500	---	56.07	56.07*	---	---
J52505750312	5.250	5.250	5.750	0.312	5.750	0.312	64.97	---	---	---	---
J52505875312	5.250	5.250	5.875	0.312	5.875	0.312	40.16*	---	---	40.16*	---
J52506000312	5.250	5.250	6.000	0.312	6.000	0.312	59.61*	59.61*	59.61*	---	---
J55006125312	5.500	5.500	6.125	0.312	6.125	0.312	---	---	65.38*	---	---
J55006125375	5.500	5.500	6.125	0.375	6.125	0.375	45.05	45.05	45.05*	65.38*	45.05*
J55006250312	5.500	5.500	6.250	0.312	6.250	0.312	45.70	---	45.70*	---	---
J55006250375	5.500	5.500	6.250	0.375	6.250	0.375	---	---	---	---	59.60*
J57506375375	5.750	5.750	6.375	0.375	6.375	0.375	62.94	---	62.94*	62.94*	62.94*
J57506750500	5.750	5.750	6.750	0.500	6.750	0.500	36.77	---	36.77*	---	61.20*
J60006625375	6.000	6.000	6.625	0.375	6.625	0.375	---	59.96	59.96*	59.96*	59.96*

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

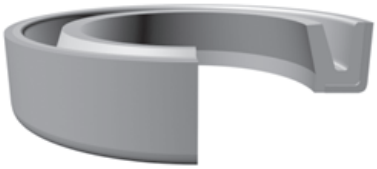
J SERIES - AU

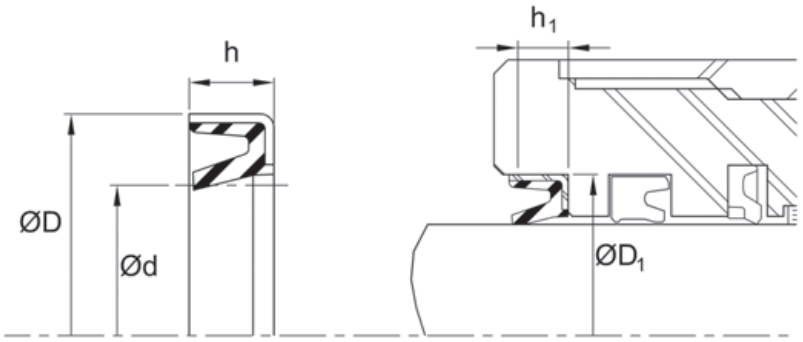
Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$				
		d	D	h	D1	h1	STD	9250	T862	4615	1023
J60006750375	6.000	6.000	6.750	0.375	6.750	0.375	54.90	---	---	---	---
J60007000500	6.000	6.000	7.000	0.500	7.000	0.500	---	76.27	76.27*	---	---
J62506750312	6.250	6.250	6.750	0312	6.750	0.312	---	89.63	89.63*	---	---
J65007125312	6.500	6.500	7.125	0.312	7.125	0.312	---	---	---	---	73.25*
J65007250312	6.500	6.500	7.250	0.312	7.250	0.312	---	72.82	72.83*	---	---
J65007500625	6.500	6.500	7.500	0.625	7.500	0.625	---	58.93	58.93*	---	---
J67507250312	6.750	6.750	7.250	0.312	7.250	0.312	---	74.93	74.93*	---	---
J67507375312	6.750	6.750	7.375	0.312	7.375	0.312	---	---	---	---	73.25*
J67507375375	6.750	6.750	7.375	0.375	7.375	0.375	---	---	73.25*	73.25*	73.25*
J67507750500	6.750	6.750	7.750	0.500	7.750	0.500	---	60.37*	60.37*	---	---
J70007750312	7.000	7.000	7.750	0.312	7.750	0.312	74.94	---	74.94*	---	---
J70007750375	7.000	7.000	7.750	0.375	7.750	0.375	---	---	---	---	89.50*
J70007875312	7.000	7.000	7.875	0.312	7.875	0.312	85.99*	---	---	---	---
J70008000500	7.000	7.000	8.000	0.500	8.000	0.500	---	133.62	133.62*	---	---
J72508000312	7.250	7.250	8.000	0.312	8.000	0.312	107.98	---	---	---	---
J72508250500	7.250	7.250	8.250	0.500	8.250	0.500	---	111.54	---	---	---
J75008250375	7.500	7.500	8.250	0.375	8.250	0.375	112.82*	---	---	---	---
J80008750312	8.000	8.000	8.750	0.312	8.750	0.312	113.30*	---	---	---	---
J80008750375	8.000	8.000	8.750	0.375	8.750	0.375	98.56	---	98.56*	---	98.56*
J81258625312	8.125	8.125	8.625	0.312	8.625	0.312	---	169.94*	169.94*	---	---
J85009125375	8.500	8.500	9.125	0.375	9.125	0.375	---	---	---	---	583.73
J87509750550	8.750	8.750	9.750	0.550	9.750	0.550	O/R	---	---	---	---
J90009750500	9.000	9.000	9.750	0.500	9.750	0.500	---	---	120.25*	---	---
J90009750550	9.000	9.000	9.750	0.550	9.750	0.590	---	105.71	---	---	---
J90009750562	9.000	9.000	9.750	0.562	9.750	0.562	O/R	---	---	---	---
J90009875312	9.000	9.000	9.875	0.312	9.875	0.312	278.57*	---	---	---	---
J975010250312	9.750	9.750	10.250	0.312	10.250	0.312	---	197.39*	---	---	---
J1000011000500	10.000	10.000	11.000	0.500	11.000	0.500	338.93*	---	---	---	---
J1100012000550	11.000	11.000	12.000	0.550	12.000	0.590	---	120.25	---	---	---
J1250013500550	12.500	12.500	13.500	0.550	13.500	0.590	---	124.86	---	---	---
J1350014500550	13.500	13.500	14.500	0.550	14.500	0.590	---	128.90	---	---	---

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

J/N - Rod Wipers

Nitrile/Steel





Temperature: -40/225F [-40/107C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
J01870500125/N	0.187	+.003 / -.003	0.187	0.500	0.125			0.500	+.001 / -.001	0.125	+.015 / -.000	1.97
J03750625125/N	0.375	+.003 / -.003	0.375	0.625	0.125			0.625	+.001 / -.001	0.125	+.015 / -.000	2.02
J03750687156/N	0.375	+.003 / -.003	0.375	0.687	0.156			0.687	+.001 / -.001	0.156	+.015 / -.000	2.10
J05000687094/N	0.500	+.003 / -.003	0.500	0.687	0.094			0.687	+.001 / -.001	0.094	+.015 / -.000	2.20
J05000750125/N	0.500	+.003 / -.003	0.500	0.750	0.125			0.750	+.001 / -.001	0.125	+.015 / -.000	3.25
J05001125250/N*	0.500	+.003 / -.003	0.500	1.125	0.250			1.125	+.001 / -.001	0.250	+.015 / -.000	2.47
J06250875125/N	0.625	+.003 / -.003	0.625	0.875	0.125			0.875	+.001 / -.001	0.125	+.015 / -.000	2.51
J06250937187/N	0.625	+.003 / -.003	0.625	0.937	0.187			0.937	+.001 / -.001	0.187	+.015 / -.000	2.51
J06251000125/N	0.625	+.003 / -.003	0.625	1.000	0.125			1.000	+.001 / -.001	0.125	+.015 / -.000	3.79
J06870937125/N	0.687	+.003 / -.003	0.687	0.937	0.125			0.937	+.001 / -.001	0.125	+.015 / -.000	2.42
J06871000187/N	0.687	+.003 / -.003	0.687	1.000	0.187			1.000	+.001 / -.001	0.187	+.015 / -.000	2.46
J07501000125/N	0.750	+.003 / -.003	0.750	1.000	0.125			1.000	+.001 / -.001	0.125	+.015 / -.000	2.74
J07501062187/N	0.750	+.003 / -.003	0.750	1.062	0.187			1.062	+.001 / -.001	0.187	+.015 / -.000	5.52
J07501125187/N	0.750	+.003 / -.003	0.750	1.125	0.187			1.125	+.001 / -.001	0.187	+.015 / -.000	2.50
J07501250250/N	0.750	+.003 / -.003	0.750	1.250	0.250			1.250	+.001 / -.001	0.250	+.015 / -.000	2.53
J07501375375/N*	0.750	+.003 / -.003	0.750	1.375	0.375			1.375	+.001 / -.001	0.375	+.015 / -.000	7.13
J08751125125/N	0.875	+.003 / -.003	0.875	1.125	0.125			1.125	+.001 / -.001	0.125	+.015 / -.000	2.74
J08751250187/N	0.875	+.003 / -.003	0.875	1.250	0.187			1.250	+.001 / -.001	0.187	+.015 / -.000	2.78
J08751312236/N*	0.875	+.003 / -.003	0.875	1.312	0.236			1.312	+.001 / -.001	0.236	+.015 / -.000	5.52
J10001250125/N	1.000	+.003 / -.003	1.000	1.250	0.125			1.250	+.001 / -.001	0.125	+.015 / -.000	2.64
J10001312125/N	1.000	+.003 / -.003	1.000	1.312	0.125			1.312	+.001 / -.001	0.125	+.015 / -.000	5.19
J10001375187/N	1.000	+.003 / -.003	1.000	1.375	0.187			1.375	+.001 / -.001	0.187	+.015 / -.000	3.05
J10001437250/N	1.000	+.003 / -.003	1.000	1.437	0.250			1.437	+.001 / -.001	0.250	+.015 / -.000	3.55
J10001500187/N	1.000	+.003 / -.003	1.000	1.500	0.187			1.500	+.001 / -.001	0.187	+.015 / -.000	2.55
J10001625250/N	1.000	+.003 / -.003	1.000	1.625	0.250			1.625	+.001 / -.001	0.250	+.015 / -.000	2.55
J10001625375/N*	1.000	+.003 / -.003	1.000	1.625	0.375			1.625	+.001 / -.001	0.375	+.015 / -.000	10.23
J10621312125/N	1.062	+.003 / -.003	1.062	1.312	0.125			1.312	+.001 / -.001	0.125	+.015 / -.000	5.24
J10621437187/N*	1.062	+.003 / -.003	1.062	1.437	0.187			1.437	+.001 / -.001	0.187	+.015 / -.000	2.76
J10621500187/N	1.062	+.003 / -.003	1.062	1.500	0.187			1.500	+.001 / -.001	0.187	+.015 / -.000	3.45
J11251375125/N	1.125	+.003 / -.003	1.125	1.375	0.125			1.375	+.001 / -.001	0.125	+.015 / -.000	2.55
J11251500187/N	1.125	+.003 / -.003	1.125	1.500	0.187			1.500	+.001 / -.001	0.187	+.015 / -.000	2.55
J11251500250/N	1.125	+.003 / -.003	1.125	1.500	0.250			1.500	+.001 / -.001	0.250	+.015 / -.000	2.60
J11251562250/N	1.125	+.003 / -.003	1.125	1.562	0.250			1.562	+.001 / -.001	0.250	+.015 / -.000	2.75
J11251625250/N	1.125	+.003 / -.003	1.125	1.625	0.250			1.625	+.001 / -.001	0.250	+.015 / -.000	2.55
J11871625250/N	1.187	+.003 / -.003	1.187	1.625	0.250			1.625	+.001 / -.001	0.250	+.015 / -.000	2.60
J12501500125/N	1.250	+.003 / -.003	1.250	1.500	0.125			1.500	+.001 / -.001	0.125	+.015 / -.000	2.55
J12501625250/N	1.250	+.003 / -.003	1.250	1.625	0.250			1.625	+.001 / -.001	0.250	+.015 / -.000	2.84
J12501687187/N	1.250	+.003 / -.003	1.250	1.687	0.187			1.687	+.001 / -.001	0.187	+.015 / -.000	2.75

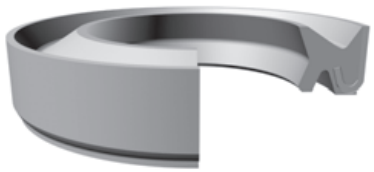
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

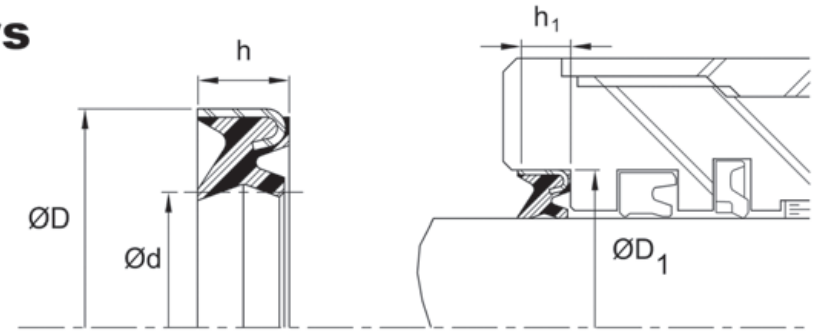
J/N SERIES - NBR/STEEL

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
J12501750250/N	1.250	+.003 / -.003	1.250	1.750	0.250			1.750	+.001 / -.001	0.250	+.015 / -.000	3.53
J12501875250/N	1.250	+.003 / -.003	1.250	1.875	0.250			1.875	+.001 / -.001	0.250	+.015 / -.000	4.03
J13751625125/N	1.375	+.003 / -.003	1.375	1.625	0.125			1.625	+.001 / -.001	0.125	+.015 / -.000	4.34
J13751750187/N	1.375	+.003 / -.003	1.375	1.750	0.187			1.750	+.001 / -.001	0.187	+.015 / -.000	2.75
J13751875250/N	1.375	+.003 / -.003	1.375	1.875	0.250			1.875	+.001 / -.001	0.250	+.015 / -.000	3.98
J13751937250/N	1.375	+.003 / -.003	1.375	1.937	0.250			1.937	+.001 / -.001	0.250	+.015 / -.000	7.64
J15001750125/N	1.500	+.003 / -.003	1.500	1.750	0.125			1.750	+.001 / -.001	0.125	+.015 / -.000	7.81
J15001875187/N	1.500	+.003 / -.003	1.500	1.875	0.187			1.875	+.001 / -.001	0.187	+.015 / -.000	2.75
J15001875250/N	1.500	+.003 / -.003	1.500	1.875	0.250			1.875	+.001 / -.001	0.250	+.015 / -.000	3.01
J15002000187/N	1.500	+.003 / -.003	1.500	2.000	0.187			2.000	+.001 / -.001	0.187	+.015 / -.000	6.88
J15002000250/N	1.500	+.003 / -.003	1.500	2.000	0.250			2.000	+.001 / -.001	0.250	+.015 / -.000	3.10
J15622500250/N*	1.562	+.003 / -.003	1.562	2.500	0.250			2.500	+.001 / -.001	0.250	+.015 / -.000	7.02
J16252000187/N	1.625	+.003 / -.003	1.625	2.000	0.187			2.000	+.001 / -.001	0.187	+.015 / -.000	6.23
J16252125250/N	1.625	+.003 / -.003	1.625	2.125	0.250			2.125	+.001 / -.001	0.250	+.015 / -.000	4.20
J17502125187/N	1.750	+.003 / -.003	1.750	2.125	0.187			2.125	+.001 / -.001	0.187	+.015 / -.000	4.27
J17502156187/N	1.750	+.003 / -.003	1.750	2.156	0.187			2.156	+.001 / -.001	0.187	+.015 / -.000	3.98
J17502250250/N	1.750	+.003 / -.003	1.750	2.250	0.250			2.250	+.001 / -.001	0.250	+.015 / -.000	4.49
J17502375250/N	1.750	+.003 / -.003	1.750	2.375	0.250			2.375	+.001 / -.001	0.250	+.015 / -.000	4.57
J17502625250/N	1.750	+.003 / -.003	1.750	2.625	0.250			2.625	+.001 / -.001	0.250	+.015 / -.000	4.70
J18752250187/N	1.875	+.003 / -.003	1.875	2.250	0.187			2.250	+.001 / -.001	0.187	+.015 / -.000	4.85
J18752500250/N	1.875	+.003 / -.003	1.875	2.500	0.250			2.500	+.001 / -.001	0.250	+.015 / -.000	4.85
J20002375187/N	2.000	+.003 / -.003	2.000	2.375	0.187			2.375	+.001 / -.001	0.187	+.015 / -.000	5.00
J20002500250/N	2.000	+.003 / -.003	2.000	2.500	0.250			2.500	+.001 / -.001	0.250	+.015 / -.000	4.77
J20002625250/N	2.000	+.003 / -.003	2.000	2.625	0.250			2.625	+.001 / -.001	0.250	+.015 / -.000	5.00
J20002750250/N*	2.000	+.003 / -.003	2.000	2.750	0.250			2.750	+.001 / -.001	0.250	+.015 / -.000	6.44
J20002687375/N	2.000	+.003 / -.003	2.000	2.687	0.375			2.687	+.001 / -.001	0.375	+.015 / -.000	9.27
J20002875468/N*	2.000	+.003 / -.003	2.000	2.875	0.468			2.875	+.001 / -.001	0.468	+.015 / -.000	7.10
J21252500187/N	2.125	+.003 / -.003	2.125	2.500	0.187			2.500	+.001 / -.001	0.187	+.015 / -.000	5.72
J22502625187/N	2.250	+.003 / -.003	2.250	2.625	0.187			2.625	+.001 / -.001	0.187	+.015 / -.000	5.38
J22502625250/N	2.250	+.003 / -.003	2.250	2.625	0.250			2.625	+.001 / -.001	0.250	+.015 / -.000	5.72
J22502750250/N	2.250	+.003 / -.003	2.250	2.750	0.250			2.750	+.001 / -.001	0.250	+.015 / -.000	5.72
J22502875250/N	2.250	+.003 / -.003	2.250	2.875	0.250			2.875	+.001 / -.001	0.250	+.015 / -.000	5.72
J23753000250/N	2.375	+.003 / -.003	2.375	3.000	0.250			3.000	+.001 / -.001	0.250	+.015 / -.000	5.92
J25003000250/N	2.500	+.003 / -.003	2.500	3.000	0.250			3.000	+.002 / -.002	0.250	+.015 / -.000	5.85
J25003125250/N	2.500	+.003 / -.003	2.500	3.125	0.250			3.125	+.002 / -.002	0.250	+.015 / -.000	7.70
J27503125187/N	2.750	+.003 / -.003	2.750	3.125	0.187			3.125	+.002 / -.002	0.187	+.015 / -.000	5.71
J27503250250/N	2.750	+.003 / -.003	2.750	3.250	0.250			3.250	+.002 / -.002	0.250	+.015 / -.000	6.71
J27503750375/N	2.750	+.003 / -.003	2.750	3.750	0.375			3.750	+.002 / -.002	0.375	+.015 / -.000	8.44
J28753375250/N	2.875	+.003 / -.003	2.875	3.375	0.250			3.375	+.002 / -.002	0.250	+.015 / -.000	5.35
J30003500250/N	3.000	+.003 / -.003	3.000	3.500	0.250			3.500	+.002 / -.002	0.250	+.015 / -.000	6.37
J30003750250/N*	3.000	+.003 / -.003	3.000	3.750	0.250			3.750	+.002 / -.002	0.250	+.015 / -.000	7.04
J32503875312/N	3.250	+.003 / -.003	3.250	3.875	0.312			3.875	+.002 / -.002	0.312	+.015 / -.000	11.63
J35004000250/N	3.500	+.003 / -.003	3.500	4.000	0.250			4.000	+.002 / -.002	0.250	+.015 / -.000	9.01
J37504375328/N*	3.750	+.003 / -.003	3.750	4.375	0.328			4.375	+.002 / -.002	0.328	+.015 / -.000	13.19

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

J/DL - Rod Wipers





9250 AU 90/STEEL **Temp.: -65/300F [-54/149C]** **Pressure: N/A**
DL/Y AU 92/STEEL **Temp.: -40/212F [-40/100C]** **Pressure: N/A**

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
J15002250433DL	1.500	+.000 / -.003	1.500	2.250	0.433	2.250	+.001 / -.001	0.433	+.015 / -.000	26.28	24.67
J16252375433DL	1.625	+.000 / -.003	1.625	2.375	0.433	2.375	+.001 / -.001	0.433	+.015 / -.000	---	24.90*
J17502437433DL	1.750	+.000 / -.003	1.750	2.437	0.433	2.437	+.001 / -.001	0.433	+.015 / -.000	26.76	25.13*
J17502500433DL	1.750	+.000 / -.003	1.750	2.500	0.433	2.500	+.001 / -.001	0.433	+.015 / -.000	---	25.36*
J18752562433DL	1.875	+.000 / -.003	1.875	2.562	0.433	2.562	+.001 / -.001	0.433	+.015 / -.000	27.26	25.59
J18752625433DL	1.875	+.000 / -.003	1.875	2.625	0.433	2.625	+.001 / -.001	0.433	+.015 / -.000	---	25.96*
J20002687433DL	2.000	+.000 / -.003	2.000	2.687	0.433	2.687	+.001 / -.001	0.433	+.015 / -.000	28.06	26.34
J20002750433DL	2.000	+.000 / -.003	2.000	2.750	0.433	2.750	+.001 / -.001	0.433	+.015 / -.000	---	26.82*
J21252875433DL	2.125	+.000 / -.003	2.125	2.875	0.433	2.875	+.001 / -.001	0.433	+.015 / -.000	29.08	28.29
J22503000433DL	2.250	+.000 / -.003	2.250	3.000	0.433	3.000	+.001 / -.001	0.433	+.015 / -.000	29.23	29.16
J23753125433DL	2.375	+.000 / -.003	2.375	3.125	0.433	3.125	+.001 / -.001	0.433	+.015 / -.000	31.06*	27.60
J25003250433DL	2.500	+.000 / -.003	2.500	3.250	0.433	3.250	+.001 / -.001	0.433	+.015 / -.000	31.48	31.09*
J26253375433DL	2.625	+.000 / -.003	2.625	3.375	0.433	3.375	+.001 / -.001	0.433	+.015 / -.000	32.21	30.25
J27503750550DL	2.750	+.000 / -.003	2.750	3.750	0.550	3.750	+.001 / -.001	0.550	+.015 / -.000	33.35	31.32
J30004000550DL	3.000	+.000 / -.004	3.000	4.000	0.550	4.000	+.001 / -.001	0.550	+.015 / -.000	34.46	32.36
J32504250550DL	3.250	+.000 / -.004	3.250	4.250	0.550	4.250	+.001 / -.001	0.550	+.015 / -.000	35.43	33.27
J35004500550DL	3.500	+.000 / -.004	3.500	4.500	0.550	4.500	+.001 / -.001	0.550	+.015 / -.000	36.32	34.10
J37504750550DL	3.750	+.000 / -.004	3.750	4.750	0.550	4.750	+.001 / -.001	0.550	+.015 / -.000	36.96	34.70*
J40005000550DL	4.000	+.000 / -.004	4.000	5.000	0.550	5.000	+.001 / -.001	0.550	+.015 / -.000	37.21	34.94
J42505250550DL	4.250	+.000 / -.004	4.250	5.250	0.550	5.250	+.001 / -.001	0.550	+.015 / -.000	---	37.28
J45005500550DL	4.500	+.000 / -.004	4.500	5.500	0.550	5.500	+.001 / -.001	0.550	+.015 / -.000	---	38.61*
J47505750550DL	4.750	+.000 / -.004	4.750	5.750	0.550	5.750	+.001 / -.001	0.550	+.015 / -.000	55.57*	40.00
J50006000550DL	5.000	+.000 / -.004	5.000	6.000	0.550	6.000	+.001 / -.001	0.550	+.015 / -.000	67.54	58.86
J52506250550DL	5.250	+.000 / -.004	5.250	6.250	0.550	6.250	+.001 / -.001	0.550	+.015 / -.000	59.21	55.59*

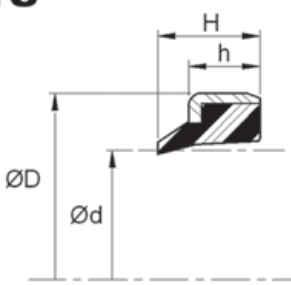
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

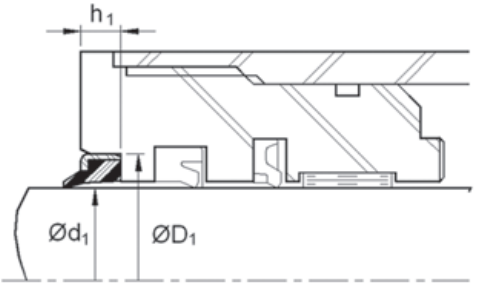
J/DL SERIES - AU

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions				$	
		Tol.	d	D	h	D1	Tol.	h1	Tol.	9250	/Y
J55006500550DL	5.500	+.000 / -.004	5.500	6.500	0.550	6.500	+.001 / -.001	0.550	+.015 / -.000	65.20	61.22
J57506750550DL	5.750	+.000 / -.004	5.750	6.750	0.550	6.750	+.001 / -.001	0.550	+.015 / -.000	87.11	63.47
J60007000550DL	6.000	+.000 / -.004	6.000	7.000	0.550	7.000	+.001 / -.001	0.550	+.015 / -.000	71.68*	63.20
J62507250550DL	6.250	+.000 / -.004	6.250	7.250	0.550	7.250	+.001 / -.001	0.550	+.015 / -.000	---	64.20*
J65007500550DL	6.500	+.000 / -.004	6.500	7.500	0.550	7.500	+.001 / -.001	0.550	+.015 / -.000	---	68.19*
J67507750550DL	6.750	+.000 / -.004	6.750	7.750	0.550	7.750	+.001 / -.001	0.550	+.015 / -.000	76.87	72.18*
J70008000550DL	7.000	+.000 / -.005	7.000	8.000	0.550	8.000	+.001 / -.001	0.550	+.015 / -.000	77.44	72.72*
J72508250550DL	7.250	+.000 / -.005	7.250	8.250	0.550	8.250	+.001 / -.001	0.550	+.015 / -.000	---	104.74*
J75008500550DL	7.500	+.000 / -.005	7.500	8.500	0.550	8.500	+.001 / -.001	0.550	+.015 / -.000	---	116.40*
J77508750550DL	7.750	+.000 / -.005	7.750	8.750	0.550	8.750	+.001 / -.001	0.550	+.015 / -.000	---	131.40*
J80009000550DL	8.000	+.000 / -.005	8.000	9.000	0.550	9.000	+.001 / -.001	0.550	+.015 / -.000	141.74	133.09
J82509250550DL	8.250	+.000 / -.005	8.250	9.250	0.550	9.250	+.001 / -.001	0.550	+.015 / -.000	---	142.80*
J85009500550DL	8.500	+.000 / -.005	8.500	9.500	0.550	9.500	+.001 / -.001	0.550	+.015 / -.000	---	146.20*
J87509750550DL	8.750	+.000 / -.005	8.750	9.750	0.550	9.750	+.001 / -.001	0.550	+.015 / -.000	---	151.20
J1575016750550DL	15.750	+.000 / -.005	15.750	16.750	0.550	16.750	+.001 / -.001	0.550	+.015 / -.000	O/R*	---

MPW - Rod Wipers

Polyurethane/Steel





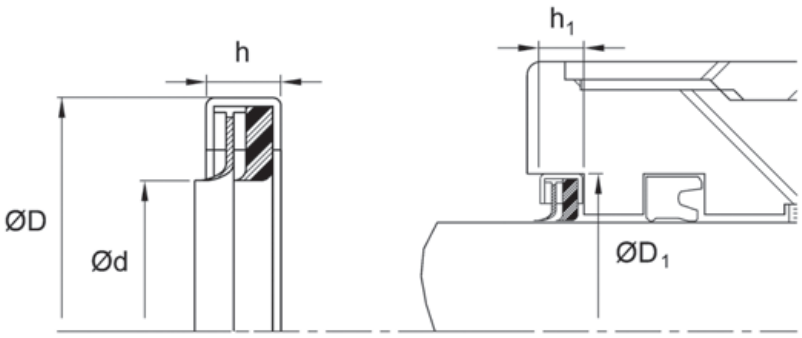
Temperature: -40/212F [-40/100C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
MPW-00750	0.750	+.000 / -.003	0.750	1.125	0.218			1.125	+.002 /- .000	0.218	+.020 / -.000	10.70
MPW-01000	1.000	+.000 / -.003	1.000	1.375	0.218			1.375	+.002 /- .000	0.218	+.020 / -.000	10.70
MPW-01250	1.250	+.000 / -.003	1.250	1.625	0.218			1.625	+.002 /- .000	0.218	+.020 / -.000	11.21
MPW-01500	1.500	+.000 / -.003	1.500	1.875	0.218			1.875	+.002 /- .000	0.218	+.020 / -.000	11.71
MPW-01750	1.750	+.000 / -.003	1.750	2.125	0.218			2.125	+.002 /- .000	0.218	+.020 / -.000	12.16
MPW-02000*	2.000	+.000 / -.004	2.000	2.375	0.218			2.375	+.002 /- .000	0.218	+.020 / -.000	12.42
MPW-02250*	2.250	+.000 / -.004	2.250	2.625	0.218			2.625	+.002 /- .000	0.218	+.020 / -.000	13.32
MPW-02500	2.500	+.000 / -.004	2.500	2.875	0.218			2.875	+.002 /- .000	0.218	+.020 / -.000	13.52
MPW-02750	2.750	+.000 / -.004	2.750	3.125	0.218			3.125	+.002 /- .000	0.218	+.020 / -.000	13.90
MPW-03000	3.000	+.000 / -.004	3.000	3.375	0.218			3.375	+.002 /- .000	0.218	+.020 / -.000	15.62

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

WU - Rod Wipers

Nitrile/Brass/Steel



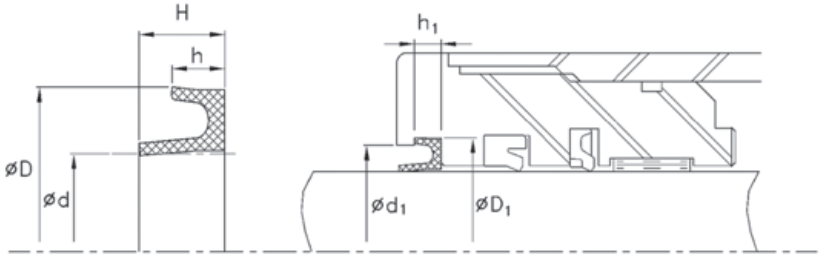
Temperature: -40/248F [-40/120C] **Pressure: N/A**

Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
WU-00500*	0.500	+.000 / -.002	0.500	1.000	0.250			1.000	+.002 / -.000	0.281	+.020 / -.000	23.95
WU-00625*	0.625	+.000 / -.002	0.625	1.125	0.281			1.125	+.002 / -.000	0.312	+.020 / -.000	24.36
WU-00750*	0.750	+.000 / -.002	0.750	1.250	0.281			1.250	+.002 / -.000	0.312	+.020 / -.000	24.72
WU-00875*	0.875	+.000 / -.002	0.875	1.375	0.281			1.375	+.002 / -.000	0.312	+.020 / -.000	25.09
WU-01000	1.000	+.000 / -.002	1.000	1.500	0.281			1.500	+.002 / -.000	0.312	+.020 / -.000	25.46
WU-01125*	1.125	+.000 / -.002	1.125	1.625	0.281			1.625	+.002 / -.000	0.312	+.020 / -.000	28.54
WU-01250	1.250	+.000 / -.002	1.250	1.750	0.281			1.750	+.002 / -.000	0.312	+.020 / -.000	35.78
WU-01375	1.375	+.000 / -.002	1.375	1.875	0.281			1.875	+.002 / -.000	0.312	+.020 / -.000	38.43
WU-01500	1.500	+.000 / -.002	1.500	2.000	0.281			2.000	+.002 / -.000	0.312	+.020 / -.000	41.07
WU-01625*	1.625	+.000 / -.002	1.625	2.125	0.281			2.125	+.002 / -.000	0.312	+.020 / -.000	42.88
WU-01687	1.687	+.000 / -.002	1.687	2.183	0.312			2.183	+.002 / -.000	0.343	+.020 / -.000	45.70
WU-01750	1.750	+.000 / -.002	1.750	2.250	0.281			2.250	+.002 / -.000	0.312	+.020 / -.000	46.80
WU-01875*	1.875	+.000 / -.002	1.875	2.375	0.281			2.375	+.002 / -.000	0.312	+.020 / -.000	47.87
WU-02000	2.000	+.000 / -.002	2.000	2.500	0.281			2.500	+.002 / -.000	0.312	+.020 / -.000	48.74
WU-02000-1*	2.000	+.000 / -.002	2.000	2.625	0.281			2.625	+.002 / -.000	0.312	+.020 / -.000	49.85
WU-02250*	2.250	+.000 / -.002	2.250	2.750	0.281			2.750	+.002 / -.000	0.312	+.020 / -.000	51.22
WU-02375*	2.375	+.000 / -.002	2.375	2.875	0.281			2.875	+.002 / -.000	0.312	+.020 / -.000	97.95
WU-02500	2.500	+.000 / -.003	2.500	3.000	0.281			3.000	+.002 / -.000	0.312	+.020 / -.000	55.81
WU-02500-1*	2.500	+.000 / -.003	2.500	3.125	0.281			3.125	+.002 / -.000	0.312	+.020 / -.000	60.44
WU-02750	2.750	+.000 / -.003	2.750	3.250	0.281			3.250	+.002 / -.000	0.312	+.020 / -.000	63.59
WU-03000	3.000	+.000 / -.004	3.000	3.500	0.281			3.500	+.002 / -.000	0.312	+.020 / -.000	66.73
WU-03250*	3.250	+.000 / -.004	3.250	3.875	0.328			3.875	+.002 / -.000	0.359	+.020 / -.000	76.22
WU-03500	3.500	+.000 / -.004	3.500	4.125	0.328			4.125	+.002 / -.000	0.359	+.020 / -.000	83.49
WU-03750*	3.750	+.000 / -.004	3.750	4.375	0.328			4.375	+.002 / -.000	0.359	+.020 / -.000	91.19
WU-04000	4.000	+.000 / -.005	4.000	4.625	0.328			4.625	+.002 / -.000	0.359	+.020 / -.000	109.52
WU-04250*	4.250	+.000 / -.005	4.250	4.875	0.328			4.875	+.002 / -.000	0.359	+.020 / -.000	109.68
WU-04500*	4.500	+.000 / -.005	4.500	5.125	0.328			5.125	+.002 / -.000	0.359	+.020 / -.000	140.71
WU-05500	5.500	+.000 / -.005	5.500	6.125	0.359			6.125	+.002 / -.000	0.390	+.020 / -.000	191.93

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

WY - Rod Wipers

Nylon



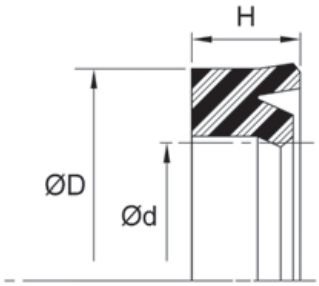
Temperature: -40/212F [-40/100C] **Pressure:**

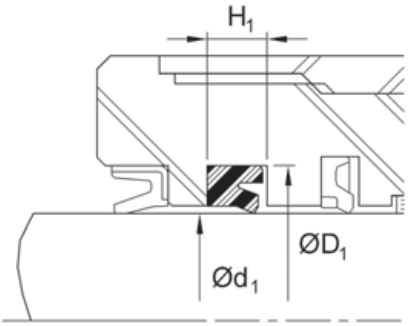
Ref.Number	Rod Diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
WY-00500*	0.500	+.000 / -.002	0.500	0.875	0.156	0.812	+.002 / -.000	0.875	+.002 / -.000	0.172	+.005 / -.000	6.24
WY-00625*	0.625	+.000 / -.002	0.625	1.000	0.156	0.937	+.002 / -.000	1.000	+.002 / -.000	0.172	+.005 / -.000	6.44
WY-00750	0.750	+.000 / -.002	0.750	1.250	0.218	1.187	+.002 / -.000	1.250	+.002 / -.000	0.234	+.005 / -.000	6.63
WY-00875	0.875	+.000 / -.002	0.875	1.375	0.218	1.312	+.002 / -.000	1.375	+.002 / -.000	0.234	+.005 / -.000	6.71
WY-01000	1.000	+.000 / -.002	1.000	1.500	0.218	1.437	+.002 / -.000	1.500	+.002 / -.000	0.234	+.005 / -.000	6.83
WY-01125*	1.125	+.000 / -.002	1.125	1.625	0.218	1.562	+.002 / -.000	1.625	+.002 / -.000	0.234	+.005 / -.000	6.87
WY-01250	1.250	+.000 / -.002	1.250	1.750	0.218	1.687	+.002 / -.000	1.750	+.002 / -.000	0.234	+.005 / -.000	7.02
WY-01375	1.375	+.000 / -.002	1.375	1.875	0.218	1.812	+.002 / -.000	1.875	+.002 / -.000	0.234	+.005 / -.000	7.10
WY-01500	1.500	+.000 / -.002	1.500	2.000	0.218	1.937	+.002 / -.000	2.000	+.002 / -.000	0.234	+.005 / -.000	7.22
WY-01625*	1.625	+.000 / -.002	1.625	2.125	0.218	2.062	+.002 / -.000	2.125	+.002 / -.000	0.234	+.005 / -.000	7.61
WY-01750	1.750	+.000 / -.002	1.750	2.250	0.218	2.187	+.002 / -.000	2.250	+.002 / -.000	0.234	+.005 / -.000	7.80
WY-01875*	1.875	+.000 / -.002	1.875	2.375	0.218	2.312	+.002 / -.000	2.375	+.002 / -.000	0.234	+.005 / -.000	8.00
WY-02000	2.000	+.000 / -.002	2.000	2.500	0.218	2.437	+.002 / -.000	2.500	+.002 / -.000	0.234	+.005 / -.000	8.97
WY-02125*	2.125	+.000 / -.002	2.125	2.625	0.218	2.562	+.002 / -.000	2.625	+.002 / -.000	0.234	+.005 / -.000	8.97
WY-02250*	2.250	+.000 / -.002	2.250	2.750	0.218	2.687	+.002 / -.000	2.750	+.002 / -.000	0.234	+.005 / -.000	9.17
WY-02500*	2.500	+.000 / -.002	2.500	3.000	0.218	2.937	+.002 / -.000	3.000	+.002 / -.000	0.234	+.005 / -.000	9.56
WY-02750	2.750	+.000 / -.002	2.750	3.250	0.218	3.187	+.002 / -.000	3.250	+.002 / -.000	0.234	+.005 / -.000	11.31
WY-03000	3.000	+.000 / -.002	3.000	3.500	0.218	3.437	+.002 / -.000	3.500	+.002 / -.000	0.234	+.005 / -.000	11.70
WY-03250*	3.250	+.000 / -.002	3.250	3.750	0.218	3.687	+.002 / -.000	3.750	+.002 / -.000	0.234	+.005 / -.000	12.09
WY-03500*	3.500	+.000 / -.002	3.500	4.000	0.218	3.937	+.002 / -.000	4.000	+.002 / -.000	0.234	+.005 / -.000	12.68
WY-03750*	3.750	+.000 / -.002	3.750	4.250	0.218	4.187	+.002 / -.000	4.250	+.002 / -.000	0.234	+.005 / -.000	15.41
WY-04000	4.000	+.000 / -.002	4.000	4.500	0.218	4.375	+.002 / -.000	4.500	+.002 / -.000	0.234	+.005 / -.000	15.99

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

	UR	B	2
	BS	B	9
	BS/SL	B	15
	BS/3L	B	17
	621 Profile Engineering	B	18
	621	B	19
	DZ	B	21
	ZA	B	22
	BR	B	23
	HBY	B	24
	RBS	B	24
	RSS	B	25
	R2B	B	31
	TR	B	33

UR - Rod Seals





STD Polyurethane AU 92A — **Temp.: -20/220F [-30/100C]** — **Pressure: 5000 PSI [345 BAR]**
9250 Polyurethane AU 92A — **Temp.: -65/300F [-54/149C]** — **Pressure: 6000 PSI [415 BAR]**
4615 Polyurethane AU 90A — **Temp.: -65/200F [-54/93C]** — **Pressure: 5000 PSI [345 BAR]**

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
UR12500250-187	0.250	0.250	0.500	0.187	0.500	0.218	4.08*	---	4.53*
UR12500312	0.312	0.312	0.562	0.125	0.562	0.156	---	6.78*	---
UR12500375	0.375	0.375	0.625	0.125	0.625	0.156	---	7.07	---
UR12500437	0.437	0.437	0.687	0.125	0.687	0.156	4.21*	---	4.67*
UR12500500	0.500	0.500	0.750	0.125	0.750	0.156	4.21*	7.46*	4.67*
UR12500500-187	0.500	0.500	0.750	0.187	0.750	0.218	4.47*	---	4.96*
UR12500500-250	0.500	0.500	0.750	0.250	0.750	0.281	4.47*	---	4.97*
UR18700562	0.562	0.562	0.937	0.187	0.937	0.218	---	9.11*	---
UR18700562-250	0.562	0.562	0.937	0.250	0.937	0.281	---	15.69*	---
UR18700562-312	0.562	0.562	0.937	0.312	0.937	0.343	---	7.36*	---
UR12500625	0.625	0.625	0.875	0.125	0.875	0.156	---	7.46*	---
UR12500625-187	0.625	0.625	0.875	0.187	0.875	0.218	---	8.13*	---
UR12500625-250	0.625	0.625	0.875	0.250	0.875	0.281	4.62*	7.46*	5.13*
UR18700625	0.625	0.625	1.000	0.187	1.000	0.218	---	7.36	---
UR18700625-250	0.625	0.625	1.000	0.250	1.000	0.281	---	7.46*	---
UR18700625-312	0.625	0.625	1.000	0.312	1.000	0.343	---	7.75*	---
UR18700687	0.687	0.687	1.062	0.187	1.062	0.218	4.72*	7.65	5.24*
UR18700687-250	0.687	0.687	1.062	0.250	1.062	0.281	---	7.75*	---
UR18700687-312	0.687	0.687	1.062	0.312	1.062	0.343	---	8.04*	---
UR09400750-187	0.750	0.750	0.937	0.187	0.937	0.218	---	8.14	---
UR12500750	0.750	0.750	1.000	0.125	1.000	0.156	---	6.92*	---
UR12500750-155	0.750	0.750	1.000	0.155	1.000	0.186	---	8.62*	---
UR12500750-187	0.750	0.750	1.000	0.187	1.000	0.218	---	7.75*	---

*** : 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
UR12500750-250	0.750	0.750	1.000	0.250	1.000	0.281	4.76*	8.22*	5.29
UR18700750	0.750	0.750	1.125	0.187	1.125	0.218	---	8.04	---
UR18700750-250	0.750	0.750	1.125	0.250	1.125	0.281	---	8.04*	---
UR18700750-312	0.750	0.750	1.125	0.312	1.125	0.343	4.89*	8.33*	5.44*
UR25000750	0.750	0.750	1.250	0.250	1.250	0.281	3.24*	---	3.60*
UR12500812-187	0.812	0.812	1.062	0.187	1.062	0.218	---	7.85*	---
UR18700812	0.812	0.812	1.187	0.187	1.187	0.218	5.13*	---	5.70*
UR18700812-250	0.812	0.812	1.187	0.250	1.187	0.281	---	8.43*	---
UR18700812-312	0.812	0.812	1.187	0.312	1.187	0.343	---	9.01*	---
UR12500875	0.875	0.875	1.125	0.125	1.125	0.156	---	7.82*	---
UR12500875-187	0.875	0.875	1.125	0.187	1.125	0.218	---	8.04*	---
UR12500875-250	0.875	0.875	1.125	0.250	1.125	0.281	4.96*	8.04*	5.51*
UR18700875	0.875	0.875	1.250	0.187	1.250	0.218	---	7.31*	---
UR18700875-250	0.875	0.875	1.250	0.250	1.250	0.281	---	8.39	---
UR18700875-312	0.875	0.875	1.250	0.312	1.250	0.343	---	9.30*	---
UR12500937-187	0.937	0.937	1.187	0.187	1.187	0.218	---	8.14*	---
UR18700937-312	0.937	0.937	1.312	0.312	1.312	0.343	2.29*	---	2.55*
UR25000937-375	0.937	0.937	1.437	0.375	1.437	0.406	---	7.64	---
UR32800969-375	0.969	0.969	1.625	0.375	1.625	0.406	---	13.75*	---
UR12501000	1.000	1.000	1.250	0.125	1.250	0.156	---	8.44	---
UR12501000-155	1.000	1.000	1.250	0.155	1.250	0.186	---	8.43*	---
UR12501000-250	1.000	1.000	1.250	0.250	1.250	0.281	5.82*	8.43	6.46
UR18701000	1.000	1.000	1.375	0.187	1.375	0.218	---	9.01*	---
UR18701000-250	1.000	1.000	1.375	0.250	1.375	0.281	5.82*	9.20*	6.46
UR18701000-312	1.000	1.000	1.375	0.312	1.375	0.343	5.82*	9.20*	6.46*
UR25001000	1.000	1.000	1.500	0.250	1.500	0.281	5.60*	7.64*	6.22
UR25001000-312	1.000	1.000	1.500	0.312	1.500	0.343	---	7.79*	---
UR25001000-375	1.000	1.000	1.500	0.375	1.500	0.406	5.83*	9.98*	6.47
UR29701031-375	1.031	1.031	1.625	0.375	1.625	0.406	---	12.89*	---
UR18701062-312	1.062	1.062	1.437	0.312	1.437	0.343	---	9.78	---
UR18701125-250	1.125	1.125	1.500	0.250	1.500	0.281	6.01*	9.59*	6.68
UR18701125-312	1.125	1.125	1.500	0.312	1.500	0.343	6.01*	9.98*	6.68
UR18701125-375	1.125	1.125	1.500	0.375	1.500	0.406	---	7.87*	---
UR25001125	1.125	1.125	1.625	0.250	1.625	0.281	---	9.70*	---
UR25001125-375	1.125	1.125	1.625	0.375	1.625	0.406	---	10.07*	---
UR31201125	1.125	1.125	1.750	0.312	1.750	0.343	---	11.92*	---
UR18701187-250	1.187	1.187	1.562	0.250	1.562	0.281	---	9.98*	---
UR18701187-312	1.187	1.187	1.562	0.312	1.562	0.343	6.21*	---	6.90*
UR12501250-250	1.250	1.250	1.500	0.250	1.500	0.281	6.18*	9.11	6.86*
UR18701250-250	1.250	1.250	1.625	0.250	1.625	0.281	6.54*	10.17*	7.27
UR18701250-312	1.250	1.250	1.625	0.312	1.625	0.343	6.54*	10.46	7.27
UR18701250-375	1.250	1.250	1.625	0.375	1.625	0.406	---	10.80*	---
UR25001250	1.250	1.250	1.750	0.250	1.750	0.281	---	9.42*	---
UR25001250-312	1.250	1.250	1.750	0.312	1.750	0.343	---	9.42	---
UR25001250-375	1.250	1.250	1.750	0.375	1.750	0.406	6.16*	9.98	6.85*
UR31201250-437	1.250	1.250	1.875	0.437	1.875	0.468	---	12.21	---
UR25001312-375	1.312	1.312	1.812	0.375	1.812	0.406	---	10.95*	---
UR12501375-250	1.375	1.375	1.625	0.250	1.625	0.281	6.79*	10.55	7.55

*** : 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
UR18701375-250	1.375	1.375	1.750	0.250	1.750	0.281	6.96*	---	7.73
UR18701375-312	1.375	1.375	1.750	0.312	1.750	0.343	6.96*	12.21	7.73
UR18701375-375	1.375	1.375	1.750	0.375	1.750	0.406	---	12.59	---
UR25001375-312	1.375	1.375	1.875	0.312	1.875	0.343	---	11.04*	---
UR25001375-375	1.375	1.375	1.875	0.375	1.875	0.406	6.78*	11.24*	7.53
UR31201375-375	1.375	1.375	2.000	0.375	2.000	0.406	---	11.22	---
UR18701500-250	1.500	1.500	1.875	0.250	1.875	0.281	7.07*	10.66	7.85
UR18701500-312	1.500	1.500	1.875	0.312	1.875	0.343	7.07*	11.04	7.85
UR18701500-375	1.500	1.500	1.875	0.375	1.875	0.406	7.07*	11.53	7.85
UR25001500-312	1.500	1.500	2.000	0.312	2.000	0.343	6.93*	11.22*	7.70
UR25001500-375	1.500	1.500	2.000	0.375	2.000	0.406	6.93*	12.21	7.70
UR31201500-500	1.500	1.500	2.125	0.500	2.125	0.531	---	14.43	---
UR18701625-250	1.625	1.625	2.000	0.250	2.000	0.281	7.18*	10.95*	7.97
UR18701625-312	1.625	1.625	2.000	0.312	2.000	0.343	---	11.43	---
UR18701625-375	1.625	1.625	2.000	0.375	2.000	0.406	7.18*	11.91	7.97*
UR25001625-312	1.625	1.625	2.125	0.312	2.125	0.343	---	12.31*	---
UR25001625-375	1.625	1.625	2.125	0.375	2.125	0.406	7.65*	12.89*	8.50*
UR18701687-279	1.687	1.687	2.062	0.279	2.062	0.310	---	12.40*	---
UR18701750-250	1.750	1.750	2.125	0.250	2.125	0.281	7.33*	11.63	8.14*
UR18701750-274	1.750	1.750	2.125	0.274	2.125	0.305	---	12.21*	---
UR18701750-312	1.750	1.750	2.125	0.312	2.125	0.343	---	12.30	---
UR18701750-375	1.750	1.750	2.125	0.375	2.125	0.406	7.33*	12.59	8.14
UR25001750	1.750	1.750	2.250	0.250	2.250	0.281	---	13.08	---
UR25001750-312	1.750	1.750	2.250	0.312	2.250	0.343	---	13.27*	---
UR25001750-375	1.750	1.750	2.250	0.375	2.250	0.406	7.64*	13.47	8.48
UR25001750-500	1.750	1.750	2.250	0.500	2.250	0.531	---	15.09	---
UR31201750-375	1.750	1.750	2.375	0.375	2.375	0.406	---	15.50	---
UR31201750-500	1.750	1.750	2.375	0.500	2.375	0.531	---	15.89	---
UR12501875-250	1.875	1.875	2.125	0.250	2.125	0.281	---	9.20	---
UR18701875-312	1.875	1.875	2.250	0.312	2.250	0.343	---	24.57	---
UR18701875-375	1.875	1.875	2.250	0.375	2.250	0.406	---	13.66	---
UR25001875-312	1.875	1.875	2.375	0.312	2.375	0.343	---	24.22*	---
UR25001875-375	1.875	1.875	2.375	0.375	2.375	0.406	---	30.05*	---
UR18702000-250	2.000	2.000	2.375	0.250	2.375	0.281	---	13.80*	---
UR18702000-312	2.000	2.000	2.375	0.312	2.375	0.343	7.93*	13.47	8.81
UR18702000-375	2.000	2.000	2.375	0.375	2.375	0.406	7.93*	13.75	8.81
UR25002000-312	2.000	2.000	2.500	0.312	2.500	0.343	---	14.49	---
UR25002000-375	2.000	2.000	2.500	0.375	2.500	0.406	8.29*	14.72	9.21
UR31202000-250	2.000	2.000	2.625	0.250	2.625	0.281	---	17.83*	---
UR31202000	2.000	2.000	2.625	0.312	2.625	0.343	---	17.15*	---
UR31202000-375	2.000	2.000	2.625	0.375	2.625	0.406	---	14.06*	---
UR37502000	2.000	2.000	2.750	0.375	2.750	0.406	---	15.03	---
UR37502000-500	2.000	2.000	2.750	0.500	2.750	0.531	---	15.03*	---
UR37502000-625	2.000	2.000	2.750	0.625	2.750	0.656	---	24.22*	---
UR25002125-312	2.125	2.125	2.625	0.312	2.625	0.343	---	15.50*	---
UR25002125-375	2.125	2.125	2.625	0.375	2.625	0.406	---	21.19	---
UR31202125-500	2.125	2.125	2.750	0.500	2.750	0.531	---	19.08	---
UR18702250-281	2.250	2.250	2.625	0.281	2.625	0.312	8.91*	---	9.91

*** : 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
UR18702250-312	2.250	2.250	2.625	0.312	2.625	0.343	---	14.67*	---
UR18702250-375	2.250	2.250	2.625	0.375	2.625	0.406	---	14.82	---
UR25002250-312	2.250	2.250	2.750	0.312	2.750	0.343	---	15.89	---
UR25002250-375	2.250	2.250	2.750	0.375	2.750	0.406	9.51*	16.66	10.57*
UR28202250-375	2.250	2.250	2.813	0.375	2.813	0.406	---	16.28*	---
UR31202250-375	2.250	2.250	2.875	0.375	2.875	0.406	---	19.18*	---
UR31202250-500	2.250	2.250	2.875	0.500	2.875	0.531	11.06*	19.57*	12.29
UR25002375-312	2.375	2.375	2.875	0.312	2.875	0.343	---	16.95	---
UR25002375-375	2.375	2.375	2.875	0.375	2.875	0.406	---	14.67	---
UR31202375-375	2.375	2.375	3.000	0.375	3.000	0.406	---	15.03	---
UR31202375-500	2.375	2.375	3.000	0.500	3.000	0.531	---	15.87*	---
UR18702500-312	2.500	2.500	2.875	0.312	2.875	0.343	---	20.41*	---
UR18702500-375	2.500	2.500	2.875	0.375	2.875	0.406	9.90*	16.37	11.00*
UR25002500	2.500	2.500	3.000	0.250	3.000	0.281	---	15.03	---
UR25002500-312	2.500	2.500	3.000	0.312	3.000	0.343	---	15.03	---
UR25002500-375	2.500	2.500	3.000	0.375	3.000	0.406	10.80*	18.31	12.00*
UR31202500-375	2.500	2.500	3.125	0.375	3.125	0.406	---	20.63*	---
UR31202500-437	2.500	2.500	3.125	0.437	3.125	0.468	---	20.92	---
UR31202500-500	2.500	2.500	3.125	0.500	3.125	0.531	12.29*	21.21	13.65
UR37502500-400	2.500	2.500	3.250	0.400	3.250	0.430	---	28.97*	---
UR25002625-375	2.625	2.625	3.125	0.375	3.125	0.406	---	15.34	---
UR31202625-625	2.625	2.625	3.250	0.625	3.250	0.656	---	28.49	---
UR37502625-625	2.625	2.625	3.375	0.625	3.375	0.656	---	30.90*	---
UR25002750-375	2.750	2.750	3.250	0.375	3.250	0.406	11.63*	20.44	12.92*
UR31202750-375	2.750	2.750	3.375	0.375	3.375	0.406	---	17.77*	---
UR31202750-500	2.750	2.750	3.375	0.500	3.375	0.531	---	23.15*	---
UR37502750	2.750	2.750	3.500	0.375	3.500	0.406	---	34.10*	---
UR37502750-625	2.750	2.750	3.500	0.625	3.500	0.656	---	25.67	---
UR21803000-312	3.000	3.000	3.437	0.312	3.437	0.343	10.35*	---	---
UR25003000-375	3.000	3.000	3.500	0.375	3.500	0.406	15.30*	21.55	17.00*
UR31203000-375	3.000	3.000	3.625	0.375	3.625	0.406	---	18.49*	---
UR31203000-500	3.000	3.000	3.625	0.500	3.625	0.531	14.27*	24.80*	15.85
UR37503000	3.000	3.000	3.750	0.375	3.750	0.406	---	19.99	---
UR37503000-500	3.000	3.000	3.750	0.500	3.750	0.531	---	34.49	---
UR37503000-562	3.000	3.000	3.750	0.562	3.750	0.594	---	34.87*	---
UR37503000-625	3.000	3.000	3.750	0.625	3.750	0.656	---	20.24	---
UR25003125-375	3.125	3.125	3.625	0.375	3.625	0.406	---	25.09*	---
UR31203125-375	3.125	3.125	3.750	0.375	3.750	0.406	12.42*	24.80*	13.79*
UR37503125-625	3.125	3.125	3.875	0.625	3.875	0.656	---	36.14	---
UR25003250-375	3.250	3.250	3.750	0.375	3.750	0.406	13.74*	23.05	15.27*
UR31203250-500	3.250	3.250	3.875	0.500	3.875	0.531	---	26.93	---
UR37503250-500	3.250	3.250	4.000	0.500	4.000	0.531	---	25.28*	---
UR37503250-625	3.250	3.250	4.000	0.625	4.000	0.656	---	37.10*	---
UR25003375-375	3.375	3.375	3.875	0.375	3.875	0.406	---	16.70*	---
UR31203375-375	3.375	3.375	4.000	0.375	4.000	0.406	---	23.35*	---
UR31203375-500	3.375	3.375	4.000	0.500	4.000	0.531	---	21.55*	---
UR31203375-625	3.375	3.375	4.000	0.625	4.000	0.656	---	37.43	---
UR25003500-375	3.500	3.500	4.000	0.375	4.000	0.406	14.80*	24.80	16.44*

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UR SERIES - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$		
		d	D	H	D1	H1	STD	9250	4615
UR31203500-500	3.500	3.500	4.125	0.500	4.125	0.531	15.00*	---	16.67*
UR37503500	3.500	3.500	4.250	0.375	4.250	0.406	---	23.43*	---
UR37503500-500	3.500	3.500	4.250	0.500	4.250	0.531	22.19*	23.43*	24.66
UR37503500-625	3.500	3.500	4.250	0.625	4.250	0.656	22.19*	38.46*	24.66
UR50003500	3.500	3.500	4.500	0.500	4.500	0.531	---	30.32*	---
UR50003500-625	3.500	3.500	4.500	0.625	4.500	0.656	---	51.44*	---
UR50003500-750	3.500	3.500	4.500	0.750	4.500	0.781	---	52.70*	---
UR37503625	3.625	3.625	4.375	0.375	4.375	0.406	---	23.43*	---
UR37503625-500	3.625	3.625	4.375	0.500	4.375	0.531	---	37.78*	---
UR25003750-375	3.750	3.750	4.250	0.375	4.250	0.406	---	31.06	---
UR25003750-590	3.750	3.750	4.250	0.590	4.250	0.620	---	42.07*	---
UR31203750-375	3.750	3.750	4.375	0.375	4.375	0.406	---	30.81*	---
UR31203750-500	3.750	3.750	4.375	0.500	4.375	0.531	---	26.82*	---
UR37503750-500	3.750	3.750	4.500	0.500	4.500	0.531	---	39.43*	---
UR25003875-375	3.875	3.875	4.375	0.375	4.375	0.406	---	28.00*	---
UR43703875-750	3.875	3.875	4.750	0.750	4.750	0.781	---	46.59	---
UR25004000	4.000	4.000	4.500	0.250	4.500	0.281	---	25.48*	---
UR25004000-375	4.000	4.000	4.500	0.375	4.500	0.406	15.85*	28.38	17.61*
UR25004000-562	4.000	4.000	4.500	0.562	4.500	0.593	15.85*	22.39	17.61
UR31204000-375	4.000	4.000	4.625	0.375	4.625	0.406	---	32.06	---
UR31204000-500	4.000	4.000	4.625	0.500	4.625	0.531	---	26.82	---
UR37504000	4.000	4.000	4.750	0.375	4.750	0.406	---	26.82	---
UR37504000-500	4.000	4.000	4.750	0.500	4.750	0.531	---	26.82*	---
UR37504000-625	4.000	4.000	4.750	0.625	4.750	0.656	24.41*	44.71	27.13*
UR37504125-500	4.125	4.125	4.875	0.500	4.875	0.531	---	35.46*	---
UR25004250-562	4.250	4.250	4.750	0.562	4.750	0.594	---	32.06*	---
UR37504250-500	4.250	4.250	5.000	0.500	5.000	0.531	24.84*	44.08*	---
UR37504250-625	4.250	4.250	5.000	0.625	5.000	0.656	---	27.17	---
UR37504375	4.375	4.375	5.125	0.375	5.125	0.406	18.35*	---	20.39*
UR37504375-500	4.375	4.375	5.125	0.500	5.125	0.531	---	37.36*	---
UR25004500-562	4.500	4.500	5.000	0.562	5.000	0.594	---	26.49	---
UR31204500-375	4.500	4.500	5.125	0.375	5.125	0.406	---	30.91	---
UR31204500-500	4.500	4.500	5.125	0.500	5.125	0.531	20.69*	36.23*	22.99*
UR37504500-500	4.500	4.500	5.250	0.500	5.250	0.531	---	28.13*	---
UR37504500-625	4.500	4.500	5.250	0.625	5.250	0.656	---	27.90	---
UR43704500	4.500	4.500	5.375	0.437	5.375	0.468	---	40.77	---
UR31204625-625	4.625	4.625	5.250	0.625	5.250	0.656	---	29.90	---
UR37504625-500	4.625	4.625	5.375	0.500	5.375	0.531	---	41.17*	---
UR25004750-562	4.750	4.750	5.250	0.562	5.250	0.593	19.77*	35.36	21.96*
UR37504750-500	4.750	4.750	5.500	0.500	5.500	0.531	---	50.28	---
UR37504750-625	4.750	4.750	5.500	0.625	5.500	0.656	28.16*	50.37	31.29*
UR43704750-750	4.750	4.750	5.625	0.750	5.625	0.781	---	54.64	---
UR37504875-500	4.875	4.875	5.625	0.500	5.625	0.531	---	47.69	---
UR37504875-625	4.875	4.875	5.625	0.625	5.625	0.656	---	44.95*	---
UR25005000-562	5.000	5.000	5.500	0.562	5.500	0.594	---	33.53	---
UR28105000-500	5.000	5.000	5.562	0.500	5.562	0.531	22.19*	---	24.66*
UR31205000-375	5.000	5.000	5.625	0.375	5.625	0.406	---	41.66	---
UR31205000-500	5.000	5.000	5.625	0.500	5.625	0.531	---	41.95*	---

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Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$		
		d	D	H	D1	H1	STD	9250	4615
UR37505000-500	5.000	5.000	5.750	0.500	5.750	0.531	---	52.79	---
UR37505000-625	5.000	5.000	5.750	0.625	5.750	0.656	27.74*	52.79	30.83*
UR25005250-562	5.250	5.250	5.750	0.562	5.750	0.594	---	41.27*	---
UR25005250-590	5.250	5.250	5.750	0.590	5.750	0.620	---	60.91	---
UR31205250-625	5.250	5.250	5.875	0.625	5.875	0.656	---	49.24	---
UR25005375-562	5.375	5.375	5.875	0.562	5.875	0.593	---	42.91*	---
UR37505375-625	5.375	5.375	6.125	0.625	6.125	0.656	---	51.63*	---
UR25005500-562	5.500	5.500	6.000	0.562	6.000	0.594	---	44.37	---
UR31205500-375	5.500	5.500	6.125	0.375	6.125	0.406	---	47.76	---
UR31205500-500	5.500	5.500	6.125	0.500	6.125	0.531	---	47.95*	---
UR37505500-500	5.500	5.500	6.250	0.500	6.250	0.531	---	51.25*	---
UR37505500-625	5.500	5.500	6.250	0.625	6.250	0.656	---	58.41	---
UR46505570-625	5.570	5.570	6.500	0.625	6.500	0.656	---	60.55*	---
UR25005750-562	5.750	5.750	6.250	0.562	6.250	0.594	---	53.28*	---
UR37505750-500	5.750	5.750	6.500	0.500	6.500	0.531	---	59.09*	---
UR37505750-625	5.750	5.750	6.500	0.625	6.500	0.656	---	57.95	---
UR25006000-562	6.000	6.000	6.500	0.562	6.500	0.594	---	48.92*	---
UR37506000-500	6.000	6.000	6.750	0.500	6.750	0.531	---	63.16	---
UR37506000-625	6.000	6.000	6.750	0.625	6.750	0.656	---	60.80	---
UR37506250-625	6.250	6.250	7.000	0.625	7.000	0.656	---	64.13*	---
UR25006500-375	6.500	6.500	7.000	0.375	7.000	0.406	---	52.61*	---
UR31206500-625	6.500	6.500	7.125	0.625	7.125	0.656	---	56.19	---
UR37506500-500	6.500	6.500	7.250	0.500	7.250	0.531	---	66.46	---
UR37506500-625	6.500	6.500	7.250	0.625	7.250	0.656	---	79.71*	---
UR50006500-715	6.500	6.500	7.500	0.715	7.500	0.745	---	82.35	---
UR50006500-750	6.500	6.500	7.500	0.750	7.500	0.781	---	83.99	---
UR25006750-590	6.750	6.750	7.250	0.590	7.250	0.620	---	78.95	---
UR37506750-590	6.750	6.750	7.500	0.590	7.500	0.620	---	68.68*	---
UR25007000-562	7.000	7.000	7.500	0.562	7.500	0.594	---	56.86*	---
UR37507000-500	7.000	7.000	7.750	0.500	7.750	0.531	---	72.42	---
UR37507000-625	7.000	7.000	7.750	0.625	7.750	0.656	---	78.33	---
UR50007000-625	7.000	7.000	8.000	0.625	8.000	0.656	---	89.80*	---
UR50007000-690	7.000	7.000	8.000	0.690	8.000	0.720	---	84.20*	---
UR50007000-750	7.000	7.000	8.000	0.750	8.000	0.781	---	85.02	---
UR37507250-625	7.250	7.250	8.000	0.625	8.000	0.656	---	71.65*	---
UR37507500-500	7.500	7.500	8.250	0.500	8.250	0.531	31.14*	75.37*	34.60*
UR37507500-625	7.500	7.500	8.250	0.625	8.250	0.656	---	67.50*	---
UR62507500-1000	7.500	7.500	8.750	1.000	8.750	1.031	---	129.14*	---
UR25008125-590	8.125	8.125	8.625	0.590	8.625	0.620	---	68.30*	---
UR37508250-625	8.250	8.250	9.000	0.625	9.000	0.656	---	99.98*	---
UR37508500-500	8.500	8.500	9.250	0.500	9.250	0.531	---	91.69*	---
UR50008500	8.500	8.500	9.500	0.500	9.500	0.531	---	100.72*	---
UR37509000-590	9.000	9.000	9.750	0.590	9.750	0.620	---	95.52*	---
UR37509000-625	9.000	9.000	9.750	0.625	9.750	0.656	---	100.66*	---
UR50009000-625	9.000	9.000	10.000	0.625	10.000	0.656	---	95.27	---
UR50009000-750	9.000	9.000	10.000	0.750	10.000	0.781	---	109.32*	---
UR50009500-625	9.500	9.500	10.500	0.625	10.500	0.656	---	118.18*	---
UR50009500-750	9.500	9.500	10.500	0.750	10.500	0.781	---	120.99*	---

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UR SERIES - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$		
		d	D	H	D1	H1	STD	9250	4615
UR25409750-590	9.750	9.750	10.258	0.590	10.258	0.620	---	86.32*	---
UR37509750-625	9.750	9.750	10.500	0.625	10.500	0.656	---	119.26*	---
UR50010000-625	10.000	10.000	11.000	0.625	11.000	0.656	---	114.56*	---
UR50010000-750	10.000	10.000	11.000	0.750	11.000	0.781	---	190.42	---
UR50012000-625	12.000	12.000	13.000	0.625	13.000	0.656	---	194.42*	---
UR50012000-690	12.000	12.000	13.000	0.690	13.000	0.720	---	199.96*	---
UR50012000-750	12.000	12.000	13.000	0.750	13.000	0.781	---	159.36	---
UR56215000-750	15.000	15.000	16.125	0.750	16.125	0.781	---	344.86*	---
UR56215000-1000	15.000	15.000	16.125	1.000	16.125	1.031	---	320.84*	---

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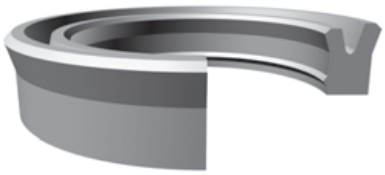
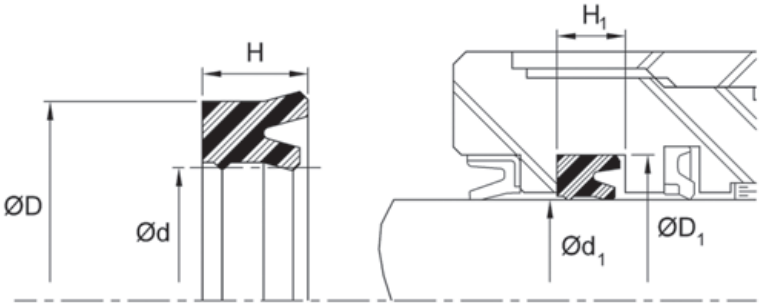
BS - Rod Seals





STD Polyurethane AU 92A — **Temp.: -20/220F [-30/100C]** — **Pressure: 5800 PSI [400 BAR]**
605 Hythane AU 92A — **Temp.: -50/230F [-45/110C]** — **Pressure: 6000 PSI [415 BAR]**
9250 Polyurethane AU 92A — **Temp.: -65/300F [-54/149C]** — **Pressure: 6000 PSI [415 BAR]**
4700/4693 Polyurethane AU 90A — **Temp.: -65/200F [-54/107C]** — **Pressure: 5000 PSI [344 BAR]**
4300 Polyurethane AU 90A — **Temp.: -65/275F [-54/135C]** — **Pressure: 5000 PSI [344 BAR]**

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

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	605	4xxx
BS12500375-198	0.375	0.375	0.625	0.198	0.625	0.218	---	---	6.14	---
BS18700375-312	0.375	0.375	0.750	0.312	0.750	0.343	---	---	6.14	---
BS12500500-187	0.500	0.500	0.750	0.187	0.750	0.206	---	---	5.86	---
BS12500500-250	0.500	0.500	0.750	0.250	0.750	0.281	6.95*	---	---	7.73
BS25000500-375	0.500	0.500	1.000	0.375	1.000	0.406	7.10*	---	---	---
BS12500562-187	0.562	0.562	0.812	0.187	0.812	0.206	---	---	7.73*	---
BS12500562-250	0.562	0.562	0.812	0.250	0.812	0.281	7.14*	---	---	7.94*
BS12500625-187	0.625	0.625	0.875	0.187	0.875	0.218	7.24*	---	6.14	8.04*
BS12500625-241	0.625	0.625	0.875	0.241	0.875	0.265	---	---	6.14	---
BS12500625-250	0.625	0.625	0.875	0.250	0.875	0.281	7.24*	---	---	8.04
BS18700625-281	0.625	0.625	1.000	0.281	1.000	0.309	---	---	6.14	---
BS12500687-187	0.687	0.687	0.937	0.187	0.937	0.206	---	---	6.14	---
BS09300750-156	0.750	0.750	0.937	0.156	0.937	0.171	---	---	6.16	---
BS12500750	0.750	0.750	1.000	0.125	1.000	0.138	---	---	6.14	---
BS12500750-187	0.750	0.750	1.000	0.187	1.000	0.218	7.53*	---	6.14	8.36*
BS12500750-250	0.750	0.750	1.000	0.250	1.000	0.275	---	8.50	6.09	---
BS18700750-250	0.750	0.750	1.125	0.250	1.125	0.281	---	8.39	---	---
BS18700750-312	0.750	0.750	1.125	0.312	1.125	0.343	7.72	7.62*	7.58	---
BS12500812-187	0.812	0.812	1.062	0.187	1.062	0.206	---	---	6.14*	---
BS12500812-250	0.812	0.812	1.062	0.250	1.062	0.275	---	---	6.14*	---
BS12500875-187	0.875	0.875	1.125	0.187	1.125	0.218	7.83*	---	5.94	8.70

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BS SERIES - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	605	4xxx
BS12500875-250	0.875	0.875	1.125	0.250	1.125	0.281	7.65*	---	5.95	8.50*
BS18700875-250	0.875	0.875	1.250	0.250	1.250	0.281	8.08*	---	---	8.97*
BS25000875-341	0.875	0.875	1.375	0.341	1.375	0.375	---	---	6.03*	---
BS18700937-312	0.937	0.937	1.312	0.312	1.312	0.343	8.12*	---	---	---
BS12001000-187	1.000	1.000	1.240	0.187	1.240	0.206	---	---	6.58	---
BS12501000-187	1.000	1.000	1.250	0.187	1.250	0.218	8.12*	---	6.60	9.02
BS12501000-250	1.000	1.000	1.250	0.250	1.250	0.281	8.12	7.52*	6.50	---
BS15601000-218	1.000	1.000	1.312	0.219	1.312	0.241	---	---	6.68	---
BS15601000-250	1.000	1.000	1.312	0.250	1.312	0.281	7.94*	---	---	8.82*
BS18701000-250	1.000	1.000	1.375	0.250	1.375	0.275	---	7.54	7.05	---
BS18701000-312	1.000	1.000	1.375	0.312	1.375	0.343	8.71	9.95	6.95	---
BS25001000-255	1.000	1.000	1.500	0.255	1.500	0.281	---	---	6.86	---
BS25001000-341	1.000	1.000	1.500	0.341	1.500	0.375	---	---	6.99	---
BS25001000-375	1.000	1.000	1.500	0.375	1.500	0.413	---	7.64	7.55	---
BS12001062-187	1.062	1.062	1.302	0.187	1.302	0.206	---	---	6.65	---
BS12501062-187	1.062	1.062	1.312	0.187	1.312	0.206	---	---	6.65	---
BS12501062-250	1.062	1.062	1.312	0.250	1.312	0.275	---	---	6.65*	---
BS12001125-187	1.125	1.125	1.365	0.192	1.365	0.211	---	---	6.82	---
BS12501125-187	1.125	1.125	1.375	0.187	1.375	0.218	8.24*	---	6.82	9.16*
BS12501125-250	1.125	1.125	1.375	0.250	1.375	0.275	---	---	6.82	---
BS13701125-187	1.125	1.125	1.399	0.187	1.399	0.206	---	---	6.82*	---
BS18701125-250	1.125	1.125	1.500	0.250	1.500	0.281	---	9.60	---	---
BS18701125-312	1.125	1.125	1.500	0.312	1.500	0.343	---	7.87	6.61	---
BS21801125-325	1.125	1.125	1.562	0.325	1.562	0.360	---	---	7.07*	---
BS25001125	1.125	1.125	1.625	0.250	1.625	0.275	---	---	7.81	---
BS31201125-397	1.125	1.125	1.750	0.397	1.750	0.437	---	---	8.20*	---
BS18701187-250	1.187	1.187	1.562	0.250	1.562	0.275	---	---	6.98	---
BS12001250-197	1.250	1.250	1.491	0.197	1.491	0.217	---	---	7.12	---
BS12501250-187	1.250	1.250	1.500	0.187	1.500	0.218	8.81*	---	6.68	9.79
BS12501250-250	1.250	1.250	1.500	0.250	1.500	0.281	8.81*	---	7.08	---
BS18701250	1.250	1.250	1.625	0.187	1.625	0.206	---	---	7.52	---
BS18701250-227	1.250	1.250	1.625	0.227	1.625	0.250	---	---	7.52	---
BS18701250-250	1.250	1.250	1.625	0.250	1.625	0.275	---	10.72	7.47	---
BS18701250-312	1.250	1.250	1.625	0.312	1.625	0.343	9.28	10.88	7.47	---
BS18701250-375	1.250	1.250	1.625	0.375	1.625	0.406	9.78	8.85	---	---
BS25001250	1.250	1.250	1.750	0.250	1.750	0.275	---	---	7.68	---
BS25001250-375	1.250	1.250	1.750	0.375	1.750	0.413	---	9.42	7.81	---
BS31201250-397	1.250	1.250	1.875	0.397	1.875	0.437	---	---	8.34	---
BS12001375-197	1.375	1.375	1.616	0.197	1.616	0.217	---	---	7.40	---
BS12501375-187	1.375	1.375	1.625	0.187	1.625	0.218	8.50*	---	7.31	9.98*
BS12501375-250	1.375	1.375	1.625	0.250	1.625	0.281	9.17*	---	7.42	10.19
BS15601375-218	1.375	1.375	1.687	0.218	1.687	0.240	---	---	7.68	---
BS15601375-250	1.375	1.375	1.687	0.250	1.687	0.281	9.24*	---	---	10.27*
BS18701375	1.375	1.375	1.750	0.187	1.750	0.206	---	---	7.75	---
BS18701375-312	1.375	1.375	1.750	0.312	1.750	0.343	---	10.19	7.20	---
BS25001375-375	1.375	1.375	1.875	0.375	1.875	0.406	10.62*	10.21*	8.56	---
BS31201375-397	1.375	1.375	2.000	0.397	2.000	0.437	---	---	8.94	---
BS18701437-312	1.437	1.437	1.812	0.312	1.812	0.343	---	---	7.72	---

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Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	605	4xxx
BS12501500-187	1.500	1.500	1.750	0.187	1.750	0.218	9.57*	---	7.25	10.63*
BS12501500-250	1.500	1.500	1.750	0.250	1.750	0.275	---	---	7.62	---
BS18701500	1.500	1.500	1.875	0.187	1.875	0.206	---	---	7.73	---
BS18701500-250	1.500	1.500	1.875	0.250	1.875	0.275	---	10.19	8.02	---
BS18701500-295	1.500	1.500	1.875	0.295	1.875	0.323	---	---	8.24*	---
BS18701500-312	1.500	1.500	1.875	0.312	1.875	0.343	9.61	10.19	8.02	---
BS18701500-375	1.500	1.500	1.875	0.375	1.875	0.406	10.07*	10.19	8.02	---
BS25001500	1.500	1.500	2.000	0.250	2.000	0.275	---	---	9.24	---
BS25001500-341	1.500	1.500	2.000	0.341	2.000	0.375	---	---	9.24	---
BS25001500-375	1.500	1.500	2.000	0.375	2.000	0.406	11.46	11.22	9.13	---
BS31201500-375	1.500	1.500	2.125	0.375	2.125	0.413	---	---	9.98	---
BS31201500-397	1.500	1.500	2.125	0.397	2.125	0.437	---	---	9.98	---
BS12501625-250	1.625	1.625	1.875	0.250	1.875	0.275	---	---	8.05	---
BS18701625-281	1.625	1.625	2.000	0.281	2.000	0.309	---	---	9.24*	---
BS18701625-312	1.625	1.625	2.000	0.312	2.000	0.343	---	---	10.87	---
BS18701625-375	1.625	1.625	2.000	0.375	2.000	0.406	10.66*	11.45	10.43	---
BS25001625-375	1.625	1.625	2.125	0.375	2.125	0.406	12.00*	---	10.19	---
BS31201625-500	1.625	1.625	2.250	0.500	2.250	0.531	8.95*	---	---	---
BS12501750-187	1.750	1.750	2.000	0.187	2.000	0.218	10.34*	---	---	---
BS12501750-250	1.750	1.750	2.000	0.250	2.000	0.275	---	---	8.33	---
BS18401750-283	1.750	1.750	2.118	0.283	2.118	0.310	---	---	8.59*	---
BS18701750-250	1.750	1.750	2.125	0.250	2.125	0.275	---	---	7.78	---
BS18701750-312	1.750	1.750	2.125	0.312	2.125	0.343	---	11.63	8.53	---
BS18701750-375	1.750	1.750	2.125	0.375	2.125	0.406	11.31	11.63	8.59	---
BS25001750	1.750	1.750	2.250	0.250	2.250	0.275	---	---	10.23	---
BS25001750-312	1.750	1.750	2.250	0.312	2.250	0.343	---	12.63	---	---
BS25001750-341	1.750	1.750	2.250	0.341	2.250	0.375	---	---	10.23	---
BS25001750-375	1.750	1.750	2.250	0.375	2.250	0.406	12.63*	12.63	10.17	---
BS25001750-500	1.750	1.750	2.250	0.500	2.250	0.550	---	---	10.23	---
BS31201750-375	1.750	1.750	2.375	0.375	2.375	0.406	---	12.65*	---	---
BS31201750-437	1.750	1.750	2.375	0.437	2.375	0.481	---	12.65*	9.60	---
BS31201750-500	1.750	1.750	2.375	0.500	2.375	0.531	---	12.65*	---	---
BS18501875-281	1.875	1.875	2.246	0.281	2.246	0.310	---	---	11.56*	---
BS18701875-312	1.875	1.875	2.250	0.312	2.250	0.343	11.96*	---	---	13.29
BS18701875-375	1.875	1.875	2.250	0.375	2.250	0.406	11.96*	13.46	9.38	---
BS25001875-375	1.875	1.875	2.375	0.375	2.375	0.413	---	---	9.65	---
BS31201875-397	1.875	1.875	2.500	0.397	2.500	0.437	---	---	11.66*	---
BS12502000-187	2.000	2.000	2.250	0.187	2.250	0.218	9.50*	---	---	9.73*
BS12502000-250	2.000	2.000	2.250	0.250	2.250	0.275	---	---	7.29	---
BS18702000-250	2.000	2.000	2.375	0.250	2.375	0.275	---	---	10.16	---
BS18702000-281	2.000	2.000	2.375	0.281	2.375	0.310	12.59*	---	10.14	13.99*
BS18702000-312	2.000	2.000	2.375	0.312	2.375	0.343	---	13.80	10.04	---
BS18702000-375	2.000	2.000	2.375	0.375	2.375	0.413	---	13.80	9.21	---
BS25002000	2.000	2.000	2.500	0.250	2.500	0.275	---	---	11.16	---
BS25002000-312	2.000	2.000	2.500	0.312	2.500	0.343	---	---	10.46	---
BS25002000-341	2.000	2.000	2.500	0.341	2.500	0.375	---	---	11.16	---
BS25002000-375	2.000	2.000	2.500	0.375	2.500	0.406	13.85	14.50	11.06	---
BS25002000-781	2.000	2.000	2.500	0.781	2.500	0.859	---	---	12.46*	---

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BS SERIES - AU

Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	605	4xxx
BS31202000	2.000	2.000	2.625	0.312	2.625	0.343	---	---	12.35	---
BS31202000-397	2.000	2.000	2.625	0.397	2.625	0.437	---	---	12.35	---
BS31202000-500	2.000	2.000	2.625	0.500	2.625	0.531	16.66*	14.06*	12.35	---
BS37502000-625	2.000	2.000	2.750	0.625	2.750	0.688	---	---	16.77	---
BS18702125-250	2.125	2.125	2.500	0.250	2.500	0.281	13.58*	---	---	---
BS18702125-375	2.125	2.125	2.500	0.375	2.500	0.406	14.08*	---	10.89	15.64*
BS25002125-375	2.125	2.125	2.625	0.375	2.625	0.406	13.45*	---	---	14.95
BS18702250-312	2.250	2.250	2.625	0.312	2.625	0.343	---	14.68	---	---
BS18702250-335	2.250	2.250	2.625	0.335	2.625	0.368	---	---	11.31	---
BS18702250-375	2.250	2.250	2.625	0.375	2.625	0.406	14.08*	14.67	---	15.65*
BS25002250-341	2.250	2.250	2.750	0.341	2.750	0.375	---	---	12.02	---
BS25002250-375	2.250	2.250	2.750	0.375	2.750	0.406	14.57	15.43	12.37	---
BS31202250-375	2.250	2.250	2.875	0.375	2.875	0.406	14.60*	---	---	---
BS31202250-500	2.250	2.250	2.875	0.500	2.875	0.531	16.72*	---	13.92*	18.58
BS37502250-511	2.250	2.250	3.000	0.511	3.000	0.562	---	---	18.52	---
BS18702375-375	2.375	2.375	2.750	0.375	2.750	0.413	---	---	12.07	---
BS25002375-375	2.375	2.375	2.875	0.375	2.875	0.413	---	14.67	12.88	---
BS18502500-281	2.500	2.500	2.871	0.281	2.871	0.310	---	---	14.24*	---
BS18702500-281	2.500	2.500	2.875	0.281	2.875	0.310	14.85*	---	---	---
BS18702500-312	2.500	2.500	2.875	0.312	2.875	0.343	---	---	11.05	---
BS18702500-375	2.500	2.500	2.875	0.375	2.875	0.406	15.23*	17.63	12.47	---
BS21802500-284	2.500	2.500	2.937	0.284	2.937	0.312	---	---	12.03	---
BS25002500	2.500	2.500	3.000	0.250	3.000	0.275	---	---	13.18	---
BS25002500-284	2.500	2.500	3.000	0.284	3.000	0.312	---	---	13.32	---
BS25002500-375	2.500	2.500	3.000	0.375	3.000	0.406	17.12	16.87	13.64	---
BS31202500-500	2.500	2.500	3.125	0.500	3.125	0.531	19.91*	16.81	14.74	---
BS37502500-437	2.500	2.500	3.250	0.437	3.250	0.481	12.73*	---	---	14.15*
BS37502500-625	2.500	2.500	3.250	0.625	3.250	0.688	---	---	20.39	---
BS18702625-375	2.625	2.625	3.000	0.375	3.000	0.406	15.86*	---	12.75	---
BS25002625-375	2.625	2.625	3.125	0.375	3.125	0.406	17.84*	---	---	19.83
BS25002625-500	2.625	2.625	3.125	0.500	3.125	0.550	---	---	16.81*	---
BS31202625-625	2.625	2.625	3.250	0.625	3.250	0.688	18.50*	---	15.23	---
BS17502650-187	2.650	2.650	3.000	0.187	3.000	0.218	---	17.00*	---	---
BS25702735-312	2.735	2.735	3.250	0.312	3.250	0.343	---	---	13.86*	---
BS18702750-281	2.750	2.750	3.125	0.281	3.125	0.310	16.07*	---	---	17.86*
BS18702750-375	2.750	2.750	3.125	0.375	3.125	0.413	---	---	12.75	---
BS25002750-375	2.750	2.750	3.250	0.375	3.250	0.413	---	15.34	14.93	---
BS31202750-375	2.750	2.750	3.375	0.375	3.375	0.413	---	---	16.08	---
BS31202750-500	2.750	2.750	3.375	0.500	3.375	0.531	16.66*	17.77*	16.08	---
BS31202750-805	2.750	2.750	3.375	0.805	3.375	0.886	---	---	17.41*	---
BS37502750-625	2.750	2.750	3.500	0.625	3.500	0.688	18.85*	---	22.30	32.57*
BS18202875-312	2.875	2.875	3.240	0.312	3.240	0.343	---	---	15.31	---
BS18702875-375	2.875	2.875	3.250	0.375	3.250	0.413	---	---	12.75	---
BS18703000-375	3.000	3.000	3.375	0.375	3.375	0.413	---	---	12.47	---
BS21803000-281	3.000	3.000	3.437	0.281	3.437	0.309	---	---	13.86*	---
BS21803000-375	3.000	3.000	3.437	0.375	3.437	0.406	11.12*	---	---	---
BS25003000-375	3.000	3.000	3.500	0.375	3.500	0.406	20.21	15.82	16.14	---
BS25003000-625	3.000	3.000	3.500	0.625	3.500	0.688	---	---	16.33	---

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Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	605	4xxx
BS25003000-781	3.000	3.000	3.500	0.781	3.500	0.859	---	---	16.33	---
BS26203000-725	3.000	3.000	3.524	0.725	3.524	0.798	27.25*	---	---	30.28
BS31203000-500	3.000	3.000	3.625	0.500	3.625	0.531	23.29*	19.26*	17.27	---
BS37503000-500	3.000	3.000	3.750	0.500	3.750	0.531	---	18.79	---	---
BS37503000-625	3.000	3.000	3.750	0.625	3.750	0.688	15.17*	---	24.25	---
BS18703125-625	3.125	3.125	3.500	0.625	3.500	0.688	15.25*	---	15.61	---
BS18703250-375	3.250	3.250	3.625	0.375	3.625	0.406	19.23*	---	16.30*	21.37
BS18703250-562	3.250	3.250	3.625	0.562	3.625	0.618	---	---	15.61	---
BS25003250-375	3.250	3.250	3.750	0.375	3.750	0.406	21.55*	16.70	17.25	23.94*
BS31203250-500	3.250	3.250	3.875	0.500	3.875	0.550	---	23.57*	15.21	---
BS18203375-312	3.375	3.375	3.740	0.312	3.740	0.343	---	---	15.92	---
BS25003375	3.375	3.375	3.875	0.250	3.875	0.281	---	17.13*	---	---
BS25003375-375	3.375	3.375	3.875	0.375	3.875	0.413	---	17.13	19.94	---
BS31203375-594	3.375	3.375	4.000	0.594	4.000	0.652	---	---	19.16	---
BS31203375-625	3.375	3.375	4.000	0.625	4.000	0.688	19.50*	---	---	---
BS18703500-281	3.500	3.500	3.875	0.281	3.875	0.310	21.34*	---	---	23.71*
BS18703500-375	3.500	3.500	3.875	0.375	3.875	0.413	---	---	15.55	---
BS25003500-312	3.500	3.500	4.000	0.312	4.000	0.343	---	---	18.60	---
BS25003500-375	3.500	3.500	4.000	0.375	4.000	0.406	23.10	17.44	18.60	---
BS31203500-500	3.500	3.500	4.125	0.500	4.125	0.531	26.96*	---	19.98	---
BS37503500-625	3.500	3.500	4.250	0.625	4.250	0.688	17.21*	23.43*	27.59	19.13*
BS25003625-375	3.625	3.625	4.125	0.375	4.125	0.413	---	---	18.63*	---
BS18703750-375	3.750	3.750	4.125	0.375	4.125	0.413	---	---	18.87*	---
BS25003750-375	3.750	3.750	4.250	0.375	4.250	0.413	---	20.47	18.63	---
BS25003750-500	3.750	3.750	4.250	0.500	4.250	0.550	---	---	19.48	---
BS25003750-562	3.750	3.750	4.250	0.562	4.250	0.618	---	---	19.48	---
BS37503750-500	3.750	3.750	4.500	0.500	4.500	0.531	18.35*	24.93	---	---
BS18203875-312	3.875	3.875	4.240	0.312	4.240	0.343	---	---	16.61	---
BS25003875-375	3.875	3.875	4.375	0.375	4.375	0.413	---	---	17.53	---
BS43703875-750	3.875	3.875	4.750	0.750	4.750	0.823	19.74*	---	---	21.93*
BS18704000-375	4.000	4.000	4.375	0.375	4.375	0.413	---	---	18.31	---
BS25004000-312	4.000	4.000	4.500	0.312	4.500	0.343	---	---	20.86*	---
BS25004000-375	4.000	4.000	4.500	0.375	4.500	0.406	26.04*	---	20.86	28.93*
BS25004000-562	4.000	4.000	4.500	0.562	4.500	0.594	12.05*	22.63*	21.03	13.39
BS25004000-781	4.000	4.000	4.500	0.781	4.500	0.859	---	---	22.45	---
BS26204000-725	4.000	4.000	4.524	0.725	4.524	0.798	31.83*	---	---	35.37
BS31204000-375	4.000	4.000	4.625	0.375	4.625	0.413	---	26.82	18.59	---
BS31204000-500	4.000	4.000	4.625	0.500	4.625	0.550	---	---	22.73	---
BS37504000-500	4.000	4.000	4.750	0.500	4.750	0.550	---	26.81	31.17	---
BS37504000-625	4.000	4.000	4.750	0.625	4.750	0.688	19.47	26.82	31.17	---
BS18704250-281	4.250	4.250	4.625	0.281	4.625	0.310	13.53*	---	---	15.03*
BS25004250-375	4.250	4.250	4.750	0.375	4.750	0.406	17.64*	---	---	19.60
BS25004250-562	4.250	4.250	4.750	0.562	4.750	0.594	28.85*	---	---	32.05
BS37504250-625	4.250	4.250	5.000	0.625	5.000	0.688	---	---	32.62	---
BS37504250-713	4.250	4.250	5.000	0.713	5.000	0.786	34.14*	---	---	---
BS25004375-500	4.375	4.375	4.875	0.500	4.875	0.531	18.72*	---	---	---
BS25004500-375	4.500	4.500	5.000	0.375	5.000	0.406	14.37*	---	22.65	15.97*
BS25004500-562	4.500	4.500	5.000	0.562	5.000	0.594	16.19	26.49	---	---

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

BS SERIES - AU

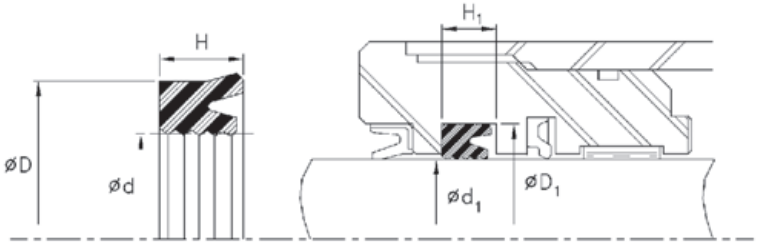
Ref.Number	Rod Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	605	4xxx
BS31204500-500	4.500	4.500	5.125	0.500	5.125	0.550	---	---	26.16	---
BS31204500-625	4.500	4.500	5.125	0.625	5.125	0.688	---	---	26.71	---
BS37504500-625	4.500	4.500	5.250	0.625	5.250	0.688	35.66	33.53*	34.25	---
BS31204625-625	4.625	4.625	5.250	0.625	5.250	0.688	16.56*	---	26.38	---
BS18704750-375	4.750	4.750	5.125	0.375	5.125	0.413	---	---	28.68*	---
BS25004750-562	4.750	4.750	5.250	0.562	5.250	0.594	---	43.81	---	---
BS25004750-625	4.750	4.750	5.250	0.625	5.250	0.688	---	---	25.87	---
BS37504750	4.750	4.750	5.500	0.375	5.500	0.406	---	35.78*	---	---
BS37504750-625	4.750	4.750	5.500	0.625	5.500	0.656	---	35.79	---	---
BS43704750-750	4.750	4.750	5.625	0.750	5.625	0.823	23.73*	---	---	26.36*
BS18705000-281	5.000	5.000	5.375	0.281	5.375	0.310	16.98*	---	---	18.86*
BS25005000-375	5.000	5.000	5.500	0.375	5.500	0.406	16.46*	---	25.91	18.29*
BS25005000-562	5.000	5.000	5.500	0.562	5.500	0.594	16.46	---	26.85	---
BS25005000-781	5.000	5.000	5.500	0.781	5.500	0.859	---	---	26.85	---
BS26205000-725	5.000	5.000	5.524	0.725	5.524	0.798	34.60*	---	---	38.44
BS26505000-557	5.000	5.000	5.531	0.557	5.531	0.613	---	---	26.85*	---
BS31205000-500	5.000	5.000	5.625	0.500	5.625	0.550	---	---	26.51	---
BS37505000-500	5.000	5.000	5.750	0.500	5.750	0.531	---	54.27	---	---
BS37505000-625	5.000	5.000	5.750	0.625	5.750	0.688	---	54.75	37.51	---
BS25005125-562	5.125	5.125	5.625	0.562	5.625	0.618	---	---	30.27	---
BS43705125-500	5.125	5.125	6.000	0.500	6.000	0.550	---	---	42.45*	---
BS31205250-625	5.250	5.250	5.875	0.625	5.875	0.688	19.75*	---	---	---
BS37505250-625	5.250	5.250	6.000	0.625	6.000	0.688	40.92*	---	---	45.46
BS25005375-625	5.375	5.375	5.875	0.625	5.875	0.688	---	---	30.35*	---
BS31205375-625	5.375	5.375	6.000	0.625	6.000	0.688	---	---	38.67*	---
BS25005500-375	5.500	5.500	6.000	0.375	6.000	0.413	---	---	29.66	---
BS25005500-562	5.500	5.500	6.000	0.562	6.000	0.618	---	42.16*	30.76	---
BS31205500	5.500	5.500	6.125	0.312	6.125	0.343	---	---	40.05	---
BS31205500-375	5.500	5.500	6.125	0.375	6.125	0.406	---	33.72*	---	---
BS37505500-625	5.500	5.500	6.250	0.625	6.250	0.688	---	---	40.63	---
BS25005625-375	5.625	5.625	6.125	0.375	6.125	0.413	---	---	33.88*	---
BS25005750-375	5.750	5.750	6.250	0.375	6.250	0.406	20.28*	---	---	22.53*
BS25006000-562	6.000	6.000	6.500	0.562	6.500	0.594	21.24*	---	33.88	23.61*
BS25006000-781	6.000	6.000	6.500	0.781	6.500	0.859	---	---	33.88	---
BS26206000-725	6.000	6.000	6.524	0.725	6.524	0.798	48.09*	---	---	53.43
BS26506000-562	6.000	6.000	6.531	0.562	6.531	0.618	---	---	33.88*	---
BS37506000-625	6.000	6.000	6.750	0.625	6.750	0.688	45.13	---	39.81	---
BS37506500-625	6.500	6.500	7.250	0.625	7.250	0.688	---	---	46.11	---
BS25007000-562	7.000	7.000	7.500	0.562	7.500	0.594	24.73*	---	39.41	27.47*
BS25007000-781	7.000	7.000	7.500	0.781	7.500	0.859	---	---	39.41	---
BS26207000-725	7.000	7.000	7.524	0.725	7.524	0.798	68.69*	---	---	76.32*
BS26507000-562	7.000	7.000	7.531	0.562	7.531	0.618	---	---	39.41*	---
BS37507000-625	7.000	7.000	7.750	0.625	7.750	0.688	---	---	49.28	---
BS50007000-750	7.000	7.000	8.000	0.750	8.000	0.823	98.53*	---	---	109.48*
BS25007500-375	7.500	7.500	8.000	0.375	8.000	0.413	---	---	51.47*	---
BS37507500-625	7.500	7.500	8.250	0.625	8.250	0.688	49.84*	---	---	55.38
BS37507750-625	7.750	7.750	8.500	0.625	8.500	0.688	---	---	53.67	---
BS25008000-375	8.000	8.000	8.500	0.375	8.500	0.413	---	---	45.61*	---
BS25008000-562	8.000	8.000	8.500	0.562	8.500	0.618	---	---	45.61	---

*** : 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	605	4xxx
BS26208000-725	8.000	8.000	8.524	0.725	8.524	0.798	92.02*	---	---	102.25*
BS37508000-625	8.000	8.000	8.750	0.625	8.750	0.688	---	---	53.67	---
BS25008125-781	8.125	8.125	8.625	0.781	8.625	0.859	---	---	47.37	---
BS26208125-725	8.125	8.125	8.650	0.725	8.650	0.798	100.63*	---	---	111.81
BS25008500-375	8.500	8.500	9.000	0.375	9.000	0.413	---	---	50.44*	---
BS25009000-562	9.000	9.000	9.500	0.562	9.500	0.618	---	---	53.51	---
BS50009000-750	9.000	9.000	10.000	0.750	10.000	0.823	66.72*	---	---	---
BS26209125-725	9.125	9.125	9.650	0.725	9.650	0.798	107.81*	---	---	119.79*
BS37509250-625	9.250	9.250	10.000	0.625	10.000	0.688	---	---	61.05*	---
BS25009375-781	9.375	9.375	9.875	0.781	9.875	0.859	---	---	54.95	---
BS26209375-725	9.375	9.375	9.900	0.725	9.900	0.798	117.91*	---	---	131.01*
BS25009750-375	9.750	9.750	10.250	0.375	10.250	0.413	---	---	64.83*	---
BS25010000-562	10.000	10.000	10.500	0.562	10.500	0.618	---	---	58.25*	---
BS37510000-625	10.000	10.000	10.750	0.625	10.750	0.688	53.84*	---	---	59.82*
BS50010500-750	10.500	10.500	11.500	0.750	11.500	0.823	98.87*	---	---	---

BS/SL - Rod Seals

NBR 80A
FPM 90A



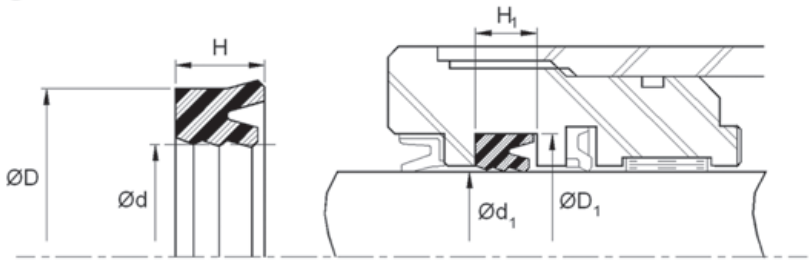
NBR: Temperature: -40/250F [-40/121C] Pressure: 1000 PSI [69 Bar]
FPM: Temperature: -20/400F [-28/204C] Pressure: 2200 PSI [151 Bar]

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	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	0.219	+.010/-.010	7.37
BS12500625-156-SL/V	0.625	+.000/-.001	0.625	0.875	0.156	0.625	+.000/-.001	0.875	+.002/-.000	0.219	+.010/-.010	26.56
BS15601000-187-SL/N	1.000	+.000/-.001	1.000	1.312	0.187	1.000	+.000/-.001	1.312	+.002/-.000	0.250	+.010/-.010	7.03
BS15601000-187-SL/V	1.000	+.000/-.001	1.000	1.312	0.187	1.000	+.000/-.001	1.312	+.002/-.000	0.250	+.010/-.010	13.50
BS15601375-187-SL/N*	1.375	+.000/-.001	1.375	1.687	0.187	1.375	+.000/-.001	1.687	+.002/-.000	0.250	+.010/-.010	9.41
BS15601375-187-SL/V*	1.375	+.000/-.001	1.375	1.687	0.187	1.375	+.000/-.001	1.687	+.002/-.000	0.250	+.010/-.010	27.93
BS18701375-187-SL/N	1.375	+.000/-.001	1.375	1.750	0.187	1.375	+.000/-.001	1.750	+.002/-.000	0.250	+.010/-.010	9.80
BS18701375-187-SL/V	1.375	+.000/-.001	1.375	1.750	0.187	1.375	+.000/-.001	1.750	+.002/-.000	0.250	+.010/-.010	21.92
BS18701750-218-SL/N	1.750	+.000/-.002	1.750	2.125	0.218	1.750	+.000/-.002	2.125	+.002/-.000	0.281	+.010/-.010	10.35
BS18701750-218-SL/V	1.750	+.000/-.002	1.750	2.125	0.218	1.750	+.000/-.002	2.125	+.002/-.000	0.281	+.010/-.010	35.18
BS18702000-218-SL/N*	2.000	+.000/-.002	2.000	2.375	0.218	2.000	+.000/-.002	2.375	+.002/-.000	0.281	+.010/-.010	12.45
BS18702000-218-SL/V*	2.000	+.000/-.002	2.000	2.375	0.218	2.000	+.000/-.002	2.375	+.002/-.000	0.281	+.010/-.010	40.21
BS21802500-240-SL/N*	2.500	+.000/-.002	2.500	2.937	0.240	2.500	+.000/-.002	2.937	+.002/-.000	0.312	+.010/-.010	14.03
BS21802500-240-SL/V*	2.500	+.000/-.002	2.500	2.937	0.240	2.500	+.000/-.002	2.937	+.002/-.000	0.312	+.010/-.010	47.29
BS21803000-240-SL/N*	3.000	+.000/-.003	3.000	3.437	0.240	3.000	+.000/-.003	3.437	+.002/-.000	0.312	+.010/-.010	16.85
BS21803000-240-SL/V*	3.000	+.000/-.003	3.000	3.437	0.240	3.000	+.000/-.003	3.437	+.002/-.000	0.312	+.010/-.010	56.74

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

BS/3L - Rod Seals

Polyurethane AU 92A



Temperature: -60/250F [-50/120C] **Pressure: 5000 PSI [345 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	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	17.92
BS12500625-218-3L	0.625	+.000 / -.001	0.625	0.875	0.218	0.625	+.000 / -.001	0.875	+.005 / -.000	0.228	+.015 / -.000	18.01
BS15601000-240-3L	1.000	+.000 / -.001	1.000	1.312	0.240	1.000	+.000 / -.001	1.312	+.005 / -.000	0.250	+.015 / -.000	16.92
BS15601375-240-3L	1.375	+.000 / -.001	1.375	1.687	0.240	1.375	+.000 / -.001	1.687	+.005 / -.000	0.250	+.015 / -.000	20.44
BS18701750-270-3L	1.750	+.000 / -.001	1.750	2.125	0.270	1.750	+.000 / -.001	2.125	+.005 / -.000	0.281	+.015 / -.000	27.15
BS18702000-270-3L	2.000	+.000 / -.001	2.000	2.375	0.270	2.000	+.000 / -.001	2.375	+.005 / -.000	0.281	+.015 / -.000	28.39
BS21802500-300-3L	2.500	+.000 / -.001	2.500	2.937	0.300	2.500	+.000 / -.001	2.937	+.005 / -.000	0.312	+.015 / -.000	30.07
BS21803000-300-3L	3.000	+.000 / -.001	3.000	3.437	0.300	3.000	+.000 / -.001	3.437	+.005 / -.000	0.312	+.015 / -.000	33.95
BS25003500-330-3L	3.500	+.000 / -.001	3.500	4.000	0.330	3.500	+.000 / -.001	4.000	+.005 / -.000	0.344	+.015 / -.000	40.75
BS25004000-330-3L	4.000	+.000 / -.001	4.000	4.500	0.330	4.000	+.000 / -.001	4.500	+.005 / -.000	0.344	+.015 / -.000	46.42
BS25004500-330-3L	4.500	+.000 / -.001	4.500	5.000	0.330	4.500	+.000 / -.001	5.000	+.005 / -.000	0.344	+.015 / -.000	50.09
BS28105000-355-3L	5.000	+.000 / -.001	5.000	5.625	0.355	5.000	+.000 / -.001	5.625	+.005 / -.000	0.375	+.015 / -.000	55.09
BS31205500-380-3L	5.500	+.000 / -.001	5.500	6.125	0.380	5.500	+.000 / -.001	6.125	+.005 / -.000	0.406	+.015 / -.000	96.49

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

Rod seals

Hallite

621

TECHNICAL DETAILS	METRIC	INCH
OPERATING CONDITIONS		
MAXIMUM SPEED	1.0 m/sec	3.0 ft/sec
TEMPERATURE RANGE	-45°C + 110°C	-50°F + 230°F
MAXIMUM PRESSURE	700 bar	10,000 p.s.i.

MAXIMUM EXTRUSION GAP

Figures show the maximum permissible gap all on one side using minimum rod Ø and maximum clearance Ø.

PRESSURE bar	160	250	400	500	700
MAXIMUM GAP mm	1.0	0.8	0.6	0.4	0.25
PRESSURE p.s.i.	2400	3750	6000	7500	10,000
MAXIMUM GAP in	0.040	0.032	0.024	0.016	0.010

SURFACE ROUGHNESS

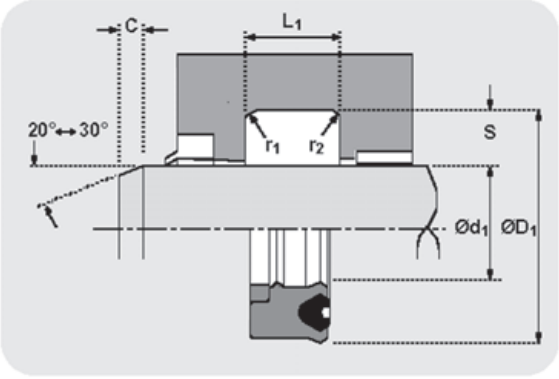
	µmRa	µmRt	µinCLA	µinRMS
DYNAMIC SEALING FACE $Ød_1$	0.1 0.4	4 max	4 16	5 18
STATIC SEALING FACE $ØD_1$	1.6 max	10 max	63 max	70 max
STATIC HOUSING FACES L_1	3.2 max	16 max	125 max	140 max

CHAMFERS & RADII

GROOVE SECTION S mm	4.0	5.0	7.5	10.0	12.5	15.0
MIN CHAMFER C mm	3.0	3.5	5.0	6.5	7.0	8.0
MAX FILLET RAD r_1 mm	0.2	0.4	0.8	0.8	1.2	1.6
MAX FILLET RAD r_2 mm	0.4	0.8	1.2	1.2	1.6	2.4
GROOVE SECTION S in	0.125	0.187	0.250	0.312	0.375	0.500
MIN CHAMFER C in	0.093	0.093	0.125	0.156	0.187	0.217
MAX FILLET RAD r_1 in	0.008	0.008	0.016	0.016	0.032	0.032
MAX FILLET RAD r_2 in	0.016	0.016	0.032	0.032	0.047	0.047

TOLERANCES

$Ød_1$	$ØD_1$	L_1 mm	L_1 in
f9	Js11	+0.25 -0	+0.010 -0



DESIGN

The Hallite 621 is a top of the range high pressure rod seal. The design of the seal incorporates a unique profiled NBR energiser to ensure complete lip actuation under all pressure conditions and to cushion the seal against shock loadings.

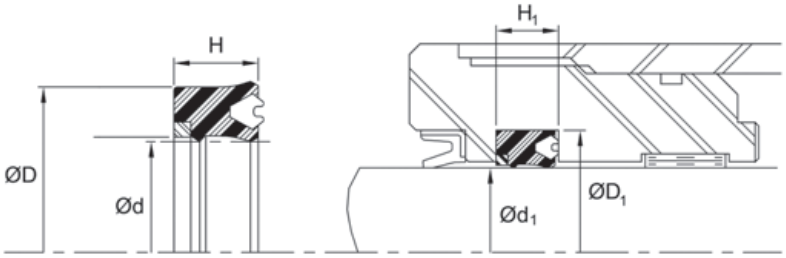
The shell is moulded in Hallite's high performance polyurethane Hythane 181, ensuring flexibility for installation and performance at low temperatures.
The Hallite 621 also benefits from Hallite's twin lip profile for dry rod sealing.

FEATURES

- HIGH PRESSURE/SHOCK LOAD CAPABILITY
- TWIN LIP DESIGN OFFERING:
  LOWER FRICTION
  IMPROVED SEALING
  PRIMARY LIP PROTECTION
  INCREASED SEAL STABILITY
- POLYACETAL ANTI-EXTRUSION RING.

621 - Rod Seals

Polyurethane/Polyacetal/Nitrile



Temperature: -50/230F [-46/110C] **Pressure: 7500 PSI [517 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	12.66
RE18701250-312	1.250 +.000 / -.002	1.250	1.625	0.312	1.250	+.000 / -.002	1.625	+.002 / -.000	0.343	+.015 / -.000	12.66
RE25001375-375	1.375 +.000 / -.002	1.375	1.875	0.375	1.375	+.000 / -.002	1.875	+.002 / -.000	0.413	+.015 / -.000	14.14
RE18701500-250	1.500 +.000 / -.002	1.500	1.875	0.250	1.500	+.000 / -.002	1.875	+.002 / -.000	0.275	+.015 / -.000	14.24
RE18701500-312	1.500 +.000 / -.002	1.500	1.875	0.312	1.500	+.000 / -.002	1.875	+.002 / -.000	0.343	+.015 / -.000	14.24
RE25001500-375	1.500 +.000 / -.002	1.500	2.000	0.375	1.500	+.000 / -.002	2.000	+.003 / -.000	0.413	+.015 / -.000	18.02
RE18701750-250	1.750 +.000 / -.002	1.750	2.125	0.250	1.750	+.000 / -.002	2.125	+.002 / -.000	0.275	+.015 / -.000	15.23
RE18701750-375	1.750 +.000 / -.002	1.750	2.125	0.375	1.750	+.000 / -.002	2.125	+.002 / -.000	0.413	+.015 / -.000	15.31
RE25001750-375	1.750 +.000 / -.002	1.750	2.250	0.375	1.750	+.000 / -.002	2.250	+.003 / -.000	0.413	+.015 / -.000	17.24
RE18702000-375	2.000 +.000 / -.002	2.000	2.375	0.375	2.000	+.000 / -.002	2.375	+.002 / -.000	0.413	+.015 / -.000	17.24
RE25002000-375	2.000 +.000 / -.002	2.000	2.500	0.375	2.000	+.000 / -.002	2.500	+.003 / -.000	0.413	+.015 / -.000	18.78
RE25002125-375	2.125 +.000 / -.002	2.125	2.625	0.375	2.125	+.000 / -.002	2.625	+.003 / -.000	0.413	+.015 / -.000	19.82
RE25002250-375	2.250 +.000 / -.002	2.250	2.750	0.375	2.250	+.000 / -.002	2.750	+.003 / -.000	0.413	+.015 / -.000	21.13
RE25002375-375	2.375 +.000 / -.002	2.375	2.875	0.375	2.375	+.000 / -.002	2.875	+.003 / -.000	0.413	+.015 / -.000	22.01
RE25002500-375	2.500 +.000 / -.002	2.500	3.000	0.375	2.500	+.000 / -.002	3.000	+.003 / -.000	0.413	+.015 / -.000	23.13
RE31202500-500	2.500 +.000 / -.003	2.500	3.125	0.500	2.500	+.000 / -.003	3.125	+.003 / -.000	0.550	+.015 / -.000	31.03
RE25002750-375	2.750 +.000 / -.002	2.750	3.250	0.375	2.750	+.000 / -.002	3.250	+.003 / -.000	0.413	+.015 / -.000	25.35
RE25003000-375	3.000 +.000 / -.002	3.000	3.500	0.375	3.000	+.000 / -.002	3.500	+.003 / -.000	0.413	+.015 / -.000	27.47
RE31203000-500	3.000 +.000 / -.003	3.000	3.625	0.500	3.000	+.000 / -.003	3.625	+.003 / -.000	0.550	+.015 / -.000	31.51
RE37503000-625	3.000 +.000 / -.003	3.000	3.750	0.625	3.000	+.000 / -.003	3.750	+.003 / -.000	0.688	+.015 / -.000	44.62
RE25003250-375	3.250 +.000 / -.003	3.250	3.750	0.375	3.250	+.000 / -.003	3.750	+.003 / -.000	0.413	+.015 / -.000	29.34
RE37503250-625	3.250 +.000 / -.003	3.250	4.000	0.625	3.250	+.000 / -.003	4.000	+.003 / -.000	0.688	+.015 / -.000	46.63
RE25003500-375	3.500 +.000 / -.003	3.500	4.000	0.375	3.500	+.000 / -.003	4.000	+.003 / -.000	0.413	+.015 / -.000	31.61
RE31203500-500	3.500 +.000 / -.003	3.500	4.125	0.500	3.500	+.000 / -.003	4.125	+.003 / -.000	0.550	+.015 / -.000	36.64
RE37503500-625	3.500 +.000 / -.003	3.500	4.250	0.625	3.500	+.000 / -.003	4.250	+.003 / -.000	0.688	+.015 / -.000	50.86
RE25003625-375	3.625 +.000 / -.003	3.625	4.125	0.375	3.500	+.000 / -.003	4.125	+.003 / -.000	0.413	+.015 / -.000	55.61
RE18703750-375	3.750 +.000 / -.003	3.750	4.125	0.375	3.750	+.000 / -.003	4.125	+.003 / -.000	0.413	+.015 / -.000	35.10
RE25003750-375	3.750 +.000 / -.003	3.750	4.250	0.375	3.750	+.000 / -.003	4.250	+.003 / -.000	0.413	+.015 / -.000	31.03
RE25004000-375	4.000 +.000 / -.003	4.000	4.500	0.375	4.000	+.000 / -.003	4.500	+.003 / -.000	0.413	+.015 / -.000	35.42
RE25004000-562	4.000 +.000 / -.003	4.000	4.500	0.562	4.000	+.000 / -.003	4.500	+.003 / -.000	0.618	+.015 / -.000	38.41
RE31204000-375	4.000 +.000 / -.003	4.000	4.625	0.375	4.000	+.000 / -.003	4.625	+.003 / -.000	0.413	+.015 / -.000	35.42
RE31204000-500	4.000 +.000 / -.003	4.000	4.625	0.500	4.000	+.000 / -.003	4.625	+.003 / -.000	0.550	+.015 / -.000	41.19
RE31204000-562	4.000 +.000 / -.003	4.000	4.625	0.562	4.000	+.000 / -.003	4.625	+.003 / -.000	0.618	+.015 / -.000	41.70
RE37504000-625	4.000 +.000 / -.003	4.000	4.750	0.625	4.000	+.000 / -.003	4.750	+.003 / -.000	0.688	+.015 / -.000	57.15
RE37504250-625	4.250 +.000 / -.003	4.250	5.000	0.625	4.250	+.000 / -.003	5.000	+.003 / -.000	0.688	+.015 / -.000	58.41
RE25004500-375	4.500 +.000 / -.003	4.500	5.000	0.375	4.500	+.000 / -.003	5.000	+.003 / -.000	0.413	+.015 / -.000	42.20
RE25004500-562	4.500 +.000 / -.003	4.500	5.000	0.562	4.500	+.000 / -.003	5.000	+.003 / -.000	0.618	+.015 / -.000	42.20

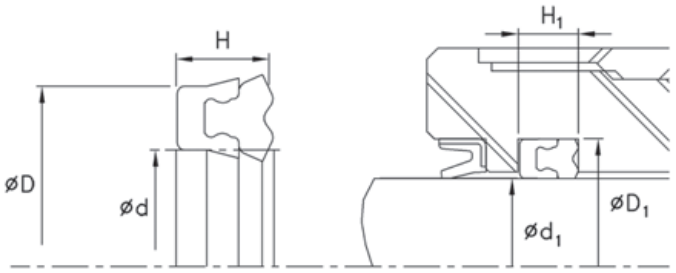
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

621 SERIES - AU/POM/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RE31204500-375	4.500	+.000 / -.003	4.500	5.125	0.375	4.500	+.000 / -.003	5.125	+.003 / -.000	0.413	+.015 / -.000	46.00
RE31204500-625	4.500	+.000 / -.003	4.500	5.125	0.625	4.500	+.000 / -.003	5.125	+.003 / -.000	0.688	+.015 / -.000	46.45
RE37504500-625	4.500	+.000 / -.003	4.500	5.250	0.625	4.500	+.000 / -.003	5.250	+.003 / -.000	0.688	+.015 / -.000	62.45
RE37504750-375	4.750	+.000 / -.003	4.750	5.500	0.375	4.750	+.000 / -.003	5.500	+.003 / -.000	0.413	+.015 / -.000	62.81
RE37504750-625	4.750	+.000 / -.003	4.750	5.500	0.625	4.750	+.000 / -.003	5.500	+.003 / -.000	0.688	+.015 / -.000	64.76
RE25005000-562	5.000	+.000 / -.003	5.000	5.500	0.562	5.000	+.000 / -.003	5.500	+.003 / -.000	0.618	+.015 / -.000	48.06
RE31205000-625	5.000	+.000 / -.003	5.000	5.625	0.625	5.000	+.000 / -.003	5.625	+.003 / -.000	0.688	+.015 / -.000	53.92
RE37505000-625	5.000	+.000 / -.003	5.000	5.750	0.625	5.000	+.000 / -.003	5.750	+.003 / -.000	0.688	+.015 / -.000	68.38
RE37505250-625	5.250	+.000 / -.003	5.250	6.000	0.625	5.250	+.000 / -.003	6.000	+.003 / -.000	0.688	+.015 / -.000	68.03
RE25005500-562	5.500	+.000 / -.003	5.500	6.000	0.562	5.500	+.000 / -.003	6.000	+.003 / -.000	0.618	+.015 / -.000	56.27
RE31205500-375	5.500	+.000 / -.003	5.500	6.125	0.375	5.500	+.000 / -.003	6.125	+.003 / -.000	0.413	+.015 / -.000	56.08
RE37505750-625	5.750	+.000 / -.003	5.750	6.500	0.625	5.750	+.000 / -.003	6.500	+.003 / -.000	0.688	+.015 / -.000	71.19
RE25006000-562	6.000	+.000 / -.003	6.000	6.500	0.562	6.000	+.000 / -.003	6.500	+.003 / -.000	0.618	+.015 / -.000	61.97
RE37506000-625	6.000	+.000 / -.003	6.000	6.750	0.625	6.000	+.000 / -.003	6.750	+.003 / -.000	0.688	+.015 / -.000	80.05
RE37506250-625	6.250	+.000 / -.003	6.250	7.000	0.625	6.250	+.000 / -.003	7.000	+.003 / -.000	0.688	+.015 / -.000	80.53
RE37506500-500	6.500	+.000 / -.003	6.500	7.250	0.500	6.500	+.000 / -.003	7.250	+.003 / -.000	0.550	+.015 / -.000	82.16
RE25006750-562	6.750	+.000 / -.003	6.750	7.250	0.562	6.750	+.000 / -.003	7.250	+.003 / -.000	0.618	+.015 / -.000	66.56
RE25007000-500	7.000	+.000 / -.003	7.000	7.500	0.500	7.000	+.000 / -.003	7.500	+.003 / -.000	0.550	+.015 / -.000	69.44
RE31207000-562*	7.000	+.000 / -.003	7.000	7.625	0.562	7.000	+.000 / -.003	7.625	+.003 / -.000	0.618	+.015 / -.000	86.52
RE37507000-562*	7.000	+.000 / -.003	7.000	7.750	0.562	7.000	+.000 / -.003	7.750	+.003 / -.000	0.618	+.015 / -.000	88.46
RE37507000-625	7.000	+.000 / -.003	7.000	7.750	0.625	7.000	+.000 / -.003	7.750	+.003 / -.000	0.688	+.015 / -.000	122.32
RE25008000-562*	8.000	+.000 / -.003	8.000	8.500	0.562	8.000	+.000 / -.003	8.500	+.003 / -.000	0.618	+.015 / -.000	84.79
RE37508000-625	8.000	+.000 / -.003	8.000	8.750	0.625	8.000	+.000 / -.003	8.750	+.003 / -.000	0.688	+.015 / -.000	235.62
RE37508500-625	8.500	+.000 / -.003	8.500	9.250	0.625	8.500	+.000 / -.003	9.250	+.003 / -.000	0.688	+.015 / -.000	193.23
RE37509000-625	9.000	+.000 / -.003	9.000	9.750	0.625	9.000	+.000 / -.003	9.750	+.003 / -.000	0.688	+.015 / -.000	213.88
RE50009000-750	9.000	+.000 / -.003	9.000	10.000	0.750	9.000	+.000 / -.003	10.000	+.003 / -.000	0.825	+.015 / -.000	242.98
RE25010000-562*	10.000	+.000 / -.003	10.000	10.500	0.562	10.000	+.000 / -.003	10.500	+.003 / -.000	0.618	+.015 / -.000	165.78
RE37510000-625	10.000	+.000 / -.003	10.000	10.750	0.625	10.000	+.000 / -.003	10.750	+.003 / -.000	0.688	+.015 / -.000	230.01
RE50010000-750	10.000	+.000 / -.003	10.000	11.000	0.750	10.000	+.000 / -.003	11.000	+.003 / -.000	0.825	+.015 / -.000	271.40
RE37511000-625*	11.000	+.000 / -.003	11.000	11.750	0.625	11.000	+.000 / -.003	11.750	+.003 / -.000	0.688	+.015 / -.000	264.86
RE37512000-625	12.000	+.000 / -.003	12.000	12.750	0.625	12.000	+.000 / -.003	12.750	+.003 / -.000	0.688	+.015 / -.000	305.61
RE50012000-750	12.000	+.000 / -.003	12.000	13.000	0.750	12.000	+.000 / -.003	13.000	+.003 / -.000	0.825	+.015 / -.000	357.39
RE31213000-562*	13.000	+.000 / -.003	13.000	13.625	0.562	13.000	+.000 / -.003	13.625	+.003 / -.000	0.618	+.015 / -.000	363.11
RE50014000-750	14.000	+.000 / -.003	14.000	15.000	0.750	14.000	+.000 / -.003	15.000	+.003 / -.000	0.825	+.015 / -.000	565.77
RE50015000-750*	15.000	+.000 / -.003	15.000	16.000	0.750	15.000	+.000 / -.003	16.000	+.003 / -.000	0.825	+.015 / -.000	614.18

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

DZ - Rod Seals



Lubrithane/Nitrile **Temperature: -60/250F [-51/121C]** **Pressure: N/A**
Blue Lubrithane/Nitrile **Temperature: -65/250F [-53/121C]** **Pressure: 6000 PSI [415 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
DZ18701250-312*	1.250	+.000 / -.002	1.250	1.625	0.312	1.250	+.000 / -.002	1.625	+.003 / -.000	0.344	+.015 / -.000	9.02
DZ25001500-375	1.500	+.000 / -.002	1.500	2.000	0.375	1.500	+.000 / -.002	2.000	+.003 / -.000	0.413	+.015 / -.000	11.24
DZ25002000-375	2.000	+.000 / -.002	2.000	2.500	0.375	2.000	+.000 / -.002	2.500	+.003 / -.000	0.413	+.015 / -.000	12.97
DZ25002500-375	2.500	+.000 / -.002	2.500	3.000	0.375	2.500	+.000 / -.002	3.000	+.003 / -.000	0.413	+.015 / -.000	13.71
DZ25002500-375/B	2.500	+.000 / -.002	2.500	3.000	0.375	2.500	+.000 / -.002	3.000	+.003 / -.000	0.413	+.015 / -.000	23.46
DZ37502625-625	2.625	+.000 / -.002	2.625	3.375	0.625	2.625	+.000 / -.002	3.375	+.003 / -.000	0.688	+.015 / -.000	29.17
DZ25002750-375	2.750	+.000 / -.002	2.750	3.250	0.375	2.750	+.000 / -.002	3.250	+.003 / -.000	0.413	+.015 / -.000	14.97
DZ25003000-375	3.000	+.000 / -.002	3.000	3.500	0.375	3.000	+.000 / -.002	3.500	+.003 / -.000	0.413	+.015 / -.000	16.47
DZ25003000-375/B	3.000	+.000 / -.002	3.000	3.500	0.375	3.000	+.000 / -.002	3.500	+.003 / -.000	0.413	+.015 / -.000	23.46
DZ25003000-375/F	3.000	+.000 / -.002	3.000	3.500	0.375	3.000	+.000 / -.002	3.500	+.003 / -.000	0.413	+.015 / -.000	19.28
DZ31203000-500	3.000	+.000 / -.002	3.000	3.625	0.500	3.000	+.000 / -.002	3.625	+.003 / -.000	0.550	+.015 / -.000	20.68
DZ37503000-625	3.000	+.000 / -.002	3.000	3.750	0.625	3.000	+.000 / -.002	3.750	+.003 / -.000	0.688	+.015 / -.000	31.53
DZ37503500-625	3.500	+.000 / -.003	3.500	4.000	0.625	3.500	+.000 / -.003	4.000	+.003 / -.000	0.688	+.015 / -.000	33.18
DZ37503625-625	3.625	+.000 / -.003	3.625	4.375	0.625	3.625	+.000 / -.003	4.375	+.003 / -.000	0.688	+.015 / -.000	35.81
DZ25003750-562	3.750	+.000 / -.003	3.750	4.250	0.562	3.750	+.000 / -.003	4.250	+.003 / -.000	0.619	+.015 / -.000	37.72
DZ25004000-562/F	4.000	+.000 / -.004	4.000	4.500	0.562	4.000	+.000 / -.004	4.500	+.004 / -.000	0.619	+.015 / -.000	28.36
DZ25005000-562/F	5.000	+.000 / -.004	5.000	5.500	0.562	5.000	+.000 / -.004	5.500	+.004 / -.000	0.619	+.015 / -.000	38.81
DZ25005250-562*	5.250	+.000 / -.004	5.250	5.750	0.562	5.250	+.000 / -.004	5.750	+.004 / -.000	0.619	+.015 / -.000	37.72
DZ25006000-562	6.000	+.000 / -.004	6.000	6.500	0.562	6.000	+.000 / -.004	6.500	+.004 / -.000	0.619	+.015 / -.000	42.83
DZ25006000-562/F	6.000	+.000 / -.004	6.000	6.500	0.562	6.000	+.000 / -.004	6.500	+.004 / -.000	0.619	+.015 / -.000	51.01
DZ37506000-625	6.000	+.000 / -.004	6.000	6.750	0.625	6.000	+.000 / -.004	6.750	+.004 / -.000	0.688	+.015 / -.000	54.66
DZ25006250-562*	6.250	+.000 / -.004	6.250	6.750	0.562	6.250	+.000 / -.004	6.750	+.004 / -.000	0.619	+.015 / -.000	52.84
DZ50006500-750	6.500	+.000 / -.004	6.500	7.500	0.750	6.500	+.000 / -.004	7.500	+.004 / -.000	0.825	+.015 / -.000	69.94
DZ25006750-562	6.750	+.000 / -.004	6.750	7.250	0.562	6.750	+.000 / -.004	7.250	+.004 / -.000	0.619	+.015 / -.000	49.04
DZ25007000-562/F	7.000	+.000 / -.004	7.000	7.500	0.562	7.000	+.000 / -.004	7.500	+.004 / -.000	0.619	+.015 / -.000	56.42
DZ50007000-750	7.000	+.000 / -.005	7.000	8.000	0.750	7.000	+.000 / -.005	8.000	+.005 / -.000	0.825	+.015 / -.000	74.83
DZ50007000-750/AE	7.000	+.000 / -.005	7.000	8.000	0.750	7.000	+.000 / -.005	8.000	+.005 / -.000	0.825	+.015 / -.000	181.35
DZ50007000-750/R*	7.000	+.000 / -.005	7.000	8.000	0.750	7.000	+.000 / -.005	8.000	+.005 / -.000	0.825	+.015 / -.000	132.30
DZ25008000-562*	8.000	+.000 / -.005	8.000	8.500	0.562	8.000	+.000 / -.005	8.500	+.005 / -.000	0.619	+.015 / -.000	72.06
DZ25008000-562/F	8.000	+.000 / -.005	8.000	8.500	0.562	8.000	+.000 / -.005	8.500	+.005 / -.000	0.619	+.015 / -.000	75.27
DZ25008125-562*	8.125	+.000 / -.005	8.125	8.625	0.562	8.125	+.000 / -.005	8.625	+.005 / -.000	0.619	+.015 / -.000	66.72
DZ25008125-562/F	8.125	+.000 / -.005	8.125	8.625	0.562	8.125	+.000 / -.005	8.625	+.005 / -.000	0.619	+.015 / -.000	83.17
DZ37509000-625/F	9.000	+.000 / -.005	9.000	9.750	0.625	9.000	+.000 / -.005	9.750	+.005 / -.000	0.688	+.015 / -.000	104.87
DZ50009000-750	9.000	+.000 / -.005	9.000	10.000	0.750	9.000	+.000 / -.005	10.000	+.005 / -.000	0.825	+.015 / -.000	99.39
DZ25009750-562*	9.750	+.000 / -.005	9.750	10.250	0.562	9.750	+.000 / -.005	10.250	+.005 / -.000	0.619	+.015 / -.000	79.59
DZ25010000-562*	10.000	+.000 / -.005	10.000	10.500	0.562	10.000	+.000 / -.005	10.500	+.005 / -.000	0.619	+.015 / -.000	104.58

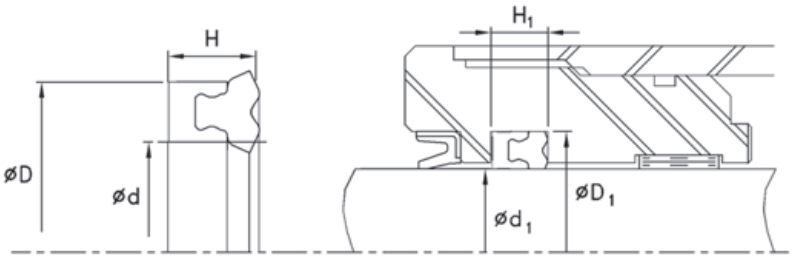
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

DZ SERIES - LUBRITHANE/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
DZ50010000-750/AE	10.000	+.000 / -.005	10.000	11.000	0.750	10.000	+.000 / -.005	11.000	+.005 / -.000	0.825	+.015 / -.000	395.98
DZ50012000-750	12.000	+.000 / -.005	12.000	13.000	0.750	12.000	+.000 / -.005	13.000	+.005 / -.000	0.825	+.015 / -.000	179.71
DZ50013000-750*	13.000	+.000 / -.005	13.000	14.000	0.750	13.000	+.000 / -.005	14.000	+.005 / -.000	0.825	+.015 / -.000	266.09
DZ37514000-625*	14.000	+.000 / -.005	14.000	14.750	0.625	14.000	+.000 / -.005	14.750	+.005 / -.000	0.688	+.015 / -.000	242.77

ZA - Rod Seals

Lubrithane/Nitrile



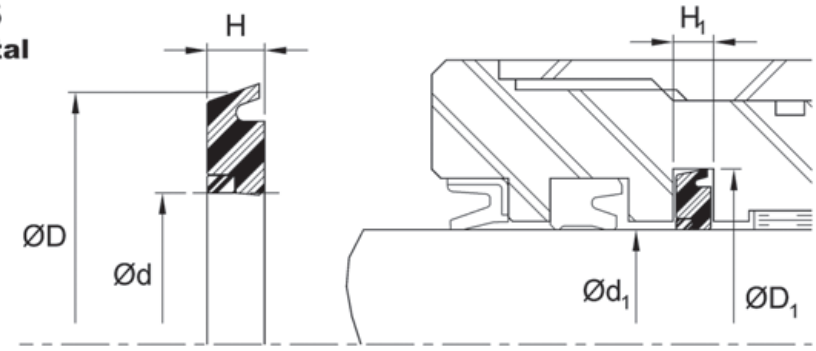
Temperature: -60/250F [-51/121C] **Pressure: 6000 PSI [415 BAR]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
ZA25001500-375	1.500	+.000 / -.002	1.500	2.000	0.375	1.500	+.000 / -.002	2.000	+.003 / -.000	0.413	+.010 / -.000	11.64
ZA25002000-375	2.000	+.000 / -.002	2.000	2.500	0.375	2.000	+.000 / -.002	2.500	+.003 / -.000	0.413	+.010 / -.000	13.83
ZA25003000-375	3.000	+.000 / -.002	3.000	3.500	0.375	3.000	+.000 / -.002	3.500	+.003 / -.000	0.413	+.010 / -.000	20.23
ZA37503000-625	3.000	+.000 / -.002	3.000	3.750	0.625	3.000	+.000 / -.002	3.750	+.005 / -.000	0.688	+.010 / -.000	22.10
ZA25003500-375	3.500	+.000 / -.002	3.500	4.000	0.375	3.500	+.000 / -.002	4.000	+.003 / -.000	0.413	+.010 / -.000	23.12
ZA25004000-562	4.000	+.000 / -.002	4.000	4.500	0.562	4.000	+.000 / -.002	4.500	+.003 / -.000	0.619	+.010 / -.000	26.60
ZA37504000-625	4.000	+.000 / -.002	4.000	4.750	0.625	4.000	+.000 / -.002	4.750	+.005 / -.000	0.688	+.010 / -.000	37.16
ZA25004500-562	4.500	+.000 / -.002	4.500	5.000	0.562	4.500	+.000 / -.002	5.000	+.003 / -.000	0.619	+.010 / -.000	27.95
ZA37504500-625*	4.500	+.000 / -.002	4.500	5.250	0.625	4.500	+.000 / -.002	5.250	+.005 / -.000	0.688	+.010 / -.000	30.12
ZA25004625-562	4.625	+.000 / -.002	4.625	5.125	0.562	4.625	+.000 / -.002	5.125	+.003 / -.000	0.619	+.010 / -.000	29.43
ZA37504750-625	4.750	+.000 / -.002	4.750	5.500	0.625	4.750	+.000 / -.002	5.500	+.005 / -.000	0.688	+.010 / -.000	32.23
ZA25005000-562	5.000	+.000 / -.002	5.000	5.500	0.562	5.000	+.000 / -.002	5.500	+.003 / -.000	0.619	+.010 / -.000	51.66
ZA37505000-625	5.000	+.000 / -.002	5.000	5.750	0.625	5.000	+.000 / -.002	5.750	+.005 / -.000	0.688	+.010 / -.000	33.03
ZA37506000-625	6.000	+.000 / -.002	6.000	6.750	0.625	6.000	+.000 / -.002	6.750	+.005 / -.000	0.688	+.010 / -.000	38.13
ZA37506250-500*	6.250	+.000 / -.002	6.250	7.000	0.500	6.250	+.000 / -.002	7.000	+.005 / -.000	0.550	+.010 / -.000	46.70
ZA25007000-562*	7.000	+.000 / -.002	7.000	7.500	0.562	7.000	+.000 / -.002	7.500	+.003 / -.000	0.619	+.010 / -.000	47.90
ZA37507000-625	7.000	+.000 / -.002	7.000	7.750	0.625	7.000	+.000 / -.002	7.750	+.005 / -.000	0.688	+.010 / -.000	39.32
ZA25008000-562*	8.000	+.000 / -.002	8.000	8.500	0.562	8.000	+.000 / -.002	8.500	+.003 / -.000	0.619	+.010 / -.000	67.66
ZA37512000-625*	12.000	+.000 / -.002	12.000	12.750	0.625	12.000	+.000 / -.002	12.750	+.005 / -.000	0.688	+.010 / -.000	115.17

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

BR - Buffer Seals

Polyurethane AU 90A/Polyacetal



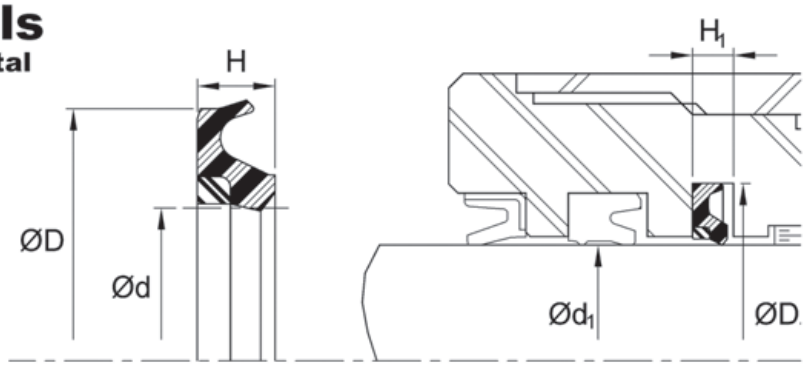
Temperature: -65/275F [-54/135C] **Pressure: 5000 PSI [550 BAR]**

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	+.000 / -.001	1.374	+.008/-.000	0.187	+.010 / -.000	11.27
BR-01125*	1.125	+.000 / -.001				1.125	+.000 / -.001	1.499	+.008/-.000	0.187	+.010 / -.000	12.76
BR-01250-1*	1.250	+.000 / -.001				1.250	+.000 / -.001	1.624	+.008/-.000	0.187	+.010 / -.000	13.23
BR-01250	1.250	+.000 / -.001				1.250	+.000 / -.001	1.815	+.008/-.000	0.135	+.010 / -.000	13.81
BR-01375	1.375	+.000 / -.001				1.375	+.000 / -.001	1.749	+.008/-.000	0.187	+.010 / -.000	17.40
BR-01500*	1.500	+.000 / -.002				1.500	+.000 / -.002	2.000	+.008/-.000	0.250	+.010 / -.000	20.11
BR-01500	1.500	+.000 / -.002				1.500	+.000 / -.002	2.063	+.008/-.000	0.135	+.010 / -.000	15.99
BR-01750-1*	1.750	+.000 / -.002				1.750	+.000 / -.002	2.250	+.008/-.000	0.250	+.010 / -.000	21.87
BR-01750 *	1.750	+.000 / -.002				1.750	+.000 / -.002	2.315	+.008/-.000	0.135	+.010 / -.000	17.75
BR-02000-1	2.000	+.000 / -.002				2.000	+.000 / -.002	2.500	+.008/-.000	0.250	+.010 / -.000	23.90
BR-02000*	2.000	+.000 / -.002				2.000	+.000 / -.002	2.563	+.008/-.000	0.135	+.010 / -.000	19.76
BR-02250	2.250	+.000 / -.002				2.250	+.000 / -.002	2.925	+.008/-.000	0.229	+.010 / -.000	43.41
BR-02500-1	2.500	+.000 / -.002				2.500	+.000 / -.002	3.000	+.008/-.000	0.250	+.010 / -.000	29.61
BR-02500*	2.500	+.000 / -.002				2.500	+.000 / -.002	3.173	+.008/-.000	0.229	+.010 / -.000	47.54
BR-02750*	2.750	+.000 / -.002				2.750	+.000 / -.002	3.397	+.008/-.000	0.229	+.010 / -.000	51.89
BR-03000-1	3.000	+.000 / -.002				3.000	+.000 / -.002	3.500	+.008/-.000	0.250	+.010 / -.000	34.93
BR-03000	3.000	+.000 / -.003				3.000	+.000 / -.003	3.646	+.008/-.000	0.229	+.010 / -.000	57.44
BR-03500*	3.500	+.000 / -.003				3.500	+.000 / -.003	4.000	+.008/-.000	0.250	+.010 / -.000	40.71
BR-03500	3.500	+.000 / -.003				3.500	+.000 / -.003	4.165	+.008/-.000	0.229	+.010 / -.000	46.11
BR-03750	3.750	+.000 / -.003				3.750	+.000 / -.003	4.250	+.008/-.000	0.250	+.010 / -.000	42.95
BR-04000-1*	4.000	+.000 / -.005				4.000	+.000 / -.005	4.624	+.008/-.000	0.312	+.010 / -.000	45.44
BR-04000	4.000	+.000 / -.005				4.000	+.000 / -.005	4.665	+.008/-.000	0.229	+.010 / -.000	49.99
BR-04250*	4.250	+.000 / -.005				4.250	+.000 / -.005	4.750	+.008/-.000	0.250	+.010 / -.000	58.90
BR-04250-1*	4.250	+.000 / -.005				4.250	+.000 / -.005	4.865	+.008/-.000	0.250	+.010 / -.000	49.92
BR-04500*	4.500	+.000 / -.005				4.500	+.000 / -.005	5.124	+.008/-.000	0.312	+.010 / -.000	58.76
BR-05000	5.000	+.000 / -.005				5.000	+.000 / -.005	5.830	+.008/-.000	0.325	+.010 / -.000	65.34
BR-05500*	5.500	+.000 / -.005				5.500	+.000 / -.005	6.250	+.008/-.000	0.375	+.010 / -.000	99.88

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

HBY - Buffer Seals

Polyurethane AU 94A/Polyacetal

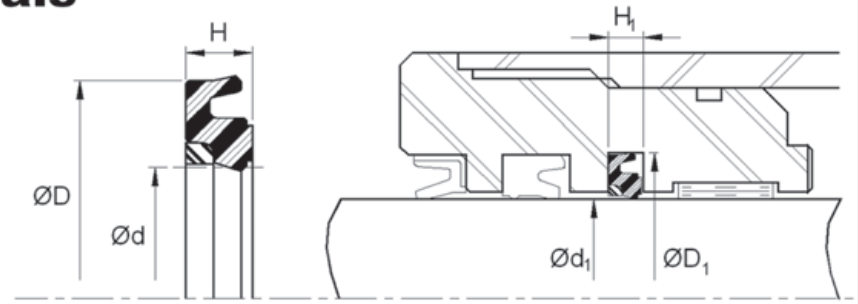


Temperature: -65/300F [-54/149C] **Pressure: 8000 PSI [586 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	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	12.34
HBY-01500	1.500	+.000 / -.003	1.500	2.062	0.125	1.500	+.000 / -.003	2.062	+.008 / -.000	0.140	+.015 / -.000	14.25
HBY-01750	1.750	+.000 / -.003	1.750	2.312	0.125	1.750	+.000 / -.003	2.313	+.008 / -.000	0.140	+.015 / -.000	16.16
HBY-02000	2.000	+.000 / -.003	2.000	2.562	0.125	2.000	+.000 / -.003	2.563	+.008 / -.000	0.140	+.015 / -.000	18.07
HBY-02250	2.250	+.000 / -.003	2.250	2.937	0.187	2.250	+.000 / -.003	2.938	+.008 / -.000	0.234	+.015 / -.000	20.01
HBY-02500	2.500	+.000 / -.003	2.500	3.187	0.187	2.500	+.000 / -.003	3.188	+.008 / -.000	0.234	+.015 / -.000	21.90
HBY-02750	2.750	+.000 / -.003	2.750	3.375	0.187	2.750	+.000 / -.003	3.375	+.009 / -.000	0.234	+.015 / -.000	23.81
HBY-03000	3.000	+.000 / -.004	3.000	3.625	0.187	3.000	+.000 / -.004	3.625	+.009 / -.000	0.234	+.015 / -.000	25.72
HBY-03500	3.500	+.000 / -.004	3.500	4.187	0.187	3.500	+.000 / -.004	4.188	+.009 / -.000	0.234	+.015 / -.000	29.55
HBY-04000	4.000	+.000 / -.004	4.000	4.625	0.187	4.000	+.000 / -.004	4.625	+.009 / -.000	0.234	+.015 / -.000	33.35

RBS - Buffer Seals

Polyurethane 93A/POM



Temperature: -75/265F [-60/130C] **Pressure: 10 000 PSI [640 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RBS-02500/3*	2.500	+.000 / -.002			0.235	2.500	+.000 / -.002	3.116	+.005 / -.000	0.252	+.004 / -.004	33.98
RBS-02750/3*	2.750	+.000 / -.002			0.235	2.750	+.000 / -.002	3.366	+.005 / -.000	0.252	+.004 / -.004	28.18
RBS-03000/3*	3.000	+.000 / -.003			0.235	3.000	+.000 / -.003	3.616	+.005 / -.000	0.252	+.004 / -.004	39.76
RBS-03500/3*	3.500	+.000 / -.003			0.235	3.500	+.000 / -.003	4.116	+.005 / -.000	0.252	+.004 / -.004	40.56
RBS-04000/3*	4.000	+.000 / -.005			0.235	4.000	+.000 / -.005	4.616	+.005 / -.000	0.252	+.004 / -.004	55.88
RBS-04250/3*	4.250	+.000 / -.005			0.235	4.250	+.000 / -.005	4.866	+.005 / -.000	0.252	+.004 / -.004	62.89
RBS-04500/3*	4.500	+.000 / -.005			0.235	4.500	+.000 / -.005	5.116	+.005 / -.000	0.252	+.004 / -.004	69.49
RBS-04750/3*	4.750	+.000 / -.005			0.235	4.750	+.000 / -.005	5.366	+.005 / -.000	0.252	+.004 / -.004	71.74
RBS-05000/3*	5.000	+.000 / -.005			0.235	5.000	+.000 / -.005	5.616	+.005 / -.000	0.252	+.004 / -.004	73.91
RBS-05250/3*	5.250	+.000 / -.005			0.235	5.250	+.000 / -.005	5.866	+.005 / -.000	0.252	+.004 / -.004	71.68

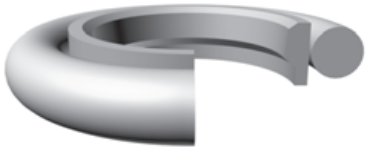
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

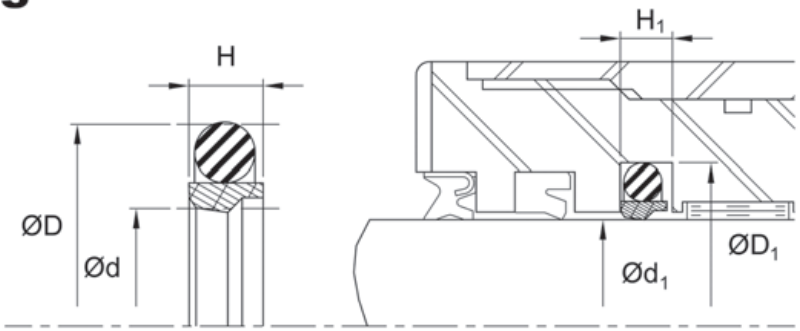
RBS SERIES - AU 93A/POM

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RBS-05500/3*	5.500	+.000 / -.005			0.235	5.500	+.000 / -.005	6.116	+.005 / -.000	0.252	+.004 / -.004	72.11
RBS-05750/3*	5.750	+.000 / -.005			0.235	5.750	+.000 / -.005	6.366	+.005 / -.000	0.252	+.004 / -.004	69.41
RBS-06000/3*	6.000	+.000 / -.005			0.235	6.000	+.000 / -.005	6.616	+.005 / -.000	0.252	+.004 / -.004	67.87
RBS-06250/3*	6.250	+.000 / -.005			0.235	6.250	+.000 / -.005	6.866	+.005 / -.000	0.252	+.004 / -.004	71.68
RBS-06500/3*	6.500	+.000 / -.005			0.235	6.500	+.000 / -.005	7.116	+.005 / -.000	0.252	+.004 / -.004	75.11
RBS-06750/3*	6.750	+.000 / -.005			0.235	6.750	+.000 / -.005	7.366	+.005 / -.000	0.252	+.004 / -.004	78.72
RBS-07000/3*	7.000	+.000 / -.005			0.235	7.000	+.000 / -.005	7.616	+.005 / -.000	0.252	+.004 / -.004	81.20
RBS-07250/3*	7.250	+.000 / -.005			0.235	7.250	+.000 / -.005	7.866	+.005 / -.000	0.252	+.004 / -.004	81.65
RBS-07500/3*	7.500	+.000 / -.005			0.235	7.500	+.000 / -.005	8.116	+.005 / -.000	0.252	+.004 / -.004	82.63
RBS-07750/3*	7.750	+.000 / -.005			0.235	7.750	+.000 / -.005	8.366	+.005 / -.000	0.252	+.004 / -.004	84.16
RBS-08000/3*	8.000	+.000 / -.005			0.235	8.000	+.000 / -.005	8.616	+.005 / -.000	0.252	+.004 / -.004	87.13

RSS - Buffer Seals

BR.PTFE/Nitrile





Temperature: -30/250F [-34/121C] **Pressure: 5800 PSI [400 Bar]**

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	+.000 / -.001	0.505	+.003 / -.000	0.090	+.004 / -.004	13.53
RSS-00312/1*	0.312	+.000 / -.001				0.312	+.000 / -.001	0.599	+.003 / -.000	0.130	+.004 / -.004	13.53
RSS-00312/2*	0.312	+.000 / -.001				0.312	+.000 / -.001	0.733	+.004 / -.000	0.169	+.004 / -.004	13.53
RSS-00375/0*	0.375	+.000 / -.001				0.375	+.000 / -.001	0.568	+.003 / -.000	0.090	+.004 / -.004	13.53
RSS-00375/1	0.375	+.000 / -.001				0.375	+.000 / -.001	0.662	+.003 / -.000	0.130	+.004 / -.004	13.53
RSS-00375/2*	0.375	+.000 / -.001				0.375	+.000 / -.001	0.796	+.004 / -.000	0.169	+.004 / -.004	13.53
RSS-00437/0*	0.437	+.000 / -.001				0.437	+.000 / -.001	0.630	+.003 / -.000	0.090	+.004 / -.004	13.53
RSS-00437/1*	0.437	+.000 / -.001				0.437	+.000 / -.001	0.724	+.003 / -.000	0.130	+.004 / -.004	13.53
RSS-00437/2*	0.437	+.000 / -.001				0.437	+.000 / -.001	0.858	+.004 / -.000	0.169	+.004 / -.004	13.53
RSS-00500/0	0.500	+.000 / -.001				0.500	+.000 / -.001	0.693	+.003 / -.000	0.090	+.004 / -.004	13.53
RSS-00500/1*	0.500	+.000 / -.001				0.500	+.000 / -.001	0.787	+.003 / -.000	0.130	+.004 / -.004	13.53
RSS-00500/2*	0.500	+.000 / -.001				0.500	+.000 / -.001	0.921	+.004 / -.000	0.169	+.004 / -.004	13.53
RSS-00562/0*	0.562	+.000 / -.001				0.562	+.000 / -.001	0.755	+.003 / -.000	0.090	+.004 / -.004	13.53
RSS-00562/1*	0.562	+.000 / -.001				0.562	+.000 / -.001	0.849	+.003 / -.000	0.130	+.004 / -.004	13.53
RSS-00562/2*	0.562	+.000 / -.001				0.562	+.000 / -.001	0.983	+.004 / -.000	0.169	+.004 / -.004	13.53
RSS-00625/0*	0.625	+.000 / -.001				0.625	+.000 / -.001	0.818	+.003 / -.000	0.090	+.004 / -.004	13.53
RSS-00625/1*	0.625	+.000 / -.001				0.625	+.000 / -.001	0.912	+.003 / -.000	0.130	+.004 / -.004	13.53
RSS-00625/2*	0.625	+.000 / -.001				0.625	+.000 / -.001	1.046	+.004 / -.000	0.169	+.004 / -.004	13.53
RSS-00687/0*	0.687	+.000 / -.001				0.687	+.000 / -.001	0.880	+.003 / -.000	0.090	+.004 / -.004	13.53

*** : 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-00687/1*	0.687	+.000 / -.001				0.687	+.000 / -.001	0.974	+.003 / -.000	0.130	+.004 / -.004	13.53
RSS-00687/2*	0.687	+.000 / -.001				0.687	+.000 / -.001	1.108	+.004 / -.000	0.169	+.004 / -.004	13.53
RSS-00750/1	0.750	+.000 / -.001				0.750	+.000 / -.001	1.037	+.003 / -.000	0.130	+.004 / -.004	14.96
RSS-00750/2	0.750	+.000 / -.001				0.750	+.000 / -.001	1.171	+.004 / -.000	0.169	+.004 / -.004	14.96
RSS-00750/3*	0.750	+.000 / -.001				0.750	+.000 / -.001	1.344	+.005 / -.000	0.252	+.004 / -.004	14.96
RSS-00812/1*	0.812	+.000 / -.001				0.812	+.000 / -.001	1.099	+.003 / -.000	0.130	+.004 / -.004	14.96
RSS-00812/2*	0.812	+.000 / -.001				0.812	+.000 / -.001	1.233	+.004 / -.000	0.169	+.004 / -.004	14.96
RSS-00812/3*	0.812	+.000 / -.001				0.812	+.000 / -.001	1.406	+.005 / -.000	0.252	+.004 / -.004	14.96
RSS-00875/1	0.875	+.000 / -.001				0.875	+.000 / -.001	1.162	+.003 / -.000	0.130	+.004 / -.004	14.96
RSS-00875/2	0.875	+.000 / -.001				0.875	+.000 / -.001	1.296	+.004 / -.000	0.169	+.004 / -.004	14.96
RSS-00875/3*	0.875	+.000 / -.001				0.875	+.000 / -.001	1.469	+.005 / -.000	0.252	+.004 / -.004	14.96
RSS-00937/1*	0.937	+.000 / -.001				0.937	+.000 / -.001	1.224	+.003 / -.000	0.130	+.004 / -.004	14.96
RSS-00937/2*	0.937	+.000 / -.001				0.937	+.000 / -.001	1.358	+.004 / -.000	0.169	+.004 / -.004	14.96
RSS-00937/3*	0.937	+.000 / -.001				0.937	+.000 / -.001	1.531	+.005 / -.000	0.252	+.004 / -.004	14.96
RSS-01000/1	1.000	+.000 / -.001				1.000	+.000 / -.001	1.287	+.003 / -.000	0.130	+.004 / -.004	14.25
RSS-01000/2	1.000	+.000 / -.001				1.000	+.000 / -.001	1.421	+.004 / -.000	0.169	+.004 / -.004	7.25
RSS-01000/3*	1.000	+.000 / -.001				1.000	+.000 / -.001	1.594	+.005 / -.000	0.252	+.004 / -.004	14.26
RSS-01062/1*	1.062	+.000 / -.001				1.062	+.000 / -.001	1.349	+.003 / -.000	0.130	+.004 / -.004	14.56
RSS-01062/2*	1.062	+.000 / -.001				1.062	+.000 / -.001	1.483	+.004 / -.000	0.169	+.004 / -.004	14.56
RSS-01062/3*	1.062	+.000 / -.001				1.062	+.000 / -.001	1.656	+.005 / -.000	0.252	+.004 / -.004	14.56
RSS-01125/1	1.125	+.000 / -.001				1.125	+.000 / -.001	1.412	+.003 / -.000	0.130	+.004 / -.004	14.56
RSS-01125/2*	1.125	+.000 / -.001				1.125	+.000 / -.001	1.546	+.004 / -.000	0.169	+.004 / -.004	14.56
RSS-01125/3*	1.125	+.000 / -.001				1.125	+.000 / -.001	1.719	+.005 / -.000	0.252	+.004 / -.004	14.56
RSS-01187/1*	1.187	+.000 / -.001				1.187	+.000 / -.001	1.474	+.003 / -.000	0.130	+.004 / -.004	17.09
RSS-01187/2*	1.187	+.000 / -.001				1.187	+.000 / -.001	1.608	+.004 / -.000	0.169	+.004 / -.004	17.09
RSS-01187/3*	1.187	+.000 / -.001				1.187	+.000 / -.001	1.781	+.005 / -.000	0.252	+.004 / -.004	17.09
RSS-01250/1	1.250	+.000 / -.001				1.250	+.000 / -.001	1.537	+.003 / -.000	0.130	+.004 / -.004	16.94
RSS-01250/2	1.250	+.000 / -.001				1.250	+.000 / -.001	1.671	+.004 / -.000	0.169	+.004 / -.004	18.03
RSS-01250/3	1.250	+.000 / -.001				1.250	+.000 / -.001	1.844	+.005 / -.000	0.252	+.004 / -.004	18.02
RSS-01312/1*	1.312	+.000 / -.001				1.312	+.000 / -.001	1.599	+.003 / -.000	0.130	+.004 / -.004	18.02
RSS-01312/2*	1.312	+.000 / -.001				1.312	+.000 / -.001	1.733	+.004 / -.000	0.169	+.004 / -.004	18.02
RSS-01312/3*	1.312	+.000 / -.001				1.312	+.000 / -.001	1.906	+.005 / -.000	0.252	+.004 / -.004	18.02
RSS-01375/1	1.375	+.000 / -.001				1.375	+.000 / -.001	1.662	+.003 / -.000	0.130	+.004 / -.004	19.69
RSS-01375/2	1.375	+.000 / -.001				1.375	+.000 / -.001	1.796	+.004 / -.000	0.169	+.004 / -.004	19.68
RSS-01375/3*	1.375	+.000 / -.001				1.375	+.000 / -.001	1.969	+.005 / -.000	0.252	+.004 / -.004	19.69
RSS-01437/1*	1.437	+.000 / -.001				1.437	+.000 / -.001	1.724	+.003 / -.000	0.130	+.004 / -.004	19.69
RSS-01437/2*	1.437	+.000 / -.001				1.437	+.000 / -.001	1.858	+.004 / -.000	0.169	+.004 / -.004	19.69
RSS-01437/3*	1.437	+.000 / -.001				1.437	+.000 / -.001	2.031	+.005 / -.000	0.252	+.004 / -.004	19.69
RSS-01500/1	1.500	+.000 / -.001				1.500	+.000 / -.001	1.787	+.005 / -.000	0.130	+.004 / -.004	16.52
RSS-01500/2	1.500	+.000 / -.002				1.500	+.000 / -.002	1.921	+.004 / -.000	0.169	+.004 / -.004	19.68
RSS-01500/3	1.500	+.000 / -.002				1.500	+.000 / -.002	2.094	+.005 / -.000	0.252	+.004 / -.004	12.70
RSS-01500/4*	1.500	+.000 / -.002				1.500	+.000 / -.002	2.307	+.006 / -.000	0.323	+.004 / -.004	19.69
RSS-01562/2*	1.562	+.000 / -.002				1.562	+.000 / -.002	1.983	+.004 / -.000	0.169	+.004 / -.004	19.69
RSS-01562/3*	1.562	+.000 / -.002				1.562	+.000 / -.002	2.156	+.005 / -.000	0.252	+.004 / -.004	19.69
RSS-01562/4*	1.562	+.000 / -.002				1.562	+.000 / -.002	2.369	+.006 / -.000	0.323	+.004 / -.004	19.69
RSS-01625/2	1.625	+.000 / -.002				1.625	+.000 / -.002	2.046	+.004 / -.000	0.169	+.004 / -.004	19.69
RSS-01625/3*	1.625	+.000 / -.002				1.625	+.000 / -.002	2.219	+.005 / -.000	0.252	+.004 / -.004	19.69
RSS-01625/4*	1.625	+.000 / -.002				1.625	+.000 / -.002	2.432	+.006 / -.000	0.323	+.004 / -.004	19.69

*** : 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-01687/2*	1.687	+.000 / -.002				1.687	+.000 / -.002	2.108	+.004 / -.000	0.169	+.004 / -.004	20.28
RSS-01687/3*	1.687	+.000 / -.002				1.687	+.000 / -.002	2.281	+.005 / -.000	0.252	+.004 / -.004	20.28
RSS-01687/4*	1.687	+.000 / -.002				1.687	+.000 / -.002	2.494	+.006 / -.000	0.323	+.004 / -.004	20.28
RSS-01750/2	1.750	+.000 / -.002				1.750	+.000 / -.002	2.171	+.004 / -.000	0.169	+.004 / -.004	20.55
RSS-01750/3	1.750	+.000 / -.002				1.750	+.000 / -.002	2.344	+.005 / -.000	0.252	+.004 / -.004	21.03
RSS-01750/4*	1.750	+.000 / -.002				1.750	+.000 / -.002	2.557	+.006 / -.000	0.323	+.004 / -.004	22.82
RSS-01812/2*	1.812	+.000 / -.002				1.812	+.000 / -.002	2.233	+.004 / -.000	0.169	+.004 / -.004	22.82
RSS-01812/3*	1.812	+.000 / -.002				1.812	+.000 / -.002	2.406	+.005 / -.000	0.252	+.004 / -.004	22.82
RSS-01812/4*	1.812	+.000 / -.002				1.812	+.000 / -.002	2.619	+.006 / -.000	0.323	+.004 / -.004	22.82
RSS-01875/2*	1.875	+.000 / -.002				1.875	+.000 / -.002	2.296	+.004 / -.000	0.169	+.004 / -.004	17.64
RSS-01875/3*	1.875	+.000 / -.002				1.875	+.000 / -.002	2.469	+.005 / -.000	0.252	+.004 / -.004	22.82
RSS-01875/4*	1.875	+.000 / -.002				1.875	+.000 / -.002	2.682	+.006 / -.000	0.323	+.004 / -.004	22.82
RSS-01937/2*	1.937	+.000 / -.002				1.937	+.000 / -.002	2.358	+.004 / -.000	0.169	+.004 / -.004	24.19
RSS-01937/3*	1.937	+.000 / -.002				1.937	+.000 / -.002	2.531	+.005 / -.000	0.252	+.004 / -.004	24.19
RSS-01937/4*	1.937	+.000 / -.002				1.937	+.000 / -.002	2.744	+.006 / -.000	0.323	+.004 / -.004	24.19
RSS-02000/2	2.000	+.000 / -.002				2.000	+.000 / -.002	2.421	+.004 / -.000	0.169	+.004 / -.004	22.12
RSS-02000/3	2.000	+.000 / -.002				2.000	+.000 / -.002	2.594	+.005 / -.000	0.252	+.004 / -.004	23.81
RSS-02000/4*	2.000	+.000 / -.002				2.000	+.000 / -.002	2.807	+.006 / -.000	0.323	+.004 / -.004	24.19
RSS-02125/2	2.125	+.000 / -.002				2.125	+.000 / -.002	2.546	+.004 / -.000	0.169	+.004 / -.004	23.38
RSS-02125/3	2.125	+.000 / -.002				2.125	+.000 / -.002	2.719	+.005 / -.000	0.252	+.004 / -.004	24.19
RSS-02125/4*	2.125	+.000 / -.002				2.125	+.000 / -.002	2.932	+.006 / -.000	0.323	+.004 / -.004	24.19
RSS-02250/2	2.250	+.000 / -.002				2.250	+.000 / -.002	2.671	+.004 / -.000	0.169	+.004 / -.004	24.73
RSS-02250/3	2.250	+.000 / -.002				2.250	+.000 / -.002	2.844	+.005 / -.000	0.252	+.004 / -.004	24.73
RSS-02250/4*	2.250	+.000 / -.002				2.250	+.000 / -.002	3.057	+.006 / -.000	0.323	+.004 / -.004	24.73
RSS-02375/2*	2.375	+.000 / -.002				2.375	+.000 / -.002	2.796	+.004 / -.000	0.169	+.004 / -.004	25.97
RSS-02375/3*	2.375	+.000 / -.002				2.375	+.000 / -.002	2.969	+.005 / -.000	0.252	+.004 / -.004	25.97
RSS-02375/4*	2.375	+.000 / -.002				2.375	+.000 / -.002	3.182	+.006 / -.000	0.323	+.004 / -.004	25.97
RSS-02500/2	2.500	+.000 / -.002				2.500	+.000 / -.002	2.921	+.004 / -.000	0.169	+.004 / -.004	22.29
RSS-02500/3	2.500	+.000 / -.002				2.500	+.000 / -.002	3.094	+.005 / -.000	0.252	+.004 / -.004	30.88
RSS-02500/4*	2.500	+.000 / -.002				2.500	+.000 / -.002	3.307	+.006 / -.000	0.323	+.004 / -.004	30.87
RSS-02625/2*	2.625	+.000 / -.002				2.625	+.000 / -.002	3.046	+.004 / -.000	0.169	+.004 / -.004	30.87
RSS-02625/3	2.625	+.000 / -.002				2.625	+.000 / -.002	3.219	+.005 / -.000	0.252	+.004 / -.004	29.78
RSS-02625/4*	2.625	+.000 / -.002				2.625	+.000 / -.002	3.432	+.006 / -.000	0.323	+.004 / -.004	30.87
RSS-02750/2	2.750	+.000 / -.002				2.750	+.000 / -.002	3.171	+.004 / -.000	0.169	+.004 / -.004	30.87
RSS-02750/3	2.750	+.000 / -.002				2.750	+.000 / -.002	3.344	+.005 / -.000	0.252	+.004 / -.004	25.59
RSS-02750/4*	2.750	+.000 / -.002				2.750	+.000 / -.002	3.557	+.006 / -.000	0.323	+.004 / -.004	30.87
RSS-02875/2*	2.875	+.000 / -.002				2.875	+.000 / -.002	3.296	+.004 / -.000	0.169	+.004 / -.004	30.87
RSS-02875/3*	2.875	+.000 / -.002				2.875	+.000 / -.002	3.469	+.005 / -.000	0.252	+.004 / -.004	30.87
RSS-02875/4*	2.875	+.000 / -.002				2.875	+.000 / -.002	3.682	+.006 / -.000	0.323	+.004 / -.004	30.87
RSS-03000/2	3.000	+.000 / -.003				3.000	+.000 / -.003	3.421	+.004 / -.000	0.169	+.004 / -.004	29.00
RSS-03000/3	3.000	+.000 / -.003				3.000	+.000 / -.003	3.594	+.005 / -.000	0.252	+.004 / -.004	36.15
RSS-03000/3-NYL	3.000	+.000 / -.003				3.000	+.000 / -.003	3.594	+.005 / -.000	0.252	+.004 / -.004	30.87
RSS-03000/4*	3.000	+.000 / -.003				3.000	+.000 / -.003	3.807	+.006 / -.000	0.323	+.004 / -.004	30.87
RSS-03125/2*	3.125	+.000 / -.003				3.125	+.000 / -.003	3.546	+.004 / -.000	0.169	+.004 / -.004	30.87
RSS-03125/3*	3.125	+.000 / -.003				3.125	+.000 / -.003	3.719	+.005 / -.000	0.252	+.004 / -.004	30.87
RSS-03125/4*	3.125	+.000 / -.003				3.125	+.000 / -.003	3.932	+.006 / -.000	0.323	+.004 / -.004	30.87
RSS-03250/2	3.250	+.000 / -.003				3.250	+.000 / -.003	3.671	+.004 / -.000	0.169	+.004 / -.004	36.49
RSS-03250/3	3.250	+.000 / -.003				3.250	+.000 / -.003	3.844	+.005 / -.000	0.252	+.004 / -.004	36.48

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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-03250/4*	3.250	+.000 / -.003				3.250	+.000 / -.003	4.057	+.006 / -.000	0.323	+.004 / -.004	36.49
RSS-03375/2*	3.375	+.000 / -.003				3.375	+.000 / -.003	3.796	+.004 / -.000	0.169	+.004 / -.004	36.49
RSS-03375/3*	3.375	+.000 / -.003				3.375	+.000 / -.003	3.969	+.005 / -.000	0.252	+.004 / -.004	36.49
RSS-03375/4*	3.375	+.000 / -.003				3.375	+.000 / -.003	4.182	+.006 / -.000	0.323	+.004 / -.004	36.49
RSS-03500/2	3.500	+.000 / -.003				3.500	+.000 / -.003	3.921	+.004 / -.000	0.169	+.004 / -.004	36.49
RSS-03500/3	3.500	+.000 / -.003				3.500	+.000 / -.003	4.094	+.005 / -.000	0.252	+.004 / -.004	36.86
RSS-03500/4*	3.500	+.000 / -.003				3.500	+.000 / -.003	4.307	+.006 / -.000	0.323	+.004 / -.004	40.49
RSS-03625/2	3.625	+.000 / -.003				3.625	+.000 / -.003	4.046	+.004 / -.000	0.169	+.004 / -.004	40.49
RSS-03625/3	3.625	+.000 / -.003				3.625	+.000 / -.003	4.219	+.005 / -.000	0.252	+.004 / -.004	40.49
RSS-03625/4*	3.625	+.000 / -.003				3.625	+.000 / -.003	4.432	+.004 / -.000	0.323	+.004 / -.004	40.49
RSS-03750/2*	3.750	+.000 / -.003				3.750	+.000 / -.003	4.171	+.006 / -.000	0.169	+.004 / -.004	42.52
RSS-03750/3	3.750	+.000 / -.003				3.750	+.000 / -.003	4.344	+.005 / -.000	0.252	+.004 / -.004	47.99
RSS-03750/4*	3.750	+.000 / -.003				3.750	+.000 / -.003	4.557	+.006 / -.000	0.323	+.004 / -.004	48.00
RSS-03875/2*	3.875	+.000 / -.003				3.875	+.000 / -.003	4.296	+.004 / -.000	0.169	+.004 / -.004	45.58
RSS-03875/3*	3.875	+.000 / -.003				3.875	+.000 / -.003	4.469	+.005 / -.000	0.252	+.004 / -.004	45.58
RSS-03875/4*	3.875	+.000 / -.003				3.875	+.000 / -.003	4.682	+.006 / -.000	0.323	+.004 / -.004	45.58
RSS-04000/2	4.000	+.000 / -.003				4.000	+.000 / -.003	4.421	+.004 / -.000	0.169	+.004 / -.004	45.58
RSS-04000/3	4.000	+.000 / -.005				4.000	+.000 / -.005	4.594	+.005 / -.000	0.252	+.004 / -.004	50.80
RSS-04000/4	4.000	+.000 / -.005				4.000	+.000 / -.005	4.807	+.006 / -.000	0.323	+.004 / -.004	46.35
RSS-04125/2*	4.125	+.000 / -.005				4.125	+.000 / -.005	4.546	+.004 / -.000	0.169	+.004 / -.004	48.00
RSS-04125/3*	4.125	+.000 / -.005				4.125	+.000 / -.005	4.719	+.005 / -.000	0.252	+.004 / -.004	48.00
RSS-04125/4*	4.125	+.000 / -.005				4.125	+.000 / -.005	4.932	+.006 / -.000	0.323	+.004 / -.004	48.00
RSS-04250/2	4.250	+.000 / -.005				4.250	+.000 / -.005	4.671	+.004 / -.000	0.169	+.004 / -.004	48.00
RSS-04250/3	4.250	+.000 / -.005				4.250	+.000 / -.005	4.844	+.005 / -.000	0.252	+.004 / -.004	48.00
RSS-04250/4*	4.250	+.000 / -.005				4.250	+.000 / -.005	5.057	+.006 / -.000	0.323	+.004 / -.004	48.00
RSS-04375/2*	4.375	+.000 / -.005				4.375	+.000 / -.005	4.796	+.004 / -.000	0.169	+.004 / -.004	53.56
RSS-04375/3*	4.375	+.000 / -.005				4.375	+.000 / -.005	4.969	+.005 / -.000	0.252	+.004 / -.004	53.56
RSS-04375/4*	4.375	+.000 / -.005				4.375	+.000 / -.005	5.182	+.006 / -.000	0.323	+.004 / -.004	53.56
RSS-04500/2	4.500	+.000 / -.005				4.500	+.000 / -.005	4.921	+.004 / -.000	0.169	+.004 / -.004	55.29
RSS-04500/3	4.500	+.000 / -.005				4.500	+.000 / -.005	5.094	+.005 / -.000	0.252	+.004 / -.004	63.15
RSS-04500/3-NYL	4.500	+.000 / -.005				4.500	+.000 / -.005	5.094	+.005 / -.000	0.252	+.004 / -.004	55.29
RSS-04500/4*	4.500	+.000 / -.005				4.500	+.000 / -.005	5.307	+.006 / -.000	0.323	+.004 / -.004	60.51
RSS-04625/2*	4.625	+.000 / -.005				4.625	+.000 / -.005	5.046	+.004 / -.000	0.169	+.004 / -.004	60.51
RSS-04625/3*	4.625	+.000 / -.005				4.625	+.000 / -.005	5.219	+.005 / -.000	0.252	+.004 / -.004	60.51
RSS-04625/4*	4.625	+.000 / -.005				4.625	+.000 / -.005	5.432	+.006 / -.000	0.323	+.004 / -.004	60.51
RSS-04750/2*	4.750	+.000 / -.005				4.750	+.000 / -.005	5.171	+.004 / -.000	0.169	+.004 / -.004	65.21
RSS-04750/3	4.750	+.000 / -.005				4.750	+.000 / -.005	5.344	+.005 / -.000	0.252	+.004 / -.004	65.21
RSS-04750/4*	4.750	+.000 / -.005				4.750	+.000 / -.005	5.557	+.006 / -.000	0.323	+.004 / -.004	65.21
RSS-04875/2*	4.875	+.000 / -.005				4.875	+.000 / -.005	5.296	+.004 / -.000	0.169	+.004 / -.004	65.21
RSS-04875/3*	4.875	+.000 / -.005				4.875	+.000 / -.005	5.469	+.005 / -.000	0.252	+.004 / -.004	65.21
RSS-04875/4*	4.875	+.000 / -.005				4.875	+.000 / -.005	5.682	+.006 / -.000	0.323	+.004 / -.004	65.21
RSS-05000/2	5.000	+.000 / -.005				5.000	+.000 / -.005	5.421	+.004 / -.000	0.169	+.004 / -.004	67.18
RSS-05000/3	5.000	+.000 / -.005				5.000	+.000 / -.005	5.594	+.005 / -.000	0.252	+.004 / -.004	67.18
RSS-05000/4	5.000	+.000 / -.005				5.000	+.000 / -.005	5.807	+.006 / -.000	0.323	+.004 / -.004	67.65
RSS-05125/2*	5.125	+.000 / -.005				5.125	+.000 / -.005	5.546	+.004 / -.000	0.169	+.004 / -.004	67.65
RSS-05125/3*	5.125	+.000 / -.005				5.125	+.000 / -.005	5.719	+.005 / -.000	0.252	+.004 / -.004	67.65
RSS-05125/4*	5.125	+.000 / -.005				5.125	+.000 / -.005	5.932	+.006 / -.000	0.323	+.004 / -.004	67.65
RSS-05250/2*	5.250	+.000 / -.005				5.250	+.000 / -.005	5.671	+.004 / -.000	0.169	+.004 / -.004	67.65

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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-05250/3	5.250	+.000 / -.005				5.250	+.000 / -.005	5.844	+.005 / -.000	0.252	+.004 / -.004	67.65
RSS-05250/4	5.250	+.000 / -.005				5.250	+.000 / -.005	6.057	+.006 / -.000	0.323	+.004 / -.004	67.65
RSS-05375/2*	5.375	+.000 / -.005				5.375	+.000 / -.005	5.796	+.004 / -.000	0.169	+.004 / -.004	67.65
RSS-05375/3*	5.375	+.000 / -.005				5.375	+.000 / -.005	5.969	+.005 / -.000	0.252	+.004 / -.004	67.65
RSS-05375/4*	5.375	+.000 / -.005				5.375	+.000 / -.005	6.182	+.006 / -.000	0.323	+.004 / -.004	67.65
RSS-05500/2*	5.500	+.000 / -.005				5.500	+.000 / -.005	5.921	+.004 / -.000	0.169	+.004 / -.004	67.65
RSS-05500/3	5.500	+.000 / -.005				5.500	+.000 / -.005	6.094	+.005 / -.000	0.252	+.004 / -.004	71.35
RSS-05500/4	5.500	+.000 / -.005				5.500	+.000 / -.005	6.307	+.006 / -.000	0.323	+.004 / -.004	71.35
RSS-05625/2*	5.625	+.000 / -.005				5.625	+.000 / -.005	6.046	+.004 / -.000	0.169	+.004 / -.004	71.35
RSS-05625/3*	5.625	+.000 / -.005				5.625	+.000 / -.005	6.219	+.005 / -.000	0.252	+.004 / -.004	71.35
RSS-05625/4*	5.625	+.000 / -.005				5.625	+.000 / -.005	6.432	+.006 / -.000	0.323	+.004 / -.004	71.35
RSS-05750/2*	5.750	+.000 / -.005				5.750	+.000 / -.005	6.171	+.004 / -.000	0.169	+.004 / -.004	71.35
RSS-05750/3	5.750	+.000 / -.005				5.750	+.000 / -.005	6.344	+.005 / -.000	0.252	+.004 / -.004	64.27
RSS-05750/4	5.750	+.000 / -.005				5.750	+.000 / -.005	6.557	+.006 / -.000	0.323	+.004 / -.004	64.26
RSS-06000/2	6.000	+.000 / -.005				6.000	+.000 / -.005	6.421	+.004 / -.000	0.169	+.004 / -.004	64.27
RSS-06000/3	6.000	+.000 / -.005				6.000	+.000 / -.005	6.594	+.005 / -.000	0.252	+.004 / -.004	61.69
RSS-06000/4	6.000	+.000 / -.005				6.000	+.000 / -.005	6.807	+.006 / -.000	0.323	+.004 / -.004	64.24
RSS-06250/2*	6.250	+.000 / -.005				6.250	+.000 / -.005	6.671	+.004 / -.000	0.169	+.004 / -.004	76.81
RSS-06250/3*	6.250	+.000 / -.005				6.250	+.000 / -.005	6.844	+.005 / -.000	0.252	+.004 / -.004	76.81
RSS-06250/4*	6.250	+.000 / -.005				6.250	+.000 / -.005	7.057	+.006 / -.000	0.323	+.004 / -.004	76.81
RSS-06500/2*	6.500	+.000 / -.005				6.500	+.000 / -.005	6.921	+.004 / -.000	0.169	+.004 / -.004	76.81
RSS-06500/3*	6.500	+.000 / -.005				6.500	+.000 / -.005	7.094	+.005 / -.000	0.252	+.004 / -.004	32.13
RSS-06500/4	6.500	+.000 / -.005				6.500	+.000 / -.005	7.307	+.006 / -.000	0.323	+.004 / -.004	76.81
RSS-06750/2*	6.750	+.000 / -.005				6.750	+.000 / -.005	7.171	+.004 / -.000	0.169	+.004 / -.004	76.81
RSS-06750/3	6.750	+.000 / -.005				6.750	+.000 / -.005	7.344	+.005 / -.000	0.252	+.004 / -.004	76.81
RSS-06750/4	6.750	+.000 / -.005				6.750	+.000 / -.005	7.557	+.006 / -.000	0.323	+.004 / -.004	79.64
RSS-07000/2*	7.000	+.000 / -.005				7.000	+.000 / -.005	7.421	+.004 / -.000	0.169	+.004 / -.004	76.81
RSS-07000/3	7.000	+.000 / -.005				7.000	+.000 / -.005	7.594	+.005 / -.000	0.252	+.004 / -.004	73.83
RSS-07000/4	7.000	+.000 / -.005				7.000	+.000 / -.005	7.807	+.006 / -.000	0.323	+.004 / -.004	87.12
RSS-07250/2*	7.250	+.000 / -.005				7.250	+.000 / -.005	7.671	+.004 / -.000	0.169	+.004 / -.004	89.16
RSS-07250/3*	7.250	+.000 / -.005				7.250	+.000 / -.005	7.844	+.005 / -.000	0.252	+.004 / -.004	89.16
RSS-07250/4	7.250	+.000 / -.005				7.250	+.000 / -.005	8.057	+.006 / -.000	0.323	+.004 / -.004	89.16
RSS-07500/2*	7.500	+.000 / -.005				7.500	+.000 / -.005	7.921	+.004 / -.000	0.169	+.004 / -.004	97.59
RSS-07500/3	7.500	+.000 / -.005				7.500	+.000 / -.005	8.094	+.005 / -.000	0.252	+.004 / -.004	97.59
RSS-07500/4	7.500	+.000 / -.005				7.500	+.000 / -.005	8.307	+.006 / -.000	0.323	+.004 / -.004	97.59
RSS-07750/2*	7.750	+.000 / -.005				7.750	+.000 / -.005	8.171	+.004 / -.000	0.169	+.004 / -.004	97.59
RSS-07750/3*	7.750	+.000 / -.005				7.750	+.000 / -.005	8.344	+.005 / -.000	0.252	+.004 / -.004	97.59
RSS-07750/4	7.750	+.000 / -.005				7.750	+.000 / -.005	8.557	+.006 / -.000	0.323	+.004 / -.004	97.59
RSS-08000/3	8.000	+.000 / -.005				8.000	+.000 / -.005	8.594	+.005 / -.000	0.252	+.004 / -.004	99.73
RSS-08000/4	8.000	+.000 / -.005				8.000	+.000 / -.005	8.807	+.006 / -.000	0.323	+.004 / -.004	99.73
RSS-08000/4-1	8.000	+.000 / -.005				8.000	+.000 / -.005	8.945	+.006 / -.000	0.323	+.004 / -.004	99.73
RSS-08250/3*	8.250	+.000 / -.005				8.250	+.000 / -.005	8.844	+.005 / -.000	0.252	+.004 / -.004	107.55
RSS-08250/4*	8.250	+.000 / -.005				8.250	+.000 / -.005	9.057	+.006 / -.000	0.323	+.004 / -.004	128.02
RSS-08250/4-1*	8.250	+.000 / -.005				8.250	+.000 / -.005	9.195	+.006 / -.000	0.323	+.004 / -.004	107.55
RSS-08500/3	8.500	+.000 / -.005				8.500	+.000 / -.005	9.094	+.005 / -.000	0.252	+.004 / -.004	107.55
RSS-08500/4	8.500	+.000 / -.005				8.500	+.000 / -.005	9.307	+.006 / -.000	0.323	+.004 / -.004	107.55
RSS-08500/4-1	8.500	+.000 / -.005				8.500	+.000 / -.005	9.445	+.006 / -.000	0.323	+.004 / -.004	107.55
RSS-08750/3*	8.750	+.000 / -.005				8.750	+.000 / -.005	9.344	+.005 / -.000	0.252	+.004 / -.004	112.92

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

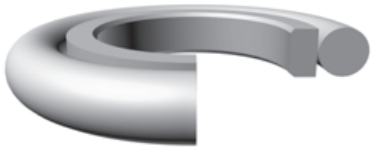
RSS SERIES - BR.PTFE/NBR

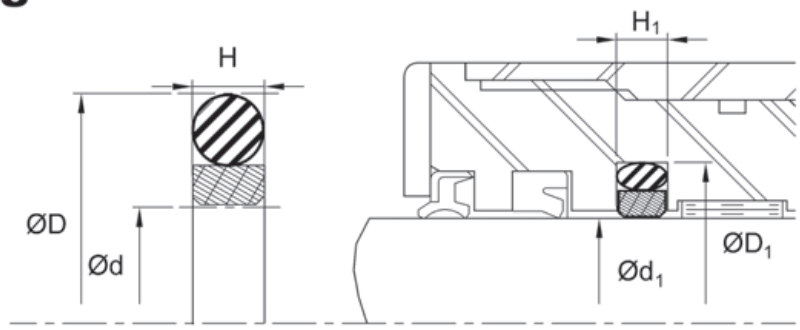
Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
RSS-08750/4	8.750	+.000 / -.005				8.750	+.000 / -.005	9.557	+.006 / -.000	0.323	+.004 / -.004	112.92
RSS-08750/4-1*	8.750	+.000 / -.005				8.750	+.000 / -.005	9.695	+.006 / -.000	0.323	+.004 / -.004	112.92
RSS-09000/3	9.000	+.000 / -.005				9.000	+.000 / -.005	9.594	+.005 / -.000	0.252	+.004 / -.004	88.63
RSS-09000/4	9.000	+.000 / -.005				9.000	+.000 / -.005	9.807	+.006 / -.000	0.323	+.004 / -.004	88.62
RSS-09000/4-1*	9.000	+.000 / -.005				9.000	+.000 / -.005	9.945	+.006 / -.000	0.323	+.004 / -.004	111.80
RSS-09250/3*	9.250	+.000 / -.005				9.250	+.000 / -.005	9.844	+.005 / -.000	0.252	+.004 / -.004	123.56
RSS-09250/4*	9.250	+.000 / -.005				9.250	+.000 / -.005	10.057	+.006 / -.000	0.323	+.004 / -.004	123.56
RSS-09250/4-1*	9.250	+.000 / -.005				9.250	+.000 / -.005	10.195	+.006 / -.000	0.323	+.004 / -.004	123.56
RSS-09500/3*	9.500	+.000 / -.005				9.500	+.000 / -.005	10.094	+.005 / -.000	0.252	+.004 / -.004	123.56
RSS-09500/4	9.500	+.000 / -.005				9.500	+.000 / -.005	10.307	+.006 / -.000	0.323	+.004 / -.004	123.56
RSS-09500/4-1*	9.500	+.000 / -.005				9.500	+.000 / -.005	10.445	+.006 / -.000	0.323	+.004 / -.004	123.56
RSS-09750/3*	9.750	+.000 / -.005				9.750	+.000 / -.005	10.344	+.005 / -.000	0.252	+.004 / -.004	146.34
RSS-09750/4*	9.750	+.000 / -.005				9.750	+.000 / -.005	10.557	+.006 / -.000	0.323	+.004 / -.004	146.34
RSS-09750/4-1*	9.750	+.000 / -.005				9.750	+.000 / -.005	10.695	+.006 / -.000	0.323	+.004 / -.004	146.34
RSS-10000/4	10.000	+.000 / -.005				10.000	+.000 / -.005	10.807	+.006 / -.000	0.323	+.004 / -.004	146.34
RSS-10000/4-1	10.000	+.000 / -.005				10.000	+.000 / -.005	10.945	+.006 / -.000	0.323	+.004 / -.004	146.34
RSS-10000/5*	10.000	+.000 / -.005				10.000	+.000 / -.005	11.075	+.006 / -.000	0.378	+.004 / -.004	146.34
RSS-10250/4*	10.250	+.000 / -.005				10.250	+.000 / -.005	11.057	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-10500/4*	10.500	+.000 / -.005				10.500	+.000 / -.005	11.307	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-10750/4*	10.750	+.000 / -.005				10.750	+.000 / -.005	11.557	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-11000/4*	11.000	+.000 / -.005				11.000	+.000 / -.005	11.807	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-11250/4*	11.250	+.000 / -.005				11.250	+.000 / -.005	12.057	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-11500/4	11.500	+.000 / -.005				11.500	+.000 / -.005	12.307	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-11750/4*	11.750	+.000 / -.005				11.750	+.000 / -.005	12.557	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-12000/4	12.000	+.000 / -.005				12.000	+.000 / -.005	12.807	+.006 / -.000	0.323	+.004 / -.004	184.86
RSS-14500/4*	14.500	+.000 / -.005				14.500	+.000 / -.005	15.307	+.006 / -.000	0.323	+.004 / -.004	225.56
RSS-14500/4-1*	14.500	+.000 / -.005				14.500	+.000 / -.005	15.445	+.006 / -.000	0.323	+.004 / -.004	225.56
RSS-15500/4-1*	15.500	+.000 / -.005				15.500	+.000 / -.005	16.445	+.006 / -.000	0.323	+.004 / -.004	226.40
RSS-15750/4*	15.750	+.000 / -.005				15.750	+.000 / -.005	15.557	+.006 / -.000	0.323	+.004 / -.004	257.74
RSS-15750/4-1*	15.750	+.000 / -.005				15.750	+.000 / -.005	16.695	+.006 / -.000	0.323	+.004 / -.004	242.01
RSS-18500/4-1*	18.500	+.000 / -.005				18.500	+.000 / -.005	19.445	+.006 / -.000	0.323	+.004 / -.004	315.30

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

R2B - Buffer Seals

BR.PTFE/Nitrile





Temperature: -30/250F [-34/121C] **Pressure: 5800 PSI [400 Bar]**

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	+.000 / -.001	0.505	+.002 / -.000	0.090	+.004 / -.004	16.21
R2B-00375/0*	0.375	+.000 / -.001				0.375	+.000 / -.001	0.568	+.002 / -.000	0.090	+.004 / -.004	16.21
R2B-00437/0*	0.437	+.000 / -.001				0.437	+.000 / -.001	0.630	+.002 / -.000	0.090	+.004 / -.004	16.21
R2B-00500/0*	0.500	+.000 / -.001				0.500	+.000 / -.001	0.693	+.002 / -.000	0.090	+.004 / -.004	16.21
R2B-00562/0*	0.562	+.000 / -.001				0.562	+.000 / -.001	0.755	+.002 / -.000	0.090	+.004 / -.004	16.21
R2B-00625/1*	0.625	+.000 / -.001				0.625	+.000 / -.001	0.912	+.002 / -.000	0.130	+.004 / -.004	16.21
R2B-00687/1*	0.687	+.000 / -.001				0.687	+.000 / -.001	0.974	+.002 / -.000	0.130	+.004 / -.004	16.21
R2B-00750/1*	0.750	+.000 / -.001				0.750	+.000 / -.001	1.037	+.002 / -.000	0.130	+.004 / -.004	21.37
R2B-00812/1*	0.812	+.000 / -.001				0.812	+.000 / -.001	1.099	+.002 / -.000	0.130	+.004 / -.004	21.37
R2B-00875/1*	0.875	+.000 / -.001				0.875	+.000 / -.001	1.162	+.002 / -.000	0.130	+.004 / -.004	21.37
R2B-00937/1*	0.937	+.000 / -.001				0.937	+.000 / -.001	1.224	+.002 / -.000	0.130	+.004 / -.004	21.37
R2B-01000/1	1.000	+.000 / -.001				1.000	+.000 / -.001	1.287	+.002 / -.000	0.130	+.004 / -.004	21.37
R2B-01062/1*	1.062	+.000 / -.001				1.062	+.000 / -.001	1.349	+.002 / -.000	0.130	+.004 / -.004	21.37
R2B-01125/1*	1.125	+.000 / -.001				1.125	+.000 / -.001	1.412	+.002 / -.000	0.130	+.004 / -.004	24.42
R2B-01187/1*	1.187	+.000 / -.001				1.187	+.000 / -.001	1.474	+.002 / -.000	0.130	+.004 / -.004	24.42
R2B-01250/1*	1.250	+.000 / -.001				1.250	+.000 / -.001	1.537	+.002 / -.000	0.130	+.004 / -.004	24.42
R2B-01312/1*	1.312	+.000 / -.001				1.312	+.000 / -.001	1.599	+.002 / -.000	0.130	+.004 / -.004	24.42
R2B-01375/1*	1.375	+.000 / -.001				1.375	+.000 / -.001	1.662	+.002 / -.000	0.130	+.004 / -.004	24.42
R2B-01437/1*	1.437	+.000 / -.001				1.437	+.000 / -.001	1.724	+.002 / -.000	0.130	+.004 / -.004	24.42
R2B-01500/1*	1.500	+.000 / -.002				1.500	+.000 / -.002	1.787	+.002 / -.000	0.130	+.004 / -.004	27.17
R2B-01500/2	1.500	+.000 / -.002				1.500	+.000 / -.002	1.921	+.002 / -.000	0.169	+.004 / -.004	27.16
R2B-01562/1*	1.562	+.000 / -.002				1.562	+.000 / -.002	1.849	+.002 / -.000	0.130	+.004 / -.004	27.17
R2B-01625/2*	1.625	+.000 / -.002				1.625	+.000 / -.002	2.046	+.003 / -.000	0.169	+.004 / -.004	27.17
R2B-01687/2*	1.687	+.000 / -.002				1.687	+.000 / -.002	2.108	+.003 / -.000	0.169	+.004 / -.004	27.17
R2B-01750/2*	1.750	+.000 / -.002				1.750	+.000 / -.002	2.171	+.003 / -.000	0.169	+.004 / -.004	27.17
R2B-01812/2*	1.812	+.000 / -.002				1.812	+.000 / -.002	2.233	+.003 / -.000	0.169	+.004 / -.004	27.17
R2B-01875/2*	1.875	+.000 / -.002				1.875	+.000 / -.002	2.296	+.003 / -.000	0.169	+.004 / -.004	27.17
R2B-01937/2*	1.937	+.000 / -.002				1.937	+.000 / -.002	2.358	+.003 / -.000	0.169	+.004 / -.004	30.25
R2B-02000/2	2.000	+.000 / -.002				2.000	+.000 / -.002	2.421	+.003 / -.000	0.169	+.004 / -.004	30.25
R2B-02125/2*	2.125	+.000 / -.002				2.125	+.000 / -.002	2.546	+.003 / -.000	0.169	+.004 / -.004	30.25
R2B-02250/2	2.250	+.000 / -.002				2.250	+.000 / -.002	2.671	+.003 / -.000	0.169	+.004 / -.004	30.25
R2B-02375/2*	2.375	+.000 / -.002				2.375	+.000 / -.002	2.796	+.003 / -.000	0.169	+.004 / -.004	30.25
R2B-02500/2	2.500	+.000 / -.002				2.500	+.000 / -.002	2.921	+.003 / -.000	0.169	+.004 / -.004	33.00
R2B-02625/2*	2.625	+.000 / -.002				2.625	+.000 / -.002	3.046	+.003 / -.000	0.169	+.004 / -.004	33.00
R2B-02750/2	2.750	+.000 / -.002				2.750	+.000 / -.002	3.171	+.003 / -.000	0.169	+.004 / -.004	33.00
R2B-02875/2*	2.875	+.000 / -.002				2.875	+.000 / -.002	3.296	+.003 / -.000	0.169	+.004 / -.004	33.00
R2B-03000/2	3.000	+.000 / -.003				3.000	+.000 / -.003	3.421	+.003 / -.000	0.169	+.004 / -.004	33.00

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

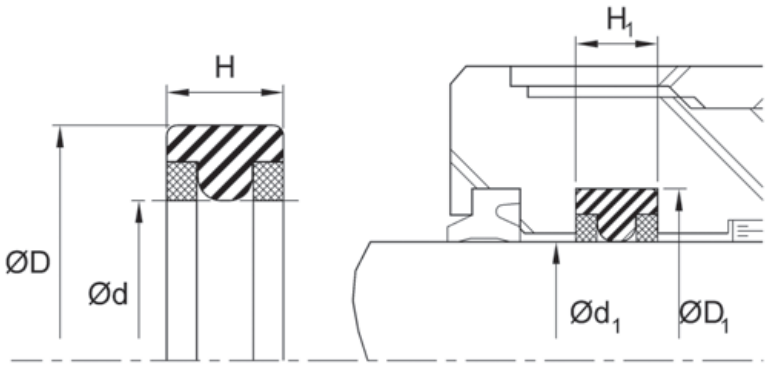
R2B SERIES - BR.PTFE/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R2B-03125/2*	3.125	+.000 / -.003				3.125	+.000 / -.003	3.546	+.003 / -.000	0.169	+.004 / -.004	33.00
R2B-03250/3	3.250	+.000 / -.003				3.250	+.000 / -.003	3.844	+.003 / -.000	0.252	+.004 / -.004	33.00
R2B-03375/3*	3.375	+.000 / -.003				3.375	+.000 / -.003	3.969	+.003 / -.000	0.252	+.004 / -.004	33.00
R2B-03500/3	3.500	+.000 / -.003				3.500	+.000 / -.003	4.094	+.003 / -.000	0.252	+.004 / -.004	36.15
R2B-03625/3	3.625	+.000 / -.003				3.625	+.000 / -.003	4.219	+.003 / -.000	0.252	+.004 / -.004	36.15
R2B-03750/3*	3.750	+.000 / -.003				3.750	+.000 / -.003	4.344	+.003 / -.000	0.252	+.004 / -.004	36.15
R2B-03875/3*	3.875	+.000 / -.003				3.875	+.000 / -.003	4.469	+.003 / -.000	0.252	+.004 / -.004	36.15
R2B-04000/3	4.000	+.000 / -.005				4.000	+.000 / -.005	4.594	+.003 / -.000	0.252	+.004 / -.004	39.93
R2B-04125/3	4.125	+.000 / -.005				4.125	+.000 / -.005	4.719	+.003 / -.000	0.252	+.004 / -.004	39.93
R2B-04250/3*	4.250	+.000 / -.005				4.250	+.000 / -.005	4.844	+.004 / -.000	0.252	+.004 / -.004	39.93
R2B-04375/3*	4.375	+.000 / -.005				4.375	+.000 / -.005	4.969	+.004 / -.000	0.252	+.004 / -.004	39.93
R2B-04500/3	4.500	+.000 / -.005				4.500	+.000 / -.005	5.094	+.004 / -.000	0.252	+.004 / -.004	42.90
R2B-04625/3*	4.625	+.000 / -.005				4.625	+.000 / -.005	5.219	+.004 / -.000	0.252	+.004 / -.004	42.90
R2B-04750/3	4.750	+.000 / -.005				4.750	+.000 / -.005	5.344	+.004 / -.000	0.252	+.004 / -.004	42.90
R2B-04875/3*	4.875	+.000 / -.005				4.875	+.000 / -.005	5.469	+.004 / -.000	0.252	+.004 / -.004	42.90
R2B-05000/3*	5.000	+.000 / -.005				5.000	+.000 / -.005	5.594	+.004 / -.000	0.252	+.004 / -.004	48.66
R2B-05125/3*	5.125	+.000 / -.005				5.125	+.000 / -.005	5.719	+.004 / -.000	0.252	+.004 / -.004	48.66
R2B-05250/3*	5.250	+.000 / -.005				5.250	+.000 / -.005	5.844	+.004 / -.000	0.252	+.004 / -.004	48.66
R2B-05375/4*	5.375	+.000 / -.005				5.375	+.000 / -.005	6.182	+.004 / -.000	0.323	+.004 / -.004	48.66
R2B-05500/4*	5.500	+.000 / -.005				5.500	+.000 / -.005	6.307	+.004 / -.000	0.323	+.004 / -.004	51.55
R2B-05625/4*	5.625	+.000 / -.005				5.625	+.000 / -.005	6.432	+.004 / -.000	0.323	+.004 / -.004	51.55
R2B-05750/4*	5.750	+.000 / -.005				5.750	+.000 / -.005	6.557	+.004 / -.000	0.323	+.004 / -.004	51.55
R2B-06000/4*	6.000	+.000 / -.005				6.000	+.000 / -.005	6.807	+.004 / -.000	0.323	+.004 / -.004	60.09
R2B-06250/4*	6.250	+.000 / -.005				6.250	+.000 / -.005	7.057	+.004 / -.000	0.323	+.004 / -.004	60.09
R2B-06500/4*	6.500	+.000 / -.005				6.500	+.000 / -.005	7.307	+.005 / -.000	0.323	+.004 / -.004	60.09
R2B-06750/4*	6.750	+.000 / -.005				6.750	+.000 / -.005	7.557	+.005 / -.000	0.323	+.004 / -.004	60.09
R2B-07000/4*	7.000	+.000 / -.005				7.000	+.000 / -.005	7.807	+.005 / -.000	0.323	+.004 / -.004	66.87
R2B-07250/4*	7.250	+.000 / -.005				7.250	+.000 / -.005	8.057	+.005 / -.000	0.323	+.004 / -.004	66.87
R2B-07500/4*	7.500	+.000 / -.005				7.500	+.000 / -.005	8.307	+.005 / -.000	0.323	+.004 / -.004	69.70
R2B-07750/4*	7.750	+.000 / -.005				7.750	+.000 / -.005	8.557	+.005 / -.000	0.323	+.004 / -.004	69.70
R2B-08000/4*	8.000	+.000 / -.005				8.000	+.000 / -.005	8.807	+.005 / -.000	0.323	+.004 / -.004	71.23
R2B-08250/4*	8.250	+.000 / -.005				8.250	+.000 / -.005	9.057	+.005 / -.000	0.323	+.004 / -.004	76.81
R2B-08500/4*	8.500	+.000 / -.005				8.500	+.000 / -.005	9.307	+.005 / -.000	0.323	+.004 / -.004	76.81
R2B-08750/4*	8.750	+.000 / -.005				8.750	+.000 / -.005	9.557	+.005 / -.000	0.323	+.004 / -.004	79.85
R2B-09000/4*	9.000	+.000 / -.005				9.000	+.000 / -.005	9.807	+.005 / -.000	0.323	+.004 / -.004	79.85
R2B-09250/4*	9.250	+.000 / -.005				9.250	+.000 / -.005	10.057	+.005 / -.000	0.323	+.004 / -.004	88.25
R2B-09500/4*	9.500	+.000 / -.005				9.500	+.000 / -.005	10.307	+.005 / -.000	0.323	+.004 / -.004	88.25
R2B-09750/4*	9.750	+.000 / -.005				9.750	+.000 / -.005	10.557	+.005 / -.000	0.323	+.004 / -.004	104.53
R2B-10000/4*	10.000	+.000 / -.005				10.000	+.000 / -.005	10.807	+.005 / -.000	0.323	+.004 / -.004	104.53

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

TR - Rod Seals

Nitrile/Nylon



Temperature: -40/225F [-40/107C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
TR-106*	0.187	+.001/-.001	0.187	0.375		0.187	+.001/-.001	0.370	+.000/-.002	0.150	+.005/-.000	4.92
TR-108*	0.250	+.001/-.001	0.250	0.437		0.250	+.001/-.001	0.433	+.000/-.002	0.150	+.005/-.000	4.92
TR-109*	0.312	+.001/-.001	0.312	0.500		0.312	+.001/-.001	0.495	+.000/-.002	0.150	+.005/-.000	4.92
TR-204*	0.375	+.001/-.001	0.375	0.625		0.375	+.001/-.001	0.618	+.000/-.002	0.185	+.005/-.000	4.92
TR-205*	0.437	+.001/-.001	0.437	0.687		0.437	+.001/-.001	0.680	+.000/-.002	0.185	+.005/-.000	7.77
TR-206	0.500	+.001/-.001	0.500	0.750		0.500	+.001/-.001	0.743	+.000/-.002	0.185	+.005/-.000	8.31
TR-207*	0.562	+.001/-.001	0.562	0.812		0.562	+.001/-.001	0.805	+.000/-.002	0.185	+.005/-.000	7.88
TR-208	0.625	+.001/-.001	0.625	0.875		0.625	+.001/-.001	0.868	+.000/-.002	0.185	+.005/-.000	6.13
TR-209*	0.687	+.001/-.001	0.687	0.937		0.687	+.001/-.001	0.930	+.000/-.002	0.185	+.005/-.000	6.14
TR-210	0.750	+.001/-.001	0.750	1.000		0.750	+.001/-.001	0.992	+.000/-.002	0.185	+.005/-.000	6.48
TR-211*	0.812	+.001/-.001	0.812	1.062		0.812	+.001/-.001	1.054	+.000/-.002	0.185	+.005/-.000	7.09
TR-212	0.875	+.001/-.001	0.875	1.125		0.875	+.001/-.001	1.117	+.000/-.002	0.185	+.005/-.000	7.37
TR-213*	0.937	+.001/-.001	0.937	1.187		0.937	+.001/-.001	1.179	+.000/-.002	0.185	+.005/-.000	6.91
TR-214	1.000	+.001/-.001	1.000	1.250		1.000	+.001/-.001	1.242	+.000/-.002	0.185	+.005/-.000	6.48
TR-215*	1.062	+.001/-.001	1.062	1.312		1.062	+.001/-.001	1.304	+.000/-.002	0.185	+.005/-.000	6.71
TR-216	1.125	+.001/-.001	1.125	1.375		1.125	+.001/-.001	1.367	+.000/-.002	0.185	+.005/-.000	7.37
TR-217*	1.187	+.001/-.001	1.187	1.437		1.187	+.001/-.001	1.429	+.000/-.002	0.185	+.005/-.000	12.98
TR-218	1.250	+.001/-.001	1.250	1.500		1.250	+.001/-.001	1.492	+.000/-.002	0.185	+.005/-.000	6.62
TR-219*	1.312	+.001/-.001	1.312	1.562		1.312	+.001/-.001	1.554	+.000/-.002	0.185	+.005/-.000	7.08
TR-220	1.375	+.001/-.001	1.375	1.625		1.375	+.001/-.001	1.617	+.000/-.002	0.185	+.005/-.000	7.37
TR-221	1.437	+.001/-.001	1.437	1.687		1.437	+.001/-.001	1.679	+.000/-.002	0.185	+.005/-.000	7.35
TR-222	1.500	+.001/-.001	1.500	1.750		1.500	+.001/-.001	1.742	+.000/-.002	0.185	+.005/-.000	7.37
TR-325	1.500	+.001/-.001	1.500	1.875		1.500	+.001/-.001	1.871	+.000/-.002	0.280	+.005/-.000	8.50
TR-326	1.625	+.001/-.001	1.625	2.000		1.625	+.001/-.001	1.996	+.000/-.002	0.280	+.005/-.000	9.10
TR-327	1.750	+.001/-.001	1.750	2.125		1.750	+.001/-.001	2.121	+.000/-.002	0.280	+.005/-.000	6.82
TR-328	1.875	+.001/-.001	1.875	2.250		1.875	+.001/-.001	2.246	+.000/-.002	0.280	+.005/-.000	9.41
TR-329	2.000	+.001/-.001	2.000	2.375		2.000	+.001/-.001	2.371	+.000/-.002	0.280	+.005/-.000	7.61
TR-330	2.125	+.001/-.001	2.125	2.500		2.125	+.001/-.001	2.496	+.000/-.002	0.280	+.005/-.000	8.04
TR-331	2.250	+.001/-.001	2.250	2.625		2.250	+.001/-.001	2.613	+.000/-.002	0.280	+.005/-.000	8.97
TR-332	2.375	+.002/-.002	2.375	2.750		2.375	+.002/-.002	2.746	+.001/-.003	0.280	+.005/-.000	9.34
TR-333	2.500	+.002/-.002	2.500	2.875		2.500	+.002/-.002	2.871	+.001/-.003	0.280	+.005/-.000	9.42
TR-334	2.625	+.002/-.002	2.625	3.000		2.625	+.002/-.002	2.996	+.001/-.003	0.280	+.005/-.000	9.46
TR-335	2.750	+.002/-.002	2.750	3.125		2.750	+.002/-.002	3.121	+.001/-.003	0.280	+.005/-.000	10.75
TR-336	2.875	+.002/-.002	2.875	3.250		2.875	+.002/-.002	3.246	+.001/-.003	0.280	+.005/-.000	11.04
TR-337	3.000	+.002/-.002	3.000	3.375		3.000	+.002/-.002	3.370	+.001/-.003	0.280	+.005/-.000	11.55
TR-338*	3.125	+.002/-.002	3.125	3.500		3.125	+.002/-.002	3.495	+.001/-.003	0.280	+.005/-.000	12.35
TR-339	3.250	+.002/-.002	3.250	3.625		3.250	+.002/-.002	3.620	+.001/-.003	0.280	+.005/-.000	12.71

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

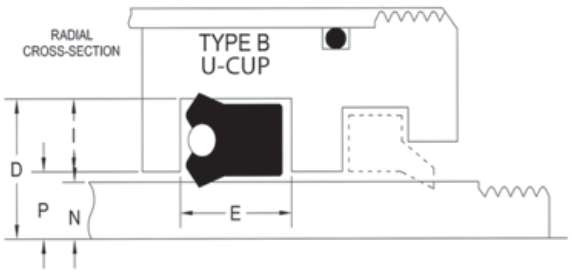
TR SERIES - NBR/NYLON

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
TR-340	3.375	+.002/-.002	3.375	3.750		3.375	+.002/-.002	3.745	+.001/-.003	0.280	+.005/-.000	13.67
TR-341	3.500	+.002/-.002	3.500	3.875		3.500	+.002/-.002	3.870	+.001/-.003	0.280	+.005/-.000	14.66
TR-342	3.625	+.002/-.002	3.625	4.000		3.625	+.002/-.002	3.995	+.001/-.003	0.280	+.005/-.000	15.36
TR-343	3.750	+.002/-.002	3.750	4.125		3.750	+.002/-.002	4.120	+.001/-.003	0.280	+.005/-.000	16.27
TR-344	3.875	+.002/-.002	3.875	4.250		3.875	+.002/-.002	4.245	+.001/-.003	0.280	+.005/-.000	18.25
TR-345	4.000	+.002/-.002	4.000	4.375		4.000	+.002/-.002	4.370	+.001/-.003	0.280	+.005/-.000	17.83
TR-346*	4.125	+.002/-.002	4.125	4.500		4.125	+.002/-.002	4.495	+.001/-.003	0.280	+.005/-.000	18.70
TR-347	4.250	+.002/-.002	4.250	4.625		4.250	+.002/-.002	4.620	+.001/-.003	0.280	+.005/-.000	19.42
TR-348*	4.375	+.002/-.002	4.375	4.750		4.375	+.002/-.002	4.745	+.001/-.003	0.280	+.005/-.000	22.05
TR-349	4.500	+.002/-.002	4.500	4.875		4.500	+.002/-.002	4.870	+.001/-.003	0.280	+.005/-.000	22.06
TR-429	5.000	+.002/-.002	5.000	5.500		5.000	+.002/-.002	5.475	+.001/-.003	0.366	+.005/-.000	27.80
TR-431	5.250	+.002/-.002	5.250	5.750		5.250	+.002/-.002	5.725	+.001/-.003	0.366	+.005/-.000	35.54
TR-433	5.500	+.002/-.002	5.500	6.000		5.500	+.002/-.002	5.975	+.001/-.003	0.366	+.005/-.000	59.69
TR-434*	5.625	+.002/-.002	5.625	6.125		5.625	+.002/-.002	6.100	+.001/-.003	0.366	+.005/-.000	55.83
TR-437	6.000	+.003/-.003	6.000	6.500		6.000	+.003/-.003	6.475	+.002/-.004	0.366	+.005/-.000	35.18
TR-438*	6.250	+.003/-.003	6.250	6.750		6.250	+.003/-.003	6.725	+.002/-.004	0.366	+.005/-.000	42.73
TR-439	6.500	+.003/-.003	6.500	7.000		6.500	+.003/-.003	6.975	+.002/-.004	0.366	+.005/-.000	48.61
TR-440*	6.750	+.003/-.003	6.750	7.250		6.750	+.003/-.003	7.225	+.002/-.004	0.366	+.005/-.000	52.70
TR-441*	7.000	+.003/-.003	7.000	7.500		7.000	+.003/-.003	7.475	+.002/-.004	0.366	+.005/-.000	57.18
TR-442*	7.250	+.003/-.003	7.250	7.750		7.250	+.003/-.003	7.725	+.002/-.004	0.366	+.005/-.000	60.43
TR-443*	7.500	+.003/-.003	7.500	8.000		7.500	+.003/-.003	7.984	+.002/-.004	0.366	+.005/-.000	63.40
TR-445	8.000	+.003/-.003	8.000	8.500		8.000	+.003/-.003	8.475	+.002/-.004	0.366	+.005/-.000	95.57
TR-447*	9.000	+.003/-.003	9.000	9.500		9.000	+.003/-.003	9.475	+.002/-.004	0.366	+.005/-.000	110.48
TR-448*	9.500	+.003/-.003	9.500	10.000		9.500	+.003/-.003	9.975	+.002/-.004	0.366	+.005/-.000	113.14
TR-449*	10.000	+.003/-.003	10.000	10.500		10.000	+.003/-.003	10.475	+.002/-.004	0.366	+.005/-.000	118.37
TR-451*	11.000	+.003/-.003	11.000	11.500		11.000	+.003/-.003	11.475	+.002/-.004	0.366	+.005/-.000	120.81

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

INFO	Loaded U-Cups Engineering	C	2
	STD Loaded U-Cups	C	4
	Deep Loaded U-Cups	C	15
	B Loaded U-Cups	C	23
	Modular Backup	C	36
	US	C	41
	AN6226	C	55
	8400	C	57
	FU	C	62
	HU	C	64

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	E Axial Groove Length Deep & Type B	P Throat Diameter	D 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	1/4	.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	3/8	.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.

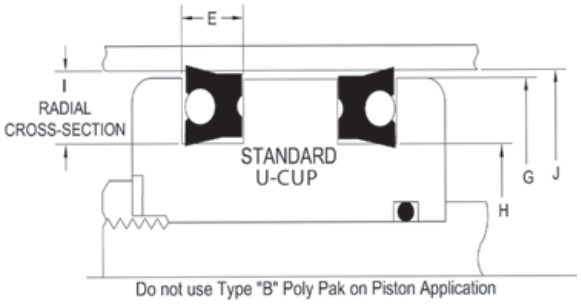
F_5 – The Groove Outside Diameter is calculated by taking the maximum Rod Diameter plus two radial cross-sections I.

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".

HIGH PERFORMANCE LOADED U-CUPS



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

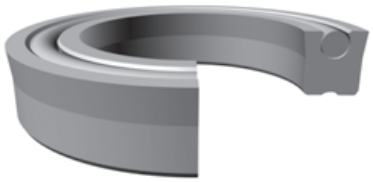
Axial groove length(E) = Given .550 + .015/-.000

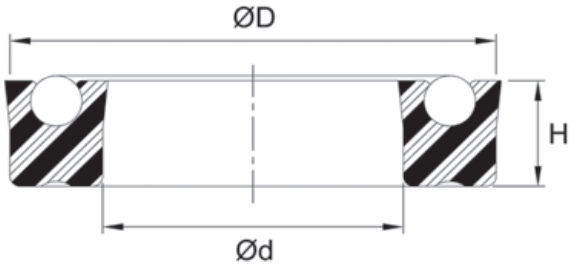
N				E			G		H	
Nominal Bore O.D. Range		Nominal Radial Cross Section	I	Axial Groove Length Standard		Deep	Piston O.D. Formula		Groove I.D. Formula	
5/16" - 6"	± .002 .000	1/8	.125	.138 ± .015 .000	.275	± .015 .000	Jmin - .001	± .000 .001	Jmin - 2 (I)	± .000 .002
9/16" - 6 11/16"	± .002 .000	3/16	.187	.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
6" - 21 3/4"	± .008 .000	7/8	.875	.963 ± .015 .000	1.375 1.513	± .015 .000	Jmin - .004	± .000 .001	Jmin - 2 (I)	± .000 .012
4" - 18"	± .009 .000	1	1.000	1.100 ± .015 .000	1.650	± .015 .000	Jmin - .004	± .000 .001	Jmin - 2 (I)	± .000 .011
F1		F2				F3	F4		F5	

Notes:
F_1 – The Nominal Bore 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".

Standard Loaded U-Cups





STD AU/NBR
Temp.: -40/230F [-40/110C]
Pressure: 5000 PSI [345 BAR]

P, 4651 = High Perf. Urethane
Temp.: -40/248F [-40/120C]
Pressure: 6000 PSI [414 BAR]

V = FPM
Temp.: -20/400F [-29/204C]
Pressure: 2000 PSI [138 BAR]

Ref.Number	Nominal Seal Dimensions			$	Ref.Number	Nominal Seal Dimensions			$
	d	D	H			d	D	H	
1/8" - Cross Section - 0.125"					**1/8" - Cross Section - 0.125"**				
12500062*	0.062	0.312	0.125	3.81	12501250	1.250	1.500	0.125	4.48
12500093*	0.093	0.343	0.125	3.81	12501250Q/V	1.250	1.500	0.125	17.89
12500125	0.125	0.375	0.125	3.81	12501312	1.312	1.562	0.125	5.07
12500140*	0.140	0.390	0.125	3.81	12501312Q*	1.312	1.562	0.125	5.45
12500187	0.187	0.437	0.125	3.81	12501375	1.375	1.625	0.125	4.80
12500250	0.250	0.500	0.125	3.81	12501375Q/V	1.375	1.625	0.125	17.89
12500250Q/V*	0.250	0.500	0.125	15.22	12501437*	1.437	1.687	0.125	5.80
12500250V/P	0.250	0.500	0.125	6.02	12501500	1.500	1.750	0.125	5.00
12500312	0.312	0.562	0.125	3.69	12501500N/P*	1.500	1.750	0.125	6.98
12500359*	0.359	0.609	0.125	3.74	12501500Q/V	1.500	1.750	0.125	19.20
12500375	0.375	0.625	0.125	3.81	12501562Q*	1.562	1.812	0.125	5.19
12500375N/P	0.375	0.625	0.125	6.02	12501625	1.625	1.875	0.125	5.34
12500375Q/V*	0.375	0.625	0.125	15.22	12501687*	1.687	1.937	0.125	5.60
12500437	0.437	0.687	0.125	4.32	12501750	1.750	2.000	0.125	5.33
12500500	0.500	0.750	0.125	3.81	12501750N/P	1.750	2.000	0.125	6.82
12500531*	0.531	0.781	0.125	4.57	12501750Q/V	1.750	2.000	0.125	21.51
12500562	0.562	0.812	0.125	4.07	12501875	1.875	2.125	0.125	5.70
12500625	0.625	0.875	0.125	3.90	12502000	2.000	2.250	0.125	5.84
12500625Q/V	0.625	0.875	0.125	15.22	12502125*	2.125	2.375	0.125	6.12
12500687	0.687	0.937	0.125	4.13	12502250	2.250	2.500	0.125	5.96
12500750	0.750	1.000	0.125	4.03	12502375	2.375	2.625	0.125	6.09
12500750Q/V	0.750	1.000	0.125	15.22	12502500	2.500	2.750	0.125	6.22
12500812*	0.813	1.063	0.125	4.19	12502625	2.625	2.875	0.125	7.60
12500875	0.875	1.125	0.125	4.19	12502750	2.750	3.000	0.125	6.66
12500875Q/V*	0.875	1.125	0.125	16.90	12502875	2.875	3.125	0.125	6.92
12500906Q*	0.906	1.156	0.125	6.88	12503000	3.000	3.250	0.125	7.31
12500937	0.937	1.187	0.125	4.31	12503125*	3.125	3.375	0.125	7.62
12501000	1.000	1.250	0.125	4.31	12503250	3.250	3.500	0.125	7.78
12501000Q/V	1.000	1.250	0.125	16.90	12503500	3.500	3.750	0.125	8.56
12501062	1.062	1.312	0.125	4.56	12503625*	3.625	3.875	0.125	7.66
12501125	1.125	1.375	0.125	4.59	12503750	3.750	4.000	0.125	9.42
12501125N/P*	1.125	1.375	0.125	5.72	12503875*	3.875	4.125	0.125	9.98
12501125Q/V*	1.125	1.375	0.125	21.12	12504000	4.000	4.250	0.125	10.42
12501187	1.187	1.437	0.125	4.73	12504250	4.250	4.500	0.125	11.43

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STD SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12504375*	4.375	4.625	0.125	12.97
12504500	4.500	4.750	0.125	16.20
12504750*	4.750	5.000	0.125	13.54
12504875*	4.875	5.125	0.125	13.08
12505000	5.000	5.250	0.125	16.06
12505750	5.750	6.000	0.125	19.32
12505750Q*	5.750	6.000	0.125	18.46
5/32" - Cross Section - 0.156"				
15600437	0.437	0.750	0.156	4.62
15600750	0.750	1.062	0.156	5.20
15600937	0.937	1.250	0.156	5.64
15601000	1.000	1.312	0.156	5.68
15601000Q/V	1.000	1.312	0.156	19.29
15601062	1.062	1.375	0.156	6.68
15601125	1.125	1.437	0.156	5.35
15601187	1.187	1.500	0.156	5.12
15601187Q/V	1.187	1.500	0.156	20.43
15601250	1.250	1.562	0.156	5.29
15601375	1.375	1.687	0.156	6.56
15601375Q/V	1.375	1.687	0.156	21.75
15601500	1.500	1.812	0.156	5.94
15602062*	2.062	2.375	0.156	5.73
11/64" - Cross Section - 0.171"				
17100562*	0.562	0.906	0.171	3.41
3/16" - Cross Section - 0.187"				
18700187	0.187	0.562	0.187	4.35
18700250	0.250	0.625	0.187	4.79
18700312	0.312	0.687	0.187	3.79
18700375	0.375	0.750	0.187	3.85
18700375Q/V*	0.375	0.750	0.187	14.53
18700437	0.437	0.812	0.187	4.14
18700500	0.500	0.875	0.187	4.05
18700500Q/V*	0.500	0.875	0.187	16.48
18700562	0.562	0.937	0.187	8.14
18700625	0.625	1.000	0.187	4.21
18700625N/P*	0.625	1.000	0.187	7.55

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18700656Q	0.656	1.031	0.187	4.70
18700687	0.687	1.062	0.187	4.35
18700750	0.750	1.125	0.187	4.34
18700812*	0.812	1.187	0.187	4.71
18700875	0.875	1.250	0.187	4.70
18700875N/4651	0.875	1.250	0.187	11.29
18700937	0.937	1.312	0.187	5.02
18701000	1.000	1.375	0.187	4.76
18701000N/P	1.000	1.375	0.187	6.11
18701000Q/V*	1.000	1.375	0.187	18.39
18701062	1.062	1.437	0.187	5.01
18701062/V*	1.062	1.437	0.187	21.35
18701125	1.125	1.500	0.187	5.00
18701125Q/V	1.125	1.500	0.187	20.18
18701187	1.187	1.562	0.187	5.18
18701250	1.250	1.625	0.187	5.57
18701312	1.312	1.687	0.187	5.71
18701375	1.375	1.750	0.187	5.41
18701375N/P*	1.375	1.750	0.187	7.06
18701375Q/V	1.375	1.750	0.187	21.43
18701437	1.437	1.812	0.187	5.84
18701500	1.500	1.875	0.187	5.55
18701500N/P*	1.500	1.875	0.187	7.06
18701562*	1.562	1.937	0.187	6.82
18701625	1.625	2.000	0.187	5.78
18701625N/P	1.625	2.000	0.187	7.53
18701625Q/V	1.625	2.000	0.187	22.15
18701687	1.687	2.062	0.187	6.26
18701750	1.750	2.125	0.187	5.91
18701750N/P	1.750	2.125	0.187	7.60
18701750Q/V	1.750	2.125	0.187	22.58
18701812	1.812	2.187	0.187	7.21
18701875	1.875	2.250	0.187	6.15
18701937	1.937	2.312	0.187	7.14
18702000	2.000	2.375	0.187	7.74
18702000N/4651	2.000	2.375	0.187	15.05
18702000Q/V	2.000	2.375	0.187	23.54
18702062*	2.062	2.437	0.187	6.75
18702125	2.125	2.500	0.187	6.34
18702125N/P	2.125	2.500	0.187	10.03
18702125Q/V	2.125	2.500	0.187	23.23
18702250	2.250	2.625	0.187	6.55
18702250Q/V	2.250	2.625	0.187	25.95
18702375	2.375	2.750	0.187	7.42
18702375Q/V	2.375	2.750	0.187	26.55

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STD SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18702500	2.500	2.875	0.187	6.81
18702500N/P	2.500	2.875	0.187	8.55
18702500Q/V	2.500	2.875	0.187	26.86
18702625	2.625	3.000	0.187	6.97
18702750	2.750	3.125	0.187	12.62
18702750N/P	2.750	3.125	0.187	10.03
18702750Q/V	2.750	3.125	0.187	27.85
18702875	2.875	3.250	0.187	7.51
18702875Q/V	2.875	3.250	0.187	27.62
18703000	3.000	3.375	0.187	7.72
18703000N/P	3.000	3.375	0.187	9.96
18703000Q/V*	3.000	3.375	0.187	31.17
18703125	3.125	3.500	0.187	8.46
18703250	3.250	3.625	0.187	9.09
18703375	3.375	3.750	0.187	9.63
18703375N/P	3.375	3.750	0.187	14.58
18703500	3.500	3.875	0.187	10.06
18703625	3.625	4.000	0.187	10.14
18703625N/P	3.625	4.000	0.187	12.94
18703750	3.750	4.125	0.187	11.08
18703875	3.875	4.250	0.187	11.33
18704000	4.000	4.375	0.187	11.76
18704000N/P*	4.000	4.375	0.187	17.80
18704000Q/V*	4.000	4.375	0.187	51.75
18704125	4.125	4.500	0.187	12.78
18704250*	4.250	4.625	0.187	13.04
18704375	4.375	4.750	0.187	13.28
18704500	4.500	4.875	0.187	13.61
18704625	4.625	5.000	0.187	13.98
18704750	4.750	5.125	0.187	14.88
18704875	4.875	5.250	0.187	16.16
18705000	5.000	5.375	0.187	18.43
18705250	5.250	5.625	0.187	17.49
18705687*	5.687	6.062	0.187	20.86
18705875	5.875	6.250	0.187	19.96
18706000*	6.000	6.375	0.187	19.42
18706312*	6.312	6.687	0.187	24.89
7/32" - Cross Section - 0.218"				
21800312Q	0.312	0.750	0.218	5.21
21800437	0.437	0.875	0.218	5.95
21800562	0.562	1.000	0.218	5.97
21800750	0.750	1.187	0.218	6.07

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
7/32" - Cross Section - 0.218"				
21800937	0.937	1.375	0.218	6.20
21801750	1.750	2.187	0.218	8.32
21802062	2.062	2.500	0.218	9.82
21802500	2.500	2.937	0.218	11.09
21802562Q*	2.562	3.000	0.218	10.02
21802812	2.812	3.250	0.218	11.81
21803000	3.000	3.437	0.218	11.40
21803062	3.062	3.500	0.218	13.27
21803437*	3.437	3.875	0.218	13.44
1/4" - Cross Section - 0.250"				
25000250	0.250	0.750	0.250	5.43
25000312	0.312	0.812	0.250	5.32
25000375	0.375	0.875	0.250	5.20
25000437Q	0.437	0.937	0.250	5.33
25000500	0.500	1.000	0.250	5.31
25000562*	0.562	1.062	0.250	5.43
25000625	0.625	1.125	0.250	5.31
25000625Q/V*	0.625	1.125	0.250	19.54
25000687	0.687	1.187	0.250	7.19
25000750	0.750	1.250	0.250	5.02
25000812	0.812	1.312	0.250	5.17
25000875	0.875	1.375	0.250	5.24
25000875N/P*	0.875	1.375	0.250	6.59
25000937	0.937	1.437	0.250	7.35
25001000	1.000	1.500	0.250	5.19
25001000Q/V*	1.000	1.500	0.250	19.30
25001000V/P*	1.000	1.500	0.250	9.49
25001062	1.062	1.562	0.250	5.70
25001093*	1.093	1.593	0.250	6.44
25001125	1.125	1.625	0.250	5.62
25001187	1.187	1.687	0.250	5.68
25001250	1.250	1.750	0.250	5.51
25001312*	1.312	1.812	0.250	6.11
25001375	1.375	1.875	0.250	6.23
25001437	1.437	1.937	0.250	6.52
25001500	1.500	2.000	0.250	6.27
25001500Q/V*	1.500	2.000	0.250	22.92
25001625	1.625	2.125	0.250	6.96
25001750	1.750	2.250	0.250	7.28
25001750Q/V	1.750	2.250	0.250	25.62
25001875	1.875	2.375	0.250	7.72
25002000	2.000	2.500	0.250	7.75

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STD SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25002000N/P	2.000	2.500	0.250	9.96
25002000Q/V	2.000	2.500	0.250	28.43
25002125	2.125	2.625	0.250	8.35
25002250	2.250	2.750	0.250	8.73
25002250Q/V*	2.250	2.750	0.250	34.46
25002375	2.375	2.875	0.250	9.42
25002500	2.500	3.000	0.250	9.37
25002500N/P	2.500	3.000	0.250	11.99
25002500Q/V	2.500	3.000	0.250	31.90
25002625	2.625	3.125	0.250	10.25
25002750	2.750	3.250	0.250	10.17
25002750N/P	2.750	3.250	0.250	14.11
25002750Q/V	2.750	3.250	0.250	37.17
25002875	2.875	3.375	0.250	10.76
25003000	3.000	3.500	0.250	10.91
25003000/4615	3.000	3.500	0.250	15.38
25003000N/P	3.000	3.500	0.250	14.03
25003000Q/V	3.000	3.500	0.250	40.05
25003125	3.125	3.625	0.250	12.20
25003250	3.250	3.750	0.250	12.28
25003375	3.375	3.875	0.250	12.35
25003500	3.500	4.000	0.250	12.53
25003500N/P	3.500	4.000	0.250	16.15
25003500Q	3.500	4.000	0.250	13.14
25003500Q/V	3.500	4.000	0.250	48.19
25003625	3.625	4.125	0.250	13.18
25003750	3.750	4.250	0.250	14.54
25003850*	3.850	4.350	0.250	13.71
25003875	3.875	4.375	0.250	13.98
25004000	4.000	4.500	0.250	14.08
25004000N/P	4.000	4.500	0.250	18.03
25004000Q/V	4.000	4.500	0.250	54.23
25004125	4.125	4.625	0.250	15.59
25004250	4.250	4.750	0.250	14.90
25004250N/P*	4.250	4.750	0.250	19.13
25004375	4.375	4.875	0.250	19.05
25004500	4.500	5.000	0.250	15.75
25004500N/P	4.500	5.000	0.250	20.23
25004500Q/V	4.500	5.000	0.250	57.55
25004625	4.625	5.125	0.250	16.37
25004750	4.750	5.250	0.250	16.82
25004875	4.875	5.375	0.250	17.17
25005000	5.000	5.500	0.250	17.31
25005000N/P	5.000	5.500	0.250	22.19
25005125	5.125	5.625	0.250	18.95

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25005250	5.250	5.750	0.250	17.86
25005375*	5.375	5.875	0.250	19.86
25005500	5.500	6.000	0.250	18.91
25005500N/P	5.500	6.000	0.250	36.53
25005500Q *	5.500	6.000	0.250	21.07
25005500Q/V	5.500	6.000	0.250	63.29
25005625	5.625	6.125	0.250	21.23
25005750	5.750	6.250	0.250	21.95
25005750N/P	5.750	6.250	0.250	27.67
25005875*	5.875	6.375	0.250	22.26
25006000	6.000	6.500	0.250	22.74
25006000N/P*	6.000	6.500	0.250	51.74
25006250	6.250	6.750	0.250	22.76
25006500	6.500	7.000	0.250	22.74
25006500V/P	6.500	7.000	0.250	31.36
25006750	6.750	7.250	0.250	22.86
25007000	7.000	7.500	0.250	23.67
25007000N/4651*	7.000	7.500	0.250	55.27
25007125*	7.125	7.625	0.250	23.97
25007250	7.250	7.750	0.250	24.42
25007437*	7.437	7.937	0.250	25.28
25007500	7.500	8.000	0.250	25.77
25007500N/P	7.500	8.000	0.250	31.83
25007750	7.750	8.250	0.250	26.13
25007750Q*	7.750	8.250	0.250	27.13
25007812*	7.812	8.312	0.250	26.95
25008000	8.000	8.500	0.250	26.97
25008000N/P	8.000	8.500	0.250	34.02
25008250	8.250	8.750	0.250	27.50
25008500	8.500	9.000	0.250	28.09
25008750	8.750	9.250	0.250	32.44
25009000	9.000	9.500	0.250	32.08
25009000N/4651	9.000	9.500	0.250	69.46
25009250	9.250	9.750	0.250	34.41
25009250N/4651*	9.250	9.750	0.250	71.50
25009500	9.500	10.000	0.250	32.73
25009750*	9.750	10.250	0.250	37.07
25010000	10.000	10.500	0.250	40.11
25010000N/4651	10.000	10.500	0.250	81.06
25010250*	10.250	10.750	0.250	40.84
25010250N/4651*	10.250	10.750	0.250	80.67
25010500	10.500	11.000	0.250	40.93
25010500N/4651*	10.500	11.000	0.250	87.41
25010750	10.750	11.250	0.250	41.04
25010875*	10.875	11.375	0.250	44.76

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STD SERIES - LOADED U-CUPS

1/4" - Cross Section - 0.250"

Ref.Number	Nominal Seal Dimensions d	D	H	$
25011000	11.000	11.500	0.250	46.64
25011500	11.500	12.000	0.250	49.75
25011750	11.750	12.250	0.250	51.20
25012000	12.000	12.500	0.250	52.57
25012500Q	12.500	13.000	0.250	55.97
25013000	13.000	13.500	0.250	62.07
25013500	13.500	14.000	0.250	59.98
25014000*	14.000	14.500	0.250	67.66
25014125*	14.125	14.625	0.250	63.61
25014250	14.250	14.750	0.250	71.11
25014500*	14.500	15.000	0.250	72.10
25019000*	19.000	19.500	0.250	93.64
25023000*	23.000	23.500	0.250	207.41
25023500*	23.500	24.000	0.250	198.73
25024000*	24.000	24.500	0.250	204.84
25024500*	24.500	25.000	0.250	207.92

9/32" - Cross Section - 0.281"

28100187*	0.187	0.750	0.281	7.88
28100687*	0.687	1.250	0.281	7.88
28101000*	1.000	1.562	0.281	12.31
28102312*	2.312	2.875	0.281	13.29
28102562*	2.562	3.125	0.281	15.17
28104437	4.437	5.000	0.281	25.04
28105000*	5.000	5.562	0.281	27.48
28105437	5.437	6.000	0.281	29.56
28106437	6.437	7.000	0.281	30.58
28108500*	8.500	9.062	0.281	40.84

5/16" - Cross Section - 0.312"

31200250*	0.250	0.875	0.312	5.53
31200375*	0.375	1.000	0.312	5.96
31200437*	0.437	1.062	0.312	5.87
31200500*	0.500	1.125	0.312	6.08
31200625Q*	0.625	1.250	0.312	5.93
31200687*	0.687	1.312	0.312	7.15
31200750	0.750	1.375	0.312	6.37
31200812*	0.812	1.437	0.312	7.27
31200875	0.875	1.500	0.312	6.30
31201000	1.000	1.625	0.312	6.28
31201062*	1.062	1.687	0.312	7.50

5/16" - Cross Section - 0.312"

Ref.Number	Nominal Seal Dimensions d	D	H	$
31201125	1.125	1.750	0.312	6.34
31201187	1.187	1.812	0.312	6.50
31201250	1.250	1.875	0.312	6.41
31201312	1.312	1.937	0.312	8.02
31201375	1.375	2.000	0.312	7.18
31201375N/P	1.375	2.000	0.312	8.86
31201375Q/V*	1.375	2.000	0.312	27.85
31201500	1.500	2.125	0.312	7.31
31201625	1.625	2.250	0.312	8.18
31201687*	1.687	2.312	0.312	8.60
31201750	1.750	2.375	0.312	8.45
31201750N/P	1.750	2.375	0.312	10.66
31201875	1.875	2.500	0.312	8.88
31201937	1.937	2.562	0.312	9.31
31202000	2.000	2.625	0.312	9.71
31202125	2.125	2.750	0.312	9.88
31202250	2.250	2.875	0.312	10.22
31202312*	2.312	2.937	0.312	12.46
31202375	2.375	3.000	0.312	10.75
31202375Q/V	2.375	3.000	0.312	39.29
31202500	2.500	3.125	0.312	11.41
31202562Q*	2.562	3.187	0.312	11.49
31202625	2.625	3.250	0.312	11.84
31202750	2.750	3.375	0.312	12.42
31202875	2.875	3.500	0.312	12.78
31203000	3.000	3.625	0.312	13.34
31203125	3.125	3.750	0.312	13.53
31203250	3.250	3.875	0.312	13.84
31203375	3.375	4.000	0.312	14.84
31203375/V	3.375	4.000	0.312	96.41
31203500	3.500	4.125	0.312	15.41
31203625	3.625	4.250	0.312	15.86
31203625Q/V*	3.625	4.250	0.312	61.74
31203750	3.750	4.375	0.312	16.37
31203875	3.875	4.500	0.312	16.94
31204000	4.000	4.625	0.312	17.41
31204125	4.125	4.750	0.312	17.82
31204250*	4.250	4.875	0.312	18.46
31204375	4.375	5.000	0.312	19.13
31204375N/P	4.375	5.000	0.312	24.15
31204500	4.500	5.125	0.312	19.61
31204750	4.750	5.375	0.312	20.18
31204875	4.875	5.500	0.312	21.26
31205000	5.000	5.625	0.312	21.52
31205125*	5.125	5.750	0.312	21.93

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

STD SERIES - LOADED U-CUPS

5/16" - Cross Section - 0.312"

Ref.Number	Nominal Seal Dimensions d	D	H	$
31205250	5.250	5.875	0.312	22.44
31205375	5.375	6.000	0.312	22.89
31205375N/P	5.375	6.000	0.312	28.69
31205375Q/V	5.375	6.000	0.312	82.40
31205500	5.500	6.125	0.312	23.41
31205625*	5.625	6.250	0.312	29.70
31205750	5.750	6.375	0.312	24.02
31205875	5.875	6.500	0.312	24.98
31206000	6.000	6.625	0.312	25.33
31206125*	6.125	6.750	0.312	25.51
31206250	6.250	6.875	0.312	25.73
31206375	6.375	7.000	0.312	26.24
31206375Q/V*	6.375	7.000	0.312	103.68
31206500*	6.500	7.125	0.312	26.73
31206625	6.625	7.250	0.312	27.27
31206750*	6.750	7.375	0.312	27.64
31207000	7.000	7.625	0.312	28.83
31207250	7.250	7.875	0.312	29.54
31207312*	7.312	7.937	0.312	29.74
31207375	7.375	8.000	0.312	29.97
31207375N/P	7.375	8.000	0.312	37.79
31207375Q/V*	7.375	8.000	0.312	107.77
31207500	7.500	8.125	0.312	30.48
31207500N/P*	7.500	8.125	0.312	38.18
31207750	7.750	8.375	0.312	31.08
31208000	8.000	8.625	0.312	31.34
31208000N/P*	8.000	8.625	0.312	39.28
31208250*	8.250	8.875	0.312	32.31
31208500	8.500	9.125	0.312	33.49
31208875*	8.875	9.500	0.312	41.80
31209625*	9.625	10.250	0.312	45.05
31210125*	10.125	10.750	0.312	51.76
31212000*	12.000	12.625	0.312	60.32
31212750*	12.750	13.375	0.312	110.07
31213375*	13.375	14.000	0.312	73.76
31214250*	14.250	14.875	0.312	79.53
31215875*	15.875	16.500	0.312	82.27

11/32" - Cross Section - 0.343"

Ref.Number	Nominal Seal Dimensions d	D	H	$
34300750*	0.750	1.437	0.343	11.77
34301062*	1.062	1.750	0.343	12.51
34301312*	1.312	2.000	0.343	16.63
34301812*	1.812	2.500	0.343	17.53

11/32" - Cross Section - 0.343"

Ref.Number	Nominal Seal Dimensions d	D	H	$
34302312*	2.312	3.000	0.343	25.44
34302500*	2.500	3.187	0.343	23.13
34302687*	2.687	3.375	0.343	26.64
34309312*	9.312	10.000	0.343	57.71

3/8" - Cross Section - 0.375"

Ref.Number	Nominal Seal Dimensions d	D	H	$
37500500*	0.500	1.250	0.375	7.47
37500625*	0.625	1.375	0.375	9.12
37500750*	0.750	1.500	0.375	7.93
37500812Q*	0.812	1.562	0.375	8.19
37500875	0.875	1.625	0.375	8.43
37500937*	0.937	1.687	0.375	8.20
37501000	1.000	1.750	0.375	8.24
37501125	1.125	1.875	0.375	9.01
37501250	1.250	2.000	0.375	9.09
37501312	1.312	2.062	0.375	10.84
37501375	1.375	2.125	0.375	9.66
37501437*	1.437	2.187	0.375	11.42
37501500	1.500	2.250	0.375	10.22
37501562	1.562	2.312	0.375	11.07
37501625*	1.625	2.375	0.375	11.25
37501750	1.750	2.500	0.375	11.73
37501750N/4651*	1.750	2.500	0.375	28.14
37501750N/F	1.750	2.500	0.375	20.52
37501875	1.875	2.625	0.375	12.75
37502000	2.000	2.750	0.375	12.80
37502062*	2.062	2.812	0.375	13.25
37502125	2.125	2.875	0.375	13.58
37502250	2.250	3.000	0.375	14.33
37502375	2.375	3.125	0.375	15.26
375024370	2.437	3.187	0.375	18.88
37502500	2.500	3.250	0.375	15.48
37502625	2.625	3.375	0.375	16.36
37502687*	2.687	3.437	0.375	19.21
37502750	2.750	3.500	0.375	17.02
37502750N/4651*	2.750	3.500	0.375	48.21
37502750Q/V	2.750	3.500	0.375	66.86
37502812	2.812	3.562	0.375	21.18
37502875	2.875	3.625	0.375	20.00
37502937*	2.937	3.687	0.375	21.18
37503000	3.000	3.750	0.375	18.62
37503125	3.125	3.875	0.375	21.98
37503125Q	3.125	3.875	0.375	22.84

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STD SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37503250	3.250	4.000	0.375	19.69
37503250Q/V*	3.250	4.000	0.375	70.70
37503375*	3.375	4.125	0.375	20.47
37503500	3.500	4.250	0.375	21.18
37503625	3.625	4.375	0.375	22.36
37503750	3.750	4.500	0.375	22.28
37503843*	3.843	4.593	0.375	19.25
37503875*	3.875	4.625	0.375	23.03
37504000	4.000	4.750	0.375	23.81
37504062	4.062	4.812	0.375	20.46
37504125*	4.125	4.875	0.375	24.42
37504250	4.250	5.000	0.375	25.14
37504250N/P	4.250	5.000	0.375	31.75
37504375	4.375	5.125	0.375	25.84
37504375Q*	4.375	5.125	0.375	27.22
37504500	4.500	5.250	0.375	26.44
37504625*	4.625	5.375	0.375	28.02
37504750	4.750	5.500	0.375	27.78
37504875*	4.875	5.625	0.375	29.66
37505000	5.000	5.750	0.375	29.14
37505125	5.125	5.875	0.375	27.00
37505250	5.250	6.000	0.375	30.56
37505250N/P	5.250	6.000	0.375	43.98
37505250Q/V	5.250	6.000	0.375	113.57
37505375	5.375	6.125	0.375	31.37
37505500	5.500	6.250	0.375	31.72
37505625	5.625	6.375	0.375	32.45
37505750	5.750	6.500	0.375	33.35
37505750N/P	5.750	6.500	0.375	41.71
37505875*	5.875	6.625	0.375	33.98
37506000	6.000	6.750	0.375	34.38
37506000N/P*	6.000	6.750	0.375	43.04
37506250	6.250	7.000	0.375	34.78
37506250N/P	6.250	7.000	0.375	43.90
37506250Q/V	6.250	7.000	0.375	136.30
37506375*	6.375	7.125	0.375	37.35
37506500	6.500	7.250	0.375	35.94
37506750	6.750	7.500	0.375	37.09
37507000	7.000	7.750	0.375	38.13
37507000N/P	7.000	7.750	0.375	48.14
37507000Q *	7.000	7.750	0.375	39.10
37507000Q/F*	7.000	7.750	0.375	68.83
37507250	7.250	8.000	0.375	39.16
37507250N/P	7.250	8.000	0.375	49.39
37507250Q/V	7.250	8.000	0.375	140.81

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37507500*	7.500	8.250	0.375	40.37
37507500N/4651*	7.500	8.250	0.375	96.82
37507625*	7.625	8.375	0.375	40.82
37507750	7.750	8.500	0.375	41.76
37507750N/P*	7.750	8.500	0.375	59.89
37508000	8.000	8.750	0.375	42.51
37508000N/P*	8.000	8.750	0.375	58.33
37508250	8.250	9.000	0.375	43.72
37508250N/4651*	8.250	9.000	0.375	104.89
37508500	8.500	9.250	0.375	49.09
37508500Q	8.500	9.250	0.375	57.92
37508562*	8.562	9.312	0.375	52.19
37508625*	8.625	9.375	0.375	52.78
37508625N/4651*	8.625	9.375	0.375	109.13
37508687*	8.687	9.375	0.375	52.88
37508750*	8.750	9.500	0.375	53.40
37509000	9.000	9.750	0.375	53.08
37509250	9.250	10.000	0.375	57.55
37509250N/4651	9.250	10.000	0.375	114.77
37509250Q/V*	9.250	10.000	0.375	173.62
37509500	9.500	10.250	0.375	60.74
37509750	9.750	10.500	0.375	62.20
37509750N/4651*	9.750	10.500	0.375	121.83
37509875*	9.875	10.625	0.375	64.06
37510000	10.000	10.750	0.375	65.25
37510000/V*	10.000	10.750	0.375	293.22
37510000N/4651	10.000	10.750	0.375	146.84
37510250	10.250	11.000	0.375	66.17
37510500	10.500	11.250	0.375	67.12
37510750*	10.750	11.500	0.375	68.57
37510750N/4651*	10.750	11.500	0.375	133.12
37511000Q	11.000	11.750	0.375	71.24
37511250	11.250	12.000	0.375	76.38
37511250N/4651	11.250	12.000	0.375	139.00
37511250Q/V*	11.250	12.000	0.375	317.41
37511500	11.500	12.250	0.375	68.86
37511750*	11.750	12.500	0.375	70.22
37512000	12.000	12.750	0.375	70.68
37512250	12.250	13.000	0.375	90.17
37512500*	12.500	13.250	0.375	91.68
37512750	12.750	13.500	0.375	93.30
37513000	13.000	13.750	0.375	95.61
37513250	13.250	14.000	0.375	95.80
37513250N/4651*	13.250	14.000	0.375	163.93
37513500*	13.500	14.250	0.375	106.34

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STD SERIES - LOADED U-CUPS

3/8" - Cross Section - 0.375"

Ref.Number	Nominal Seal Dimensions d	D	H	$
37513750	13.750	14.500	0.375	111.17
37514000*	14.000	14.750	0.375	114.04
37514500*	14.500	15.250	0.375	118.74
37514750*	14.750	15.500	0.375	123.17
37515000	15.000	15.750	0.375	129.03
37515500*	15.500	16.250	0.375	132.42
37515750*	15.750	16.500	0.375	134.68
37516000*	16.000	16.750	0.375	135.52
37516250*	16.250	17.000	0.375	139.49
37516500	16.500	17.250	0.375	144.49
37517250Q	17.250	18.000	0.375	143.74
37519500*	19.500	20.250	0.375	156.09
37523000*	23.000	23.750	0.375	294.04
37527250*	27.250	28.000	0.375	312.26
37531750*	31.750	32.500	0.375	543.55
37538500*	38.500	39.250	0.375	655.96

13/32" - Cross Section - 0.406"

40601187*	1.187	2.000	0.406	7.56
40601250*	1.250	2.062	0.406	7.84
40601437*	1.437	2.250	0.406	8.71
40601687*	1.687	2.500	0.406	9.97
40601750*	1.750	2.562	0.406	14.64
40602187*	2.187	3.000	0.406	12.35
40602687*	2.687	3.500	0.406	15.37
40607187*	7.187	8.000	0.406	49.69
40613187*	13.187	14.000	0.406	87.68

7/16" - Cross Section - 0.437"

43701000*	1.000	1.875	0.437	9.82
43701250*	1.250	2.125	0.437	11.31
43701375*	1.375	2.250	0.437	12.03
43701437*	1.437	2.312	0.437	12.41
43701500*	1.500	2.375	0.437	14.16
43701750	1.750	2.625	0.437	14.69
43701875*	1.875	2.750	0.437	15.32
43702000*	2.000	2.875	0.437	22.04
43702125N/4651*	2.125	3.000	0.437	31.52
43702125Q*	2.125	3.000	0.437	19.16
43702500	2.500	3.375	0.437	19.48
43702875*	2.875	3.750	0.437	21.76

7/16" - Cross Section - 0.437"

Ref.Number	Nominal Seal Dimensions d	D	H	$
43703000*	3.000	3.875	0.437	21.93
43703125Q	3.125	4.000	0.437	19.86
43703250*	3.250	4.125	0.437	25.20
43703625*	3.625	4.500	0.437	25.75
43704000	4.000	4.875	0.437	27.51
43704125Q	4.125	5.000	0.437	33.52
43704500*	4.500	5.375	0.437	38.01
43704750	4.750	5.625	0.437	41.29
43705125Q	5.125	6.000	0.437	44.00
43705250Q*	5.250	6.125	0.437	46.21
43705500*	5.500	6.375	0.437	51.90

1/2" - Cross Section - 0.500"

50000625*	0.625	1.625	0.500	8.68
50000750*	0.750	1.750	0.500	8.91
50001000*	1.000	2.000	0.500	12.95
50001125*	1.125	2.125	0.500	14.03
50001187*	1.187	2.187	0.500	14.98
50001250*	1.250	2.250	0.500	15.03
50001312*	1.312	2.312	0.500	15.22
50001375	1.375	2.375	0.500	15.63
50001500	1.500	2.500	0.500	16.51
50001750	1.750	2.750	0.500	17.33
50001875*	1.875	2.875	0.500	18.18
50002000	2.000	3.000	0.500	18.09
50002125*	2.125	3.125	0.500	19.02
50002250	2.250	3.250	0.500	20.57
50002375*	2.375	3.375	0.500	22.85
50002500	2.500	3.500	0.500	21.76
50002500N/4651*	2.500	3.500	0.500	60.13
50002750	2.750	3.750	0.500	23.41
50002875*	2.875	3.875	0.500	23.75
50003000	3.000	4.000	0.500	25.34
50003000N/P*	3.000	4.000	0.500	60.84
50003250	3.250	4.250	0.500	30.10
50003375*	3.375	4.375	0.500	31.15
50003500	3.500	4.500	0.500	32.27
50003500Q	3.500	4.500	0.500	30.75
50003625*	3.625	4.625	0.500	32.62
50003750	3.750	4.750	0.500	32.00
50003750/V*	3.750	4.750	0.500	358.61
50004000	4.000	5.000	0.500	32.47
50004125	4.125	5.125	0.500	36.22

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STD SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50004250	4.250	5.250	0.500	34.32
50004312*	4.312	5.312	0.500	35.02
50004375	4.375	5.375	0.500	37.96
50004500	4.500	5.500	0.500	40.39
50004500N/4651*	4.500	5.500	0.500	86.55
50004750	4.750	5.750	0.500	39.72
50005000	5.000	6.000	0.500	39.67
50005000N/P	5.000	6.000	0.500	55.90
50005125*	5.125	6.125	0.500	40.45
50005250	5.250	6.250	0.500	41.16
50005375*	5.375	6.375	0.500	42.27
50005437	5.437	6.437	0.500	45.83
50005500	5.500	6.500	0.500	46.01
50005750*	5.750	6.750	0.500	46.23
50006000	6.000	7.000	0.500	46.43
50006250*	6.250	7.250	0.500	46.68
50006375*	6.375	7.375	0.500	46.72
50006500	6.500	7.500	0.500	46.85
50006750Q	6.750	7.750	0.500	51.78
50007000	7.000	8.000	0.500	52.43
50007000N/P	7.000	8.000	0.500	61.54
50007000Q/V	7.000	8.000	0.500	186.34
50007250	7.250	8.250	0.500	52.80
50007375*	7.375	8.375	0.500	54.19
50007500*	7.500	8.500	0.500	56.09
50007750*	7.750	8.750	0.500	57.42
50008000	8.000	9.000	0.500	58.98
50008000Q/V*	8.000	9.000	0.500	207.83
50008125*	8.125	9.125	0.500	58.82
50008250*	8.250	9.250	0.500	65.23
50008500	8.500	9.500	0.500	68.55
50008750Q*	8.750	9.750	0.500	70.31
50009000	9.000	10.000	0.500	70.72
50009500	9.500	10.500	0.500	71.81
50009750*	9.750	10.750	0.500	72.23
50010000	10.000	11.000	0.500	81.87
50010000/V*	10.000	11.000	0.500	664.48
50010000N/4651*	10.000	11.000	0.500	161.50
50010000Q	10.000	11.000	0.500	81.87
50010500	10.500	11.500	0.500	76.67
50010750*	10.750	11.750	0.500	80.22
50010875*	10.875	11.875	0.500	82.09
50011000	11.000	12.000	0.500	84.11
50011000N/4651	11.000	12.000	0.500	172.71
50011250*	11.250	12.250	0.500	86.79

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50011500Q	11.500	12.500	0.500	87.91
50011750*	11.750	12.750	0.500	90.47
50012000*	12.000	13.000	0.500	92.81
50012750*	12.750	13.750	0.500	98.61
50013000	13.000	14.000	0.500	101.38
50013000N/4651	13.000	14.000	0.500	183.45
50013000Q*	13.000	14.000	0.500	99.36
50013000Q/V	13.000	14.000	0.500	383.60
50013250Q	13.250	14.250	0.500	103.70
50014000N/4651	14.000	15.000	0.500	275.80
50014000Q*	14.000	15.000	0.500	109.83
50014500*	14.500	15.500	0.500	115.06
50015000*	15.000	16.000	0.500	128.14
50015000Q	15.000	16.000	0.500	128.15
50015500Q*	15.500	16.500	0.500	151.15
50015750*	15.750	16.750	0.500	162.46
50016000	16.000	17.000	0.500	170.93
50017000	17.000	18.000	0.500	174.98
50017500*	17.500	18.500	0.500	179.84
50018000*	18.000	19.000	0.500	248.46
50019000Q	19.000	20.000	0.500	260.87
50019500*	19.500	20.500	0.500	296.94
50020000*	20.000	21.000	0.500	301.50
50021000*	21.000	22.000	0.500	325.80
50021875*	21.875	22.875	0.500	331.84
50023000*	23.000	24.000	0.500	451.39
50023000N/4651*	23.000	24.000	0.500	803.72
50023500*	23.500	24.500	0.500	487.08
50025000Q*	25.000	26.000	0.500	504.07
50026000*	26.000	27.000	0.500	523.24
50026500*	26.500	27.500	0.500	532.87
50027000*	27.000	28.000	0.500	549.08
50028000*	28.000	29.000	0.500	559.64
50028500*	28.500	29.500	0.500	600.47
50031000*	31.000	32.000	0.500	617.66
50032000*	32.000	33.000	0.500	823.29
50036000*	36.000	37.000	0.500	847.45
50036750*	36.750	37.750	0.500	855.01
50040000*	40.000	41.000	0.500	867.16
50041000*	41.000	42.000	0.500	883.70
17/32" - Cross Section - 0.531"				
53101625*	1.625	2.687	0.531	24.69

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

STD SERIES - LOADED U-CUPS

9/16" - Cross Section - 0.562"

Ref.Number	Nominal Seal Dimensions d	D	H	$
56202500*	2.500	3.625	0.562	32.02
56202625*	2.625	3.750	0.562	41.65
56204125*	4.125	5.250	0.562	49.14
56205500*	5.500	6.625	0.562	52.08
56206750*	6.750	7.875	0.562	59.50

5/8" - Cross Section - 0.625"

Ref.Number	Nominal Seal Dimensions d	D	H	$
62501250*	1.250	2.500	0.625	17.69
62501750*	1.750	3.000	0.625	25.04
62501812*	1.812	3.062	0.625	23.95
62502000*	2.000	3.250	0.625	25.35
62502250*	2.250	3.500	0.625	27.59
62502375*	2.375	3.625	0.625	28.52
62502500*	2.500	3.750	0.625	29.79
62502750	2.750	4.000	0.625	28.32
62502812*	2.812	3.937	0.625	29.11
62503000*	3.000	4.250	0.625	29.25
62503250	3.250	4.500	0.625	32.74
62503375*	3.375	4.625	0.625	37.10
62503500	3.500	4.750	0.625	38.90
62503750	3.750	5.000	0.625	40.02
62503875*	3.875	5.000	0.625	40.45
62504000*	4.000	5.250	0.625	43.39
62504250	4.250	5.500	0.625	44.96
62504500	4.500	5.750	0.625	46.71
62504625*	4.625	5.750	0.625	48.01
62504750	4.750	6.000	0.625	50.20
62505000	5.000	6.250	0.625	51.43
62505250*	5.250	6.500	0.625	51.75
62505500*	5.500	6.750	0.625	59.69
62505750	5.750	7.000	0.625	60.29
62505750Q/V*	5.750	7.000	0.625	250.31
62506000*	6.000	7.250	0.625	61.11
62506250*	6.250	7.500	0.625	62.28
62506500*	6.500	7.750	0.625	68.55
62506625*	6.625	7.875	0.625	72.01
62506750	6.750	8.000	0.625	72.95
62506812*	6.812	7.937	0.625	73.72
62506875*	6.875	8.125	0.625	74.88
62507000	7.000	8.250	0.625	75.32
62507250*	7.250	8.500	0.625	81.13
62507750*	7.750	9.000	0.625	82.55
62508000*	8.000	9.250	0.625	85.08

5/8" - Cross Section - 0.625"

Ref.Number	Nominal Seal Dimensions d	D	H	$
62508187*	8.187	9.437	0.625	85.40
62508250*	8.250	9.500	0.625	87.51
62508375*	8.375	9.625	0.625	89.59
62508500*	8.500	9.750	0.625	90.16
62508625*	8.625	9.875	0.625	91.09
62508750	8.750	10.000	0.625	92.19
62509000*	9.000	10.250	0.625	95.63
62509250Q*	9.250	10.500	0.625	97.04
62509500*	9.500	10.750	0.625	97.69
62509750	9.750	11.000	0.625	101.00
62510000Q*	10.000	11.250	0.625	101.71
62510500*	10.500	11.750	0.625	101.85
62510750	10.750	12.000	0.625	102.76
62511000*	11.000	12.250	0.625	103.34
62512000*	12.000	13.250	0.625	103.59
62512250*	12.250	13.500	0.625	104.45
62512750*	12.750	14.000	0.625	120.81
62512750Q/V*	12.750	14.000	0.625	999.23
62513000Q*	13.000	14.250	0.625	184.63
62514750	14.750	16.000	0.625	148.07
62515000*	15.000	16.250	0.625	151.55
62516750*	16.750	18.000	0.625	167.90
62518750	18.750	20.000	0.625	270.10
62519250*	19.250	20.500	0.625	189.71
62520000*	20.000	21.250	0.625	192.61
62524000*	24.000	25.250	0.625	392.47
62524750Q*	24.750	26.000	0.625	476.98

11/16" - Cross Section - 0.687"

68703000*	3.000	4.375	0.687	47.52
68703000N/4651*	3.000	4.374	0.687	89.29

3/4" - Cross Section - 0.750"

75003000*	3.000	4.500	0.750	47.86
75003125*	3.125	4.625	0.750	48.00
75003500*	3.500	5.000	0.750	48.24
75003750*	3.750	5.250	0.750	51.98
75004000*	4.000	5.500	0.750	53.18
75004250*	4.250	5.750	0.750	54.37
75004500*	4.500	6.000	0.750	74.82
75005000*	5.000	6.500	0.750	63.86

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

STD SERIES - LOADED U-CUPS

3/4" - Cross Section - 0.750"

Ref.Number	Nominal Seal Dimensions d	D	H	$
75005500*	5.500	7.000	0.750	88.62
75006000Q*	6.000	7.500	0.750	77.85
75006500*	6.500	8.000	0.750	87.61
75007000*	7.000	8.500	0.750	92.46
75007500	7.500	9.000	0.750	93.06
75008000*	8.000	9.500	0.750	98.75
75008250*	8.250	9.750	0.750	101.09
75008375*	8.375	9.875	0.750	101.95
75008500Q	8.500	10.000	0.750	103.78
75009000*	9.000	10.500	0.750	109.04
75009500*	9.500	11.000	0.750	112.88
75010000	10.000	11.500	0.750	137.47
75010500	10.500	12.000	0.750	141.96
75010750*	10.750	12.250	0.750	143.80
75011000Q*	11.000	12.500	0.750	147.67
75012000*	12.000	13.500	0.750	159.77
75012500Q*	12.500	14.000	0.750	164.85
75013000*	13.000	14.500	0.750	178.06
75013500	13.500	15.000	0.750	189.36
75013750*	13.750	15.250	0.750	197.45
75014000Q*	14.000	15.500	0.750	198.58
75014250	14.250	15.750	0.750	215.92
75014500	14.500	16.000	0.750	218.78
75014750*	14.750	16.250	0.750	252.20
75016000	16.000	17.500	0.750	263.89
75016500*	16.500	18.000	0.750	270.92
75018000Q*	18.000	19.500	0.750	277.05
75019000*	19.000	20.500	0.750	314.28
75020500*	20.500	22.000	0.750	326.69
75022000*	22.000	23.500	0.750	519.18
75022500	22.500	24.000	0.750	529.50
75022500N/4651*	22.500	24.000	0.750	1267.27
75026000*	26.000	27.500	0.750	604.10

7/8" - Cross Section - 0.875"

Ref.Number	Nominal Seal Dimensions d	D	H	$
87507750*	7.750	9.500	0.875	126.06
87508500*	8.500	10.250	0.875	149.56
87509750*	9.750	11.500	0.875	169.01
87516250*	16.250	18.000	0.875	263.46
87520000*	20.000	21.750	0.875	371.37

1" - Cross Section - 1.000"

10003000*	3.000	5.000	1.000	73.32
10004000*	4.000	6.000	1.000	90.06
10004250*	4.250	6.250	1.000	70.35
10006000*	6.000	8.000	1.000	119.68
10007000*	7.000	9.000	1.000	133.85
10007500*	7.500	9.500	1.000	142.05
10008000*	8.000	10.000	1.000	149.99
10010000*	10.000	12.000	1.000	182.17
10011750*	11.750	13.750	1.000	229.00
10012000*	12.000	14.000	1.000	250.85
10012500*	12.500	14.500	1.000	279.40
10014000*	14.000	16.000	1.000	317.09
10014500*	14.500	16.500	1.000	332.03
10016000*	16.000	18.000	1.000	419.18
10018500*	18.500	20.500	1.000	446.11
10023375*	23.375	25.375	1.000	1112.16
10028000*	28.000	30.000	1.000	1285.58

1 1/8" - Cross Section - 1.125"

11210000*	10.000	12.250	1.125	209.83
11212000*	12.000	14.250	1.125	288.89

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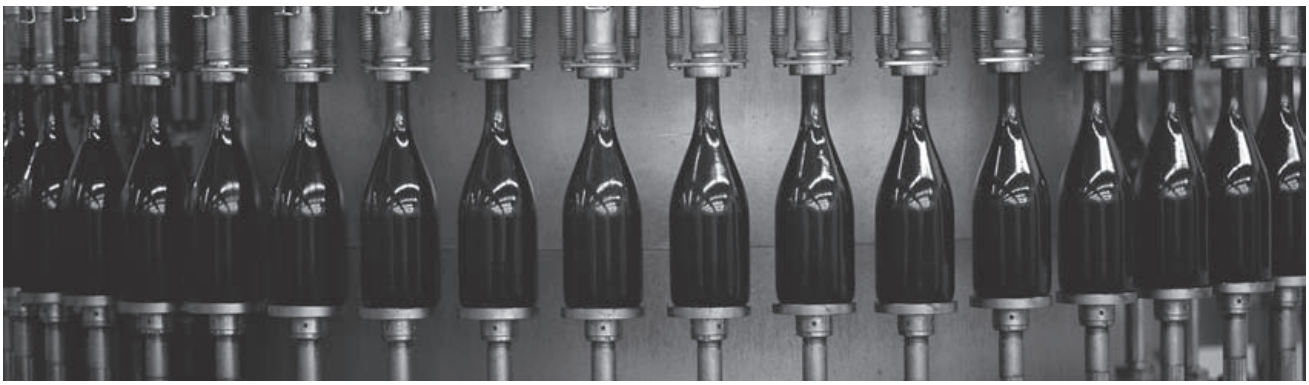
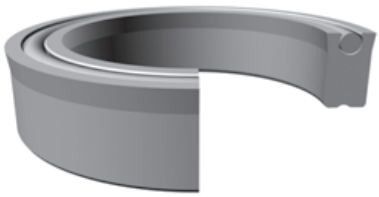
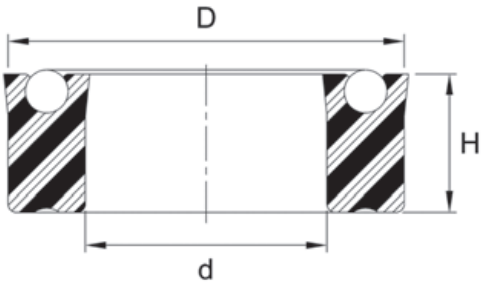


Deep Loaded U-Cups





STD AU/NBR
Temp.: -40/230F [-40/110C]
Pressure: 5000 PSI [345 BAR]

P, 4651 = High Perf. Urethane
Temp.: -40/248F [-40/120C]
Pressure: 6000 PSI [414 BAR]

V = FPM
Temp.: -20/400F [-29/204C]
Pressure: 2000 PSI [138 BAR]

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500250-250	0.250	0.500	0.250	3.79
12500250N250/P*	0.250	0.500	0.250	5.12
12500312-250*	0.312	0.562	0.250	4.40
12500437-250*	0.437	0.687	0.250	4.57
12500500-250	0.500	0.750	0.250	4.31
12500500N250/P*	0.500	0.750	0.250	5.56
12500625-187	0.625	0.875	0.187	4.70
12500625-250	0.625	0.875	0.250	6.45
12500687-250*	0.687	0.937	0.250	6.51
12500750-250	0.750	1.000	0.250	4.62
12500750N250/4651	0.750	1.000	0.250	10.71
12500875-187	0.875	1.125	0.187	5.55
12500875-250	0.875	1.125	0.250	5.94
12501000-172*	1.000	1.250	0.172	6.85
12501000-250	1.000	1.250	0.250	5.00
12501000N250/P*	1.000	1.250	0.250	6.53
12501000V250/P*	1.000	1.250	0.250	7.75
12501000Q250/V	1.000	1.250	0.250	25.23
12501125-250	1.125	1.375	0.250	6.45
12501125Q250/V	1.125	1.375	0.250	29.24
12501187-187*	1.187	1.437	0.187	6.55
12501250-187	1.250	1.500	0.187	7.61
12501250-250	1.250	1.500	0.250	6.85
12501250N250/P*	1.250	1.500	0.250	7.05
12501375-187*	1.375	1.625	0.187	7.07
12501375-250	1.375	1.625	0.250	7.15
12501437-250*	1.437	1.687	0.250	7.39
12501500-250	1.500	1.750	0.250	7.09
12501500N250/P	1.500	1.750	0.250	7.61
12501500-312	1.500	1.750	0.312	7.50
12501625-250*	1.625	1.875	0.250	6.35
12501750-250	1.750	2.000	0.250	6.38
12502000-250	2.000	2.250	0.250	5.68
12502125-250*	2.125	2.375	0.250	9.24

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12502250-375*	2.250	2.500	0.375	9.32
12502375-250*	2.375	2.625	0.250	9.39
12502500Q250*	2.500	2.750	0.250	16.00
12503000-250	3.000	3.250	0.250	11.38
12503500-250*	3.500	3.750	0.250	11.47
3/16" - Cross Section - 0.187"				
18700250-312	0.250	0.625	0.312	3.93
18700375-312	0.375	0.750	0.312	4.61
18700437-312	0.437	0.812	0.312	4.67
18700625-312	0.625	1.000	0.312	4.54
18700750-250	0.750	1.125	0.250	9.18
18700750-312	0.750	1.125	0.312	5.01
18700812-312*	0.812	1.187	0.312	5.39
18700875-312	0.875	1.250	0.312	5.53
18700875-375	0.875	1.250	0.375	6.12
18701000-250	1.000	1.375	0.250	5.79
18701000-312	1.000	1.375	0.312	6.20
18701000N312/P*	1.000	1.375	0.312	6.93
18701062-312*	1.062	1.437	0.312	5.87
18701125-250	1.125	1.500	0.250	6.47
18701125-312	1.125	1.500	0.312	6.78
18701250-312	1.250	1.625	0.312	7.37
18701375-312	1.375	1.750	0.312	7.37
18701375-375*	1.375	1.750	0.375	7.52
18701437-312*	1.437	1.812	0.312	8.42
18701500-281	1.500	1.875	0.281	8.50
18701500-375	1.500	1.875	0.375	8.50
18701500N375/P*	1.500	1.875	0.375	9.32
18701562-250	1.562	1.937	0.250	10.43
18701625-250	1.625	2.000	0.250	13.12
18701625-312	1.625	2.000	0.312	9.82

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

DEEP SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18701625-375	1.625	2.000	0.375	10.72
18701625Q375/V*	1.625	2.000	0.375	29.85
18701625V312/P*	1.625	2.000	0.375	10.08
18701687Q375	1.687	2.062	0.375	13.24
18701750-250*	1.750	2.125	0.250	13.65
18701750-375	1.750	2.125	0.375	6.83
18701750N375/P*	1.750	2.125	0.375	9.32
18701875-250*	1.875	2.250	0.250	7.59
18701875-375	1.875	2.250	0.375	7.72
18701937-375	1.937	2.312	0.375	8.41
18702000-270*	2.000	2.375	0.270	9.35
18702000-375	2.000	2.375	0.375	9.78
18702000N375/P*	2.000	2.375	0.375	10.03
18702000V375/P*	2.000	2.375	0.375	11.89
18702125-250	2.125	2.500	0.250	7.86
18702125N250/P*	2.125	2.500	0.250	14.05
18702125-375	2.125	2.500	0.375	7.83
18702125V375/P*	2.125	2.500	0.375	13.01
18702187-375	2.187	2.562	0.375	8.25
18702250-312	2.250	2.625	0.312	8.35
18702250-375	2.250	2.625	0.375	8.66
18702375-375	2.375	2.750	0.375	8.68
18702500-375	2.500	2.875	0.375	9.32
18702500N375/P*	2.500	2.875	0.375	12.15
18702625-312	2.625	3.000	0.312	9.40
18702625-375	2.625	3.000	0.375	9.69
18702625N375/P*	2.625	3.000	0.375	12.63
18702625V375/P*	2.625	3.000	0.375	14.97
18702750-375	2.750	3.125	0.375	10.14
18702875-250	2.875	3.250	0.250	10.84
18703000-375	3.000	3.375	0.375	11.22
18703000N375/P*	3.000	3.375	0.375	14.03
18703125-250	3.125	3.500	0.250	11.06
18703125-375	3.125	3.500	0.375	11.06
18703125N375/P*	3.125	3.500	0.375	14.88
18703187-375*	3.187	3.562	0.375	11.33
18703250-312*	3.250	3.625	0.312	11.71
18703250-375	3.250	3.625	0.375	11.71
18703375-375	3.375	3.750	0.375	13.31
18703500-375	3.500	3.875	0.375	13.44
18703625-312*	3.625	4.000	0.312	13.66
18703625-375	3.625	4.000	0.375	14.83
18703625N375/P*	3.625	4.000	0.375	18.35
18703750-375*	3.750	4.125	0.375	14.93
18703875-250	3.875	4.250	0.250	15.16

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18704000-375	4.000	4.375	0.375	16.51
18704125-250*	4.125	4.500	0.250	17.37
18704125-312*	4.125	4.500	0.312	17.29
18704125-375	4.125	4.500	0.375	17.37
18704187-375*	4.187	4.562	0.375	17.84
18704250-312	4.250	4.625	0.312	18.23
18704250-375	4.250	4.625	0.375	17.93
18704375-375	4.375	4.750	0.375	20.23
18704500-375	4.500	4.875	0.375	20.37
18704625-312*	4.625	5.000	0.312	21.35
18704625-375	4.625	5.000	0.375	21.66
18704875-250*	4.875	5.250	0.250	21.96
18704875-562*	4.875	5.250	0.562	29.99
18705000-312*	5.000	5.375	0.312	24.98
18705000-375	5.000	5.375	0.375	24.98
18706000-375*	6.000	6.375	0.375	23.47
18707500-250*	7.500	7.875	0.250	36.91
7/32" - Cross Section - 0.218"				
21802000-375*	2.000	2.437	0.375	9.68
1/4" - Cross Section - 0.250"				
25000375-375	0.375	0.875	0.375	6.33
25000437-375*	0.437	0.937	0.375	6.43
25000500-375*	0.500	1.000	0.375	6.77
25000625-375	0.625	1.125	0.375	5.70
25000750-375	0.750	1.250	0.375	5.70
25000875-375	0.875	1.375	0.375	7.55
25001000-375	1.000	1.500	0.375	5.60
25001125-375	1.125	1.625	0.375	5.76
25001250-375	1.250	1.750	0.375	5.81
25001250-375/V*	1.250	1.750	0.375	87.06
25001250N375/P*	1.250	1.750	0.375	7.81
25001375-375	1.375	1.875	0.375	6.29
25001375N375/P*	1.375	1.875	0.375	8.48
25001500-203*	1.500	2.000	0.203	6.70
25001500-312	1.500	2.000	0.312	6.76
25001500-375	1.500	2.000	0.375	7.09
25001750-375	1.750	2.250	0.375	7.52
25001750N375/P*	1.750	2.250	0.375	10.10
25001750Q500*	1.750	2.250	0.500	11.09

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

DEEP SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25002000-375	2.000	2.500	0.375	8.48
25002000N375/P*	2.000	2.500	0.375	10.50
25002125-375*	2.125	2.625	0.375	8.68
25002250-375	2.250	2.750	0.375	10.95
25002250N375/P*	2.250	2.750	0.375	12.38
25002250-562	2.250	2.750	0.562	9.21
25002500-203	2.500	3.000	0.203	9.82
25002500-312	2.500	3.000	0.312	10.11
25002500-375	2.500	3.000	0.375	10.48
25002500U375*	2.500	3.000	0.375	23.65
25002500N375/P	2.500	3.000	0.375	13.58
25002500V375/P*	2.500	3.000	0.375	15.18
25002500Q375/V	2.500	3.000	0.375	43.31
25002625-375	2.625	3.125	0.375	11.66
25002750-288*	2.750	3.250	0.288	15.77
25002750-375	2.750	3.250	0.375	11.45
25003000-203	3.000	3.500	0.203	11.46
25003000-375	3.000	3.500	0.375	12.36
25003000N375/P	3.000	3.500	0.375	16.10
25003000-562*	3.000	3.500	0.562	11.98
25003125-375	3.125	3.625	0.375	12.38
25003250-375	3.250	3.750	0.375	13.33
25003250N375/P*	3.250	3.750	0.375	17.18
25003375-375*	3.375	3.875	0.375	14.92
25003500-203	3.500	4.000	0.203	13.17
25003500-312	3.500	4.000	0.312	13.77
25003500-375	3.500	4.000	0.375	16.47
25003500Q375/V	3.500	4.000	0.375	58.93
25003500N375/P	3.500	4.000	0.375	18.52
25003500V375/P*	3.500	4.000	0.375	21.94
25003500-500*	3.500	4.000	0.500	16.35
25003625-375	3.625	4.125	0.375	15.23
25003750-375	3.750	4.250	0.375	18.62
25003750N375/P*	3.750	4.250	0.375	23.28
25003750-562	3.750	4.250	0.562	18.30
25003875-375*	3.875	4.375	0.375	15.31
25004000-375	4.000	4.500	0.375	16.41
25004000N375/P*	4.000	4.500	0.375	20.78
25004000-500*	4.000	4.500	0.500	16.19
25004000-562	4.000	4.500	0.562	16.10
25004125-375*	4.125	4.625	0.375	16.29
25004250-375	4.250	4.750	0.375	17.14
25004250-562	4.250	4.750	0.562	19.66
25004250N562/P*	4.250	4.750	0.562	23.04
25004375-562	4.375	4.875	0.562	18.76

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25004500-203*	4.500	5.000	0.203	16.44
25004500-312	4.500	5.000	0.312	18.41
25004500-375	4.500	5.000	0.375	19.47
25004500Q375/V	4.500	5.000	0.375	80.59
25004500N375/P*	4.500	5.000	0.375	24.74
25004500-500*	4.500	5.000	0.500	19.20
25004500-562	4.500	5.000	0.562	19.10
25004500N562/P*	4.500	5.000	0.562	24.74
25004750-562	4.750	5.250	0.562	21.38
25004875-562	4.875	5.375	0.562	21.44
25005000-375	5.000	5.500	0.375	22.53
25005000-440	5.000	5.500	0.440	27.16
25005000-500*	5.000	5.500	0.500	22.21
25005000-562	5.000	5.500	0.562	22.53
25005000N562/P	5.000	5.500	0.562	28.37
25005250-375	5.250	5.750	0.375	23.62
25005250-562	5.250	5.750	0.562	21.83
25005375-375	5.375	5.875	0.375	24.59
25005500-375	5.500	6.000	0.375	32.23
25005500-500*	5.500	6.000	0.500	27.23
25005500-562	5.500	6.000	0.562	26.31
25005500N562/P*	5.500	6.000	0.562	33.23
25005500-625*	5.500	6.000	0.625	26.10
25005750-562*	5.750	6.250	0.562	28.64
25005875-562*	5.875	6.375	0.562	27.54
25006000-375	6.000	6.500	0.375	33.58
25006000Q375/V*	6.000	6.500	0.375	151.35
25006000-440*	6.000	6.500	0.440	33.19
25006000-562	6.000	6.500	0.562	26.72
25006250-562	6.250	6.750	0.562	29.67
25006500-375	6.500	7.000	0.375	31.55
25006500N375/4651	6.500	7.000	0.375	70.17
25006500-440*	6.500	7.000	0.440	58.26
25006500-562	6.500	7.000	0.562	51.62
25006625-375*	6.625	7.125	0.375	31.85
25006750-562	6.750	7.250	0.562	31.10
25006750Q562*	6.750	7.250	0.562	35.59
25006875N562/4651*	6.875	7.375	0.562	70.54
25007000-375	7.000	7.500	0.375	31.68
25007000-562	7.000	7.500	0.562	31.68
25007000N562/P*	7.000	7.500	0.562	42.57
25007437-562*	7.437	7.937	0.562	50.75
25007500-375*	7.500	8.000	0.375	34.24
25007500-562	7.500	8.000	0.562	47.54
25007500Q562/V	7.500	8.000	0.562	146.22

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

DEEP SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25007500N562/P	7.500	8.000	0.562	46.01
25007500-625*	7.500	8.000	0.625	34.07
25007750-375	7.750	8.250	0.375	42.51
25007750Q375	7.750	8.250	0.375	42.50
25007750-562*	7.750	8.250	0.562	42.93
25008000-375	8.000	8.500	0.375	61.88
25008000-562*	8.000	8.500	0.562	43.33
25008250-562*	8.250	8.750	0.562	44.50
25008500-375*	8.500	9.000	0.375	44.59
25008500-562	8.500	9.000	0.562	44.70
25008750-562*	8.750	9.250	0.562	45.85
25009000-375	9.000	9.500	0.375	46.11
25009000-440	9.000	9.500	0.440	52.31
25009000-562	9.000	9.500	0.562	47.24
25009250-562*	9.250	9.750	0.562	47.96
25009500-375*	9.500	10.000	0.375	52.17
25009500-562	9.500	10.000	0.562	58.03
25010000-375*	10.000	10.500	0.375	62.09
25010500-500*	10.500	11.000	0.500	71.50
25010500N500/4651*	10.500	11.000	0.500	118.76
25013000-562*	13.000	13.500	0.562	75.05
25014000-375*	14.000	14.500	0.375	85.41
25014500-375*	14.500	15.000	0.375	88.00
25015750-562	15.750	16.250	0.562	105.06
25016000-375*	16.000	16.500	0.375	110.19
25019500-312*	19.500	20.000	0.312	114.66
25021000-312*	21.000	21.500	0.312	130.16
25022500-312*	22.500	23.000	0.312	153.97
9/32" - Cross Section - 0.281"				
28103687-375*	3.687	4.250	0.375	17.45
28103875-500*	3.875	4.437	0.500	25.15
19/64" - Cross Section - 0.297"				
29703343-470*	3.343	3.937	0.470	21.95
5/16" - Cross Section - 0.312"				
31200750-500*	0.750	1.375	0.500	6.99
31201000-500*	1.000	1.625	0.500	6.68
31201125-500	1.125	1.750	0.500	7.74

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31201187-500	1.187	1.812	0.500	11.31
31201250-500	1.250	1.875	0.500	7.13
31201375-500*	1.375	2.000	0.500	7.20
31201500-500	1.500	2.125	0.500	8.60
31201687-500*	1.687	2.312	0.500	12.35
31201750-500	1.750	2.375	0.500	9.57
31201875-500	1.875	2.500	0.500	9.82
31202000-500	2.000	2.625	0.500	10.22
31202125-500	2.125	2.750	0.500	11.59
31202250-500	2.250	2.875	0.500	14.44
31202375-500	2.375	3.000	0.500	11.72
31202500-500	2.500	3.125	0.500	11.79
31202500Q500/V*	2.500	3.125	0.500	50.38
31202625-500	2.625	3.250	0.500	13.50
31202750-500*	2.750	3.375	0.500	13.57
31202875-500	2.875	3.500	0.500	13.76
31203000N375/P*	3.000	3.625	0.375	17.51
31203000-500	3.000	3.625	0.500	13.83
31203000-562*	3.000	3.625	0.562	16.13
31203250-500*	3.250	3.875	0.500	17.52
31203250-500/V*	3.250	3.875	0.500	198.38
31203375-500	3.375	4.000	0.500	15.94
31203375Q500/V*	3.375	4.000	0.500	73.00
31203500-500	3.500	4.125	0.500	18.47
31203500N500/P*	3.500	4.125	0.500	21.47
31203750-500	3.750	4.375	0.500	18.81
31203875-500	3.875	4.500	0.500	19.25
31203875N500/4651*	3.875	4.500	0.500	50.38
31204000-500	4.000	4.625	0.500	19.31
31204000-562	4.000	4.625	0.562	19.40
31204125-562*	4.125	4.750	0.562	24.11
31204250-562	4.250	4.875	0.562	19.71
31204375-500	4.375	5.000	0.500	21.31
31204375N500/P*	4.375	5.000	0.500	26.65
31204375-562	4.375	5.000	0.562	21.31
31204375-625	4.375	5.000	0.625	20.28
31204500-625	4.500	5.125	0.625	22.66
31204625-625*	4.625	5.250	0.625	23.78
31205000-625	5.000	5.625	0.625	26.84
31205125-625	5.125	5.750	0.625	34.90
31205250-625	5.250	5.875	0.625	35.27
31205375-625	5.375	6.000	0.625	26.75
31205375N625/P*	5.375	6.000	0.625	35.16
31205500-625	5.500	6.125	0.625	36.38
31206375-625	6.375	7.000	0.625	36.54
31206500-625*	6.500	7.125	0.625	36.84

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DEEP SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/16" - Cross Section - 0.312"				
31207000-625*	7.000	7.625	0.625	38.34
31207375-625	7.375	8.000	0.625	40.21
31207500-625*	7.500	8.125	0.625	45.17
31207625-500*	7.625	8.250	0.500	46.87
31208375-625*	8.375	9.000	0.625	47.27
31209000-500*	9.000	9.625	0.500	49.95
31215375-625*	15.375	16.000	0.625	98.98
11/32" - Cross Section - 0.343"				
34302812-375*	2.812	3.500	0.375	22.32
11/32" - Cross Section - 0.345"				
34502000-375*	2.000	2.690	0.375	17.26
3/8" - Cross Section - 0.375"				
37500750-625*	0.750	1.500	0.625	13.10
37501000-625	1.000	1.750	0.625	13.99
37501000Q625	1.000	1.750	0.625	13.98
37501250-625*	1.250	2.000	0.625	10.17
37501312-437*	1.312	2.062	0.437	13.62
37501500-500*	1.500	2.250	0.500	11.07
37501500-625*	1.500	2.250	0.625	11.07
37501750-500*	1.750	2.500	0.500	12.07
37501750-625	1.750	2.500	0.625	12.19
37501875-625*	1.875	2.625	0.625	13.79
37502000-500	2.000	2.750	0.500	13.40
37502000N500/P*	2.000	2.750	0.500	18.02
37502000-625	2.000	2.750	0.625	37.17
37502000N625/4651*	2.000	2.750	0.625	32.29
37502125-625	2.125	2.875	0.625	15.73
37502250-500	2.250	3.000	0.500	14.90
37502250-625	2.250	3.000	0.625	16.10
37502500-500	2.500	3.250	0.500	16.32
37502500-625	2.500	3.250	0.625	16.94
37502500-937*	2.500	3.250	0.937	23.22
37502750-500	2.750	3.500	0.500	17.84
37502750-625	2.750	3.500	0.625	17.84
37502750N625/P*	2.750	3.500	0.625	23.97
37503000-500	3.000	3.750	0.500	19.43
37503000-625	3.000	3.750	0.625	20.13

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37503250-500	3.250	4.000	0.500	20.65
37503250-625	3.250	4.000	0.625	21.38
37503250Q625/V*	3.250	4.000	0.625	92.65
37503250N625/P	3.250	4.000	0.625	27.75
37503375-625	3.375	4.125	0.625	21.15
37503375V625/P*	3.375	4.125	0.625	33.70
37503500-500	3.500	4.250	0.500	22.10
37503500-625	3.500	4.250	0.625	22.88
37503750-500	3.750	4.500	0.500	23.53
37503750-625	3.750	4.500	0.625	22.42
37504000-500*	4.000	4.750	0.500	24.95
37504000-625	4.000	4.750	0.625	24.95
37504250-500	4.250	5.000	0.500	26.10
37504250N500/P*	4.250	5.000	0.500	35.08
37504250-625	4.250	5.000	0.625	27.04
37504250Q625/V	4.250	5.000	0.625	98.89
37504250N625/P	4.250	5.000	0.625	35.08
37504250V625/P*	4.250	5.000	0.625	41.56
37504375-625	4.375	5.125	0.625	28.79
37504500-500	4.500	5.250	0.500	27.41
37504500-625	4.500	5.250	0.625	27.41
37504625-625*	4.625	5.375	0.625	29.04
37504750-500	4.750	5.500	0.500	29.46
37504750-625	4.750	5.500	0.625	29.68
37505000-500	5.000	5.750	0.500	30.06
37505000N500/P*	5.000	5.750	0.500	40.40
37505000V500/P*	5.000	5.750	0.500	47.87
37505000-625	5.000	5.750	0.625	30.06
37505000N625/P*	5.000	5.750	0.625	40.40
37505250Q500	5.250	6.000	0.500	32.39
37505250N500/4651*	5.250	6.000	0.500	73.67
37505250-625	5.250	6.000	0.625	32.39
37505250N625/P	5.250	6.000	0.625	41.72
37505500-625	5.500	6.250	0.625	33.72
37505625-625	5.625	6.375	0.625	34.32
37505750-500	5.750	6.500	0.500	31.82
37505750-625	5.750	6.500	0.625	36.44
37505750Q625/V	5.750	6.500	0.625	158.87
37505750N625/P*	5.750	6.500	0.625	45.32
37505750V625/P*	5.750	6.500	0.625	53.70
37506000-625	6.000	6.750	0.625	34.92
37506250-500	6.250	7.000	0.500	36.91
37506250Q500/V*	6.250	7.000	0.500	135.05
37506250N500/P*	6.250	7.000	0.500	47.97
37506250-625	6.250	7.000	0.625	36.21
37506250N625/P	6.250	7.000	0.625	47.97

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DEEP SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37506500-500*	6.500	7.250	0.500	40.78
37506500-625	6.500	7.250	0.625	42.21
37506750-562*	6.750	7.500	0.562	45.41
37506750N562/4651*	6.750	7.500	0.562	91.82
37506750-625	6.750	7.500	0.625	45.97
37507000-500*	7.000	7.750	0.500	46.27
37507000-625	7.000	7.750	0.625	47.37
37507000N625/P*	7.000	7.750	0.625	53.06
37507250-500*	7.250	8.000	0.500	50.45
37507250-625	7.250	8.000	0.625	44.58
37507250Q625/V	7.250	8.000	0.625	156.22
37507250N625/P	7.250	8.000	0.625	55.39
37507250V625/P*	7.250	8.000	0.625	65.64
37507500-500*	7.500	8.250	0.500	49.00
37507500-625	7.500	8.250	0.625	49.03
37507750-500*	7.750	8.500	0.500	49.41
37507750-625*	7.750	8.500	0.625	49.41
37508000-500	8.000	8.750	0.500	47.47
37508000-625	8.000	8.750	0.625	49.53
37508000N625/4651	8.000	8.750	0.625	127.54
37508250-500*	8.250	9.000	0.500	50.08
37508250-625	8.250	9.000	0.625	50.14
37508250N625/P	8.250	9.000	0.625	62.83
37508250V625/P*	8.250	9.000	0.625	74.48
37508750-625	8.750	9.500	0.625	52.09
37508750-750*	8.750	9.500	0.750	59.66
37509000-625	9.000	9.750	0.625	60.62
37509000Q625*	9.000	9.750	0.625	61.72
37509250-500	9.250	10.000	0.500	70.32
37509250Q625	9.250	10.000	0.625	70.39
37509250Q625/V	9.250	10.000	0.625	257.84
37509250N625/4651	9.250	10.000	0.625	130.60
37509625-625*	9.625	10.375	0.625	70.68
37509750-500	9.750	10.500	0.500	70.99
37509750-625	9.750	10.500	0.625	72.39
37509750N625/4651*	9.750	10.500	0.625	161.92
37510250-625*	10.250	11.000	0.625	74.51
37510500-625*	10.500	11.250	0.625	81.15
37510750-625*	10.750	11.500	0.625	82.69
37510750N625/4651*	10.750	11.500	0.625	214.23
37511250-625	11.250	12.000	0.625	87.65
37511250Q625*	11.250	12.000	0.625	101.91
37511250N625/4651*	11.250	12.000	0.625	215.40
37511500-625*	11.500	12.250	0.625	90.02
37512250-625*	12.250	13.000	0.625	96.91

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37512500-625*	12.500	13.250	0.625	100.18
37513500-625*	13.500	14.250	0.625	128.67
37514750-625*	14.750	15.500	0.625	139.46
37515250-625	15.250	16.000	0.625	142.77
37516000-625*	16.000	16.750	0.625	166.72
37523250-625*	23.250	24.000	0.625	477.29
37524000-625*	24.000	24.750	0.625	492.37
37525500-625*	25.500	26.250	0.625	521.85
37528750-625*	28.750	29.500	0.625	586.30
37529000-625*	29.000	29.750	0.625	591.62
37531500-625*	31.500	32.250	0.625	640.80
37534000-625*	34.000	34.750	0.625	1036.11
37536000-625*	36.000	36.750	0.625	1095.04
7/16" - Cross Section - 0.437"				
43701000-562*	1.000	1.875	0.562	12.35
43702250-375*	2.250	3.125	0.375	15.81
43703000-687*	3.000	3.875	0.687	28.72
43704000-625*	4.000	4.875	0.625	31.09
43704750-625	4.750	5.625	0.625	31.77
43705125-500*	5.125	6.000	0.500	33.82
43706750-750*	6.750	7.625	0.750	57.44
1/2" - Cross Section - 0.500"				
50001000-750*	1.000	2.000	0.750	16.37
50001500-750*	1.500	2.500	0.750	17.44
50001750-750*	1.750	2.750	0.750	18.52
50002000-750	2.000	3.000	0.750	18.97
50002500-750	2.500	3.500	0.750	24.15
50003000-750	3.000	4.000	0.750	26.49
50003375-625*	3.375	4.375	0.625	30.62
50003500-750*	3.500	4.500	0.750	30.61
50003750-687*	3.750	4.750	0.687	33.44
50004000Q670*	4.000	5.000	0.670	40.41
50004000-750	4.000	5.000	0.750	33.89
50004000N750/4651*	4.000	5.000	0.750	70.69
50004375-750*	4.375	5.375	0.750	37.58
50004500-750	4.500	5.500	0.750	40.39
50004750-687*	4.750	5.750	0.687	42.43
50004875-562*	4.875	5.875	0.562	43.40
50005000-750	5.000	6.000	0.750	43.46

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

DEEP SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50005000N750/P	5.000	6.000	0.750	55.64
50005125-750*	5.125	6.125	0.750	44.84
50005500-750	5.500	6.500	0.750	45.42
50006000-750	6.000	7.000	0.750	45.52
50006000N750/4651	6.000	7.000	0.750	158.34
50006500-750	6.500	7.500	0.750	50.30
50007000Q437	7.000	8.000	0.437	92.23
50007000-750	7.000	8.000	0.750	51.75
50007000N750/P	7.000	8.000	0.750	67.20
50007500-750	7.500	8.500	0.750	53.10
50007500N750/4651	7.500	8.500	0.750	102.17
50008000-750	8.000	9.000	0.750	56.91
50008000N750/4651	8.000	9.000	0.750	129.92
50008250-750*	8.250	9.250	0.750	62.65
50008500-750	8.500	9.500	0.750	66.78
50008875-750*	8.875	9.875	0.750	97.90
50009000-440*	9.000	10.000	0.440	109.46
50009000-750	9.000	10.000	0.750	69.32
50009000N750/4651	9.000	10.000	0.750	181.30
50009000V750/4651*	9.000	10.000	0.750	191.22
50009500-750*	9.500	10.500	0.750	71.02
50009500N750/4651*	9.500	10.500	0.750	193.75
50010000-750*	10.000	11.000	0.750	85.42
50010000N750/4651*	10.000	11.000	0.750	200.20
50010500-750*	10.500	11.500	0.750	99.83
50010625-750*	10.625	11.625	0.750	100.23
50010750-750*	10.750	11.750	0.750	108.83
50011000-750	11.000	12.000	0.750	127.84
50011000N750/4651	11.000	12.000	0.750	271.61
50011500-750*	11.500	12.500	0.750	130.67
50012500-750*	12.500	13.500	0.750	131.03
50013000Q750	13.000	14.000	0.750	148.64
50013000Q750/V*	13.000	14.000	0.750	607.71
50013000N750/4651	13.000	14.000	0.750	384.10
50013250-750*	13.250	14.250	0.750	189.14
50013500-750*	13.500	14.500	0.750	193.59
50014000-750	14.000	15.000	0.750	200.03
50015000-750*	15.000	16.000	0.750	219.74
50015000-750/V*	15.000	16.000	0.750	1671.09
50015000N750/4651	15.000	16.000	0.750	430.53
50015500-750	15.500	16.500	0.750	254.83
50015500Q750*	15.500	16.500	0.750	202.28
50015500N750/4651*	15.500	16.500	0.750	449.57
50016000-750	16.000	17.000	0.750	228.41
50016500-750*	16.500	17.500	0.750	231.74

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50017000-750*	17.000	18.000	0.750	236.57
50018000-750	18.000	19.000	0.750	249.64
50018500-750*	18.500	19.500	0.750	256.08
50019000-750*	19.000	20.000	0.750	291.92
50019000V750/4651	19.000	20.000	0.750	515.36
50019500-750*	19.500	20.500	0.750	557.93
50020000-750*	20.000	21.000	0.750	272.64
50020500-750*	20.500	21.500	0.750	282.03
50021000Q750	21.000	22.000	0.750	288.67
50021500-750*	21.500	22.500	0.750	295.14
50022750-625*	22.750	23.750	0.625	569.90
50025250-750*	25.250	26.250	0.750	687.84
50027000-750*	27.000	28.000	0.750	732.84
50027500-750*	27.500	28.500	0.750	932.42
50028500-750*	28.500	29.500	0.750	946.22
50028500V750/4651*	28.500	29.500	0.750	1709.72
50029000-750*	29.000	30.000	0.750	979.91
50029000N750/4651*	29.000	30.000	0.750	1066.74
50030000-625*	30.000	31.000	0.625	996.82
50033000-750*	33.000	34.000	0.750	1046.44
50037000-750*	37.000	38.000	0.750	1165.44
9/16" - Cross Section - 0.562"				
56201875-875*	1.875	3.000	0.875	22.08
56202250-875*	2.250	3.375	0.875	29.17
56202875-875*	2.875	4.000	0.875	30.58
5/8" - Cross Section - 0.625"				
62501875-1000*	1.875	3.125	1.000	26.81
62502750-1000*	2.750	4.000	1.000	35.95
62502875-1000*	2.875	4.125	1.000	43.31
62503500-1000*	3.500	4.750	1.000	50.53
62504750-750*	4.750	6.000	0.750	58.45
62504750-1000	4.750	6.000	1.000	52.74
62505500-1000*	5.500	6.750	1.000	63.40
62506500-1000*	6.500	7.750	1.000	71.22
62506750-1000*	6.750	8.000	1.000	81.38
62507125-1000*	7.125	8.375	1.000	107.23
62508750-1000	8.750	10.000	1.000	116.62
62510000-1000*	10.000	11.250	1.000	129.89
62511000-1000*	11.000	12.250	1.000	151.38

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DEEP SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
5/8" - Cross Section - 0.625"				
62512000Q437	12.000	13.250	0.437	158.22
62512000-1000*	12.000	13.250	1.000	157.24
62512500-1000*	12.500	13.750	1.000	179.31
62512750-1000	12.750	14.000	1.000	265.01
62514000Q1000*	14.000	15.250	1.000	244.77
62517500-1000*	17.500	18.750	1.000	339.69
62518000-1250*	18.000	19.250	1.250	433.93
3/4" - Cross Section - 0.750"				
75002000-1125*	2.000	3.500	1.125	32.25
75002750-1125*	2.750	4.250	1.125	40.10
75004750-1250*	4.750	6.250	1.250	61.39
75005500-1250*	5.500	7.000	1.250	69.30
75006250-1250	6.250	7.750	1.250	74.05
75006500-1250*	6.500	8.000	1.250	76.76
75007000-1250*	7.000	8.500	1.250	82.12
75007500-1250*	7.500	9.000	1.250	87.43
75008500-1250*	8.500	10.000	1.250	98.07
75009000-1250	9.000	10.500	1.250	111.45
75010500-1250*	10.500	12.000	1.250	162.38
75011000-1250*	11.000	12.500	1.250	169.35
75015000-1250*	15.000	16.500	1.250	295.90
75016500-1250*	16.500	18.000	1.250	356.35
75018000-1250*	18.000	19.500	1.250	385.17
75020000-1250*	20.000	21.500	1.250	422.43
75021000-1250*	21.000	22.500	1.250	440.78
75021500-1250*	21.500	23.000	1.250	898.33
75022000-1250*	22.000	23.500	1.250	918.57
75022250-1250*	22.250	24.000	1.250	927.35
75022500-1250*	22.500	24.000	1.250	936.09

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/4" - Cross Section - 0.750"				
75024000-1250*	24.000	25.500	1.250	992.83
7/8" - Cross Section - 0.875"				
87505000-1000*	5.000	6.750	1.000	78.36
87513000-1375*	13.000	14.750	1.375	297.53
87514000-1500*	14.000	15.750	1.500	324.53
87516000-1250*	16.000	17.750	1.250	342.16
87516000-1375*	16.000	17.750	1.375	376.22
87518000-1250*	18.000	19.750	1.250	379.30
87524000-1250*	24.000	25.750	1.250	1000.77
15/16" - Cross Section - 0.937"				
93709625-1500*	9.625	11.500	1.500	208.21
1" - Cross Section - 1.000"				
10005000-1500*	5.000	7.000	1.500	92.90
10012000-1500*	12.000	14.000	1.500	319.56
10014000Q1500*	14.000	16.000	1.500	373.13
10016000-1250*	16.000	18.000	1.250	417.33
10017000-1250*	17.000	19.000	1.250	434.82
10020000-1500*	20.000	22.000	1.500	588.96
10022000-1375*	22.000	24.000	1.375	1161.79
10025000-1343*	25.000	27.000	1.343	1355.34
10026000-1500*	26.000	28.000	1.500	1450.36
10029000-1500*	29.000	31.000	1.500	1580.61

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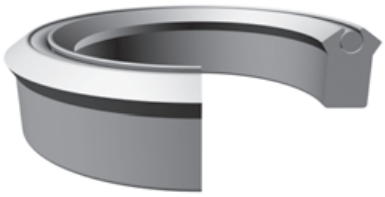
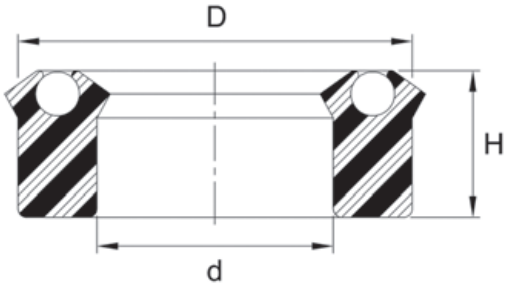
Type B Loaded U-Cups





STD AU/NBR
Temp.: -40/230F [-40/110C]
Pressure: 5000 PSI [345 BAR]

P, 4651 = High Perf. Urethane
Temp.: -40/248F [-40/120C]
Pressure: 6000 PSI [414 BAR]

V = FPM
Temp.: -20/400F [-29/204C]
Pressure: 2000 PSI [138 BAR]

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500125Q125B*	0.125	0.375	0.125	4.40
12500125Q250B*	0.125	0.375	0.250	4.58
12500187Q125B*	0.187	0.437	0.125	3.80
12500187-250B	0.187	0.437	0.250	3.83
12500250Q125B	0.250	0.500	0.125	3.72
12500250-187B	0.250	0.500	0.187	3.88
12500250-250B	0.250	0.500	0.250	3.93
12500250N250B/P	0.250	0.500	0.250	4.84
12500281-250B*	0.281	0.531	0.250	4.13
12500312-125B	0.312	0.562	0.125	3.69
12500312-250B	0.312	0.562	0.250	4.18
12500375-125B	0.375	0.625	0.125	3.69
12500375-187B	0.375	0.625	0.187	4.21
12500375-250B	0.375	0.625	0.250	4.87
12500437Q125B*	0.437	0.687	0.125	3.72
12500437-250B	0.437	0.687	0.250	4.18
12500500-125B	0.500	0.750	0.125	3.72
12500500-250B	0.500	0.750	0.250	4.31
12500500Q250B/V*	0.500	0.750	0.250	15.73
12500562-125B*	0.562	0.812	0.125	3.73
12500562Q250B	0.562	0.812	0.250	5.54
12500625-125B	0.625	0.875	0.125	3.78
12500625Q125B/V	0.625	0.875	0.125	16.21
12500625-187B	0.625	0.875	0.187	4.47
12500625-250B	0.625	0.875	0.250	4.47
12500625N250B/4651*	0.625	0.875	0.250	10.35
12500625Q250B/V*	0.625	0.875	0.250	16.32
12500687Q125B*	0.687	0.937	0.125	6.03
12500687-250B	0.687	0.937	0.250	4.49
12500750-125B	0.750	1.000	0.125	3.93
12500750V125B/4651*	0.750	1.000	0.125	10.86
12500750-187B	0.750	1.000	0.187	4.29
12500750-250B	0.750	1.000	0.250	4.62
12500750Q250B/V	0.750	1.000	0.250	16.90

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
12500800-250B*	0.800	1.050	0.250	5.64
12500812-125B	0.812	1.062	0.125	4.06
12500812-250B	0.812	1.062	0.250	10.01
12500875-125B	0.875	1.125	0.125	4.06
12500875-187B	0.875	1.125	0.187	4.37
12500875-250B	0.875	1.125	0.250	4.80
12500937Q125B*	0.937	1.187	0.125	4.99
12500937Q250B	0.937	1.187	0.250	4.94
12501000-125B	1.000	1.250	0.125	4.29
12501000-156B	1.000	1.250	0.156	4.29
12501000-187B	1.000	1.250	0.187	6.38
12501000N187B/P	1.000	1.250	0.187	6.99
12501000-250B	1.000	1.250	0.250	5.00
12501000Q250B/V	1.000	1.250	0.250	18.30
12501062Q125B	1.062	1.312	0.125	4.42
12501062-170B*	1.062	1.312	0.170	4.78
12501062-250B	1.062	1.312	0.250	5.06
12501125-125B*	1.125	1.375	0.125	4.45
12501125-187B*	1.125	1.375	0.187	7.38
12501125-250B	1.125	1.375	0.250	5.20
12501125-312B	1.125	1.375	0.312	5.18
12501187Q178B*	1.187	1.437	0.178	5.30
12501187-187B	1.187	1.437	0.187	5.46
12501187-250B	1.187	1.437	0.250	5.50
12501187Q250B/V*	1.187	1.437	0.250	25.07
12501250-125B*	1.250	1.500	0.125	4.64
12501250-187B	1.250	1.500	0.187	5.62
12501250-250B	1.250	1.500	0.250	5.41
12501250N250B/P	1.250	1.500	0.250	6.63
12501250Q250B/V*	1.250	1.500	0.250	22.32
12501312Q125B*	1.312	1.562	0.125	6.91
12501312Q187B	1.312	1.562	0.187	5.57
12501375-125B	1.375	1.625	0.125	4.94
12501375-178B*	1.375	1.625	0.178	6.13

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B SERIES - LOADED U-CUPS

1/8" - Cross Section - 0.125"

Ref.Number	Nominal Seal Dimensions d	D	H	$
12501375-187B	1.375	1.625	0.187	6.13
12501375-250B	1.375	1.625	0.250	5.60
12501375-250B/V	1.375	1.625	0.250	49.91
12501437-125B*	1.437	1.687	0.125	5.76
12501437-250B	1.437	1.687	0.250	5.70
12501500-125B	1.500	1.750	0.125	4.97
12501500-187B	1.500	1.750	0.187	5.96
12501500-250B	1.500	1.750	0.250	5.85
12501625-125B*	1.625	1.875	0.125	5.42
12501625-187B	1.625	1.875	0.187	5.60
12501625-250B	1.625	1.875	0.250	5.60
12501750Q125B	1.750	2.000	0.125	5.95
12501750-250B	1.750	2.000	0.250	6.34
12501875-125B*	1.875	2.125	0.125	5.93
12501875-187B	1.875	2.125	0.187	5.93
12501875-250B	1.875	2.125	0.250	5.93
12502000-187B	2.000	2.250	0.187	6.37
12502000-250B	2.000	2.250	0.250	5.70
12502125-250B	2.125	2.375	0.250	7.73
12502250Q250B/V*	2.250	2.500	0.250	38.63
12502375-187B*	2.375	2.625	0.187	6.28
12502500-125B	2.500	2.750	0.125	5.86
12502500-250B	2.500	2.750	0.250	7.59
12502750-250B	2.750	3.000	0.250	10.74
12502875-250B	2.875	3.125	0.250	8.35
12503625-187B	3.625	3.875	0.187	10.22
12503875-250B*	3.875	4.125	0.250	12.55
12504000Q125B*	4.000	4.250	0.125	12.73
12504250Q125B*	4.250	4.500	0.125	14.67
12504500-187B	4.500	4.750	0.187	16.76
12504875-250B*	4.875	5.125	0.250	16.36
12506250-125B*	6.250	6.500	0.125	17.93

5/32" - Cross Section - 0.156"

Ref.Number	Nominal Seal Dimensions d	D	H	$
15601000-156B	1.000	1.312	0.156	6.41
15601000-230B	1.000	1.312	0.230	5.80
15601500-312B*	1.500	1.812	0.312	6.92

3/16" - Cross Section - 0.187"

Ref.Number	Nominal Seal Dimensions d	D	H	$
18700187-187B	0.187	0.562	0.187	3.84
18700250-187B	0.250	0.625	0.187	3.84

3/16" - Cross Section - 0.187"

Ref.Number	Nominal Seal Dimensions d	D	H	$
18700250-312B	0.250	0.625	0.312	5.76
18700312-187B	0.312	0.687	0.187	3.82
18700312-312B	0.312	0.687	0.312	4.46
18700375-187B	0.375	0.750	0.187	4.46
18700375-312B	0.375	0.750	0.312	4.44
18700437-312B*	0.437	0.812	0.312	4.44
18700500Q187B*	0.500	0.875	0.187	5.06
18700500-250B	0.500	0.875	0.250	5.06
18700500-312B	0.500	0.875	0.312	3.91
18700500N312B/P*	0.500	0.875	0.312	4.84
18700562Q312B	0.562	0.937	0.312	6.00
18700625Q187B	0.625	1.000	0.187	4.06
18700625-312B	0.625	1.000	0.312	4.59
18700687-312B	0.687	1.062	0.312	4.57
18700750-187B	0.750	1.125	0.187	4.32
18700750-250B	0.750	1.125	0.250	4.98
18700750-312B	0.750	1.125	0.312	5.01
18700750Q312B/V	0.750	1.125	0.312	18.47
18700750-375B*	0.750	1.125	0.375	5.17
18700812-187B	0.812	1.187	0.187	3.56
18700812-312B	0.812	1.187	0.312	5.17
18700875-187B	0.875	1.250	0.187	4.76
18700875-312B	0.875	1.250	0.312	5.31
18700937-312B	0.937	1.312	0.312	8.94
18701000Q187B	1.000	1.375	0.187	4.73
18701000-250B	1.000	1.375	0.250	5.30
18701000Q250B*	1.000	1.375	0.250	5.35
18701000-287B*	1.000	1.375	0.287	7.72
18701000-312B	1.000	1.375	0.312	5.33
18701000-312B/V	1.000	1.375	0.312	17.39
18701000N312B/P*	1.000	1.375	0.312	8.47
18701000Q312B *	1.000	1.375	0.312	5.35
18701000Q312B/V	1.000	1.375	0.312	19.52
18701000-375B	1.000	1.375	0.375	5.49
18701062-312B	1.062	1.437	0.312	5.38
18701125-187B	1.125	1.500	0.187	5.00
18701125-250B	1.125	1.500	0.250	5.56
18701125-312B	1.125	1.500	0.312	5.58
18701125N312B/4651*	1.125	1.500	0.312	12.80
18701125Q312B/V	1.125	1.500	0.312	20.38
18701125-375B	1.125	1.500	0.375	6.17
18701125Q375B	1.125	1.500	0.375	6.0918
18701187-187B*	1.187	1.562	0.187	5.76
18701187-250B*	1.187	1.562	0.250	5.68
18701187-312B	1.187	1.562	0.312	6.64

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

B SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18701250-187B	1.250	1.625	0.187	5.18
18701250-250B	1.250	1.625	0.250	6.02
18701250-266B*	1.250	1.625	0.266	5.69
18701250-312B	1.250	1.625	0.312	5.72
18701250Q312B/V	1.250	1.625	0.312	20.93
18701250-375B	1.250	1.625	0.375	5.94
18701250N375B/P*	1.250	1.625	0.375	13.24
18701312-187B	1.312	1.687	0.187	5.84
18701312-312B	1.312	1.687	0.312	5.88
18701312N312B/4651	1.312	1.687	0.312	13.54
18701375-187B	1.375	1.750	0.187	5.38
18701375Q187B/V*	1.375	1.750	0.187	22.26
18701375-250B	1.375	1.750	0.250	6.29
18701375-312B	1.375	1.750	0.312	6.06
18701375N312B/P	1.375	1.750	0.312	7.05
18701375Q312B/V	1.375	1.750	0.312	22.03
18701375-375B	1.375	1.750	0.375	6.28
18701437-312B	1.437	1.812	0.312	6.37
18701500-187B	1.500	1.875	0.187	5.55
18701500N187B/P*	1.500	1.875	0.187	6.87
18701500-250B	1.500	1.875	0.250	6.10
18701500N250B/P	1.500	1.875	0.250	6.86
18701500Q250B *	1.500	1.875	0.250	6.15
18701500Q250B/V	1.500	1.875	0.250	23.33
18701500-266B	1.500	1.875	0.266	6.13
18701500-312B	1.500	1.875	0.312	7.07
18701500-375B	1.500	1.875	0.375	6.16
18701500N375B/P*	1.500	1.875	0.375	19.37
18701500Q375B/V	1.500	1.875	0.375	23.16
18701500-406B	1.500	1.875	0.406	5.68
18701562Q187B*	1.562	1.937	0.187	6.35
18701562-375B	1.562	1.937	0.375	6.34
18701625-187B	1.625	2.000	0.187	5.76
18701625-250B	1.625	2.000	0.250	6.85
18701625-266B	1.625	2.000	0.266	6.85
18701625-312B	1.625	2.000	0.312	6.88
18701625V312B/P*	1.625	2.000	0.312	8.60
18701625-375B	1.625	2.000	0.375	6.56
18701625N375B/P*	1.625	2.000	0.375	7.28
18701625Q375B/V*	1.625	2.000	0.375	23.98
18701687-187B*	1.687	2.062	0.187	8.55
18701750-187B	1.750	2.125	0.187	5.88
18701750-230B	1.750	2.125	0.230	6.94
18701750N230B/P*	1.750	2.125	0.230	8.93
18701750-250B	1.750	2.125	0.250	8.20

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18701750Q266B	1.750	2.125	0.266	6.97
18701750-312B	1.750	2.125	0.312	6.94
18701750-375B	1.750	2.125	0.375	6.94
18701750N375B/P	1.750	2.125	0.375	8.93
18701750Q375B/V	1.750	2.125	0.375	25.37
18701875-187B	1.875	2.250	0.187	6.02
18701875-266B	1.875	2.250	0.266	7.32
18701875-375B	1.875	2.250	0.375	7.35
18701875Q375B/V*	1.875	2.250	0.375	26.67
18701937-281B*	1.937	2.312	0.281	6.75
18702000Q187B	2.000	2.375	0.187	6.13
18702000Q187B/V	2.000	2.375	0.187	25.38
18702000-230B	2.000	2.375	0.230	7.74
18702000-250B	2.000	2.375	0.250	6.99
18702000Q250B*	2.000	2.375	0.250	10.42
18702000-275B*	2.000	2.375	0.275	9.03
18702000-312B	2.000	2.375	0.312	7.74
18702000N312B/4651*	2.000	2.375	0.312	21.51
18702000-375B	2.000	2.375	0.375	7.74
18702000N375B/P	2.000	2.375	0.375	9.46
18702000Q375B/V	2.000	2.375	0.375	28.24
18702125-187B	2.125	2.500	0.187	6.34
18702125-250B	2.125	2.500	0.250	7.96
18702125N250B/P*	2.125	2.500	0.250	10.05
18702125Q266B	2.125	2.500	0.266	8.38
18702125-312B	2.125	2.500	0.312	7.80
18702125-375B	2.125	2.500	0.375	8.00
18702187-375B*	2.187	2.562	0.375	8.73
18702250-187B	2.250	2.625	0.187	6.74
18702250-312B	2.250	2.625	0.312	9.08
18702250-375B	2.250	2.625	0.375	8.66
18702250N375B/4651*	2.250	2.625	0.375	20.02
18702375-187B	2.375	2.750	0.187	6.57
18702375-250B	2.375	2.750	0.250	12.88
18702375-266B	2.375	2.750	0.266	8.78
18702375-281B*	2.375	2.750	0.281	13.03
18702375-375B	2.375	2.750	0.375	9.39
18702375-437B*	2.375	2.750	0.437	12.35
18702375-500B*	2.375	2.750	0.500	8.97
18702500-187B	2.500	2.875	0.187	6.93
18702500-250B	2.500	2.875	0.250	12.53
18702500-312B	2.500	2.875	0.312	9.27
18702500-375B	2.500	2.875	0.375	9.32
18702500N375B/P	2.500	2.875	0.375	16.64
18702500Q375B *	2.500	2.875	0.375	9.34

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B SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18702500Q375B/V	2.500	2.875	0.375	34.12
18702625-187B	2.625	3.000	0.187	6.93
18702625-250B	2.625	3.000	0.250	9.89
18702625-281B	2.625	3.000	0.281	10.03
18702625-312B	2.625	3.000	0.312	8.52
18702625-375B	2.625	3.000	0.375	9.69
18702750-187B	2.750	3.125	0.187	7.55
18702750-281B	2.750	3.125	0.281	10.90
18702750-312B	2.750	3.125	0.312	10.73
18702750-375B	2.750	3.125	0.375	10.14
18702750Q375B/V*	2.750	3.125	0.375	43.98
18702875Q187B*	2.875	3.250	0.187	8.86
18702875Q250B	2.875	3.250	0.250	11.31
18702875Q266B*	2.875	3.250	0.266	16.30
18702875-281B	2.875	3.250	0.281	10.76
18702875-375B	2.875	3.250	0.375	10.81
18703000-187B *	3.000	3.375	0.187	8.00
18703000-250B	3.000	3.375	0.250	9.94
18703000-312B	3.000	3.375	0.312	9.94
18703000-375B	3.000	3.375	0.375	11.27
18703000Q375B/V	3.000	3.375	0.375	43.37
18703125-187B	3.125	3.500	0.187	12.05
18703125-250B	3.125	3.500	0.250	10.54
18703125-312B	3.125	3.500	0.312	9.96
18703125-375B	3.125	3.500	0.375	11.47
18703250-312B	3.250	3.625	0.312	11.15
18703250-375B	3.250	3.625	0.375	12.65
18703250N375B/P*	3.250	3.625	0.375	13.43
18703375-187B*	3.375	3.750	0.187	18.78
18703375-250B	3.375	3.750	0.250	12.83
18703375-375B	3.375	3.750	0.375	13.38
18703375N375B/P*	3.375	3.750	0.375	20.24
18703500Q187B	3.500	3.875	0.187	10.02
18703500-266B	3.500	3.875	0.266	11.03
18703500-281B	3.500	3.875	0.281	21.11
18703500-312B	3.500	3.875	0.312	16.90
18703500-375B	3.500	3.875	0.375	13.44
18703500N375B/P	3.500	3.875	0.375	16.22
18703500Q375B/V	3.500	3.875	0.375	49.20
18703625Q187B	3.625	4.000	0.187	10.09
18703625-250B	3.625	4.000	0.250	13.01
18703625-312B	3.625	4.000	0.312	13.01
18703625-375B	3.625	4.000	0.375	14.83
18703750Q187B	3.750	4.125	0.187	14.22
18703750-312B*	3.750	4.125	0.312	14.22

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18703750-375B	3.750	4.125	0.375	15.70
18703875-187B*	3.875	4.250	0.187	18.24
18703875-375B	3.875	4.250	0.375	16.32
18704000-187B	4.000	4.375	0.187	12.05
18704000-250B	4.000	4.375	0.250	14.16
18704000-312B	4.000	4.375	0.312	15.15
18704000-375B	4.000	4.375	0.375	16.51
18704000N375B/P	4.000	4.375	0.375	18.25
18704000Q375B/V	4.000	4.375	0.375	68.31
18704125Q187B*	4.125	4.500	0.187	17.48
18704125-250B	4.125	4.500	0.250	16.55
18704125-375B	4.125	4.500	0.375	17.11
18704250-281B	4.250	4.625	0.281	17.26
18704250-312B	4.250	4.625	0.312	17.22
18704250-375B	4.250	4.625	0.375	17.93
18704375-375B	4.375	4.750	0.375	18.11
18704500-187B	4.500	4.875	0.187	18.91
18704500-375B	4.500	4.875	0.375	19.78
18704500N375B/P	4.500	4.875	0.375	23.68
18704500Q375B/V	4.500	4.875	0.375	82.68
18704625-250B	4.625	5.000	0.250	18.89
18704625-312B*	4.625	5.000	0.312	18.89
18704625-375B	4.625	5.000	0.375	18.89
18704750-375B	4.750	5.125	0.375	19.45
18704875-375B	4.875	5.250	0.375	20.14
18705000-281B	5.000	5.375	0.281	20.60
18705000-375B	5.000	5.375	0.375	20.69
18705125Q187B	5.125	5.500	0.187	23.07
18705500-375B	5.500	5.875	0.375	24.62
18705500-375B/V	5.500	5.875	0.375	286.56
18705750Q375B*	5.750	6.125	0.375	25.04
18706000-375B	6.000	6.375	0.375	27.03
18707000-375B*	7.000	7.375	0.375	36.62
7/32" - Cross Section - 0.218"				
21802500Q218B*	2.500	2.937	0.218	9.80
21802562Q218B*	2.562	3.000	0.218	10.04
1/4" - Cross Section - 0.250"				
25000250-375B*	0.250	0.750	0.375	5.56
25000437-375B	0.437	0.937	0.375	5.56

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B SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25000478-375B*	0.478	0.978	0.375	5.56
25000500-375B*	0.500	1.000	0.375	5.51
25000562-375B*	0.562	1.062	0.375	5.63
25000625-312B*	0.625	1.125	0.312	6.41
25000625-375B	0.625	1.125	0.375	7.42
25000687-375B	0.687	1.187	0.375	5.28
25000750Q250B	0.750	1.250	0.250	5.28
25000750-375B	0.750	1.250	0.375	5.72
25000812-375B	0.812	1.312	0.375	6.56
25000875-250B*	0.875	1.375	0.250	5.38
25000875-312B*	0.875	1.375	0.312	5.49
25000875-375B	0.875	1.375	0.375	5.95
25001000-250B	1.000	1.500	0.250	5.17
25001000-375B	1.000	1.500	0.375	5.76
25001000Q375B/V	1.000	1.500	0.375	18.93
25001125-250B	1.125	1.625	0.250	7.58
25001125-375B	1.125	1.625	0.375	6.23
25001250-250B	1.250	1.750	0.250	5.48
25001250-375B	1.250	1.750	0.375	6.25
25001250N375B/P	1.250	1.750	0.375	12.28
25001250Q375B/V	1.250	1.750	0.375	22.92
25001312-375B	1.312	1.812	0.375	6.22
25001375-250B	1.375	1.875	0.250	6.20
25001375-375B	1.375	1.875	0.375	6.45
25001375N375B/P*	1.375	1.875	0.375	7.89
25001375Q375B/V	1.375	1.875	0.375	26.10
25001500-250B	1.500	2.000	0.250	6.36
25001500-312B	1.500	2.000	0.312	7.06
25001500-375B	1.500	2.000	0.375	7.09
25001500N375B/4651	1.500	2.000	0.375	15.03
25001500Q375B *	1.500	2.000	0.375	7.10
25001500Q375B/V	1.500	2.000	0.375	25.80
25001500-500B	1.500	2.000	0.500	7.42
25001625-375B	1.625	2.125	0.375	7.72
25001750-250B	1.750	2.250	0.250	11.03
25001750Q312B	1.750	2.250	0.312	8.57
25001750-375B	1.750	2.250	0.375	7.75
25001750N375B/NX	1.750	2.250	0.375	52.99
25001750Q375B *	1.750	2.250	0.375	7.76
25001750Q375B/V	1.750	2.250	0.375	28.43
25001750V375B/P	1.750	2.250	0.375	11.24
25001875-375B	1.875	2.375	0.375	8.50
25001937-375B	1.937	2.437	0.375	8.77
25002000-250B	2.000	2.500	0.250	7.75
25002000-312B	2.000	2.500	0.312	7.68

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25002000-375B	2.000	2.500	0.375	8.48
25002000N375B/P	2.000	2.500	0.375	9.58
25002000Q375B *	2.000	2.500	0.375	8.50
25002000Q375B/V	2.000	2.500	0.375	30.37
25002000V375B/F	2.000	2.500	0.375	21.11
25002000V375B/P	2.000	2.500	0.375	10.35
25002125-250B	2.125	2.625	0.250	8.78
25002125-375B	2.125	2.625	0.375	9.43
25002187-375B	2.187	2.687	0.375	10.02
25002250Q250B	2.250	2.750	0.250	10.32
25002250-375B	2.250	2.750	0.375	9.53
25002250N375B/P	2.250	2.750	0.375	34.59
25002250Q375B/V	2.250	2.750	0.375	34.85
25002375-375B	2.375	2.875	0.375	10.47
25002375-562B*	2.375	2.875	0.562	9.77
25002500-250B	2.500	3.000	0.250	9.31
25002500-250B/4615	2.500	3.000	0.250	14.13
25002500-312B	2.500	3.000	0.312	10.74
25002500-375B	2.500	3.000	0.375	10.48
25002500N375B/P	2.500	3.000	0.375	13.39
25002500Q250B	2.500	3.000	0.375	10.45
25002500Q375B *	2.500	3.000	0.375	10.51
25002500Q375B/V	2.500	3.000	0.375	38.32
25002500-500B	2.500	3.000	0.500	10.42
25002562-375B	2.562	3.062	0.375	10.99
25002625-375B	2.625	3.125	0.375	10.91
25002750-250B	2.750	3.250	0.250	10.13
25002750-375B	2.750	3.250	0.375	11.45
25002750N375B/4651	2.750	3.250	0.375	26.70
25002750N375B/P	2.750	3.250	0.375	25.21
25002750Q375B *	2.750	3.250	0.375	11.48
25002750Q375B/V	2.750	3.250	0.375	42.09
25002750-500B	2.750	3.250	0.500	11.55
25002875-375B	2.875	3.375	0.375	11.88
25003000-250B	3.000	3.500	0.250	10.86
25003000Q250B	3.000	3.500	0.250	10.95
25003000-375B	3.000	3.500	0.375	12.36
25003000N375B/P	3.000	3.500	0.375	13.77
25003000Q375B *	3.000	3.500	0.375	12.40
25003000Q375B/V	3.000	3.500	0.375	45.24
25003000V375B/P	3.000	3.500	0.375	16.32
25003000-500B	3.000	3.500	0.500	11.40
25003000-562B	3.000	3.500	0.562	11.40
25003125-250B	3.125	3.625	0.250	12.51
25003125-375B	3.125	3.625	0.375	15.29

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B SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25003250-375B	3.250	3.750	0.375	13.33
25003250N375B/P	3.250	3.750	0.375	14.72
25003250-500B	3.250	3.750	0.500	13.83
25003375-250B*	3.375	3.875	0.250	12.65
25003375-375B	3.375	3.875	0.375	12.64
25003375N375B/4651*	3.375	3.875	0.375	38.63
25003375-562B*	3.375	3.875	0.562	13.43
25003500-250B	3.500	4.000	0.250	13.03
25003500-312B	3.500	4.000	0.312	13.11
25003500-375B	3.500	4.000	0.375	14.27
25003500N375B/4651	3.500	4.000	0.375	25.11
25003500N375B/P	3.500	4.000	0.375	23.98
25003500N375B/U	3.500	4.000	0.375	31.94
25003500Q375B *	3.500	4.000	0.375	14.30
25003500Q375B/V	3.500	4.000	0.375	52.25
25003500V375B/P	3.500	4.000	0.375	24.98
25003500-500B	3.500	4.000	0.500	17.54
25003500-625B	3.500	4.000	0.625	20.14
25003625-375B	3.625	4.125	0.375	17.57
25003690-500B	3.690	4.190	0.500	18.403
25003750-250B	3.750	4.250	0.250	13.93
25003750-375B	3.750	4.250	0.375	15.10
25003750N375B/P	3.750	4.250	0.375	22.26
25003750Q500B	3.750	4.250	0.500	15.02
25003750-562B	3.750	4.250	0.562	15.02
25003875-375B	3.875	4.375	0.375	15.50
25004000-250B	4.000	4.500	0.250	14.02
25004000-375B	4.000	4.500	0.375	16.41
25004000N375B/4651*	4.000	4.500	0.375	25.13
25004000N375B/P	4.000	4.500	0.375	19.50
25004000Q375B *	4.000	4.500	0.375	16.46
25004000Q375B/V	4.000	4.500	0.375	57.69
25004000-500B	4.000	4.500	0.500	17.64
25004000-562B	4.000	4.500	0.562	16.41
25004000N562B/P	4.000	4.500	0.562	23.15
25004062-375B*	4.062	4.562	0.375	16.37
25004125-250B	4.125	4.625	0.250	16.44
25004125-375B*	4.125	4.625	0.375	17.83
25004125-562B	4.125	4.625	0.562	19.58
25004250-250B	4.250	4.750	0.250	18.47
25004250-375B	4.250	4.750	0.375	18.72
25004250N375B/P	4.250	4.750	0.375	38.97
25004250-562B	4.250	4.750	0.562	19.66
25004250Q562B *	4.250	4.750	0.562	19.71
25004250Q562B/V	4.250	4.750	0.562	71.94

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25004375-250B *	4.375	4.875	0.250	15.90
25004375-562B	4.375	4.875	0.562	19.26
25004375N562B/P*	4.375	4.875	0.562	21.36
25004437-375B	4.437	4.937	0.375	25.75
25004500-250B	4.500	5.000	0.250	18.32
25004500-250B/4615	4.500	5.000	0.250	24.10
25004500N250B/P	4.500	5.000	0.250	24.97
25004500-312B	4.500	5.000	0.312	19.38
25004500-375B	4.500	5.000	0.375	19.47
25004500N375B/P	4.500	5.000	0.375	23.22
25004500N375B/4651	4.500	5.000	0.375	29.33
25004500-500B	4.500	5.000	0.500	19.38
25004500-562B	4.500	5.000	0.562	19.47
25004500-562B/4615	4.500	5.000	0.562	26.11
25004500-562B/V	4.500	5.000	0.562	132.00
25004500N562B/P	4.500	5.000	0.562	23.22
25004500-625B	4.500	5.000	0.625	22.85
25004625-250B	4.625	5.125	0.250	16.02
25004625-562B	4.625	5.125	0.562	20.62
25004625N562B/4651*	4.625	5.125	0.562	45.69
25004625Q562B	4.625	5.125	0.562	22.00
25004750Q250B	4.750	5.250	0.250	16.56
25004750-375B	4.750	5.250	0.375	21.38
25004750-500B	4.750	5.250	0.500	21.16
25004750-562B	4.750	5.250	0.562	20.36
25004875-375B	4.875	5.375	0.375	21.31
25004875-562B	4.875	5.375	0.562	21.66
25005000-250B*	5.000	5.500	0.250	22.34
25005000-375B	5.000	5.500	0.375	22.53
25005000N375B/P	5.000	5.500	0.375	25.49
25005000Q375B/V	5.000	5.500	0.375	81.78
25005000-500B	5.000	5.500	0.500	22.41
25005000-562B	5.000	5.500	0.562	22.53
25005000N562B/P	5.000	5.500	0.562	31.24
25005250Q250B*	5.250	5.750	0.250	24.37
25005250-375B	5.250	5.750	0.375	25.51
25005250Q375B*	5.250	5.750	0.375	27.23
25005250-562B	5.250	5.750	0.562	25.51
25005250N562B/4651*	5.250	5.750	0.562	41.88
25005375-562B	5.375	5.875	0.562	24.39
25005437-375B	5.437	5.937	0.375	26.27
25005500-375B	5.500	6.000	0.375	25.56
25005500N375B/P	5.500	6.000	0.375	32.82
25005500Q375B/V	5.500	6.000	0.375	108.58
25005500-500B	5.500	6.000	0.500	24.77

*** : 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"				
25005500-562B	5.500	6.000	0.562	25.56
25005500N562B/P	5.500	6.000	0.562	32.82
25005625-562B	5.625	6.125	0.562	24.77
25005750-375B	5.750	6.250	0.375	28.49
25005750N375B/P	5.750	6.250	0.375	59.15
25005750-562B	5.750	6.250	0.562	28.64
25005750N562B/P*	5.750	6.250	0.562	62.44
25005750Q562B/V*	5.750	6.250	0.562	130.00
25006000-375B	6.000	6.500	0.375	26.72
25006000N375B/P	6.000	6.500	0.375	32.83
25006000-437B	6.000	6.500	0.437	28.32
25006000-500B	6.000	6.500	0.500	25.91
25006000-562B	6.000	6.500	0.562	28.20
25006000N562B/P*	6.000	6.500	0.562	31.27
25006250-375B	6.250	6.750	0.375	32.40
25006250-562B	6.250	6.750	0.562	40.86
25006500-250B*	6.500	7.000	0.250	22.63
25006500-375B	6.500	7.000	0.375	31.55
25006500N375B/P	6.500	7.000	0.375	36.91
25006500-500B	6.500	7.000	0.500	32.32
25006500-562B	6.500	7.000	0.562	30.28
25006500N562B/P	6.500	7.000	0.562	36.91
25006750-375B	6.750	7.250	0.375	31.40
25006750-500B	6.750	7.250	0.500	29.78
25006750-562B	6.750	7.250	0.562	30.93
25007000-375B	7.000	7.500	0.375	30.05
25007000-500B	7.000	7.500	0.500	30.17
25007000-562B	7.000	7.500	0.562	32.15
25007000N562B/4651*	7.000	7.500	0.562	76.05
25007000Q562B/V*	7.000	7.500	0.562	148.82
25007250-375B*	7.250	7.750	0.375	36.93
25007250N375B/4651	7.250	7.750	0.375	79.40
25007250-562B	7.250	7.750	0.562	41.07
25007250N562B/4651	7.250	7.750	0.562	79.40
25007500-250B	7.500	8.000	0.250	25.64
25007500-375B	7.500	8.000	0.375	32.60
25007500-500B	7.500	8.000	0.500	32.60
25007500-562B	7.500	8.000	0.562	37.15
25007750Q562B	7.750	8.250	0.562	41.59
25008000-375B	8.000	8.500	0.375	38.29
25008000-562B	8.000	8.500	0.562	39.68
25008000-562B/V*	8.000	8.500	0.562	423.69
25008000N562B/P	8.000	8.500	0.562	42.08
25008125-562B	8.125	8.625	0.562	40.46

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25008250-375B	8.250	8.750	0.375	39.91
25008250-437B*	8.250	8.750	0.437	56.55
25008250-562B	8.250	8.750	0.562	40.76
25008500-375B	8.500	9.000	0.375	39.91
25008500-500B	8.500	9.000	0.500	41.98
25008500-562B	8.500	9.000	0.562	42.48
25008500N562B/P	8.500	9.000	0.562	52.17
25009000-375B	9.000	9.500	0.375	57.25
25009000N375B/4651	9.000	9.500	0.375	77.60
25009000-562B	9.000	9.500	0.562	51.60
25009000N562B/4651	9.000	9.500	0.562	77.60
25009250-562B	9.250	9.750	0.562	45.53
25009500-562B	9.500	10.000	0.562	69.69
25009500Q562B*	9.500	10.000	0.562	46.70
25009750-375B*	9.750	10.250	0.375	48.04
25009750-562B	9.750	10.250	0.562	50.89
25010000-562B	10.000	10.500	0.562	67.82
25010000N562B/4651	10.000	10.500	0.562	99.78
25010250-562B*	10.250	10.750	0.562	71.57
25010500-375B	10.500	11.000	0.375	87.72
25010500-562B	10.500	11.000	0.562	89.63
25010750-562B	10.750	11.250	0.562	90.93
25011000-562B	11.000	11.500	0.562	93.20
25011250-375B*	11.250	11.750	0.375	97.95
25011250-562B*	11.250	11.750	0.562	101.26
25012500Q531B*	12.500	13.000	0.531	102.62
25012750-562B*	12.750	13.250	0.562	103.16
25013000-562B*	13.000	13.500	0.562	105.38
25013500-531B*	13.500	14.000	0.531	103.10
25015000-562B*	15.000	15.500	0.562	105.53
25021750-375B*	21.750	22.250	0.375	134.76
25022062-375B*	22.062	22.562	0.375	136.52
25023000-375B*	23.000	23.500	0.375	284.49
25023750-375B*	23.750	24.250	0.375	293.63
25024000-375B*	24.000	24.500	0.375	325.035
25025250-375B*	25.250	25.750	0.375	352.932
0.275" - Cross Section - 0.275"				
27501970-500B*	1.970	2.520	0.500	7.543
27502970-500B*	2.970	3.520	0.500	23.627
27503970-500B*	3.970	4.520	0.500	33.182
27504970-500B*	4.970	5.520	0.500	30.184

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

B SERIES - LOADED U-CUPS

9/32" - Cross Section - 0.281"

Ref.Number	Nominal Seal Dimensions d	D	H	$
28102200-500B*	2.200	2.770	0.500	12.220
28102250-375B*	2.250	2.812	0.375	14.368
28102937-500B*	2.937	3.500	0.500	15.355
28103187Q500B*	3.187	3.750	0.500	17.008
28103200-500B	3.200	3.770	0.500	16.884
28103437-500B*	3.437	4.000	0.500	25.150
28103937-500B*	3.937	4.500	0.500	25.150
28104437-500B	4.437	5.000	0.500	25.72
28104687-625B	4.687	5.250	0.625	26.10
28104937-343B*	4.937	5.500	0.343	27.38
28104937-500B*	4.937	5.500	0.500	29.62
28105000-346B/V	5.000	5.562	0.346	118.34
28105437-562B*	5.437	6.000	0.562	29.16
28105937-500B*	5.937	6.500	0.500	29.43
28106937-500B*	6.937	7.500	0.500	38.83
28108937-500B*	8.937	9.500	0.500	49.56

5/16" - Cross Section - 0.312

Ref.Number	Nominal Seal Dimensions d	D	H	$
31200353-375B*	0.353	0.977	0.375	8.63
31200750Q500B	0.750	1.375	0.500	7.19
31200812-500B*	0.812	1.437	0.500	6.75
31201000-375B	1.000	1.625	0.375	7.93
31201000-500B	1.000	1.625	0.500	6.68
31201125-312B	1.125	1.750	0.312	6.46
31201125Q375B	1.125	1.750	0.375	11.13
31201125-500B	1.125	1.750	0.500	6.75
31201250-312B	1.250	1.875	0.312	6.78
31201250-375B	1.250	1.875	0.375	7.13
31201250-500B	1.250	1.875	0.500	7.18
31201250Q500B/V*	1.250	1.875	0.500	30.06
31201375-312B *	1.375	2.000	0.312	7.13
31201375-375B	1.375	2.000	0.375	7.64
31201375-500B	1.375	2.000	0.500	7.46
31201375Q500B/V	1.375	2.000	0.500	28.59
31201437-500B*	1.437	2.062	0.500	8.27
31201500-312B	1.500	2.125	0.312	9.35
31201500-375B	1.500	2.125	0.375	8.56
31201500-437B*	1.500	2.125	0.437	9.91
31201500-500B	1.500	2.125	0.500	8.60
31201625-375B	1.625	2.250	0.375	9.04
31201625-500B	1.625	2.250	0.500	8.81
31201687Q500B*	1.687	2.312	0.500	9.73
31201750-375B	1.750	2.375	0.375	9.51

5/16" - Cross Section - 0.312

Ref.Number	Nominal Seal Dimensions d	D	H	$
31201750-500B	1.750	2.375	0.500	9.57
31201875-375B	1.875	2.500	0.375	9.93
31201875-500B	1.875	2.500	0.500	9.97
31202000-375B	2.000	2.625	0.375	12.11
31202000-500B	2.000	2.625	0.500	10.22
31202000N500B/P	2.000	2.625	0.500	12.51
31202000Q500B/V*	2.000	2.625	0.500	37.42
31202000-562B*	2.000	2.625	0.562	10.31
31202125-312B	2.125	2.750	0.312	10.17
31202125-500B	2.125	2.750	0.500	11.09
31202125-625B*	2.125	2.750	0.625	11.20
31202250-312B	2.250	2.875	0.312	11.74
31202250-500B	2.250	2.875	0.500	12.11
31202375-312B *	2.375	3.000	0.312	11.68
31202375-500B	2.375	3.000	0.500	11.72
31202500-375B	2.500	3.125	0.375	11.23
31202500-500B	2.500	3.125	0.500	12.21
31202500-500B/V	2.500	3.125	0.500	133.59
31202500N500B/P	2.500	3.125	0.500	16.37
31202625Q500B	2.625	3.250	0.500	27.83
31202750-375B	2.750	3.375	0.375	13.04
31202750-500B	2.750	3.375	0.500	13.27
31202750N500B/4651	2.750	3.375	0.500	15.63
31202875-500B	2.875	3.500	0.500	14.23
31203000Q312B*	3.000	3.625	0.312	13.47
31203000-375B	3.000	3.625	0.375	14.94
31203000-500B	3.000	3.625	0.500	14.33
31203000N500B/4651	3.000	3.625	0.500	41.01
31203000Q500B/V*	3.000	3.625	0.500	59.08
31203125-312B	3.125	3.750	0.312	13.52
31203125-500B	3.125	3.750	0.500	14.08
31203250-312B	3.250	3.875	0.312	14.50
31203250-500B	3.250	3.875	0.500	16.10
31203250N500B/4651*	3.250	3.875	0.500	35.95
31203375-312B *	3.375	4.000	0.312	15.61
31203375Q500B*	3.375	4.000	0.500	15.94
31203375-625B	3.375	4.000	0.625	16.11
31203500-375B	3.500	4.125	0.375	16.28
31203500-500B	3.500	4.125	0.500	17.40
31203500N500B/P	3.500	4.125	0.500	20.19
31203625-500B	3.625	4.250	0.500	17.83
31203750Q312B*	3.750	4.375	0.312	18.09
31203750-375B	3.750	4.375	0.375	17.57
31203750-500B	3.750	4.375	0.500	17.49
31203750N500B/P	3.750	4.375	0.500	20.98

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B SERIES - LOADED U-CUPS

5/16" - Cross Section - 0.312

Ref.Number	Nominal Seal Dimensions d	D	H	$
31203750-625B	3.750	4.375	0.625	19.16
31203875-500B	3.875	4.500	0.500	19.16
31204000N375B/4651	4.000	4.625	0.375	43.69
31204000-500B	4.000	4.625	0.500	17.33
31204000-562B	4.000	4.625	0.562	18.83
31204000N562B/P	4.000	4.625	0.562	24.69
31204125-500B*	4.125	4.750	0.500	18.91
31204125-562B*	4.125	4.750	0.562	19.16
31204125-625B	4.125	4.750	0.625	19.22
31204250-312B	4.250	4.875	0.312	19.45
31204250-500B	4.250	4.875	0.500	19.50
31204250-562B*	4.250	4.875	0.562	19.80
31204250N562B/4651*	4.250	4.875	0.562	46.51
31204375-312B	4.375	5.000	0.312	20.27
31204375-500B	4.375	5.000	0.500	21.22
31204375Q562B	4.375	5.000	0.562	22.31
31204375-625B	4.375	5.000	0.625	21.61
31204500-375B	4.500	5.125	0.375	21.69
31204500Q500B	4.500	5.125	0.500	21.97
31204500-562B	4.500	5.125	0.562	21.94
31204500-625B	4.500	5.125	0.625	21.35
31204625-625B	4.625	5.250	0.625	22.91
31204750-500B	4.750	5.375	0.500	20.89
31204750N500B/P*	4.750	5.375	0.500	26.42
31204750-625B	4.750	5.375	0.625	22.74
31205000-625B	5.000	5.625	0.625	25.61
31205125-625B	5.125	5.750	0.625	25.53
31205250-625B	5.250	5.875	0.625	27.37
31205375-312B	5.375	6.000	0.312	23.29
31205375-625B	5.375	6.000	0.625	27.15
31205500-312B	5.500	6.125	0.312	23.29
31205500-625B	5.500	6.125	0.625	28.41
31205625-625B	5.625	6.250	0.625	28.28
31205750-625B	5.750	6.375	0.625	31.05
31205750N625B/4651*	5.750	6.375	0.625	77.32
31206000-625B	6.000	6.625	0.625	31.14
31206375-625B	6.375	7.000	0.625	31.05
31206500-625B	6.500	7.125	0.625	34.42
31206625-625B	6.625	7.250	0.625	37.23
31206750-625B	6.750	7.375	0.625	36.38
31207000-625B	7.000	7.625	0.625	37.63
31207250-625B*	7.250	7.875	0.625	40.38
31207375Q312B	7.375	8.000	0.312	38.50
31207375-500B	7.375	8.000	0.500	44.40
31207375-625B	7.375	8.000	0.625	45.31

5/16" - Cross Section - 0.312

Ref.Number	Nominal Seal Dimensions d	D	H	$
31207875-625B	7.875	8.500	0.625	68.10
31208000-500B	8.000	8.625	0.500	49.77
31208000-625B	8.000	8.625	0.625	45.40
31208500-625B	8.500	9.125	0.625	45.80
31209125-625B*	9.125	9.750	0.625	49.92
31209250-625B*	9.250	9.875	0.625	54.10
31209375-625B	9.375	10.000	0.625	67.54
31209375N625B/4651*	9.375	10.000	0.625	116.38
31209625-625B*	9.625	10.250	0.625	75.30
31209750-625B*	9.750	10.375	0.625	90.71
31210375-625B*	10.375	11.000	0.625	93.11
31212500-625B*	12.500	13.125	0.625	96.33

3/8" - Cross Section - 0.375"

Ref.Number	Nominal Seal Dimensions d	D	H	$
37500812Q375B*	0.812	1.562	0.375	8.93
37501250Q375B	1.250	2.000	0.375	8.50
37501250-500B	1.250	2.000	0.500	9.50
37501250-625B	1.250	2.000	0.625	10.06
37501375-625B	1.375	2.125	0.625	17.03
37501500-500B	1.500	2.250	0.500	11.17
37501500-625B	1.500	2.250	0.625	11.93
37501625-375B*	1.625	2.375	0.375	11.13
37501625-625B	1.625	2.375	0.625	11.57
37501750-500B	1.750	2.500	0.500	11.50
37501750-625B	1.750	2.500	0.625	12.37
37501750Q625B/V*	1.750	2.500	0.625	49.59
37502000-375B	2.000	2.750	0.375	13.02
37502000-500B	2.000	2.750	0.500	14.37
37502000-625B	2.000	2.750	0.625	14.44
37502000N625B/P*	2.000	2.750	0.625	16.82
37502250Q375B	2.250	3.000	0.375	14.62
37502250-500B	2.250	3.000	0.500	16.19
37502250-625B	2.250	3.000	0.625	16.10
37502375-625B*	2.375	3.125	0.625	19.36
37502500-375B	2.500	3.250	0.375	15.86
37502500-500B	2.500	3.250	0.500	16.86
37502500-625B	2.500	3.250	0.625	16.94
37502500-625B/V*	2.500	3.250	0.625	232.62
37502625-625B	2.625	3.375	0.625	18.28
37502750-500B	2.750	3.500	0.500	18.89
37502750-625B	2.750	3.500	0.625	19.34
37502750Q625B/V*	2.750	3.500	0.625	70.85
37502875-625B	2.875	3.625	0.625	19.32

*** : 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"				
37503000-375B	3.000	3.750	0.375	20.62
37503000-500B	3.000	3.750	0.500	20.96
37503000Q500B*	3.000	3.750	0.500	21.11
37503000-625B	3.000	3.750	0.625	20.13
37503000N625B/P	3.000	3.750	0.625	22.30
37503000Q625B/V	3.000	3.750	0.625	73.51
37503125-375B*	3.125	3.875	0.375	19.67
37503125-625B	3.125	3.875	0.625	20.63
37503250-500B	3.250	4.000	0.500	21.26
37503250-625B	3.250	4.000	0.625	21.38
37503250N625B/P*	3.250	4.000	0.625	23.72
37503375-625B	3.375	4.125	0.625	21.89
37503500-500B	3.500	4.250	0.500	22.13
37503500-625B	3.500	4.250	0.625	22.88
37503500N625B/P	3.500	4.250	0.625	25.35
37503500Q625B/V	3.500	4.250	0.625	83.54
37503625-500B*	3.625	4.375	0.500	24.61
37503625-625B	3.625	4.375	0.625	23.71
37503750-375B*	3.750	4.500	0.375	21.79
37503750-500B	3.750	4.500	0.500	22.40
37503750-625B	3.750	4.500	0.625	25.99
37503750N625B/P	3.750	4.500	0.625	29.47
37503750Q625B/V*	3.750	4.500	0.625	89.08
37503875-625B	3.875	4.625	0.625	22.65
37504000-500B	4.000	4.750	0.500	24.11
37504000Q500B*	4.000	4.750	0.500	39.69
37504000-625B	4.000	4.750	0.625	25.83
37504000N625B/P	4.000	4.750	0.625	36.24
37504000Q625B/V	4.000	4.750	0.625	94.51
37504125-625B*	4.125	4.875	0.625	25.71
37504250-375B	4.250	5.000	0.375	24.68
37504250-500B	4.250	5.000	0.500	25.77
37504250-625B	4.250	5.000	0.625	27.04
37504250-625B/V	4.250	5.000	0.625	297.54
37504250N625B/P	4.250	5.000	0.625	32.67
37504375-625B	4.375	5.125	0.625	27.56
37504500-375B*	4.500	5.250	0.375	27.04
37504500-500B	4.500	5.250	0.500	27.17
37504500-625B	4.500	5.250	0.625	28.39
37504500N625B/P	4.500	5.250	0.625	32.97
37504500V625B/4651*	4.500	5.250	0.625	39.07
37504625-625B	4.625	5.375	0.625	28.73
37504750-375B	4.750	5.500	0.375	28.38
37504750Q375B*	4.750	5.500	0.375	28.39
37504750-500B	4.750	5.500	0.500	29.53

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37504750-625B	4.750	5.500	0.625	29.68
37504750N625B/P*	4.750	5.500	0.625	44.58
37504875Q375B*	4.875	5.625	0.375	39.82
37504875-625B	4.875	5.625	0.625	29.72
37505000Q375B*	5.000	5.750	0.375	29.48
37505000-500B	5.000	5.750	0.500	29.75
37505000-625B	5.000	5.750	0.625	31.10
37505000N625B/P	5.000	5.750	0.625	37.95
37505000Q625B/V	5.000	5.750	0.625	113.69
37505125-625B*	5.125	5.875	0.625	30.93
37505250-375B*	5.250	6.000	0.375	30.16
37505250-500B	5.250	6.000	0.500	32.39
37505250-625B	5.250	6.000	0.625	32.39
37505250N625B/P	5.250	6.000	0.625	48.30
37505250Q625B*	5.250	6.000	0.625	32.48
37505250-750B	5.250	6.000	0.750	32.48
37505375-625B*	5.375	6.125	0.625	31.04
37505500Q375B*	5.500	6.250	0.375	31.54
37505500-500B	5.500	6.250	0.500	32.21
37505500-625B	5.500	6.250	0.625	33.66
37505500N625B/P	5.500	6.250	0.625	42.49
37505500V625B/P*	5.500	6.250	0.625	57.44
37505625-625B	5.625	6.375	0.625	38.19
37505750-500B	5.750	6.500	0.500	36.38
37505750N500B/P*	5.750	6.500	0.500	40.56
37505750-625B	5.750	6.500	0.625	36.44
37505750N625B/P	5.750	6.500	0.625	42.56
37505750V625B/P*	5.750	6.500	0.625	53.79
37505875-625B*	5.875	6.625	0.625	37.91
37505875Q625B*	5.875	6.625	0.625	36.25
37506000Q375B*	6.000	6.750	0.375	35.59
37506000-500B	6.000	6.750	0.500	36.31
37506000-625B	6.000	6.750	0.625	36.02
37506000N625B/P*	6.000	6.750	0.625	44.05
37506000Q625B/V	6.000	6.750	0.625	142.92
37506000V625B/P	6.000	6.750	0.625	61.76
37506250-500B	6.250	7.000	0.500	36.46
37506250-625B	6.250	7.000	0.625	36.91
37506250N625B/P*	6.250	7.000	0.625	45.02
37506500Q375B	6.500	7.250	0.375	50.98
37506500-500B	6.500	7.250	0.500	37.99
37506500-625B	6.500	7.250	0.625	38.19
37506500N625B/P*	6.500	7.250	0.625	46.58
37506750-375B*	6.750	7.500	0.375	40.76
37506750-500B	6.750	7.500	0.500	38.53

*** : 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"				
37506750-625B	6.750	7.500	0.625	40.70
37506750N625B/F	6.750	7.500	0.625	135.04
37506875-625B*	6.875	7.625	0.625	39.98
37507000-500B	7.000	7.750	0.500	40.66
37507000N500B/4651*	7.000	7.750	0.500	89.89
37507000V500B/F*	7.000	7.750	0.500	103.44
37507000-625B	7.000	7.750	0.625	40.85
37507000N625B/P	7.000	7.750	0.625	49.85
37507250-375B	7.250	8.000	0.375	39.94
37507250-500B	7.250	8.000	0.500	39.30
37507250-625B	7.250	8.000	0.625	43.73
37507250N625B/P	7.250	8.000	0.625	49.04
37507250Q625B*	7.250	8.000	0.625	44.69
37507250-750B	7.250	8.000	0.750	46.28
37507375-500B	7.375	8.125	0.500	53.86
37507500-500B*	7.500	8.250	0.500	58.21
37507500-625B	7.500	8.250	0.625	47.75
37507500N625B/P*	7.500	8.250	0.625	51.72
37507750Q375B*	7.750	8.500	0.375	59.83
37507750-500B*	7.750	8.500	0.500	44.89
37507750-625B	7.750	8.500	0.625	46.60
37507790-375B*	7.790	8.540	0.375	47.46
37508000-625B	8.000	8.750	0.625	47.93
37508000N625B/4651	8.000	8.750	0.625	100.98
37508000Q625B/V*	8.000	8.750	0.625	199.39
37508250-625B	8.250	9.000	0.625	49.61
37508250N625B/P	8.250	9.000	0.625	57.30
37508500-625B	8.500	9.250	0.625	52.89
37508750-500B	8.750	9.500	0.500	54.52
37508750-750B*	8.750	9.500	0.750	57.94
37508795-375B*	8.795	9.545	0.375	78.20
37508875-625B*	8.875	9.625	0.625	54.86
37509000Q375B*	9.000	9.750	0.375	86.69
37509000-625B	9.000	9.750	0.625	57.81
37509000V625B/4651	9.000	9.750	0.625	151.12
37509250-625B	9.250	10.000	0.625	108.08
37509250Q625B	9.250	10.000	0.625	69.66
37509500-625B	9.500	10.250	0.625	74.09
37509500N625B/4651*	9.500	10.250	0.625	158.28
37509750-625B	9.750	10.500	0.625	71.56
37509750Q625B	9.750	10.500	0.625	80.77
37510000N625B/4651	10.000	10.750	0.625	141.31
37510000Q625B	10.000	10.750	0.625	85.67
37510250-500B*	10.250	11.000	0.500	89.54
37510250-750B	10.250	11.000	0.750	91.63

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
37510500Q375B*	10.500	11.250	0.375	98.64
37510500-625B*	10.500	11.250	0.625	101.00
37510750-625B	10.750	11.500	0.625	92.61
37510750N625B/4651*	10.750	11.500	0.625	206.79
37511000-625B	11.000	11.750	0.625	96.84
37511250-625B	11.250	12.000	0.625	99.88
37511500-625B	11.500	12.250	0.625	109.55
37511750-625B*	11.750	12.500	0.625	110.91
37511750-750B*	11.750	12.500	0.750	112.94
37512000-625B	12.000	12.750	0.625	114.15
37512000N625B/4651	12.000	12.750	0.625	178.58
37512250-625B	12.250	13.000	0.625	121.27
37512750-625B*	12.750	13.500	0.625	126.82
37513000-375B*	13.000	13.750	0.375	130.38
37513000-625B	13.000	13.750	0.625	133.55
37513500-625B*	13.500	14.250	0.625	146.95
37513750-625B*	13.750	14.500	0.625	155.27
37514250-625B*	14.250	15.000	0.625	168.84
37514750-625B*	14.750	15.500	0.625	170.75
37519250-625B*	19.250	20.000	0.625	175.84
37520750-500B*	20.750	21.500	0.500	187.81
7/16" - Cross Section - 0.437"				
43701125-500B	1.125	2.000	0.500	13.39
43702250-625B*	2.250	3.125	0.625	16.72
43702500-625B*	2.500	3.375	0.625	18.74
43703125-687B*	3.125	4.000	0.687	20.71
43703375-500B*	3.375	4.250	0.500	24.33
43703875-500B*	3.875	4.750	0.500	25.83
43703875-750B	3.875	4.750	0.750	26.04
43704000-625B	4.000	4.875	0.625	36.61
43704500-750B*	4.500	5.375	0.750	29.66
43704750-750B	4.750	5.625	0.750	41.56
43704875-562B*	4.875	5.750	0.562	43.05
43705000-750B	5.000	5.875	0.750	45.63
43713125-437B*	13.125	14.000	0.437	78.50
1/2" - Cross Section - 0.500"				
50001125-750B*	1.125	2.125	0.750	20.17
50001500-750B	1.500	2.500	0.750	20.33
50001750-750B	1.750	2.750	0.750	19.91

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B SERIES - LOADED U-CUPS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50001875-625B*	1.875	2.875	0.625	18.93
50002000Q500B	2.000	3.000	0.500	18.59
50002000-750B	2.000	3.000	0.750	19.64
50002375Q500B	2.375	3.375	0.500	20.25
50002500-750B	2.500	3.500	0.750	24.64
50003000-625B*	3.000	4.000	0.625	28.91
50003000-750B	3.000	4.000	0.750	29.87
50003250-750B	3.250	4.250	0.750	35.21
50003250Q750B*	3.250	4.250	0.750	33.36
50003375-625B*	3.375	4.375	0.625	35.87
50003500-750B	3.500	4.500	0.750	31.25
50003750-690B*	3.750	4.750	0.690	39.85
50003875-750B	3.875	4.875	0.750	42.21
50004000-750B	4.000	5.000	0.750	32.87
50004000V750B/F	4.000	5.000	0.750	83.78
50004250-750B	4.250	5.250	0.750	37.85
50004375-625B*	4.375	5.375	0.625	38.03
50004375Q750B	4.375	5.375	0.750	40.49
50004500-500B	4.500	5.500	0.500	40.60
50004500-750B	4.500	5.500	0.750	40.18
50004500N750B/P	4.500	5.500	0.750	50.22
50004750-687B*	4.750	5.750	0.687	42.76
50004750-750B	4.750	5.750	0.750	40.41
50005000Q500B	5.000	6.000	0.500	36.68
50005000-750B	5.000	6.000	0.750	42.84
50005250-500B*	5.250	6.250	0.500	50.18
50005250-750B	5.250	6.250	0.750	52.64
50005375Q750B*	5.375	6.375	0.750	50.77
50005500-750B	5.500	6.500	0.750	45.50
50005750-750B	5.750	6.750	0.750	58.22
50005750N750B/4651	5.750	6.750	0.750	115.67
50006000-500B	6.000	7.000	0.500	46.27
50006000-750B	6.000	7.000	0.750	49.48
50006000-750B/V*	6.000	7.000	0.750	597.69
50006000N750B/4651	6.000	7.000	0.750	103.58
50006250-750B	6.250	7.250	0.750	43.54
50006500N750B/4651	6.500	7.500	0.750	104.62
50006500Q750B*	6.500	7.500	0.750	48.05
50006750-750B	6.750	7.750	0.750	48.05
50006750N750B/4651*	6.750	7.750	0.750	116.15
50007000-750B	7.000	8.000	0.750	51.75
50007000N750B/4651	7.000	8.000	0.750	113.70
50007000Q750B/V	7.000	8.000	0.750	213.79
50007250-750B*	7.250	8.250	0.750	49.26
50007500-750B	7.500	8.500	0.750	57.97
50007500N750B/4651*	7.500	8.500	0.750	124.05

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
50007750-750B	7.750	8.750	0.750	52.48
50008000Q500B*	8.000	9.000	0.500	76.28
50008000N750B/4651	8.000	9.000	0.750	129.03
50008000Q750B*	8.000	9.000	0.750	58.84
50008000V750B/V	8.000	9.000	0.750	455.12
50008250-750B	8.250	9.250	0.750	63.18
50008500N750B/4651	8.500	9.500	0.750	136.91
50008500Q750B*	8.500	9.500	0.750	65.55
50008750-750B	8.750	9.750	0.750	66.41
50009000-750B	9.000	10.000	0.750	68.56
50009000N750B/4651	9.000	10.000	0.750	144.50
50009250-750B*	9.250	10.250	0.750	69.86
50009500-750B*	9.500	10.500	0.750	87.72
50009500N750B/4651*	9.500	10.500	0.750	153.22
50010000-750B	10.000	11.000	0.750	101.96
50010000N750B/4651	10.000	11.000	0.750	176.15
50010250-750B*	10.250	11.250	0.750	109.91
50010500-750B	10.500	11.500	0.750	107.79
50010625-750B*	10.625	11.625	0.750	105.20
50010750-750B*	10.750	11.750	0.750	111.80
50011000-750B	11.000	12.000	0.750	154.26
50011000N750B/4651*	11.000	12.000	0.750	263.05
50011375-750B	11.375	12.375	0.750	125.09
50011500-750B*	11.500	12.500	0.750	159.23
50011750-750B*	11.750	12.750	0.750	149.18
50012000Q750B	12.000	13.000	0.750	129.69
50012000V750B/4651	12.000	13.000	0.750	336.12
50012125-750B*	12.125	13.125	0.750	126.58
50012250-750B*	12.250	13.250	0.750	127.93
50012500-750B	12.500	13.500	0.750	130.41
50013000Q750B	13.000	14.000	0.750	177.56
50013250-750B*	13.250	14.250	0.750	169.97
50013500-750B	13.500	14.500	0.750	177.66
50014000Q750B	14.000	15.000	0.750	209.94
50014420-500B*	14.420	15.420	0.500	208.63
50014750-750B*	14.750	15.750	0.750	193.12
50015000-750B	15.000	16.000	0.750	212.63
50015000N750B/4651*	15.000	16.000	0.750	432.32
50015250-750B*	15.250	16.250	0.750	200.57
50015500-750B*	15.500	16.500	0.750	203.35
50015750Q750B	15.750	16.750	0.750	205.76
50016500-750B*	16.500	17.500	0.750	207.74
50016500Q750B*	16.500	17.500	0.750	251.27
50016750-750B*	16.750	17.750	0.750	210.68
50017000N750B/4651*	17.000	18.000	0.750	463.10
50017000Q750B	17.000	18.000	0.750	235.32

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B SERIES - LOADED U-CUPS

1/2" - Cross Section - 0.500"

Ref.Number	Nominal Seal Dimensions d	D	H	$
50017000Q750B/V*	17.000	18.000	0.750	858.28
50017500-750B	17.500	18.500	0.750	219.46
50018000-750B*	18.000	19.000	0.750	224.67
50019000Q750B*	19.000	20.000	0.750	235.08
50020000-750B	20.000	21.000	0.750	245.37
50020250-750B*	20.250	21.250	0.750	251.86
50021000-750B*	21.000	22.000	0.750	259.80
50022000-750B*	22.000	23.000	0.750	450.79
50024000-750B*	24.000	25.000	0.750	591.57
50024500-750B*	24.500	25.500	0.750	603.34
50024875-750B*	24.875	25.875	0.750	612.13
50026125-750B*	26.125	27.125	0.750	641.64
50026500-750B*	26.500	27.500	0.750	650.28
50029000-750B*	29.000	30.000	0.750	706.28
50029750-750B*	29.750	30.750	0.750	726.29
50030750-750B*	30.750	31.750	0.750	750.19
50031500-750B*	31.500	32.500	0.750	953.38
50038000-750B*	38.000	39.000	0.750	1380.48
50038250-750B*	38.250	39.250	0.750	1389.39
50038750-750B*	38.750	39.750	0.750	1407.00
50041000-750B*	41.000	42.000	0.750	1487.10
50041750-750B*	41.750	42.750	0.750	1490.64
50042000-750B*	42.000	43.000	0.750	1521.43
50043500-750B*	43.500	44.500	0.750	1591.64
50044125-750B*	44.125	45.125	0.750	1596.58
50046250-750B*	46.250	47.250	0.750	1697.68
50047500-750B*	47.500	48.500	0.750	1715.19

9/16" - Cross Section - 0.562"

56202375-875B*	2.375	3.500	0.875	23.00
56212562-875B*	12.562	13.687	0.875	132.10

5/8" - Cross Section - 0.625"

62502750-1000B*	2.750	4.000	1.000	29.26
62502875-1000B*	2.875	4.125	1.000	30.14
62503250-1000B*	3.250	4.500	1.000	31.69
62503750-1000B*	3.750	5.000	1.000	35.82
62504250-1000B	4.250	5.500	1.000	43.42
62505000-1000B	5.000	6.250	1.000	48.75
62505250-1000B*	5.250	6.500	1.000	48.25
62505500-1000B	5.500	6.750	1.000	52.91
62505750-1000B*	5.750	7.000	1.000	90.86

5/8" - Cross Section - 0.625"

Ref.Number	Nominal Seal Dimensions d	D	H	$
62506000-1000B	6.000	7.250	1.000	58.57
62506750-1000B*	6.750	8.000	1.000	62.86
62507000Q1000B	7.000	8.250	1.000	70.96
62507250-1000B*	7.250	8.500	1.000	76.09
62507500-1000B*	7.500	8.750	1.000	78.70
62507750-1000B*	7.750	9.000	1.000	79.33
62508250-1000B*	8.250	9.500	1.000	85.98
62508500Q1000B	8.500	9.750	1.000	115.31
62509000-1000B	9.000	10.250	1.000	93.14
62509000V1000B/4651*	9.000	10.250	1.000	229.26
62509750-1000B*	9.750	11.000	1.000	137.76
62510000-1000B*	10.000	11.250	1.000	130.17
62510500-750B	10.500	11.750	0.750	150.70
62511000-1000B	11.000	12.250	1.000	160.55
62511250Q1000B	11.250	12.500	1.000	165.96
62511500-1000B	11.500	12.750	1.000	167.72
62511750-1000B	11.750	13.000	1.000	163.92
62512000-1000B*	12.000	13.250	1.000	167.42
62512250-1000B*	12.250	13.500	1.000	169.96
62513500-875B*	13.500	14.750	0.875	217.13
62514000-1000B*	14.000	15.250	1.000	225.80
62514750Q1000B*	14.750	16.000	1.000	268.28
62515500Q1000B*	15.500	16.750	1.000	257.92
62517750-1000B*	17.750	19.000	1.000	308.76
62518000-1000B*	18.000	19.250	1.000	433.94
62518750-1000B*	18.750	20.000	1.000	323.98
62519000-1250B*	19.000	20.250	1.250	336.75
62519750-1000B*	19.750	21.000	1.000	340.12
62530000-1000B*	30.000	31.250	1.000	993.57

3/4" - Cross Section - 0.750"

75003500-750B*	3.500	5.000	0.750	47.39
75008000-1125B*	8.000	9.500	1.125	95.57
75008000-1250B*	8.000	9.500	1.250	95.57
75008500-1125B*	8.500	10.000	1.125	100.97
75009000Q1250B	9.000	10.500	1.250	140.21
75009750-1250B*	9.750	11.250	1.250	156.11
75010000Q1250B	10.000	11.500	1.250	159.93
75010500-1000B	10.500	12.000	1.000	167.17
75011500-1250B*	11.500	13.000	1.250	182.23
75012000-1250B	12.000	13.500	1.250	190.03
75012500-1250B*	12.500	14.000	1.250	230.10
75013000-1000B*	13.000	14.500	1.000	256.35
75014000Q1250B	14.000	15.500	1.250	277.09

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

B SERIES - LOADED U-CUPS

3/4" - Cross Section - 0.750"

Ref.Number	Nominal Seal Dimensions d	D	H	$
75015625-1250B*	15.625	17.125	1.250	350.03
75017375-1250B*	17.375	18.875	1.250	383.78
75017625-1250B*	17.625	19.125	1.250	388.37
75019000-1250B*	19.000	20.500	1.250	415.59
75020000-1000B*	20.000	21.500	1.000	346.95
75020000Q1250B*	20.000	21.500	1.250	434.84
75020500-1000B*	20.500	22.000	1.000	355.55
75023500-1250B*	23.500	25.000	1.250	1003.12

7/8" - Cross Section - 0.875"

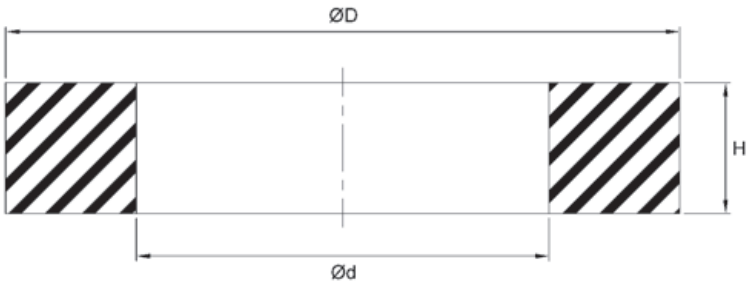
Ref.Number	Nominal Seal Dimensions d	D	H	$
87519937-1375B*	19.937	21.687	1.375	467.04
87536000-1375B*	36.000	37.750	1.375	2411.54

1" - Cross Section - 1.000"

Ref.Number	Nominal Seal Dimensions d	D	H	$
10012000-1500B*	12.000	14.000	1.500	305.47
10015000-1500B*	15.000	17.000	1.500	467.67
10016000-1250B*	16.000	18.000	1.250	426.28
10017500-1500B*	17.500	19.500	1.500	544.43
10021250-1500B*	21.250	23.250	1.500	1263.61
10024000-1500B*	24.000	26.000	1.500	1386.18
10026000-1500B*	26.000	28.000	1.500	1481.44
10029000-1500B*	29.000	31.000	1.500	1614.48
10030000-1500B*	30.000	32.000	1.500	1664.77
10030000N1500B/4651*	30.000	32.000	1.500	2247.44
10033375-1500B*	33.375	35.375	1.500	2721.88

Modular Backup

Urethane 65D



Temperature: -65/200F [-54/93C]

Pressure: 5000 PSI [345 BAR]

1/8" - Cross Section - 0.125"

Ref.Number	Nominal Seal Dimensions d	D	H	$
12500125MB*	0.125	0.375	0.125	4.87
12500250MB*	0.250	0.500	0.125	4.87
12500282MB*	0.282	0.532	0.125	4.88
12500312MB*	0.312	0.562	0.125	4.87
12500375MB*	0.375	0.625	0.125	4.87
12500430MB*	0.430	0.680	0.125	4.88
12500500MB	0.500	0.750	0.125	4.87
12500625MB	0.625	0.875	0.125	4.99
12500687MB*	0.687	0.937	0.125	5.06
12500812MB*	0.812	1.062	0.125	5.38
12500937MB*	0.937	1.187	0.125	5.50

1/8" - Cross Section - 0.125"

Ref.Number	Nominal Seal Dimensions d	D	H	$
12501000MB*	1.000	1.250	0.125	5.59
12501062MB*	1.062	1.312	0.125	5.80
12501250MB*	1.250	1.500	0.125	6.13
12501375MB	1.375	1.625	0.125	6.29
12501500MB*	1.500	1.750	0.125	6.57
12502500MB*	2.500	2.750	0.125	8.96

3/16" - Cross Section - 0.187"

Ref.Number	Nominal Seal Dimensions d	D	H	$
18700500MB*	0.500	0.875	0.187	5.06

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

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
18700625MB*	0.625	1.000	0.187	5.43
18701000MB*	1.000	1.375	0.187	6.27
18701250MB	1.250	1.625	0.187	6.80
18701312MB*	1.312	1.687	0.187	6.99
18701500MB	1.500	1.875	0.187	7.27
18701625MB*	1.625	2.000	0.187	7.46
18701750MB*	1.750	2.125	0.187	7.77
18701875MB	1.875	2.250	0.187	7.88
18701937MB*	1.937	2.312	0.187	7.99
18702000MB	2.000	2.375	0.187	8.01
18702125MB	2.125	2.500	0.187	8.25
18702250MB*	2.250	2.625	0.187	8.40
18702375MB*	2.375	2.750	0.187	8.74
18702500MB	2.500	2.875	0.187	8.81
18702625MB	2.625	3.000	0.187	9.13
18702750MB	2.750	3.125	0.187	9.55
18702875MB*	2.875	3.250	0.187	9.95
18703000MB*	3.000	3.375	0.187	10.14
18703125MB*	3.125	3.500	0.187	10.81
18703250MB*	3.250	3.625	0.187	11.37
18703375MB*	3.375	3.750	0.187	12.39
18703500MB*	3.500	3.875	0.187	12.68
18703625MB	3.625	4.000	0.187	13.28
18703750MB*	3.750	4.125	0.187	13.59
18703812MB*	3.812	4.187	0.187	14.32
18703875MB*	3.875	4.250	0.187	14.59
18704000MB*	4.000	4.375	0.187	16.52
18704125MB*	4.125	4.500	0.187	19.32
18705125MB*	5.125	5.500	0.187	23.02
7/32" - Cross Section - 0.218"				
21800750MB*	0.750	1.187	0.218	6.62
1/4" - Cross Section - 0.250"				
25000353MB*	0.353	0.853	0.250	6.62
25000478MB*	0.478	0.978	0.250	6.62
25000500MB*	0.500	1.000	0.250	6.62
25000625MB*	0.625	1.125	0.250	6.62
25000750MB	0.750	1.250	0.250	6.62
25000875MB*	0.875	1.375	0.250	6.73
25001000MB	1.000	1.500	0.250	6.87
25001062MB*	1.062	1.562	0.250	6.99

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
25001250MB	1.250	1.750	0.250	8.01
25001312MB*	1.312	1.812	0.250	7.46
25001375MB	1.375	1.875	0.250	8.76
25001500MB	1.500	2.000	0.250	7.83
25001562MB*	1.562	2.062	0.250	9.54
25001750MB	1.750	2.250	0.250	9.64
25001875MB*	1.875	2.375	0.250	9.67
25002000MB	2.000	2.500	0.250	10.45
25002000MB/4651*	2.000	2.500	0.250	15.59
25002125MB*	2.125	2.625	0.250	10.54
25002250MB	2.250	2.750	0.250	11.63
25002500MB	2.500	3.000	0.250	12.75
25002625MB*	2.625	3.125	0.250	13.19
25002750MB	2.750	3.250	0.250	13.33
25002875MB*	2.875	3.375	0.250	13.86
25003000MB	3.000	3.500	0.250	12.93
25003250MB	3.250	3.750	0.250	13.66
25003375MB*	3.375	3.875	0.250	15.89
25003500MB	3.500	4.000	0.250	13.85
25003625MB*	3.625	4.125	0.250	14.85
25003750MB	3.750	4.250	0.250	17.50
25004000MB	4.000	4.500	0.250	18.21
25004125MB*	4.125	4.625	0.250	19.01
25004250MB	4.250	4.750	0.250	19.53
25004500MB	4.500	5.000	0.250	20.92
25004625MB*	4.625	5.125	0.250	21.38
25004750MB*	4.750	5.250	0.250	21.41
25005000MB	5.000	5.500	0.250	21.20
25005250-187MB*	5.250	5.750	0.187	23.67
25005250MB*	5.250	5.750	0.250	23.67
25005500MB	5.500	6.000	0.250	27.10
25006000MB	6.000	6.500	0.250	29.91
25006500MB*	6.500	7.000	0.250	31.49
25007250MB*	7.250	7.750	0.250	31.43
25007500MB*	7.500	8.000	0.250	32.48
25007750MB*	7.750	8.250	0.250	33.48
25009625MB*	9.625	10.125	0.250	39.91
25009750MB*	9.750	10.250	0.250	42.94
25010000MB*	10.000	10.500	0.250	44.34
25010750MB*	10.750	11.250	0.250	48.19
25013000MB*	13.000	13.500	0.250	65.66
9/32" - Cross Section - 0.281"				
28102250MB*	2.250	2.812	0.281	11.23

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

MB SERIES - AU 65D

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
9/32" - Cross Section - 0.281"				
28102437MB*	2.437	3.000	0.281	13.91
28108000MB*	8.000	8.562	0.281	35.98
5/16" - Cross Section - 0.312"				
31200353MB*	0.353	0.978	0.312	7.50
31200812MB*	0.812	1.437	0.312	7.97
31201000MB*	1.000	1.625	0.312	8.18
31201250MB	1.250	1.875	0.312	8.25
31201375MB*	1.375	2.000	0.312	9.06
31201500MB	1.500	2.125	0.312	9.69
31201625MB*	1.625	2.250	0.312	10.37
31201750MB	1.750	2.375	0.312	9.00
31201875MB*	1.875	2.500	0.312	10.76
31202000MB	2.000	2.625	0.312	10.06
31202125MB*	2.125	2.750	0.312	10.57
31202250MB	2.250	2.875	0.312	11.07
31202312MB*	2.312	2.937	0.312	13.75
31202375MB	2.375	3.000	0.312	14.38
31202500MB	2.500	3.125	0.312	15.86
31202625MB*	2.625	3.250	0.312	16.66
31202875MB*	2.875	3.500	0.312	16.96
31203000MB	3.000	3.625	0.312	17.17
31203125MB*	3.125	3.750	0.312	17.73
31203500MB	3.500	4.125	0.312	19.85
31203750MB*	3.750	4.375	0.312	21.09
31203875MB*	3.875	4.500	0.312	23.16
31204125MB*	4.125	4.750	0.312	23.23
31204250MB*	4.250	4.875	0.312	24.65
31204375MB*	4.375	5.000	0.312	26.26
31204500MB	4.500	5.125	0.312	24.22
31204875MB*	4.875	5.500	0.312	26.41
31205000MB*	5.000	5.625	0.312	29.07
31205375MB*	5.375	6.000	0.312	29.52
31205500MB*	5.500	6.125	0.312	34.27
31208000MB*	8.000	8.625	0.312	41.29
11/32" - Cross Section - 0.343"				
34301312MB*	1.312	2.000	0.343	12.02

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
0.345" - Cross Section - 0.345"				
34502000MB*	2.000	2.690	0.345	17.11
3/8" - Cross Section - 0.375"				
37500875MB*	0.875	1.625	0.375	10.44
37501000MB*	1.000	1.750	0.375	10.63
37501250MB*	1.250	2.000	0.375	11.67
37501375MB*	1.375	2.125	0.375	12.40
37501500MB*	1.500	2.250	0.375	17.35
37501625MB*	1.625	2.375	0.375	14.12
37501750MB*	1.750	2.500	0.375	15.10
37501750-562MB	1.750	2.500	0.562	17.02
37501875MB*	1.875	2.625	0.375	15.80
37502000MB	2.000	2.750	0.375	17.62
37502250MB	2.250	3.000	0.375	18.45
37502375MB*	2.375	3.125	0.375	19.25
37502500MB	2.500	3.250	0.375	19.95
37502625MB	2.625	3.375	0.375	25.05
37502625-570MB	2.625	3.375	0.570	24.58
37502750MB	2.750	3.500	0.375	21.90
37502750-250MB*	2.750	3.500	0.250	18.11
37503000MB	3.000	3.750	0.375	21.13
37503125MB*	3.125	3.875	0.375	24.58
37503250MB	3.250	4.000	0.375	25.35
37503375MB*	3.375	4.125	0.375	26.38
37503500MB	3.500	4.250	0.375	30.27
37503500-250MB	3.500	4.250	0.250	26.10
37503625-562MB	3.625	4.375	0.562	32.62
37503750MB	3.750	4.500	0.375	28.71
37503875MB*	3.875	4.625	0.375	29.66
37504000MB	4.000	4.750	0.375	36.03
37504125MB*	4.125	4.875	0.375	31.43
37504250MB	4.250	5.000	0.375	36.79
37504375MB*	4.375	5.125	0.375	33.13
37504500-250MB*	4.500	5.250	0.250	34.07
37504500MB	4.500	5.250	0.375	34.07
37504500MB/4651*	4.500	5.250	0.375	55.16
37504500-500MB	4.500	5.250	0.500	39.20
37504750MB	4.750	5.500	0.375	42.13
37504875MB*	4.875	5.625	0.375	36.56
37505000-250MB	5.000	5.750	0.250	37.51
37505000MB	5.000	5.750	0.375	44.09
37505250MB	5.250	6.000	0.375	39.38
37505375MB*	5.375	6.125	0.375	40.12

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

MB SERIES - AU 65D

3/8" - Cross Section - 0.375"

Ref.Number	Nominal Seal Dimensions d	D	H	$
37505500MB*	5.500	6.250	0.375	47.03
37505875MB*	5.875	6.625	0.375	43.55
37506000MB	6.000	6.750	0.375	44.27
37506250MB	6.250	7.000	0.375	44.81
37506250MB/4651*	6.250	7.000	0.375	68.76
37506500MB	6.500	7.250	0.375	55.02
37507000MB*	7.000	7.750	0.375	54.05
37507250MB	7.250	8.000	0.375	50.45
37507500MB*	7.500	8.250	0.375	51.94
37507750MB*	7.750	8.500	0.375	53.31
37508500MB*	8.500	9.250	0.375	59.46
37509000MB	9.000	9.750	0.375	60.86
37509250MB	9.250	10.000	0.375	62.26
37509750MB*	9.750	10.500	0.375	65.36
37510000MB	10.000	10.750	0.375	67.11
37510000MB/4651*	10.000	10.750	0.375	113.53
37510500MB*	10.500	11.250	0.375	69.86
37511000MB	11.000	11.750	0.375	72.89
37511250MB	11.250	12.000	0.375	74.47
37512250MB*	12.250	13.000	0.375	104.05

7/16" - Cross Section - 0.437"

43701000MB*	1.000	1.875	0.437	10.77
43702125MB*	2.125	3.000	0.437	18.76
43702125-875MB*	2.125	3.000	0.875	20.69
43702250-375MB*	2.250	3.125	0.375	17.22
43703875-226MB*	3.875	4.750	0.226	31.43
43703875-266MB*	3.875	4.750	0.266	33.01
43704750-312MB*	4.750	5.625	0.312	28.84
43705000MB	5.000	5.875	0.437	39.45

1/2" - Cross Section - 0.500"

50001250MB*	1.250	2.250	0.500	20.88
50002000MB*	2.000	3.000	0.500	23.37
50002250MB*	2.250	3.250	0.500	25.61
50002375MB*	2.375	3.375	0.500	26.80
50002500MB	2.500	3.500	0.500	27.98
50002750MB*	2.750	3.750	0.500	30.31
50003000MB	3.000	4.000	0.500	38.02
50003500MB*	3.500	4.500	0.500	36.96
50003750MB*	3.750	4.750	0.500	39.26

1/2" - Cross Section - 0.500"

Ref.Number	Nominal Seal Dimensions d	D	H	$
50004000MB*	4.000	5.000	0.500	41.87
50004250MB*	4.250	5.250	0.500	44.18
50004500MB	4.500	5.500	0.500	46.44
50004750MB*	4.750	5.750	0.500	49.83
50005000MB	5.000	6.000	0.500	51.08
50005250MB	5.250	6.250	0.500	52.19
50005500MB*	5.500	6.500	0.500	55.48
50006000MB	6.000	7.000	0.500	58.30
50006500MB*	6.500	7.500	0.500	60.12
50006750MB*	6.750	7.750	0.500	61.45
50007000MB	7.000	8.000	0.500	62.89
50007000MB/4651*	7.000	8.000	0.500	101.99
50007250MB*	7.250	8.250	0.500	64.31
50008000MB	8.000	9.000	0.500	70.16
50008500MB	8.500	9.500	0.500	74.10
50009000MB	9.000	10.000	0.500	78.06
50009500MB	9.500	10.500	0.500	82.32
50010000MB	10.000	11.000	0.500	86.63
50010500MB	10.500	11.500	0.500	90.83
50011500MB	11.500	12.500	0.500	99.29
50012000MB*	12.000	13.000	0.500	103.50
50013500MB*	13.500	14.500	0.500	134.59
50015000MB*	15.000	16.000	0.500	163.43
50017000MB*	17.000	18.000	0.500	176.41
50019000MB*	19.000	20.000	0.500	195.24
50021000MB*	21.000	22.000	0.500	214.60
50029000MB*	29.000	30.000	0.500	583.46

5/8" - Cross Section - 0.625"

62502000MB*	2.000	3.250	0.625	28.52
62502500MB*	2.500	3.750	0.625	33.76
62502750MB*	2.750	4.000	0.625	36.47
62503000MB*	3.000	4.250	0.625	38.73
62503250MB*	3.250	4.500	0.625	41.08
62504625MB*	4.625	5.875	0.625	55.48
62504750MB*	4.750	6.000	0.625	56.97
62506750MB*	6.750	8.000	0.625	80.32
62507000MB*	7.000	8.250	0.625	82.81
62512750MB*	12.750	14.000	0.625	163.57
62530000MB*	30.000	31.250	0.625	769.47

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

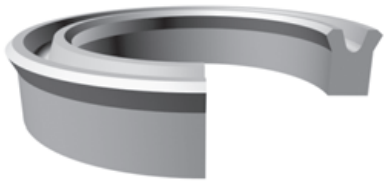
MB SERIES - AU 65D

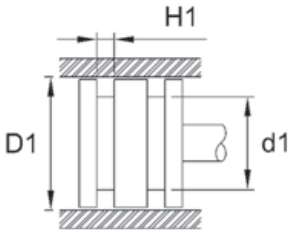
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/4" - Cross Section - 0.750"				
75006000MB*	6.000	7.500	0.750	84.86
75006500MB*	6.500	8.000	0.750	89.01
75007500MB*	7.500	9.000	0.750	101.45
75008000MB*	8.000	9.500	0.750	107.70
75008500MB*	8.500	10.000	0.750	113.71
75009812MB*	9.812	11.312	0.750	130.58

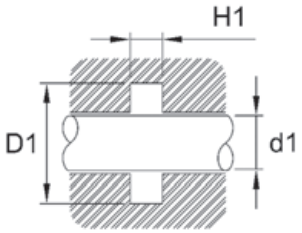
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
7/8" - Cross Section - 0.875"				
87536000MB*	36.000	37.750	0.875	1901.44
1" - Cross Section - 1.000"				
10030000MB*	30.000	32.000	1.000	1371.53

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

US - Rod/Piston Seals







STD Polyurethane AU 90A — **Temp.: -4/212F [-20/100C]** — **Pressure: 5000 PSI [345 BAR]**
601 Hythane 93A — **Temp.: -49/230F [-45/110C]** — **Pressure: 5000 PSI [345 BAR]**
9250 Polyurethane AU 92A — **Temp.: -40/212F [-40/100C]** — **Pressure: 6000 PSI [415 BAR]**
4615 Polyurethane AU 92A — **Temp.: -65/200F [-53/94C]** — **Pressure: 5000 PSI [310 BAR]**

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	+.015/-.000
0.250”	+.003/-.000	+.000/-.003	+.015/-.000
0.312”	+.003/-.000	+.000/-.004	+.015/-.000
0.375”	+.004/-.000	+.000/-.005	+.015/-.000
0.437”	+.005/-.000	+.000/-.006	+.015/-.000
0.500”	+.005/-.000	+.000/-.007	+.015/-.000
0.562”	+.006/-.000	+.000/-.008	+.015/-.000
0.625”	+.006/-.000	+.000/-.009	+.015/-.000
0.750”	+.007/-.000	+.000/-.010	+.015/-.000
0.875”	+.008/-.000	+.000/-.011	+.015/-.000
1.000”	+.009/-.000	+.000/-.012	+.015/-.000

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	+.015/-.000
0.250”	+.000/-.002	+.003/-.000	+.015/-.000
0.312”	+.000/-.002	+.004/-.000	+.015/-.000
0.375”	+.000/-.002	+.005/-.000	+.015/-.000
0.437”	+.000/-.003	+.006/-.000	+.015/-.000
0.500”	+.000/-.003	+.007/-.000	+.015/-.000
0.625”	+.000/-.003	+.009/-.000	+.015/-.000
0.750”	+.000/-.004	+.011/-.000	+.015/-.000
1.000”	+.000/-.005	+.015/-.000	+.015/-.000

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing 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	---	8.63*	---	---
3/32” - Cross Section - 0.093”										
US09300562-093	0.562	0.562	0.750	0.093	0.750	0.125	4.17*	---	---	4.63
1/8” - Cross Section - 0.125”										
US12500093	0.093	0.093	0.343	0.125	0.343	0.156	3.85*	---	---	4.28*

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

US SERIES - AU

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/8" - Cross Section - 0.125"										
US12500125	0.125	0.125	0.375	0.125	0.375	0.156	---	6.43*	---	---
US12500125-187	0.125	0.125	0.375	0.187	0.375	0.218	---	6.52*	---	---
US12500125-250	0.125	0.125	0.375	0.250	0.375	0.281	---	6.43*	---	---
US12500187	0.187	0.187	0.437	0.125	0.437	0.156	---	6.31*	---	---
US12500187-187	0.187	0.187	0.437	0.187	0.437	0.218	---	6.62	---	---
US12500187-250	0.187	0.187	0.437	0.250	0.437	0.281	---	6.31*	---	---
US12500250	0.250	0.250	0.500	0.125	0.500	0.156	---	6.52*	---	---
US12500250-187	0.250	0.250	0.500	0.187	0.500	0.218	---	6.07*	---	---
US12500250-250	0.250	0.250	0.500	0.250	0.500	0.281	3.95*	6.62*	---	4.39
US12500312	0.312	0.312	0.562	0.125	0.562	0.156	3.95*	6.71*	---	4.38*
US12500312-187	0.312	0.312	0.562	0.187	0.562	0.218	---	6.71*	---	---
US12500312-250	0.312	0.312	0.562	0.250	0.562	0.281	3.95*	7.65	---	4.38*
US12500375	0.375	0.375	0.625	0.125	0.625	0.156	---	6.09*	---	---
US12500375-187	0.375	0.375	0.625	0.187	0.625	0.218	---	7.00	---	---
US12500375-250	0.375	0.375	0.625	0.250	0.625	0.281	4.01*	6.99*	---	4.45
US12500437	0.437	0.437	0.687	0.125	0.687	0.156	---	3.02	---	---
US12500437-187	0.437	0.437	0.687	0.187	0.687	0.218	4.08*	7.58*	---	4.53
US12500437-250	0.437	0.437	0.687	0.250	0.687	0.281	---	7.77*	---	---
US12500500	0.500	0.500	0.750	0.125	0.750	0.156	4.74*	6.36*	---	5.27
US12500500-187	0.500	0.500	0.750	0.187	0.750	0.218	---	7.19*	---	---
US12500500-250	0.500	0.500	0.750	0.250	0.750	0.281	4.74*	7.19	5.01	5.27*
US12500562	0.562	0.562	0.812	0.125	0.812	0.156	---	6.03*	---	---
US12500562-187	0.562	0.562	0.812	0.187	0.812	0.218	---	7.38*	---	---
US12500562-250	0.562	0.562	0.812	0.250	0.812	0.281	---	7.48*	---	---
US12500625-120	0.625	0.625	0.875	0.120	0.875	0.151	---	7.58*	---	---
US12500625	0.625	0.625	0.875	0.125	0.875	0.156	4.89*	6.76	---	5.44*
US12500625-187	0.625	0.625	0.875	0.187	0.875	0.218	4.89*	7.58*	---	5.44*
US12500625-250	0.625	0.625	0.875	0.250	0.875	0.281	4.89*	6.76*	---	5.44*
US12500687	0.687	0.687	0.937	0.125	0.937	0.156	---	7.77*	---	---
US12500750	0.750	0.750	1.000	0.125	1.000	0.156	5.08	7.00*	---	5.65*
US12500750-160	0.750	0.750	1.000	0.160	1.000	0.191	---	7.77*	---	---
US12500750-187	0.750	0.750	1.000	0.187	1.000	0.218	5.08*	7.00*	---	5.65
US12500750-250	0.750	0.750	1.000	0.250	1.000	0.281	5.11*	7.00	---	---
US12500812	0.812	0.812	1.063	0.125	1.063	0.156	---	7.48*	---	---
US12500812-250	0.812	0.812	1.062	0.250	1.062	0.281	5.26*	8.06*	---	5.84*
US12500875	0.875	0.875	1.125	0.125	1.125	0.156	---	7.28	---	---
US12500875-172	0.875	0.875	1.125	0.172	1.125	0.203	5.27*	7.28*	---	5.85*
US12500875-187	0.875	0.875	1.125	0.187	1.125	0.218	---	8.15*	---	---
US12500875-250	0.875	0.875	1.125	0.250	1.125	0.281	5.40*	7.28	---	6.00*
US12500937	0.937	0.937	1.187	0.125	1.187	0.156	---	6.81*	---	---
US12500937-160	0.937	0.937	1.187	0.160	1.187	0.191	---	8.06*	---	---
US12500937-187	0.937	0.937	1.187	0.187	1.187	0.218	---	8.15*	---	---
US12500937-250	0.937	0.937	1.187	0.250	1.187	0.281	---	8.34*	---	---
US12501000	1.000	1.000	1.250	0.125	1.250	0.156	4.73*	7.60*	---	5.26*

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/8" - Cross Section - 0.125"										
US12501000-156	1.000	1.000	1.250	0.156	1.250	0.187	---	10.92*	---	---
US12501000-187	1.000	1.000	1.250	0.187	1.250	0.218	---	7.60	---	---
US12501000-250	1.000	1.000	1.250	0.250	1.250	0.281	4.73*	7.60*	---	5.26
US12501125	1.125	1.125	1.375	0.125	1.375	0.156	---	7.91	---	---
US12501125-187	1.125	1.125	1.375	0.187	1.375	0.218	4.90*	8.73*	---	5.44*
US12501125-250	1.125	1.125	1.375	0.250	1.375	0.281	---	7.91*	---	---
US12501250	1.250	1.250	1.500	0.125	1.500	0.156	5.03*	8.73	---	5.59*
US12501250-187	1.250	1.250	1.500	0.187	1.500	0.218	5.32*	---	---	5.91
US12501250-250	1.250	1.250	1.500	0.250	1.500	0.281	5.32*	8.73*	---	5.91
US12501312-250	1.312	1.312	1.563	0.250	1.563	0.281	---	9.00*	---	---
US12501375-156	1.375	1.375	1.625	0.156	1.625	0.187	5.47*	---	---	6.07*
US12501375-187	1.375	1.375	1.625	0.187	1.625	0.218	5.53*	---	---	6.14*
US12501375-250	1.375	1.375	1.625	0.250	1.625	0.281	---	9.28*	---	---
US12501500-187	1.500	1.500	1.750	0.187	1.750	0.218	5.61*	---	---	6.23
US12501500-250	1.500	1.500	1.750	0.250	1.750	0.281	5.68*	9.49*	---	6.31
US12501750	1.750	1.750	2.000	0.125	2.000	0.156	5.96*	---	---	6.62*
US12504750-187	4.750	4.750	5.000	0.187	5.000	0.218	17.78*	---	---	---
5/32" - Cross Section - 0.156"										
US15600187-187	0.187	0.187	0.500	0.187	0.500	0.218	---	6.71	---	---
US15601000-218	1.000	1.000	1.312	0.219	1.312	0.250	---	---	---	---
US15601375-218	1.375	1.375	1.688	0.219	1.688	0.250	---	---	---	---
3/16" - Cross Section - 0.187"										
US18700250	0.250	0.250	0.625	0.187	0.625	0.218	---	6.81	---	---
US18700250-250	0.250	0.250	0.625	0.250	0.625	0.281	---	7.15*	---	---
US18700250-312	0.250	0.250	0.625	0.312	0.625	0.343	4.03*	7.15*	---	4.48*
US18700375	0.375	0.375	0.750	0.187	0.750	0.218	4.19*	7.00*	---	4.66*
US18700375-250	0.375	0.375	0.750	0.250	0.750	0.281	---	7.10	---	---
US18700375-312	0.375	0.375	0.750	0.312	0.750	0.343	4.27*	7.18*	---	4.75*
US18700500	0.500	0.500	0.875	0.187	0.875	0.218	---	8.66	---	---
US18700500-197	0.500	0.500	0.875	0.197	0.875	0.228	---	---	5.69*	---
US18700500-250	0.500	0.500	0.875	0.250	0.875	0.281	4.30*	7.67*	---	4.78
US18700500-312	0.500	0.500	0.875	0.312	0.875	0.343	4.41*	7.21*	---	4.90*
US18700562	0.562	0.562	0.937	0.187	0.937	0.218	---	7.74*	---	---
US18700562-250	0.562	0.562	0.937	0.250	0.937	0.281	---	7.77*	---	---
US18700562-312	0.562	0.562	0.937	0.312	0.937	0.343	---	7.10*	---	---
US18700625	0.625	0.625	1.000	0.187	1.000	0.218	---	7.46*	5.12*	---
US18700625-250	0.625	0.625	1.000	0.250	1.000	0.281	4.70*	7.46*	---	5.23
US18700625-312	0.625	0.625	1.000	0.312	1.000	0.343	4.70*	8.10*	---	5.23*

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US SERIES - AU

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/16" - Cross Section - 0.187"										
US18700750	0.750	0.750	1.125	0.187	1.125	0.218	---	7.66*	---	---
US18700750-250	0.750	0.750	1.125	0.250	1.125	0.281	---	7.66*	---	---
US18700750-312	0.750	0.750	1.125	0.312	1.125	0.343	4.84*	8.15*	---	5.38*
US18700812-250	0.812	0.812	1.187	0.250	1.187	0.281	---	8.06*	---	---
US18700812-312	0.812	0.812	1.187	0.312	1.187	0.343	5.06*	8.06*	---	5.63*
US18700875	0.875	0.875	1.250	0.187	1.250	0.218	---	7.86*	---	---
US18700875-250	0.875	0.875	1.250	0.250	1.250	0.281	5.18*	7.85*	---	5.75
US18700875-312	0.875	0.875	1.250	0.312	1.250	0.343	5.27*	8.44*	---	5.85*
US18700875-375	0.875	0.875	1.250	0.375	1.250	0.406	---	8.63*	---	---
US18700937	0.937	0.937	1.312	0.187	1.312	0.218	---	8.15*	---	---
US18700937-312	0.937	0.937	1.312	0.312	1.312	0.343	---	8.54*	---	---
US18701000	1.000	1.000	1.375	0.187	1.375	0.218	5.38*	7.94*	---	5.97
US18701000-250	1.000	1.000	1.375	0.250	1.375	0.281	---	7.94	---	---
US18701000-312	1.000	1.000	1.375	0.312	1.375	0.343	5.38*	7.94	---	5.97*
US18701062-250	1.063	1.063	1.438	0.250	1.438	0.281	---	8.63*	---	---
US18701062-312	1.063	1.063	1.438	0.312	1.438	0.343	---	9.30*	---	---
US18701125	1.125	1.125	1.500	0.187	1.500	0.218	5.44*	8.10*	---	6.05
US18701125-250	1.125	1.125	1.500	0.250	1.500	0.281	5.50*	8.10*	---	6.12
US18701125-312	1.125	1.125	1.500	0.312	1.500	0.343	---	8.74	---	---
US18701250	1.250	1.250	1.625	0.187	1.625	0.218	---	8.82*	---	---
US18701250-250	1.250	1.250	1.625	0.250	1.625	0.281	---	8.94*	---	---
US18701250-312	1.250	1.250	1.625	0.312	1.625	0.343	---	10.36	---	---
US18701250-375	1.250	1.250	1.625	0.375	1.625	0.406	5.58*	---	---	6.20*
US18701312-312	1.312	1.312	1.687	0.312	1.687	0.343	5.93*	9.88*	---	6.58*
US18701375-250	1.375	1.375	1.750	0.250	1.750	0.281	---	10.31	---	---
US18701375-312	1.375	1.375	1.750	0.312	1.750	0.343	6.14*	10.31*	---	6.82
US18701375-375	1.375	1.375	1.750	0.375	1.750	0.406	---	---	6.61*	---
US18701437-250	1.438	1.438	1.813	0.250	1.813	0.281	---	10.31*	---	---
US18701437-312	1.438	1.438	1.813	0.312	1.813	0.343	---	10.36*	---	---
US18701500	1.500	1.500	1.875	0.187	1.875	0.218	6.21*	10.54*	---	6.90
US18701500-250	1.500	1.500	1.875	0.250	1.875	0.281	---	10.54*	---	---
US18701500-312	1.500	1.500	1.875	0.312	1.875	0.343	6.29*	10.54*	---	6.99
US18701500-375	1.500	1.500	1.875	0.375	1.875	0.406	6.37*	10.54	---	7.08*
US18701625	1.625	1.625	2.000	0.187	2.000	0.218	6.38*	---	---	7.09
US18701625-250	1.625	1.625	2.000	0.250	2.000	0.281	6.47*	11.34	---	7.18
US18701625-312	1.625	1.625	2.000	0.312	2.000	0.343	6.55*	11.34	---	7.28
US18701625-375	1.625	1.625	2.000	0.375	2.000	0.406	6.64*	11.34	---	7.38*
US18701750	1.750	1.750	2.125	0.187	2.125	0.218	6.68*	11.64*	---	7.42*
US18701750-250	1.750	1.750	2.125	0.250	2.125	0.281	6.78*	11.75*	---	7.53
US18701750-312	1.750	1.750	2.125	0.312	2.125	0.343	6.87*	11.75*	---	7.63*
US18701750-375	1.750	1.750	2.125	0.375	2.125	0.406	6.96*	11.75	---	7.74*
US18701875	1.875	1.875	2.250	0.187	2.250	0.218	---	12.76*	---	---
US18701875-280	1.875	1.875	2.250	0.280	2.250	0.311	7.06*	---	---	7.84*
US18701875-312	1.875	1.875	2.250	0.312	2.250	0.343	---	12.76	---	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/16" - Cross Section - 0.187"										
US18701875-375	1.875	1.875	2.250	0.375	2.250	0.406	---	12.76	---	---
US18702000-250	2.000	2.000	2.375	0.250	2.375	0.281	7.31*	13.94	---	8.13
US18702000-281	2.000	2.000	2.375	0.281	2.375	0.312	---	13.94*	---	---
US18702000-312	2.000	2.000	2.375	0.312	2.375	0.343	7.31*	13.94	---	8.13*
US18702000-375	2.000	2.000	2.375	0.375	2.375	0.406	7.31*	13.94*	---	8.13
US18702125	2.125	2.125	2.500	0.187	2.500	0.218	7.77*	12.51	---	8.63*
US18702125-250	2.125	2.125	2.500	0.250	2.500	0.281	---	12.51*	9.08	---
US18702125-312	2.125	2.125	2.500	0.312	2.500	0.343	7.77*	14.65*	---	8.63
US18702125-375	2.125	2.125	2.500	0.375	2.500	0.406	---	14.65	---	---
US18702250	2.250	2.250	2.625	0.187	2.625	0.218	---	14.82*	---	---
US18702250-312	2.250	2.250	2.625	0.312	2.625	0.343	8.23*	14.83*	---	9.14
US18702250-375	2.250	2.250	2.625	0.375	2.625	0.406	---	14.83*	---	---
US18702375-375	2.375	2.375	2.750	0.375	2.750	0.406	---	15.59	---	---
US18702500-250	2.500	2.500	2.875	0.250	2.875	0.281	---	16.87	---	---
US18702500-312	2.500	2.500	2.875	0.312	2.875	0.343	9.14*	---	---	10.16*
US18702500-375	2.500	2.500	2.875	0.375	2.875	0.406	9.14*	16.87*	---	10.16
US18702625-250	2.625	2.625	3.000	0.250	3.000	0.281	---	17.37*	9.73	---
US18702625-281	2.625	2.625	3.000	0.281	3.000	0.312	---	17.38*	---	---
US18702625-312	2.625	2.625	3.000	0.312	3.000	0.343	---	17.38*	---	---
US18702625-375	2.625	2.625	3.000	0.375	3.000	0.406	9.60*	17.37	---	10.66*
US18702875	2.875	2.875	3.250	0.187	3.250	0.218	---	17.55*	---	---
US18702875-250	2.875	2.875	3.250	0.250	3.250	0.281	---	17.55	---	---
US18702875-375	2.875	2.875	3.250	0.375	3.250	0.406	---	17.55*	---	---
US18703000-375	3.000	3.000	3.375	0.375	3.375	0.406	9.87*	17.76	---	10.97*
US18703125-375	3.125	3.125	3.500	0.375	3.500	0.406	10.85*	17.99	---	12.06*
US18703250-375	3.250	3.250	3.625	0.375	3.625	0.406	---	18.12	---	---
US18703375-375	3.375	3.375	3.750	0.375	3.750	0.406	---	18.12*	---	---
US18703500-375	3.500	3.500	3.875	0.375	3.875	0.406	12.80*	18.74	---	14.22*
US18703625	3.625	3.625	4.000	0.187	4.000	0.218	13.25*	---	---	14.73*
US18703625-250	3.625	3.625	4.000	0.250	4.000	0.281	13.25*	25.34	---	14.73*
US18703625-375	3.625	3.625	4.000	0.375	4.000	0.406	13.25*	26.12*	---	14.73
US18703750-375	3.750	3.750	4.125	0.375	4.125	0.406	---	22.80*	---	---
US18703875-375	3.875	3.875	4.250	0.375	4.250	0.406	14.45*	33.19*	---	16.06*
US18704000-375	4.000	4.000	4.375	0.375	4.375	0.406	15.14*	23.43*	---	16.82*
US18704375-375	4.375	4.375	4.750	0.375	4.750	0.406	---	24.27*	---	---
US18704500-375	4.500	4.500	4.875	0.375	4.875	0.406	---	33.09*	---	---
US18705000-375	5.000	5.000	5.375	0.375	5.375	0.406	19.00*	---	---	21.11*
US18705375-375	5.375	5.375	5.750	0.375	5.750	0.406	---	40.76*	---	---
US18705500-375	5.500	5.500	5.875	0.375	5.875	0.406	21.77*	43.16*	---	24.18*
US18700187-312	0.187	0.187	0.562	0.312	0.562	0.343	4.02*	---	---	4.47*
US18700437-250	0.437	0.437	0.812	0.250	0.812	0.281	---	7.39	---	---
US18700687-312	0.687	0.687	1.063	0.312	1.063	0.343	---	7.96*	---	---
US18701187-312	1.187	1.187	1.563	0.312	1.563	0.343	---	9.59*	---	---

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

US SERIES - AU

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
7/32" - Cross Section - 0.219"										
US21903000-375	3.000	3.000	3.438	0.375	3.438	0.406	---	25.32*	---	---
0.235" - Cross Section - 0.235"										
US23501422-250	1.422	1.422	1.891	0.250	1.891	0.281	---	11.32*	---	---
1/4" - Cross Section - 0.250"										
US25000250	0.250	0.250	0.750	0.250	0.750	0.281	---	8.63*	---	---
US25000250-312	0.250	0.250	0.750	0.312	0.750	0.343	5.16*	9.01*	---	5.74*
US25000250-375	0.250	0.250	0.750	0.375	0.750	0.406	---	9.40*	---	---
US25000312	0.312	0.312	0.812	0.250	0.812	0.281	---	8.63*	---	---
US25000312-312	0.312	0.312	0.812	0.312	0.812	0.343	5.35*	---	---	5.94*
US25000312-375	0.312	0.312	0.812	0.375	0.812	0.406	5.35*	---	---	5.94*
US25000375	0.375	0.375	0.875	0.250	0.875	0.281	---	8.63*	---	---
US25000375-312	0.375	0.375	0.875	0.312	0.875	0.343	5.42*	8.92*	---	6.02*
US25000375-375	0.375	0.375	0.875	0.375	0.875	0.406	---	9.11*	---	---
US25000500	0.500	0.500	1.000	0.250	1.000	0.281	5.57*	6.58*	5.69*	6.19*
US25000500-357	0.500	0.500	1.000	0.357	1.000	0.388	---	8.44*	---	---
US25000500-375	0.500	0.500	1.000	0.375	1.000	0.406	---	6.58*	---	---
US25000562	0.562	0.562	1.062	0.250	1.062	0.281	5.69*	---	---	6.32*
US25000625	0.625	0.625	1.125	0.250	1.125	0.281	---	6.85*	5.69	---
US25000625-375	0.625	0.625	1.125	0.375	1.125	0.406	5.81*	6.85	---	6.45*
US25000687	0.687	0.687	1.187	0.250	1.187	0.281	---	8.63*	---	---
US25000687-375	0.687	0.687	1.187	0.375	1.187	0.406	---	11.59*	---	---
US25000750	0.750	0.750	1.250	0.250	1.250	0.281	5.88*	7.14*	5.12*	6.54*
US25000750-375	0.750	0.750	1.250	0.375	1.250	0.406	5.88*	7.14*	---	6.54*
US25000812	0.812	0.812	1.312	0.250	1.312	0.281	---	8.63*	---	---
US25000812-375	0.812	0.812	1.312	0.375	1.312	0.406	---	9.21*	---	---
US25000875	0.875	0.875	1.375	0.250	1.375	0.281	---	7.42*	---	---
US25000875-312	0.875	0.875	1.375	0.312	1.375	0.343	---	9.40*	---	---
US25000875-375	0.875	0.875	1.375	0.375	1.375	0.406	---	7.42*	---	---
US25000937	0.937	0.937	1.438	0.250	1.438	0.281	---	7.96*	---	---
US25001000	1.000	1.000	1.500	0.250	1.500	0.281	5.38*	7.72*	6.36	5.97*
US25001000-312	1.000	1.000	1.500	0.312	1.500	0.343	---	7.72*	---	---
US25001000-375	1.000	1.000	1.500	0.375	1.500	0.406	5.38*	7.72*	---	5.97
US25001062	1.062	1.062	1.565	0.250	1.565	0.281	---	10.84*	---	---
US25001125	1.125	1.125	1.625	0.250	1.625	0.281	5.50*	9.21*	---	6.12*
US25001125-281	1.125	1.125	1.625	0.281	1.625	0.312	---	9.59*	---	---
US25001125-312	1.125	1.125	1.625	0.312	1.625	0.343	---	7.98*	---	---
US25001125-375	1.125	1.125	1.625	0.375	1.625	0.406	---	7.98	---	---
US25001187	1.187	1.187	1.687	0.250	1.687	0.281	5.62*	8.64	---	6.24

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

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/4" - Cross Section - 0.250"										
US25001187-312	1.187	1.187	1.688	0.312	1.688	0.343	---	9.78	---	---
US25001250	1.250	1.250	1.750	0.250	1.750	0.281	5.91*	9.52*	6.56	6.57*
US25001250-312	1.250	1.250	1.750	0.312	1.750	0.343	---	9.52*	---	---
US25001250-375	1.250	1.250	1.750	0.375	1.750	0.406	5.91*	9.52*	6.56	6.57*
US25001312-375	1.312	1.312	1.813	0.375	1.813	0.406	---	10.69*	---	---
US25001375	1.375	1.375	1.875	0.250	1.875	0.281	---	10.68*	---	---
US25001375-312	1.375	1.375	1.875	0.312	1.875	0.343	---	10.79*	---	---
US25001375-375	1.375	1.375	1.875	0.375	1.875	0.406	6.51*	10.68	---	7.23*
US25001500	1.500	1.500	2.000	0.250	2.000	0.281	6.57*	11.34	7.72*	---
US25001500-312	1.500	1.500	2.000	0.312	2.000	0.343	6.78*	11.34	---	7.53
US25001500-375	1.500	1.500	2.000	0.375	2.000	0.406	6.78*	11.34	7.71	7.53*
US25001625-375	1.625	1.625	2.125	0.375	2.125	0.406	---	12.47*	---	---
US25001750	1.750	1.750	2.250	0.250	2.250	0.281	---	12.76*	8.52	---
US25001750-312	1.750	1.750	2.250	0.312	2.250	0.343	---	12.76*	---	---
US25001750-375	1.750	1.750	2.250	0.375	2.250	0.406	7.53*	12.76	8.52	8.36*
US25002000	2.000	2.000	2.500	0.250	2.500	0.281	---	14.65	---	---
US25002000-375	2.000	2.000	2.500	0.375	2.500	0.406	7.74*	14.65	9.33	8.60*
US25002125	2.125	2.125	2.625	0.250	2.625	0.281	---	14.96*	---	---
US25002125-375	2.125	2.125	2.625	0.375	2.625	0.406	---	15.40*	9.72	---
US25002250-312	2.250	2.250	2.750	0.312	2.750	0.343	---	15.59	---	---
US25002250-375	2.250	2.250	2.750	0.375	2.750	0.406	8.71*	15.59	---	9.68*
US25002375-375	2.375	2.375	2.875	0.375	2.875	0.406	9.19*	15.85*	---	10.22*
US25002500	2.500	2.500	3.000	0.250	3.000	0.281	---	16.85	---	---
US25002500-312	2.500	2.500	3.000	0.312	3.000	0.343	9.68*	16.85*	---	10.75
US25002500-375	2.500	2.500	3.000	0.375	3.000	0.406	9.68*	16.85	11.46	10.75*
US25002625	2.625	2.625	3.125	0.250	3.125	0.281	---	18.70*	---	---
US25002625-375	2.625	2.625	3.125	0.375	3.125	0.406	---	17.13	12.26	---
US25002750	2.750	2.750	3.250	0.250	3.250	0.281	10.65*	19.18	---	11.83*
US25002750-375	2.750	2.750	3.250	0.375	3.250	0.406	10.65*	17.19	---	11.83*
US25002875-375	2.875	2.875	3.375	0.375	3.375	0.406	---	17.28*	---	---
US25003000	3.000	3.000	3.500	0.250	3.500	0.281	---	18.12	---	---
US25003000-375	3.000	3.000	3.500	0.375	3.500	0.406	11.61*	18.18	---	12.90*
US25003250-375	3.250	3.250	3.750	0.375	3.750	0.406	12.58*	18.45	---	13.98*
US25003375-375	3.375	3.375	3.875	0.375	3.875	0.406	---	18.45*	---	---
US25003500	3.500	3.500	4.000	0.250	4.000	0.281	---	19.63	---	---
US25003500-312	3.500	3.500	4.000	0.312	4.000	0.343	---	24.93	---	---
US25003500-375	3.500	3.500	4.000	0.375	4.000	0.406	13.55*	19.63	---	15.06*
US25003500-500	3.500	3.500	4.000	0.500	4.000	0.531	---	39.81*	---	---
US25003625-375	3.625	3.625	4.125	0.375	4.125	0.406	---	20.29*	---	---
US25003750-375	3.750	3.750	4.250	0.375	4.250	0.406	14.52*	20.68	---	16.13
US25004000-312	4.000	4.000	4.500	0.312	4.500	0.343	---	25.51*	---	---
US25004000-375	4.000	4.000	4.500	0.375	4.500	0.406	15.14*	27.43	---	16.82*
US25004000-500	4.000	4.000	4.500	0.500	4.500	0.531	---	26.37*	---	---
US25004000-511	4.000	4.000	4.500	0.511	4.500	0.542	---	---	17.55*	---

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US SERIES - AU

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/4" - Cross Section - 0.250"										
US25004000-562	4.000	4.000	4.500	0.562	4.500	0.593	---	23.66*	---	---
US25004125-562	4.125	4.125	4.625	0.562	4.625	0.593	---	23.86*	---	---
US25004250-375	4.250	4.250	4.750	0.375	4.750	0.406	---	24.69*	---	---
US25004250-562	4.250	4.250	4.750	0.562	4.750	0.593	16.09*	30.02*	---	17.88*
US25004500-375	4.500	4.500	5.000	0.375	5.000	0.406	17.03*	26.76*	---	18.93
US25004500-500	4.500	4.500	5.000	0.500	5.000	0.531	---	26.76*	---	---
US25004500-562	4.500	4.500	5.000	0.562	5.000	0.593	17.03*	26.76*	---	18.93*
US25004750-375	4.750	4.750	5.250	0.375	5.250	0.406	---	28.18	---	---
US25004750-562	4.750	4.750	5.250	0.562	5.250	0.593	---	28.18*	---	---
US25005000-375	5.000	5.000	5.500	0.375	5.500	0.406	20.43*	---	---	22.70*
US25005250-562	5.250	5.250	5.750	0.562	5.750	0.593	---	32.41*	---	---
US25005375-375	5.375	5.375	5.875	0.375	5.875	0.406	---	33.99*	---	---
US25005500-375	5.500	5.500	6.000	0.375	6.000	0.406	21.35*	---	---	23.72
US25005625-375	5.625	5.625	6.125	0.375	6.125	0.406	---	37.40*	---	---
US25005750-562	5.750	5.750	6.250	0.562	6.250	0.593	23.97*	---	---	26.63
US25005750-625	5.750	5.750	6.250	0.625	6.250	0.656	---	45.65*	---	---
US25005875-562	5.875	5.875	6.375	0.562	6.375	0.593	---	46.61*	---	---
US25006000-375	6.000	6.000	6.500	0.375	6.500	0.406	---	49.64*	---	---
US25006000-562	6.000	6.000	6.500	0.562	6.500	0.593	25.04*	49.64*	---	27.82*
US25006250-500	6.250	6.250	6.750	0.500	6.750	0.531	---	51.49*	---	---
US25006250-562	6.250	6.250	6.750	0.562	6.750	0.593	---	49.10*	---	---
US25006500-375	6.500	6.500	7.000	0.375	7.000	0.406	---	87.75	---	---
US25006500-500	6.500	6.500	7.000	0.500	7.000	0.531	---	54.14*	---	---
US25006500-562	6.500	6.500	7.000	0.562	7.000	0.593	27.12*	51.12*	---	30.14*
US25006750-562	6.750	6.750	7.250	0.562	7.250	0.593	---	53.32*	---	---
US25007000-562	7.000	7.000	7.500	0.562	7.500	0.593	---	58.08*	---	---
US25007250-562	7.250	7.250	7.750	0.562	7.750	0.593	---	59.75*	---	---
US25007500	7.500	7.500	8.000	0.250	8.000	0.281	31.94*	---	---	35.49
US25007500-562	7.500	7.500	8.000	0.562	8.000	0.593	31.94*	60.99*	---	35.49*
US25007750-562	7.750	7.750	8.250	0.562	8.250	0.593	---	61.86*	---	---
US25008000-562	8.000	8.000	8.500	0.562	8.500	0.593	---	64.16*	---	---
US25008500-375	8.500	8.500	9.000	0.375	9.000	0.406	---	64.54*	---	---
US25008500-562	8.500	8.500	9.000	0.562	9.000	0.593	---	68.48*	---	---
5/16" - Cross Section - 0.312"										
US31201250	1.250	1.250	1.875	0.312	1.875	0.343	---	11.03*	---	---
US31201250-375	1.250	1.250	1.875	0.375	1.875	0.406	6.78*	10.09*	---	7.53
US31201250-500	1.250	1.250	1.875	0.500	1.875	0.531	---	10.09*	---	---
US31201375-266	1.375	1.375	2.000	0.266	2.000	0.297	---	---	8.13*	---
US31201375	1.375	1.375	2.000	0.312	2.000	0.343	7.10*	11.34*	---	7.89
US31201375-375	1.375	1.375	2.000	0.375	2.000	0.406	---	11.34*	---	---
US31201437-500	1.438	1.438	2.063	0.500	2.063	0.531	---	21.10*	---	---

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Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
5/16" - Cross Section - 0.312"										
US31201500-300	1.500	1.500	2.125	0.300	2.125	0.331	---	---	7.39*	---
US31201500	1.500	1.500	2.125	0.312	2.125	0.343	7.74*	---	---	8.60*
US31201500-375	1.500	1.500	2.125	0.375	2.125	0.406	---	11.75*	---	---
US31201500-437	1.500	1.500	2.125	0.437	2.125	0.468	---	13.62*	---	---
US31201500-500	1.500	1.500	2.125	0.500	2.125	0.531	---	14.10*	---	---
US31201625	1.625	1.625	2.250	0.312	2.250	0.343	---	13.43*	---	---
US31201625-375	1.625	1.625	2.250	0.375	2.250	0.406	---	12.76	---	---
US31201750-266	1.750	1.750	2.375	0.266	2.375	0.297	---	---	8.73*	---
US31201750	1.750	1.750	2.375	0.312	2.375	0.343	8.58*	14.10	---	9.54*
US31201750-375	1.750	1.750	2.375	0.375	2.375	0.406	---	13.31*	---	---
US31201750-437	1.750	1.750	2.375	0.437	2.375	0.468	---	14.48*	---	---
US31201750-500	1.750	1.750	2.375	0.500	2.375	0.531	---	13.31	---	---
US31201750-562	1.750	1.750	2.375	0.562	2.375	0.593	---	---	8.73*	---
US31201875	1.875	1.875	2.500	0.312	2.500	0.343	9.19*	15.06	---	10.22*
US31201875-375	1.875	1.875	2.500	0.375	2.500	0.406	---	13.94	---	---
US31201875-437	1.875	1.875	2.500	0.437	2.500	0.468	---	16.02*	---	---
US31201875-500	1.875	1.875	2.500	0.500	2.500	0.531	9.19*	13.94*	---	10.22*
US31202000	2.000	2.000	2.625	0.312	2.625	0.343	---	14.20*	---	---
US31202000-375	2.000	2.000	2.625	0.375	2.625	0.406	9.64*	14.20	---	10.71*
US31202000-500	2.000	2.000	2.625	0.500	2.625	0.531	---	17.35*	11.24*	---
US31202000-562	2.000	2.000	2.625	0.562	2.625	0.593	---	---	11.24*	---
US31202125	2.125	2.125	2.750	0.312	2.750	0.343	---	18.12*	---	---
US31202125-375	2.125	2.125	2.750	0.375	2.750	0.406	---	14.61*	---	---
US31202125-500	2.125	2.125	2.750	0.500	2.750	0.531	---	20.04*	---	---
US31202250	2.250	2.250	2.875	0.312	2.875	0.343	---	18.70*	---	---
US31202250-375	2.250	2.250	2.875	0.375	2.875	0.406	---	14.83	---	---
US31202250-500	2.250	2.250	2.875	0.500	2.875	0.531	10.84*	14.83*	---	12.04*
US31202375	2.375	2.375	3.000	0.312	3.000	0.343	---	18.99	10.80	---
US31202375-375	2.375	2.375	3.000	0.375	3.000	0.406	---	15.18	---	---
US31202375-437	2.375	2.375	3.000	0.437	3.000	0.468	---	19.37*	---	---
US31202375-500	2.375	2.375	3.000	0.500	3.000	0.531	---	15.18	---	---
US31202500	2.500	2.500	3.125	0.312	3.125	0.343	---	19.76*	13.42*	---
US31202500-375	2.500	2.500	3.125	0.375	3.125	0.406	12.04*	15.42*	---	13.38*
US31202500-500	2.500	2.500	3.125	0.500	3.125	0.531	---	15.42	---	---
US31202625-375	2.625	2.625	3.250	0.375	3.250	0.406	---	15.92*	---	---
US31202625-500	2.625	2.625	3.250	0.500	3.250	0.531	12.65*	15.92*	---	14.05
US31202750-375	2.750	2.750	3.375	0.375	3.375	0.406	---	21.77*	---	---
US31202750-562	2.750	2.750	3.375	0.562	3.375	0.593	---	---	14.63*	---
US31202875-325	2.875	2.875	3.500	0.325	3.500	0.356	---	---	14.65*	---
US31202875-375	2.875	2.875	3.500	0.375	3.500	0.406	---	15.99*	---	---
US31202875-500	2.875	2.875	3.500	0.500	3.500	0.531	---	18.18*	---	---
US31203000-375	3.000	3.000	3.625	0.375	3.625	0.406	---	18.68*	---	---
US31203000-500	3.000	3.000	3.625	0.500	3.625	0.531	---	18.68	---	---
US31203000-562	3.000	3.000	3.625	0.562	3.625	0.593	---	---	15.71*	---

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

US SERIES - AU

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
5/16" - Cross Section - 0.312"										
US31203125	3.125	3.125	3.750	0.312	3.750	0.343	---	25.03*	---	---
US31203125-375	3.125	3.125	3.750	0.375	3.750	0.406	---	19.56	---	---
US31203125-500	3.125	3.125	3.750	0.500	3.750	0.531	13.44*	19.56*	---	14.94
US31203500-375	3.500	3.500	4.125	0.375	4.125	0.406	---	20.09	---	---
US31203500-500	3.500	3.500	4.125	0.500	4.125	0.531	---	20.09*	---	---
US31203625-375	3.625	3.625	4.250	0.375	4.250	0.406	---	21.25*	---	---
US31203625-500	3.625	3.625	4.250	0.500	4.250	0.531	---	28.97*	---	---
US31203875-375	3.875	3.875	4.500	0.375	4.500	0.406	---	23.43*	---	---
US31203875-500	3.875	3.875	4.500	0.500	4.500	0.531	14.67*	23.43*	---	16.30*
US31204000-375	4.000	4.000	4.625	0.375	4.625	0.406	---	23.85	---	---
US31204000-562	4.000	4.000	4.625	0.562	4.625	0.593	---	31.84*	---	---
US31204125-500	4.125	4.125	4.750	0.500	4.750	0.531	---	25.60*	---	---
US31204125-562	4.125	4.125	4.750	0.562	4.750	0.593	---	32.61*	---	---
US31204375-375	4.375	4.375	5.000	0.375	5.000	0.406	18.82*	29.91*	---	20.91*
US31204375-500	4.375	4.375	5.000	0.500	5.000	0.531	---	29.91*	---	---
US31204375-562	4.375	4.375	5.000	0.562	5.000	0.593	18.82*	29.91*	---	20.91*
US31204500-375	4.500	4.500	5.125	0.375	5.125	0.406	---	32.12*	---	---
US31204500-625	4.500	4.500	5.125	0.625	5.125	0.656	---	32.12*	---	---
US31204750-375	4.750	4.750	5.375	0.375	5.375	0.406	---	32.12*	---	---
US31204750-500	4.750	4.750	5.375	0.500	5.375	0.531	---	32.12*	---	---
US31204750-625	4.750	4.750	5.375	0.625	5.375	0.656	---	39.99*	---	---
US31204875-375	4.875	4.875	5.500	0.375	5.500	0.406	---	32.43*	---	---
US31204875-500	4.875	4.875	5.500	0.500	5.500	0.531	---	32.43*	---	---
US31205125-625	5.125	5.125	5.750	0.625	5.750	0.656	---	42.87*	---	---
US31205250-375	5.250	5.250	5.875	0.375	5.875	0.406	---	34.22*	---	---
US31205250-500	5.250	5.250	5.875	0.500	5.875	0.531	---	43.44*	---	---
US31205375-375	5.375	5.375	6.000	0.375	6.000	0.406	24.28*	35.10	---	26.97*
US31205375-500	5.375	5.375	6.000	0.500	6.000	0.531	---	35.10*	---	---
US31205375-596	5.375	5.375	6.000	0.596	6.000	0.627	24.76*	---	---	27.51*
US31205375-625	5.375	5.375	6.000	0.625	6.000	0.656	24.28*	39.09*	---	26.97*
US31205500-375	5.500	5.500	6.125	0.375	6.125	0.406	---	42.76*	---	---
US31205500-625	5.500	5.500	6.125	0.625	6.125	0.656	---	47.29	---	---
US31205625-625	5.625	5.625	6.250	0.625	6.250	0.656	---	48.34*	---	---
US31205875-375	5.875	5.875	6.500	0.375	6.500	0.406	---	42.82*	---	---
US31205875-562	5.875	5.875	6.500	0.562	6.500	0.593	---	54.18*	---	---
US31207375	7.375	7.375	8.000	0.312	8.000	0.343	34.90*	---	---	38.77*
11/32" - Cross Section - 0.343"										
US34302000-500	2.000	2.000	2.688	0.500	2.688	0.531	---	22.34*	---	---

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

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/8" - Cross Section - 0.375"										
US37501250-200	1.250	1.250	2.000	0.200	2.000	0.231	---	11.71*	---	---
US37501250	1.250	1.250	2.000	0.375	2.000	0.406	---	10.58*	---	---
US37501250-437	1.250	1.250	2.000	0.437	2.000	0.468	---	10.58*	---	---
US37501250-500	1.250	1.250	2.000	0.500	2.000	0.531	---	10.58	---	---
US37501500	1.500	1.500	2.250	0.375	2.250	0.406	---	12.76*	---	---
US37501500-500	1.500	1.500	2.250	0.500	2.250	0.531	---	16.87	---	---
US37501625	1.625	1.625	2.375	0.375	2.375	0.406	---	13.31*	---	---
US37501625-500	1.625	1.625	2.375	0.500	2.375	0.531	---	13.31*	---	---
US37501625-625	1.625	1.625	2.375	0.625	2.375	0.656	---	19.76*	---	---
US37501750	1.750	1.750	2.500	0.375	2.500	0.406	---	13.94*	---	---
US37501750-500	1.750	1.750	2.500	0.500	2.500	0.531	---	20.14	---	---
US37501750-593	1.750	1.750	2.500	0.593	2.500	0.624	---	20.62*	---	---
US37501750-625	1.750	1.750	2.500	0.625	2.500	0.656	---	13.94*	---	---
US37502000	2.000	2.000	2.750	0.375	2.750	0.406	---	17.26	---	---
US37502000-500	2.000	2.000	2.750	0.500	2.750	0.531	---	17.26*	---	---
US37502000-625	2.000	2.000	2.750	0.625	2.750	0.656	---	23.50	---	---
US37502250	2.250	2.250	3.000	0.375	3.000	0.406	---	18.11*	---	---
US37502250-437	2.250	2.250	3.000	0.437	3.000	0.468	---	24.26*	---	---
US37502250-500	2.250	2.250	3.000	0.500	3.000	0.531	---	18.11	---	---
US37502250-625	2.250	2.250	3.000	0.625	3.000	0.656	14.23*	18.11*	---	15.81
US37502500	2.500	2.500	3.250	0.375	3.250	0.406	---	18.38*	---	---
US37502500-500	2.500	2.500	3.250	0.500	3.250	0.531	---	18.38	---	---
US37502500-625	2.500	2.500	3.250	0.625	3.250	0.656	---	18.38*	---	---
US37502625	2.625	2.625	3.375	0.375	3.375	0.406	---	19.19*	---	---
US37502625-500	2.625	2.625	3.375	0.500	3.375	0.531	---	24.75*	---	---
US37502625-625	2.625	2.625	3.375	0.625	3.375	0.656	---	19.19	---	---
US37502750	2.750	2.750	3.500	0.375	3.500	0.406	16.56*	19.73*	---	18.40
US37502750-440	2.750	2.750	3.500	0.440	3.500	0.471	---	29.06*	---	---
US37502750-500	2.750	2.750	3.500	0.500	3.500	0.531	---	19.73*	---	---
US37502750-625	2.750	2.750	3.500	0.625	3.500	0.656	16.56*	19.73*	---	18.40*
US37503000	3.000	3.000	3.750	0.375	3.750	0.406	---	20.44*	---	---
US37503000-500	3.000	3.000	3.750	0.500	3.750	0.531	---	20.33*	---	---
US37503000-625	3.000	3.000	3.750	0.625	3.750	0.656	---	20.44*	---	---
US37503250-369	3.250	3.250	4.000	0.369	4.000	0.400	---	---	18.17	---
US37503250	3.250	3.250	4.000	0.375	4.000	0.406	19.57*	21.55	---	21.75
US37503250-437	3.250	3.250	4.000	0.437	4.000	0.468	19.57*	---	---	21.75*
US37503250-500	3.250	3.250	4.000	0.500	4.000	0.531	---	21.55	---	---
US37503250-625	3.250	3.250	4.000	0.625	4.000	0.656	19.57*	21.55*	---	21.75
US37503500	3.500	3.500	4.250	0.375	4.250	0.406	---	22.42	---	---
US37503500-437	3.500	3.500	4.250	0.437	4.250	0.468	---	35.58*	---	---
US37503500-500	3.500	3.500	4.250	0.500	4.250	0.531	---	21.55	---	---
US37503500-625	3.500	3.500	4.250	0.625	4.250	0.656	---	52.07*	---	---
US37503750	3.750	3.750	4.500	0.375	4.500	0.406	22.58*	24.98*	18.88	25.09*
US37503750-500	3.750	3.750	4.500	0.500	4.500	0.531	---	24.98	---	---

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US SERIES - AU

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/8" - Cross Section - 0.375"										
US37503750-625	3.750	3.750	4.500	0.625	4.500	0.656	---	24.98	---	---
US37503875	3.875	3.875	4.625	0.375	4.625	0.406	---	38.55*	---	---
US37504000	4.000	4.000	4.750	0.375	4.750	0.406	---	27.09*	28.36*	---
US37504000-437	4.000	4.000	4.750	0.437	4.750	0.468	---	40.76*	---	---
US37504000-500	4.000	4.000	4.750	0.500	4.750	0.531	23.23*	27.09*	---	25.81
US37504000-536	4.000	4.000	4.750	0.536	4.750	0.567	---	---	26.75*	---
US37504000-625	4.000	4.000	4.750	0.625	4.750	0.656	23.23*	27.09*	---	25.81*
US37504125-500	4.125	4.125	4.875	0.500	4.875	0.531	---	43.83*	---	---
US37504125-625	4.125	4.125	4.875	0.625	4.875	0.656	---	27.54*	---	---
US37504250	4.250	4.250	5.000	0.375	5.000	0.406	24.68*	27.54*	24.73	27.42*
US37504250-500	4.250	4.250	5.000	0.500	5.000	0.531	24.68*	27.54	---	27.42*
US37504250-625	4.250	4.250	5.000	0.625	5.000	0.656	24.68*	36.20*	---	27.42*
US37504500-500	4.500	4.500	5.250	0.500	5.250	0.531	26.13*	50.72	---	29.04
US37504500-625	4.500	4.500	5.250	0.625	5.250	0.656	---	28.42*	---	---
US37504625-500	4.625	4.625	5.375	0.500	5.375	0.531	---	29.49*	---	---
US37504750-360	4.750	4.750	5.500	0.360	5.500	0.391	---	---	33.22*	---
US37504750-500	4.750	4.750	5.500	0.500	5.500	0.531	---	30.37*	---	---
US37504750-625	4.750	4.750	5.500	0.625	5.500	0.656	27.58*	30.37	---	30.65*
US37504875-500	4.875	4.875	5.625	0.500	5.625	0.531	---	33.33*	---	---
US37504875-625	4.875	4.875	5.625	0.625	5.625	0.656	---	51.40*	---	---
US37505000-482	5.000	5.000	5.750	0.482	5.750	0.513	---	---	34.10*	---
US37505000-500	5.000	5.000	5.750	0.500	5.750	0.531	27.96*	---	---	31.07*
US37505250	5.250	5.250	6.000	0.375	6.000	0.406	29.36*	35.10*	---	32.62*
US37505250-500	5.250	5.250	6.000	0.500	6.000	0.531	---	35.10	---	---
US37505250-625	5.250	5.250	6.000	0.625	6.000	0.656	---	35.10	---	---
US37505375	5.375	5.375	6.125	0.375	6.125	0.406	---	55.24*	---	---
US37505375-625	5.375	5.375	6.125	0.625	6.125	0.656	---	89.94*	---	---
US37505500	5.500	5.500	6.250	0.375	6.250	0.406	---	38.53*	36.94*	---
US37505500-500	5.500	5.500	6.250	0.500	6.250	0.531	---	38.53*	---	---
US37505625-625	5.625	5.625	6.375	0.625	6.375	0.656	---	40.28*	---	---
US37505750	5.750	5.750	6.500	0.375	6.500	0.406	---	---	39.04	---
US37505750-500	5.750	5.750	6.500	0.500	6.500	0.531	32.15*	42.47*	---	35.73*
US37505750-625	5.750	5.750	6.500	0.625	6.500	0.656	---	50.53	---	---
US37506250	6.250	6.250	7.000	0.375	7.000	0.406	33.07*	---	---	36.74
US37506250-500	6.250	6.250	7.000	0.500	7.000	0.531	---	52.51	---	---
US37506250-625	6.250	6.250	7.000	0.625	7.000	0.656	33.07*	52.51	---	36.74
US37506375-625	6.375	6.375	7.125	0.625	7.125	0.656	---	64.36*	---	---
US37506500-500	6.500	6.500	7.250	0.500	7.250	0.531	---	57.82*	---	---
US37506500-625	6.500	6.500	7.250	0.625	7.250	0.656	---	57.83*	---	---
US37506750-500	6.750	6.750	7.500	0.500	7.500	0.531	35.71*	64.24	---	---
US37507000	7.000	7.000	7.750	0.375	7.750	0.406	---	69.11	---	---
US37507000-500	7.000	7.000	7.750	0.500	7.750	0.531	---	61.69	---	---
US37507000-625	7.000	7.000	7.750	0.625	7.750	0.656	---	64.82*	---	---
US37507250-500	7.250	7.250	8.000	0.500	8.000	0.531	---	67.01*	---	---

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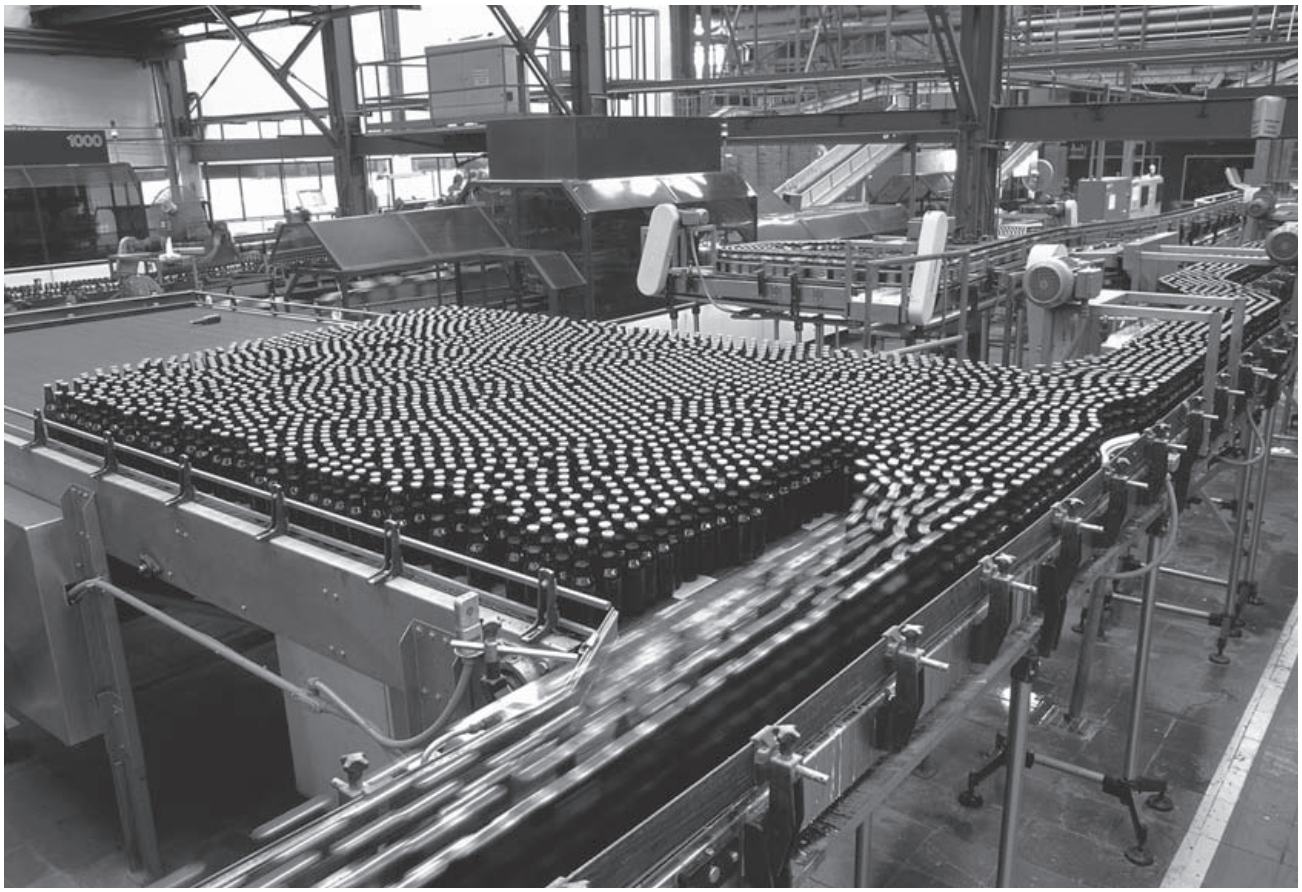
Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
3/8" - Cross Section - 0.375"										
US37507250-625	7.250	7.250	8.000	0.625	8.000	0.656	38.17*	72.22*	---	42.41
US37507500-500	7.500	7.500	8.250	0.500	8.250	0.531	38.71*	72.79*	---	43.02*
US37507500-625	7.500	7.500	8.250	0.625	8.250	0.656	---	73.46*	---	---
US37507750-500	7.750	7.750	8.500	0.500	8.500	0.531	---	70.03*	---	---
US37507750-625	7.750	7.750	8.500	0.625	8.500	0.656	---	75.57*	---	---
US37508000-500	8.000	8.000	8.750	0.500	8.750	0.531	---	77.77	---	---
US37508250-500	8.250	8.250	9.000	0.500	9.000	0.531	---	96.46*	---	---
US37509000-625	9.000	9.000	9.750	0.625	9.750	0.656	---	98.11*	---	---
US37509750-500	9.750	9.750	10.500	0.500	10.500	0.531	---	118.15*	---	---
US37514250-500	14.250	14.250	15.000	0.500	15.000	0.531	---	218.37*	---	---
US37514250-625	14.250	14.250	15.000	0.625	15.000	0.656	---	220.39*	---	---
1/2" - Cross Section - 0.500"										
US50001875-625	1.875	1.875	2.875	0.625	2.875	0.656	---	24.52*	---	---
US50002500-687	2.500	2.500	3.500	0.687	3.500	0.718	---	32.60*	---	---
US50003000-656	3.000	3.000	4.000	0.656	4.000	0.687	---	37.31*	---	---
US50003500	3.500	3.500	4.500	0.500	4.500	0.531	---	22.74	---	---
US50003500-625	3.500	3.500	4.500	0.625	4.500	0.656	---	22.74*	---	---
US50003500-656	3.500	3.500	4.500	0.656	4.500	0.687	---	52.74*	---	---
US50004000-625	4.000	4.000	5.000	0.625	5.000	0.656	31.83*	---	---	35.37*
US50004000-750	4.000	4.000	5.000	0.750	5.000	0.781	---	56.30*	---	---
US50004500	4.500	4.500	5.500	0.500	5.500	0.531	---	57.74	---	---
US50005000-750	5.000	5.000	6.000	0.750	6.000	0.781	39.49	---	27.05*	---
US50006000-625	6.000	6.000	7.000	0.625	7.000	0.656	---	53.65*	---	---
US50006000-750	6.000	6.000	7.000	0.750	7.000	0.781	---	63.86*	---	---
US50006500	6.500	6.500	7.500	0.500	7.500	0.531	---	77.58*	---	---
US50006500-750	6.500	6.500	7.500	0.750	7.500	0.781	---	66.38*	---	---
US50007000	7.000	7.000	8.000	0.500	8.000	0.531	---	---	53.67	---
US50007000-625	7.000	7.000	8.000	0.625	8.000	0.656	---	70.07*	---	---
US50007000-750	7.000	7.000	8.000	0.750	8.000	0.781	46.67*	---	---	51.86*
US50007500-750	7.500	7.500	8.500	0.750	8.500	0.781	---	87.03*	---	---
US50007750-750	7.750	7.750	8.750	0.750	8.750	0.781	---	82.46*	---	---
US50008000-625	8.000	8.000	9.000	0.625	9.000	0.656	---	85.42*	---	---
US50008000-750	8.000	8.000	9.000	0.750	9.000	0.781	---	96.25*	---	---
US50008500-593	8.500	8.500	9.500	0.593	9.500	0.624	---	104.16*	---	---
US50008500-750	8.500	8.500	9.500	0.750	9.500	0.781	---	104.16*	---	---
US50009000-625	9.000	9.000	10.000	0.625	10.000	0.656	---	112.86*	---	---
US50009000-750	9.000	9.000	10.000	0.750	10.000	0.781	---	112.86*	---	---
US50010000-593	10.000	10.000	11.000	0.593	11.000	0.624	---	121.70	---	---
US50010000-750	10.000	10.000	11.000	0.750	11.000	0.781	---	118.98*	---	---
US50011000-593	11.000	11.000	12.000	0.593	12.000	0.624	---	163.03	---	---
US50011000-750	11.000	11.000	12.000	0.750	12.000	0.781	---	167.43*	---	---

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

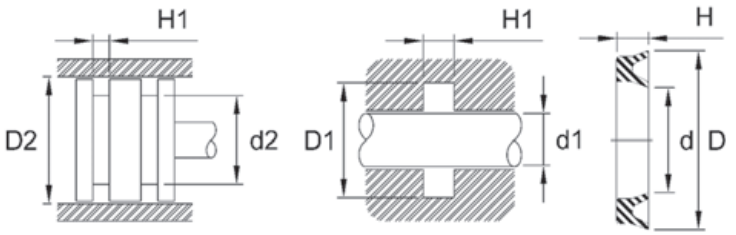
US SERIES - AU

Ref.Number	Inside Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		d	D	H	D1	H1	STD	9250	601	4615
1/2" - Cross Section - 0.500"										
US50012000-750	12.000	12.000	13.000	0.750	13.000	0.781	---	191.57*	---	---
US50015000-562	15.000	15.000	16.000	0.562	16.000	0.593	---	302.23*	---	---
US50015000-625	15.000	15.000	16.000	0.625	16.000	0.656	---	306.69*	---	---
US50015000-750	15.000	15.000	16.000	0.750	16.000	0.781	---	316.20*	---	---
US50017000-750	17.000	17.000	18.000	0.750	18.000	0.781	---	322.48*	---	---
5/8" - Cross Section - 0.625"										
US62503750	3.750	3.750	5.000	0.625	5.000	0.656	---	41.69	---	---
US62504250-750	4.250	4.250	5.500	0.750	5.500	0.781	38.39*	---	---	42.66*
US62505250-750	5.250	5.250	6.500	0.750	6.500	0.781	47.43*	---	---	52.69*
3/4" - Cross Section - 0.750"										
US75012500-1000	12.500	12.500	14.000	1.000	14.000	1.031	---	191.05*	---	---

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



AN6226 - Rod/Piston Seals



NBR 80A **Temperature: -40/250F [-40/121C]** **Pressure: 800 PSI [55 BAR]**
FPM **Temperature: -20/400F [-28/204C]**
Nitroxile **Temperature: -40/250F [-40/121C]**

Ref. Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove	Rod	Groove	Gland Diameter/Cylinder Bore	Gland	Cyl.Bore	Groove Width		
	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	1.55
AN6226-42*	0.187	0.437	0.125	0.187	+.000 / -.001	+.000 / -.001	0.437	+.002 / -.000	+.003 / -.000	0.156	+.010 / -.010	1.55
AN6226-43	0.250	0.500	0.125	0.250	+.000 / -.001	+.000 / -.001	0.500	+.002 / -.000	+.003 / -.000	0.156	+.010 / -.010	1.55
AN6226-44	0.312	0.562	0.125	0.312	+.000 / -.001	+.000 / -.001	0.562	+.002 / -.000	+.003 / -.000	0.156	+.010 / -.010	1.55
AN6226-45*	0.375	0.625	0.125	0.375	+.000 / -.001	+.000 / -.001	0.625	+.002 / -.000	+.003 / -.000	0.156	+.010 / -.010	1.62
AN6226-46*	0.437	0.687	0.125	0.437	+.000 / -.001	+.000 / -.001	0.687	+.002 / -.000	+.003 / -.000	0.156	+.010 / -.010	1.70
AN6226-47*	0.500	0.750	0.125	0.500	+.000 / -.001	+.000 / -.001	0.750	+.002 / -.000	+.003 / -.000	0.156	+.010 / -.010	1.70
AN6226-01	0.125	0.500	0.187	0.125	+.000 / -.001	+.000 / -.002	0.500	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	1.55
AN6226-02*	0.187	0.562	0.187	0.187	+.000 / -.001	+.000 / -.002	0.562	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	1.55
AN6226-03	0.250	0.625	0.187	0.250	+.000 / -.001	+.000 / -.002	0.625	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	1.62
AN6226-04	0.312	0.687	0.187	0.315	+.000 / -.001	+.000 / -.002	0.687	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	1.62
AN6226-05	0.375	0.750	0.187	0.375	+.000 / -.001	+.000 / -.002	0.750	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	1.62
AN6226-06	0.437	0.812	0.187	0.437	+.000 / -.001	+.000 / -.002	0.812	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	1.80
AN6226-07	0.500	0.875	0.187	0.500	+.000 / -.001	+.000 / -.002	0.875	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	1.87
AN6226-07/V*	0.500	0.875	0.187	0.500	+.000 / -.001	+.000 / -.002	0.875	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	4.63
AN6226-48	0.625	1.000	0.187	0.625	+.000 / -.002	+.000 / -.002	1.000	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	2.11
AN6226-48/NX*	0.625	1.000	0.187	0.625	+.000 / -.002	+.000 / -.002	1.000	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	21.39
AN6226-48/V	0.625	1.000	0.187	0.625	+.000 / -.002	+.000 / -.002	1.000	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	4.64
AN6226-49	0.750	1.125	0.187	0.750	+.000 / -.002	+.000 / -.002	1.125	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	2.11
AN6226-50	0.875	1.250	0.187	0.875	+.000 / -.002	+.000 / -.002	1.250	+.002 / -.000	+.003 / -.000	0.218	+.010 / -.010	2.27
AN6226-51	1.000	1.375	0.187	1.000	+.000 / -.002	+.000 / -.001	1.375	+.002 / -.000	+.004 / -.000	0.218	+.010 / -.010	2.27
AN6226-52*	1.125	1.500	0.187	1.125	+.000 / -.002	+.000 / -.001	1.500	+.002 / -.000	+.004 / -.000	0.218	+.010 / -.010	2.30
AN6226-53	1.250	1.625	0.187	1.250	+.000 / -.002	+.000 / -.001	1.625	+.002 / -.000	+.004 / -.000	0.218	+.010 / -.010	2.30
AN6226-08*	0.250	0.750	0.250	0.250	+.000 / -.002	+.000 / -.003	0.750	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	1.98
AN6226-09	0.312	0.812	0.250	0.312	+.000 / -.002	+.000 / -.003	0.812	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	1.98
AN6226-10*	0.375	0.875	0.250	0.375	+.000 / -.002	+.000 / -.003	0.875	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	1.98
AN6226-11	0.437	0.937	0.250	0.437	+.000 / -.002	+.000 / -.003	0.937	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	1.98
AN6226-12	0.500	1.000	0.250	0.500	+.000 / -.002	+.000 / -.003	1.000	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.11
AN6226-13*	0.562	1.062	0.250	0.562	+.000 / -.002	+.000 / -.003	1.062	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.11
AN6226-14	0.625	1.125	0.250	0.625	+.000 / -.002	+.000 / -.003	1.125	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.11
AN6226-15	0.687	1.187	0.250	0.687	+.000 / -.002	+.000 / -.003	1.187	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.11
AN6226-16	0.750	1.250	0.250	0.750	+.000 / -.002	+.000 / -.003	1.250	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.27
AN6226-16/V	0.750	1.250	0.250	0.750	+.000 / -.002	+.000 / -.003	1.250	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	13.46
AN6226-17*	0.812	1.312	0.250	0.812	+.000 / -.002	+.000 / -.003	1.312	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.27
AN6226-18	0.875	1.375	0.250	0.875	+.000 / -.002	+.000 / -.003	1.375	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.27
AN6226-19	0.937	1.437	0.250	0.937	+.000 / -.002	+.000 / -.003	1.437	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.27
AN6226-20	1.000	1.500	0.250	1.000	+.000 / -.002	+.000 / -.003	1.500	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.36

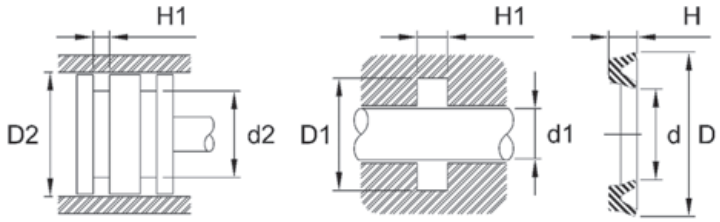
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

AN6226 SERIES - NBR 80A, FPM, NITROXILE

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.	
AN6226-20/V*	1.000	1.500	0.250	1.000	+.000 / -.002	+.000 / -.003	1.500	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	15.74
AN6226-21*	1.062	1.562	0.250	1.062	+.000 / -.002	+.000 / -.003	1.562	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.43
AN6226-22	1.125	1.625	0.250	1.125	+.000 / -.002	+.000 / -.003	1.625	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.43
AN6226-23	1.187	1.687	0.250	1.187	+.000 / -.002	+.000 / -.003	1.687	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.43
AN6226-24	1.250	1.750	0.250	1.250	+.000 / -.002	+.000 / -.003	1.750	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	2.43
AN6226-25	1.250	1.875	0.312	1.250	+.000 / -.001	+.000 / -.004	1.875	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	2.61
AN6226-26	1.375	2.000	0.312	1.375	+.000 / -.002	+.000 / -.004	2.000	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	2.78
AN6226-27	1.500	2.125	0.312	1.500	+.000 / -.002	+.000 / -.004	2.125	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	2.87
AN6226-28*	1.625	2.250	0.312	1.625	+.000 / -.002	+.000 / -.004	2.250	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	2.90
AN6226-29	1.750	2.375	0.312	1.750	+.000 / -.002	+.000 / -.004	2.375	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	2.94
AN6226-30	1.875	2.500	0.312	1.875	+.000 / -.002	+.000 / -.004	2.500	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	3.03
AN6226-31	2.000	2.625	0.312	2.000	+.000 / -.002	+.000 / -.004	2.625	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	3.13
AN6226-32*	2.125	2.750	0.312	2.125	+.000 / -.002	+.000 / -.004	2.750	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	3.28
AN6226-33	2.250	2.875	0.312	2.250	+.000 / -.002	+.000 / -.004	2.875	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	3.32
AN6226-34	2.375	3.000	0.312	2.375	+.000 / -.002	+.000 / -.004	3.000	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	3.53
AN6226-34/V*	2.375	3.000	0.312	2.375	+.000 / -.002	+.000 / -.004	3.000	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	24.77
AN6226-35	2.500	3.125	0.312	2.500	+.000 / -.002	+.000 / -.004	3.125	+.004 / -.000	+.003 / -.000	0.343	+.010 / -.010	3.73
AN6226-36	2.500	3.250	0.375	2.500	+.000 / -.002	+.000 / -.004	3.250	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	3.85
AN6226-37	2.625	3.375	0.375	2.625	+.000 / -.002	+.000 / -.005	3.375	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	4.04
AN6226-38	2.750	3.500	0.375	2.750	+.000 / -.002	+.000 / -.005	3.500	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	4.08
AN6226-39*	2.875	3.625	0.375	2.875	+.000 / -.002	+.000 / -.005	3.625	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	4.21
AN6226-40	3.000	3.750	0.375	3.000	+.000 / -.002	+.000 / -.005	3.750	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	4.30
AN6226-60	3.250	4.000	0.375	3.250	+.000 / -.003	+.000 / -.005	4.000	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	6.10
AN6226-63*	3.750	4.500	0.375	3.750	+.000 / -.003	+.000 / -.005	4.500	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	8.02
AN6226-65	4.250	5.000	0.375	4.250	+.000 / -.005	+.000 / -.005	5.000	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	10.03
AN6226-81*	7.500	8.250	0.375	7.500	+.000 / -.005	+.000 / -.007	8.250	+.007 / -.000	+.005 / -.000	0.406	+.010 / -.010	29.83
AN6226-70	5.125	6.000	0.437	5.125	+.000 / -.005	+.000 / -.005	6.000	+.005 / -.000	+.004 / -.000	0.468	+.010 / -.010	28.73
AN6226-75	6.125	7.000	0.437	6.125	+.000 / -.005	+.000 / -.005	7.000	+.005 / -.000	+.004 / -.000	0.468	+.010 / -.010	42.59
AN6226-80	7.000	8.000	0.500	7.000	+.000 / -.005	+.000 / -.007	8.000	+.007 / -.000	+.005 / -.000	0.531	+.010 / -.010	23.19
AN6226-82	8.000	9.000	0.500	8.000	+.000 / -.005	+.000 / -.007	9.000	+.007 / -.000	+.005 / -.000	0.531	+.010 / -.010	30.15
AN6226-85	9.000	10.000	0.500	9.000	+.000 / -.005	+.000 / -.007	10.000	+.007 / -.000	+.005 / -.000	0.531	+.010 / -.010	34.57
AN6226-90	11.000	12.000	0.500	11.000	+.000 / -.005	+.000 / -.007	12.000	+.007 / -.000	+.005 / -.000	0.531	+.010 / -.010	37.16
AN6226-95*	13.000	14.000	0.500	13.000	+.000 / -.005	+.000 / -.007	14.000	+.007 / -.000	+.005 / -.000	0.531	+.010 / -.010	47.29

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

8400 - Rod/Piston Seals



NBR 80A **Temperature: -40/250F [-40/121C]**
FPM **Temperature: -20/400F [-28/204C]**
Nitroxile **Temperature: -40/250F [-40/121C]**
EPDM **Temperature: -65/300F [-54/149C]**

Pressure: 1250 PSI [86 BAR]

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	O/R
840200187/N*	0.187	0.312	0.062	0.187	+.000 / -.001	+.000 / -.001	0.312	+.002 / -.000	+.002 / -.000	0.093	+.010 / -.010	O/R
840200250/N*	0.250	0.375	0.062	0.250	+.000 / -.001	+.000 / -.001	0.375	+.002 / -.000	+.002 / -.000	0.093	+.010 / -.010	O/R
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	2.10
840300187/N	0.187	0.375	0.093	0.187	+.000 / -.001	+.000 / -.001	0.375	+.002 / -.000	+.002 / -.000	0.125	+.010 / -.010	2.10
840300250/N	0.250	0.437	0.093	0.250	+.000 / -.001	+.000 / -.001	0.437	+.002 / -.000	+.002 / -.000	0.125	+.010 / -.010	2.10
840300312/N*	0.312	0.500	0.093	0.312	+.000 / -.001	+.000 / -.001	0.500	+.002 / -.000	+.002 / -.000	0.125	+.010 / -.010	2.10
840300375/N	0.375	0.562	0.093	0.375	+.000 / -.001	+.000 / -.001	0.562	+.002 / -.000	+.002 / -.000	0.125	+.010 / -.010	2.30
840300437/N	0.437	0.625	0.093	0.437	+.000 / -.001	+.000 / -.001	0.625	+.002 / -.000	+.002 / -.000	0.125	+.010 / -.010	2.10
840300562/N	0.562	0.750	0.093	0.562	+.000 / -.001	+.000 / -.001	0.750	+.002 / -.000	+.002 / -.000	0.125	+.010 / -.010	2.10
840300625/N	0.625	0.812	0.093	0.625	+.000 / -.001	+.000 / -.001	0.812	+.002 / -.000	+.002 / -.000	0.125	+.010 / -.010	2.10
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	2.10
840400250/N	0.250	0.500	0.125	0.250	+.000 / -.001	+.002 / -.000	0.500	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400250/V*	0.250	0.500	0.125	0.250	+.000 / -.001	+.002 / -.000	0.500	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	14.26
840400312/N	0.312	0.562	0.125	0.312	+.000 / -.001	+.002 / -.000	0.562	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.25
840400375/N	0.375	0.625	0.125	0.375	+.000 / -.001	+.002 / -.000	0.625	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400437/N	0.437	0.687	0.125	0.437	+.000 / -.001	+.002 / -.000	0.687	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400500/N	0.500	0.750	0.125	0.500	+.000 / -.001	+.002 / -.000	0.750	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400500/NX*	0.500	0.750	0.125	0.500	+.000 / -.001	+.002 / -.000	0.750	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	16.45
840400500/V	0.500	0.750	0.125	0.500	+.000 / -.001	+.002 / -.000	0.750	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	7.80
840400562/N	0.562	0.812	0.125	0.562	+.000 / -.001	+.002 / -.000	0.812	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400625/E*	0.625	0.875	0.125	0.625	+.000 / -.001	+.002 / -.000	0.875	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	3.64
840400625/N	0.625	0.875	0.125	0.625	+.000 / -.001	+.002 / -.000	0.875	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400625/NX	0.625	0.875	0.125	0.625	+.000 / -.001	+.002 / -.000	0.875	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	19.21
840400625/V	0.625	0.875	0.125	0.625	+.000 / -.001	+.002 / -.000	0.875	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	9.53

*** : 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"												
840400687/N	0.687	0.937	0.125	0.687	+.000 / -.001	+.002 / -.000	0.937	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400750/E*	0.750	1.000	0.125	0.750	+.000 / -.001	+.002 / -.000	1.000	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	4.46
840400750/N	0.750	1.000	0.125	0.750	+.000 / -.001	+.002 / -.000	1.000	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.10
840400750/NX*	0.750	1.000	0.125	0.750	+.000 / -.001	+.002 / -.000	1.000	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	21.16
840400750/V	0.750	1.000	0.125	0.750	+.000 / -.001	+.002 / -.000	1.000	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	13.15
840400812/N	0.812	1.062	0.125	0.812	+.000 / -.001	+.002 / -.000	1.062	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.27
840400875/N	0.875	1.125	0.125	0.875	+.000 / -.001	+.002 / -.000	1.125	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.27
840400937/N	0.937	1.187	0.125	0.937	+.000 / -.001	+.002 / -.000	1.187	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.28
840401000/N	1.000	1.250	0.125	1.000	+.000 / -.001	+.002 / -.000	1.250	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.27
840401000/V	1.000	1.250	0.125	1.000	+.000 / -.001	+.002 / -.000	1.250	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	14.31
840401125/N	1.125	1.375	0.125	1.125	+.000 / -.001	+.002 / -.000	1.375	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.34
840401250/N	1.250	1.500	0.125	1.250	+.000 / -.001	+.002 / -.000	1.500	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.65
840401375/N	1.375	1.625	0.125	1.375	+.000 / -.001	+.002 / -.000	1.625	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.34
840401500/N*	1.500	1.750	0.125	1.500	+.000 / -.001	+.002 / -.000	1.750	+.002 / -.000	+.002 / -.000	0.156	+.010 / -.010	2.34
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	2.34
840500687/N*	0.687	1.000	0.156	0.687	+.000 / -.001	+.002 / -.000	1.000	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.43
840500750/N*	0.750	1.062	0.156	0.750	+.000 / -.001	+.002 / -.000	1.062	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.43
840500937/N	0.937	1.250	0.156	0.937	+.000 / -.001	+.002 / -.000	1.250	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.43
840501000/N	1.000	1.312	0.156	1.000	+.000 / -.001	+.002 / -.000	1.312	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.49
840501000/V	1.000	1.312	0.156	1.000	+.000 / -.001	+.002 / -.000	1.312	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	16.09
840501062/N	1.062	1.375	0.156	1.062	+.000 / -.001	+.002 / -.000	1.375	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.52
840501125/N*	1.125	1.437	0.156	1.125	+.000 / -.001	+.002 / -.000	1.437	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.75
840501187/N	1.187	1.500	0.156	1.187	+.000 / -.001	+.002 / -.000	1.500	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.61
840501187/V	1.187	1.500	0.156	1.187	+.000 / -.001	+.002 / -.000	1.500	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	16.90
840501250/N	1.250	1.562	0.156	1.250	+.000 / -.001	+.002 / -.000	1.562	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.78
840501250/V*	1.250	1.562	0.156	1.250	+.000 / -.001	+.002 / -.000	1.562	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	22.63
840501312/N	1.312	1.625	0.156	1.312	+.000 / -.001	+.002 / -.000	1.625	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	3.03
840501375/N	1.375	1.687	0.156	1.375	+.000 / -.001	+.002 / -.000	1.687	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.94
840501375/V	1.375	1.687	0.156	1.375	+.000 / -.001	+.002 / -.000	1.687	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	18.50
840501437/N	1.437	1.750	0.156	1.437	+.000 / -.001	+.002 / -.000	1.750	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	2.94
840501500/N	1.500	1.812	0.156	1.500	+.000 / -.001	+.002 / -.000	1.812	+.002 / -.000	+.002 / -.000	0.187	+.010 / -.010	3.02
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	2.49
840600625/N*	0.625	1.000	0.187	0.625	+.000 / -.002	+.000 / -.002	1.000	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.41
840600750/N*	0.750	1.125	0.187	0.750	+.000 / -.002	+.000 / -.002	1.125	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.41
840600875/N*	0.875	1.250	0.187	0.875	+.000 / -.002	+.000 / -.002	1.250	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.59
840601000/N	1.000	1.375	0.187	1.000	+.000 / -.002	+.000 / -.002	1.375	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.53

*** : 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"												
840601250/N*	1.250	1.625	0.187	1.250	+.000 / -.002	+.000 / -.002	1.625	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.53
840601375/N	1.375	1.750	0.187	1.375	+.000 / -.002	+.000 / -.002	1.750	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.80
840601375/NX*	1.375	1.750	0.187	1.375	+.000 / -.002	+.000 / -.002	1.750	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	18.96
840601375/V	1.375	1.750	0.187	1.375	+.000 / -.002	+.000 / -.002	1.750	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	25.11
840601500/N	1.500	1.875	0.187	1.500	+.000 / -.002	+.000 / -.002	1.875	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.80
840601625/N	1.625	2.000	0.187	1.625	+.000 / -.002	+.000 / -.002	2.000	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.94
840601625/V	1.625	2.000	0.187	1.625	+.000 / -.002	+.000 / -.002	2.000	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	19.76
840601750/N	1.750	2.125	0.187	1.750	+.000 / -.002	+.000 / -.002	2.125	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.94
840601750/V*	1.750	2.125	0.187	1.750	+.000 / -.002	+.000 / -.002	2.125	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	20.59
840601875/N	1.875	2.250	0.187	1.875	+.000 / -.002	+.000 / -.002	2.250	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.94
840601875/V	1.875	2.250	0.187	1.875	+.000 / -.002	+.000 / -.002	2.250	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	22.08
840602000/N	2.000	2.375	0.187	2.000	+.000 / -.002	+.000 / -.002	2.375	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	3.17
840602000/V	2.000	2.375	0.187	2.000	+.000 / -.002	+.000 / -.002	2.375	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	21.11
840602125/N	2.125	2.500	0.187	2.125	+.000 / -.002	+.000 / -.002	2.500	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	3.17
840602125/V	2.125	2.500	0.187	2.125	+.000 / -.002	+.000 / -.002	2.500	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	21.11
840602250/N	2.250	2.625	0.187	2.250	+.000 / -.002	+.000 / -.002	2.625	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	3.38
840602375/N	2.375	2.750	0.187	2.375	+.000 / -.002	+.000 / -.002	2.750	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	3.17
840602500/N	2.500	2.875	0.187	2.500	+.000 / -.002	+.000 / -.002	2.875	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	4.49
840602500/V	2.500	2.875	0.187	2.500	+.000 / -.002	+.000 / -.002	2.875	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	24.63
840602625/N	2.625	3.000	0.187	2.625	+.000 / -.002	+.000 / -.002	3.000	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	3.97
840602750/N	2.750	3.125	0.187	2.750	+.000 / -.002	+.000 / -.002	3.125	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	4.18
840602875/N	2.875	3.250	0.187	2.875	+.000 / -.002	+.000 / -.002	3.250	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	4.20
840603000/N*	3.000	3.375	0.187	3.000	+.000 / -.002	+.000 / -.002	3.375	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	2.64
840603250/N*	3.250	3.625	0.187	3.250	+.000 / -.002	+.000 / -.002	3.625	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	7.30
840603375/N*	3.375	3.750	0.187	3.375	+.000 / -.002	+.000 / -.002	3.750	+.002 / -.000	+.002 / -.000	0.218	+.010 / -.010	7.43
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	4.41
840702500/N	2.500	2.937	0.218	2.500	+.000 / -.002	+.000 / -.002	2.937	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	4.37
840702500/V	2.500	2.937	0.218	2.500	+.000 / -.002	+.000 / -.002	2.937	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	23.21
840702562/N	2.562	3.000	0.218	2.562	+.000 / -.002	+.000 / -.002	3.000	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	4.59
840702687/N*	2.687	3.125	0.218	2.687	+.000 / -.002	+.000 / -.002	3.125	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	5.28
840702750/N	2.750	3.187	0.218	2.750	+.000 / -.002	+.000 / -.002	3.187	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	5.06
840702812/N	2.812	3.250	0.218	2.812	+.000 / -.002	+.000 / -.002	3.250	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	5.32
840702812/V	2.812	3.250	0.218	2.812	+.000 / -.002	+.000 / -.002	3.250	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	24.14
840703000/N	3.000	3.437	0.218	3.000	+.000 / -.002	+.000 / -.002	3.437	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	6.49
840703000/V	3.000	3.437	0.218	3.000	+.000 / -.002	+.000 / -.002	3.437	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	25.98
840703062/N	3.062	3.500	0.218	3.062	+.000 / -.002	+.000 / -.002	3.500	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	7.43
840703312/N*	3.312	3.750	0.218	3.312	+.000 / -.002	+.000 / -.002	3.750	+.002 / -.000	+.002 / -.000	0.250	+.010 / -.010	8.18

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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.	
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	3.97
840801000/N	1.000	1.500	0.250	1.000	+.000 / -.002	+.000 / -.003	1.500	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	4.33
840801375/N*	1.375	1.875	0.250	1.375	+.000 / -.002	+.000 / -.003	1.875	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	4.38
840801750/N*	1.750	2.250	0.250	1.750	+.000 / -.002	+.000 / -.003	2.250	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	4.59
840802000/N	2.000	2.500	0.250	2.000	+.000 / -.002	+.000 / -.003	2.500	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	5.06
840802500/N	2.500	3.000	0.250	2.500	+.000 / -.002	+.000 / -.003	3.000	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	5.33
840802750/N	2.750	3.250	0.250	2.750	+.000 / -.002	+.000 / -.003	3.250	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	5.61
840803375/N*	3.375	3.875	0.250	3.375	+.000 / -.002	+.000 / -.003	3.875	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	5.84
840803500/N	3.500	4.000	0.250	3.500	+.000 / -.002	+.000 / -.003	4.000	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	5.55
840803500/V	3.500	4.000	0.250	3.500	+.000 / -.002	+.000 / -.003	4.000	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	26.49
840803750/N	3.750	4.250	0.250	3.750	+.000 / -.002	+.000 / -.003	4.250	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	5.83
840804000/N	4.000	4.500	0.250	4.000	+.000 / -.002	+.000 / -.003	4.500	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	6.00
840804000/V	4.000	4.500	0.250	4.000	+.000 / -.002	+.000 / -.003	4.500	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	33.19
840804250/N*	4.250	4.750	0.250	4.250	+.000 / -.002	+.000 / -.003	4.750	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	6.46
840804500/N	4.500	5.000	0.250	4.500	+.000 / -.002	+.000 / -.003	5.000	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	6.62
840804500/NX*	4.500	5.000	0.250	4.500	+.000 / -.002	+.000 / -.003	5.000	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	81.00
840804500/V	4.500	5.000	0.250	4.500	+.000 / -.002	+.000 / -.003	5.000	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	37.39
840804750/N	4.750	5.250	0.250	4.750	+.000 / -.002	+.000 / -.003	5.250	+.003 / -.000	+.003 / -.000	0.281	+.010 / -.010	11.80
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	11.97
840904437/V	4.437	5.000	0.281	4.437	+.000 / -.002	+.000 / -.003	5.000	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	38.71
840904562/N*	4.562	5.125	0.281	4.562	+.000 / -.002	+.000 / -.003	5.125	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	28.00
840905000/N	5.000	5.562	0.281	5.000	+.000 / -.002	+.000 / -.003	5.562	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	23.19
840905000/V*	5.000	5.562	0.281	5.000	+.000 / -.002	+.000 / -.003	5.562	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	42.91
840905437/N	5.437	6.000	0.281	5.437	+.000 / -.002	+.000 / -.003	6.000	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	13.72
840905437/V	5.437	6.000	0.281	5.437	+.000 / -.002	+.000 / -.003	6.000	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	47.02
840905937/N	5.937	6.500	0.281	5.937	+.000 / -.002	+.000 / -.003	6.500	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	9.99
840906437/N*	6.437	7.000	0.281	6.437	+.000 / -.002	+.000 / -.003	7.000	+.000 / -.003	+.003 / -.000	0.312	+.010 / -.010	9.26
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	8.97
841002375/NX*	2.375	3.000	0.312	2.375	+.000 / -.002	+.000 / -.004	3.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	39.53
841004375/N	4.375	5.000	0.312	4.375	+.000 / -.002	+.000 / -.004	5.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	8.32
841005125/N	5.125	5.750	0.312	5.125	+.000 / -.002	+.000 / -.004	5.750	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	10.39
841005375/N	5.375	6.000	0.312	5.375	+.000 / -.002	+.000 / -.004	6.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	12.45
841005375/V	5.375	6.000	0.312	5.375	+.000 / -.002	+.000 / -.004	6.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	53.97
841005500/N	5.500	6.125	0.312	5.500	+.000 / -.002	+.000 / -.004	6.125	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	16.37
841005500/V	5.500	6.125	0.312	5.500	+.000 / -.002	+.000 / -.004	6.125	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	70.90
841006000/N*	6.000	6.625	0.312	6.000	+.000 / -.002	+.000 / -.004	6.625	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	19.93

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

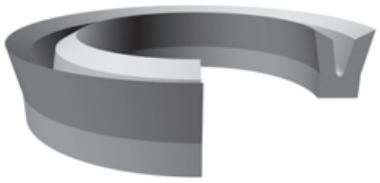
8400 SERIES - NBR 80A, FPM, NITROXILE, EPDM

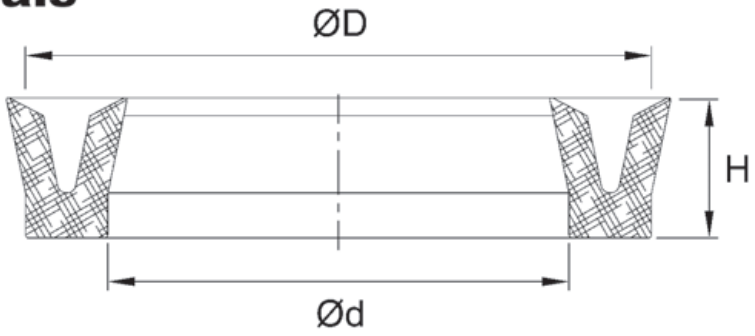
Ref. Number	Nominal Seal Dimensions			Housing Dimensions								$
				Rod Diameter/Piston Groove			Gland Diameter/Cylinder Bore			Groove Width		
					Rod	Groove		Gland	Cyl.Bore			
	d	D	H	DIM.	d1 - Tol.	d2 - Tol.	DIM.	D1 - Tol.	D2 - Tol.	H1	Tol.	
5/16" - Cross Section - 0.312"												
841006375/N	6.375	7.000	0.312	6.375	+.000 / -.002	+.000 / -.004	7.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	19.71
841006375/V	6.375	7.000	0.312	6.375	+.000 / -.002	+.000 / -.004	7.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	74.79
841006969/N*	6.969	7.593	0.312	6.969	+.000 / -.002	+.000 / -.004	7.593	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	22.84
841007000/N*	7.000	7.625	0.312	7.000	+.000 / -.002	+.000 / -.004	7.625	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	24.30
841007375/N	7.375	8.000	0.312	7.375	+.000 / -.002	+.000 / -.004	8.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	24.41
841007375/V	7.375	8.000	0.312	7.375	+.000 / -.002	+.000 / -.004	8.000	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	114.65
841008500/N*	8.500	9.125	0.312	8.500	+.000 / -.002	+.000 / -.004	9.125	+.004 / -.000	+.003 / -.000	0.344	+.010 / -.010	29.27
11/32" - Cross Section - 0.343"												
841109312/N	9.312	10.000	0.343	9.312	+.000 / -.002	+.000 / -.005	10.000	+.004 / -.000	+.003 / -.000	0.375	+.010 / -.010	33.46
841109312/V	9.312	10.000	0.343	9.312	+.000 / -.002	+.000 / -.005	10.000	+.004 / -.000	+.003 / -.000	0.375	+.010 / -.010	145.55
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	5.92
841202500/N*	2.500	3.250	0.375	2.500	+.000 / -.002	+.000 / -.005	3.250	+.004 / -.000	+.002 / -.000	0.406	+.010 / -.010	5.98
841209250/N	9.250	10.000	0.375	9.250	+.000 / -.002	+.000 / -.005	10.000	+.004 / -.000	+.002 / -.000	0.406	+.010 / -.010	34.06
841211250/N	11.250	12.000	0.375	11.250	+.000 / -.002	+.000 / -.005	12.000	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	57.85
841211250/V	11.250	12.000	0.375	11.250	+.000 / -.002	+.000 / -.005	12.000	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	174.03
841213250/V*	13.250	14.000	0.375	13.250	+.000 / -.002	+.000 / -.005	14.000	+.005 / -.000	+.004 / -.000	0.406	+.010 / -.010	223.53
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	43.20
841313187/V*	13.187	14.000	0.406	13.187	+.000 / -.002	+.000 / -.005	14.000	+.005 / -.000	+.004 / -.000	0.437	+.010 / -.010	235.82
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	0/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	55.80
841611000/N*	11.000	12.000	0.500	11.000	+.000 / -.003	+.000 / -.007	12.000	+.007 / -.000	+.005 / -.000	0.531	+.010 / -.010	72.94
841613000/N	13.000	14.000	0.500	13.000	+.000 / -.003	+.000 / -.007	14.000	+.007 / -.000	+.005 / -.000	0.531	+.010 / -.010	75.42

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

FU - Rod/Piston Seals

Neo-Fab





NBR: Temperature: -40/250F [-40/121C] Pressure: 5000 PSI [345 BAR]

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
FU25001375-312*	1.375	1.875	0.312	13.14
FU25001500*	1.500	2.000	0.250	10.65
FU25001500-375*	1.500	2.000	0.375	10.65
FU25002000-375*	2.000	2.500	0.375	11.35
FU25002500-375	2.500	3.000	0.375	8.82
FU25003000-375*	3.000	3.500	0.375	9.78
FU25003500-375*	3.500	4.000	0.375	17.29
5/16" - Cross Section - 0.312"				
FU31201125-375*	1.125	1.750	0.375	8.56
FU31202375*	2.375	3.000	0.312	12.23
FU31202375-375*	2.375	3.000	0.375	12.23
3/8" - Cross Section - 0.375"				
FU37501250-500*	1.250	2.000	0.500	9.53
FU37501500*	1.500	2.250	0.375	10.04
FU37501500-500*	1.500	2.250	0.500	10.04
FU37501625*	1.625	2.375	0.375	10.60
FU37501750-500*	1.750	2.500	0.500	12.23
FU37502000*	2.000	2.750	0.375	9.53
FU37502000-500*	2.000	2.750	0.500	12.71
FU37502250*	2.250	3.000	0.375	12.93
FU37502250-500*	2.250	3.000	0.500	12.93
FU37502500-343*	2.500	3.250	0.343	13.54
FU37502500-500*	2.500	3.250	0.500	13.54
FU37502750*	2.750	3.500	0.375	14.15
FU37502750-500*	2.750	3.500	0.500	14.15
FU37503000-437*	3.000	3.750	0.437	15.72
FU37503000-500*	3.000	3.750	0.500	15.72
FU37503250*	3.250	4.000	0.375	16.33

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
FU37503250-500*	3.250	4.000	0.500	16.33
FU37503500-500*	3.500	4.250	0.500	17.64
FU37503750-500*	3.750	4.500	0.500	17.90
FU37504000-500*	4.000	4.750	0.500	20.44
FU37504250*	4.250	5.000	0.375	21.66
FU37504250-500*	4.250	5.000	0.500	21.66
FU37504250-562*	4.250	5.000	0.562	21.66
FU37504500-500*	4.500	5.250	0.500	21.88
FU37504750-500	4.750	5.500	0.500	23.23
FU37505000-500*	5.000	5.750	0.500	23.71
FU37505250-500*	5.250	6.000	0.500	25.15
FU37505500-500*	5.500	6.250	0.500	26.37
FU37505750-500*	5.750	6.500	0.500	27.33
FU37506000-500*	6.000	6.750	0.500	28.20
FU37506250-500*	6.250	7.000	0.500	33.36
FU37506500-500*	6.500	7.250	0.500	37.35
FU37507250-500*	7.250	8.000	0.500	37.73
FU37507750-500*	7.750	8.500	0.500	47.20
FU37508000-500	8.000	8.750	0.500	48.59
FU37508250-500*	8.250	9.000	0.500	44.82
FU37508750-500*	8.750	9.500	0.500	44.36
FU37509250-500*	9.250	10.000	0.500	61.96
FU37509500-500*	9.500	10.250	0.500	47.22
FU37510125-500*	10.125	10.875	0.500	50.30
FU37510750-500*	10.750	11.500	0.500	56.02
FU37511125-500*	11.125	11.875	0.500	57.16
FU37511250-500*	11.250	12.000	0.500	57.75
FU37512125-500*	12.125	12.875	0.500	60.72
FU37513125-500*	13.125	13.875	0.500	66.11
FU37513250-500*	13.250	14.000	0.500	66.70
FU37515125-500*	15.125	15.875	0.500	75.64
FU37515250-500*	15.250	16.000	0.500	76.23
FU37516250-500*	16.250	17.000	0.500	80.17
FU37517250-500*	17.250	18.000	0.500	85.76

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

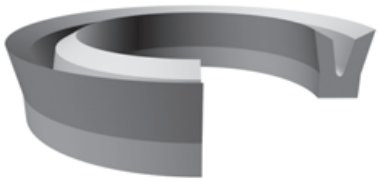
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
7/16" - Cross Section - 0.437"				
FU43711125-500*	11.125	12.000	0.500	61.60
1/2" - Cross Section - 0.500"				
FU50001500*	1.500	2.500	0.500	10.60
FU50002000*	2.000	3.000	0.500	12.71
FU50002500*	2.500	3.500	0.500	13.54
FU50003000*	3.000	4.000	0.500	15.72
FU50003000-750*	3.000	4.000	0.750	21.66
FU50003125*	3.125	4.125	0.500	21.62
FU50004000-1000*	4.000	5.000	1.000	27.35
FU50004000-437*	4.000	5.000	0.437	27.35
FU50004000*	4.000	5.000	0.500	20.44
FU50004000-812*	4.000	5.000	0.812	27.35
FU50004750*	4.750	5.750	0.500	30.13
FU50004875*	4.875	5.875	0.500	31.81
FU50005000*	5.000	6.000	0.500	32.13
FU50005000-750*	5.000	6.000	0.750	32.13
FU50006000-1000*	6.000	7.000	1.000	34.58
FU50006000*	6.000	7.000	0.500	34.58
FU50007000-750	7.000	8.000	0.750	42.79
FU50008000-750*	8.000	9.000	0.750	48.97
FU50009750-750*	9.750	10.750	0.750	56.13
FU50010000-625*	10.000	11.000	0.625	69.17
FU50011000-750*	11.000	12.000	0.750	75.46
FU50011500-1000*	11.500	12.500	1.000	78.60
FU50011625-1000*	11.625	12.625	1.000	80.16
FU50016875-750*	16.875	17.875	0.750	103.78
FU50018875-750*	18.875	19.875	0.750	168.71
FU50020875-750*	20.875	21.875	0.750	182.54
9/16" - Cross Section - 0.562"				
FU56218875-1125*	18.875	20.000	1.125	180.76
5/8" - Cross Section - 0.625"				
FU62501000-500*	1.000	2.250	0.500	16.85
FU62512000-1250*	12.000	13.250	1.250	92.59
FU62514750-1125*	14.750	16.000	1.125	136.22

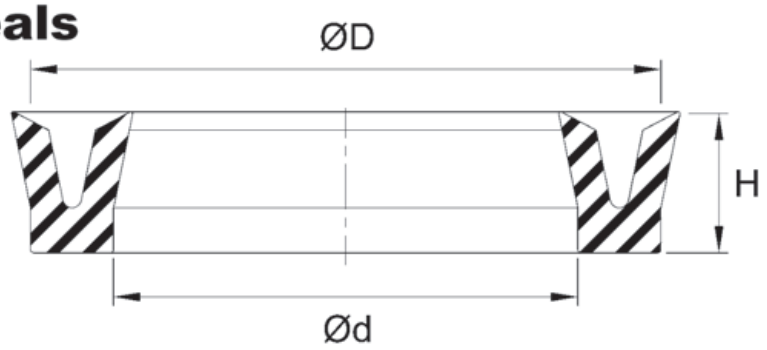
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/4" - Cross Section - 0.750"				
FU75006500*	6.500	8.000	0.750	128.79
FU75008000*	8.000	9.500	0.750	78.76
FU75010000-1000*	10.000	11.500	1.000	100.61
FU75012000-1000*	12.000	13.500	1.000	119.47
FU75016000-1250*	16.000	17.500	1.250	158.92
FU75018000-1000*	18.000	19.500	1.000	169.77
FU75020000-1375*	20.000	21.500	1.375	242.09
7/8" - Cross Section - 0.875"				
FU87520000-1125*	20.000	21.750	1.125	314.39
FU87526000-1250*	26.000	27.750	1.250	1392.19
1" - Cross Section - 1.000"				
FU10006500*	6.500	8.500	1.000	158.71
FU10009000-1187*	9.000	11.000	1.187	172.92
FU10011500-1187*	11.500	13.500	1.187	208.29
FU10012000-1250*	12.000	14.000	1.250	222.35
FU10014000*	14.000	16.000	1.000	251.52
FU10016000-1250*	16.000	18.000	1.250	285.87
FU10018000-1125*	18.000	20.000	1.125	324.33
1 1/4" - Cross Section - 1.250"				
FU12505500-500*	5.500	8.000	0.500	119.77
FU12511250-1187*	11.250	13.750	1.187	205.86
1 1/2" - Cross Section - 1.500"				
FU15005250-1000*	5.250	8.250	1.000	136.22

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

HU - Rod/Piston Seals

Nitrile NBR 80A





Temperature: -30/240F [-34/115C] **Pressure: 1250 PSI [85 BAR]**

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/16" - Cross Section - 0.062"				
HU06200250-070*	0.250	0.375	0.070	2.33
0.070" - Cross Section - 0.070"				
HU07000234-093*	0.234	0.375	0.093	2.33
3/32" - Cross Section - 0.093"				
HU09300187-093*	0.187	0.375	0.093	2.33
HU09300312-093*	0.312	0.500	0.093	3.13
1/8" - Cross Section - 0.125"				
HU12500312*	0.312	0.562	0.125	3.13
HU12500312-250*	0.312	0.562	0.250	3.13
HU12500375*	0.375	0.625	0.125	3.28
HU12500375-250*	0.375	0.625	0.250	3.28
HU12500437*	0.437	0.687	0.125	3.28
HU12500500-250*	0.500	0.750	0.250	3.28
HU12500625*	0.625	0.875	0.125	3.38
HU12500750*	0.750	1.000	0.125	4.66
HU12500750-250*	0.750	1.000	0.250	4.66
HU12500875*	0.875	1.125	0.125	5.51
HU12500937*	0.937	1.187	0.125	5.51
HU12501000*	1.000	1.250	0.125	6.44
HU12501000-250	1.000	1.250	0.250	6.44
HU12501250*	1.250	1.500	0.125	6.65
HU12501250-250*	1.250	1.500	0.250	6.65
HU12501375*	1.375	1.625	0.125	7.90
HU12501500-240*	1.500	1.750	0.240	8.66
HU12501500-250*	1.500	1.750	0.250	8.66

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/8" - Cross Section - 0.125"				
HU12501625*	1.625	1.875	0.125	7.56
HU12501875*	1.875	2.125	0.125	8.82
HU12503250-187*	3.250	3.500	0.187	12.87
5/32" - Cross Section - 0.156"				
HU15600625-218*	0.625	0.937	0.219	3.83
HU15600687*	0.687	1.000	0.156	3.99
HU15600687-218*	0.687	1.000	0.219	3.99
HU15600750*	0.750	1.062	0.156	4.81
HU15601000*	1.000	1.312	0.156	4.71
HU15601187*	1.187	1.500	0.156	5.93
HU15601437*	1.437	1.750	0.156	6.84
HU15601500*	1.500	1.812	0.156	6.19
HU15601625*	1.625	1.937	0.156	5.06
3/16" - Cross Section - 0.187"				
HU18700625-312*	0.625	1.000	0.312	4.27
HU18700750-312*	0.750	1.125	0.312	4.09
HU18700875-312*	0.875	1.250	0.312	5.06
HU18701000*	1.000	1.375	0.187	5.17
HU18701125-312*	1.125	1.500	0.312	5.75
HU18701375*	1.375	1.750	0.187	5.75
HU18701375-312	1.375	1.750	0.312	5.75
HU18701500*	1.500	1.875	0.187	6.74
HU18701625*	1.625	2.000	0.187	7.14
HU18701625-375*	1.625	2.000	0.375	7.14
HU18701875*	1.875	2.250	0.187	6.74
HU18702000*	2.000	2.375	0.187	8.06
HU18702125*	2.125	2.500	0.187	7.51
HU18702125-375*	2.125	2.500	0.375	7.51

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

HU SERIES - NBR 80A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/16" - Cross Section - 0.187"				
HU18702250*	2.250	2.625	0.187	7.81
HU18702750*	2.750	3.125	0.187	9.36
HU18702750-375*	2.750	3.125	0.375	9.36
HU18704125-375*	4.125	4.500	0.375	12.99
7/32" - Cross Section - 0.218"				
HU21800937-312*	0.937	1.375	0.312	5.17
HU21802562*	2.562	3.000	0.218	9.25
HU21802687-187*	2.687	3.125	0.187	9.32
HU21803062*	3.062	3.500	0.218	10.79
1/4" - Cross Section - 0.250"				
HU25001000-375	1.000	1.500	0.375	4.81
HU25001187-375*	1.187	1.687	0.375	6.44
HU25001375*	1.375	1.875	0.250	6.71
HU25001500-375	1.500	2.000	0.375	7.83
HU25001500-600*	1.500	2.000	0.600	7.83
HU25001750*	1.750	2.250	0.250	8.23
HU25001750-285*	1.750	2.250	0.285	8.23
HU25001750-375*	1.750	2.250	0.375	31.36
HU25001875*	1.875	2.375	0.250	7.43
HU25002000-375	2.000	2.500	0.375	7.51
HU25002375-375*	2.375	2.875	0.375	8.44
HU25002500-375	2.500	3.000	0.375	8.92
HU25002625*	2.625	3.125	0.250	9.04
HU25002750-375*	2.750	3.250	0.375	9.41
HU25003000-375	3.000	3.500	0.375	13.61
HU25003125*	3.125	3.625	0.250	10.61
HU25003375*	3.375	3.875	0.250	11.16
HU25003500*	3.500	4.000	0.250	11.40
HU25003500-375*	3.500	4.000	0.375	11.40
HU25003625*	3.625	4.125	0.250	11.69
HU25004000*	4.000	4.500	0.250	12.89
HU25004000-312*	4.000	4.500	0.312	12.89
HU25004125*	4.125	4.625	0.250	13.38
HU25004500-375	4.500	5.000	0.375	13.32
HU25004500-562*	4.500	5.000	0.562	14.02
HU25004625*	4.625	5.125	0.250	52.97
HU25005500-375*	5.500	6.000	0.375	15.66
HU25005750*	5.750	6.250	0.250	16.92

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/4" - Cross Section - 0.250"				
HU25006000-375*	6.000	6.500	0.375	18.73
HU25007500-375	7.500	8.000	0.375	23.19
9/32" - Cross Section - 0.281"				
HU28100687-250*	0.687	1.250	0.250	6.22
HU28105937*	5.937	6.500	0.281	11.36
5/16" - Cross Section - 0.312"				
HU31200625-437*	0.625	1.250	0.437	6.22
HU31201187*	1.187	1.812	0.312	6.19
HU31202500-500*	2.500	3.125	0.500	9.04
HU31202875-500*	2.875	3.500	0.500	10.38
HU31203312*	3.312	3.937	0.312	11.66
HU31204000-562*	4.000	4.625	0.562	17.15
HU31204375*	4.375	5.000	0.312	16.23
HU31205375*	5.375	6.000	0.312	17.58
HU31205500*	5.500	6.125	0.312	10.74
HU31206375*	6.375	7.000	0.312	23.19
11/32" - Cross Section - 0.343"				
HU34300562-437*	0.562	1.250	0.437	5.61
HU34300937-312*	0.937	1.625	0.312	7.38
HU34302312-312*	2.312	3.000	0.312	10.92
HU34309312*	9.312	10.000	0.343	41.95
3/8" - Cross Section - 0.375"				
HU37501250-500	1.250	2.000	0.500	7.14
HU37502812*	2.812	3.562	0.375	11.54
HU37503250-437*	3.250	4.000	0.437	13.72
HU37503250-500	3.250	4.000	0.500	13.72
HU37504250-500*	4.250	5.000	0.500	14.27
HU37505250-500	5.250	6.000	0.500	16.98
HU37505250-625*	5.250	6.000	0.625	17.50
HU37506250-500	6.250	7.000	0.500	20.23
HU37507250-500	7.250	8.000	0.500	22.80
HU37507250-625*	7.250	8.000	0.625	22.80

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

HU SERIES - NBR 80A

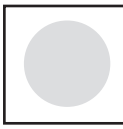
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
3/8" - Cross Section - 0.375"				
HU37508250-500*	8.250	9.000	0.500	25.67
HU37509250*	9.250	10.000	0.375	28.55
HU37509250-500	9.250	10.000	0.500	28.55
HU37511250*	11.250	12.000	0.375	36.08
HU37511250-500	11.250	12.000	0.500	36.08
HU37513250-500*	13.250	14.000	0.500	42.12
HU37515250-500	15.250	16.000	0.500	59.27
HU37516250-500*	16.250	17.000	0.500	77.41
HU37517250-500*	17.250	18.000	0.500	82.07
HU37520250-500*	20.250	21.000	0.500	96.63
13/32" - Cross Section - 0.406"				
HU40604187-500	4.187	5.000	0.500	22.57
HU40607187-500*	7.187	8.000	0.500	36.10
7/16" - Cross Section - 0.437"				
HU43702125-375*	2.125	3.000	0.375	12.03
HU43703500-425*	3.500	4.375	0.425	64.41
HU43705000*	5.000	5.875	0.437	19.90
HU43705125-420	5.125	6.000	0.420	20.12
HU43705500-875*	5.500	6.375	0.875	21.81
HU43715125	15.125	16.000	0.437	74.93
HU43715125-500*	15.125	16.000	0.500	74.93
1/2" - Cross Section - 0.500"				
HU50003375*	3.375	4.375	0.500	20.60
HU50004125	4.125	5.125	0.500	24.99

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
1/2" - Cross Section - 0.500"				
HU50004000*	4.000	5.000	0.500	25.64
HU50005000-687*	5.000	6.000	0.687	31.11
HU50006000	6.000	7.000	0.500	28.64
HU50006500-594*	6.500	7.500	0.594	41.16
HU50013000*	13.000	14.000	0.500	73.15
HU50017000*	17.000	18.000	0.500	94.16
HU50019000*	19.000	20.000	0.500	108.15
HU50019000-750*	19.000	20.000	0.750	108.15
17/32" - Cross Section - 0.531"				
HU53120937-750*	20.937	22.000	0.750	228.63
9/16" - Cross Section - 0.562"				
HU56201750*	1.750	2.875	0.562	10.58
5/8" - Cross Section - 0.625"				
HU62501750-600*	1.750	3.000	0.600	21.67
1" - Cross Section - 1.000"				
HU10028000-1250*	28.000	30.000	1.250	1265.22

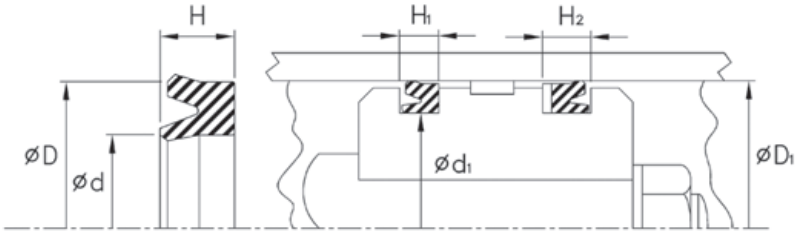
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	UP	D	2
	KP	D	7
	CB	D	8
	CF	D	9
	ECF	D	12
	CH	D	13
	CS	D	15
	CT	D	17
	TP	D	19
	TP-1	D	21
	TP-2	D	22
	UNIRING	D	23
	PSP	D	24
	PSP-A	D	26
	PSP-AT	D	28
	CP	D	28
	PIP Ring	D	31
	TFES	D	32
	AU-S	D	34
	160G	D	35
	TFER/G	D	36
	TFER/B	D	37
	TFER/U	D	39
	AQ	D	40
	PS2470	D	42
	P2B	D	43
	C914	D	44

	ZG	D	45
	CTS	D	46
	P1000	D	48
	P3C	D	51
	P3D	D	54
	P5B	D	55
	HYDROLOCK VEE SET	D	57



UP



STD AU 92A	**Temp.: -40/212F [-40/100C]**	**Pressure: 5000 PSI [345 BAR]**
606 Hythane 93A	**Temp.: -50/230F [-45/110C]**	**Pressure: 5000 PSI [345 BAR]**
9250 AU 92A	**Temp.: -65/300F [-54/149C]**	**Pressure: 6000 PSI [415 BAR]**
4615 AU 92A	**Temp.: -65/200F [-54/93C]**	**Pressure: 5000 PSI [345 BAR]**

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
UP18700375-312	0.750	0.750	0.375	0.312	0.375	0.343	---	---	5.39*	---
UP12500500-187	0.750	0.750	0.500	0.187	0.500	0.206	4.69*	---	---	5.21*
UP12500500-250	0.750	0.750	0.500	0.250	0.500	0.275	4.69*	---	---	5.21*
UP12500625	0.875	0.875	0.625	0.125	0.625	0.138	4.93*	---	---	5.48
UP12500750	1.000	1.000	0.750	0.125	0.750	0.138	5.36*	7.15	---	---
UP12500750-187	1.000	1.000	0.750	0.187	0.750	0.218	---	7.81*	---	---
UP12500750-250	1.000	1.000	0.750	0.250	0.750	0.281	---	8.01*	---	---
UP18700750-250	1.125	1.125	0.750	0.250	0.750	0.281	---	8.30*	---	---
UP18700750-312	1.125	1.125	0.750	0.312	0.750	0.343	---	---	5.93*	---
UP18700812	1.187	1.187	0.812	0.187	0.812	0.218	---	8.10*	---	---
UP18700812-250	1.187	1.187	0.812	0.250	0.812	0.281	---	8.20*	---	---
UP12500875-250	1.125	1.125	0.875	0.250	0.875	0.281	---	8.30*	---	---
UP18700875	1.250	1.250	0.875	0.187	0.875	0.218	---	8.30*	---	---
UP18700875-250	1.250	1.250	0.875	0.250	0.875	0.281	---	8.59*	---	---
UP18700875-312	1.250	1.250	0.875	0.312	0.875	0.343	---	8.79*	---	---
UP25000875	1.375	1.375	0.875	0.250	0.875	0.275	6.42*	8.79*	---	7.13*
UP12501000	1.250	1.250	1.000	0.125	1.000	0.156	---	8.50*	---	---
UP12501000-187	1.250	1.250	1.000	0.187	1.000	0.206	5.57*	8.89*	---	6.19*
UP12501000-250	1.250	1.250	1.000	0.250	1.000	0.281	---	8.46*	---	---
UP25001000	1.500	1.500	1.000	0.250	1.000	0.275	6.45*	8.84*	---	7.17
UP25001000-312	1.500	1.500	1.000	0.312	1.000	0.343	---	9.47*	---	---
UP25001000-375	1.500	1.500	1.000	0.375	1.000	0.413	6.45*	9.12*	---	7.17

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Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP18701125-250	1.500	1.500	1.125	0.250	1.125	0.275	---	9.37*	5.93	---
UP18701125-312	1.500	1.500	1.125	0.312	1.125	0.343	---	9.57	---	---
UP18701125-375	1.500	1.500	1.125	0.375	1.125	0.406	---	9.76*	---	---
UP25001125	1.625	1.625	1.125	0.250	1.125	0.281	---	9.76*	---	---
UP25001125-312	1.625	1.625	1.125	0.312	1.125	0.343	---	9.52*	---	---
UP25001125-375	1.625	1.625	1.125	0.375	1.125	0.406	---	10.35*	---	---
UP31201125-437	1.750	1.750	1.125	0.437	1.125	0.468	---	11.42*	---	---
UP31201125-500	1.750	1.750	1.125	0.500	1.125	0.531	---	11.06*	---	---
UP25001187	1.687	1.687	1.187	0.250	1.187	0.275	6.66*	---	---	7.40
UP12501250-250	1.500	1.500	1.250	0.250	1.250	0.275	---	---	6.28	---
UP18701250-250	1.625	1.625	1.250	0.250	1.250	0.281	---	9.67*	---	---
UP18701250-312	1.625	1.625	1.250	0.312	1.250	0.343	6.23*	13.70	---	6.93*
UP25001250	1.750	1.750	1.250	0.250	1.250	0.281	---	10.16	---	---
UP25001250-375	1.750	1.750	1.250	0.375	1.250	0.413	6.70*	10.54*	---	7.44*
UP31201250-437	1.875	1.875	1.250	0.437	1.250	0.468	---	11.49*	---	---
UP31201250-500	1.875	1.875	1.250	0.500	1.250	0.531	---	12.40*	---	---
UP18701375-312	1.750	1.750	1.375	0.312	1.375	0.343	---	11.36*	---	---
UP18701375-375	1.750	1.750	1.375	0.375	1.375	0.406	---	10.64*	---	---
UP25001375	1.875	1.875	1.375	0.250	1.375	0.281	---	10.99*	---	---
UP31201375-375	2.000	2.000	1.375	0.375	1.375	0.406	---	17.28*	---	---
UP31201375-437	2.000	2.000	1.375	0.437	1.375	0.468	---	12.99	---	---
UP31201375-500	2.000	2.000	1.375	0.500	1.375	0.550	8.07*	12.99	6.90*	8.96*
UP25001500	2.000	2.000	1.500	0.250	1.500	0.275	7.45*	11.82*	---	8.28*
UP25001500-312	2.000	2.000	1.500	0.312	1.500	0.343	7.55*	11.22*	---	8.39*
UP25001500-375	2.000	2.000	1.500	0.375	1.500	0.413	7.65	11.22	8.17	8.50*
UP18701625	2.000	2.000	1.625	0.187	1.625	0.206	---	---	8.17	---
UP18701625-250	2.000	2.000	1.625	0.250	1.625	0.275	7.29*	---	---	8.10
UP18701625-312	2.000	2.000	1.625	0.312	1.625	0.343	7.29*	11.33	8.17	8.10*
UP18701625-375	2.000	2.000	1.625	0.375	1.625	0.413	7.29*	11.33*	8.17	8.10*
UP31201625-375	2.250	2.250	1.625	0.375	1.625	0.406	---	14.35*	---	---
UP31201625-500	2.250	2.250	1.625	0.500	1.625	0.531	---	13.38*	---	---
UP43701625-500	2.500	2.500	1.625	0.500	1.625	0.550	---	---	9.84*	---
UP18701750-312	2.125	2.125	1.750	0.312	1.750	0.343	---	13.38*	---	---
UP18701750-375	2.125	2.125	1.750	0.375	1.750	0.406	---	9.63*	---	---
UP25001750-312	2.250	2.250	1.750	0.312	1.750	0.343	---	13.18*	---	---
UP25001750-375	2.250	2.250	1.750	0.375	1.750	0.413	---	14.17	8.28	---
UP31201750-500	2.375	2.375	1.750	0.500	1.750	0.531	---	15.92*	---	---
UP37501750	2.500	2.500	1.750	0.375	1.750	0.413	12.83*	---	---	14.26*
UP18701875-375	2.250	2.250	1.875	0.375	1.875	0.413	---	---	8.28	---
UP25001875-312	2.375	2.375	1.875	0.312	1.875	0.343	---	52.24*	---	---
UP31201875-375	2.500	2.500	1.875	0.375	1.875	0.406	---	13.80	---	---
UP31201875-437	2.500	2.500	1.875	0.437	1.875	0.468	---	16.60	---	---
UP31201875-500	2.500	2.500	1.875	0.500	1.875	0.550	10.45*	16.80*	9.84	11.61*
UP18702000-312	2.375	2.375	2.000	0.312	2.000	0.343	---	16.28*	---	---
UP18702000-375	2.375	2.375	2.000	0.375	2.000	0.406	---	11.91*	---	---
UP25002000	2.500	2.500	2.000	0.250	2.000	0.275	---	---	9.84	11.65*
UP25002000-312	2.500	2.500	2.000	0.312	2.000	0.343	---	14.26	---	---
UP25002000-375	2.500	2.500	2.000	0.375	2.000	0.413	9.39	14.50	10.33	10.43*

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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
UP37502000	2.750	2.750	2.000	0.375	2.000	0.406	---	22.46	---	---
UP37502000-500	2.750	2.750	2.000	0.500	2.000	0.531	---	24.02*	---	---
UP37502000-625	2.750	2.750	2.000	0.625	2.000	0.656	---	22.75*	---	---
UP18702125	2.500	2.500	2.125	0.187	2.125	0.218	---	17.48	---	---
UP18702125-250	2.500	2.500	2.125	0.250	2.125	0.275	---	13.96*	9.95	---
UP18702125-312	2.500	2.500	2.125	0.312	2.125	0.343	9.35*	17.48*	9.95	10.39*
UP18702125-375	2.500	2.500	2.125	0.375	2.125	0.413	9.35*	17.48*	10.46	10.39
UP25002125-312	2.625	2.625	2.125	0.312	2.125	0.343	---	15.62*	---	---
UP25002125-375	2.625	2.625	2.125	0.375	2.125	0.406	---	15.62*	---	11.70*
UP31202125	2.750	2.750	2.125	0.312	2.125	0.343	---	17.87*	---	---
UP25002250-312	2.750	2.750	2.250	0.312	2.250	0.343	---	19.70*	---	---
UP25002250-375	2.750	2.750	2.250	0.375	2.250	0.413	10.56*	15.69	---	11.73*
UP37502250	3.000	3.000	2.250	0.375	2.250	0.406	---	25.39*	---	---
UP37502250-455	3.000	3.000	2.250	0.455	2.250	0.493	---	---	12.31	---
UP37502250-500	3.000	3.000	2.250	0.500	2.250	0.531	---	25.78	---	---
UP37502250-625	3.000	3.000	2.250	0.625	2.250	0.656	---	18.37*	---	---
UP25002375-312	2.875	2.875	2.375	0.312	2.375	0.343	---	16.70*	---	---
UP25002375-375	2.875	2.875	2.375	0.375	2.375	0.406	---	16.89*	---	---
UP31202375-375	3.000	3.000	2.375	0.375	2.375	0.406	---	17.09*	---	---
UP31202375-500	3.000	3.000	2.375	0.500	2.375	0.550	12.26*	20.90*	12.31	13.62*
UP25002500	3.000	3.000	2.500	0.250	2.500	0.275	11.73*	17.48	12.31	13.04*
UP25002500-312	3.000	3.000	2.500	0.312	2.500	0.343	---	17.87*	---	---
UP25002500-375	3.000	3.000	2.500	0.375	2.500	0.413	11.73	15.03	12.31	13.04*
UP37502500	3.250	3.250	2.500	0.375	2.500	0.413	13.20*	26.66*	---	14.67
UP37502500-500	3.250	3.250	2.500	0.500	2.500	0.550	17.29*	27.54*	---	19.21
UP37502500-625	3.250	3.250	2.500	0.625	2.500	0.656	---	34.96	---	---
UP18702625-375	3.000	3.000	2.625	0.375	2.625	0.413	---	---	14.65	---
UP31202625-500	3.250	3.250	2.625	0.500	2.625	0.550	---	---	14.65	---
UP25002750	3.250	3.250	2.750	0.250	2.750	0.275	---	---	13.32	---
UP25002750-375	3.250	3.250	2.750	0.375	2.750	0.413	12.91*	16.50	13.32	14.34*
UP37502750	3.500	3.500	2.750	0.375	2.750	0.406	---	19.53	---	---
UP37502750-500	3.500	3.500	2.750	0.500	2.750	0.550	17.42*	30.27*	16.06*	19.36*
UP37502750-625	3.500	3.500	2.750	0.625	2.750	0.688	---	23.67	18.56	---
UP18702875-250	3.250	3.250	2.875	0.250	2.875	0.275	---	---	16.19	---
UP18702875-375	3.250	3.250	2.875	0.375	2.875	0.413	12.65*	---	---	14.06*
UP31202875	3.500	3.500	2.875	0.312	2.875	0.343	---	---	23.53*	---
UP31202875-375	3.500	3.500	2.875	0.375	2.875	0.406	---	23.14	---	---
UP31202875-500	3.500	3.500	2.875	0.500	2.875	0.550	14.10*	21.20*	16.19*	15.67*
UP25003000	3.500	3.500	3.000	0.250	3.000	0.275	13.20*	---	16.24*	14.67*
UP25003000-375	3.500	3.500	3.000	0.375	3.000	0.413	13.20*	16.86	16.24	14.67
UP37503000	3.750	3.750	3.000	0.375	3.000	0.406	---	23.37	---	---
UP37503000-500	3.750	3.750	3.000	0.500	3.000	0.550	20.77*	20.07	---	23.08
UP37503000-625	3.750	3.750	3.000	0.625	3.000	0.688	20.77*	34.86*	---	23.08
UP18703125-275	3.500	3.500	3.125	0.275	3.125	0.302	---	---	25.10*	---
UP18703125-375	3.500	3.500	3.125	0.375	3.125	0.413	---	20.24*	14.16	---
UP31203125-375	3.750	3.750	3.125	0.375	3.125	0.413	15.58*	25.29*	---	17.31*
UP31203125-500	3.750	3.750	3.125	0.500	3.125	0.550	15.58*	25.68*	---	17.31
UP25003250-375	3.750	3.750	3.250	0.375	3.250	0.413	14.30*	17.82	16.27	15.89*

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Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP37503250	4.000	4.000	3.250	0.375	3.250	0.413	---	20.61*	16.34	---
UP37503250-437	4.000	4.000	3.250	0.437	3.250	0.481	22.05*	---	---	24.50*
UP37503250-500	4.000	4.000	3.250	0.500	3.250	0.550	22.27*	21.33	16.34	24.75*
UP37503250-625	4.000	4.000	3.250	0.625	3.250	0.688	22.50*	21.33	16.34	25.00*
UP31203375-375	4.000	4.000	3.375	0.375	3.375	0.406	---	21.55	---	---
UP31203375-500	4.000	4.000	3.375	0.500	3.375	0.550	16.83*	21.55	16.60	18.70*
UP25003500	4.000	4.000	3.500	0.250	3.500	0.275	15.40*	24.02*	16.68	17.11*
UP25003500-312	4.000	4.000	3.500	0.312	3.500	0.343	---	---	16.68	---
UP25003500-375	4.000	4.000	3.500	0.375	3.500	0.413	15.40	19.99	16.68	17.11*
UP37503500	4.250	4.250	3.500	0.375	3.500	0.406	---	21.69	---	---
UP37503500-500	4.250	4.250	3.500	0.500	3.500	0.550	23.74*	---	---	---
UP18703625-375	4.000	4.000	3.625	0.375	3.625	0.413	17.01*	28.61*	17.51	18.90*
UP25003625-375	4.125	4.125	3.625	0.375	3.625	0.406	---	20.31	---	---
UP31203625-375	4.250	4.250	3.625	0.375	3.625	0.406	---	22.58*	---	---
UP31203625-500	4.250	4.250	3.625	0.500	3.625	0.531	---	22.58*	---	---
UP25003750-375	4.250	4.250	3.750	0.375	3.750	0.413	16.50*	20.58*	17.91*	18.33*
UP37503750	4.500	4.500	3.750	0.375	3.750	0.413	25.18*	25.92	---	27.98*
UP37503750-500	4.500	4.500	3.750	0.500	3.750	0.550	25.44*	25.92*	---	28.27
UP37503750-625	4.500	4.500	3.750	0.625	3.750	0.688	25.70*	25.92*	24.29	28.56*
UP31203875-375	4.500	4.500	3.875	0.375	3.875	0.406	---	30.95*	---	---
UP31203875-500	4.500	4.500	3.875	0.500	3.875	0.531	---	25.48*	---	---
UP25004000-375	4.500	4.500	4.000	0.375	4.000	0.413	16.90*	33.97	18.56	18.77*
UP25004000-562	4.500	4.500	4.000	0.562	4.000	0.593	---	25.99	---	---
UP31204000-375	4.625	4.625	4.000	0.375	4.000	0.406	---	38.86*	---	---
UP31204000-500	4.625	4.625	4.000	0.500	4.000	0.531	---	31.83*	---	---
UP50004000-731	5.000	5.000	4.000	0.731	4.000	0.803	---	---	48.08*	---
UP37504250	5.000	5.000	4.250	0.375	4.250	0.413	27.65*	26.02*	27.52	30.72*
UP37504250-500	5.000	5.000	4.250	0.500	4.250	0.550	27.93*	26.02	28.92	31.03*
UP37504250-625	5.000	5.000	4.250	0.625	4.250	0.688	28.20*	26.94	27.52	31.34*
UP31204375-562	5.000	5.000	4.375	0.562	4.375	0.618	21.56*	---	---	23.96
UP37504375-500	5.125	5.125	4.375	0.500	4.375	0.531	---	27.18*	---	---
UP18504379-275	4.750	4.750	4.379	0.275	4.379	0.301	---	---	28.24*	---
UP25004500	5.000	5.000	4.500	0.250	4.500	0.275	19.01*	32.91*	28.11	21.12*
UP25004500-375	5.000	5.000	4.500	0.375	4.500	0.413	19.01	26.49	29.51	21.12*
UP25004500-437	5.000	5.000	4.500	0.437	4.500	0.468	---	35.76*	---	---
UP25004500-562	5.000	5.000	4.500	0.562	4.500	0.618	19.01*	27.89	28.11	21.12*
UP37504500	5.250	5.250	4.500	0.375	4.500	0.406	---	28.13*	---	---
UP37504500-500	5.250	5.250	4.500	0.500	4.500	0.550	---	29.44*	28.11*	---
UP37504500-625	5.250	5.250	4.500	0.625	4.500	0.656	---	31.65*	---	---
UP25004750-312	5.250	5.250	4.750	0.312	4.750	0.343	20.06*	---	---	22.29*
UP37504750-500	5.500	5.500	4.750	0.500	4.750	0.550	31.21*	33.07	---	34.68*
UP37504750-625	5.500	5.500	4.750	0.625	4.750	0.688	---	33.07*	29.62	---
UP25005000-375	5.500	5.500	5.000	0.375	5.000	0.413	22.59	55.35	---	25.10*
UP25005000-562	5.500	5.500	5.000	0.562	5.000	0.618	22.59*	46.87	---	25.10*
UP37505000-500	5.750	5.750	5.000	0.500	5.000	0.531	---	34.33	---	---
UP37505250	6.000	6.000	5.250	0.375	5.250	0.413	33.88*	41.39	38.36	37.64*
UP37505250-500	6.000	6.000	5.250	0.500	5.250	0.550	33.88*	41.39	38.36	37.64*
UP37505250-625	6.000	6.000	5.250	0.625	5.250	0.688	33.88*	41.39	38.36	37.64*

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

UP SERIES - AU

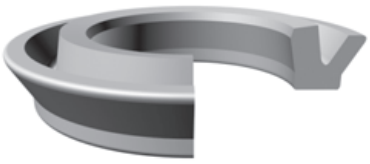
Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP50005250-625	6.250	6.250	5.250	0.625	5.250	0.656	---	44.57*	---	---
UP50005250-750	6.250	6.250	5.250	0.750	5.250	0.781	---	76.46	---	---
UP31205375-375	6.000	6.000	5.375	0.375	5.375	0.406	---	44.43*	---	---
UP31205375-500	6.000	6.000	5.375	0.500	5.375	0.531	---	41.39*	---	---
UP31205375-625	6.000	6.000	5.375	0.625	5.375	0.688	27.75*	46.97*	---	30.83
UP25005500	6.000	6.000	5.500	0.250	5.500	0.275	26.09*	35.39*	29.57	28.99*
UP25005500-375	6.000	6.000	5.500	0.375	5.500	0.413	26.34*	35.39	29.57	29.26*
UP25005500-500	6.000	6.000	5.500	0.500	5.500	0.531	---	35.39*	---	---
UP25005500-562	6.000	6.000	5.500	0.562	5.500	0.618	26.58*	35.39*	29.57	29.54*
UP37505500	6.250	6.250	5.500	0.375	5.500	0.406	---	41.75	---	---
UP37505500-437	6.250	6.250	5.500	0.437	5.500	0.468	---	57.22*	---	---
UP37505500-500	6.250	6.250	5.500	0.500	5.500	0.550	35.49*	---	---	39.44*
UP50005500-625	6.500	6.500	5.500	0.625	5.500	0.656	---	45.38*	---	---
UP50005500-750	6.500	6.500	5.500	0.750	5.500	0.781	---	77.92*	---	---
UP25005750-562	6.250	6.250	5.750	0.562	5.750	0.618	---	---	33.24	---
UP37505750-500	6.500	6.500	5.750	0.500	5.750	0.531	---	60.44*	---	---
UP37505750-625	6.500	6.500	5.750	0.625	5.750	0.688	37.11*	42.03*	51.07*	41.23
UP25006000-562	6.500	6.500	6.000	0.562	6.000	0.593	---	48.82*	---	---
UP37506000-500	6.750	6.750	6.000	0.500	6.000	0.531	---	50.97*	---	---
UP37506000-625	6.750	6.750	6.000	0.625	6.000	0.656	---	62.98*	---	---
UP50006000-750	7.000	7.000	6.000	0.750	6.000	0.781	---	95.78	---	---
UP37506250	6.250	7.000	6.250	0.375	6.250	0.413	---	73.12	43.75	---
UP37506250-500	7.000	7.000	6.250	0.500	6.250	0.550	37.77*	70.72	43.75	41.96*
UP37506250-625	7.000	7.000	6.250	0.625	6.250	0.688	---	61.87*	44.17	44.50*
UP25006500	7.000	7.000	6.500	0.250	6.500	0.275	---	---	38.26	---
UP25006500-375	7.000	7.000	6.500	0.375	6.500	0.413	---	---	38.26	---
UP37506500	7.250	7.250	6.500	0.375	6.500	0.406	---	64.15*	---	---
UP37506500-500	7.250	7.250	6.500	0.500	6.500	0.531	---	66.20	---	---
UP37506500-625	7.250	7.250	6.500	0.625	6.500	0.656	---	63.11	---	---
UP50006500-590	7.500	7.500	6.500	0.590	6.500	0.621	---	80.66*	---	---
UP50006500-625	7.500	7.500	6.500	0.625	6.500	0.656	---	66.35*	---	---
UP50006500-750	7.500	7.500	6.500	0.750	6.500	0.781	---	66.35*	---	---
UP37506750-500	7.500	7.500	6.750	0.500	6.750	0.531	---	65.83*	---	---
UP37506750-625	7.500	7.500	6.750	0.625	6.750	0.688	40.79*	70.79	---	45.32*
UP50007000	8.000	8.000	7.000	0.500	7.000	0.531	---	102.39	---	---
UP50007000-625	8.000	8.000	7.000	0.625	7.000	0.656	---	88.86*	---	---
UP50007000-750	8.000	8.000	7.000	0.750	7.000	0.781	---	71.05	---	---
UP37507250	8.000	8.000	7.250	0.375	7.250	0.413	43.38*	90.22	---	48.20*
UP37507250-500	8.000	8.000	7.250	0.500	7.250	0.550	43.38*	71.05	---	48.20*
UP37507250-625	8.000	8.000	7.250	0.625	7.250	0.688	---	71.05	51.04	---
UP25007500	8.000	8.000	7.500	0.250	7.500	0.275	---	---	63.54	---
UP50007500-625	8.500	8.500	7.500	0.625	7.500	0.656	---	74.26*	---	---
UP50007500-750	8.500	8.500	7.500	0.750	7.500	0.781	---	105.90	---	---
UP50008000-625	9.000	9.000	8.000	0.625	8.000	0.656	---	96.87*	---	---
UP50008000-750	9.000	9.000	8.000	0.750	8.000	0.825	---	80.86	70.36*	---
UP37508250-625	9.000	9.000	8.250	0.625	8.250	0.688	48.40*	---	---	53.78
UP50009000-625	10.000	10.000	9.000	0.625	9.000	0.656	---	134.90	---	---
UP50009000-750	10.000	10.000	9.000	0.750	9.000	0.800	79.20*	106.58*	73.50	88.00*

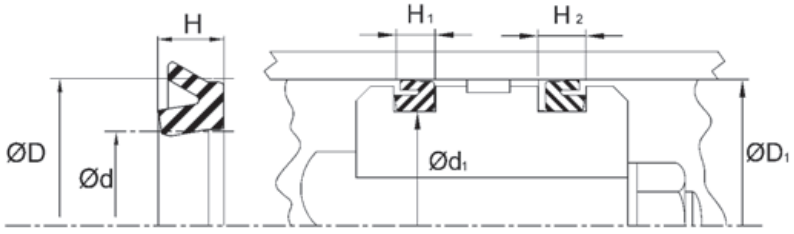
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore Diameter	Nominal Seal Dimensions			Housing Dimensions		$			
		D	d	H	d1	H1	STD	9250	606	4615
UP37509250	10.000	10.000	9.250	0.375	9.250	0.413	---	---	71.74*	---
UP50009500-625	10.500	10.500	9.500	0.625	9.500	0.656	---	122.55*	---	---
UP50010000-625	11.000	11.000	10.000	0.625	10.000	0.656	---	183.88*	---	---
UP50010000-750	11.000	11.000	10.000	0.750	10.000	0.781	---	118.21	---	---
UP50011000-625	12.000	12.000	11.000	0.625	11.000	0.656	---	130.76	---	---
UP50011000-750	12.000	12.000	11.000	0.750	11.000	0.781	---	177.01	---	---
UP62514750-750	16.000	16.000	14.750	0.750	14.750	0.781	---	350.16*	---	---
UP62514750-1000	16.000	16.000	14.750	1.000	14.750	1.031	---	377.60*	---	---

KP - Piston Seals

Polyurethane AU 92A





Temperature: -40/230F [-40/110C] **Pressure: 230 PSI [16 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
KP125-01500/607	1.500	+.006 / -.000	1.500	1.250	0.125	1.500	+.006 / -.000	1.250	+.003 / -.003	0.138	+.010 / -.000	5.89
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	5.89
KP187-01625/607*	1.625	+.006 / -.000	1.625	1.250	0.187	1.625	+.006 / -.000	1.250	+.003 / -.003	0.218	+.010 / -.000	7.43
KP125-02000/607	2.000	+.007 / -.000	2.000	1.750	0.125	2.000	+.007 / -.000	1.750	+.003 / -.003	0.138	+.010 / -.000	7.82
KP187-02000/607*	2.000	+.007 / -.000	2.000	1.625	0.187	2.000	+.007 / -.000	1.625	+.003 / -.003	0.218	+.010 / -.000	8.10
KP187-02000/PS	2.000	+.007 / -.000	2.000	1.625	0.187	2.000	+.007 / -.000	1.625	+.003 / -.003	0.218	+.010 / -.000	6.86
KP187-02500/607	2.500	+.007 / -.000	2.500	2.125	0.187	2.500	+.007 / -.000	2.125	+.004 / -.004	0.218	+.010 / -.000	8.73
KP250-03000/607	3.000	+.007 / -.000	3.000	2.500	0.250	3.000	+.007 / -.000	2.500	+.004 / -.004	0.275	+.010 / -.000	11.02
KP312-03000/607	3.000	+.007 / -.000	3.000	2.375	0.312	3.000	+.007 / -.000	2.375	+.004 / -.004	0.344	+.010 / -.000	12.88
KP218-03250/607	3.250	+.007 / -.000	3.250	2.812	0.218	3.250	+.007 / -.000	2.812	+.004 / -.004	0.275	+.010 / -.000	11.52
KP250-03250/607	3.250	+.007 / -.000	3.250	2.750	0.250	3.250	+.007 / -.000	2.750	+.004 / -.004	0.275	+.010 / -.000	12.31
KP250-03250/PS*	3.250	+.007 / -.000	3.250	2.750	0.250	3.250	+.007 / -.000	2.750	+.004 / -.004	0.275	+.010 / -.000	16.55
KP250-03500/PS	3.500	+.007 / -.000	3.500	3.000	0.250	3.500	+.007 / -.000	3.000	+.004 / -.004	0.275	+.010 / -.000	16.61
KP250-04000/607	4.000	+.009 / -.000	4.000	3.500	0.250	4.000	+.009 / -.000	3.500	+.004 / -.004	0.275	+.010 / -.000	15.05
KP375-04000/607	4.000	+.009 / -.000	4.000	3.250	0.375	4.000	+.009 / -.000	3.250	+.004 / -.004	0.413	+.010 / -.000	15.42
KP250-04500/PS	4.500	+.009 / -.000	4.500	4.000	0.250	4.500	+.009 / -.000	4.000	+.004 / -.004	0.275	+.010 / -.000	16.67
KP250-05000/607	5.000	+.010 / -.000	5.000	4.500	0.250	5.000	+.010 / -.000	4.500	+.004 / -.004	0.275	+.010 / -.000	28.11
KP250-05000/PS	5.000	+.010 / -.000	5.000	4.500	0.250	5.000	+.010 / -.000	4.500	+.004 / -.004	0.275	+.010 / -.000	28.11
KP375-05000/607	5.000	+.010 / -.000	5.000	4.250	0.375	5.000	+.010 / -.000	4.250	+.004 / -.004	0.413	+.010 / -.000	28.50
KP250-05500/PS*	5.500	+.010 / -.000	5.500	5.000	0.250	5.500	+.010 / -.000	5.000	+.005 / -.005	0.275	+.010 / -.000	23.82
KP250-06000/607	6.000	+.010 / -.000	6.000	5.500	0.250	6.000	+.010 / -.000	5.500	+.005 / -.005	0.275	+.010 / -.000	26.86
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	30.18

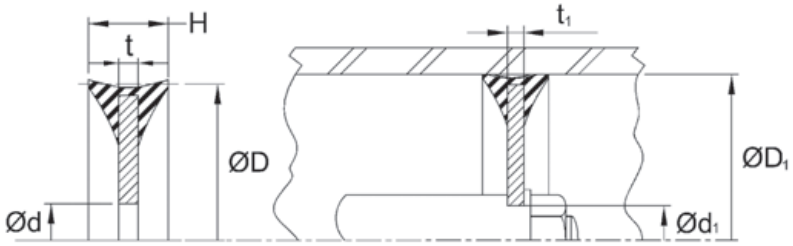
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

KP SERIES - AU 92A

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
KP437-06000/607	6.000	+.010 / -.000	6.000	5.125	0.437	6.000	+.010 / -.000	5.125	+.004 / -.004	0.480	+.010 / -.000	34.86
KP312-07000/607	7.000	+.010 / -.000	7.000	6.375	0.312	7.000	+.010 / -.000	6.375	+.005 / -.005	0.344	+.010 / -.000	38.03
KP375-07000/607*	7.000	+.010 / -.000	7.000	6.250	0.375	7.000	+.010 / -.000	6.250	+.005 / -.005	0.413	+.010 / -.000	39.76
KP375-07000/PS*	7.000	+.010 / -.000	7.000	6.250	0.375	7.000	+.010 / -.000	6.250	+.005 / -.005	0.413	+.010 / -.000	29.76
KP250-08000/607	8.000	+.011 / -.000	8.000	7.500	0.250	8.000	+.011 / -.000	7.500	+.006 / -.006	0.275	+.010 / -.000	45.94
KP312-08000/607	8.000	+.011 / -.000	8.000	7.375	0.312	8.000	+.011 / -.000	7.375	+.006 / -.006	0.344	+.010 / -.000	52.79
KP375-08000/607	8.000	+.011 / -.000	8.000	7.250	0.375	8.000	+.011 / -.000	7.250	+.006 / -.006	0.413	+.010 / -.000	45.94
KP250-10000/PS	10.000	+.013 / -.000	10.000	9.500	0.250	10.000	+.013 / -.000	9.500	+.006 / -.006	0.275	+.010 / -.000	62.20
KP375-10000/607	10.000	+.013 / -.000	10.000	9.250	0.375	10.000	+.013 / -.000	9.250	+.006 / -.006	0.413	+.010 / -.000	53.74
KP375-12000/607	12.000	+.013 / -.000	12.000	11.250	0.375	12.000	+.013 / -.000	11.250	+.006 / -.006	0.413	+.010 / -.000	62.76

CB - Piston Cups

Nitrile/Steel



Temperature: -40/250F [-40/121C] **Pressure: 150 PSI [10 BAR]**

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					25.04
CB-28118	1.125	+.003 / -.000	1.125	0.250	0.375	0.093					O/R
CB-28114*	1.250	+.003 / -.000	1.250	0.250	0.500	0.093					30.05
CB-281516*	1.312	+.003 / -.000	1.312	0.250	0.500	0.093					O/R
CB-28138*	1.375	+.003 / -.000	1.375	0.250	0.500	0.093					25.86
CB-28112*	1.500	+.003 / -.000	1.500	0.250	0.500	0.093					27.46
CB-28134*	1.750	+.003 / -.000	1.750	0.250	0.500	0.093					27.46
CB-28200*	2.000	+.003 / -.000	2.000	0.375	0.562	0.125					27.46
CB-28218*	2.125	+.003 / -.000	2.125	0.375	0.562	0.125					O/R
CB-28214*	2.250	+.003 / -.000	2.250	0.375	0.562	0.125					28.28
CB-28238*	2.375	+.003 / -.000	2.375	0.375	0.562	0.125					O/R
CB-28212	2.500	+.003 / -.000	2.500	0.375	0.562	0.125					35.35
CB-28258*	2.625	+.003 / -.000	2.625	0.375	0.562	0.125					O/R
CB-28234*	2.750	+.003 / -.000	2.750	0.375	0.562	0.125					O/R
CB-28300*	3.000	+.004 / -.000	3.000	0.500	0.562	0.125					40.02
CB-28314*	3.250	+.004 / -.000	3.250	0.500	0.625	0.125					62.18
CB-28312*	3.500	+.004 / -.000	3.500	0.500	0.750	0.187					59.56
CB-28358*	3.625	+.004 / -.000	3.625	0.500	0.750	0.187					O/R
CB-28334*	3.750	+.004 / -.000	3.750	0.500	0.750	0.187					O/R
CB-28400	4.000	+.004 / -.000	4.000	0.500	0.750	0.187					70.73
CB-28414*	4.250	+.004 / -.000	4.250	0.500	0.750	0.187					O/R

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

*** Minimums may apply ***

CB SERIES - NBR/STEEL

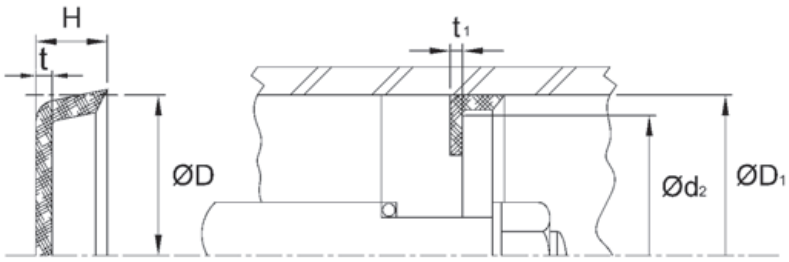
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d1	Tol.	t1	Tol.	
CB-28412	4.500	+.004 / -.000	4.500	0.750	0.750	0.187					O/R
CB-28500	5.000	+.004 / -.000	5.000	0.750	0.937	0.250					O/R
CB-28512*	5.500	+.004 / -.000	5.500	0.750	0.937	0.250					O/R
CB-28600	6.000	+.004 / -.000	6.000	0.750	0.937	0.250					O/R
CB-28612*	6.500	+.004 / -.000	6.500	0.750	0.937	0.250					O/R
CB-28700*	7.000	+.005 / -.000	7.000	1.250	1.000	0.250					O/R
CB-28800*	8.000	+.005 / -.000	8.000	1.250	1.000	0.250					O/R
CB-28900*	9.000	+.005 / -.000	9.000	1.250	1.000	0.250					O/R
CB-281000*	10.000	+.006 / -.000	10.000	1.250	1.000	0.250					O/R
CB-281200*	12.000	+.006 / -.000	12.000	1.250	1.000	0.250					O/R

*** Minimums may apply ****

CF - Piston Cups

Neo-Fabric

CENTER HOLE OPTIONAL



Temperature: -40/250F [-40/121C] **Pressure: 3000 PSI [210 BAR]**

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	0.125	+.016 / -.016	0.054	+.003 / -.000	5.66
CF004370250	0.437	+.003 / -.000	0.437		0.250	0.062	0.187	+.016 / -.016	0.054	+.003 / -.000	9.12
CF005000250	0.500	+.003 / -.000	0.500		0.250	0.062	0.250	+.016 / -.016	0.054	+.003 / -.000	5.79
CF005000500	0.500	+.003 / -.000	0.500		0.500	0.125	0.125	+.016 / -.016	0.116	+.003 / -.000	12.77
CF005620250*	0.562	+.003 / -.000	0.562		0.250	0.093	0.312	+.016 / -.016	0.085	+.003 / -.000	4.96
CF006250281	0.625	+.003 / -.000	0.625		0.281	0.093	0.375	+.016 / -.016	0.085	+.003 / -.000	6.26
CF006870281	0.687	+.003 / -.000	0.687		0.281	0.093	0.437	+.016 / -.016	0.085	+.003 / -.000	6.26
CF007500250	0.750	+.003 / -.000	0.750		0.250	0.093	0.500	+.016 / -.016	0.085	+.003 / -.000	6.26
CF007500312	0.750	+.003 / -.000	0.750		0.312	0.093	0.500	+.016 / -.016	0.085	+.003 / -.000	6.26
CF007500500*	0.750	+.003 / -.000	0.750		0.500	0.125	0.375	+.016 / -.016	0.116	+.003 / -.000	6.26
CF008750375	0.875	+.003 / -.000	0.875		0.375	0.093	0.625	+.016 / -.016	0.085	+.003 / -.000	10.82
CF009370500	0.937	+.003 / -.000	0.937		0.500	0.125	0.562	+.016 / -.016	0.116	+.003 / -.000	19.49
CF010000250*	1.000	+.003 / -.000	1.000		0.250	0.125	0.625	+.016 / -.016	0.116	+.003 / -.000	6.18
CF010000437*	1.000	+.003 / -.000	1.000		0.437	0.093	0.750	+.016 / -.016	0.085	+.003 / -.000	19.49
CF010000500*	1.000	+.003 / -.000	1.000		0.500	0.093	0.750	+.016 / -.016	0.085	+.003 / -.000	6.88
CF010000500-1	1.000	+.003 / -.000	1.000		0.500	0.125	0.625	+.016 / -.016	0.116	+.003 / -.000	7.29
CF011250437*	1.125	+.003 / -.000	1.125		0.437	0.093	0.875	+.016 / -.016	0.085	+.003 / -.000	6.93
CF011250500	1.125	+.003 / -.000	1.125		0.500	0.125	0.750	+.016 / -.016	0.116	+.003 / -.000	19.51
CF012500375	1.250	+.003 / -.000	1.250		0.375	0.093	1.000	+.016 / -.016	0.085	+.003 / -.000	7.72
CF012500437*	1.250	+.003 / -.000	1.250		0.437	0.093	1.000	+.016 / -.016	0.085	+.003 / -.000	7.24

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

CF SERIES - NEO-FABRIC

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CF012500500	1.250	+.003 / -.000	1.250		0.500	0.125	0.875	+.016 / -.016	0.116	+.003 / -.000	8.43
CF013750500	1.375	+.003 / -.000	1.375		0.500	0.125	1.000	+.016 / -.016	0.116	+.003 / -.000	8.81
CF015000375	1.500	+.003 / -.000	1.500		0.375	0.125	1.125	+.016 / -.016	0.116	+.003 / -.000	9.03
CF015000500	1.500	+.003 / -.000	1.500		0.500	0.125	1.125	+.016 / -.016	0.116	+.003 / -.000	8.52
CF016250500	1.625	+.003 / -.000	1.625		0.500	0.125	1.250	+.016 / -.016	0.116	+.003 / -.000	20.87
CF017500375*	1.750	+.003 / -.000	1.750		0.375	0.093	1.500	+.016 / -.016	0.085	+.003 / -.000	9.79
CF017500500	1.750	+.003 / -.000	1.750		0.500	0.125	1.375	+.016 / -.016	0.116	+.003 / -.000	10.54
CF018120375*	1.812	+.003 / -.000	1.812		0.375	0.125	1.437	+.016 / -.016	0.116	+.003 / -.000	21.54
CF018750500	1.875	+.003 / -.000	1.875		0.500	0.125	1.500	+.016 / -.016	0.116	+.003 / -.000	10.13
CF020000500	2.000	+.003 / -.000	2.000		0.500	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	10.49
CF020000500-1	2.000	+.003 / -.000	2.000		0.500	0.156	1.500	+.016 / -.016	0.146	+.003 / -.000	12.19
CF020000500-2*	2.000	+.003 / -.000	2.000		0.500	0.187	1.500	+.016 / -.016	0.178	+.003 / -.000	12.72
CF020000750*	2.000	+.003 / -.000	2.000		0.750	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	13.30
CF021250375*	2.125	+.003 / -.000	2.125		0.375	0.125	1.750	+.016 / -.016	0.116	+.003 / -.000	21.61
CF021250500	2.125	+.003 / -.000	2.125		0.500	0.125	1.750	+.016 / -.016	0.116	+.003 / -.000	13.23
CF022500500	2.250	+.003 / -.000	2.250		0.500	0.125	1.875	+.016 / -.016	0.116	+.003 / -.000	10.97
CF023750500	2.375	+.003 / -.000	2.375		0.500	0.125	2.000	+.016 / -.016	0.116	+.003 / -.000	10.97
CF025000500	2.500	+.003 / -.000	2.500		0.500	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	10.91
CF025000500-1*	2.500	+.003 / -.000	2.500		0.500	0.156	2.000	+.016 / -.016	0.146	+.003 / -.000	13.97
CF025000562*	2.500	+.003 / -.000	2.500		0.562	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	13.97
CF025000562-1	2.500	+.003 / -.000	2.500		0.562	0.187	2.000	+.016 / -.016	0.178	+.003 / -.000	13.97
CF026250500*	2.625	+.003 / -.000	2.625		0.500	0.125	2.250	+.016 / -.016	0.116	+.003 / -.000	24.82
CF026250750*	2.625	+.003 / -.000	2.625		0.750	0.125	2.250	+.016 / -.016	0.116	+.003 / -.000	24.82
CF027500500	2.750	+.003 / -.000	2.750		0.500	0.125	2.375	+.016 / -.016	0.116	+.003 / -.000	12.93
CF028750500	2.875	+.003 / -.000	2.875		0.500	0.125	2.500	+.016 / -.016	0.116	+.003 / -.000	33.91
CF028750750*	2.875	+.003 / -.000	2.875		0.750	0.187	2.375	+.016 / -.016	0.178	+.003 / -.000	32.21
CF030000500	3.000	+.004 / -.000	3.000		0.500	0.125	2.625	+.016 / -.016	0.116	+.003 / -.000	15.08
CF030000500-1*	3.000	+.004 / -.000	3.000		0.500	0.156	2.500	+.016 / -.016	0.146	+.003 / -.000	15.08
CF030000562*	3.000	+.004 / -.000	3.000		0.562	0.125	2.625	+.016 / -.016	0.116	+.003 / -.000	15.08
CF030000625	3.000	+.004 / -.000	3.000		0.625	0.156	2.500	+.016 / -.016	0.146	+.003 / -.000	13.98
CF030000750	3.000	+.004 / -.000	3.000		0.750	0.187	2.500	+.016 / -.016	0.178	+.003 / -.000	23.19
CF031250625	3.125	+.004 / -.000	3.125		0.625	0.156	2.625	+.016 / -.016	0.146	+.003 / -.000	15.99
CF032500625	3.250	+.004 / -.000	3.250		0.625	0.156	2.750	+.016 / -.016	0.146	+.003 / -.000	17.60
CF032500625-1	3.250	+.004 / -.000	3.250		0.625	0.187	2.750	+.016 / -.016	0.178	+.003 / -.000	18.45
CF032500750*	3.250	+.004 / -.000	3.250		0.750	0.156	2.750	+.016 / -.016	0.146	+.003 / -.000	18.45
CF033120625*	3.312	+.004 / -.000	3.312		0.625	0.187	2.812	+.016 / -.016	0.178	+.003 / -.000	42.42
CF033750625*	3.375	+.004 / -.000	3.375		0.625	0.156	2.875	+.016 / -.016	0.146	+.003 / -.000	45.55
CF035000500	3.500	+.004 / -.000	3.500		0.500	0.125	3.125	+.016 / -.016	0.116	+.003 / -.000	18.45
CF035000562*	3.500	+.004 / -.000	3.500		0.562	0.125	3.125	+.016 / -.016	0.116	+.003 / -.000	18.45
CF035000625	3.500	+.004 / -.000	3.500		0.625	0.156	3.000	+.016 / -.016	0.146	+.003 / -.000	17.51
CF035000750	3.500	+.004 / -.000	3.500		0.750	0.187	3.000	+.016 / -.016	0.178	+.003 / -.000	24.20
CF036250625	3.625	+.004 / -.000	3.625		0.625	0.156	3.125	+.016 / -.016	0.146	+.003 / -.000	26.67
CF037500625	3.750	+.004 / -.000	3.750		0.625	0.125	3.375	+.016 / -.016	0.116	+.003 / -.000	22.34
CF037500750*	3.750	+.004 / -.000	3.750		0.750	0.187	3.250	+.016 / -.016	0.178	+.003 / -.000	20.90
CF038750625	3.875	+.004 / -.000	3.875		0.625	0.156	3.375	+.016 / -.016	0.146	+.003 / -.000	44.30
CF038750750*	3.875	+.004 / -.000	3.875		0.750	0.156	3.375	+.016 / -.016	0.146	+.003 / -.000	44.30
CF039370500*	3.937	+.004 / -.000	3.937		0.500	0.156	3.437	+.016 / -.016	0.146	+.003 / -.000	44.30
CF040000500*	4.000	+.004 / -.000	4.000		0.500	0.125	3.625	+.016 / -.016	0.116	+.003 / -.000	36.25

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

CF SERIES - NEO-FABRIC

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CF040000500-1*	4.000	+.004 / -.000	4.000		0.500	0.187	3.500	+.016 / -.016	0.178	+.003 / -.000	20.15
CF040000625	4.000	+.004 / -.000	4.000		0.625	0.156	3.500	+.016 / -.016	0.146	+.003 / -.000	19.72
CF040000750	4.000	+.004 / -.000	4.000		0.750	0.156	3.500	+.016 / -.016	0.146	+.003 / -.000	25.86
CF040000750-1*	4.000	+.004 / -.000	4.000		0.750	0.187	3.500	+.016 / -.016	0.178	+.003 / -.000	25.86
CF041250750	4.125	+.004 / -.000	4.125		0.750	0.187	3.625	+.016 / -.016	0.178	+.003 / -.000	48.32
CF042500625*	4.250	+.004 / -.000	4.250		0.625	0.156	3.750	+.016 / -.016	0.146	+.003 / -.000	49.91
CF042500750*	4.250	+.004 / -.000	4.250		0.750	0.187	3.750	+.016 / -.016	0.178	+.003 / -.000	26.24
CF045000562*	4.500	+.004 / -.000	4.500		0.562	0.125	4.125	+.016 / -.016	0.116	+.003 / -.000	26.45
CF045000625	4.500	+.004 / -.000	4.500		0.625	0.156	4.000	+.016 / -.016	0.146	+.003 / -.000	24.58
CF045000750	4.500	+.004 / -.000	4.500		0.750	0.156	4.000	+.016 / -.016	0.146	+.003 / -.000	32.01
CF046250625*	4.625	+.004 / -.000	4.625		0.625	0.156	4.125	+.016 / -.016	0.146	+.003 / -.000	50.13
CF047500625	4.750	+.004 / -.000	4.750		0.625	0.156	4.250	+.016 / -.016	0.146	+.003 / -.000	52.83
CF047500750*	4.750	+.004 / -.000	4.750		0.750	0.187	4.250	+.016 / -.016	0.178	+.003 / -.000	30.11
CF048750625*	4.875	+.004 / -.000	4.875		0.625	0.156	4.375	+.016 / -.016	0.146	+.003 / -.000	50.13
CF050000500	5.000	+.004 / -.000	5.000		0.500	0.187	4.500	+.016 / -.016	0.178	+.003 / -.000	32.01
CF050000750	5.000	+.004 / -.000	5.000		0.750	0.187	4.500	+.016 / -.016	0.178	+.003 / -.000	30.05
CF050001000	5.000	+.004 / -.000	5.000		1.000	0.187	4.500	+.016 / -.016	0.178	+.003 / -.000	33.07
CF052500750	5.250	+.004 / -.000	5.250		0.750	0.187	4.750	+.016 / -.016	0.178	+.003 / -.000	31.02
CF055000750	5.500	+.004 / -.000	5.500		0.750	0.187	5.000	+.016 / -.016	0.178	+.003 / -.000	31.61
CF057500750	5.750	+.004 / -.000	5.750		0.750	0.187	5.250	+.016 / -.016	0.178	+.003 / -.000	44.94
CF058750750*	5.875	+.004 / -.000	5.875		0.750	0.187	5.375	+.016 / -.016	0.178	+.003 / -.000	48.42
CF060000750	6.000	+.004 / -.000	6.000		0.750	0.125	5.625	+.016 / -.016	0.116	+.003 / -.000	48.41
CF060000750-1	6.000	+.004 / -.000	6.000		0.750	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	44.94
CF060001000	6.000	+.004 / -.000	6.000		1.000	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	51.25
CF060001250*	6.000	+.004 / -.000	6.000		1.250	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	51.73
CF062500750*	6.250	+.004 / -.000	6.250		0.750	0.187	5.750	+.016 / -.016	0.178	+.003 / -.000	52.87
CF063750750*	6.375	+.004 / -.000	6.375		0.750	0.187	5.875	+.016 / -.016	0.178	+.003 / -.000	53.29
CF065000750*	6.500	+.004 / -.000	6.500		0.750	0.187	6.000	+.016 / -.016	0.178	+.003 / -.000	50.25
CF065001125*	6.500	+.004 / -.000	6.500		1.125	0.187	6.000	+.016 / -.016	0.178	+.003 / -.000	57.75
CF065001500*	6.500	+.004 / -.000	6.500		1.500	0.187	6.000	+.016 / -.016	0.178	+.003 / -.000	58.29
CF067500750*	6.750	+.005 / -.000	6.750		0.750	0.187	6.250	+.016 / -.016	0.178	+.003 / -.000	54.22
CF070000750	7.000	+.005 / -.000	7.000		0.750	0.187	6.500	+.016 / -.016	0.178	+.003 / -.000	54.22
CF070001500*	7.000	+.005 / -.000	7.000		1.500	0.187	6.500	+.016 / -.016	0.178	+.003 / -.000	60.33
CF072501000*	7.250	+.005 / -.000	7.250		1.000	0.187	6.750	+.016 / -.016	0.178	+.003 / -.000	62.30
CF075001000*	7.500	+.005 / -.000	7.500		1.000	0.187	7.000	+.016 / -.016	0.178	+.003 / -.000	64.20
CF080000750	8.000	+.005 / -.000	8.000		0.750	0.187	7.500	+.016 / -.016	0.178	+.003 / -.000	66.97
CF080001000	8.000	+.005 / -.000	8.000		1.000	0.187	7.500	+.016 / -.016	0.178	+.003 / -.000	64.16
CF080001000-1*	8.000	+.005 / -.000	8.000		1.000	0.250	7.375	+.016 / -.016	0.241	+.003 / -.000	95.05
CF080001250*	8.000	+.005 / -.000	8.000		1.250	0.187	7.500	+.016 / -.016	0.178	+.003 / -.000	98.52
CF085001000	8.500	+.005 / -.000	8.500		1.000	0.187	8.000	+.016 / -.016	0.178	+.003 / -.000	100.44
CF090000750*	9.000	+.005 / -.000	9.000		0.750	0.187	8.500	+.016 / -.016	0.178	+.003 / -.000	100.89
CF090001000	9.000	+.005 / -.000	9.000		1.000	0.187	8.500	+.016 / -.016	0.178	+.003 / -.000	94.81
CF095001000*	9.500	+.005 / -.000	9.500		1.000	0.187	9.000	+.016 / -.016	0.178	+.003 / -.000	106.97
CF097501000*	9.750	+.005 / -.000	9.750		1.000	0.187	9.250	+.016 / -.016	0.178	+.003 / -.000	106.97
CF100001000	10.000	+.005 / -.000	10.000		1.000	0.187	9.500	+.016 / -.016	0.178	+.003 / -.000	105.46
CF102501000*	10.250	+.005 / -.000	10.250		1.000	0.187	9.750	+.016 / -.016	0.178	+.003 / -.000	115.07
CF105001250*	10.500	+.005 / -.000	10.500		1.250	0.250	9.875	+.016 / -.016	0.241	+.003 / -.000	121.25
CF110001000*	11.000	+.006 / -.000	11.000		1.000	0.187	10.500	+.016 / -.016	0.178	+.003 / -.000	138.83

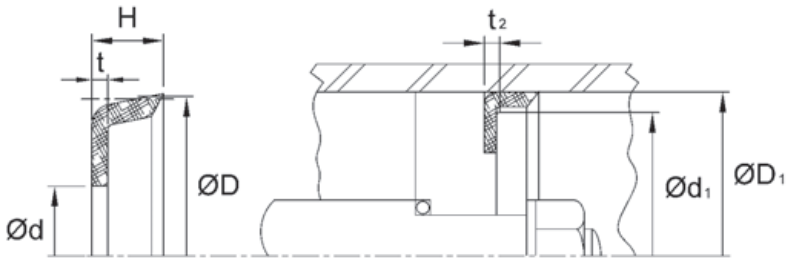
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

CF SERIES - NEO-FABRIC

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CF110001000-1*	11.000	+.006 / -.000	11.000		1.000	0.250	10.375	+.016 / -.016	0.241	+.003 / -.000	138.83
CF115001000	11.500	+.006 / -.000	11.500		1.000	0.187	11.000	+.016 / -.016	0.178	+.003 / -.000	157.10
CF120001000	12.000	+.006 / -.000	12.000		1.000	0.187	11.500	+.016 / -.016	0.178	+.003 / -.000	148.95
CF120001250*	12.000	+.006 / -.000	12.000		1.250	0.250	11.375	+.016 / -.016	0.241	+.003 / -.000	159.65
CF122501000*	12.250	+.006 / -.000	12.250		1.000	0.187	11.750	+.016 / -.016	0.178	+.003 / -.000	175.55
CF140001250*	14.000	+.006 / -.000	14.000		1.250	0.250	13.375	+.016 / -.016	0.241	+.003 / -.000	276.79
CF160001500*	16.000	+.006 / -.000	16.000		1.500	0.250	15.375	+.016 / -.016	0.241	+.003 / -.000	327.11
CF165001500*	16.500	+.006 / -.000	16.500		1.500	0.312	15.750	+.016 / -.016	0.303	+.003 / -.000	327.11
CF180001250*	18.000	+.006 / -.000	18.000		1.250	0.250	17.375	+.016 / -.016	0.241	+.003 / -.000	329.17
CF200001250*	20.000	+.006 / -.000	20.000		1.250	0.187	19.500	+.016 / -.016	0.178	+.003 / -.000	402.79

ECF - Piston Cups

Neo-Fabric



Temperature: -40/250F [-40/121C] **Pressure: 3000 PSI [210 BAR]**

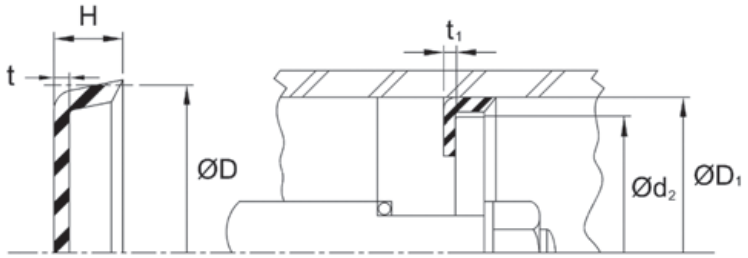
Ref.Number	Bore diameter		Nominal Seal Dimensions				References		$
		Tol.	D	d	H	t	DEL	EDBRO	
ECF020000750*	2.00	+.003 / -.000	2.00	0.625	0.750	0.218	DEL-4	ARC-4	12.96
ECF026250750*	2.63	+.003 / -.000	2.63	0.875	0.750	0.218	DEL-5	ARC-5	23.88
ECF032500750*	3.25	+.004 / -.000	3.25	1.000	0.750	0.218	DEL-7	ARC-7	25.73
ECF038750750*	3.88	+.004 / -.000	3.88	1.125	0.750	0.218	DEL-13	ARC-13	29.42
ECF047500750*	4.75	+.004 / -.000	4.75	1.250	0.750	0.218	DEL-15	ARC-15	35.39
ECF057500750*	5.75	+.004 / -.000	5.75	1.500	0.750	0.218	DEL-23/1	ARC-23/1	42.00

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

CH - Piston Cups

Nitrile NBR 80/90A

CENTER HOLE OPTIONAL



Temperature: -40/250F [-40/121C] **Pressure: 150 PSI [10 BAR]**

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	3.65
CH005620250*	0.562	+.003 / -.000	0.562		0.250	0.093	0.312	+.016 / -.016	0.085	+.003 / -.000	3.94
CH006250500	0.625	+.003 / -.000	0.625		0.500	0.093	0.375	+.016 / -.016	0.085	+.003 / -.000	4.28
CH007500250	0.750	+.003 / -.000	0.750		0.250	0.093	0.500	+.016 / -.016	0.085	+.003 / -.000	4.46
CH007500250-1*	0.750	+.003 / -.000	0.750		0.250	0.109	0.500	+.016 / -.016	0.101	+.003 / -.000	4.46
CH007500500	0.750	+.003 / -.000	0.750		0.500	0.125	0.375	+.016 / -.016	0.116	+.003 / -.000	4.46
CH009370500	0.937	+.003 / -.000	0.937		0.500	0.125	0.562	+.016 / -.016	0.116	+.003 / -.000	7.70
CH010000250	1.000	+.003 / -.000	1.000		0.250	0.062	0.750	+.016 / -.016	0.054	+.003 / -.000	5.27
CH010000500	1.000	+.003 / -.000	1.000		0.500	0.125	0.625	+.016 / -.016	0.116	+.003 / -.000	7.87
CH011250500	1.125	+.003 / -.000	1.125		0.500	0.125	0.750	+.016 / -.016	0.116	+.003 / -.000	7.94
CH012500250	1.250	+.003 / -.000	1.250		0.250	0.062	1.000	+.016 / -.016	0.054	+.003 / -.000	9.97
CH012500500	1.250	+.003 / -.000	1.250		0.500	0.125	0.875	+.016 / -.016	0.116	+.003 / -.000	5.32
CH013750437	1.375	+.003 / -.000	1.375		0.437	0.093	1.125	+.016 / -.016	0.085	+.003 / -.000	5.68
CH013750500	1.375	+.003 / -.000	1.375		0.500	0.125	1.000	+.016 / -.016	0.116	+.003 / -.000	5.43
CH014370375*	1.437	+.003 / -.000	1.437		0.375	0.125	1.062	+.016 / -.016	0.116	+.003 / -.000	5.69
CH015000375	1.500	+.003 / -.000	1.500		0.375	0.093	1.250	+.016 / -.016	0.085	+.003 / -.000	5.69
CH015000500	1.500	+.003 / -.000	1.500		0.500	0.125	1.125	+.016 / -.016	0.116	+.003 / -.000	5.43
CH016250500*	1.625	+.003 / -.000	1.625		0.500	0.125	1.250	+.016 / -.016	0.116	+.003 / -.000	5.26
CH016870500*	1.687	+.003 / -.000	1.687		0.500	0.187	1.187	+.016 / -.016	0.178	+.003 / -.000	5.87
CH017500500	1.750	+.003 / -.000	1.750		0.500	0.125	1.375	+.016 / -.016	0.116	+.003 / -.000	5.77
CH018750500	1.875	+.003 / -.000	1.875		0.500	0.125	1.500	+.016 / -.016	0.116	+.003 / -.000	10.24
CH020000375	2.000	+.003 / -.000	2.000		0.375	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	6.32
CH020000500	2.000	+.003 / -.000	2.000		0.500	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	6.03
CH020000625*	2.000	+.003 / -.000	2.000		0.625	0.156	1.500	+.016 / -.016	0.146	+.003 / -.000	6.32
CH021870375*	2.187	+.003 / -.000	2.187		0.375	0.125	1.812	+.016 / -.016	0.116	+.003 / -.000	6.68
CH022500500	2.250	+.003 / -.000	2.250		0.500	0.125	1.875	+.016 / -.016	0.116	+.003 / -.000	6.48
CH023750500	2.375	+.003 / -.000	2.375		0.500	0.125	2.000	+.016 / -.016	0.116	+.003 / -.000	6.68
CH025000375*	2.500	+.003 / -.000	2.500		0.375	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	7.78
CH025000437*	2.500	+.003 / -.000	2.500		0.437	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	7.78
CH025000500	2.500	+.003 / -.000	2.500		0.500	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	6.85
CH025000625	2.500	+.003 / -.000	2.500		0.625	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	7.78
CH025000625-1*	2.500	+.003 / -.000	2.500		0.625	0.156	2.000	+.016 / -.016	0.146	+.003 / -.000	7.78
CH026250500	2.625	+.003 / -.000	2.625		0.500	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	7.03
CH027500500	2.750	+.003 / -.000	2.750		0.500	0.125	2.375	+.016 / -.016	0.116	+.003 / -.000	7.21
CH028750500*	2.875	+.003 / -.000	2.875		0.500	0.125	2.500	+.016 / -.016	0.116	+.003 / -.000	7.44
CH030000500	3.000	+.004 / -.000	3.000		0.500	0.125	2.625	+.016 / -.016	0.116	+.003 / -.000	7.85
CH030000500-1*	3.000	+.004 / -.000	3.000		0.500	0.156	2.500	+.016 / -.016	0.146	+.003 / -.000	7.85
CH030000531*	3.000	+.004 / -.000	3.000		0.531	0.093	2.750	+.016 / -.016	0.085	+.003 / -.000	7.85

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

CH SERIES - NBR 80/90A

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CH030000625	3.000	+.004 / -.000	3.000		0.625	0.156	2.500	+.016 / -.016	0.146	+.003 / -.000	7.86
CH031250625*	3.125	+.004 / -.000	3.125		0.625	0.156	2.625	+.016 / -.016	0.146	+.003 / -.000	7.35
CH032500500	3.250	+.004 / -.000	3.250		0.500	0.125	2.875	+.016 / -.016	0.116	+.003 / -.000	8.38
CH032500625	3.250	+.004 / -.000	3.250		0.625	0.156	2.750	+.016 / -.016	0.146	+.003 / -.000	9.05
CH035000500	3.500	+.004 / -.000	3.500		0.500	0.125	3.125	+.016 / -.016	0.116	+.003 / -.000	8.85
CH035000625	3.500	+.004 / -.000	3.500		0.625	0.125	3.125	+.016 / -.016	0.116	+.003 / -.000	17.16
CH035000625-1*	3.500	+.004 / -.000	3.500		0.625	0.156	3.000	+.016 / -.016	0.146	+.003 / -.000	15.88
CH035000750*	3.500	+.004 / -.000	3.500		0.750	0.187	3.000	+.016 / -.016	0.178	+.003 / -.000	8.85
CH036250625	3.625	+.004 / -.000	3.625		0.625	0.156	3.125	+.016 / -.016	0.146	+.003 / -.000	8.85
CH037500500	3.750	+.004 / -.000	3.750		0.500	0.125	3.375	+.016 / -.016	0.116	+.003 / -.000	9.95
CH037500625*	3.750	+.004 / -.000	3.750		0.625	0.156	3.250	+.016 / -.016	0.146	+.003 / -.000	16.42
CH037500750*	3.750	+.004 / -.000	3.750		0.750	0.187	3.250	+.016 / -.016	0.178	+.003 / -.000	9.95
CH038750625	3.875	+.004 / -.000	3.875		0.625	0.125	3.500	+.016 / -.016	0.116	+.003 / -.000	9.95
CH040000500	4.000	+.004 / -.000	4.000		0.500	0.125	3.625	+.016 / -.016	0.116	+.003 / -.000	20.06
CH040000625	4.000	+.004 / -.000	4.000		0.625	0.156	3.500	+.016 / -.016	0.146	+.003 / -.000	9.67
CH040000750*	4.000	+.004 / -.000	4.000		0.750	0.125	3.625	+.016 / -.016	0.116	+.003 / -.000	30.97
CH040000750-1*	4.000	+.004 / -.000	4.000		0.750	0.187	3.500	+.016 / -.016	0.178	+.003 / -.000	10.13
CH042500625*	4.250	+.004 / -.000	4.250		0.625	0.156	3.750	+.016 / -.016	0.146	+.003 / -.000	10.94
CH045000625	4.500	+.004 / -.000	4.500		0.625	0.125	4.125	+.016 / -.016	0.116	+.003 / -.000	17.58
CH045000625-1	4.500	+.004 / -.000	4.500		0.625	0.156	4.000	+.016 / -.016	0.146	+.003 / -.000	16.76
CH046250625*	4.625	+.004 / -.000	4.625		0.625	0.125	4.250	+.016 / -.016	0.116	+.003 / -.000	13.34
CH047500625*	4.750	+.004 / -.000	4.750		0.625	0.156	4.250	+.016 / -.016	0.146	+.003 / -.000	13.08
CH047500750	4.750	+.004 / -.000	4.750		0.750	0.156	4.250	+.016 / -.016	0.146	+.003 / -.000	14.17
CH050000625	5.000	+.004 / -.000	5.000		0.625	0.125	4.625	+.016 / -.016	0.116	+.003 / -.000	14.56
CH050000625-1*	5.000	+.004 / -.000	5.000		0.625	0.187	4.500	+.016 / -.016	0.178	+.003 / -.000	23.61
CH050000750	5.000	+.004 / -.000	5.000		0.750	0.187	4.500	+.016 / -.016	0.178	+.003 / -.000	15.01
CH051250750	5.125	+.004 / -.000	5.125		0.750	0.187	4.625	+.016 / -.016	0.178	+.003 / -.000	19.73
CH052500750	5.250	+.004 / -.000	5.250		0.750	0.187	4.750	+.016 / -.016	0.178	+.003 / -.000	17.88
CH055000750	5.500	+.004 / -.000	5.500		0.750	0.187	5.000	+.016 / -.016	0.178	+.003 / -.000	16.01
CH057500750*	5.750	+.004 / -.000	5.750		0.750	0.187	5.250	+.016 / -.016	0.178	+.003 / -.000	14.70
CH058750750*	5.875	+.004 / -.000	5.875		0.750	0.156	5.375	+.016 / -.016	0.146	+.003 / -.000	19.91
CH060000750	6.000	+.004 / -.000	6.000		0.750	0.156	5.500	+.016 / -.016	0.146	+.003 / -.000	18.73
CH060000750-1*	6.000	+.004 / -.000	6.000		0.750	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	17.88
CH060000875*	6.000	+.004 / -.000	6.000		0.875	0.125	5.625	+.016 / -.016	0.116	+.003 / -.000	20.33
CH060001000	6.000	+.004 / -.000	6.000		1.000	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	25.22
CH062500750*	6.250	+.004 / -.000	6.250		0.750	0.187	5.750	+.016 / -.016	0.178	+.003 / -.000	19.33
CH065000750	6.500	+.004 / -.000	6.500		0.750	0.187	6.000	+.016 / -.016	0.178	+.003 / -.000	20.54
CH070000625*	7.000	+.005 / -.000	7.000		0.625	0.125	6.625	+.016 / -.016	0.116	+.003 / -.000	25.43
CH070000750	7.000	+.005 / -.000	7.000		0.750	0.187	6.500	+.016 / -.016	0.178	+.003 / -.000	26.84
CH075000875*	7.500	+.005 / -.000	7.500		0.875	0.156	7.000	+.016 / -.016	0.146	+.003 / -.000	33.85
CH080000625*	8.000	+.005 / -.000	8.000		0.625	0.125	7.625	+.016 / -.016	0.116	+.003 / -.000	34.64
CH080000750*	8.000	+.005 / -.000	8.000		0.750	0.156	7.500	+.016 / -.016	0.146	+.003 / -.000	34.65
CH080000750-1	8.000	+.005 / -.000	8.000		0.750	0.187	7.500	+.016 / -.016	0.178	+.003 / -.000	33.07
CH080001000	8.000	+.005 / -.000	8.000		1.000	0.187	7.500	+.016 / -.016	0.178	+.003 / -.000	34.41
CH090000750	9.000	+.005 / -.000	9.000		0.750	0.187	8.500	+.016 / -.016	0.178	+.003 / -.000	40.44
CH090001000*	9.000	+.005 / -.000	9.000		1.000	0.187	8.500	+.016 / -.016	0.178	+.003 / -.000	38.72
CH095001000*	9.500	+.005 / -.000	9.500		1.000	0.187	9.000	+.016 / -.016	0.178	+.003 / -.000	40.55
CH100000750	10.000	+.005 / -.000	10.000		0.750	0.187	9.500	+.016 / -.016	0.178	+.003 / -.000	40.83

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

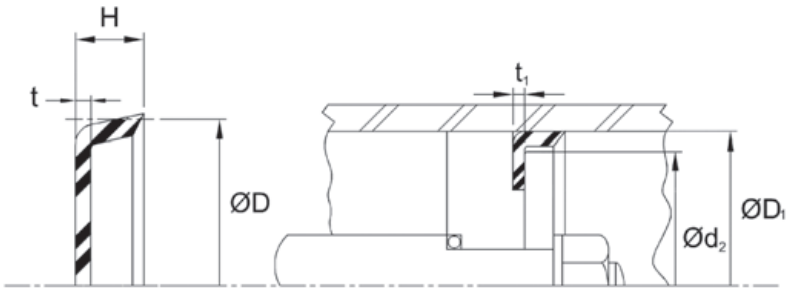
CH SERIES - NBR 80/90A

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CH100001000	10.000	+.005 / -.000	10.000		1.000	0.187	9.500	+.016 / -.016	0.178	+.003 / -.000	39.05
CH120000750*	12.000	+.006 / -.000	12.000		0.750	0.187	11.500	+.016 / -.016	0.178	+.003 / -.000	50.10
CH120001000	12.000	+.006 / -.000	12.000		1.000	0.187	11.500	+.016 / -.016	0.178	+.003 / -.000	69.16
CH130000750*	13.000	+.006 / -.000	13.000		0.750	0.187	12.500	+.016 / -.016	0.178	+.003 / -.000	74.03
CH140000812	14.000	+.006 / -.000	14.000		0.812	0.187	13.500	+.016 / -.016	0.178	+.003 / -.000	75.50
CH140001000*	14.000	+.006 / -.000	14.000		1.000	0.187	13.500	+.016 / -.016	0.178	+.003 / -.000	70.97
CH150001000*	15.000	+.006 / -.000	15.000		1.000	0.187	14.500	+.016 / -.016	0.178	+.003 / -.000	82.15
CH160000750	16.000	+.006 / -.000	16.000		0.750	0.187	15.500	+.016 / -.016	0.178	+.003 / -.000	83.71
CH180000750*	18.000	+.006 / -.000	18.000		0.750	0.250	17.375	+.016 / -.016	0.241	+.003 / -.000	88.91

CS - Piston Cups

Polyurethane AU 90A

CENTER HOLE OPTIONAL



Temperature: -65/200F [-54/93C] **Pressure: 1000 PSI [70 BAR]**

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	8.26
CS00500-250*	0.500	+.003 / -.000	0.500		0.250	0.093	0.250	+.016 / -.016	0.085	+.003 / -.000	8.26
CS00750-250*	0.750	+.003 / -.000	0.750		0.250	0.093	0.500	+.016 / -.016	0.085	+.003 / -.000	8.26
CS00750-375*	0.750	+.003 / -.000	0.750		0.375	0.093	0.500	+.016 / -.016	0.085	+.003 / -.000	8.26
CS00875-250	0.875	+.003 / -.000	0.875		0.250	0.093	0.625	+.016 / -.016	0.085	+.003 / -.000	8.26
CS00875-375	0.875	+.003 / -.000	0.875		0.375	0.093	0.625	+.016 / -.016	0.085	+.003 / -.000	12.19
CS01000-500	1.000	+.003 / -.000	1.000		0.500	0.125	0.625	+.016 / -.016	0.116	+.003 / -.000	8.60
CS01062-343*	1.062	+.003 / -.000	1.062		0.343	0.125	0.687	+.016 / -.016	0.116	+.003 / -.000	9.05
CS01062-500*	1.062	+.003 / -.000	1.062		0.500	0.125	0.687	+.016 / -.016	0.116	+.003 / -.000	9.30
CS01125-500	1.125	+.003 / -.000	1.125		0.500	0.125	0.750	+.016 / -.016	0.116	+.003 / -.000	9.34
CS01250-500	1.250	+.003 / -.000	1.250		0.500	0.125	0.875	+.016 / -.016	0.116	+.003 / -.000	10.27
CS01375-437	1.375	+.003 / -.000	1.375		0.437	0.125	1.000	+.016 / -.016	0.116	+.003 / -.000	10.90
CS01375-500	1.375	+.003 / -.000	1.375		0.500	0.125	1.000	+.016 / -.016	0.116	+.003 / -.000	10.90
CS01437-375*	1.437	+.003 / -.000	1.437		0.375	0.125	1.062	+.016 / -.016	0.116	+.003 / -.000	11.16
CS01437-500	1.437	+.003 / -.000	1.437		0.500	0.125	1.062	+.016 / -.016	0.116	+.003 / -.000	11.50
CS01500-500	1.500	+.003 / -.000	1.500		0.500	0.125	1.125	+.016 / -.016	0.116	+.003 / -.000	12.23
CS01625-375*	1.625	+.003 / -.000	1.625		0.375	0.187	1.125	+.016 / -.016	0.178	+.003 / -.000	13.22
CS01625-500	1.625	+.003 / -.000	1.625		0.500	0.125	1.250	+.016 / -.016	0.116	+.003 / -.000	13.22
CS01750-500	1.750	+.003 / -.000	1.750		0.500	0.125	1.375	+.016 / -.016	0.116	+.003 / -.000	14.18
CS01875-500	1.875	+.003 / -.000	1.875		0.500	0.125	1.500	+.016 / -.016	0.116	+.003 / -.000	15.26

*** : 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.	
CS01937-500*	1.937	+.003 / -.000	1.937		0.500	0.125	1.562	+.016 / -.016	0.116	+.003 / -.000	15.59
CS02000-500	2.000	+.003 / -.000	2.000		0.500	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	16.21
CS02125-500	2.125	+.003 / -.000	2.125		0.500	0.125	1.750	+.016 / -.016	0.116	+.003 / -.000	17.27
CS02250-500*	2.250	+.003 / -.000	2.250		0.500	0.125	1.875	+.016 / -.016	0.116	+.003 / -.000	18.29
CS02312-500*	2.312	+.003 / -.000	2.312		0.500	0.125	1.937	+.016 / -.016	0.116	+.003 / -.000	18.78
CS02375-500*	2.375	+.003 / -.000	2.375		0.500	0.125	2.000	+.016 / -.016	0.116	+.003 / -.000	19.28
CS02500-500	2.500	+.003 / -.000	2.500		0.500	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	20.28
CS02562-500*	2.562	+.003 / -.000	2.562		0.500	0.125	2.187	+.016 / -.016	0.116	+.003 / -.000	20.97
CS02562-625*	2.562	+.003 / -.000	2.562		0.625	0.187	2.062	+.016 / -.016	0.178	+.003 / -.000	20.55
CS02625-500*	2.625	+.003 / -.000	2.625		0.500	0.125	2.250	+.016 / -.016	0.116	+.003 / -.000	21.03
CS02750-625*	2.750	+.003 / -.000	2.750		0.625	0.187	2.250	+.016 / -.016	0.178	+.003 / -.000	22.35
CS02875-500*	2.875	+.003 / -.000	2.875		0.500	0.125	2.500	+.016 / -.016	0.116	+.003 / -.000	23.35
CS02875-625	2.875	+.003 / -.000	2.875		0.625	0.187	2.375	+.016 / -.016	0.178	+.003 / -.000	23.35
CS03000-625	3.000	+.004 / -.000	3.000		0.625	0.187	2.500	+.016 / -.016	0.178	+.003 / -.000	24.37
CS03250-500	3.250	+.004 / -.000	3.250		0.500	0.125	2.875	+.016 / -.016	0.116	+.003 / -.000	25.51
CS03250-625	3.250	+.004 / -.000	3.250		0.625	0.187	2.750	+.016 / -.016	0.178	+.003 / -.000	25.51
CS03375-625*	3.375	+.004 / -.000	3.375		0.625	0.187	2.875	+.016 / -.016	0.178	+.003 / -.000	26.30
CS03500-625	3.500	+.004 / -.000	3.500		0.625	0.187	3.000	+.016 / -.016	0.178	+.003 / -.000	28.25
CS03625-625*	3.625	+.004 / -.000	3.625		0.625	0.187	3.125	+.016 / -.016	0.178	+.003 / -.000	28.54
CS03750-500*	3.750	+.004 / -.000	3.750		0.500	0.187	3.250	+.016 / -.016	0.178	+.003 / -.000	29.37
CS03750-625*	3.750	+.004 / -.000	3.750		0.625	0.187	3.250	+.016 / -.016	0.178	+.003 / -.000	30.43
CS03937-750*	3.937	+.004 / -.000	3.937		0.750	0.187	3.437	+.016 / -.016	0.178	+.003 / -.000	30.45
CS04000-625	4.000	+.004 / -.000	4.000		0.625	0.187	3.500	+.016 / -.016	0.178	+.003 / -.000	32.28
CS04125-625*	4.125	+.004 / -.000	4.125		0.625	0.187	3.625	+.016 / -.016	0.178	+.003 / -.000	33.08
CS04250-500*	4.250	+.004 / -.000	4.250		0.500	0.187	3.750	+.016 / -.016	0.178	+.003 / -.000	34.29
CS04250-625*	4.250	+.004 / -.000	4.250		0.625	0.187	3.750	+.016 / -.016	0.178	+.003 / -.000	34.29
CS04375-750*	4.375	+.004 / -.000	4.375		0.750	0.187	3.875	+.016 / -.016	0.178	+.003 / -.000	34.30
CS04500-625	4.500	+.004 / -.000	4.500		0.625	0.187	4.000	+.016 / -.016	0.178	+.003 / -.000	36.26
CS04750-750*	4.750	+.004 / -.000	4.750		0.750	0.187	4.250	+.016 / -.016	0.178	+.003 / -.000	38.23
CS05000-625	5.000	+.004 / -.000	5.000		0.625	0.187	4.500	+.016 / -.016	0.178	+.003 / -.000	40.27
CS05000-750	5.000	+.004 / -.000	5.000		0.750	0.187	4.500	+.016 / -.016	0.178	+.003 / -.000	57.92
CS05250-750*	5.250	+.004 / -.000	5.250		0.750	0.187	4.750	+.016 / -.016	0.178	+.003 / -.000	41.14
CS05500-750	5.500	+.004 / -.000	5.500		0.750	0.187	5.000	+.016 / -.016	0.178	+.003 / -.000	44.23
CS05750-750*	5.750	+.004 / -.000	5.750		0.750	0.187	5.250	+.016 / -.016	0.178	+.003 / -.000	46.06
CS06000-625	6.000	+.004 / -.000	6.000		0.625	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	48.30
CS06000-750	6.000	+.004 / -.000	6.000		0.750	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	48.30
CS06000-875*	6.000	+.004 / -.000	6.000		0.875	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	47.95
CS06000-1000*	6.000	+.004 / -.000	6.000		1.000	0.187	5.500	+.016 / -.016	0.178	+.003 / -.000	48.30
CS06500-750	6.500	+.004 / -.000	6.500		0.750	0.187	6.000	+.016 / -.016	0.178	+.003 / -.000	51.45
CS06750-750*	6.750	+.005 / -.000	6.750		0.750	0.187	6.250	+.016 / -.016	0.178	+.003 / -.000	53.41
CS07000-750	7.000	+.005 / -.000	7.000		0.750	0.187	6.500	+.016 / -.016	0.178	+.003 / -.000	55.31
CS07000-1250*	7.000	+.005 / -.000	7.000		1.250	0.187	6.500	+.016 / -.016	0.178	+.003 / -.000	54.68
CS07500-1000*	7.500	+.005 / -.000	7.500		1.000	0.187	7.000	+.016 / -.016	0.178	+.003 / -.000	78.76
CS08000-750	8.000	+.005 / -.000	8.000		0.750	0.187	7.500	+.016 / -.016	0.178	+.003 / -.000	63.20
CS08000-1000	8.000	+.005 / -.000	8.000		1.000	0.187	7.500	+.016 / -.016	0.178	+.003 / -.000	63.20
CS08250-1000*	8.250	+.005 / -.000	8.250		1.000	0.187	7.750	+.016 / -.016	0.178	+.003 / -.000	65.08
CS08500-1000*	8.500	+.005 / -.000	8.500		1.000	0.187	8.000	+.016 / -.016	0.178	+.003 / -.000	66.92
CS09000-1000*	9.000	+.005 / -.000	9.000		1.000	0.187	8.500	+.016 / -.016	0.178	+.003 / -.000	71.01

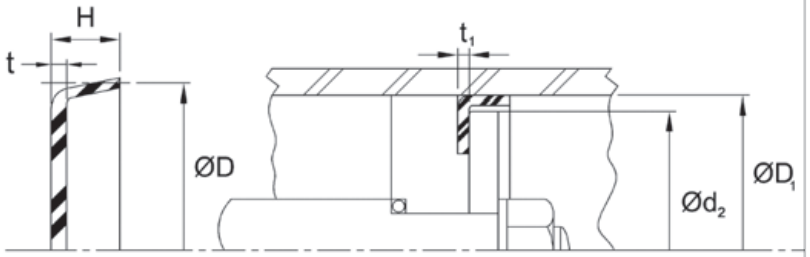
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CS09500-1000	9.500	+.005 / -.000	9.500		1.000	0.187	9.000	+.016 / -.016	0.178	+.003 / -.000	74.78
CS10000-750	10.000	+.005 / -.000	10.000		0.750	0.187	9.500	+.016 / -.016	0.178	+.003 / -.000	78.87
CS10000-1000	10.000	+.005 / -.000	10.000		1.000	0.187	9.500	+.016 / -.016	0.178	+.003 / -.000	78.87
CS10000-1250*	10.000	+.005 / -.000	10.000		1.250	0.187	9.500	+.016 / -.016	0.178	+.003 / -.000	77.99
CS10000-1500*	10.000	+.005 / -.000	10.000		1.500	0.187	9.500	+.016 / -.016	0.178	+.003 / -.000	78.87
CS10250-1250*	10.250	+.005 / -.000	10.250		1.250	0.187	9.750	+.016 / -.016	0.178	+.003 / -.000	86.60
CS11000-1250*	11.000	+.006 / -.000	11.000		1.250	0.187	10.500	+.016 / -.016	0.178	+.003 / -.000	110.82
CS11500-1250*	11.500	+.006 / -.000	11.500		1.250	0.187	11.000	+.016 / -.016	0.178	+.003 / -.000	126.86
CS12000-750*	12.000	+.006 / -.000	12.000		0.750	0.187	11.500	+.016 / -.016	0.178	+.003 / -.000	144.60
CS12000-1250*	12.000	+.006 / -.000	12.000		1.250	0.187	11.500	+.016 / -.016	0.178	+.003 / -.000	146.19
CS13000-750*	13.000	+.006 / -.000	13.000		0.750	0.187	12.500	+.016 / -.016	0.178	+.003 / -.000	154.38
CS13000-1000*	13.000	+.006 / -.000	13.000		1.000	0.187	12.500	+.016 / -.016	0.178	+.003 / -.000	156.09
CS13000-1250*	13.000	+.006 / -.000	13.000		1.250	0.187	12.500	+.016 / -.016	0.178	+.003 / -.000	156.09
CS14000-1250*	14.000	+.006 / -.000	14.000		1.250	0.187	13.500	+.016 / -.016	0.178	+.003 / -.000	164.09
CS16000-812*	16.000	+.006 / -.000	16.000		0.812	0.187	15.500	+.016 / -.016	0.178	+.003 / -.000	187.41
CS16000-1250*	16.000	+.006 / -.000	16.000		1.250	0.187	15.500	+.016 / -.016	0.178	+.003 / -.000	187.41
CS17500-1000*	17.500	+.006 / -.000	17.500		1.000	0.187	17.000	+.016 / -.016	0.178	+.003 / -.000	222.65

CT - Piston Cups

Polyurethane AU 90A

CENTER HOLE OPTIONAL



Temperature: -65/200F [-54/93C] **Pressure: 1000 PSI [70 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CT00437-250*	0.437	+.003 / -.000	0.437		0.250	0.062	0.187	+.016 / -.016	0.054	+.003 / -.000	4.63
CT00437-375*	0.437	+.003 / -.000	0.437		0.375	0.062	0.187	+.016 / -.016	0.054	+.003 / -.000	4.63
CT00437-187*	0.437	+.003 / -.000	0.437		0.187	0.093	0.187	+.016 / -.016	0.085	+.003 / -.000	4.63
CT00500-375*	0.500	+.003 / -.000	0.500		0.375	0.093	0.250	+.016 / -.016	0.085	+.003 / -.000	4.63
CT00625-234*	0.625	+.003 / -.000	0.625		0.234	0.093	0.375	+.016 / -.016	0.085	+.003 / -.000	4.19
CT00625-375	0.625	+.003 / -.000	0.625		0.375	0.093	0.375	+.016 / -.016	0.085	+.003 / -.000	4.71
CT00750-375*	0.750	+.003 / -.000	0.750		0.375	0.093	0.500	+.016 / -.016	0.085	+.003 / -.000	4.82
CT00875-250*	0.875	+.003 / -.000	0.875		0.250	0.093	0.625	+.016 / -.016	0.085	+.003 / -.000	8.48
CT00875-375*	0.875	+.003 / -.000	0.875		0.375	0.093	0.625	+.016 / -.016	0.085	+.003 / -.000	8.48
CT01000-437*	1.000	+.003 / -.000	1.000		0.437	0.093	0.750	+.016 / -.016	0.085	+.003 / -.000	4.88
CT01125-437	1.125	+.003 / -.000	1.125		0.437	0.093	0.875	+.016 / -.016	0.085	+.003 / -.000	5.62
CT01250-437	1.250	+.003 / -.000	1.250		0.437	0.093	1.000	+.016 / -.016	0.085	+.003 / -.000	6.08
CT01375-437	1.375	+.003 / -.000	1.375		0.437	0.093	1.125	+.016 / -.016	0.085	+.003 / -.000	6.45

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

CT SERIES - AU 90A

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CT01437-437*	1.437	+.003 / -.000	1.437		0.437	0.093	1.187	+.016 / -.016	0.085	+.003 / -.000	6.87
CT01500-437*	1.500	+.003 / -.000	1.500		0.437	0.093	1.250	+.016 / -.016	0.085	+.003 / -.000	7.24
CT01625-437*	1.625	+.003 / -.000	1.625		0.437	0.093	1.375	+.016 / -.016	0.085	+.003 / -.000	7.87
CT01750-437*	1.750	+.003 / -.000	1.750		0.437	0.093	1.500	+.016 / -.016	0.085	+.003 / -.000	8.45
CT01812-437*	1.812	+.003 / -.000	1.812		0.437	0.093	1.562	+.016 / -.016	0.085	+.003 / -.000	7.77
CT01875-437*	1.875	+.003 / -.000	1.875		0.437	0.093	1.625	+.016 / -.016	0.085	+.003 / -.000	9.09
CT01937-437*	1.937	+.003 / -.000	1.937		0.437	0.093	1.687	+.016 / -.016	0.085	+.003 / -.000	9.44
CT02000-312*	2.000	+.003 / -.000	2.000		0.312	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	9.71
CT02000-437	2.000	+.003 / -.000	2.000		0.437	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	9.71
CT02000-500	2.000	+.003 / -.000	2.000		0.500	0.125	1.625	+.016 / -.016	0.116	+.003 / -.000	9.71
CT02125-500*	2.125	+.003 / -.000	2.125		0.500	0.125	1.750	+.016 / -.016	0.116	+.003 / -.000	10.27
CT02250-500*	2.250	+.003 / -.000	2.250		0.500	0.125	1.875	+.016 / -.016	0.116	+.003 / -.000	10.88
CT02250-625*	2.250	+.003 / -.000	2.250		0.625	0.125	1.875	+.016 / -.016	0.116	+.003 / -.000	9.66
CT02312-500*	2.312	+.003 / -.000	2.312		0.500	0.125	1.937	+.016 / -.016	0.116	+.003 / -.000	10.03
CT02375-500*	2.375	+.003 / -.000	2.375		0.500	0.125	2.000	+.016 / -.016	0.116	+.003 / -.000	11.54
CT02500-500	2.500	+.003 / -.000	2.500		0.500	0.125	2.125	+.016 / -.016	0.116	+.003 / -.000	13.40
CT02625-500*	2.625	+.003 / -.000	2.625		0.500	0.125	2.250	+.016 / -.016	0.116	+.003 / -.000	12.47
CT02687-500*	2.687	+.003 / -.000	2.687		0.500	0.125	2.312	+.016 / -.016	0.116	+.003 / -.000	11.48
CT02750-500*	2.750	+.003 / -.000	2.750		0.500	0.125	2.375	+.016 / -.016	0.116	+.003 / -.000	13.26
CT02875-500	2.875	+.003 / -.000	2.875		0.500	0.125	2.500	+.016 / -.016	0.116	+.003 / -.000	14.18
CT02875-625*	2.875	+.003 / -.000	2.875		0.625	0.125	2.500	+.016 / -.016	0.116	+.003 / -.000	12.66
CT03000-500*	3.000	+.004 / -.000	3.000		0.500	0.125	2.625	+.016 / -.016	0.116	+.003 / -.000	13.58
CT03000-625	3.000	+.004 / -.000	3.000		0.625	0.125	2.625	+.016 / -.016	0.116	+.003 / -.000	15.23
CT03125-625*	3.125	+.004 / -.000	3.125		0.625	0.125	2.750	+.016 / -.016	0.116	+.003 / -.000	13.78
CT03250-625*	3.250	+.004 / -.000	3.250		0.625	0.125	2.875	+.016 / -.016	0.116	+.003 / -.000	15.63
CT03375-625*	3.375	+.004 / -.000	3.375		0.625	0.125	3.000	+.016 / -.016	0.116	+.003 / -.000	16.25
CT03500-625	3.500	+.004 / -.000	3.500		0.625	0.125	3.125	+.016 / -.016	0.116	+.003 / -.000	16.77
CT03750-625*	3.750	+.004 / -.000	3.750		0.625	0.125	3.375	+.016 / -.016	0.116	+.003 / -.000	18.04
CT04000-437*	4.000	+.004 / -.000	4.000		0.437	0.125	3.625	+.016 / -.016	0.116	+.003 / -.000	19.86
CT04000-500*	4.000	+.004 / -.000	4.000		0.500	0.125	3.625	+.016 / -.016	0.116	+.003 / -.000	17.73
CT04000-625	4.000	+.004 / -.000	4.000		0.625	0.125	3.625	+.016 / -.016	0.116	+.003 / -.000	19.86
CT04250-625*	4.250	+.004 / -.000	4.250		0.625	0.125	3.875	+.016 / -.016	0.116	+.003 / -.000	20.44
CT04500-625	4.500	+.004 / -.000	4.500		0.625	0.125	4.125	+.016 / -.016	0.116	+.003 / -.000	21.61
CT04750-750*	4.750	+.004 / -.000	4.750		0.750	0.125	4.375	+.016 / -.016	0.116	+.003 / -.000	22.77
CT05000-562*	5.000	+.004 / -.000	5.000		0.562	0.125	4.625	+.016 / -.016	0.116	+.003 / -.000	26.51
CT05000-750	5.000	+.004 / -.000	5.000		0.750	0.125	4.625	+.016 / -.016	0.116	+.003 / -.000	26.51
CT05250-750*	5.250	+.004 / -.000	5.250		0.750	0.125	4.875	+.016 / -.016	0.116	+.003 / -.000	30.22
CT05500-750*	5.500	+.004 / -.000	5.500		0.750	0.125	5.125	+.016 / -.016	0.116	+.003 / -.000	34.00
CT05750-750*	5.750	+.004 / -.000	5.750		0.750	0.125	5.375	+.016 / -.016	0.116	+.003 / -.000	37.61
CT06000-750	6.000	+.004 / -.000	6.000		0.750	0.125	5.625	+.016 / -.016	0.116	+.003 / -.000	58.01
CT06500-750*	6.500	+.004 / -.000	6.500		0.750	0.125	6.125	+.016 / -.016	0.116	+.003 / -.000	48.01
CT07000-750	7.000	+.004 / -.000	7.000		0.750	0.125	6.625	+.016 / -.016	0.116	+.003 / -.000	52.55
CT07500-750*	7.500	+.004 / -.000	7.500		0.750	0.125	7.125	+.016 / -.016	0.116	+.003 / -.000	56.25
CT08000-1000	8.000	+.005 / -.000	8.000		1.000	0.125	7.625	+.016 / -.016	0.116	+.003 / -.000	60.28
CT08750-1000*	8.750	+.005 / -.000	8.750		1.000	0.125	8.375	+.016 / -.016	0.116	+.003 / -.000	65.61
CT09000-1000*	9.000	+.005 / -.000	9.000		1.000	0.125	8.625	+.016 / -.016	0.116	+.003 / -.000	71.49
CT10000-1000*	10.000	+.005 / -.000	10.000		1.000	0.125	9.625	+.016 / -.016	0.116	+.003 / -.000	78.31
CT11000-1250*	11.000	+.006 / -.000	11.000		1.250	0.187	10.500	+.016 / -.016	0.178	+.003 / -.000	113.38

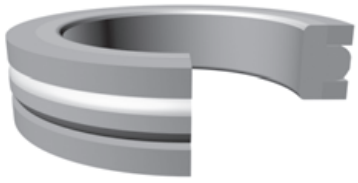
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

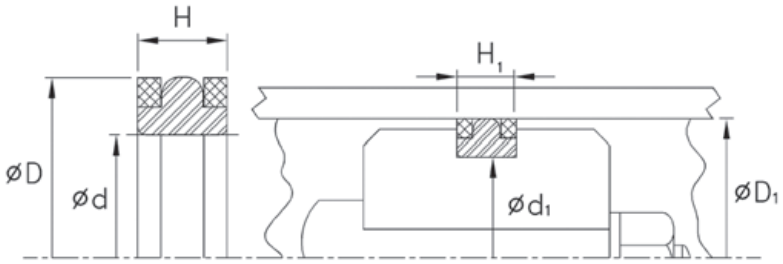
CT SERIES - AU 90A

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	H	t	d2	Tol.	t1	Tol.	
CT11500-1250*	11.500	+.006 / -.000	11.500		1.250	0.187	10.000	+.016 / -.016	0.178	+.003 / -.000	131.58
CT12000-1250*	12.000	+.006 / -.000	12.000		1.250	0.187	11.500	+.016 / -.016	0.178	+.003 / -.000	149.65
CT12500-1250*	12.500	+.006 / -.000	12.500		1.250	0.187	12.000	+.016 / -.016	0.178	+.003 / -.000	154.72
CT13000-750*	13.000	+.006 / -.000	13.000		0.750	0.187	12.500	+.016 / -.016	0.178	+.003 / -.000	159.75
CT13000-1000*	13.000	+.006 / -.000	13.000		1.000	0.187	12.500	+.016 / -.016	0.178	+.003 / -.000	159.75
CT13000-1250*	13.000	+.006 / -.000	13.000		1.250	0.187	12.500	+.016 / -.016	0.178	+.003 / -.000	159.75
CT13250-1250*	13.250	+.006 / -.000	13.250		1.250	0.187	12.750	+.016 / -.016	0.178	+.003 / -.000	164.01
CT14000-1250*	14.000	+.006 / -.000	14.000		1.250	0.187	13.500	+.016 / -.016	0.178	+.003 / -.000	171.54
CT15000-1250*	15.000	+.006 / -.000	15.000		1.250	0.187	14.500	+.016 / -.016	0.178	+.003 / -.000	183.86
CT16000-812*	16.000	+.006 / -.000	16.000		0.812	0.187	15.500	+.016 / -.016	0.178	+.003 / -.000	195.96
CT16000-1250*	16.000	+.006 / -.000	16.000		1.250	0.187	15.500	+.016 / -.016	0.178	+.003 / -.000	195.96

TP - Piston Seals

Nitrile/Nylon





Temperature: -75/250F [-60/120C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	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	4.14
TP-108*	0.437	+.003 / -.000	0.437	0.250		0.437	+.003 / -.000	0.252	+.002 / -.000	0.150	+.005 / -.000	4.45
TP-109	0.500	+.003 / -.000	0.500	0.312		0.500	+.003 / -.000	0.315	+.002 / -.000	0.150	+.005 / -.000	4.55
TP-203*	0.562	+.003 / -.000	0.562	0.312		0.562	+.003 / -.000	0.317	+.002 / -.000	0.185	+.005 / -.000	4.76
TP-204	0.625	+.003 / -.000	0.625	0.375		0.625	+.003 / -.000	0.380	+.002 / -.000	0.185	+.005 / -.000	5.11
TP-205	0.687	+.003 / -.000	0.687	0.437		0.687	+.003 / -.000	0.442	+.002 / -.000	0.185	+.005 / -.000	5.38
TP-206	0.750	+.003 / -.000	0.750	0.500		0.750	+.003 / -.000	0.505	+.002 / -.000	0.185	+.005 / -.000	5.74
TP-207	0.812	+.003 / -.000	0.812	0.562		0.812	+.003 / -.000	0.567	+.002 / -.000	0.185	+.005 / -.000	5.93
TP-208	0.875	+.003 / -.000	0.875	0.625		0.875	+.003 / -.000	0.630	+.002 / -.000	0.185	+.005 / -.000	6.26
TP-209*	0.937	+.003 / -.000	0.937	0.687		0.937	+.003 / -.000	0.692	+.002 / -.000	0.185	+.005 / -.000	6.62
TP-210	1.000	+.003 / -.000	1.000	0.750		1.000	+.003 / -.000	0.756	+.002 / -.000	0.185	+.005 / -.000	6.97
TP-211	1.062	+.003 / -.000	1.062	0.812		1.062	+.003 / -.000	0.818	+.002 / -.000	0.185	+.005 / -.000	8.47
TP-212	1.125	+.003 / -.000	1.125	0.875		1.125	+.003 / -.000	0.881	+.002 / -.000	0.185	+.005 / -.000	6.48
TP-213*	1.187	+.003 / -.000	1.187	0.937		1.187	+.003 / -.000	0.943	+.002 / -.000	0.185	+.005 / -.000	8.47
TP-214	1.250	+.003 / -.000	1.250	1.000		1.250	+.003 / -.000	1.006	+.002 / -.000	0.185	+.005 / -.000	7.37
TP-215*	1.312	+.003 / -.000	1.312	1.062		1.312	+.003 / -.000	1.068	+.002 / -.000	0.185	+.005 / -.000	4.48
TP-216	1.375	+.003 / -.000	1.375	1.125		1.375	+.003 / -.000	1.131	+.002 / -.000	0.185	+.005 / -.000	6.48
TP-217	1.437	+.003 / -.000	1.437	1.187		1.437	+.003 / -.000	1.193	+.002 / -.000	0.185	+.005 / -.000	8.47
TP-218	1.500	+.003 / -.000	1.500	1.250		1.500	+.003 / -.000	1.256	+.002 / -.000	0.185	+.005 / -.000	5.76

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

TP SERIES - NBR/NYLON

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
TP-218/V*	1.500	+.003 / -.000	1.500	1.250		1.500	+.003 / -.000	1.256	+.002 / -.000	0.185	+.005 / -.000	16.35
TP-219*	1.562	+.003 / -.000	1.562	1.312		1.562	+.003 / -.000	1.318	+.002 / -.000	0.185	+.005 / -.000	7.18
TP-220	1.625	+.003 / -.000	1.625	1.375		1.625	+.003 / -.000	1.381	+.002 / -.000	0.185	+.005 / -.000	7.37
TP-222	1.750	+.003 / -.000	1.750	1.500		1.750	+.003 / -.000	1.506	+.002 / -.000	0.185	+.005 / -.000	6.23
TP-325	1.875	+.003 / -.000	1.875	1.500		1.875	+.003 / -.000	1.502	+.002 / -.000	0.280	+.005 / -.000	8.47
TP-326	2.000	+.003 / -.000	2.000	1.625		2.000	+.003 / -.000	1.627	+.002 / -.000	0.280	+.005 / -.000	6.49
TP-326/V	2.000	+.003 / -.000	2.000	1.625		2.000	+.003 / -.000	1.627	+.002 / -.000	0.280	+.005 / -.000	60.45
TP-327	2.125	+.003 / -.000	2.125	1.750		2.125	+.003 / -.000	1.752	+.002 / -.000	0.280	+.005 / -.000	6.82
TP-328	2.250	+.003 / -.000	2.250	1.875		2.250	+.003 / -.000	1.877	+.002 / -.000	0.280	+.005 / -.000	7.24
TP-329	2.375	+.003 / -.000	2.375	2.000		2.375	+.003 / -.000	2.002	+.002 / -.000	0.280	+.005 / -.000	7.61
TP-330	2.500	+.003 / -.000	2.500	2.125		2.500	+.003 / -.000	2.127	+.002 / -.000	0.280	+.005 / -.000	8.04
TP-331	2.625	+.003 / -.000	2.625	2.250		2.625	+.003 / -.000	2.252	+.002 / -.000	0.280	+.005 / -.000	8.73
TP-332	2.750	+.003 / -.000	2.750	2.375		2.750	+.003 / -.000	2.377	+.003 / -.001	0.280	+.005 / -.000	8.84
TP-333	2.875	+.003 / -.000	2.875	2.500		2.875	+.003 / -.000	2.502	+.003 / -.001	0.280	+.005 / -.000	9.15
TP-334	3.000	+.004 / -.000	3.000	2.625		3.000	+.004 / -.000	2.627	+.003 / -.001	0.280	+.005 / -.000	9.50
TP-335	3.125	+.004 / -.000	3.125	2.750		3.125	+.004 / -.000	2.752	+.003 / -.001	0.280	+.005 / -.000	9.91
TP-336	3.250	+.004 / -.000	3.250	2.875		3.250	+.004 / -.000	2.877	+.003 / -.001	0.280	+.005 / -.000	11.04
TP-338	3.500	+.004 / -.000	3.500	3.125		3.500	+.004 / -.000	3.128	+.003 / -.001	0.280	+.005 / -.000	12.09
TP-339	3.625	+.004 / -.000	3.625	3.250		3.625	+.004 / -.000	3.253	+.003 / -.001	0.280	+.005 / -.001	13.15
TP-340	3.750	+.004 / -.000	3.750	3.375		3.750	+.004 / -.000	3.378	+.003 / -.001	0.280	+.005 / -.001	13.67
TP-341*	3.875	+.004 / -.000	3.875	3.500		3.875	+.004 / -.000	3.503	+.003 / -.001	0.280	+.005 / -.001	17.68
TP-342	4.000	+.004 / -.000	4.000	3.625		4.000	+.004 / -.000	3.628	+.003 / -.001	0.280	+.005 / -.001	15.24
TP-343	4.125	+.004 / -.000	4.125	3.750		4.125	+.004 / -.000	3.753	+.003 / -.001	0.280	+.005 / -.001	24.72
TP-343/L	4.125	+.004 / -.000	4.125	3.750		4.125	+.004 / -.000	3.753	+.003 / -.001	0.280	+.005 / -.001	24.99
TP-344	4.250	+.004 / -.000	4.250	3.875		4.250	+.004 / -.000	3.878	+.003 / -.001	0.280	+.005 / -.001	17.54
TP-345	4.375	+.004 / -.000	4.375	4.000		4.375	+.004 / -.000	4.003	+.003 / -.001	0.280	+.005 / -.001	18.58
TP-346	4.500	+.004 / -.000	4.500	4.125		4.500	+.004 / -.000	4.128	+.003 / -.001	0.280	+.005 / -.001	18.92
TP-347	4.625	+.004 / -.000	4.625	4.250		4.625	+.004 / -.000	4.253	+.003 / -.001	0.280	+.005 / -.001	23.11
TP-348	4.750	+.004 / -.000	4.750	4.375		4.750	+.004 / -.000	4.378	+.003 / -.001	0.280	+.005 / -.001	26.42
TP-348/L*	4.750	+.004 / -.000	4.750	4.375		4.750	+.004 / -.000	4.378	+.003 / -.001	0.280	+.005 / -.001	31.29
TP-349	4.875	+.004 / -.000	4.875	4.500		4.875	+.004 / -.000	4.503	+.003 / -.001	0.280	+.005 / -.001	26.57
TP-350	5.000	+.004 / -.000	5.000	4.625		5.000	+.004 / -.000	4.629	+.003 / -.001	0.280	+.005 / -.001	27.60
TP-426	5.125	+.004 / -.000	5.125	4.625		5.125	+.004 / -.000	4.649	+.003 / -.001	0.366	+.005 / -.001	33.02
TP-427	5.250	+.004 / -.000	5.250	4.750		5.250	+.004 / -.000	4.774	+.003 / -.001	0.366	+.005 / -.001	30.23
TP-428	5.375	+.004 / -.000	5.375	4.875		5.375	+.004 / -.000	4.889	+.003 / -.001	0.366	+.005 / -.001	31.85
TP-429	5.500	+.004 / -.000	5.500	5.000		5.500	+.004 / -.000	5.024	+.003 / -.001	0.366	+.005 / -.001	33.21
TP-430	5.625	+.004 / -.000	5.625	5.125		5.625	+.004 / -.000	5.149	+.003 / -.001	0.366	+.005 / -.001	34.35
TP-431	5.750	+.004 / -.000	5.750	5.250		5.750	+.004 / -.000	5.274	+.003 / -.001	0.366	+.005 / -.001	33.93
TP-432*	5.875	+.004 / -.000	5.875	5.375		5.875	+.004 / -.000	5.399	+.003 / -.001	0.366	+.005 / -.001	34.77
TP-433	6.000	+.004 / -.000	6.000	5.500		6.000	+.004 / -.000	5.524	+.003 / -.001	0.366	+.005 / -.001	36.65
TP-434*	6.125	+.004 / -.000	6.125	5.625		6.125	+.004 / -.000	5.649	+.003 / -.001	0.366	+.005 / -.001	38.72
TP-435	6.250	+.004 / -.000	6.250	5.750		6.250	+.004 / -.000	5.774	+.003 / -.001	0.366	+.005 / -.001	37.68
TP-437	6.500	+.004 / -.000	6.500	6.000		6.500	+.004 / -.000	6.024	+.004 / -.002	0.366	+.005 / -.001	37.77
TP-438	6.750	+.005 / -.000	6.750	6.250		6.750	+.005 / -.000	6.274	+.004 / -.002	0.366	+.005 / -.001	43.71
TP-439	7.000	+.005 / -.000	7.000	6.500		7.000	+.005 / -.000	6.524	+.004 / -.002	0.366	+.005 / -.001	43.85
TP-440	7.250	+.005 / -.000	7.250	6.750		7.250	+.005 / -.000	6.774	+.004 / -.002	0.366	+.005 / -.001	46.84
TP-441	7.500	+.005 / -.000	7.500	7.000		7.500	+.005 / -.000	7.024	+.004 / -.002	0.366	+.005 / -.001	47.93
TP-442	7.750	+.005 / -.000	7.750	7.250		7.750	+.005 / -.000	7.274	+.004 / -.002	0.366	+.005 / -.001	52.52

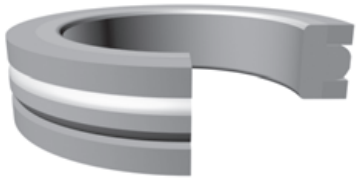
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

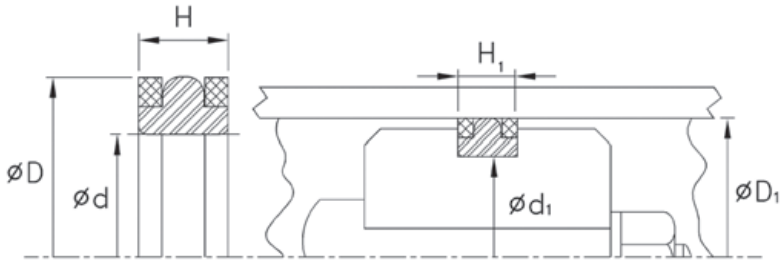
TP SERIES - NBR/NYLON

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
TP-443	8.000	+.005 / -.000	8.000	7.500		8.000	+.005 / -.000	7.524	+.004 / -.002	0.366	+.005 / -.001	55.85
TP-444	8.250	+.005 / -.000	8.250	7.750		8.250	+.005 / -.000	7.774	+.004 / -.002	0.366	+.005 / -.001	59.67
TP-445	8.500	+.005 / -.000	8.500	8.000		8.500	+.005 / -.000	8.024	+.004 / -.002	0.366	+.005 / -.001	74.34
TP-446	9.000	+.005 / -.000	9.000	8.500		9.000	+.005 / -.000	8.524	+.004 / -.002	0.366	+.005 / -.001	70.41
TP-447	9.500	+.005 / -.000	9.500	9.000		9.500	+.005 / -.000	9.024	+.004 / -.002	0.366	+.005 / -.001	79.80
TP-448	10.000	+.005 / -.000	10.000	9.500		10.000	+.005 / -.000	9.524	+.004 / -.002	0.366	+.005 / -.001	81.44
TP-449*	10.500	+.005 / -.000	10.500	10.000		10.500	+.005 / -.000	10.024	+.004 / -.002	0.366	+.005 / -.001	96.27
TP-450	11.000	+.006 / -.000	11.000	10.500		11.000	+.006 / -.000	10.524	+.004 / -.002	0.366	+.005 / -.001	106.85
TP-451*	11.500	+.006 / -.000	11.500	11.000		11.500	+.006 / -.000	11.024	+.004 / -.002	0.366	+.005 / -.001	122.13
TP-452	12.000	+.006 / -.000	12.000	11.500		12.000	+.006 / -.000	11.524	+.004 / -.002	0.366	+.005 / -.001	130.46
TP-461	16.500	+.006 / -.000	16.500	16.000		16.500	+.006 / -.000	16.024	+.004 / -.002	0.366	+.005 / -.001	650.33

TP-1 - Piston Seals

Nitrile/Nylon





Temperature: -75/250F [-60/120C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
TP-222-1*	1.750	+.003 / -.000	1.750	1.500		1.750	+.003 / -.000	1.506	+.002 / -.000	0.235	+.010 / -.000	15.36
TP-326-1	2.000	+.003 / -.000	2.000	1.625		2.000	+.003 / -.000	1.627	+.002 / -.000	0.334	+.010 / -.000	15.36
TP-328-1	2.250	+.003 / -.000	2.250	1.875		2.250	+.003 / -.000	1.877	+.002 / -.000	0.334	+.010 / -.000	16.38
TP-330-1	2.500	+.003 / -.000	2.500	2.125		2.500	+.003 / -.000	2.127	+.002 / -.000	0.334	+.010 / -.000	16.80
TP-334-1	3.000	+.004 / -.000	3.000	2.625		3.000	+.004 / -.000	2.627	+.003 / -.001	0.334	+.010 / -.000	26.84
TP-338-1	3.500	+.004 / -.000	3.500	3.125		3.500	+.004 / -.000	3.128	+.003 / -.001	0.334	+.010 / -.000	27.98
TP-342-1	4.000	+.004 / -.000	4.000	3.625		4.000	+.004 / -.000	3.627	+.003 / -.001	0.334	+.010 / -.000	52.14
TP-346-1	4.500	+.004 / -.000	4.500	4.125		4.500	+.004 / -.000	4.128	+.003 / -.001	0.334	+.010 / -.000	53.66
TP-347-1	4.625	+.004 / -.000	4.625	4.250		4.625	+.004 / -.000	4.253	+.003 / -.001	0.334	+.010 / -.000	51.32
TP-425-1	5.000	+.004 / -.000	5.000	4.500		5.000	+.004 / -.000	4.524	+.003 / -.001	0.475	+.010 / -.000	61.38
TP-429-1	5.500	+.004 / -.000	5.500	5.000		5.500	+.004 / -.000	5.024	+.003 / -.001	0.475	+.010 / -.000	69.12
TP-433-1	6.000	+.004 / -.000	6.000	5.500		6.000	+.004 / -.000	5.524	+.003 / -.001	0.475	+.010 / -.000	71.13
TP-435-1*	6.250	+.004 / -.000	6.250	5.750		6.250	+.004 / -.000	5.774	+.003 / -.001	0.475	+.010 / -.000	80.84
TP-437-1*	6.500	+.004 / -.000	6.500	6.000		6.500	+.004 / -.000	6.024	+.003 / -.001	0.475	+.010 / -.000	82.12
TP-439-1	7.000	+.005 / -.000	7.000	6.500		7.000	+.005 / -.000	6.524	+.004 / -.002	0.475	+.010 / -.000	83.70
TP-443-1	8.000	+.005 / -.000	8.000	7.500		8.000	+.005 / -.000	7.524	+.004 / -.002	0.475	+.010 / -.000	92.64
TP-444-1	8.250	+.005 / -.000	8.250	7.750		8.250	+.005 / -.000	7.774	+.004 / -.002	0.475	+.010 / -.000	103.90
TP-446-1	9.000	+.005 / -.000	9.000	8.500		9.000	+.005 / -.000	8.524	+.004 / -.002	0.475	+.010 / -.000	151.96
TP-448-1	10.000	+.005 / -.000	10.000	9.500		10.000	+.005 / -.000	9.524	+.004 / -.002	0.475	+.010 / -.000	173.78

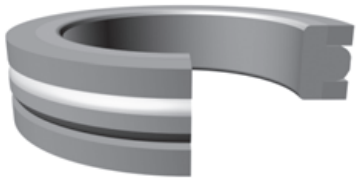
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

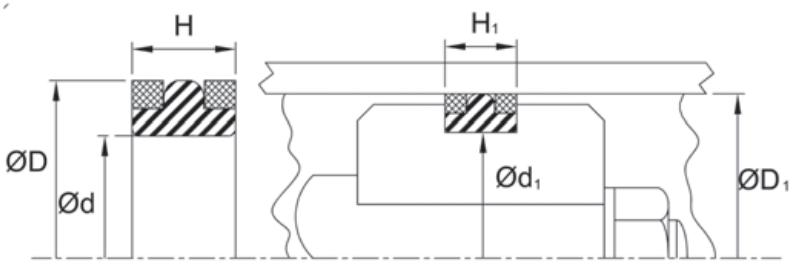
TP-1 SERIES - NBR/NYLON

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
TP-450-1	11.000	+.006 / -.000	11.000	10.500		11.000	+.006 / -.000	10.524	+.004 / -.002	0.475	+.010 / -.000	176.34
TP-452-1	12.000	+.006 / -.000	12.000	11.500		12.000	+.006 / -.000	11.524	+.004 / -.002	0.475	+.010 / -.000	275.98
TP-456-1*	14.000	+.006 / -.000	14.000	13.500		14.000	+.006 / -.000	13.524	+.004 / -.002	0.475	+.010 / -.000	692.61

TP-2 - Piston Seals

Nitrile/Nylon





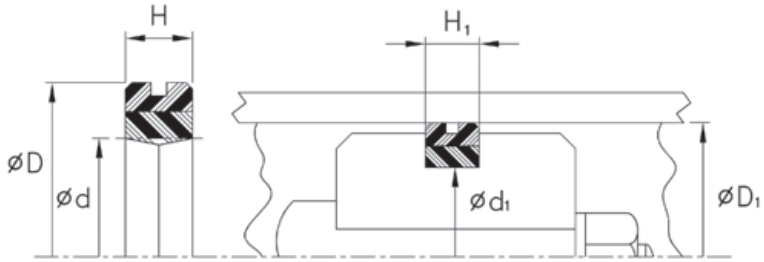
Temperature: -75/250F [-60/120C] **Pressure: 5000 PSI [245 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
TP-218-2	1.500	+.003 / -.000	1.500	1.250		1.500	+.003 / -.000	1.256	+.002 / -.000	0.304	+.010 / -.000	10.90
TP-328-2*	2.250	+.003 / -.000	2.250	1.875		2.250	+.003 / -.000	1.877	+.002 / -.000	0.424	+.010 / -.000	17.40
TP-330-2	2.500	+.003 / -.000	2.500	2.125		2.500	+.003 / -.000	2.127	+.002 / -.000	0.424	+.010 / -.000	18.34
TP-333-2	2.875	+.003 / -.000	2.875	2.500		2.875	+.003 / -.000	2.502	+.003 / -.001	0.424	+.010 / -.000	25.06
TP-334-2	3.000	+.004 / -.000	3.000	2.625		3.000	+.004 / -.000	2.627	+.003 / -.001	0.424	+.010 / -.000	28.21
TP-338-2	3.500	+.004 / -.000	3.500	3.125		3.500	+.004 / -.000	3.128	+.003 / -.001	0.424	+.010 / -.000	30.50
TP-342-2	4.000	+.004 / -.000	4.000	3.625		4.000	+.004 / -.000	3.628	+.003 / -.001	0.424	+.010 / -.000	36.00
TP-346-2	4.500	+.004 / -.000	4.500	4.125		4.500	+.004 / -.000	4.128	+.003 / -.001	0.424	+.010 / -.000	48.48
TP-348-2	4.750	+.004 / -.000	4.750	4.375		4.750	+.004 / -.000	4.378	+.003 / -.001	0.424	+.010 / -.000	52.16
TP-350-2	5.000	+.004 / -.000	5.000	4.625		5.000	+.004 / -.000	4.629	+.003 / -.001	0.424	+.010 / -.000	55.92
TP-425-2	5.000	+.004 / -.000	5.000	4.500		5.000	+.004 / -.000	4.524	+.003 / -.001	0.579	+.010 / -.000	75.44
TP-427-2	5.250	+.004 / -.000	5.250	4.750		5.250	+.004 / -.000	4.774	+.003 / -.001	0.579	+.010 / -.000	61.51
TP-429-2	5.500	+.004 / -.000	5.500	5.000		5.500	+.004 / -.000	5.024	+.003 / -.001	0.579	+.010 / -.000	76.98
TP-433-2	6.000	+.004 / -.000	6.000	5.500		6.000	+.004 / -.000	5.524	+.003 / -.001	0.579	+.010 / -.000	79.11
TP-435-2	6.250	+.005 / -.000	6.250	5.750		6.250	+.005 / -.000	5.774	+.004 / -.002	0.579	+.010 / -.000	114.14
TP-439-2	7.000	+.005 / -.000	7.000	6.500		7.000	+.005 / -.000	6.524	+.004 / -.002	0.579	+.010 / -.000	91.28
TP-443-2	8.000	+.005 / -.000	8.000	7.500		8.000	+.005 / -.000	7.524	+.004 / -.002	0.579	+.010 / -.000	112.49
TP-448-2*	10.000	+.005 / -.000	10.000	9.500		10.000	+.005 / -.000	9.524	+.004 / -.002	0.579	+.010 / -.000	148.04
TP-449-2	10.500	+.005 / -.000	10.500	10.000		10.500	+.005 / -.000	10.024	+.004 / -.002	0.579	+.010 / -.000	324.07

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

Uniring - Piston Seals

Polyurethane AU 57A/AU 60D



Temperature: -40/250F [-40/120C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
UNI12501250-187	1.500	+.003 / -.000	1.500	1.250	0.187	1.500	+.003 / -.000	1.250	+.003 / -.000	0.196	+.015 / -.000	4.71
UNI18701125-250	1.500	+.004 / -.000	1.500	1.125	0.250	1.500	+.004 / -.000	1.125	+.004 / -.000	0.263	+.015 / -.000	6.34
UNI25001000-375*	1.500	+.006 / -.000	1.500	1.000	0.375	1.500	+.006 / -.000	1.000	+.005 / -.000	0.394	+.015 / -.000	8.43
UNI12501500-187	1.750	+.003 / -.000	1.750	1.500	0.187	1.750	+.003 / -.000	1.500	+.003 / -.000	0.196	+.015 / -.000	7.10
UNI18701375-250*	1.750	+.004 / -.000	1.750	1.375	0.250	1.750	+.004 / -.000	1.375	+.004 / -.000	0.263	+.015 / -.000	6.47
UNI18701375-500*	1.750	+.004 / -.000	1.750	1.375	0.500	1.750	+.004 / -.000	1.375	+.004 / -.000	0.526	+.015 / -.000	11.42
UNI25001250-375*	1.750	+.006 / -.000	1.750	1.250	0.375	1.750	+.006 / -.000	1.250	+.005 / -.000	0.394	+.015 / -.000	8.81
UNI12501750-250	2.000	+.003 / -.000	2.000	1.750	0.250	2.000	+.003 / -.000	1.750	+.003 / -.000	0.263	+.015 / -.000	6.74
UNI18701625-281	2.000	+.004 / -.000	2.000	1.625	0.281	2.000	+.004 / -.000	1.625	+.004 / -.000	0.296	+.015 / -.000	8.13
UNI18701625-312	2.000	+.004 / -.000	2.000	1.625	0.312	2.000	+.004 / -.000	1.625	+.004 / -.000	0.328	+.015 / -.000	8.17
UNI18701625-375	2.000	+.004 / -.000	2.000	1.625	0.375	2.000	+.004 / -.000	1.625	+.004 / -.000	0.394	+.015 / -.000	9.40
UNI25001500-375	2.000	+.006 / -.000	2.000	1.500	0.375	2.000	+.006 / -.000	1.500	+.005 / -.000	0.394	+.015 / -.000	10.34
UNI18701875-281	2.250	+.004 / -.000	2.250	1.875	0.281	2.250	+.004 / -.000	1.875	+.004 / -.000	0.296	+.015 / -.000	8.31
UNI18701875-312*	2.250	+.004 / -.000	2.250	1.875	0.312	2.250	+.004 / -.000	1.875	+.004 / -.000	0.328	+.015 / -.000	10.13
UNI18702000-281	2.375	+.004 / -.000	2.375	2.000	0.281	2.375	+.004 / -.000	2.000	+.004 / -.000	0.296	+.015 / -.000	8.35
UNI18702125-281	2.500	+.004 / -.000	2.500	2.125	0.281	2.500	+.004 / -.000	2.125	+.004 / -.000	0.296	+.015 / -.000	8.47
UNI18702125-312	2.500	+.004 / -.000	2.500	2.125	0.312	2.500	+.004 / -.000	2.125	+.004 / -.000	0.328	+.015 / -.000	9.00
UNI18702125-375	2.500	+.004 / -.000	2.500	2.125	0.375	2.500	+.004 / -.000	2.125	+.004 / -.000	0.394	+.015 / -.000	10.05
UNI25002000-375	2.500	+.006 / -.000	2.500	2.000	0.375	2.500	+.006 / -.000	2.000	+.005 / -.000	0.394	+.015 / -.000	10.13
UNI18702375-312	2.750	+.004 / -.000	2.750	2.375	0.312	2.750	+.004 / -.000	2.375	+.004 / -.000	0.328	+.015 / -.000	9.88
UNI18702625-281	3.000	+.004 / -.000	3.000	2.625	0.281	3.000	+.004 / -.000	2.625	+.004 / -.000	0.296	+.015 / -.000	9.75
UNI18702625-312*	3.000	+.004 / -.000	3.000	2.625	0.312	3.000	+.004 / -.000	2.625	+.004 / -.000	0.328	+.015 / -.000	10.75
UNI18702625-375	3.000	+.004 / -.000	3.000	2.625	0.375	3.000	+.004 / -.000	2.625	+.004 / -.000	0.394	+.015 / -.000	10.75
UNI25002500-375	3.000	+.006 / -.000	3.000	2.500	0.375	3.000	+.006 / -.000	2.500	+.005 / -.000	0.394	+.015 / -.000	10.75
UNI25002500-500*	3.000	+.006 / -.000	3.000	2.500	0.500	3.000	+.006 / -.000	2.500	+.005 / -.000	0.526	+.015 / -.000	21.92
UNI18702875-281*	3.250	+.004 / -.000	3.250	2.875	0.281	3.250	+.004 / -.000	2.875	+.004 / -.000	0.296	+.015 / -.000	10.47
UNI18702875-312*	3.250	+.004 / -.000	3.250	2.875	0.312	3.250	+.004 / -.000	2.875	+.004 / -.000	0.328	+.015 / -.000	11.00
UNI25002750-562*	3.250	+.006 / -.000	3.250	2.750	0.562	3.250	+.006 / -.000	2.750	+.005 / -.000	0.591	+.015 / -.000	17.32
UNI18703125-281	3.500	+.004 / -.000	3.500	3.125	0.281	3.500	+.004 / -.000	3.125	+.004 / -.000	0.296	+.015 / -.000	10.85
UNI18703125-312*	3.500	+.004 / -.000	3.500	3.125	0.312	3.500	+.004 / -.000	3.125	+.004 / -.000	0.328	+.015 / -.000	11.32
UNI18703125-375	3.500	+.004 / -.000	3.500	3.125	0.375	3.500	+.004 / -.000	3.125	+.004 / -.000	0.394	+.015 / -.000	11.51
UNI25003000-375	3.500	+.006 / -.000	3.500	3.000	0.375	3.500	+.006 / -.000	3.000	+.005 / -.000	0.394	+.015 / -.000	12.08
UNI18703375-312*	3.750	+.004 / -.000	3.750	3.375	0.312	3.750	+.004 / -.000	3.375	+.004 / -.000	0.328	+.015 / -.000	11.74
UNI18703625-281*	4.000	+.004 / -.000	4.000	3.625	0.281	4.000	+.004 / -.000	3.625	+.004 / -.000	0.296	+.015 / -.000	11.72
UNI18703625-375	4.000	+.004 / -.000	4.000	3.625	0.375	4.000	+.004 / -.000	3.625	+.004 / -.000	0.394	+.015 / -.000	12.25
UNI25003500-375	4.000	+.006 / -.000	4.000	3.500	0.375	4.000	+.006 / -.000	3.500	+.005 / -.000	0.394	+.015 / -.000	17.80
UNI37503250-625	4.000	+.008 / -.000	4.000	3.250	0.625	4.000	+.008 / -.000	3.250	+.007 / -.000	0.657	+.015 / -.000	19.96

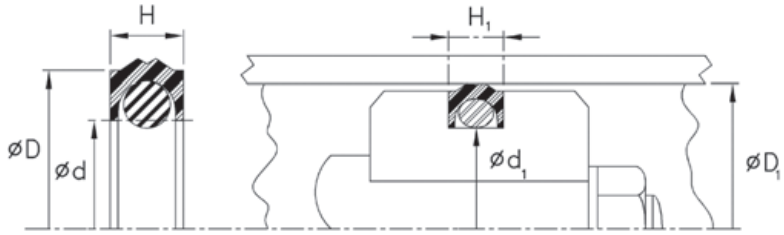
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

UNIRING SERIES - AU 57A/AU 60D

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
UNI18703875-281*	4.250	+.004 / -.000	4.250	3.875	0.281	4.250	+.004 / -.000	3.625	+.004 / -.000	0.296	+.015 / -.000	12.49
UNI18704125-281	4.500	+.004 / -.000	4.500	4.125	0.281	4.500	+.004 / -.000	3.875	+.004 / -.000	0.296	+.015 / -.000	13.88
UNI25004000-375	4.500	+.006 / -.000	4.500	4.000	0.375	4.500	+.006 / -.000	4.000	+.005 / -.000	0.394	+.015 / -.000	14.80
UNI25004000-562*	4.500	+.006 / -.000	4.500	4.000	0.562	4.500	+.006 / -.000	4.000	+.005 / -.000	0.591	+.015 / -.000	21.07
UNI37503750-625*	4.500	+.008 / -.000	4.500	3.750	0.625	4.500	+.008 / -.000	3.750	+.007 / -.000	0.657	+.015 / -.000	22.95
UNI18704375-281*	4.750	+.004 / -.000	4.750	4.375	0.281	4.750	+.004 / -.000	4.375	+.004 / -.000	0.296	+.015 / -.000	16.18
UNI18704625-281*	5.000	+.004 / -.000	5.000	4.625	0.281	5.000	+.004 / -.000	4.625	+.004 / -.000	0.296	+.015 / -.000	20.13
UNI25004500-375	5.000	+.006 / -.000	5.000	4.500	0.375	5.000	+.006 / -.000	4.500	+.005 / -.000	0.394	+.015 / -.000	16.12
UNI25004500-500*	5.000	+.006 / -.000	5.000	4.500	0.500	5.000	+.006 / -.000	4.500	+.005 / -.000	0.526	+.015 / -.000	26.59
UNI25004500-562*	5.000	+.006 / -.000	5.000	4.500	0.562	5.000	+.006 / -.000	4.500	+.005 / -.000	0.591	+.015 / -.000	26.59
UNI31204375-500*	5.000	+.006 / -.000	5.000	4.375	0.500	5.000	+.006 / -.000	4.375	+.006 / -.000	0.526	+.015 / -.000	39.35
UNI37504250-625*	5.000	+.008 / -.000	5.000	4.250	0.625	5.000	+.008 / -.000	4.250	+.007 / -.000	0.657	+.015 / -.000	25.94
UNI25004750-562*	5.250	+.006 / -.000	5.250	4.750	0.562	5.250	+.006 / -.000	4.750	+.005 / -.000	0.591	+.015 / -.000	26.82
UNI25005000-375*	5.500	+.006 / -.000	5.500	5.000	0.375	5.500	+.006 / -.000	5.000	+.005 / -.000	0.394	+.015 / -.000	33.80
UNI37504750-625*	5.500	+.008 / -.000	5.500	4.750	0.625	5.500	+.008 / -.000	4.750	+.007 / -.000	0.657	+.015 / -.000	28.91
UNI25005500-366*	6.000	+.006 / -.000	6.000	5.500	0.366	6.000	+.006 / -.000	5.500	+.005 / -.000	0.385	+.015 / -.000	29.22
UNI25005500-375*	6.000	+.006 / -.000	6.000	5.500	0.375	6.000	+.006 / -.000	5.500	+.005 / -.000	0.394	+.015 / -.000	36.71
UNI25005500-562*	6.000	+.006 / -.000	6.000	5.500	0.562	6.000	+.006 / -.000	5.500	+.005 / -.000	0.591	+.015 / -.000	36.71
UNI31205375-500*	6.000	+.006 / -.000	6.000	5.375	0.500	6.000	+.006 / -.000	5.375	+.006 / -.000	0.526	+.015 / -.000	34.77
UNI37505250-625*	6.000	+.008 / -.000	6.000	5.250	0.625	6.000	+.008 / -.000	5.250	+.007 / -.000	0.657	+.015 / -.000	39.18
UNI25006000-366*	6.500	+.006 / -.000	6.500	6.000	0.366	6.500	+.006 / -.000	6.000	+.005 / -.000	0.385	+.015 / -.000	32.51
UNI25006000-562*	6.500	+.006 / -.000	6.500	6.000	0.562	6.500	+.006 / -.000	6.000	+.005 / -.000	0.591	+.015 / -.000	37.12
UNI25006500-366*	7.000	+.006 / -.000	7.000	6.500	0.366	7.000	+.006 / -.000	6.500	+.005 / -.000	0.385	+.015 / -.000	32.85

PSP - Piston Seals

Polyurethane/Nitrile



Temperature: -65/220F [-54/104C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
PSP-203*	0.562	+.003 / -.000	0.562	0.312		0.562	+.003 / -.000	0.320	+.000 / -.002	0.187	+.005 / -.000	6.68
PSP-204*	0.625	+.003 / -.000	0.625	0.375		0.625	+.003 / -.000	0.383	+.000 / -.002	0.187	+.005 / -.000	6.79
PSP-205*	0.687	+.003 / -.000	0.687	0.437		0.687	+.003 / -.000	0.445	+.000 / -.002	0.187	+.005 / -.000	6.93
PSP-206	0.750	+.003 / -.000	0.750	0.500		0.750	+.003 / -.000	0.508	+.000 / -.002	0.187	+.005 / -.000	6.98
PSP-207*	0.812	+.003 / -.000	0.812	0.562		0.812	+.003 / -.000	0.570	+.000 / -.002	0.187	+.005 / -.000	7.09
PSP-208*	0.875	+.003 / -.000	0.875	0.625		0.875	+.003 / -.000	0.633	+.000 / -.002	0.187	+.005 / -.000	7.23
PSP-209*	0.937	+.003 / -.000	0.937	0.687		0.937	+.003 / -.000	0.695	+.000 / -.002	0.187	+.005 / -.000	7.45

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

PSP SERIES - AU/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
PSP-210	1.000	+.003 / -.000	1.000	0.750		1.000	+.003 / -.000	0.758	+.000 / -.002	0.187	+.005 / -.000	7.67
PSP-211*	1.062	+.003 / -.000	1.062	0.812		1.062	+.003 / -.000	0.820	+.000 / -.002	0.187	+.005 / -.000	7.95
PSP-212	1.125	+.003 / -.000	1.125	0.875		1.125	+.003 / -.000	0.883	+.000 / -.002	0.187	+.005 / -.000	8.17
PSP-213*	1.187	+.003 / -.000	1.187	0.937		1.187	+.003 / -.000	0.945	+.000 / -.002	0.187	+.005 / -.000	8.50
PSP-214	1.250	+.003 / -.000	1.250	1.000		1.250	+.003 / -.000	1.008	+.000 / -.002	0.187	+.005 / -.000	8.69
PSP-215*	1.312	+.003 / -.000	1.312	1.062		1.312	+.003 / -.000	1.070	+.000 / -.002	0.187	+.005 / -.000	8.91
PSP-216	1.375	+.003 / -.000	1.375	1.125		1.375	+.003 / -.000	1.133	+.000 / -.002	0.187	+.005 / -.000	9.19
PSP-217*	1.437	+.003 / -.000	1.437	1.187		1.437	+.003 / -.000	1.195	+.000 / -.002	0.187	+.005 / -.000	9.46
PSP-218	1.500	+.003 / -.000	1.500	1.250		1.500	+.003 / -.000	1.258	+.000 / -.002	0.187	+.005 / -.000	9.74
PSP-219*	1.562	+.003 / -.000	1.562	1.312		1.562	+.003 / -.000	1.320	+.000 / -.002	0.187	+.005 / -.000	10.10
PSP-220	1.625	+.003 / -.000	1.625	1.375		1.625	+.003 / -.000	1.383	+.000 / -.002	0.187	+.005 / -.000	10.46
PSP-221*	1.687	+.003 / -.000	1.687	1.437		1.687	+.003 / -.000	1.445	+.000 / -.002	0.187	+.005 / -.000	10.93
PSP-222	1.750	+.003 / -.000	1.750	1.500		1.750	+.003 / -.000	1.508	+.000 / -.002	0.187	+.005 / -.000	11.18
PSP-325	1.875	+.003 / -.000	1.875	1.500		1.875	+.003 / -.000	1.505	+.000 / -.002	0.281	+.005 / -.000	11.81
PSP-326	2.000	+.003 / -.000	2.000	1.625		2.000	+.003 / -.000	1.630	+.000 / -.002	0.281	+.005 / -.000	12.53
PSP-327*	2.125	+.003 / -.000	2.125	1.750		2.125	+.003 / -.000	1.755	+.000 / -.004	0.281	+.005 / -.000	13.91
PSP-328	2.250	+.003 / -.000	2.250	1.875		2.250	+.003 / -.000	1.880	+.000 / -.004	0.281	+.005 / -.000	14.63
PSP-329	2.375	+.003 / -.000	2.375	2.000		2.375	+.003 / -.000	2.005	+.000 / -.004	0.281	+.005 / -.000	16.03
PSP-330	2.500	+.003 / -.000	2.500	2.125		2.500	+.003 / -.000	2.130	+.000 / -.004	0.281	+.005 / -.000	16.75
PSP-331	2.625	+.003 / -.000	2.625	2.250		2.625	+.003 / -.000	2.255	+.000 / -.004	0.281	+.005 / -.000	17.41
PSP-332	2.750	+.003 / -.000	2.750	2.375		2.750	+.003 / -.000	2.380	+.000 / -.004	0.281	+.005 / -.000	18.16
PSP-333	2.875	+.003 / -.000	2.875	2.500		2.875	+.003 / -.000	2.505	+.000 / -.004	0.281	+.005 / -.000	18.79
PSP-334	3.000	+.004 / -.000	3.000	2.625		3.000	+.004 / -.000	2.630	+.000 / -.004	0.281	+.005 / -.000	19.48
PSP-335	3.125	+.004 / -.000	3.125	2.750		3.125	+.004 / -.000	2.755	+.000 / -.004	0.281	+.005 / -.000	20.92
PSP-336	3.250	+.004 / -.000	3.250	2.875		3.250	+.004 / -.000	2.880	+.000 / -.004	0.281	+.005 / -.000	21.61
PSP-337	3.375	+.004 / -.000	3.375	3.000		3.375	+.004 / -.000	3.005	+.000 / -.004	0.281	+.005 / -.000	22.32
PSP-338	3.500	+.004 / -.000	3.500	3.125		3.500	+.004 / -.000	3.130	+.000 / -.004	0.281	+.005 / -.000	22.99
PSP-339	3.625	+.004 / -.000	3.625	3.250		3.625	+.004 / -.000	3.255	+.000 / -.004	0.281	+.005 / -.000	23.70
PSP-340	3.750	+.004 / -.000	3.750	3.375		3.750	+.004 / -.000	3.380	+.000 / -.004	0.281	+.005 / -.000	25.11
PSP-341*	3.875	+.004 / -.000	3.875	3.500		3.875	+.004 / -.000	3.505	+.000 / -.004	0.281	+.005 / -.000	26.46
PSP-342	4.000	+.004 / -.000	4.000	3.625		4.000	+.004 / -.000	3.630	+.000 / -.004	0.281	+.005 / -.000	27.87
PSP-343*	4.125	+.004 / -.000	4.125	3.750		4.125	+.004 / -.000	3.755	+.000 / -.004	0.281	+.005 / -.000	30.02
PSP-344	4.250	+.004 / -.000	4.250	3.875		4.250	+.004 / -.000	3.880	+.000 / -.004	0.281	+.005 / -.000	32.09
PSP-345*	4.375	+.004 / -.000	4.375	4.000		4.375	+.004 / -.000	4.005	+.000 / -.004	0.281	+.005 / -.000	33.44
PSP-346	4.500	+.004 / -.000	4.500	4.125		4.500	+.004 / -.000	4.130	+.000 / -.004	0.281	+.005 / -.000	34.85
PSP-347*	4.625	+.004 / -.000	4.625	4.250		4.625	+.004 / -.000	4.255	+.000 / -.004	0.281	+.005 / -.000	36.20
PSP-348	4.750	+.004 / -.000	4.750	4.375		4.750	+.004 / -.000	4.380	+.000 / -.004	0.281	+.005 / -.000	38.30
PSP-349*	4.875	+.004 / -.000	4.875	4.500		4.875	+.004 / -.000	4.505	+.000 / -.004	0.281	+.005 / -.000	39.74
PSP-350	5.000	+.004 / -.000	5.000	4.625		5.000	+.004 / -.000	4.630	+.000 / -.004	0.281	+.005 / -.000	41.86
PSP-425	5.000	+.004 / -.000	5.000	4.500		5.000	+.004 / -.000	4.528	+.000 / -.004	0.375	+.005 / -.000	43.71
PSP-426*	5.125	+.004 / -.000	5.125	4.625		5.125	+.004 / -.000	4.653	+.000 / -.004	0.375	+.005 / -.000	46.03
PSP-427*	5.250	+.004 / -.000	5.250	4.750		5.250	+.004 / -.000	4.778	+.000 / -.004	0.375	+.005 / -.000	49.39
PSP-428*	5.375	+.004 / -.000	5.375	4.875		5.375	+.004 / -.000	4.903	+.000 / -.004	0.375	+.005 / -.000	50.08
PSP-429	5.500	+.004 / -.000	5.500	5.000		5.500	+.004 / -.000	5.028	+.000 / -.004	0.375	+.005 / -.000	51.49
PSP-430*	5.625	+.004 / -.000	5.625	5.125		5.625	+.004 / -.000	5.153	+.000 / -.004	0.375	+.005 / -.000	52.95
PSP-431*	5.750	+.004 / -.000	5.750	5.250		5.750	+.004 / -.000	5.278	+.000 / -.004	0.375	+.005 / -.000	54.36
PSP-432*	5.875	+.004 / -.000	5.875	5.375		5.875	+.004 / -.000	5.403	+.000 / -.004	0.375	+.005 / -.000	56.98
PSP-433	6.000	+.004 / -.000	6.000	5.500		6.000	+.004 / -.000	5.528	+.000 / -.004	0.375	+.005 / -.000	60.52

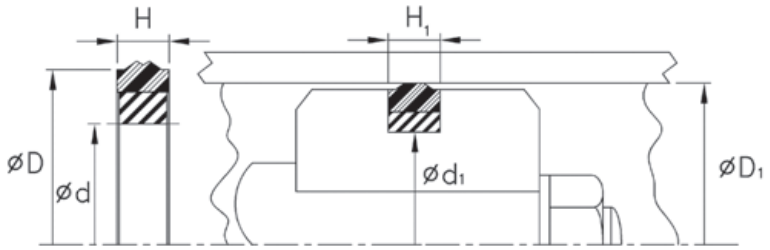
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PSP SERIES - AU/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
PSP-434*	6.125	+.004 / -.000	6.125	5.625		6.125	+.004 / -.000	5.653	+.000 / -.004	0.375	+.005 / -.000	62.01
PSP-435*	6.250	+.004 / -.000	6.250	5.750		6.250	+.004 / -.000	5.778	+.000 / -.004	0.375	+.005 / -.000	63.41
PSP-437*	6.500	+.004 / -.000	6.500	6.000		6.500	+.004 / -.000	6.028	+.000 / -.004	0.375	+.005 / -.000	66.09
PSP-438*	6.750	+.005 / -.000	6.750	6.250		6.750	+.005 / -.000	6.278	+.000 / -.004	0.375	+.005 / -.000	68.30
PSP-439	7.000	+.005 / -.000	7.000	6.500		7.000	+.005 / -.000	6.528	+.000 / -.004	0.375	+.005 / -.000	70.34

PSP-A - Piston Seals

Polyurethane/Nitrile



Temperature: -65/220F [-54/104C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
PSP-203A*	0.562	+.003 / -.000	0.562	0.312		0.562	+.003 / -.000	0.320	+.000 / -.002	0.187	+.005 / -.000	4.14
PSP-204A*	0.625	+.003 / -.000	0.625	0.375		0.625	+.003 / -.000	0.383	+.000 / -.002	0.187	+.005 / -.000	4.20
PSP-205A*	0.687	+.003 / -.000	0.687	0.437		0.687	+.003 / -.000	0.445	+.000 / -.002	0.187	+.005 / -.000	4.27
PSP-206A*	0.750	+.003 / -.000	0.750	0.500		0.750	+.003 / -.000	0.508	+.000 / -.002	0.187	+.005 / -.000	4.36
PSP-207A*	0.812	+.003 / -.000	0.812	0.562		0.812	+.003 / -.000	0.570	+.000 / -.002	0.187	+.005 / -.000	4.45
PSP-208A*	0.875	+.003 / -.000	0.875	0.625		0.875	+.003 / -.000	0.633	+.000 / -.002	0.187	+.005 / -.000	4.57
PSP-209A*	0.937	+.003 / -.000	0.937	0.687		0.937	+.003 / -.000	0.695	+.000 / -.002	0.187	+.005 / -.000	4.64
PSP-210A*	1.000	+.003 / -.000	1.000	0.750		1.000	+.003 / -.000	0.758	+.000 / -.002	0.187	+.005 / -.000	4.76
PSP-211A*	1.062	+.003 / -.000	1.062	0.812		1.062	+.003 / -.000	0.820	+.000 / -.002	0.187	+.005 / -.000	4.91
PSP-212A*	1.125	+.003 / -.000	1.125	0.875		1.125	+.003 / -.000	0.883	+.000 / -.002	0.187	+.005 / -.000	5.04
PSP-213A*	1.187	+.003 / -.000	1.187	0.937		1.187	+.003 / -.000	0.945	+.000 / -.002	0.187	+.005 / -.000	5.19
PSP-214A	1.250	+.003 / -.000	1.250	1.000		1.250	+.003 / -.000	1.008	+.000 / -.002	0.187	+.005 / -.000	5.35
PSP-215A*	1.312	+.003 / -.000	1.312	1.062		1.312	+.003 / -.000	1.070	+.000 / -.002	0.187	+.005 / -.000	5.50
PSP-216A*	1.375	+.003 / -.000	1.375	1.125		1.375	+.003 / -.000	1.133	+.000 / -.002	0.187	+.005 / -.000	5.72
PSP-217A*	1.437	+.003 / -.000	1.437	1.187		1.437	+.003 / -.000	1.195	+.000 / -.002	0.187	+.005 / -.000	5.93
PSP-218A	1.500	+.003 / -.000	1.500	1.250		1.500	+.003 / -.000	1.258	+.000 / -.002	0.187	+.005 / -.000	6.09
PSP-219A*	1.562	+.003 / -.000	1.562	1.312		1.562	+.003 / -.000	1.320	+.000 / -.002	0.187	+.005 / -.000	6.34
PSP-220A*	1.625	+.003 / -.000	1.625	1.375		1.625	+.003 / -.000	1.383	+.000 / -.002	0.187	+.005 / -.000	6.58
PSP-221A*	1.687	+.003 / -.000	1.687	1.437		1.687	+.003 / -.000	1.445	+.000 / -.002	0.187	+.005 / -.000	6.74
PSP-222A	1.750	+.003 / -.000	1.750	1.500		1.750	+.003 / -.000	1.508	+.000 / -.002	0.187	+.005 / -.000	6.98
PSP-325A*	1.875	+.003 / -.000	1.875	1.500		1.875	+.003 / -.000	1.505	+.000 / -.002	0.281	+.005 / -.000	7.48
PSP-326A	2.000	+.003 / -.000	2.000	1.625		2.000	+.003 / -.000	1.630	+.000 / -.002	0.281	+.005 / -.000	8.18
PSP-327A*	2.125	+.003 / -.000	2.125	1.750		2.125	+.003 / -.000	1.755	+.000 / -.004	0.281	+.005 / -.000	8.56
PSP-328A	2.250	+.003 / -.000	2.250	1.875		2.250	+.003 / -.000	1.880	+.000 / -.004	0.281	+.005 / -.000	8.94
PSP-329A*	2.375	+.003 / -.000	2.375	2.000		2.375	+.003 / -.000	2.005	+.000 / -.004	0.281	+.005 / -.000	8.94

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

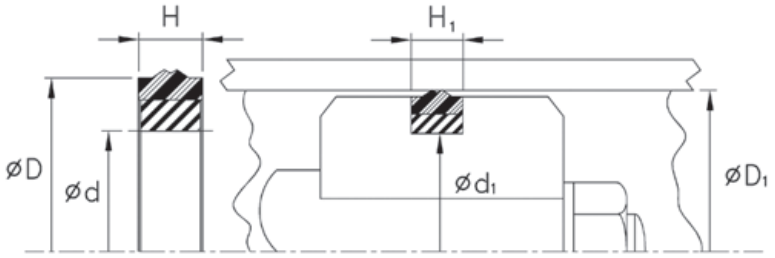
PSP-A SERIES - AU/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
PSP-330A	2.500	+.003 / -.000	2.500	2.125		2.500	+.003 / -.000	2.130	+.000 / -.004	0.281	+.005 / -.000	10.12
PSP-331A	2.625	+.003 / -.000	2.625	2.250		2.625	+.003 / -.000	2.255	+.000 / -.004	0.281	+.005 / -.000	12.23
PSP-332A	2.750	+.003 / -.000	2.750	2.375		2.750	+.003 / -.000	2.380	+.000 / -.004	0.281	+.005 / -.000	10.89
PSP-333A*	2.875	+.003 / -.000	2.875	2.500		2.875	+.003 / -.000	2.505	+.000 / -.004	0.281	+.005 / -.000	11.59
PSP-334A	3.000	+.004 / -.000	3.000	2.625		3.000	+.004 / -.000	2.630	+.000 / -.004	0.281	+.005 / -.000	12.08
PSP-335A*	3.125	+.004 / -.000	3.125	2.750		3.125	+.004 / -.000	2.755	+.000 / -.004	0.281	+.005 / -.000	12.49
PSP-336A	3.250	+.004 / -.000	3.250	2.875		3.250	+.004 / -.000	2.880	+.000 / -.004	0.281	+.005 / -.000	12.08
PSP-337A*	3.375	+.004 / -.000	3.375	3.000		3.375	+.004 / -.000	3.005	+.000 / -.004	0.281	+.005 / -.000	O/R
PSP-338A	3.500	+.004 / -.000	3.500	3.125		3.500	+.004 / -.000	3.130	+.000 / -.004	0.281	+.005 / -.000	14.02
PSP-339A*	3.625	+.004 / -.000	3.625	3.250		3.625	+.004 / -.000	3.255	+.000 / -.004	0.281	+.005 / -.000	15.21
PSP-340A*	3.750	+.004 / -.000	3.750	3.375		3.750	+.004 / -.000	3.380	+.000 / -.004	0.281	+.005 / -.000	15.58
PSP-341A*	3.875	+.004 / -.000	3.875	3.500		3.875	+.004 / -.000	3.505	+.000 / -.004	0.281	+.005 / -.000	17.28
PSP-342A	4.000	+.004 / -.000	4.000	3.625		4.000	+.004 / -.000	3.630	+.000 / -.004	0.281	+.005 / -.000	17.86
PSP-343A*	4.125	+.004 / -.000	4.125	3.750		4.125	+.004 / -.000	3.755	+.000 / -.004	0.281	+.005 / -.000	19.38
PSP-344A	4.250	+.004 / -.000	4.250	3.875		4.250	+.004 / -.000	3.880	+.000 / -.004	0.281	+.005 / -.000	26.65
PSP-345A*	4.375	+.004 / -.000	4.375	4.000		4.375	+.004 / -.000	4.005	+.000 / -.004	0.281	+.005 / -.000	21.39
PSP-346A	4.500	+.004 / -.000	4.500	4.125		4.500	+.004 / -.000	4.130	+.000 / -.004	0.281	+.005 / -.000	20.19
PSP-347A*	4.625	+.004 / -.000	4.625	4.250		4.625	+.004 / -.000	4.255	+.000 / -.004	0.281	+.005 / -.000	20.19
PSP-348A*	4.750	+.004 / -.000	4.750	4.375		4.750	+.004 / -.000	4.380	+.000 / -.004	0.281	+.005 / -.000	24.85
PSP-349A*	4.875	+.004 / -.000	4.875	4.500		4.875	+.004 / -.000	4.505	+.000 / -.004	0.281	+.005 / -.000	25.56
PSP-350A	5.000	+.004 / -.000	5.000	4.625		5.000	+.004 / -.000	4.630	+.000 / -.004	0.281	+.005 / -.000	28.71
PSP-426A*	5.125	+.004 / -.000	5.125	4.625		5.125	+.004 / -.000	4.653	+.000 / -.004	0.375	+.005 / -.000	29.02
PSP-427A*	5.250	+.004 / -.000	5.250	4.750		5.250	+.004 / -.000	4.778	+.000 / -.004	0.375	+.005 / -.000	30.41
PSP-428A*	5.375	+.004 / -.000	5.375	4.875		5.375	+.004 / -.000	4.903	+.000 / -.004	0.375	+.005 / -.000	32.73
PSP-429A	5.500	+.004 / -.000	5.500	5.000		5.500	+.004 / -.000	5.028	+.000 / -.004	0.375	+.005 / -.000	33.77
PSP-430A*	5.625	+.004 / -.000	5.625	5.125		5.625	+.004 / -.000	5.153	+.000 / -.004	0.375	+.005 / -.000	35.20
PSP-431A*	5.750	+.004 / -.000	5.750	5.250		5.750	+.004 / -.000	5.278	+.000 / -.004	0.375	+.005 / -.000	36.65
PSP-432A*	5.875	+.004 / -.000	5.875	5.375		5.875	+.004 / -.000	5.403	+.000 / -.004	0.375	+.005 / -.000	37.98
PSP-433A	6.000	+.004 / -.000	6.000	5.500		6.000	+.004 / -.000	5.528	+.000 / -.004	0.375	+.005 / -.000	36.96
PSP-434A*	6.125	+.004 / -.000	6.125	5.625		6.125	+.004 / -.000	5.653	+.000 / -.004	0.375	+.005 / -.000	40.43
PSP-435A*	6.250	+.004 / -.000	6.250	5.750		6.250	+.004 / -.000	5.778	+.000 / -.004	0.375	+.005 / -.000	41.45
PSP-437A*	6.500	+.004 / -.000	6.500	6.000		6.500	+.004 / -.000	6.028	+.000 / -.004	0.375	+.005 / -.000	39.25
PSP-438A*	6.750	+.005 / -.000	6.750	6.250		6.750	+.005 / -.000	6.278	+.000 / -.004	0.375	+.005 / -.000	44.88
PSP-439A	7.000	+.005 / -.000	7.000	6.500		7.000	+.005 / -.000	6.528	+.000 / -.004	0.375	+.005 / -.000	44.05

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

PSP-AT - Piston Seals

Polyurethane/Nitrile

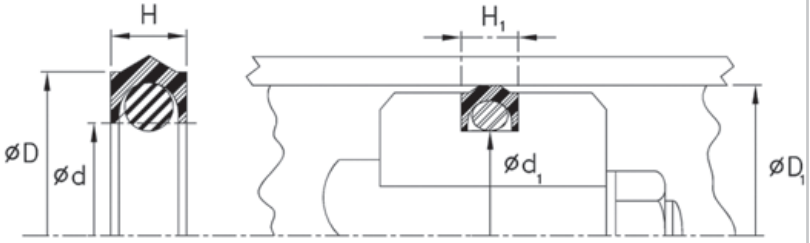


Temperature: -65/220F [-54/104C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
PSP-218AT	1.500	+.003 / -.000	1.500	1.250	0.250	1.500	+.003 / -.000	1.258	+.000 / -.002	0.275	+.005 / -.000	10.13
PSP-326AT	2.000	+.003 / -.000	2.000	1.625	0.375	2.000	+.003 / -.000	1.630	+.000 / -.002	0.410	+.005 / -.000	14.49
PSP-330AT	2.500	+.003 / -.000	2.500	2.125	0.375	2.500	+.003 / -.000	2.130	+.000 / -.004	0.410	+.005 / -.000	16.67
PSP-334AT	3.000	+.004 / -.000	3.000	2.625	0.375	3.000	+.004 / -.000	2.630	+.000 / -.004	0.410	+.005 / -.000	22.03
PSP-338AT	3.500	+.004 / -.000	3.500	3.125	0.375	3.500	+.004 / -.000	3.130	+.000 / -.004	0.410	+.005 / -.000	24.59
PSP-342AT	4.000	+.004 / -.000	4.000	3.625	0.375	4.000	+.004 / -.000	3.630	+.000 / -.004	0.410	+.005 / -.000	29.78
PSP-346AT	4.500	+.004 / -.000	4.500	4.125	0.375	4.500	+.004 / -.000	4.130	+.000 / -.004	0.410	+.005 / -.000	43.86
PSP-425AT	5.000	+.004 / -.000	5.000	4.500	0.500	5.000	+.004 / -.000	4.528	+.000 / -.004	0.538	+.005 / -.000	48.06
PSP-433AT	6.000	+.004 / -.000	6.000	5.500	0.500	6.000	+.004 / -.000	5.528	+.000 / -.004	0.538	+.005 / -.000	65.25
PSP-439AT	7.000	+.005 / -.000	7.000	6.500	0.500	7.000	+.005 / -.000	6.528	+.000 / -.004	0.538	+.005 / -.000	76.70

CP - Piston Seals

Lubrithane/Nitrile



Temperature: -65/220F [-54/104C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
CP106	0.375	+.002 / -.000	0.375	0.187	0.115	0.375	+.002 / -.000	0.188	+.000 / -.002	0.150	+.005 / -.000	3.96
CP108*	0.437	+.002 / -.000	0.437	0.250	0.115	0.437	+.002 / -.000	0.250	+.000 / -.002	0.150	+.005 / -.000	3.96
CP109*	0.500	+.002 / -.000	0.500	0.312	0.115	0.500	+.002 / -.000	0.313	+.000 / -.002	0.150	+.005 / -.000	3.96
CP203*	0.562	+.002 / -.000	0.562	0.312	0.150	0.562	+.002 / -.000	0.315	+.000 / -.002	0.185	+.005 / -.000	3.99
CP204	0.625	+.002 / -.000	0.625	0.375	0.150	0.625	+.002 / -.000	0.378	+.000 / -.002	0.185	+.005 / -.000	3.99
CP205*	0.687	+.002 / -.000	0.687	0.437	0.150	0.687	+.002 / -.000	0.440	+.000 / -.002	0.185	+.005 / -.000	4.08
CP206*	0.750	+.002 / -.000	0.750	0.500	0.150	0.750	+.002 / -.000	0.503	+.000 / -.002	0.185	+.005 / -.000	4.30
CP207*	0.812	+.002 / -.000	0.812	0.562	0.150	0.812	+.002 / -.000	0.565	+.000 / -.002	0.185	+.005 / -.000	4.38
CP208*	0.875	+.002 / -.000	0.875	0.625	0.150	0.875	+.002 / -.000	0.628	+.000 / -.002	0.185	+.005 / -.000	4.48
CP209*	0.937	+.002 / -.000	0.937	0.687	0.150	0.937	+.002 / -.000	0.690	+.000 / -.002	0.185	+.005 / -.000	4.65

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

CP SERIES - LUBRITHANE/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
CP210	1.000	+.002 / -.000	1.000	0.750	0.150	1.000	+.002 / -.000	0.754	+.000 / -.002	0.185	+.005 / -.000	4.84
CP211	1.062	+.002 / -.000	1.062	0.812	0.150	1.062	+.002 / -.000	0.816	+.000 / -.002	0.185	+.005 / -.000	4.98
CP212*	1.125	+.002 / -.000	1.125	0.875	0.150	1.125	+.002 / -.000	0.879	+.000 / -.002	0.185	+.005 / -.000	4.98
CP213*	1.187	+.002 / -.000	1.187	0.937	0.150	1.187	+.002 / -.000	0.941	+.000 / -.002	0.185	+.005 / -.000	4.98
CP214	1.250	+.002 / -.000	1.250	1.000	0.150	1.250	+.002 / -.000	1.004	+.000 / -.002	0.185	+.005 / -.000	7.04
CP215*	1.312	+.002 / -.000	1.312	1.062	0.150	1.312	+.002 / -.000	1.066	+.000 / -.002	0.185	+.005 / -.000	7.10
CP215/F*	1.312	+.002 / -.000	1.312	1.062	0.150	1.312	+.002 / -.000	1.066	+.000 / -.002	0.185	+.005 / -.000	7.78
CP216	1.375	+.002 / -.000	1.375	1.125	0.150	1.375	+.002 / -.000	1.129	+.000 / -.002	0.185	+.005 / -.000	4.98
CP217*	1.437	+.002 / -.000	1.437	1.187	0.150	1.437	+.002 / -.000	1.191	+.000 / -.002	0.185	+.005 / -.000	5.34
CP218	1.500	+.002 / -.000	1.500	1.250	0.150	1.500	+.002 / -.000	1.254	+.000 / -.002	0.185	+.005 / -.000	4.98
CP218-2	1.500	+.002 / -.000	1.500	1.250	0.265	1.500	+.002 / -.000	1.254	+.000 / -.002	0.304	+.005 / -.000	8.70
CP219*	1.562	+.002 / -.000	1.562	1.312	0.150	1.562	+.002 / -.000	1.316	+.000 / -.002	0.185	+.005 / -.000	5.72
CP220	1.625	+.002 / -.000	1.625	1.375	0.150	1.625	+.002 / -.000	1.379	+.000 / -.002	0.185	+.005 / -.000	5.42
CP221*	1.687	+.002 / -.000	1.687	1.437	0.150	1.687	+.002 / -.000	1.441	+.000 / -.002	0.185	+.005 / -.000	7.39
CP222	1.750	+.002 / -.000	1.750	1.500	0.150	1.750	+.002 / -.000	1.504	+.000 / -.002	0.185	+.005 / -.000	5.63
CP222-2*	1.750	+.002 / -.000	1.750	1.500	0.265	1.750	+.002 / -.000	1.504	+.000 / -.002	0.304	+.005 / -.000	9.00
CP228	2.500	+.002 / -.000	2.500	2.250	0.150	2.500	+.002 / -.000	2.254	+.000 / -.002	0.185	+.005 / -.000	9.70
CP232*	3.000	+.002 / -.000	3.000	2.750	0.150	3.000	+.002 / -.000	2.754	+.000 / -.002	0.185	+.005 / -.000	11.39
CP233*	3.125	+.002 / -.000	3.125	2.875	0.150	3.125	+.002 / -.000	2.879	+.000 / -.002	0.185	+.005 / -.000	11.93
CP237*	3.625	+.002 / -.000	3.625	3.375	0.150	3.625	+.002 / -.000	3.379	+.000 / -.002	0.185	+.005 / -.000	13.24
CP240*	4.000	+.002 / -.000	4.000	3.750	0.150	4.000	+.002 / -.000	3.754	+.000 / -.002	0.185	+.005 / -.000	18.12
CP252*	5.500	+.002 / -.000	5.500	5.250	0.150	5.500	+.002 / -.000	5.254	+.000 / -.002	0.185	+.005 / -.000	19.52
CP324	1.750	+.002 / -.000	1.750	1.375	0.255	1.750	+.002 / -.000	1.375	+.000 / -.002	0.280	+.005 / -.000	7.63
CP325	1.875	+.002 / -.000	1.875	1.500	0.255	1.875	+.002 / -.000	1.500	+.000 / -.002	0.280	+.005 / -.000	5.99
CP326	2.000	+.002 / -.000	2.000	1.625	0.255	2.000	+.002 / -.000	1.625	+.000 / -.002	0.280	+.005 / -.000	6.24
CP326-2	2.000	+.002 / -.000	2.000	1.625	0.370	2.000	+.002 / -.000	1.625	+.000 / -.002	0.424	+.005 / -.000	10.23
CP327	2.125	+.002 / -.000	2.125	1.750	0.255	2.125	+.002 / -.000	1.750	+.000 / -.002	0.280	+.005 / -.000	10.16
CP328	2.250	+.002 / -.000	2.250	1.875	0.255	2.250	+.002 / -.000	1.875	+.000 / -.002	0.280	+.005 / -.000	7.19
CP329*	2.375	+.002 / -.000	2.375	2.000	0.255	2.375	+.002 / -.000	2.000	+.000 / -.002	0.280	+.005 / -.000	7.70
CP330	2.500	+.002 / -.000	2.500	2.125	0.255	2.500	+.002 / -.000	2.125	+.000 / -.002	0.280	+.005 / -.000	8.13
CP330-2	2.500	+.002 / -.000	2.500	2.125	0.370	2.500	+.002 / -.000	2.125	+.000 / -.002	0.424	+.005 / -.000	12.87
CP331*	2.625	+.002 / -.000	2.625	2.250	0.255	2.625	+.002 / -.000	2.250	+.000 / -.002	0.280	+.005 / -.000	13.09
CP332	2.750	+.004 / -.000	2.750	2.375	0.255	2.750	+.004 / -.000	2.375	+.000 / -.004	0.280	+.005 / -.000	9.59
CP332-2*	2.750	+.004 / -.000	2.750	2.375	0.370	2.750	+.004 / -.000	2.375	+.000 / -.004	0.424	+.005 / -.000	20.48
CP333	2.875	+.004 / -.000	2.875	2.500	0.255	2.875	+.004 / -.000	2.500	+.000 / -.004	0.280	+.005 / -.000	10.46
CP334	3.000	+.004 / -.000	3.000	2.625	0.255	3.000	+.004 / -.000	2.625	+.000 / -.004	0.280	+.005 / -.000	10.05
CP334-2	3.000	+.004 / -.000	3.000	2.625	0.370	3.000	+.004 / -.000	2.625	+.000 / -.004	0.424	+.005 / -.000	15.48
CP335	3.125	+.004 / -.000	3.125	2.750	0.255	3.125	+.004 / -.000	2.750	+.000 / -.004	0.280	+.005 / -.000	15.37
CP336	3.250	+.004 / -.000	3.250	2.875	0.255	3.250	+.004 / -.000	2.875	+.000 / -.004	0.280	+.005 / -.000	15.54
CP337*	3.375	+.004 / -.000	3.375	3.000	0.255	3.375	+.004 / -.000	3.000	+.000 / -.004	0.280	+.005 / -.000	18.01
CP338	3.500	+.004 / -.000	3.500	3.125	0.255	3.500	+.004 / -.000	3.125	+.000 / -.004	0.280	+.005 / -.000	12.56
CP338-2*	3.500	+.004 / -.000	3.500	3.125	0.370	3.500	+.004 / -.000	3.125	+.000 / -.004	0.424	+.005 / -.000	15.52
CP339	3.625	+.004 / -.000	3.625	3.250	0.255	3.625	+.004 / -.000	3.250	+.000 / -.004	0.280	+.005 / -.000	19.39
CP340*	3.750	+.004 / -.000	3.750	3.375	0.255	3.750	+.004 / -.000	3.375	+.000 / -.004	0.280	+.005 / -.000	13.57
CP341	3.875	+.004 / -.000	3.875	3.500	0.255	3.875	+.004 / -.000	3.500	+.000 / -.004	0.280	+.005 / -.000	21.39
CP342	4.000	+.004 / -.000	4.000	3.625	0.255	4.000	+.004 / -.000	3.625	+.000 / -.004	0.280	+.005 / -.000	14.91
CP342-2*	4.000	+.004 / -.000	4.000	3.625	0.370	4.000	+.004 / -.000	3.625	+.000 / -.004	0.424	+.005 / -.000	22.98
CP343	4.125	+.004 / -.000	4.125	3.750	0.255	4.125	+.004 / -.000	3.750	+.000 / -.004	0.280	+.005 / -.000	20.04

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

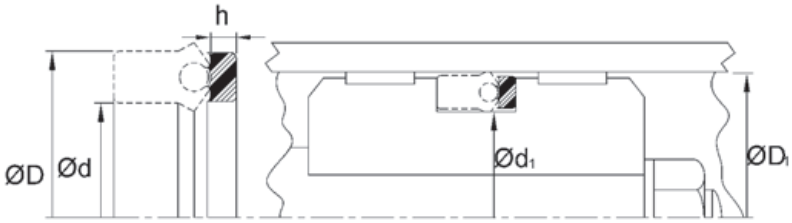
CP SERIES - LUBRITHANE/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
CP344	4.250	+.004 / -.000	4.250	3.875	0.255	4.250	+.004 / -.000	3.875	+.000 / -.004	0.280	+.005 / -.000	24.15
CP345	4.375	+.004 / -.000	4.375	4.000	0.255	4.375	+.004 / -.000	4.000	+.000 / -.004	0.280	+.005 / -.000	22.55
CP346	4.500	+.004 / -.000	4.500	4.125	0.255	4.500	+.004 / -.000	4.125	+.000 / -.004	0.280	+.005 / -.000	25.04
CP347	4.625	+.004 / -.000	4.625	4.250	0.255	4.625	+.004 / -.000	4.250	+.000 / -.004	0.280	+.005 / -.000	26.05
CP348	4.750	+.004 / -.000	4.750	4.375	0.255	4.750	+.004 / -.000	4.375	+.000 / -.004	0.280	+.005 / -.000	25.58
CP349	4.875	+.004 / -.000	4.875	4.500	0.255	4.875	+.004 / -.000	4.500	+.000 / -.004	0.280	+.005 / -.000	35.85
CP350	5.000	+.004 / -.000	5.000	4.625	0.255	5.000	+.004 / -.000	4.626	+.000 / -.004	0.280	+.005 / -.000	24.14
CP352*	5.250	+.004 / -.000	5.250	4.875	0.255	5.250	+.004 / -.000	4.875	+.000 / -.004	0.280	+.005 / -.000	29.43
CP354	5.500	+.004 / -.000	5.500	5.125	0.255	5.500	+.004 / -.000	5.125	+.000 / -.004	0.280	+.005 / -.000	31.13
CP358*	6.000	+.004 / -.000	6.000	5.625	0.255	6.000	+.004 / -.000	5.625	+.000 / -.004	0.280	+.005 / -.000	33.43
CP417	4.000	+.004 / -.000	4.000	3.500	0.320	4.000	+.004 / -.000	3.520	+.000 / -.004	0.365	+.005 / -.000	30.15
CP425	5.000	+.004 / -.000	5.000	4.500	0.320	5.000	+.004 / -.000	4.520	+.000 / -.004	0.365	+.005 / -.000	31.23
CP426*	5.125	+.004 / -.000	5.125	4.625	0.320	5.125	+.004 / -.000	4.645	+.000 / -.004	0.365	+.005 / -.000	26.02
CP427	5.250	+.004 / -.000	5.250	4.750	0.320	5.250	+.004 / -.000	4.770	+.000 / -.004	0.365	+.005 / -.000	27.36
CP428	5.375	+.004 / -.000	5.375	4.875	0.320	5.375	+.004 / -.000	4.895	+.000 / -.004	0.365	+.005 / -.000	29.22
CP429	5.500	+.004 / -.000	5.500	5.000	0.320	5.500	+.004 / -.000	5.020	+.000 / -.004	0.365	+.005 / -.000	29.26
CP430*	5.625	+.004 / -.000	5.625	5.125	0.320	5.625	+.004 / -.000	5.145	+.000 / -.004	0.365	+.005 / -.000	32.66
CP431	5.750	+.004 / -.000	5.750	5.250	0.320	5.750	+.004 / -.000	5.270	+.000 / -.004	0.365	+.005 / -.000	32.96
CP432*	5.875	+.004 / -.000	5.875	5.375	0.320	5.875	+.004 / -.000	5.395	+.000 / -.004	0.365	+.005 / -.000	34.20
CP433	6.000	+.004 / -.000	6.000	5.500	0.320	6.000	+.004 / -.000	5.520	+.000 / -.004	0.365	+.005 / -.000	36.68
CP433-2	6.000	+.004 / -.000	6.000	5.500	0.500	6.000	+.004 / -.000	5.520	+.000 / -.004	0.579	+.005 / -.000	50.45
CP434*	6.125	+.004 / -.000	6.125	5.625	0.320	6.125	+.004 / -.000	5.645	+.000 / -.004	0.365	+.005 / -.000	44.10
CP435	6.250	+.004 / -.000	6.250	5.750	0.320	6.250	+.004 / -.000	5.770	+.000 / -.004	0.365	+.005 / -.000	39.23
CP437	6.500	+.006 / -.000	6.500	6.000	0.320	6.500	+.006 / -.000	6.020	+.000 / -.006	0.365	+.005 / -.000	39.76
CP438	6.750	+.006 / -.000	6.750	6.250	0.320	6.750	+.006 / -.000	6.270	+.000 / -.006	0.365	+.005 / -.000	40.42
CP439	7.000	+.006 / -.000	7.000	6.500	0.320	7.000	+.006 / -.000	6.520	+.000 / -.006	0.365	+.005 / -.000	42.12
CP439/F*	7.000	+.006 / -.000	7.000	6.500	0.320	7.000	+.006 / -.000	6.520	+.000 / -.006	0.365	+.005 / -.000	57.36
CP440	7.250	+.006 / -.000	7.250	6.750	0.320	7.250	+.006 / -.000	6.770	+.000 / -.006	0.365	+.005 / -.000	45.99
CP441	7.500	+.006 / -.000	7.500	7.000	0.320	7.500	+.006 / -.000	7.020	+.000 / -.006	0.365	+.005 / -.000	47.51
CP442	7.750	+.006 / -.000	7.750	7.250	0.320	7.750	+.006 / -.000	7.270	+.000 / -.006	0.365	+.005 / -.000	68.13
CP443	8.000	+.006 / -.000	8.000	7.500	0.320	8.000	+.006 / -.000	7.520	+.000 / -.006	0.365	+.005 / -.000	49.28
CP443/V*	8.000	+.006 / -.000	8.000	7.500	0.320	8.000	+.006 / -.000	7.520	+.000 / -.006	0.365	+.005 / -.000	315.65
CP444	8.250	+.006 / -.000	8.250	7.750	0.320	8.250	+.006 / -.000	7.770	+.000 / -.006	0.365	+.005 / -.000	50.36
CP445	8.500	+.006 / -.000	8.500	8.000	0.320	8.500	+.006 / -.000	8.020	+.000 / -.006	0.365	+.005 / -.000	52.97
CP446*	9.000	+.006 / -.000	9.000	8.500	0.320	9.000	+.006 / -.000	8.520	+.000 / -.006	0.365	+.005 / -.000	53.10
CP446/F*	9.000	+.006 / -.000	9.000	8.500	0.320	9.000	+.006 / -.000	8.520	+.000 / -.006	0.365	+.005 / -.000	60.10
CP447*	9.500	+.006 / -.000	9.500	9.000	0.320	9.500	+.006 / -.000	9.020	+.000 / -.006	0.365	+.005 / -.000	54.31
CP448	10.000	+.006 / -.000	10.000	9.500	0.320	10.000	+.006 / -.000	9.520	+.000 / -.006	0.365	+.005 / -.000	60.96
CP449*	10.500	+.006 / -.000	10.500	10.000	0.320	10.500	+.006 / -.000	10.020	+.000 / -.006	0.365	+.005 / -.000	63.36
CP450*	11.000	+.006 / -.000	11.000	10.500	0.320	11.000	+.006 / -.000	10.520	+.000 / -.006	0.365	+.005 / -.000	65.25
CP451*	11.500	+.006 / -.000	11.500	11.000	0.320	11.500	+.006 / -.000	11.020	+.000 / -.006	0.365	+.005 / -.000	94.01
CP452*	12.000	+.006 / -.000	12.000	11.500	0.320	12.000	+.006 / -.000	11.520	+.000 / -.006	0.365	+.005 / -.000	105.27
CP453*	12.500	+.006 / -.000	12.500	12.000	0.320	12.500	+.006 / -.000	12.020	+.000 / -.006	0.365	+.005 / -.000	112.30
CP454*	13.000	+.006 / -.000	13.000	12.500	0.320	13.000	+.006 / -.000	12.520	+.000 / -.006	0.365	+.005 / -.000	120.11
CP456*	14.000	+.006 / -.000	14.000	13.500	0.320	14.000	+.006 / -.000	13.520	+.000 / -.006	0.365	+.005 / -.000	136.78

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

PIP Ring - Piston Seals

Molythane AU 65D



Temperature: -65/200F [-54/93C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
12500437PR/4617*	0.687	0.437	0.065	4.70
12500500PR/4617*	0.750	0.500	0.065	4.70
12500750PR/4617*	1.000	0.750	0.065	4.92
18700625PR/4617*	1.000	0.625	0.109	5.17
18700750PR/4617*	1.125	0.750	0.109	5.26
12501000PR/4617*	1.250	1.000	0.065	5.06
18700875PR/4617*	1.250	0.875	0.109	5.51
18700937PR/4617*	1.312	0.937	0.109	5.58
12501125PR/4617*	1.375	1.125	0.065	5.40
18701000PR/4617*	1.375	1.000	0.109	5.65
12501250PR/4617	1.500	1.250	0.065	5.49
18701125PR/4617	1.500	1.125	0.109	5.65
25001000PR/4617*	1.500	1.000	0.137	5.85
18701250PR/4617	1.625	1.250	0.109	5.99
12501500PR/4617	1.750	1.500	0.065	6.27
18701375PR/4617	1.750	1.375	0.109	5.98
25001250PR/4617	1.750	1.250	0.137	6.96
18701500PR/4617	1.875	1.500	0.109	6.54
12501750PR/4617*	2.000	1.750	0.065	6.35
18701625PR/4617	2.000	1.625	0.109	6.35
25001500PR/4617	2.000	1.500	0.137	7.06
18701750PR/4617	2.125	1.750	0.109	6.90
12502000PR/4617	2.250	2.000	0.065	6.68
25001750PR/4617	2.250	1.750	0.137	8.26
18702000PR/4617*	2.375	2.000	0.109	7.47
25001937PR/4617*	2.437	1.937	0.137	8.63
18702125PR/4617	2.500	2.125	0.109	7.47
25002000PR/4617	2.500	2.000	0.137	8.64
31201875PR/4617	2.500	1.875	0.160	11.13
18702375PR/4617	2.750	2.375	0.109	7.35
25002250PR/4617	2.750	2.250	0.137	10.05
37502000PR/4617*	2.750	2.000	0.207	15.07
18702500PR/4617*	2.875	2.500	0.109	7.79
18702625PR/4617	3.000	2.625	0.109	7.77
25002500PR/4617	3.000	2.500	0.137	10.38
31202375PR/4617*	3.000	2.375	0.160	11.90
37502250PR/4617*	3.000	2.250	0.207	16.90
18702750PR/4617*	3.125	2.750	0.109	8.86

Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
25002750PR/4617	3.250	2.750	0.137	10.89
37502500PR/4617	3.250	2.500	0.207	18.28
18703000PR/4617*	3.375	3.000	0.109	9.10
25002875PR/4617*	3.375	2.875	0.137	11.81
18703125PR/4617	3.500	3.125	0.109	9.11
25003000PR/4617	3.500	3.000	0.137	12.11
37502750PR/4617*	3.500	2.750	0.207	16.91
18703250PR/4617	3.625	3.250	0.109	10.47
37503000PR/4617*	3.625	3.000	0.207	20.45
18703375PR/4617*	3.750	3.375	0.109	11.06
25003250PR/4617	3.750	3.250	0.137	13.69
18703625PR/4617	4.000	3.625	0.109	11.22
25003500PR/4617	4.000	3.500	0.137	13.93
31203375PR/4617	4.000	3.375	0.160	16.16
37503250PR/4617	4.000	3.250	0.207	21.44
25003750PR/4617	4.250	3.750	0.137	16.02
37503500PR/4617	4.250	3.500	0.207	24.45
18704000PR/4617*	4.375	4.000	0.109	13.87
25004000PR/4617	4.500	4.000	0.137	15.67
37503750PR/4617*	4.500	3.750	0.207	24.27
50003500PR/4617*	4.500	3.500	0.275	35.73
25004250PR/4617	4.750	4.250	0.137	17.56
37504000PR/4617*	4.750	4.000	0.207	26.78
25004500PR/4617	5.000	4.500	0.137	17.41
31204375PR/4617*	5.000	4.375	0.160	20.85
37504250PR/4617	5.000	4.250	0.207	27.43
50004000-500PR/4617*	5.000	4.000	0.500	50.30
50004000PR/4617*	5.000	4.000	0.275	38.12
31204500PR/4617*	5.125	4.500	0.160	26.21
25004750PR/4617*	5.250	4.750	0.137	18.82
37504500PR/4617*	5.250	4.500	0.207	30.63
25005000PR/4617	5.500	5.000	0.137	19.15
37504750PR/4617	5.500	4.750	0.207	33.26
25005250PR/4617	5.750	5.250	0.137	25.35
37505000PR/4617*	5.750	5.000	0.207	33.34
25005500PR/4617	6.000	5.500	0.137	28.11
37505250PR/4617	6.000	5.250	0.207	33.30
50005000PR/4617	6.000	5.000	0.275	46.48

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

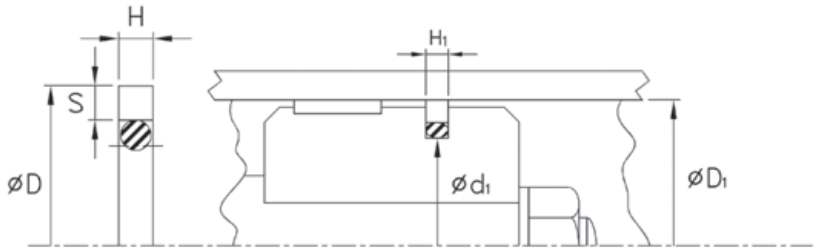
PIP RING SERIES - AU 65D

Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
50005000PR/4652*	6.000	5.000	0.275	71.82
31205500PR/4617*	6.125	5.500	0.160	29.05
37505500PR/4617	6.250	5.500	0.207	34.51
50005250PR/4617*	6.250	5.250	0.275	49.86
25006000PR/4617	6.500	6.000	0.137	28.49
37505750PR/4617	6.500	5.750	0.207	39.19
37506000PR/4617	6.750	6.000	0.207	38.88
25006500PR/4617	7.000	6.500	0.137	30.32
31206375PR/4617*	7.000	6.375	0.160	30.47
37506250PR/4617	7.000	6.250	0.207	37.40
50006000PR/4617	7.000	6.000	0.275	50.15
25007000PR/4617*	7.500	7.000	0.137	27.95
37506750PR/4617*	7.500	6.750	0.207	43.06
37506750PR/4654*	7.500	6.750	0.207	61.58
37507000PR/4617*	7.750	7.000	0.207	44.54
37507250PR/4617	8.000	7.250	0.207	44.68

Ref.Number	Nominal Seal Dimensions			$
	D	d	h	
50007000PR/4617	8.000	7.000	0.275	56.78
50007000PR/4652*	8.000	7.000	0.275	69.87
50007250PR/4617*	8.250	7.250	0.275	61.11
62507000PR/4617*	8.250	7.000	0.312	69.87
62507250PR/4617*	8.500	7.250	0.312	70.99
37508250PR/4617*	9.000	8.250	0.207	51.57
50008000PR/4617	9.000	8.000	0.275	62.13
37508500PR/4617*	9.250	8.500	0.207	52.97
37508750PR/4617*	9.500	8.750	0.207	53.97
50009000PR/4617*	10.000	9.000	0.275	69.22
31209750PR/4617*	10.375	9.750	0.160	41.69
50009500PR/4617*	10.500	9.500	0.275	76.31
62509750PR	11.000	9.750	0.312	273.19
50011000PR/4617	12.000	11.000	0.275	84.36
50011875PR/4617*	12.875	11.875	0.275	87.78
50014000PR/4617*	15.000	14.000	0.275	100.59

TFES - Piston Seals

GF.PTFE/Nitrile



Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 BAR]**

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	2.79
TFES-00625	0.625	+.003 / -.000	0.625	0.065 - 0.075	0.065 - 0.075	-011	0.366	+.002 / -.002	0.083	+.002 / -.002	3.31
TFES-00750	0.750	+.003 / -.000	0.750	0.065 - 0.075	0.065 - 0.075	-013	0.491	+.002 / -.002	0.083	+.002 / -.002	3.45
TFES-01000	1.000	+.003 / -.000	1.000	0.065 - 0.075	0.065 - 0.075	-017	0.741	+.002 / -.002	0.083	+.002 / -.002	3.45
TFES-01125	1.125	+.003 / -.000	1.125	0.065 - 0.075	0.065 - 0.075	-019	0.866	+.002 / -.002	0.083	+.002 / -.002	4.60
TFES-01250	1.250	+.003 / -.000	1.250	0.065 - 0.075	0.065 - 0.075	-022	0.991	+.002 / -.002	0.083	+.002 / -.002	3.80
TFES-01375	1.375	+.003 / -.000	1.375	0.065 - 0.075	0.065 - 0.075	-023	1.116	+.002 / -.002	0.083	+.002 / -.002	6.43
TFES-01500	1.500	+.003 / -.000	1.500	0.065 - 0.075	0.065 - 0.075	-025	1.241	+.002 / -.002	0.083	+.002 / -.002	3.97
TFES-01625	1.625	+.003 / -.000	1.625	0.099 - 0.119	0.099 - 0.119	-123	1.235	+.002 / -.002	0.122	+.002 / -.002	4.04
TFES-01750	1.750	+.003 / -.000	1.750	0.099 - 0.119	0.099 - 0.119	-125	1.360	+.002 / -.002	0.122	+.002 / -.002	4.14
TFES-01875*	1.875	+.003 / -.000	1.875	0.099 - 0.119	0.099 - 0.119	-128	1.483	+.002 / -.002	0.122	+.002 / -.002	8.05
TFES-02000	2.000	+.003 / -.000	2.000	0.105 - 0.125	0.105 - 0.125	-129	1.606	+.002 / -.002	0.130	+.002 / -.002	4.29
TFES-02125	2.125	+.003 / -.000	2.125	0.105 - 0.125	0.105 - 0.125	-132	1.733	+.002 / -.002	0.130	+.002 / -.002	8.05
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	4.47
TFES-02375	2.375	+.003 / -.000	2.375	0.105 - 0.125	0.105 - 0.125	-135	1.981	+.002 / -.002	0.130	+.002 / -.002	4.50

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

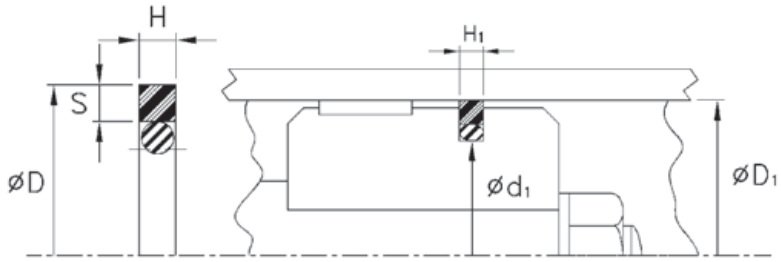
TFES SERIES - GF.PTFE/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
TFES-02500	2.500	+.003 / -.000	2.500	0.105 - 0.125	0.105 - 0.125	-137	2.106	+.002 / -.002	0.130	+.002 / -.002	4.51
TFES-02625	2.625	+.003 / -.000	2.625	0.105 - 0.125	0.105 - 0.125	-139	2.235	+.002 / -.002	0.130	+.002 / -.002	4.65
TFES-02750	2.750	+.003 / -.000	2.750	0.105 - 0.125	0.105 - 0.125	-141	2.356	+.002 / -.002	0.130	+.002 / -.002	4.56
TFES-03000	3.000	+.004 / -.000	3.000	0.105 - 0.125	0.105 - 0.125	-145	2.606	+.002 / -.002	0.130	+.002 / -.002	4.69
TFES-03125	3.125	+.004 / -.000	3.125	0.105 - 0.125	0.105 - 0.125	-148	2.733	+.002 / -.002	0.130	+.002 / -.002	17.06
TFES-03250	3.250	+.004 / -.000	3.250	0.105 - 0.125	0.105 - 0.125	-149	2.856	+.002 / -.002	0.130	+.002 / -.002	4.76
TFES-03375	3.375	+.004 / -.000	3.375	0.105 - 0.125	0.105 - 0.125	-150	2.983	+.002 / -.002	0.130	+.002 / -.002	8.81
TFES-03500	3.500	+.004 / -.000	3.500	0.105 - 0.125	0.105 - 0.125	-151	3.106	+.002 / -.002	0.130	+.002 / -.002	4.90
TFES-03625	3.625	+.004 / -.000	3.625	0.105 - 0.125	0.105 - 0.125	-151	3.233	+.002 / -.002	0.130	+.002 / -.002	9.05
TFES-03750	3.750	+.004 / -.000	3.750	0.105 - 0.125	0.105 - 0.125	-152	3.360	+.002 / -.002	0.130	+.002 / -.002	5.32
TFES-04000	4.000	+.004 / -.000	4.000	0.105 - 0.125	0.105 - 0.125	-153	3.606	+.002 / -.002	0.130	+.002 / -.002	5.40
TFES-04250	4.250	+.004 / -.000	4.250	0.105 - 0.125	0.105 - 0.125	-154	3.856	+.002 / -.002	0.130	+.002 / -.002	5.51
TFES-04400*	4.400	+.004 / -.000	4.400	0.105 - 0.125	0.105 - 0.125	-155	4.008	+.002 / -.002	0.130	+.002 / -.002	17.57
TFES-04500	4.500	+.004 / -.000	4.500	0.105 - 0.125	0.105 - 0.125	-155	4.106	+.002 / -.002	0.130	+.002 / -.002	6.04
TFES-04750	4.750	+.004 / -.000	4.750	0.105 - 0.125	0.105 - 0.125	-156	4.356	+.002 / -.002	0.130	+.002 / -.002	9.38
TFES-04875	4.875	+.004 / -.000	4.875	0.105 - 0.125	0.105 - 0.125	-157	4.483	+.002 / -.002	0.130	+.002 / -.002	17.70
TFES-05000	5.000	+.004 / -.000	5.000	0.105 - 0.125	0.105 - 0.125	-157	4.606	+.002 / -.002	0.130	+.002 / -.002	6.73
TFES-05250	5.250	+.004 / -.000	5.250	0.105 - 0.125	0.105 - 0.125	-158	4.856	+.002 / -.002	0.130	+.002 / -.002	7.21
TFES-05500	5.500	+.004 / -.000	5.500	0.105 - 0.125	0.105 - 0.125	-159	5.106	+.002 / -.002	0.130	+.002 / -.002	7.41
TFES-05750	5.750	+.004 / -.000	5.750	0.133 - 0.153	0.133 - 0.153	-251	5.232	+.002 / -.002	0.159	+.002 / -.002	7.87
TFES-05875	5.875	+.004 / -.000	5.875	0.133 - 0.153	0.133 - 0.153	-252	5.357	+.002 / -.002	0.159	+.002 / -.002	20.15
TFES-06000	6.000	+.004 / -.000	6.000	0.133 - 0.153	0.133 - 0.153	-253	5.482	+.002 / -.002	0.159	+.002 / -.002	8.27
TFES-06125*	6.125	+.004 / -.000	6.125	0.133 - 0.153	0.133 - 0.153	.254	5.607	+.002 / -.002	0.159	+.002 / -.002	17.67
TFES-06250	6.250	+.004 / -.000	6.250	0.133 - 0.153	0.133 - 0.153	-255	5.732	+.002 / -.002	0.159	+.002 / -.002	8.82
TFES-06500	6.500	+.004 / -.000	6.500	0.133 - 0.153	0.133 - 0.153	-257	5.982	+.002 / -.002	0.159	+.002 / -.002	10.49
TFES-06750	6.750	+.005 / -.000	6.750	0.133 - 0.153	0.133 - 0.153	-258	6.232	+.002 / -.002	0.159	+.002 / -.002	10.96
TFES-07000	7.000	+.005 / -.000	7.000	0.133 - 0.153	0.133 - 0.153	-259	6.482	+.002 / -.002	0.159	+.002 / -.002	10.78
TFES-07250	7.250	+.005 / -.000	7.250	0.133 - 0.153	0.133 - 0.153	-260	6.732	+.002 / -.002	0.159	+.002 / -.002	10.78
TFES-07500	7.500	+.005 / -.000	7.500	0.133 - 0.153	0.133 - 0.153	-261	6.982	+.002 / -.002	0.159	+.002 / -.002	10.79
TFES-07750	7.750	+.005 / -.000	7.750	0.133 - 0.153	0.133 - 0.153	-262	7.232	+.002 / -.002	0.159	+.002 / -.002	11.13
TFES-08000	8.000	+.005 / -.000	8.000	0.133 - 0.153	0.133 - 0.153	-263	7.482	+.002 / -.002	0.159	+.002 / -.002	10.96
TFES-08125*	8.125	+.005 / -.000	8.125	0.133 - 0.153	0.133 - 0.153	-264	7.607	+.002 / -.002	0.159	+.002 / -.002	24.20
TFES-08250	8.250	+.005 / -.000	8.250	0.133 - 0.153	0.133 - 0.153	-264	7.732	+.002 / -.002	0.159	+.002 / -.002	26.55
TFES-08500	8.500	+.005 / -.000	8.500	0.133 - 0.153	0.133 - 0.153	-265	7.982	+.002 / -.002	0.159	+.002 / -.002	31.00
TFES-08750*	8.750	+.005 / -.000	8.750	0.133 - 0.153	0.133 - 0.153	-266	8.232	+.002 / -.002	0.159	+.002 / -.002	32.64
TFES-09000	9.000	+.005 / -.000	9.000	0.133 - 0.153	0.133 - 0.153	-267	8.482	+.002 / -.002	0.159	+.002 / -.002	32.57
TFES-09250*	9.250	+.005 / -.000	9.250	0.133 - 0.153	0.133 - 0.153	-268	8.732	+.002 / -.002	0.159	+.002 / -.002	39.37
TFES-09500*	9.500	+.005 / -.000	9.500	0.133 - 0.153	0.133 - 0.153	-269	8.982	+.002 / -.002	0.159	+.002 / -.002	41.99
TFES-09750*	9.750	+.005 / -.000	9.750	0.133 - 0.153	0.133 - 0.153	-270	9.232	+.002 / -.002	0.159	+.002 / -.002	45.58
TFES-10000	10.000	+.005 / -.000	10.000	0.133 - 0.153	0.133 - 0.153	-271	9.482	+.002 / -.002	0.159	+.002 / -.002	45.99
TFES-10250*	10.250	+.005 / -.000	10.250	0.133 - 0.153	0.133 - 0.153	-272	9.732	+.002 / -.002	0.159	+.002 / -.002	53.23
TFES-10500	10.500	+.005 / -.000	10.500	0.133 - 0.153	0.133 - 0.153	-273	9.982	+.002 / -.002	0.159	+.002 / -.002	58.77
TFES-10750*	10.750	+.005 / -.000	10.750	0.133 - 0.153	0.133 - 0.153	-274	10.232	+.002 / -.002	0.159	+.002 / -.002	62.86
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	63.64
TFES-11500*	11.500	+.006 / -.000	11.500	0.133 - 0.153	0.133 - 0.153	-276	10.982	+.002 / -.002	0.159	+.002 / -.002	65.21
TFES-12000	12.000	+.006 / -.000	12.000	0.133 - 0.153	0.133 - 0.153	-277	11.482	+.002 / -.002	0.159	+.002 / -.002	67.61
TFES-12500*	12.500	+.006 / -.000	12.500	0.133 - 0.153	0.133 - 0.153	-278	11.982	+.002 / -.002	0.159	+.002 / -.002	71.21
TFES-13000	13.000	+.006 / -.000	13.000	0.133 - 0.153	0.133 - 0.153	-278	12.482	+.002 / -.002	0.159	+.002 / -.002	87.01
TFES-14000	14.000	+.006 / -.000	14.000	0.133 - 0.153	0.133 - 0.153	-279	13.482	+.002 / -.002	0.159	+.002 / -.002	105.56

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

AU-S - Piston Seals

Polyurethane/Nitrile



Temperature: -40/200F [-40/93C] **Pressure: 5000 PSI [345 BAR]**

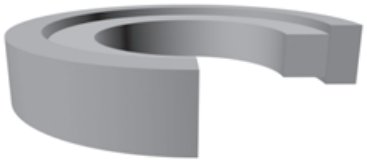
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
AUS-00500*	0.500	+.003 / -.000	0.500	0.065 - 0.075	0.065 - 0.075	-009	0.241	+.002 / -.002	0.083	+.002 / -.002	3.09
AUS-00625*	0.625	+.003 / -.000	0.625	0.065 - 0.075	0.065 - 0.075	-011	0.366	+.002 / -.002	0.083	+.002 / -.002	3.35
AUS-00750*	0.750	+.003 / -.000	0.750	0.065 - 0.075	0.065 - 0.075	-013	0.491	+.002 / -.002	0.083	+.002 / -.002	3.57
AUS-00875	0.875	+.003 / -.000	0.875	0.065 - 0.075	0.065 - 0.075	-015	0.616	+.002 / -.002	0.083	+.002 / -.002	3.67
AUS-01000*	1.000	+.003 / -.000	1.000	0.065 - 0.075	0.065 - 0.075	-017	0.741	+.002 / -.002	0.083	+.002 / -.002	3.96
AUS-01125*	1.125	+.003 / -.000	1.125	0.065 - 0.075	0.065 - 0.075	-019	0.866	+.002 / -.002	0.083	+.002 / -.002	4.09
AUS-01250*	1.250	+.003 / -.000	1.250	0.065 - 0.075	0.065 - 0.075	-021	0.991	+.002 / -.002	0.083	+.002 / -.002	4.17
AUS-01375*	1.375	+.003 / -.000	1.375	0.065 - 0.075	0.065 - 0.075	-023	1.116	+.002 / -.002	0.083	+.002 / -.002	4.23
AUS-01500	1.500	+.003 / -.000	1.500	0.065 - 0.075	0.065 - 0.075	-025	1.241	+.002 / -.002	0.083	+.002 / -.002	4.38
AUS-01562*	1.562	+.003 / -.000	1.562	0.104 - 0.114	0.104 - 0.114	-122	1.172	+.002 / -.002	0.122	+.002 / -.002	4.58
AUS-01625*	1.625	+.003 / -.000	1.625	0.104 - 0.114	0.104 - 0.114	-123	1.235	+.002 / -.002	0.122	+.002 / -.002	4.61
AUS-01687*	1.687	+.003 / -.000	1.687	0.104 - 0.114	0.104 - 0.114	-124	1.297	+.002 / -.002	0.122	+.002 / -.002	4.67
AUS-01750	1.750	+.003 / -.000	1.750	0.104 - 0.114	0.104 - 0.114	-125	1.360	+.002 / -.002	0.122	+.002 / -.002	4.55
AUS-01812*	1.812	+.003 / -.000	1.812	0.104 - 0.114	0.104 - 0.114	-126	1.422	+.002 / -.002	0.122	+.002 / -.002	4.70
AUS-01875	1.875	+.003 / -.000	1.875	0.104 - 0.114	0.104 - 0.114	-127	1.485	+.002 / -.002	0.122	+.002 / -.002	4.74
AUS-01937*	1.937	+.003 / -.000	1.937	0.104 - 0.114	0.104 - 0.114	-128	1.548	+.002 / -.002	0.122	+.002 / -.002	4.83
AUS-02000	2.000	+.003 / -.000	2.000	0.109 - 0.121	0.109 - 0.121	-129	1.606	+.002 / -.002	0.129	+.002 / -.002	4.73
AUS-02125*	2.125	+.003 / -.000	2.125	0.109 - 0.121	0.109 - 0.121	-131	1.731	+.002 / -.002	0.129	+.002 / -.002	4.93
AUS-02250	2.250	+.003 / -.000	2.250	0.109 - 0.121	0.109 - 0.121	-133	1.856	+.002 / -.002	0.129	+.002 / -.002	4.87
AUS-02375*	2.375	+.003 / -.000	2.375	0.109 - 0.121	0.109 - 0.121	-135	1.981	+.002 / -.002	0.129	+.002 / -.002	4.90
AUS-02500	2.500	+.003 / -.000	2.500	0.109 - 0.121	0.109 - 0.121	-137	2.106	+.002 / -.002	0.129	+.002 / -.002	4.92
AUS-02750	2.750	+.003 / -.000	2.750	0.109 - 0.121	0.109 - 0.121	-141	2.356	+.002 / -.002	0.129	+.002 / -.002	5.00
AUS-03000	3.000	+.004 / -.000	3.000	0.109 - 0.121	0.109 - 0.121	-145	2.606	+.002 / -.002	0.129	+.002 / -.002	5.13
AUS-03250	3.250	+.004 / -.000	3.250	0.109 - 0.121	0.109 - 0.121	-149	2.856	+.002 / -.002	0.129	+.002 / -.002	5.24
AUS-03500	3.500	+.004 / -.000	3.500	0.109 - 0.121	0.109 - 0.121	-151	3.106	+.002 / -.002	0.129	+.002 / -.002	5.40
AUS-03750	3.750	+.004 / -.000	3.750	0.109 - 0.121	0.109 - 0.121	-152	3.356	+.002 / -.002	0.129	+.002 / -.002	5.52
AUS-04000	4.000	+.004 / -.000	4.000	0.109 - 0.121	0.109 - 0.121	-153	3.606	+.002 / -.002	0.129	+.002 / -.002	5.89
AUS-04250	4.250	+.004 / -.000	4.250	0.109 - 0.121	0.109 - 0.121	-154	3.856	+.002 / -.002	0.129	+.002 / -.002	6.06
AUS-04500	4.500	+.004 / -.000	4.500	0.109 - 0.121	0.109 - 0.121	-155	4.106	+.002 / -.002	0.129	+.002 / -.002	6.68
AUS-04750*	4.750	+.004 / -.000	4.750	0.109 - 0.121	0.109 - 0.121	-156	4.356	+.002 / -.002	0.129	+.002 / -.002	6.90
AUS-05000	5.000	+.004 / -.000	5.000	0.109 - 0.121	0.109 - 0.121	-157	4.606	+.002 / -.002	0.129	+.002 / -.002	7.39
AUS-05250	5.250	+.004 / -.000	5.250	0.109 - 0.121	0.109 - 0.121	-158	4.856	+.002 / -.002	0.129	+.002 / -.002	7.84
AUS-05500	5.500	+.004 / -.000	5.500	0.109 - 0.121	0.109 - 0.121	-159	5.106	+.002 / -.002	0.129	+.002 / -.002	8.26
AUS-05750*	5.750	+.004 / -.000	5.750	0.136 - 0.150	0.136 - 0.150	-251	5.232	+.002 / -.002	0.159	+.003 / -.003	9.15
AUS-06000	6.000	+.004 / -.000	6.000	0.136 - 0.150	0.136 - 0.150	-253	5.482	+.002 / -.002	0.159	+.003 / -.003	11.72
AUS-06250	6.250	+.004 / -.000	6.250	0.136 - 0.150	0.136 - 0.150	-255	5.732	+.002 / -.002	0.159	+.003 / -.003	12.39
AUS-06500	6.500	+.004 / -.000	6.500	0.136 - 0.150	0.136 - 0.150	-257	5.982	+.002 / -.002	0.159	+.003 / -.003	12.32
AUS-06750*	6.750	+.005 / -.000	6.750	0.136 - 0.150	0.136 - 0.150	-258	6.232	+.002 / -.002	0.159	+.003 / -.003	13.10

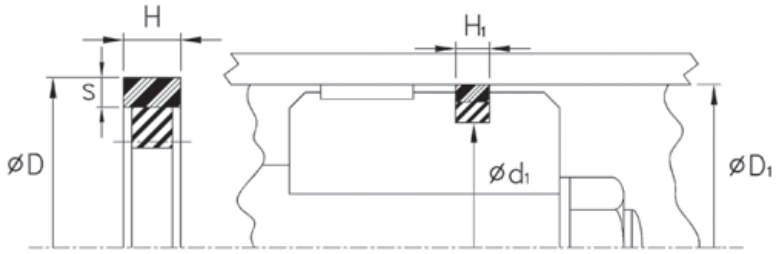
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
AUS-07000	7.000	+.005 / -.000	7.000	0.136 - 0.150	0.136 - 0.150	-259	6.482	+.002 / -.002	0.159	+.003 / -.003	13.01
AUS-07250*	7.250	+.005 / -.000	7.250	0.136 - 0.150	0.136 - 0.150	-260	6.732	+.002 / -.002	0.159	+.003 / -.003	13.49
AUS-07500	7.500	+.005 / -.000	7.500	0.136 - 0.150	0.136 - 0.150	-261	6.982	+.002 / -.002	0.159	+.003 / -.003	13.88
AUS-07750	7.750	+.005 / -.000	7.750	0.136 - 0.150	0.136 - 0.150	-262	7.232	+.002 / -.002	0.159	+.003 / -.003	14.22
AUS-08000	8.000	+.005 / -.000	8.000	0.136 - 0.150	0.136 - 0.150	-263	7.482	+.002 / -.002	0.159	+.003 / -.003	14.64
AUS-08250	8.250	+.005 / -.000	8.250	0.136 - 0.150	0.136 - 0.150	-264	7.732	+.002 / -.002	0.159	+.003 / -.003	15.11
AUS-08500*	8.500	+.005 / -.000	8.500	0.136 - 0.150	0.136 - 0.150	-265	7.982	+.002 / -.002	0.159	+.003 / -.003	14.77
AUS-09000*	9.000	+.005 / -.000	9.000	0.136 - 0.150	0.136 - 0.150	-267	8.482	+.002 / -.002	0.159	+.003 / -.003	17.11
AUS-09500*	9.500	+.005 / -.000	9.500	0.136 - 0.150	0.136 - 0.150	-269	8.982	+.002 / -.002	0.159	+.003 / -.003	17.83
AUS-10000*	10.000	+.005 / -.000	10.000	0.136 - 0.150	0.136 - 0.150	-271	9.482	+.002 / -.002	0.159	+.003 / -.003	17.98
AUS-11000*	11.000	+.006 / -.000	11.000	0.136 - 0.150	0.136 - 0.150	-274	10.482	+.002 / -.002	0.159	+.003 / -.003	20.37
AUS-12000*	12.000	+.006 / -.000	12.000	0.136 - 0.150	0.136 - 0.150	-276	11.482	+.002 / -.002	0.159	+.003 / -.003	22.16

160G - Piston Seals

GF.PTFE/Nitrile





Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	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	5.30
160G01125*	1.125	+.003 / -.000	1.125	0.055 - 0.060	0.088 - 0.093	-021	0.912	+.000 / -.003	0.094	+.003 / -.000	5.41
160G01250	1.250	+.003 / -.000	1.250	0.055 - 0.060	0.088 - 0.093	-023	1.037	+.000 / -.003	0.094	+.003 / -.000	5.55
160G01375	1.375	+.003 / -.000	1.375	0.055 - 0.060	0.088 - 0.093	-025	1.162	+.000 / -.003	0.094	+.003 / -.000	5.65
160G01500	1.500	+.003 / -.000	1.500	0.055 - 0.060	0.088 - 0.093	-027	1.287	+.000 / -.003	0.094	+.003 / -.000	5.81
160G01625	1.625	+.003 / -.000	1.625	0.055 - 0.060	0.088 - 0.093	-029	1.412	+.000 / -.003	0.094	+.003 / -.000	6.00
160G01750	1.750	+.003 / -.000	1.750	0.060 - 0.065	0.088 - 0.093	-127	1.473	+.000 / -.003	0.094	+.003 / -.000	6.55
160G01875	1.875	+.003 / -.000	1.875	0.060 - 0.065	0.120 - 0.125	-130	1.598	+.000 / -.003	0.126	+.003 / -.000	6.76
160G02000	2.000	+.003 / -.000	2.000	0.060 - 0.065	0.120 - 0.125	-132	1.723	+.000 / -.003	0.126	+.003 / -.000	7.31
160G02250	2.250	+.003 / -.000	2.250	0.060 - 0.065	0.120 - 0.125	-135	1.937	+.000 / -.003	0.126	+.003 / -.000	7.77
160G02375*	2.375	+.003 / -.000	2.375	0.060 - 0.065	0.120 - 0.125	-137	2.098	+.000 / -.003	0.126	+.003 / -.000	8.14
160G02500	2.500	+.003 / -.000	2.500	0.060 - 0.065	0.120 - 0.125	-140	2.223	+.000 / -.003	0.126	+.003 / -.000	8.14
160G02750	2.750	+.003 / -.000	2.750	0.085 - 0.090	0.150 - 0.155	-229	2.348	+.000 / -.003	0.157	+.003 / -.000	9.71
160G03000	3.000	+.004 / -.000	3.000	0.085 - 0.090	0.150 - 0.155	-231	2.603	+.000 / -.003	0.157	+.003 / -.000	12.52
160G03250	3.250	+.004 / -.000	3.250	0.085 - 0.090	0.150 - 0.155	-233	2.853	+.000 / -.003	0.157	+.003 / -.000	13.20
160G03500	3.500	+.004 / -.000	3.500	0.085 - 0.090	0.150 - 0.155	-235	3.103	+.000 / -.003	0.157	+.003 / -.000	13.59
160G03750	3.750	+.004 / -.000	3.750	0.085 - 0.090	0.150 - 0.155	-237	3.353	+.000 / -.003	0.157	+.003 / -.000	13.67
160G04000	4.000	+.004 / -.000	4.000	0.085 - 0.090	0.150 - 0.155	-238	3.600	+.000 / -.003	0.157	+.003 / -.000	13.97

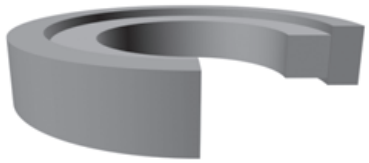
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

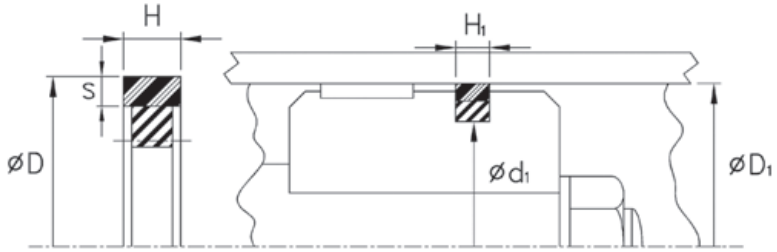
160G SERIES - GF.PTFE/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
160G04250	4.250	+.004 / -.000	4.250	0.085 - 0.090	0.150 - 0.155	-241	3.853	+.000 / -.003	0.157	+.003 / -.000	13.93
160G04500	4.500	+.004 / -.000	4.500	0.085 - 0.090	0.150 - 0.155	-243	4.103	+.000 / -.003	0.157	+.003 / -.000	14.10
160G04750*	4.750	+.004 / -.000	4.750	0.085 - 0.090	0.150 - 0.155	-245	4.353	+.000 / -.003	0.157	+.003 / -.000	17.19
160G05000	5.000	+.004 / -.000	5.000	0.085 - 0.090	0.150 - 0.155	-247	4.603	+.000 / -.003	0.157	+.003 / -.000	17.49
160G05250	5.250	+.004 / -.000	5.250	0.085 - 0.090	0.150 - 0.155	-249	4.853	+.000 / -.003	0.157	+.003 / -.000	18.69
160G05500	5.500	+.004 / -.000	5.500	0.085 - 0.090	0.150 - 0.155	-251	5.103	+.000 / -.003	0.157	+.003 / -.000	19.82
160G05750*	5.750	+.004 / -.000	5.750	0.085 - 0.090	0.150 - 0.155	-253	5.353	+.000 / -.003	0.157	+.003 / -.000	24.25
160G06000	6.000	+.004 / -.000	6.000	0.120 - 0.125	0.287 - 0.292	-431	5.305	+.000 / -.003	0.293	+.003 / -.000	27.51
160G06500*	6.500	+.004 / -.000	6.500	0.120 - 0.125	0.287 - 0.292	-435	5.805	+.000 / -.003	0.293	+.003 / -.000	34.40
160G07000	7.000	+.005 / -.000	7.000	0.120 - 0.125	0.287 - 0.292	-438	6.305	+.000 / -.003	0.293	+.003 / -.000	41.72
160G07500*	7.500	+.005 / -.000	7.500	0.120 - 0.125	0.287 - 0.292	-440	6.805	+.000 / -.003	0.293	+.003 / -.000	48.68
160G08000	8.000	+.005 / -.000	8.000	0.120 - 0.125	0.287 - 0.292	-442	7.305	+.000 / -.003	0.293	+.003 / -.000	55.80

TFER/G - Piston Seals

GF.PTFE/Nitrile





Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 BAR]**

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	5.09
TFER-01250/G	1.250	+.003 / -.000	1.250	0.067 - 0.073	0.116 - 0.121	-119	0.940	+.000 / -.004	0.125	+.002 / -.000	5.18
TFER-01500/G	1.500	+.003 / -.000	1.500	0.067 - 0.073	0.116 - 0.121	-123	1.190	+.000 / -.004	0.125	+.002 / -.000	5.34
TFER-01750/G	1.750	+.003 / -.000	1.750	0.067 - 0.073	0.116 - 0.121	-127	1.440	+.000 / -.004	0.125	+.002 / -.000	5.89
TFER-02000/G	2.000	+.003 / -.000	2.000	0.067 - 0.073	0.116 - 0.121	-131	1.690	+.000 / -.004	0.125	+.002 / -.000	7.15
TFER-02250/G	2.250	+.003 / -.000	2.250	0.067 - 0.073	0.116 - 0.121	-135	1.940	+.000 / -.004	0.125	+.002 / -.000	7.98
TFER-02500/G	2.500	+.003 / -.000	2.500	0.067 - 0.073	0.116 - 0.121	-139	2.190	+.000 / -.004	0.125	+.002 / -.000	8.05
TFER-02750/G	2.750	+.003 / -.000	2.750	0.067 - 0.073	0.116 - 0.121	-143	2.440	+.000 / -.004	0.125	+.002 / -.000	9.69
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	10.40
TFER-03250/G	3.250	+.004 / -.000	3.250	0.087 - 0.093	0.269 - 0.274	-335	2.694	+.000 / -.004	0.278	+.002 / -.000	12.33
TFER-03500/G	3.500	+.004 / -.000	3.500	0.087 - 0.093	0.269 - 0.274	-337	2.944	+.000 / -.004	0.278	+.002 / -.000	13.59
TFER-03750/G	3.750	+.004 / -.000	3.750	0.087 - 0.093	0.269 - 0.274	-339	3.194	+.000 / -.004	0.278	+.002 / -.000	15.45
TFER-04000/G	4.000	+.004 / -.000	4.000	0.087 - 0.093	0.269 - 0.274	-341	3.444	+.000 / -.004	0.278	+.002 / -.000	17.16
TFER-04250/G	4.250	+.004 / -.000	4.250	0.087 - 0.093	0.269 - 0.274	-343	3.694	+.000 / -.004	0.278	+.002 / -.000	19.82
TFER-04500/G	4.500	+.004 / -.000	4.500	0.087 - 0.093	0.269 - 0.274	-345	3.944	+.000 / -.004	0.278	+.002 / -.000	20.80
TFER-04625/G*	4.625	+.004 / -.000	4.625	0.087 - 0.093	0.269 - 0.274	-346	4.078	+.000 / -.004	0.278	+.002 / -.000	29.59
TFER-04750/G	4.750	+.004 / -.000	4.750	0.087 - 0.093	0.269 - 0.274	-347	4.194	+.000 / -.004	0.278	+.002 / -.000	21.45
TFER-05000/G	5.000	+.004 / -.000	5.000	0.087 - 0.093	0.269 - 0.274	-349	4.444	+.000 / -.004	0.278	+.002 / -.000	22.46

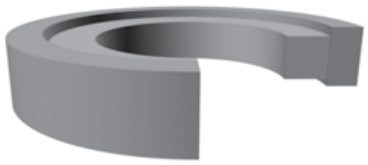
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

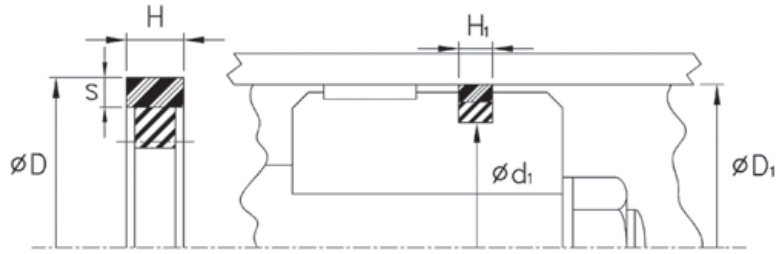
TFER/G SERIES - GF.PTFE/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
TFER-05250/G	5.250	+.004 / -.000	5.250	0.137 - 0.147	0.362 - 0.367	-425	4.476	+.000 / -.010	0.375	+.005 / -.000	26.46
TFER-05500/G	5.500	+.004 / -.000	5.500	0.137 - 0.147	0.362 - 0.367	-427	4.726	+.000 / -.010	0.375	+.005 / -.000	29.58
TFER-05625/G*	5.625	+.004 / -.000	5.625	0.137 - 0.147	0.362 - 0.367	-428	4.863	+.000 / -.010	0.375	+.005 / -.000	36.73
TFER-05750/G*	5.750	+.004 / -.000	5.750	0.137 - 0.147	0.362 - 0.367	-429	4.976	+.000 / -.010	0.375	+.005 / -.000	31.96
TFER-06000/G	6.000	+.004 / -.000	6.000	0.137 - 0.147	0.362 - 0.367	-431	5.226	+.000 / -.010	0.375	+.005 / -.000	34.30
TFER-06250/G	6.250	+.004 / -.000	6.250	0.137 - 0.147	0.362 - 0.367	-433	5.476	+.000 / -.010	0.375	+.005 / -.000	34.64
TFER-06500/G	6.500	+.004 / -.000	6.500	0.137 - 0.147	0.362 - 0.367	-435	5.726	+.000 / -.010	0.375	+.005 / -.000	34.64
TFER-07000/G	7.000	+.005 / -.000	7.000	0.137 - 0.147	0.362 - 0.367	-438	6.226	+.000 / -.010	0.375	+.005 / -.000	35.27
TFER-07250/G*	7.250	+.005 / -.000	7.250	0.137 - 0.147	0.362 - 0.367	-439	6.476	+.000 / -.010	0.375	+.005 / -.000	38.31
TFER-07500/G	7.500	+.005 / -.000	7.500	0.137 - 0.147	0.362 - 0.367	-440	6.726	+.000 / -.010	0.375	+.005 / -.000	35.35
TFER-08000/G	8.000	+.005 / -.000	8.000	0.137 - 0.147	0.362 - 0.367	-442	7.226	+.000 / -.010	0.375	+.005 / -.000	39.39
TFER-08250/G	8.250	+.005 / -.000	8.250	0.137 - 0.147	0.362 - 0.367	-443	7.476	+.000 / -.010	0.375	+.005 / -.000	41.95
TFER-08500/G	8.500	+.005 / -.000	8.500	0.137 - 0.147	0.362 - 0.367	-444	7.726	+.000 / -.010	0.375	+.005 / -.000	44.57
TFER-09000/G	9.000	+.005 / -.000	9.000	0.195 - 0.210	0.362 - 0.367	-445	8.122	+.000 / -.010	0.375	+.005 / -.000	52.72
TFER-09500/G	9.500	+.005 / -.000	9.500	0.195 - 0.210	0.362 - 0.367	-446	8.622	+.000 / -.010	0.375	+.005 / -.000	59.99
TFER-10000/G	10.000	+.005 / -.000	10.000	0.195 - 0.210	0.362 - 0.367	-447	9.122	+.000 / -.010	0.375	+.005 / -.000	58.66
TFER-10500/G*	10.500	+.005 / -.000	10.500	0.195 - 0.210	0.362 - 0.367	-448	9.622	+.000 / -.010	0.375	+.005 / -.000	125.14
TFER-11000/G	11.000	+.006 / -.000	11.000	0.195 - 0.210	0.362 - 0.367	-449	10.122	+.000 / -.010	0.375	+.005 / -.000	133.70
TFER-12000/G	12.000	+.006 / -.000	12.000	0.195 - 0.210	0.362 - 0.367	-451	11.122	+.000 / -.010	0.375	+.005 / -.000	138.68
TFER-12500/G*	12.500	+.006 / -.000	12.500	0.195 - 0.210	0.362 - 0.367	-452	11.622	+.000 / -.010	0.375	+.005 / -.000	147.44
TFER-13000/G	13.000	+.006 / -.000	13.000	0.195 - 0.210	0.362 - 0.367	-453	12.122	+.000 / -.010	0.375	+.005 / -.000	125.17
TFER-14000/G	14.000	+.006 / -.000	14.000	0.195 - 0.210	0.362 - 0.367	-455	13.122	+.000 / -.010	0.375	+.005 / -.000	150.42

TFER/B - Piston Seals

BR.PTFE/Nitrile





Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 BAR]**

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	7.97
TFER-01250/B	1.250	+.003 / -.000	1.250	0.067 - 0.073	0.116 - 0.121	-119	0.940	+.000 / -.004	0.125	+.002 / -.000	7.72
TFER-01500/B	1.500	+.003 / -.000	1.500	0.067 - 0.073	0.116 - 0.121	-123	1.190	+.000 / -.004	0.125	+.002 / -.000	8.06
TFER-01750/B	1.750	+.003 / -.000	1.750	0.067 - 0.073	0.116 - 0.121	-127	1.440	+.000 / -.004	0.125	+.002 / -.000	8.68
TFER-02000/B	2.000	+.003 / -.000	2.000	0.067 - 0.073	0.116 - 0.121	-131	1.690	+.000 / -.004	0.125	+.002 / -.000	9.99
TFER-02250/B	2.250	+.003 / -.000	2.250	0.067 - 0.073	0.116 - 0.121	-135	1.940	+.000 / -.004	0.125	+.002 / -.000	10.23
TFER-02500/B	2.500	+.003 / -.000	2.500	0.067 - 0.073	0.116 - 0.121	-139	2.190	+.000 / -.004	0.125	+.002 / -.000	10.93
TFER-02750/B	2.750	+.003 / -.000	2.750	0.067 - 0.073	0.116 - 0.121	-143	2.440	+.000 / -.004	0.125	+.002 / -.000	12.12

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

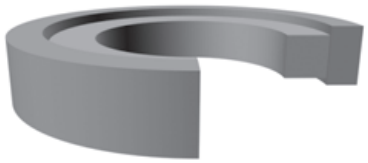
TFER/B SERIES - BR.PTFE/NBR

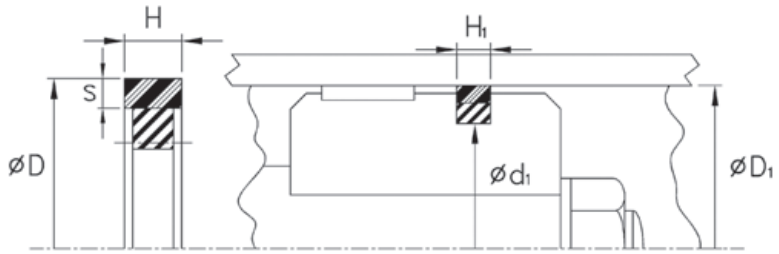
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
TFER-03000/B	3.000	+.004 / -.000	3.000	0.087 - 0.093	0.269 - 0.274	-333	2.444	+.000 / -.004	0.278	+.002 / -.000	12.97
TFER-03250/B	3.250	+.004 / -.000	3.250	0.087 - 0.093	0.269 - 0.274	-335	2.694	+.000 / -.004	0.278	+.002 / -.000	15.43
TFER-03500/B	3.500	+.004 / -.000	3.500	0.087 - 0.093	0.269 - 0.274	-337	2.944	+.000 / -.004	0.278	+.002 / -.000	17.00
TFER-03750/B	3.750	+.004 / -.000	3.750	0.087 - 0.093	0.269 - 0.274	-339	3.194	+.000 / -.004	0.278	+.002 / -.000	19.30
TFER-04000/B	4.000	+.004 / -.000	4.000	0.087 - 0.093	0.269 - 0.274	-341	3.444	+.000 / -.004	0.278	+.002 / -.000	21.45
TFER-04250/B	4.250	+.004 / -.000	4.250	0.087 - 0.093	0.269 - 0.274	-343	3.694	+.000 / -.004	0.278	+.002 / -.000	24.78
TFER-04500/B	4.500	+.004 / -.000	4.500	0.087 - 0.093	0.269 - 0.274	-345	3.944	+.000 / -.004	0.278	+.002 / -.000	26.01
TFER-04750/B	4.750	+.004 / -.000	4.750	0.087 - 0.093	0.269 - 0.274	-347	4.194	+.000 / -.004	0.278	+.002 / -.000	26.81
TFER-05000/B	5.000	+.004 / -.000	5.000	0.087 - 0.093	0.269 - 0.274	-349	4.444	+.000 / -.004	0.278	+.002 / -.000	28.08
TFER-05250/B	5.250	+.004 / -.000	5.250	0.137 - 0.147	0.362 - 0.367	-425	4.476	+.000 / -.010	0.375	+.005 / -.000	33.08
TFER-05500/B	5.500	+.004 / -.000	5.500	0.137 - 0.147	0.362 - 0.367	-427	4.726	+.000 / -.010	0.375	+.005 / -.000	36.98
TFER-05750/B	5.750	+.004 / -.000	5.750	0.137 - 0.147	0.362 - 0.367	-429	4.976	+.000 / -.010	0.375	+.005 / -.000	39.94
TFER-06000/B	6.000	+.004 / -.000	6.000	0.137 - 0.147	0.362 - 0.367	-431	5.226	+.000 / -.010	0.375	+.005 / -.000	42.90
TFER-06250/B	6.250	+.004 / -.000	6.250	0.137 - 0.147	0.362 - 0.367	-433	5.476	+.000 / -.010	0.375	+.005 / -.000	43.11
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	43.29
TFER-07000/B	7.000	+.005 / -.000	7.000	0.137 - 0.147	0.362 - 0.367	-438	6.226	+.000 / -.010	0.375	+.005 / -.000	44.08
TFER-07250/B	7.250	+.005 / -.000	7.250	0.137 - 0.147	0.362 - 0.367	-439	6.476	+.000 / -.010	0.375	+.005 / -.000	44.15
TFER-07500/B	7.500	+.005 / -.000	7.500	0.137 - 0.147	0.362 - 0.367	-440	6.726	+.000 / -.010	0.375	+.005 / -.000	44.22
TFER-07750/B	7.750	+.005 / -.000	7.750	0.137 - 0.147	0.362 - 0.367	-441	6.976	+.000 / -.010	0.375	+.005 / -.000	47.73
TFER-08000/B	8.000	+.005 / -.000	8.000	0.137 - 0.147	0.362 - 0.367	-442	7.226	+.000 / -.010	0.375	+.005 / -.000	50.46
TFER-08250/B*	8.250	+.005 / -.000	8.250	0.137 - 0.147	0.362 - 0.367	-443	7.476	+.000 / -.010	0.375	+.005 / -.000	53.96
TFER-08500/B	8.500	+.005 / -.000	8.500	0.137 - 0.147	0.362 - 0.367	-444	7.726	+.000 / -.010	0.375	+.005 / -.000	59.24
TFER-09000/B	9.000	+.005 / -.000	9.000	0.195 - 0.210	0.362 - 0.367	-445	8.122	+.000 / -.010	0.375	+.005 / -.000	68.13
TFER-09500/B	9.500	+.005 / -.000	9.500	0.195 - 0.210	0.362 - 0.367	-446	8.622	+.000 / -.010	0.375	+.005 / -.000	86.05
TFER-09750/B	9.750	+.005 / -.000	9.750	0.195 - 0.210	0.362 - 0.367	-446	8.872	+.000 / -.010	0.375	+.005 / -.000	91.72
TFER-10000/B	10.000	+.005 / -.000	10.000	0.195 - 0.210	0.362 - 0.367	-447	9.122	+.000 / -.010	0.375	+.005 / -.000	94.65
TFER-10500/B	10.500	+.005 / -.000	10.500	0.195 - 0.210	0.362 - 0.367	-448	9.622	+.000 / -.010	0.375	+.005 / -.000	150.50
TFER-11000/B	11.000	+.006 / -.000	11.000	0.195 - 0.210	0.362 - 0.367	-449	10.122	+.000 / -.010	0.375	+.005 / -.000	167.14
TFER-12000/B	12.000	+.006 / -.000	12.000	0.195 - 0.210	0.362 - 0.367	-451	11.122	+.000 / -.010	0.375	+.005 / -.000	173.36
TFER-12500/B	12.500	+.006 / -.000	12.500	0.195 - 0.210	0.362 - 0.367	-452	11.622	+.000 / -.010	0.375	+.005 / -.000	177.93
TFER-13000/B	13.000	+.006 / -.000	13.000	0.195 - 0.210	0.362 - 0.367	-453	12.122	+.000 / -.010	0.375	+.005 / -.000	179.83
TFER-14000/B	14.000	+.006 / -.000	14.000	0.195 - 0.210	0.362 - 0.367	-455	13.122	+.000 / -.010	0.375	+.005 / -.000	194.84
TFER-15000/B	15.000	+.006 / -.000	15.000	0.195 - 0.210	0.362 - 0.367	-457	14.122	+.000 / -.010	0.375	+.005 / -.000	237.81
TFER-16000/B	16.000	+.006 / -.000	16.000	0.195 - 0.210	0.362 - 0.367	-459	15.122	+.000 / -.010	0.375	+.005 / -.000	350.74
TFER-17000/B*	17.000	+.006 / -.000	17.000	0.195 - 0.210	0.362 - 0.367	-461	16.122	+.000 / -.010	0.375	+.005 / -.000	357.22
TFER-20000/B	20.000	+.006 / -.000	20.000	0.195 - 0.210	0.362 - 0.367	-467	19.122	+.000 / -.010	0.375	+.005 / -.000	639.98

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

TFER/U - Piston Seals

Polyurethane/Nitrile





Temperature: -40/220F [-40/104C] **Pressure: 5000 PSI [345 BAR]**

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	5.19
TFER-01250/U	1.250	+.002 / -.000	1.250	0.067 - 0.073	0.116 - 0.121	-119	0.941	+.002 / -.002	0.129	+.002 / -.002	5.19
TFER-01500/U	1.500	+.002 / -.000	1.500	0.067 - 0.073	0.116 - 0.121	-123	1.191	+.002 / -.002	0.129	+.002 / -.002	5.41
TFER-01750/U	1.750	+.002 / -.000	1.750	0.067 - 0.073	0.116 - 0.121	-127	1.441	+.002 / -.002	0.129	+.002 / -.002	5.41
TFER-02000/U	2.000	+.003 / -.000	2.000	0.067 - 0.073	0.116 - 0.121	-131	1.691	+.002 / -.002	0.129	+.002 / -.002	5.84
TFER-02000/U-1*	2.000	+.003 / -.000	2.000	0.106 - 0.125	0.116 - 0.121	-129	1.606	+.002 / -.002	0.129	+.002 / -.002	6.03
TFER-02000/U-2*	2.000	+.003 / -.000	2.000	0.102 - 0.108	0.269 - 0.274	-325	1.462	+.002 / -.002	0.283	+.003 / -.003	6.07
TFER-02250/U	2.250	+.003 / -.000	2.250	0.067 - 0.073	0.116 - 0.121	-135	1.941	+.002 / -.002	0.129	+.002 / -.002	6.16
TFER-02500/U	2.500	+.003 / -.000	2.500	0.067 - 0.073	0.116 - 0.121	-139	2.191	+.002 / -.002	0.129	+.002 / -.002	6.43
TFER-02500/U-1*	2.500	+.003 / -.000	2.500	0.105 - 0.125	0.116 - 0.121	-137	2.106	+.002 / -.002	0.129	+.002 / -.002	6.51
TFER-02500/U-2	2.500	+.003 / -.000	2.500	0.102 - 0.108	0.269 - 0.274	-329	1.962	+.002 / -.002	0.283	+.003 / -.003	9.23
TFER-02750/U	2.750	+.003 / -.000	2.750	0.067 - 0.073	0.116 - 0.121	-143	2.441	+.002 / -.002	0.129	+.002 / -.002	6.60
TFER-03000/U	3.000	+.003 / -.000	3.000	0.087 - 0.093	0.269 - 0.274	-333	2.462	+.002 / -.002	0.283	+.003 / -.003	8.13
TFER-03250/U	3.250	+.003 / -.000	3.250	0.087 - 0.093	0.269 - 0.274	-335	2.712	+.002 / -.002	0.283	+.003 / -.003	9.67
TFER-03500/U	3.500	+.003 / -.000	3.500	0.087 - 0.093	0.269 - 0.274	-337	2.962	+.002 / -.002	0.283	+.003 / -.003	9.81
TFER-03500/755	3.500	+.003 / -.000	3.500	0.087 - 0.093	0.269 - 0.274	-337	2.962	+.002 / -.002	0.283	+.003 / -.003	10.78
TFER-03750/U	3.750	+.003 / -.000	3.750	0.087 - 0.093	0.269 - 0.274	-339	3.212	+.002 / -.002	0.283	+.003 / -.003	9.93
TFER-04000/U	4.000	+.003 / -.000	4.000	0.087 - 0.093	0.269 - 0.274	-341	3.462	+.002 / -.002	0.283	+.003 / -.003	10.16
TFER-04250/U	4.250	+.003 / -.000	4.250	0.087 - 0.093	0.269 - 0.274	-343	3.712	+.002 / -.002	0.283	+.003 / -.003	10.22
TFER-04500/U	4.500	+.003 / -.000	4.500	0.087 - 0.093	0.269 - 0.274	-345	3.962	+.002 / -.002	0.283	+.003 / -.003	10.55
TFER-04500/755	4.500	+.003 / -.000	4.500	0.087 - 0.093	0.269 - 0.274	-345	3.962	+.002 / -.002	0.283	+.003 / -.003	10.84
TFER-04750/U	4.750	+.004 / -.000	4.750	0.087 - 0.093	0.269 - 0.274	-347	4.212	+.002 / -.002	0.283	+.003 / -.003	10.93
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	12.55
TFER-05250/U	5.250	+.004 / -.000	5.250	0.137 - 0.147	0.362 - 0.367	-425	4.504	+.002 / -.002	0.378	+.004 / -.004	17.52
TFER-05500/U	5.500	+.004 / -.000	5.500	0.137 - 0.147	0.362 - 0.367	-427	4.754	+.003 / -.003	0.378	+.004 / -.004	17.66
TFER-05750/U*	5.750	+.004 / -.000	5.750	0.137 - 0.147	0.362 - 0.367	-429	5.004	+.003 / -.003	0.378	+.004 / -.004	21.31
TFER-06000/U	6.000	+.004 / -.000	6.000	0.137 - 0.147	0.362 - 0.367	-431	5.254	+.003 / -.003	0.378	+.004 / -.004	18.46
TFER-06250/U	6.250	+.004 / -.000	6.250	0.137 - 0.147	0.362 - 0.367	-433	5.504	+.003 / -.003	0.378	+.004 / -.004	19.01
TFER-06500/U	6.500	+.004 / -.000	6.500	0.137 - 0.147	0.362 - 0.367	-435	5.754	+.003 / -.003	0.378	+.004 / -.004	19.03
TFER-07000/U	7.000	+.004 / -.000	7.000	0.137 - 0.147	0.362 - 0.367	-438	6.254	+.003 / -.003	0.378	+.004 / -.004	19.32
TFER-07000/U-1*	7.000	+.005 / -.000	7.000	0.137 - 0.147	0.296 - 0.304	-438	6.250	+.003 / -.003	0.312	+.004 / -.004	23.12
TFER-07250/U	7.250	+.005 / -.000	7.250	0.137 - 0.147	0.362 - 0.367	-439	6.504	+.003 / -.003	0.378	+.004 / -.004	19.87
TFER-07500/U	7.500	+.005 / -.000	7.500	0.137 - 0.147	0.362 - 0.367	-440	6.754	+.003 / -.003	0.378	+.004 / -.004	24.27
TFER-08000/U	8.000	+.005 / -.000	8.000	0.137 - 0.147	0.362 - 0.367	-442	7.254	+.003 / -.003	0.378	+.004 / -.004	20.33
TFER-08437/U*	8.437	+.005 / -.000	8.437	0.137 - 0.147	0.362 - 0.367	-443	7.691	+.003 / -.003	0.378	+.004 / -.004	26.31
TFER-08500/U*	8.500	+.005 / -.000	8.500	0.137 - 0.147	0.362 - 0.367	-444	7.754	+.003 / -.003	0.378	+.004 / -.004	23.16
TFER-09000/U	9.000	+.005 / -.000	9.000	0.195 - 0.210	0.362 - 0.367	-445	8.137	+.003 / -.003	0.378	+.004 / -.004	47.39

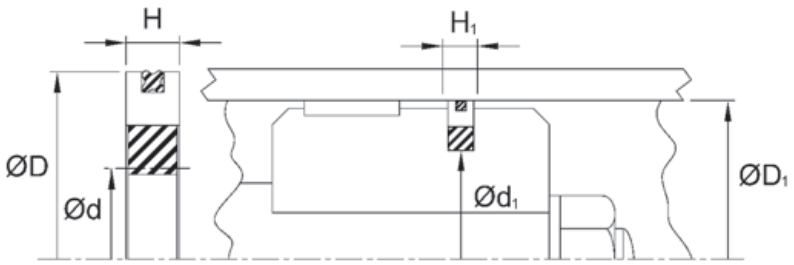
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

TFER/U SERIES - AU/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
TFER-09500/U*	9.500	+.005 / -.000	9.500	0.195 - 0.210	0.362 - 0.367	-446	8.637	+.003 / -.003	0.378	+.004 / -.004	31.20
TFER-10000/U	10.000	+.005 / -.000	10.000	0.195 - 0.210	0.362 - 0.367	-447	9.137	+.003 / -.003	0.378	+.004 / -.004	55.97

AQ - Piston Seals

BR.PTFE/Nitrile



Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 BAR]**

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	28.62
AQ-01125/2*	1.125	+.003 / -.000	1.125	0.118 - 0.122	0.198 - 0.202	-209	-022	0.701	+.000 / -.004	0.210	+.005 / -.000	30.52
AQ-01250/2*	1.250	+.003 / -.000	1.250	0.118 - 0.122	0.198 - 0.202	-211	-024	0.826	+.000 / -.004	0.210	+.005 / -.000	32.40
AQ-01375/2*	1.375	+.003 / -.000	1.375	0.118 - 0.122	0.198 - 0.202	-213	-026	0.951	+.000 / -.004	0.210	+.005 / -.000	33.22
AQ-01500/2	1.500	+.003 / -.000	1.500	0.118 - 0.122	0.198 - 0.202	-215	-028	1.076	+.000 / -.004	0.210	+.005 / -.000	33.27
AQ-01500/3	1.500	+.003 / -.000	1.500	0.130 - 0.134	0.268 - 0.272	-316	-124	0.884	+.000 / -.004	0.288	+.005 / -.000	33.41
AQ-01625/2*	1.625	+.003 / -.000	1.625	0.118 - 0.122	0.198 - 0.202	-217	-029	1.201	+.000 / -.004	0.210	+.005 / -.000	38.43
AQ-01750/2*	1.750	+.003 / -.000	1.750	0.118 - 0.122	0.198 - 0.202	-219	-030	1.326	+.000 / -.004	0.210	+.005 / -.000	40.51
AQ-01875/2*	1.875	+.003 / -.000	1.875	0.118 - 0.122	0.198 - 0.202	-221	-031	1.451	+.000 / -.006	0.210	+.005 / -.000	42.39
AQ-02000/3	2.000	+.003 / -.000	2.000	0.130 - 0.134	0.268 - 0.272	-324	-133	1.384	+.000 / -.006	0.288	+.005 / -.000	43.45
AQ-02125/3*	2.125	+.003 / -.000	2.125	0.130 - 0.134	0.268 - 0.272	-325	-135	1.509	+.000 / -.006	0.288	+.005 / -.000	44.23
AQ-02250/3	2.250	+.003 / -.000	2.250	0.130 - 0.134	0.268 - 0.272	-326	-137	1.634	+.000 / -.006	0.288	+.005 / -.000	44.95
AQ-02375/3*	2.375	+.003 / -.000	2.375	0.130 - 0.134	0.268 - 0.272	-327	-139	1.759	+.000 / -.006	0.288	+.005 / -.000	50.11
AQ-02500/3	2.500	+.003 / -.000	2.500	0.130 - 0.134	0.268 - 0.272	-328	-141	1.884	+.000 / -.006	0.288	+.005 / -.000	47.38
AQ-02625/3*	2.625	+.003 / -.000	2.625	0.130 - 0.134	0.268 - 0.272	-329	-143	2.009	+.000 / -.006	0.288	+.005 / -.000	54.43
AQ-02750/3	2.750	+.003 / -.000	2.750	0.130 - 0.134	0.268 - 0.272	-330	-145	2.134	+.000 / -.006	0.288	+.005 / -.000	49.24
AQ-02875/3	2.875	+.003 / -.000	2.875	0.130 - 0.134	0.268 - 0.272	-331	-147	2.259	+.000 / -.006	0.288	+.005 / -.000	57.93
AQ-03000/3	3.000	+.004 / -.000	3.000	0.130 - 0.134	0.268 - 0.272	-332	-149	2.384	+.000 / -.006	0.288	+.005 / -.000	51.12
AQ-03125/3	3.125	+.004 / -.000	3.125	0.130 - 0.134	0.268 - 0.272	-333	-150	2.509	+.000 / -.006	0.288	+.005 / -.000	61.37
AQ-03250/3	3.250	+.004 / -.000	3.250	0.130 - 0.134	0.268 - 0.272	-334	-151	2.634	+.000 / -.006	0.288	+.005 / -.000	54.03
AQ-03375/3*	3.375	+.004 / -.000	3.375	0.130 - 0.134	0.268 - 0.272	-335	-151	2.759	+.000 / -.006	0.288	+.005 / -.000	63.53
AQ-03500/3	3.500	+.004 / -.000	3.500	0.130 - 0.134	0.268 - 0.272	-336	-152	2.884	+.000 / -.006	0.288	+.005 / -.000	55.13
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	65.63
AQ-03750/3	3.750	+.004 / -.000	3.750	0.130 - 0.134	0.268 - 0.272	-338	-153	3.134	+.000 / -.006	0.288	+.005 / -.000	55.21
AQ-03875/3*	3.875	+.004 / -.000	3.875	0.130 - 0.134	0.268 - 0.272	-339	-153	3.259	+.000 / -.006	0.288	+.005 / -.000	67.72
AQ-04000/3	4.000	+.004 / -.000	4.000	0.130 - 0.134	0.268 - 0.272	-340	-154	3.384	+.000 / -.006	0.288	+.005 / -.000	55.32
AQ-04125/3	4.125	+.004 / -.000	4.125	0.130 - 0.134	0.268 - 0.272	-341	-154	3.509	+.000 / -.006	0.288	+.005 / -.000	71.31
AQ-04250/3	4.250	+.004 / -.000	4.250	0.130 - 0.134	0.268 - 0.272	-342	-155	3.634	+.000 / -.006	0.288	+.005 / -.000	73.45

*** : 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-04375/3*	4.375	+.004 / -.000	4.375	0.130 - 0.134	0.268 - 0.272	-343	-155	3.759	+.000 / -.006	0.288	+.005 / -.000	76.24
AQ-04500/3	4.500	+.004 / -.000	4.500	0.130 - 0.134	0.268 - 0.272	-344	-156	3.884	+.000 / -.006	0.288	+.005 / -.000	62.86
AQ-04625/3*	4.625	+.004 / -.000	4.625	0.130 - 0.134	0.268 - 0.272	-345	-156	4.009	+.000 / -.006	0.288	+.005 / -.000	80.84
AQ-04750/3	4.750	+.004 / -.000	4.750	0.130 - 0.134	0.268 - 0.272	-346	-157	4.134	+.000 / -.007	0.288	+.005 / -.000	65.09
AQ-04875/3*	4.875	+.004 / -.000	4.875	0.130 - 0.134	0.268 - 0.272	-347	-157	4.259	+.000 / -.007	0.288	+.005 / -.000	84.63
AQ-05000/3	5.000	+.004 / -.000	5.000	0.130 - 0.134	0.268 - 0.272	-348	-158	4.384	+.000 / -.007	0.288	+.005 / -.000	68.09
AQ-05000/4	5.000	+.004 / -.000	5.000	0.203 - 0.209	0.363 - 0.367	-422	-248	4.160	+.000 / -.007	0.375	+.005 / -.000	71.91
AQ-05125/3*	5.125	+.004 / -.000	5.125	0.130 - 0.134	0.268 - 0.272	-349	-158	4.509	+.000 / -.007	0.288	+.005 / -.000	90.66
AQ-05250/3	5.250	+.004 / -.000	5.250	0.130 - 0.134	0.268 - 0.272	-350	-159	4.634	+.000 / -.007	0.288	+.005 / -.000	77.02
AQ-05375/4*	5.375	+.004 / -.000	5.375	0.203 - 0.209	0.363 - 0.367	-425	-251	4.535	+.000 / -.007	0.375	+.005 / -.000	98.33
AQ-05500/4	5.500	+.004 / -.000	5.500	0.203 - 0.209	0.363 - 0.367	-426	-252	4.660	+.000 / -.007	0.375	+.005 / -.000	82.92
AQ-05625/4*	5.625	+.004 / -.000	5.625	0.203 - 0.209	0.363 - 0.367	-427	-253	4.785	+.000 / -.007	0.375	+.005 / -.000	102.65
AQ-05750/4	5.750	+.004 / -.000	5.750	0.203 - 0.209	0.363 - 0.367	-428	-254	4.910	+.000 / -.007	0.375	+.005 / -.000	105.29
AQ-05875/4*	5.875	+.004 / -.000	5.875	0.203 - 0.209	0.363 - 0.367	-429	-255	5.035	+.000 / -.007	0.375	+.005 / -.000	107.95
AQ-06000/4	6.000	+.004 / -.000	6.000	0.203 - 0.209	0.363 - 0.367	-430	-256	5.160	+.000 / -.007	0.375	+.005 / -.000	108.25
AQ-06125/4*	6.125	+.004 / -.000	6.125	0.203 - 0.209	0.363 - 0.367	-431	-257	5.285	+.000 / -.007	0.375	+.005 / -.000	112.60
AQ-06250/4	6.250	+.004 / -.000	6.250	0.203 - 0.209	0.363 - 0.367	-432	-258	5.410	+.000 / -.007	0.375	+.005 / -.000	114.56
AQ-06375/4*	6.375	+.004 / -.000	6.375	0.203 - 0.209	0.363 - 0.367	-433	-258	5.535	+.000 / -.007	0.375	+.005 / -.000	116.68
AQ-06500/4	6.500	+.004 / -.000	6.500	0.203 - 0.209	0.363 - 0.367	-434	-259	5.660	+.000 / -.007	0.375	+.005 / -.000	108.49
AQ-06625/4*	6.625	+.004 / -.000	6.625	0.203 - 0.209	0.363 - 0.367	-435	-259	5.785	+.000 / -.007	0.375	+.005 / -.000	121.78
AQ-06750/4	6.750	+.005 / -.000	6.750	0.203 - 0.209	0.363 - 0.367	-436	-260	5.910	+.000 / -.007	0.375	+.005 / -.000	125.00
AQ-06875/4*	6.875	+.005 / -.000	6.875	0.203 - 0.209	0.363 - 0.367	-437	-260	6.035	+.000 / -.007	0.375	+.005 / -.000	128.27
AQ-07000/4	7.000	+.005 / -.000	7.000	0.203 - 0.209	0.363 - 0.367	-437	-261	6.160	+.000 / -.009	0.375	+.005 / -.000	96.20
AQ-07250/4*	7.250	+.005 / -.000	7.250	0.203 - 0.209	0.363 - 0.367	-438	-262	6.410	+.000 / -.009	0.375	+.005 / -.000	134.52
AQ-07500/4	7.500	+.005 / -.000	7.500	0.203 - 0.209	0.363 - 0.367	-439	-263	6.660	+.000 / -.009	0.375	+.005 / -.000	137.02
AQ-07750/4	7.750	+.005 / -.000	7.750	0.203 - 0.209	0.363 - 0.367	-440	-264	6.910	+.000 / -.009	0.375	+.005 / -.000	101.08
AQ-08000/4	8.000	+.005 / -.000	8.000	0.203 - 0.209	0.363 - 0.367	-441	-265	7.160	+.000 / -.009	0.375	+.005 / -.000	105.56
AQ-08250/4*	8.250	+.005 / -.000	8.250	0.203 - 0.209	0.363 - 0.367	-442	-266	7.410	+.000 / -.009	0.375	+.005 / -.000	146.34
AQ-08500/4	8.500	+.005 / -.000	8.500	0.203 - 0.209	0.363 - 0.367	-443	-267	7.660	+.000 / -.009	0.375	+.005 / -.000	147.59
AQ-08750/4*	8.750	+.005 / -.000	8.750	0.203 - 0.209	0.363 - 0.367	-444	-268	7.910	+.000 / -.009	0.375	+.005 / -.000	155.55
AQ-09000/4	9.000	+.005 / -.000	9.000	0.203 - 0.209	0.363 - 0.367	-445	-269	8.160	+.000 / -.009	0.375	+.005 / -.000	163.44
AQ-09250/4*	9.250	+.005 / -.000	9.250	0.203 - 0.209	0.363 - 0.367	-445	-270	8.410	+.000 / -.009	0.375	+.005 / -.000	167.39
AQ-09500/4*	9.500	+.005 / -.000	9.500	0.203 - 0.209	0.363 - 0.367	-446	-271	8.660	+.000 / -.009	0.375	+.005 / -.000	171.35
AQ-09750/4	9.750	+.005 / -.000	9.750	0.203 - 0.209	0.363 - 0.367	-446	-272	8.910	+.000 / -.009	0.375	+.005 / -.000	175.30
AQ-10000/4	10.000	+.005 / -.000	10.000	0.203 - 0.209	0.363 - 0.367	-447	-273	9.160	+.000 / -.009	0.375	+.005 / -.000	179.26
AQ-10250/4*	10.250	+.005 / -.000	10.250	0.203 - 0.209	0.363 - 0.367	-447	-274	9.410	+.000 / -.011	0.375	+.005 / -.000	201.59
AQ-10250/5*	10.250	+.005 / -.000	10.250	0.246 - 0.262	0.363 - 0.367	-447	-274	9.330	+.000 / -.011	0.375	+.005 / -.000	201.59
AQ-10500/4*	10.500	+.005 / -.000	10.500	0.203 - 0.209	0.363 - 0.367	-448	-274	9.660	+.000 / -.011	0.375	+.005 / -.000	224.11
AQ-10500/5*	10.500	+.005 / -.000	10.500	0.246 - 0.262	0.363 - 0.367	-448	-274	9.580	+.000 / -.011	0.375	+.005 / -.000	224.11
AQ-10750/5*	10.750	+.005 / -.000	10.750	0.246 - 0.262	0.363 - 0.367	-448	-275	9.830	+.000 / -.011	0.375	+.005 / -.000	232.09
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	239.96
AQ-11250/5*	11.250	+.006 / -.000	11.250	0.246 - 0.262	0.363 - 0.367	-449	-276	10.330	+.000 / -.011	0.375	+.005 / -.000	247.76
AQ-11500/5*	11.500	+.006 / -.000	11.500	0.246 - 0.262	0.363 - 0.367	-450	-276	10.580	+.000 / -.011	0.375	+.005 / -.000	255.80
AQ-11750/4*	11.750	+.006 / -.000	11.750	0.203 - 0.209	0.363 - 0.367	-450	-277	10.910	+.000 / -.011	0.375	+.005 / -.000	262.42
AQ-11750/5*	11.750	+.006 / -.000	11.750	0.246 - 0.262	0.363 - 0.367	-450	-277	10.830	+.000 / -.011	0.375	+.005 / -.000	262.42
AQ-12000/5	12.000	+.006 / -.000	12.000	0.246 - 0.262	0.363 - 0.367	-451	-277	11.080	+.000 / -.011	0.375	+.005 / -.000	269.03
AQ-12250/4*	12.250	+.006 / -.000	12.250	0.203 - 0.209	0.363 - 0.367	-451	-278	11.410	+.000 / -.011	0.375	+.005 / -.000	275.65
AQ-12250/5*	12.250	+.006 / -.000	12.250	0.246 - 0.262	0.363 - 0.367	-451	-278	11.330	+.000 / -.011	0.375	+.005 / -.000	275.65

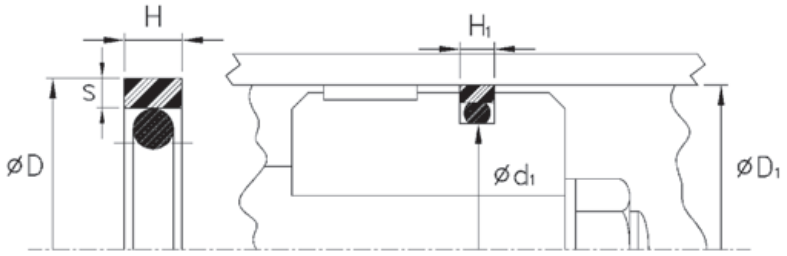
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

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-12500/4*	12.500	+.006 / -.000	12.500	0.203 - 0.209	0.363 - 0.367	-452	-278	11.660	+.000 / -.011	0.375	+.005 / -.000	282.28
AQ-12500/5*	12.500	+.006 / -.000	12.500	0.246 - 0.262	0.363 - 0.367	-452	-278	11.580	+.000 / -.011	0.375	+.005 / -.000	282.28
AQ-12750/5*	12.750	+.006 / -.000	12.750	0.246 - 0.262	0.363 - 0.367	-452	-278	11.830	+.000 / -.011	0.375	+.005 / -.000	288.90
AQ-13000/5	13.000	+.006 / -.000	13.000	0.246 - 0.262	0.363 - 0.367	-453	-278	12.080	+.000 / -.011	0.375	+.005 / -.000	295.51
AQ-13250/5*	13.250	+.006 / -.000	13.250	0.246 - 0.262	0.363 - 0.367	-453	-279	12.330	+.000 / -.011	0.375	+.005 / -.000	302.12
AQ-13500/5	13.500	+.006 / -.000	13.500	0.246 - 0.262	0.363 - 0.367	-454	-279	12.580	+.000 / -.011	0.375	+.005 / -.000	308.76
AQ-13750/5*	13.750	+.006 / -.000	13.750	0.246 - 0.262	0.363 - 0.367	-454	-279	12.830	+.000 / -.011	0.375	+.005 / -.000	315.38
AQ-14000/5*	14.000	+.006 / -.000	14.000	0.246 - 0.262	0.363 - 0.367	-455	-279	13.080	+.000 / -.011	0.375	+.005 / -.000	321.99

PS2470 - Piston Seals

BR.PTFE/Nitrile



Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	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	10.17
PS2472-28	1.750	+.003 / -.000	1.750	0.100	0.150	-219	1.317	+.000 / -.004	0.168	+.000 / -.002	11.82
PS2472-32	2.000	+.003 / -.000	2.000	0.100	0.150	-222	1.576	+.000 / -.004	0.168	+.000 / -.002	12.99
PS2472-36	2.250	+.003 / -.000	2.250	0.100	0.150	-224	1.826	+.000 / -.004	0.168	+.000 / -.002	13.49
PS2472-40	2.500	+.003 / -.000	2.500	0.100	0.150	-227	2.076	+.000 / -.004	0.168	+.000 / -.002	13.76
PS2472-44	2.750	+.003 / -.000	2.750	0.100	0.150	-228	2.317	+.000 / -.004	0.168	+.000 / -.002	18.89
PS2472-48	3.000	+.004 / -.000	3.000	0.100	0.150	-230	2.567	+.000 / -.004	0.168	+.000 / -.002	15.22
PS2473-48	3.000	+.004 / -.000	3.000	0.140	0.225	-332	2.390	+.000 / -.004	0.249	+.000 / -.002	22.92
PS2473-52	3.250	+.004 / -.000	3.250	0.140	0.225	-334	2.640	+.000 / -.004	0.249	+.000 / -.002	24.30
PS2473-56	3.500	+.004 / -.000	3.500	0.140	0.225	-336	2.890	+.000 / -.004	0.249	+.000 / -.002	25.03
PS2472-60	3.750	+.004 / -.000	3.750	0.100	0.150	-236	3.317	+.000 / -.004	0.168	+.000 / -.002	26.40
PS2472-64	4.000	+.004 / -.000	4.000	0.100	0.150	-238	3.567	+.000 / -.004	0.168	+.000 / -.002	27.64
PS2473-64	4.000	+.004 / -.000	4.000	0.140	0.225	-340	3.390	+.000 / -.004	0.249	+.000 / -.002	27.61
PS2473-68	4.250	+.004 / -.000	4.250	0.140	0.225	-342	3.640	+.000 / -.004	0.249	+.000 / -.002	26.25
PS2473-72	4.500	+.004 / -.000	4.500	0.140	0.225	-344	3.890	+.000 / -.004	0.249	+.000 / -.002	32.18
PS2473-76	4.750	+.004 / -.000	4.750	0.140	0.225	-346	4.140	+.000 / -.004	0.249	+.000 / -.002	32.39
PS2473-80	5.000	+.004 / -.000	5.000	0.140	0.225	-348	4.390	+.000 / -.004	0.249	+.000 / -.002	32.87
PS2473-88	5.500	+.004 / -.000	5.500	0.140	0.225	-352	4.890	+.000 / -.004	0.249	+.000 / -.005	37.39
PS2474-88	5.500	+.004 / -.000	5.500	0.195	0.290	-426	4.670	+.000 / -.010	0.322	+.000 / -.005	43.23
PS2473-96	6.000	+.004 / -.000	6.000	0.140	0.225	-355	5.390	+.000 / -.010	0.249	+.000 / -.005	39.72
PS2474-96	6.000	+.004 / -.000	6.000	0.195	0.290	-430	5.170	+.000 / -.010	0.322	+.000 / -.005	49.48
PS2474-104	6.500	+.004 / -.000	6.500	0.195	0.290	-434	5.670	+.000 / -.010	0.322	+.000 / -.005	50.74
PS2474-112	7.000	+.005 / -.000	7.000	0.195	0.290	-437	6.170	+.000 / -.010	0.322	+.000 / -.005	52.99

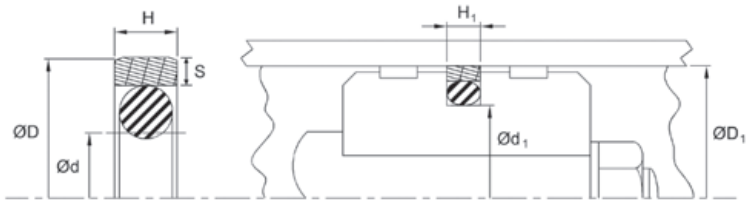
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PS2470 SERIES - BR.PTFE/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol	
PS2474-120	7.500	+.005 / -.000	7.500	0.195	0.290	-439	6.670	+.000 / -.010	0.322	+.000 / -.005	57.53
PS2474-128	8.000	+.005 / -.000	8.000	0.195	0.290	-441	7.170	+.000 / -.010	0.322	+.000 / -.005	60.21
PS2474-136*	8.500	+.005 / -.000	8.500	0.195	0.290	-443	7.670	+.000 / -.010	0.322	+.000 / -.005	63.51
PS2474-144*	9.000	+.005 / -.000	9.000	0.195	0.290	-445	8.170	+.000 / -.010	0.322	+.000 / -.005	66.31
PS2474-152*	9.500	+.005 / -.000	9.500	0.195	0.290	-446	8.670	+.000 / -.010	0.322	+.000 / -.005	71.35
PS2474-160	10.000	+.005 / -.000	10.000	0.195	0.290	-447	9.170	+.000 / -.010	0.322	+.000 / -.005	101.15

P2B - Piston Seals

BR.PTFE/Nitrile



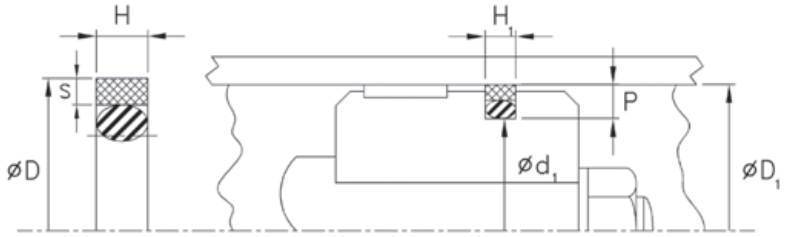
Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 Bar]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol	
P2B-01500/281*	1.500	+.003 / -.000	1.500	0.122	0.275	-318		+.000 / -.010		+.003 / -.000	25.24
P2B-02500/250	2.500	+.003 / -.000	2.500	0.092	0.245	-325	1.951	+.000 / -.010	0.255	+.003 / -.000	29.22
P2B-02750/281	2.750	+.003 / -.000	2.750	0.090	0.275	-331		+.000 / -.010		+.003 / -.000	30.74
P2B-03500/375	3.500	+.003 / -.000	3.500	0.145	0.370	-411	2.715	+.000 / -.010	0.380	+.003 / -.000	32.21
P2B-04000/375*	4.000	+.004 / -.000	4.000	0.145	0.370	-414	3.238	+.000 / -.010	0.379	+.003 / -.000	35.81
P2B-04500/312	4.500	+.004 / -.000	4.500	0.090	0.310	-345	3.951	+.000 / -.010	0.320	+.003 / -.000	36.67
P2B-04500/375	4.500	+.004 / -.000	4.500	0.142	0.370	-419	3.738	+.000 / -.010	0.379	+.003 / -.000	41.70
P2B-05000/375*	5.000	+.004 / -.000	5.000	0.142	0.365	-4177	4.239	+.000 / -.010	0.370	+.003 / -.000	34.95
P2B-06000/312	6.000	+.004 / -.000	6.000	0.184	0.302	-429	5.195	+.000 / -.010	0.313	+.003 / -.000	51.08

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

C914 - Piston Seals

Nylon/Nitrile (Step Cut)



Temperature: -40/250F [-40/121C] **Pressure: 5000 PSI [345 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	S	H	d1	Tol.	H1	Tol.	
C91402000281NS	2.000	+.003 / -.000	2.000		0.105	0.281	1.462	+.000 / -.005	0.282	+.005 / -.000	46.37
C9140200031 2OS	2.000	+.003 / -.000	2.000		0.125	0.312	1.408	+.000 / -.005	0.312	+.005 / -.000	47.84
C91402250281NS*	2.250	+.003 / -.000	2.250		0.105	0.281	1.712	+.000 / -.005	0.282	+.005 / -.000	0/R
C91402500281NS	2.500	+.003 / -.000	2.500		0.105	0.281	1.962	+.000 / -.005	0.282	+.005 / -.000	48.55
C9140250031 2OS	2.500	+.003 / -.000	2.500		0.125	0.312	1.908	+.000 / -.005	0.312	+.005 / -.000	56.28
C91402750281NS	2.750	+.003 / -.000	2.750		0.125	0.281	2.212	+.000 / -.005	0.282	+.005 / -.000	49.78
C91403000281NS	3.000	+.004 / -.000	3.000		0.125	0.281	2.442	+.000 / -.005	0.282	+.005 / -.000	58.30
C9140300031 2OS	3.000	+.004 / -.000	3.000		0.125	0.312	2.408	+.000 / -.005	0.312	+.005 / -.000	56.95
C91403250281NS	3.250	+.004 / -.000	3.250		0.125	0.281	2.692	+.000 / -.005	0.281	+.005 / -.000	63.33
C91403500281NS	3.500	+.004 / -.000	3.500		0.125	0.281	2.942	+.000 / -.005	0.282	+.005 / -.000	67.42
C9140350031 2OS	3.500	+.004 / -.000	3.500		0.125	0.312	2.908	+.000 / -.005	0.312	+.005 / -.000	69.24
C91403525281NS	3.525	+.004 / -.000	3.525		0.138	0.281	2.942	+.000 / -.005	0.281	+.005 / -.000	71.10
C91403750281NS*	3.750	+.004 / -.000	3.750		0.125	0.281	3.192	+.000 / -.005	0.282	+.005 / -.000	70.05
C91404000281NS	4.000	+.004 / -.000	4.000		0.125	0.281	3.442	+.000 / -.005	0.282	+.005 / -.000	68.87
C91404025281	4.025	+.004 / -.000	4.025		0.125	0.281	3.442	+.000 / -.005	0.282	+.005 / -.000	68.87
C9140400031 2OS	4.000	+.004 / -.000	4.000		0.125	0.312	3.408	+.000 / -.005	0.312	+.005 / -.000	72.43
C91404500281NS	4.500	+.004 / -.000	4.500		0.125	0.281	3.942	+.000 / -.005	0.282	+.005 / -.000	78.14
C9140450031 2OS	4.500	+.004 / -.000	4.500		0.125	0.312	3.908	+.000 / -.005	0.312	+.005 / -.000	77.33
C91404750281NS*	4.750	+.004 / -.000	4.750		0.125	0.281	4.192	+.000 / -.005	0.282	+.005 / -.000	76.03
C91405000281NS	5.000	+.004 / -.000	5.000		0.125	0.281	4.442	+.000 / -.005	0.282	+.005 / -.000	76.32
C9140500037 5OS	5.000	+.004 / -.000	5.000		0.125	0.375	4.240	+.000 / -.005	0.377	+.005 / -.000	90.98
C91405025281NS	5.025	+.004 / -.000	5.025		0.125	0.281	4.467	+.000 / -.005	0.282	+.005 / -.000	76.32
C91405025375SP*	5.025	+.004 / -.000	5.025		0.125	0.375	4.240	+.000 / -.005	0.377	+.005 / -.000	90.98
C91405250375	5.250	+.004 / -.000	5.250		0.125	0.375	4.490	+.000 / -.005	0.377	+.005 / -.000	90.98
C91405500375	5.500	+.004 / -.000	5.500		0.125	0.375	4.740	+.000 / -.005	0.377	+.005 / -.000	90.98
C91406000375	6.000	+.004 / -.000	6.000		0.125	0.375	5.240	+.000 / -.005	0.377	+.005 / -.000	96.51
C91406250375*	6.250	+.004 / -.000	6.250		0.125	0.375	5.490	+.000 / -.005	0.377	+.005 / -.000	96.99
C91406500375	6.500	+.004 / -.000	6.500		0.125	0.375	5.740	+.000 / -.005	0.377	+.005 / -.000	97.25
C91407000375	7.000	+.005 / -.000	7.000		0.125	0.375	6.240	+.000 / -.005	0.377	+.005 / -.000	97.70
C91407500375	7.500	+.005 / -.000	7.500		0.125	0.375	6.740	+.000 / -.005	0.377	+.005 / -.000	99.65
C91408000375	8.000	+.005 / -.000	8.000		0.125	0.375	7.240	+.000 / -.005	0.377	+.005 / -.000	100.69
C91408500375NS	8.500	+.005 / -.000	8.500		0.125	0.375	7.740	+.000 / -.005	0.377	+.005 / -.000	101.91
C9140850037 5OS	8.500	+.005 / -.000	8.500		0.187	0.375	7.624	+.000 / -.005	0.377	+.005 / -.000	103.63
C91409000375	9.000	+.005 / -.000	9.000		0.187	0.375	8.124	+.000 / -.005	0.377	+.005 / -.000	179.63
C91409000750*	9.000	+.005 / -.000	9.000		0.187	0.750	7.908	+.000 / -.005	0.749	+.005 / -.000	213.35
C91409500375	9.500	+.005 / -.000	9.500		0.187	0.375	8.624	+.000 / -.005	0.377	+.005 / -.000	195.71
C91410000375	10.000	+.005 / -.000	10.000		0.187	0.375	9.124	+.000 / -.005	0.377	+.005 / -.000	224.79

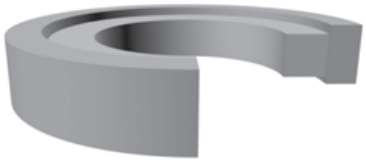
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

C914 SERIES - NYLON/NBR

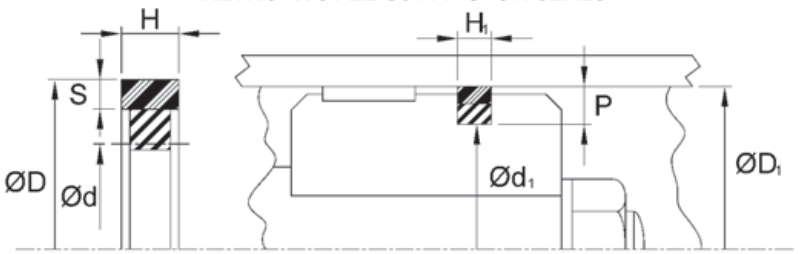
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	S	H	d1	Tol.	H1	Tol.	
C91410000750*	10.000	+.005 / -.000	10.000		0.187	0.750	8.835	+.000 / -.005	0.749	+.005 / -.000	248.91
C91410500375*	10.500	+.005 / -.000	10.500		0.187	0.375	9.624	+.000 / -.005	0.377	+.005 / -.000	237.10
C91411000375	11.000	+.006 / -.000	11.000		0.187	0.375	10.124	+.000 / -.005	0.377	+.005 / -.000	248.95
C91411750375	11.750	+.006 / -.000	11.750		0.187	0.375	10.874	+.000 / -.005	0.377	+.005 / -.000	253.92
C91412000375	12.000	+.006 / -.000	12.000		0.187	0.375	11.124	+.000 / -.005	0.377	+.005 / -.000	257.04

ZG - Piston Seals

Nylon/Nitrile (Step Cut)



RETROFITS ALL C914 PISTON SEALS



Temperature: -40/230F [-40/110C] **Pressure: 7500 PSI [690 BAR]**

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	17.19
ZG02000-312	2.000	+.003 / -.000	2.000		0.125	0.312	1.406	+.000 / -.005	0.312	+.005 / -.000	29.78
ZG02250-281	2.250	+.003 / -.000	2.250		0.105	0.281	1.712	+.000 / -.005	0.282	+.005 / -.000	21.12
ZG02500-281	2.500	+.003 / -.000	2.500		0.105	0.281	1.960	+.000 / -.005	0.282	+.005 / -.000	20.64
ZG02500-312*	2.500	+.003 / -.000	2.500		0.125	0.312	1.906	+.000 / -.005	0.312	+.005 / -.000	20.62
ZG03000-281	3.000	+.004 / -.000	3.000		0.125	0.281	2.440	+.000 / -.005	0.282	+.005 / -.000	21.73
ZG03000-312	3.000	+.004 / -.000	3.000		0.125	0.312	2.406	+.000 / -.005	0.312	+.005 / -.000	21.74
ZG03500-281	3.500	+.004 / -.000	3.500		0.125	0.281	2.940	+.000 / -.005	0.282	+.005 / -.000	21.58
ZG03500-312	3.500	+.004 / -.000	3.500		0.125	0.312	2.906	+.000 / -.005	0.312	+.005 / -.000	23.81
ZG04000-281	4.000	+.004 / -.000	4.000		0.125	0.281	3.440	+.000 / -.005	0.282	+.005 / -.000	23.16
ZG04000-312	4.000	+.004 / -.000	4.000		0.125	0.312	3.406	+.000 / -.005	0.312	+.005 / -.000	25.22
ZG04250-281*	4.250	+.004 / -.000	4.250		0.125	0.281	3.692	+.000 / -.005	0.282	+.005 / -.000	27.45
ZG04500-281	4.500	+.004 / -.000	4.500		0.125	0.281	3.940	+.000 / -.005	0.282	+.005 / -.000	24.58
ZG04500-312	4.500	+.004 / -.000	4.500		0.125	0.312	3.906	+.000 / -.005	0.312	+.005 / -.000	31.47
ZG05000-281	5.000	+.004 / -.000	5.000		0.125	0.281	4.440	+.000 / -.005	0.282	+.005 / -.000	33.38
ZG05000-375	5.000	+.004 / -.000	5.000		0.125	0.375	4.238	+.000 / -.005	0.377	+.005 / -.000	33.38
ZG05500-375	5.500	+.004 / -.000	5.500		0.125	0.375	4.738	+.000 / -.005	0.377	+.005 / -.000	36.25
ZG06000-375	6.000	+.004 / -.000	6.000		0.125	0.375	5.238	+.000 / -.005	0.377	+.005 / -.000	30.89
ZG06500-375	6.500	+.004 / -.000	6.500		0.125	0.375	5.738	+.000 / -.005	0.377	+.005 / -.000	58.33
ZG07000-375*	7.000	+.005 / -.000	7.000		0.125	0.375	6.238	+.000 / -.005	0.377	+.005 / -.000	76.34
ZG07500-375*	7.500	+.005 / -.000	7.500		0.125	0.375	6.738	+.000 / -.005	0.377	+.005 / -.000	90.20
ZG08000-375	8.000	+.005 / -.000	8.000		0.125	0.375	7.238	+.000 / -.005	0.377	+.005 / -.000	91.35
ZG08500-375N*	8.500	+.005 / -.000	8.500		0.125	0.375	7.738	+.000 / -.005	0.377	+.005 / -.000	93.51
ZG08500-375*	8.500	+.005 / -.000	8.500		0.187	0.375	7.622	+.000 / -.005	0.377	+.005 / -.000	95.79
ZG09000-375*	9.000	+.005 / -.000	9.000		0.187	0.375	8.122	+.000 / -.005	0.377	+.005 / -.000	98.97

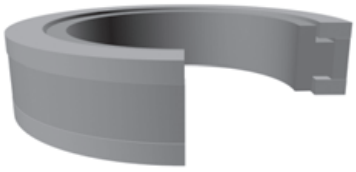
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

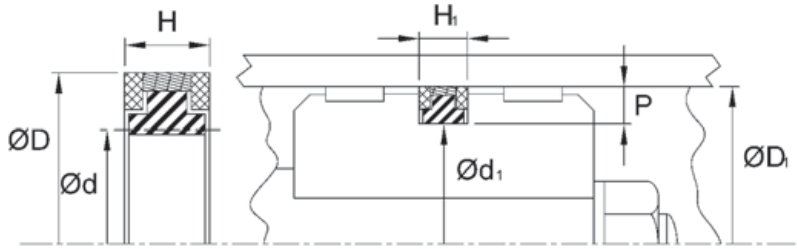
ZG SERIES - NYLON/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	S	H	d1	Tol.	H1	Tol.	
ZG09500-375*	9.500	+.005 / -.000	9.500		0.187	0.375	8.622	+.000 / -.005	0.377	+.005 / -.000	103.51
ZG10000-375	10.000	+.005 / -.000	10.000		0.187	0.375	9.122	+.000 / -.005	0.377	+.005 / -.000	110.80
ZG10500-375*	10.500	+.005 / -.000	10.500		0.187	0.375	9.622	+.000 / -.005	0.377	+.005 / -.000	120.51
ZG11000-375*	11.000	+.006 / -.000	11.000		0.187	0.375	10.122	+.000 / -.005	0.377	+.005 / -.000	131.77
ZG12000-375	12.000	+.006 / -.000	12.000		0.187	0.375	11.122	+.000 / -.005	0.377	+.005 / -.000	143.93
ZG12500-375*	12.500	+.006 / -.000	12.500		0.187	0.375	11.622	+.000 / -.005	0.377	+.005 / -.000	247.34

CTS - Piston Seals

GF/M.PTFE/Nylon/Nitrile
BR.PTFE/Nylon/Nitrile





Temperature: -20/220F [-29/104C] **Pressure: 6500 PSI [450 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	S	H	d1	Tol.	H1	Tol.	
CTS-01000*	1.000	+.003 / -.000					0.625	+.000 / -.002	0.424	+.010 / -.000	O/R
CTS-01250*	1.250	+.003 / -.000					0.875	+.000 / -.002	0.424	+.010 / -.000	O/R
CTS-01500	1.500	+.003 / -.000					1.125	+.000 / -.002	0.424	+.010 / -.000	40.62
CTS-01750	1.750	+.003 / -.000					1.375	+.000 / -.002	0.424	+.010 / -.000	40.54
CTS-02000	2.000	+.003 / -.000					1.625	+.000 / -.002	0.424	+.010 / -.000	43.55
CTS-02001	2.000	+.003 / -.000					1.442	+.000 / -.002	0.295	+.010 / -.000	63.87
CTS-02250	2.250	+.003 / -.000					1.875	+.000 / -.002	0.424	+.010 / -.000	44.67
CTS-02500	2.500	+.003 / -.000					2.125	+.000 / -.002	0.424	+.010 / -.000	45.45
CTS-02501	2.500	+.003 / -.000					1.942	+.000 / -.002	0.295	+.010 / -.000	48.99
CTS-02750	2.750	+.003 / -.000					2.375	+.000 / -.002	0.424	+.010 / -.000	53.05
CTS-03000	3.000	+.004 / -.000					2.520	+.000 / -.003	0.579	+.010 / -.000	58.66
CTS-03000/B*	3.000	+.004 / -.000					2.520	+.000 / -.003	0.579	+.010 / -.000	97.93
CTS-03001	3.000	+.004 / -.000					2.442	+.000 / -.003	0.424	+.010 / -.000	42.17
CTS-03250	3.250	+.004 / -.000					2.770	+.000 / -.003	0.579	+.010 / -.000	60.59
CTS-03251	3.250	+.004 / -.000					2.692	+.000 / -.003	0.424	+.010 / -.000	94.23
CTS-03500	3.500	+.004 / -.000					3.020	+.000 / -.003	0.579	+.010 / -.000	60.97
CTS-03500/B	3.500	+.004 / -.000					3.020	+.000 / -.003	0.579	+.010 / -.000	61.01
CTS-03501	3.500	+.004 / -.000					2.942	+.000 / -.003	0.424	+.010 / -.000	66.26
CTS-03750	3.750	+.004 / -.000					3.270	+.000 / -.003	0.579	+.010 / -.000	61.75
CTS-04000	4.000	+.004 / -.000					3.520	+.000 / -.003	0.579	+.010 / -.000	63.55
CTS-04000/B	4.000	+.004 / -.000					3.520	+.000 / -.003	0.579	+.010 / -.000	69.53
CTS-04001	4.000	+.004 / -.000					3.442	+.000 / -.003	0.424	+.010 / -.000	55.52
CTS-04250	4.250	+.004 / -.000					3.770	+.000 / -.003	0.579	+.010 / -.000	66.41
CTS-04500	4.500	+.004 / -.000					4.020	+.000 / -.003	0.579	+.010 / -.000	67.86

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

CTS SERIES - GF/M & BR.PTFE/NYLON/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	S	H	d1	Tol.	H1	Tol.	
CTS-04501	4.500	+.004 / -.000					3.942	+.000 / -.003	0.424	+.010 / -.000	79.89
CTS-04750	4.750	+.004 / -.000					4.270	+.000 / -.003	0.579	+.010 / -.000	91.16
CTS-05000	5.000	+.004 / -.000					4.270	+.000 / -.004	0.750	+.010 / -.000	85.33
CTS-05000/B	5.000	+.004 / -.000					4.270	+.000 / -.004	0.750	+.010 / -.000	91.88
CTS-05001	5.000	+.004 / -.000					4.444	+.000 / -.004	0.420	+.010 / -.000	104.11
CTS-05250	5.250	+.004 / -.000					4.520	+.000 / -.004	0.750	+.010 / -.000	89.54
CTS-05500	5.500	+.004 / -.000					4.770	+.000 / -.004	0.750	+.010 / -.000	95.20
CTS-05500/B*	5.500	+.004 / -.000					4.770	+.000 / -.004	0.750	+.010 / -.000	155.62
CTS-05501	5.500	+.004 / -.000					5.022	+.000 / -.004	0.579	+.010 / -.000	89.05
CTS-05501/B	5.500	+.004 / -.000					5.022	+.000 / -.004	0.579	+.010 / -.000	92.44
CTS-05750	5.750	+.004 / -.000					5.022	+.000 / -.004	0.750	+.010 / -.000	91.30
CTS-06000	6.000	+.004 / -.000					5.270	+.000 / -.004	0.750	+.010 / -.000	97.87
CTS-06000/B	6.000	+.004 / -.000					5.270	+.000 / -.004	0.750	+.010 / -.000	100.43
CTS-06001	6.000	+.004 / -.000					5.522	+.000 / -.004	0.579	+.010 / -.000	118.14
CTS-06250	6.250	+.004 / -.000					5.520	+.000 / -.004	0.750	+.010 / -.000	99.80
CTS-06500	6.500	+.004 / -.000					5.770	+.000 / -.004	0.750	+.010 / -.000	99.13
CTS-06501 *	6.500	+.005 / -.000					6.022	+.000 / -.004	0.579	+.010 / -.000	107.62
CTS-06501/B	6.500	+.005 / -.000					6.022	+.000 / -.004	0.579	+.010 / -.000	112.87
CTS-06750*	6.750	+.005 / -.000					6.022	+.000 / -.004	0.750	+.010 / -.000	114.02
CTS-07000	7.000	+.005 / -.000					6.270	+.000 / -.004	0.750	+.010 / -.000	127.23
CTS-07250	7.250	+.005 / -.000					6.520	+.000 / -.004	0.750	+.010 / -.000	129.09
CTS-07500	7.500	+.005 / -.000					6.770	+.000 / -.004	0.750	+.010 / -.000	114.18
CTS-07500/B	7.500	+.005 / -.000					6.770	+.000 / -.004	0.750	+.010 / -.000	137.55
CTS-07510/B	7.510	+.005 / -.000					6.770	+.000 / -.004	0.750	+.010 / -.000	235.07
CTS-07520/B	7.520	+.005 / -.000					6.770	+.000 / -.004	0.750	+.010 / -.000	235.07
CTS-07530/B	7.530	+.005 / -.000					6.770	+.000 / -.004	0.750	+.010 / -.000	235.07
CTS-07750	7.750	+.005 / -.000					7.022	+.000 / -.004	0.750	+.010 / -.000	125.05
CTS-08000	8.000	+.005 / -.000					7.270	+.000 / -.004	0.750	+.010 / -.000	144.70
CTS-08000/B	8.000	+.005 / -.000					7.270	+.000 / -.004	0.750	+.010 / -.000	150.74
CTS-08250	8.250	+.005 / -.000					7.520	+.000 / -.004	0.750	+.010 / -.000	143.54
CTS-08500	8.500	+.005 / -.000					7.770	+.000 / -.004	0.750	+.010 / -.000	144.92
CTS-08750*	8.750	+.005 / -.000					8.022	+.000 / -.004	0.750	+.010 / -.000	150.74
CTS-09000	9.000	+.005 / -.000					8.270	+.000 / -.004	0.750	+.010 / -.000	158.11
CTS-09000/B	9.000	+.005 / -.000					8.270	+.000 / -.004	0.750	+.010 / -.000	169.67
CTS-09500/B	9.500	+.005 / -.000					8.770	+.000 / -.004	0.750	+.010 / -.000	201.07
CTS-10000	10.000	+.005 / -.000					9.270	+.000 / -.004	0.750	+.010 / -.000	198.09
CTS-10000/B	10.000	+.005 / -.000					9.270	+.000 / -.004	0.750	+.010 / -.000	205.62
CTS-11000	11.000	+.006 / -.000					10.270	+.000 / -.004	0.750	+.010 / -.000	226.14
CTS-11000/B	11.000	+.006 / -.000					10.270	+.000 / -.004	0.750	+.010 / -.000	248.76
CTS-11500/B*	11.500	+.006 / -.000					10.770	+.000 / -.004	0.750	+.010 / -.000	283.31
CTS-12000	12.000	+.006 / -.000					11.270	+.000 / -.004	0.750	+.010 / -.000	246.21
CTS-12500/B	12.500	+.006 / -.000					11.770	+.000 / -.004	0.750	+.010 / -.000	290.19
CTS-12510/B	12.510	+.006 / -.000					11.770	+.000 / -.004	0.750	+.010 / -.000	646.90
CTS-12520/B	12.520	+.006 / -.000					11.770	+.000 / -.004	0.750	+.010 / -.000	646.90
CTS-12530/B	12.530	+.006 / -.000					11.770	+.000 / -.004	0.750	+.010 / -.000	646.90
CTS-13000	13.000	+.006 / -.000					12.270	+.000 / -.004	0.750	+.010 / -.000	347.89
CTS-13000/B	13.000	+.006 / -.000					12.270	+.000 / -.004	0.750	+.010 / -.000	386.85
CTS-13500/B	13.500	+.006 / -.000					12.770	+.000 / -.004	0.750	+.010 / -.000	417.05

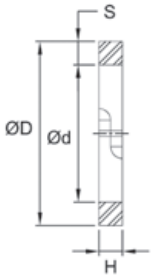
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

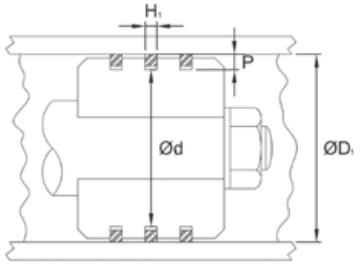
CTS SERIES - GF/M & BR.PTFE/NYLON/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	S	H	d1	Tol.	H1	Tol.	
CTS-14000	14.000	+.006 / -.000					13.270	+.000 / -.004	0.750	+.010 / -.000	434.27
CTS-14500/B	14.500	+.006 / -.000					13.770	+.000 / -.004	0.750	+.010 / -.000	518.83
CTS-14510/B*	14.510	+.006 / -.000					13.770	+.000 / -.004	0.750	+.010 / -.000	809.32
CTS-14520/B	14.520	+.006 / -.000					13.770	+.000 / -.004	0.750	+.010 / -.000	809.32
CTS-14530/B	14.530	+.006 / -.000					13.770	+.000 / -.004	0.750	+.010 / -.000	809.32
CTS-15000	15.000	+.006 / -.000					14.270	+.000 / -.004	0.750	+.010 / -.000	778.36
CTS-15000/B	15.000	+.006 / -.000					14.270	+.000 / -.004	0.750	+.010 / -.000	765.49
CTS-15010/B	15.010	+.006 / -.000					14.270	+.000 / -.004	0.750	+.010 / -.000	1118.50
CTS-15020/B	15.020	+.006 / -.000					14.270	+.000 / -.004	0.750	+.010 / -.000	1118.50
CTS-15030/B	15.030	+.006 / -.000					14.270	+.000 / -.004	0.750	+.010 / -.000	1118.50
CTS-16000/B	16.000	+.006 / -.000					15.270	+.000 / -.004	0.750	+.010 / -.000	817.14

P1000 - Piston Rings

Cast Iron





Temperature: **Pressure:**

Nominal Bore Diameter	Depth P +.003/-.000	Nominal Bore Diameter	Depth P +.003/-.000	Nominal Bore Diameter	Depth P +.003/-.000	Nominal Bore Diameter	Depth P +.003/-.000	Nominal Piston Ring Width	Width H1 +.003/-.000
1.000	0.065	3.000	0.160	6.000	0.256	10.500	0.405	1/8	0.125
1.125	0.070	3.125	0.165	6.250	0.258	11.000	0.420	3/16	0.188
1.250	0.075	3.250	0.168	6.500	0.276	11.500	0.436	1/4	0.250
1.375	0.085	3.375	0.171	6.750	0.284	12.000	0.446	5/16	0.313
1.500	0.107	3.500	0.176	7.000	0.293	12.500	0.457	3/8	0.375
1.625	0.116	3.625	0.179	7.250	0.302	13.000	0.470	1/2	0.500
1.750	0.120	3.750	0.185	7.500	0.309	13.500	0.480	5/8	0.625
1.875	0.125	3.875	0.193	7.750	0.307	14.000	0.500	3/4	0.750
2.000	0.125	4.000	0.194	8.000	0.325	14.500	0.520	7/8	0.875
2.125	0.130	4.250	0.203	8.250	0.333	15.000	0.537	1	1.000
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		

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	$
P1001	1.500	+.003 / -.000	0.052 - 0.067	0.123 - 0.124	6.92
P1001-03	1.500	+.003 / -.000	0.052 - 0.067	0.093 - 0.094	22.43
P1001-06	1.500	+.003 / -.000	0.052 - 0.067	0.186 - 0.187	16.50
P1002	1.625	+.003 / -.000	0.056 - 0.071	0.123 - 0.124	22.64
P1002-03	1.625	+.003 / -.000	0.056 - 0.071	0.093 - 0.094	10.15
P1002-06	1.625	+.003 / -.000	0.056 - 0.071	0.186 - 0.187	10.15
P1003	1.750	+.003 / -.000	0.060 - 0.075	0.123 - 0.124	9.79
P1003-03*	1.750	+.003 / -.000	0.060 - 0.075	0.093 - 0.094	9.79
P1003-06*	1.750	+.003 / -.000	0.060 - 0.075	0.186 - 0.187	10.15
P1004	1.875	+.003 / -.000	0.060 - 0.075	0.123 - 0.124	15.19
P1004-03*	1.875	+.003 / -.000	0.060 - 0.075	0.093 - 0.094	13.00
P1004-06*	1.875	+.003 / -.000	0.060 - 0.075	0.186 - 0.187	10.15
P1005	2.000	+.003 / -.000	0.060 - 0.075	0.123 - 0.124	10.47
P1005-03	2.000	+.003 / -.000	0.060 - 0.075	0.093 - 0.094	12.20
P1005-06	2.000	+.003 / -.000	0.060 - 0.075	0.186 - 0.187	10.14
P1006	2.125	+.003 / -.000	0.065 - 0.080	0.186 - 0.187	11.97
P1006-03*	2.125	+.003 / -.000	0.065 - 0.080	0.093 - 0.094	10.59
P1006-04	2.125	+.003 / -.000	0.065 - 0.080	0.123 - 0.124	12.32
P1006-08*	2.125	+.003 / -.000	0.065 - 0.080	0.248 - 0.249	10.80
P1007	2.250	+.003 / -.000	0.070 - 0.085	0.186 - 0.187	12.32
P1007-03*	2.250	+.003 / -.000	0.070 - 0.085	0.093 - 0.094	10.80
P1007-04	2.250	+.003 / -.000	0.070 - 0.085	0.123 - 0.124	11.94
P1007-08*	2.250	+.003 / -.000	0.070 - 0.085	0.248 - 0.249	13.25
P1008	2.375	+.003 / -.000	0.076 - 0.091	0.186 - 0.187	13.25
P1008-03*	2.375	+.003 / -.000	0.076 - 0.091	0.093 - 0.094	10.80
P1008-04	2.375	+.003 / -.000	0.076 - 0.091	0.123 - 0.124	10.80
P1008-08*	2.375	+.003 / -.000	0.076 - 0.091	0.248 - 0.249	10.80
P1009	2.500	+.003 / -.000	0.082 - 0.097	0.186 - 0.187	9.83
P1009-03	2.500	+.003 / -.000	0.082 - 0.097	0.093 - 0.094	10.80
P1009-04	2.500	+.003 / -.000	0.082 - 0.097	0.123 - 0.124	9.83
P1009-08	2.500	+.003 / -.000	0.082 - 0.097	0.248 - 0.249	10.22
P1010*	2.625	+.003 / -.000	0.087 - 0.102	0.186 - 0.187	12.13
P1010-03*	2.625	+.003 / -.000	0.087 - 0.102	0.093 - 0.094	12.13
P1010-04	2.625	+.003 / -.000	0.087 - 0.102	0.123 - 0.124	12.13
P1010-08*	2.625	+.003 / -.000	0.087 - 0.102	0.248 - 0.249	12.13
P1011	2.750	+.003 / -.000	0.091 - 0.106	0.186 - 0.187	12.20
P1011-03	2.750	+.003 / -.000	0.091 - 0.106	0.093 - 0.094	12.20
P1011-04	2.750	+.003 / -.000	0.091 - 0.106	0.123 - 0.124	12.20
P1011-08	2.750	+.003 / -.000	0.091 - 0.106	0.248 - 0.249	12.20
P1012*	2.875	+.003 / -.000	0.093 - 0.108	0.186 - 0.187	10.36
P1012-04	2.875	+.003 / -.000	0.093 - 0.108	0.123 - 0.124	11.05
P1012-08*	2.875	+.003 / -.000	0.093 - 0.108	0.248 - 0.249	11.05
P1013	3.000	+.004 / -.000	0.095 - 0.110	0.186 - 0.187	10.23
P1013-04	3.000	+.004 / -.000	0.095 - 0.110	0.123 - 0.124	11.05
P1013-08	3.000	+.004 / -.000	0.095 - 0.110	0.248 - 0.249	10.62
P1013-10	3.000	+.004 / -.000	0.095 - 0.110	0.310 - 0.311	10.68
P1014*	3.125	+.004 / -.000	0.100 - 0.115	0.186 - 0.187	12.58
P1014-04	3.125	+.004 / -.000	0.100 - 0.115	0.123 - 0.124	12.58

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	H	$
P1014-08*	3.125	+.004 / -.000	0.100 - 0.115	0.248 - 0.249	12.58
P1014-10*	3.125	+.004 / -.000	0.100 - 0.115	0.310 - 0.311	12.58
P1015	3.250	+.004 / -.000	0.103 - 0.118	0.186 - 0.187	10.23
P1015-04	3.250	+.004 / -.000	0.103 - 0.118	0.123 - 0.124	10.23
P1015-08	3.250	+.004 / -.000	0.103 - 0.118	0.248 - 0.249	10.36
P1015-10*	3.250	+.004 / -.000	0.103 - 0.118	0.310 - 0.311	11.97
P1016	3.375	+.004 / -.000	0.106 - 0.121	0.186 - 0.187	16.85
P1016-04*	3.375	+.004 / -.000	0.106 - 0.121	0.123 - 0.124	16.85
P1016-08*	3.375	+.004 / -.000	0.106 - 0.121	0.248 - 0.249	16.85
P1016-10*	3.375	+.004 / -.000	0.106 - 0.121	0.310 - 0.311	16.85
P1017	3.500	+.004 / -.000	0.109 -0.124	0.186 - 0.187	10.76
P1017-04	3.500	+.004 / -.000	0.109 -0.124	0.123 - 0.124	10.76
P1017-08	3.500	+.004 / -.000	0.109 -0.124	0.248 - 0.249	10.76
P1017-10	3.500	+.004 / -.000	0.109 -0.124	0.310 - 0.311	28.19
P1018	3.625	+.004 / -.000	0.112 - 0.127	0.186 - 0.187	11.97
P1018-04*	3.625	+.004 / -.000	0.112 - 0.127	0.123 - 0.124	11.97
P1018-08*	3.625	+.004 / -.000	0.112 - 0.127	0.248 - 0.249	11.97
P1018-10*	3.625	+.004 / -.000	0.112 - 0.127	0.310 - 0.311	12.34
P1019	3.750	+.004 / -.000	0.115 - 0.130	0.248 - 0.249	11.07
P1019-04*	3.750	+.004 / -.000	0.115 - 0.130	0.123 - 0.124	12.34
P1019-06*	3.750	+.004 / -.000	0.115 - 0.130	0.186 - 0.187	11.07
P1019-10*	3.750	+.004 / -.000	0.115 - 0.130	0.310 - 0.311	12.34
P1020	3.875	+.004 / -.000	0.123 - 0.138	0.248 - 0.249	11.18
P1020-04	3.875	+.004 / -.000	0.123 - 0.138	0.123 - 0.124	43.57
P1020-06*	3.875	+.004 / -.000	0.123 - 0.138	0.186 - 0.187	25.67
P1020-10*	3.875	+.004 / -.000	0.123 - 0.138	0.310 - 0.311	12.34
P1021	4.000	+.004 / -.000	0.127 - 0.142	0.248 - 0.249	11.18
P1021-04	4.000	+.004 / -.000	0.127 - 0.142	0.123 - 0.124	21.04
P1021-06	4.000	+.004 / -.000	0.127 - 0.142	0.186 - 0.187	10.77
P1021-10	4.000	+.004 / -.000	0.127 - 0.142	0.310 - 0.311	11.18
P1022	4.250	+.004 / -.000	0.135 - 0.150	0.248 - 0.249	12.34
P1022-04*	4.250	+.004 / -.000	0.135 - 0.150	0.123 - 0.124	12.34
P1022-06*	4.250	+.004 / -.000	0.135 - 0.150	0.186 - 0.187	12.34
P1022-10	4.250	+.004 / -.000	0.135 - 0.150	0.310 - 0.311	13.60
P1023*	4.500	+.004 / -.000	0.145 - 0.160	0.248 - 0.249	12.20
P1023-04	4.500	+.004 / -.000	0.145 - 0.160	0.123 - 0.124	13.60
P1023-06	4.500	+.004 / -.000	0.145 - 0.160	0.186 - 0.187	11.82
P1023-10*	4.500	+.004 / -.000	0.145 - 0.160	0.310 - 0.311	12.05
P1023-12	4.500	+.004 / -.000	0.145 - 0.160	0.372 - 0.373	20.15
P1023-16	4.500	+.004 / -.000	0.145 - 0.160	0.497 - 0.498	41.04
P1024	4.750	+.004 / -.000	0.152 - 0.167	0.248 - 0.249	12.08
P1024-04*	4.750	+.004 / -.000	0.152 - 0.167	0.123 - 0.124	28.41
P1024-06	4.750	+.004 / -.000	0.152 - 0.167	0.186 - 0.187	13.60
P1024-10*	4.750	+.004 / -.000	0.152 - 0.167	0.310 - 0.311	14.22
P1024-12*	4.750	+.004 / -.000	0.152 - 0.167	0.372 - 0.373	15.59
P1024-16*	4.750	+.004 / -.000	0.152 - 0.167	0.497 - 0.498	22.21
P1025	5.000	+.004 / -.000	0.160 - 0.175	0.248 - 0.249	12.44
P1025-04*	5.000	+.004 / -.000	0.160 - 0.175	0.123 - 0.124	16.23

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

P1000 SERIES - CAST IRON

Ref.Number	Bore Diameter	Tol.	Nominal Seal Dimensions S	Nominal Seal Dimensions H	$
P1025-06	5.000	+.004 / -.000	0.160 - 0.175	0.186 - 0.187	12.44
P1025-10	5.000	+.004 / -.000	0.160 - 0.175	0.310 - 0.311	19.19
P1025-12	5.000	+.004 / -.000	0.160 - 0.175	0.372 - 0.373	16.49
P1025-16	5.000	+.004 / -.000	0.160 - 0.175	0.497 - 0.498	33.80
P1026	5.250	+.004 / -.000	0.166 - 0.181	0.248 - 0.249	19.34
P1026-04*	5.250	+.004 / -.000	0.166 - 0.181	0.123 - 0.124	19.34
P1026-06	5.250	+.004 / -.000	0.166 - 0.181	0.186 - 0.187	19.34
P1026-10	5.250	+.004 / -.000	0.166 - 0.181	0.310 - 0.311	19.34
P1026-12*	5.250	+.004 / -.000	0.166 - 0.181	0.372 - 0.373	19.34
P1026-16*	5.250	+.004 / -.000	0.166 - 0.181	0.497 - 0.498	23.74
P1027	5.500	+.004 / -.000	0.175 - 0.190	0.248 - 0.249	16.81
P1027-04*	5.500	+.004 / -.000	0.175 - 0.190	0.123 - 0.124	17.22
P1027-06	5.500	+.004 / -.000	0.175 - 0.190	0.186 - 0.187	16.81
P1027-10	5.500	+.004 / -.000	0.175 - 0.190	0.310 - 0.311	16.81
P1027-12	5.500	+.004 / -.000	0.175 - 0.190	0.372 - 0.373	22.28
P1027-16*	5.500	+.004 / -.000	0.175 - 0.190	0.497 - 0.498	23.74
P1028	5.750	+.004 / -.000	0.184 - 0.199	0.248 - 0.249	22.63
P1028-04*	5.750	+.004 / -.000	0.184 - 0.199	0.123 - 0.124	21.81
P1028-06*	5.750	+.004 / -.000	0.184 - 0.199	0.186 - 0.187	21.34
P1028-10	5.750	+.004 / -.000	0.184 - 0.199	0.310 - 0.311	24.43
P1028-12*	5.750	+.004 / -.000	0.184 - 0.199	0.372 - 0.373	24.43
P1028-16*	5.750	+.004 / -.000	0.184 - 0.199	0.497 - 0.498	24.43
P1029	6.000	+.004 / -.000	0.191 - 0.206	0.310 - 0.311	16.99
P1029-04*	6.000	+.004 / -.000	0.191 - 0.206	0.123 - 0.124	22.84
P1029-06	6.000	+.004 / -.000	0.191 - 0.206	0.185 - 0.187	21.32
P1029-08	6.000	+.004 / -.000	0.191 - 0.206	0.248 - 0.249	16.99
P1029-12	6.000	+.004 / -.000	0.191 - 0.206	0.372 - 0.373	19.97
P1029-16	6.000	+.004 / -.000	0.191 - 0.206	0.497 - 0.498	27.19
P1030*	6.250	+.004 / -.000	0.202 - 0.217	0.310 - 0.311	29.97
P1030-04*	6.250	+.004 / -.000	0.202 - 0.217	0.123 - 0.124	27.19
P1030-06*	6.250	+.004 / -.000	0.202 - 0.217	0.185 - 0.187	26.63
P1030-08	6.250	+.004 / -.000	0.202 - 0.217	0.248 - 0.249	29.97
P1030-12*	6.250	+.004 / -.000	0.202 - 0.217	0.372 - 0.373	27.19
P1030-16*	6.250	+.004 / -.000	0.202 - 0.217	0.497 - 0.498	27.19
P1031	6.500	+.004 / -.000	0.211 - 0.226	0.310 - 0.311	19.44
P1031-04*	6.500	+.004 / -.000	0.211 - 0.226	0.123 - 0.124	37.89
P1031-06*	6.500	+.004 / -.000	0.211 - 0.226	0.185 - 0.187	39.25
P1031-08	6.500	+.004 / -.000	0.211 - 0.226	0.248 - 0.249	19.44
P1031-12	6.500	+.004 / -.000	0.211 - 0.226	0.372 - 0.373	37.89
P1031-16	6.500	+.004 / -.000	0.211 - 0.226	0.497 - 0.498	61.04
P1032*	6.750	+.005 / -.000	0.219 - 0.234	0.310 - 0.311	29.15
P1032-04*	6.750	+.005 / -.000	0.219 - 0.234	0.123 - 0.124	29.15
P1032-06*	6.750	+.005 / -.000	0.219 - 0.234	0.185 - 0.187	29.15
P1032-08	6.750	+.005 / -.000	0.219 - 0.234	0.248 - 0.249	30.44
P1032-12	6.750	+.005 / -.000	0.219 - 0.234	0.372 - 0.373	30.44
P1032-16*	6.750	+.005 / -.000	0.219 - 0.234	0.497 - 0.498	30.44
P1033	7.000	+.005 / -.000	0.228 - 0.243	0.310 - 0.311	30.62
P1033-04*	7.000	+.005 / -.000	0.228 - 0.243	0.123 - 0.124	30.62
P1033-06	7.000	+.005 / -.000	0.228 - 0.243	0.185 - 0.187	30.62
P1033-08	7.000	+.005 / -.000	0.228 - 0.243	0.248 - 0.249	22.38
P1033-12	7.000	+.005 / -.000	0.228 - 0.243	0.372 - 0.373	30.62
P1033-16	7.000	+.005 / -.000	0.228 - 0.243	0.497 - 0.498	48.32
P1033-16SP	7.000	+.005 / -.000	0.184 - 0.199	0.497 - 0.498	55.57
P1034	7.250	+.005 / -.000	0.237 - 0.252	0.310 - 0.311	34.05
P1034-04*	7.250	+.005 / -.000	0.237 - 0.252	0.123 - 0.124	34.05
P1034-06*	7.250	+.005 / -.000	0.237 - 0.252	0.185 - 0.187	34.05
P1034-08	7.250	+.005 / -.000	0.237 - 0.252	0.248 - 0.249	34.05
P1034-12*	7.250	+.005 / -.000	0.237 - 0.252	0.372 - 0.373	34.05
P1034-16*	7.250	+.005 / -.000	0.237 - 0.252	0.497 - 0.498	34.05
P1035	7.500	+.005 / -.000	0.244 - 0.259	0.310 - 0.311	33.65
P1035-04*	7.500	+.005 / -.000	0.244 - 0.259	0.123 - 0.124	33.65
P1035-06*	7.500	+.005 / -.000	0.244 - 0.259	0.185 - 0.187	33.65
P1035-08	7.500	+.005 / -.000	0.244 - 0.259	0.248 - 0.249	28.76
P1035-12*	7.500	+.005 / -.000	0.244 - 0.259	0.372 - 0.373	32.47
P1035-16*	7.500	+.005 / -.000	0.244 - 0.259	0.497 - 0.498	32.47
P1036	7.750	+.005 / -.000	0.252 - 0.267	0.310 - 0.311	41.51
P1036-04*	7.750	+.005 / -.000	0.252 - 0.267	0.123 - 0.124	40.07
P1036-06*	7.750	+.005 / -.000	0.252 - 0.267	0.185 - 0.187	40.07
P1036-08*	7.750	+.005 / -.000	0.252 - 0.267	0.248 - 0.249	40.07
P1036-12*	7.750	+.005 / -.000	0.252 - 0.267	0.372 - 0.373	40.07
P1036-16*	7.750	+.005 / -.000	0.252 - 0.267	0.497 - 0.498	40.07
P1037	8.000	+.005 / -.000	0.260 - 0.275	0.372 - 0.373	34.05
P1037-04*	8.000	+.005 / -.000	0.260 - 0.275	0.123 - 0.124	34.05
P1037-06*	8.000	+.005 / -.000	0.260 - 0.275	0.185 - 0.187	34.05
P1037-08	8.000	+.005 / -.000	0.260 - 0.275	0.248 - 0.249	34.05
P1037-10	8.000	+.005 / -.000	0.260 - 0.275	0.310 - 0.311	34.05
P1037-16	8.000	+.005 / -.000	0.260 - 0.275	0.497 - 0.498	43.51
P1038*	8.250	+.005 / -.000	0.268 - 0.283	0.372 - 0.373	46.97
P1038-06	8.250	+.005 / -.000	0.268 - 0.283	0.185 - 0.187	46.97
P1038-08	8.250	+.005 / -.000	0.268 - 0.283	0.248 - 0.249	46.97
P1038-10*	8.250	+.005 / -.000	0.268 - 0.283	0.310 - 0.311	46.97
P1038-14	8.250	+.005 / -.000	0.400 - 0.430	0.248 - 0.249	53.64
P1038-16	8.250	+.005 / -.000	0.268 - 0.283	0.497 - 0.498	53.64
P1039*	8.500	+.005 / -.000	0.275 - 0.290	0.372 - 0.373	55.85
P1039-06*	8.500	+.005 / -.000	0.275 - 0.290	0.185 - 0.187	55.85
P1039-08*	8.500	+.005 / -.000	0.275 - 0.290	0.248 - 0.249	55.85
P1039-10	8.500	+.005 / -.000	0.275 - 0.290	0.310 - 0.311	46.29
P1039-16	8.500	+.005 / -.000	0.275 - 0.290	0.497 - 0.498	87.32
P1040*	8.750	+.005 / -.000	0.284 - 0.299	0.372 - 0.373	54.35
P1040-06*	8.750	+.005 / -.000	0.284 - 0.299	0.185 - 0.187	54.35
P1040-08*	8.750	+.005 / -.000	0.284 - 0.299	0.248 - 0.249	54.35
P1040-10*	8.750	+.005 / -.000	0.284 - 0.299	0.310 - 0.311	54.35
P1040-16*	8.750	+.005 / -.000	0.284 - 0.299	0.497 - 0.498	54.35
P1041	9.000	+.005 / -.000	0.294 - 0.309	0.372 - 0.373	55.09
P1041-06*	9.000	+.005 / -.000	0.294 - 0.309	0.185 - 0.187	55.09
P1041-08*	9.000	+.005 / -.000	0.294 - 0.309	0.248 - 0.249	55.09

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

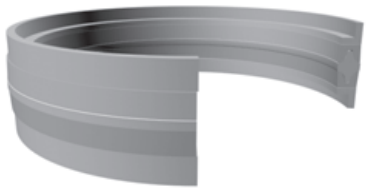
P1000 SERIES - CAST IRON

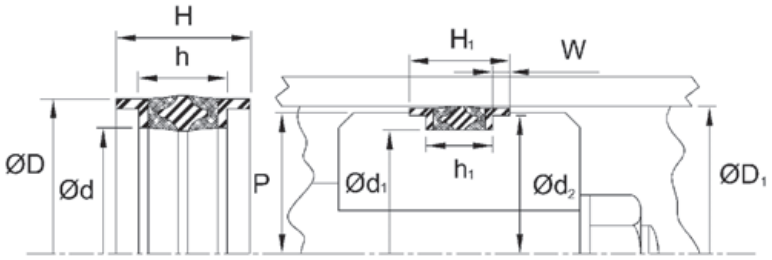
Ref.Number	Bore Diameter		Nominal Seal Dimensions		$
		Tol.	S	H	
P1041-10	9.000	+.005 / -.000	0.294 - 0.309	0.310 - 0.311	58.87
P1041-14	9.000	+.005 / -.000	0.297 - 0.312	0.435 - 0.436	72.32
P1041-16	9.000	+.005 / -.000	0.294 - 0.309	0.497 - 0.498	72.32
P1042	9.250	+.005 / -.000	0.300 - 0.315	0.372 - 0.373	63.73
P1042-06*	9.250	+.005 / -.000	0.300 - 0.315	0.185 - 0.187	63.73
P1042-08*	9.250	+.005 / -.000	0.300 - 0.315	0.248 - 0.249	63.73
P1042-10	9.250	+.005 / -.000	0.300 - 0.315	0.310 - 0.311	63.73
P1042-16*	9.250	+.005 / -.000	0.300 - 0.315	0.497 - 0.498	63.73
P1043	9.500	+.005 / -.000	0.305 - 0.320	0.372 - 0.373	106.74
P1043-06*	9.500	+.005 / -.000	0.305 - 0.320	0.185 - 0.187	66.42
P1043-08*	9.500	+.005 / -.000	0.305 - 0.320	0.248 - 0.249	66.42
P1043-10	9.500	+.005 / -.000	0.305 - 0.320	0.309 - 0.311	143.20
P1043-16*	9.500	+.005 / -.000	0.305 - 0.320	0.497 - 0.498	71.23
P1044	10.000	+.005 / -.000	0.317 - 0.332	0.371 - 0.373	79.21
P1044-08	10.000	+.005 / -.000	0.317 - 0.332	0.247 - 0.249	76.46
P1044-10	10.000	+.005 / -.000	0.317 - 0.332	0.309 - 0.311	69.85
P1044-16	10.000	+.005 / -.000	0.317 - 0.332	0.496 -0 .498	76.46
P1045	10.500	+.005 / -.000	0.326 - 0.341	0.371 - 0.373	102.23
P1045-08*	10.500	+.005 / -.000	0.326 - 0.341	0.247 - 0.249	102.23
P1045-10*	10.500	+.005 / -.000	0.326 - 0.341	0.309 - 0.311	102.23
P1045-16*	10.500	+.005 / -.000	0.326 - 0.341	0.496 -0 .498	252.32
P1046	11.000	+.006 / -.000	0.343 - 0.358	0.371 - 0.373	177.46

Ref.Number	Bore Diameter		Nominal Seal Dimensions		$
		Tol.	S	H	
P1046-08*	11.000	+.006 / -.000	0.343 - 0.358	0.247 - 0.249	177.46
P1046-10*	11.000	+.006 / -.000	0.343 - 0.358	0.309 - 0.311	177.46
P1046-16	11.000	+.006 / -.000	0.343 - 0.358	0.496 -0 .498	177.46
P1047	11.500	+.006 / -.000	0.358 - 0.373	0.371 - 0.373	177.46
P1047-08*	11.500	+.006 / -.000	0.358 - 0.373	0.247 - 0.249	177.46
P1047-10*	11.500	+.006 / -.000	0.358 - 0.373	0.309 - 0.311	177.46
P1047-16*	11.500	+.006 / -.000	0.358 - 0.373	0.496 - 0.498	177.46
P1048	12.000	+.006 / -.000	0.386 - 0.401	0.371 - 0.373	150.31
P1048-08*	12.000	+.006 / -.000	0.386 - 0.401	0.247 - 0.249	177.46
P1048-10*	12.000	+.006 / -.000	0.386 - 0.401	0.309 - 0.311	177.46
P1048-16	12.000	+.006 / -.000	0.386 - 0.401	0.496 - 0.498	177.46
P1049*	12.500	+.006 / -.000	0.400 - 0.430	0.496 - 0.498	280.22
P1050	13.000	+.006 / -.000	0.400 - 0.430	0.496 - 0.498	205.86
P1050-12*	13.000	+.006 / -.000	0.400 - 0.430	0.371 - 0.373	205.86
P1050-20*	13.000	+.006 / -.000	0.400 - 0.430	0.621 - 0.623	205.86
P1051*	13.500	+.006 / -.000	0.400 - 0.430	0.496 - 0.498	250.71
P1052	14.000	+.006 / -.000	0.430 - 0.460	0.496 - 0.498	213.78
P1052-12	14.000	+.006 / -.000	0.400 - 0.430	0.371 - 0.373	304.85
P1053-12*	14.500	+.006 / -.000	0.435 - 0.465	0.371 - 0.373	395.97
P1054	15.000	+.006 / -.000	0.463 - 0.493	0.496 - 0.498	289.41
P1056	16.000	+.006 / -.000	0.487 - 0.517	0.496 - 0.498	348.19
P1057-16*	16.500	+.006 / -.000	0.435 - 0.465	0.496 - 0.498	717.62

P3C - Piston Seals

Neofab/Polyamide





Temperature: 22/212F [-30/100C] **Pressure: 10000 PSI [700 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
									d2	P	h1	W	
		Tol.	D	d	h	H	d1	Tol	+.005/-.005	+.000/-.005	+.025/+.035	+.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	13.59
P3C-01000/58*	1.000	+.005 / -.000	1.000	0.625	0.593	0.967	0.625	+.002 / -.002	0.868	0.968	0.593	0.187	46.95
P3C-01125*	1.125	+.005 / -.000	1.000	0.625	0.750	1.125	0.625	+.002 / -.002	0.990	1.093	0.750	0.187	47.77
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	16.23
P3C-01250/58*	1.250	+.006 / -.000	1.250	0.750	0.750	1.250	0.750	+.003 / -.003	1.118	1.218	0.750	0.250	48.98
P3C-01375*	1.375	+.006 / -.000	1.375	0.875	0.750	1.250	0.875	+.003 / -.003	1.241	1.343	0.750	0.250	18.41
P3C-01500/58	1.500	+.006 / -.000	1.500	1.000	0.625	1.000	1.000	+.003 / -.003	1.362	1.460	0.625	0.187	51.03
P3C-01500-1/58*	1.500	+.006 / -.000	1.500	1.000	0.625	1.125	1.000	+.003 / -.003	1.362	1.460	0.625	0.250	51.23
P3C-01500-2 *	1.500	+.006 / -.000	1.500	1.000	0.750	1.250	1.000	+.003 / -.003	1.365	1.468	0.750	0.250	25.95

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

P3C SERIES - NEO/PA

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
									d2	P	h1	W	
		Tol.	D	d	h	H	d1	Tol	+.005/-.005	+.000/-.005	+.025/+.035	+.000/-.005	
P3C-01500-2/58*	1.500	+.006 / -.000	1.500	1.000	0.750	1.250	1.000	+.003 / -.003	1.371	1.468	0.750	0.250	51.90
P3C-01625*	1.625	+.006 / -.000	1.625	1.000	0.937	1.437	1.000	+.003 / -.003	1.428	1.562	0.937	0.250	42.44
P3C-01625/58*	1.625	+.006 / -.000	1.625	1.000	0.937	1.437	1.000	+.003 / -.003	1.428	1.562	0.937	0.250	53.86
P3C-01750*	1.750	+.006 / -.000	1.750	1.125	0.750	1.250	1.125	+.003 / -.003	1.572	1.710	0.750	0.250	20.83
P3C-01750/58	1.750	+.006 / -.000	1.750	1.125	0.750	1.250	1.125	+.003 / -.003	1.572	1.710	0.750	0.250	53.52
P3C-01750-1	1.750	+.006 / -.000	1.750	1.125	0.937	1.428	1.125	+.003 / -.003	1.552	1.687	0.937	0.250	30.16
P3C-01750-1/58*	1.750	+.006 / -.000	1.750	1.125	0.937	1.437	1.125	+.003 / -.003	1.555	1.687	0.937	0.250	55.15
P3C-01875 *	1.875	+.006 / -.000	1.875	1.250	0.937	1.437	1.250	+.003 / -.003	1.678	1.812	0.937	0.250	24.54
P3C-01875/58*	1.875	+.006 / -.000	1.875	1.250	0.937	1.437	1.250	+.003 / -.003	1.678	1.812	0.937	0.250	56.76
P3C-02000	2.000	+.007 / -.000	2.000	1.375	0.750	1.250	1.375	+.003 / -.003	1.822	1.962	0.750	0.250	16.95
P3C-02000/58	2.000	+.007 / -.000	2.000	1.375	0.750	1.250	1.375	+.003 / -.003	1.822	1.962	0.750	0.250	57.09
P3C-02000-1	2.000	+.007 / -.000	2.000	1.375	0.937	1.437	1.375	+.003 / -.003	1.802	1.937	0.937	0.250	31.48
P3C-02000-1/58	2.000	+.007 / -.000	2.000	1.375	0.937	1.437	1.375	+.003 / -.003	1.805	1.937	0.937	0.250	58.07
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	59.66
P3C-02250	2.250	+.007 / -.000	2.250	1.625	0.750	1.250	1.625	+.003 / -.003	2.071	2.211	0.750	0.250	59.24
P3C-02250/58	2.250	+.007 / -.000	2.250	1.625	0.750	1.250	1.625	+.003 / -.003	2.071	2.211	0.750	0.250	60.00
P3C-02250-1	2.250	+.007 / -.000	2.250	1.625	0.937	1.437	1.625	+.003 / -.003	2.052	2.187	0.937	0.250	34.95
P3C-02250-1/58*	2.250	+.007 / -.000	2.250	1.625	0.937	1.437	1.625	+.003 / -.003	2.055	2.187	0.937	0.250	60.98
P3C-02375/58	2.375	+.007 / -.000	2.375	1.750	0.750	1.250	1.750	+.003 / -.003	2.180	2.312	0.750	0.250	61.30
P3C-02375-1*	2.375	+.007 / -.000	2.375	1.750	0.937	1.437	1.750	+.003 / -.003	2.177	2.312	0.937	0.250	22.37
P3C-02375-1/58*	2.375	+.007 / -.000	2.375	1.750	0.937	1.437	1.750	+.003 / -.003	2.180	2.312	0.937	0.250	62.62
P3C-02500	2.500	+.007 / -.000	2.500	1.875	0.750	1.250	1.875	+.003 / -.003	2.321	2.460	0.750	0.250	47.63
P3C-02500/58	2.500	+.007 / -.000	2.500	1.875	0.750	1.250	1.875	+.003 / -.003	2.321	2.460	0.750	0.250	62.25
P3C-02500-1	2.500	+.007 / -.000	2.500	1.875	0.937	1.437	1.875	+.003 / -.003	2.302	2.437	0.937	0.250	39.15
P3C-02500-1/58	2.500	+.007 / -.000	2.500	1.875	0.937	1.437	1.875	+.003 / -.003	2.305	2.437	0.937	0.250	63.89
P3C-02625*	2.625	+.007 / -.000	2.625	2.000	0.937	1.437	2.000	+.004 / -.004	2.428	2.562	0.937	0.250	21.28
P3C-02625/58*	2.625	+.007 / -.000	2.625	2.000	0.937	1.437	2.000	+.004 / -.004	2.428	2.562	0.937	0.250	65.50
P3C-02750/58*	2.750	+.007 / -.000	2.750	2.000	0.937	1.437	2.000	+.004 / -.004	2.524	2.710	0.937	0.254	66.14
P3C-02750-1*	2.750	+.007 / -.000	2.750	2.000	1.187	1.687	2.000	+.004 / -.004	2.482	2.687	1.187	0.250	45.53
P3C-02750-1/58*	2.750	+.007 / -.000	2.750	2.000	1.187	1.687	2.000	+.004 / -.004	2.485	2.687	1.187	0.250	67.46
P3C-02875/58*	2.875	+.007 / -.000	2.875	2.125	1.187	1.687	2.125	+.004 / -.004	2.610	2.812	1.187	0.250	69.08
P3C-03000*	3.000	+.007 / -.000	3.000	2.250	0.937	1.437	2.250	+.004 / -.004	2.774	2.960	0.937	0.250	29.34
P3C-03000/58	3.000	+.007 / -.000	3.000	2.250	0.937	1.437	2.250	+.004 / -.004	2.774	2.960	0.937	0.250	69.08
P3C-03000-1	3.000	+.007 / -.000	3.000	2.250	1.187	1.687	2.250	+.004 / -.004	2.732	2.937	1.187	0.250	29.34
P3C-03000-1/58	3.000	+.007 / -.000	3.000	2.250	1.187	1.687	2.250	+.004 / -.004	2.735	2.937	1.187	0.250	70.36
P3C-03000-2*	3.000	+.007 / -.000	3.000	2.250	0.843	1.343	2.250	+.004 / -.004	2.732	2.937	0.843	0.250	27.41
P3C-03125/58*	3.125	+.007 / -.000	3.125	2.375	1.187	1.687	2.375	+.004 / -.004	2.858	3.062	1.187	0.250	71.99
P3C-03250/58	3.250	+.009 / -.000	3.250	2.500	0.937	1.437	2.500	+.004 / -.004	3.024	3.210	0.937	0.250	71.99
P3C-03250-1	3.250	+.009 / -.000	3.250	2.500	1.187	1.687	2.500	+.004 / -.004	2.982	3.187	1.187	0.250	49.93
P3C-03250-1/58	3.250	+.009 / -.000	3.250	2.500	1.187	1.687	2.500	+.004 / -.004	2.985	3.187	1.187	0.250	73.26
P3C-03375*	3.375	+.009 / -.000	3.375	2.625	1.187	1.562	2.625	+.004 / -.004	3.119	3.315	1.187	0.187	46.83
P3C-03500	3.500	+.009 / -.000	3.500	2.750	0.937	1.437	2.750	+.004 / -.004	3.273	3.460	0.937	0.250	89.66
P3C-03500/58	3.500	+.009 / -.000	3.500	2.750	0.937	1.437	2.750	+.004 / -.004	3.273	3.460	0.937	0.250	74.92
P3C-03500-1	3.500	+.009 / -.000	3.500	2.750	1.187	1.687	2.750	+.004 / -.004	3.232	3.437	1.187	0.250	53.10
P3C-03500-1/58*	3.500	+.009 / -.000	3.500	2.750	1.187	1.687	2.750	+.004 / -.004	3.235	3.437	1.187	0.250	76.16
P3C-03625/58*	3.625	+.009 / -.000	3.625	2.875	1.187	1.687	2.875	+.004 / -.004	3.360	3.562	1.187	0.250	77.86
P3C-03750*	3.750	+.009 / -.000	3.750	3.000	1.187	1.687	3.000	+.004 / -.004	3.482	3.687	1.187	0.245	55.44
P3C-03750/58*	3.750	+.009 / -.000	3.750	3.000	1.187	1.687	3.000	+.004 / -.004	3.485	3.687	1.187	0.250	79.08

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

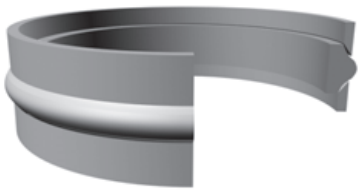
P3C SERIES - NEO/PA

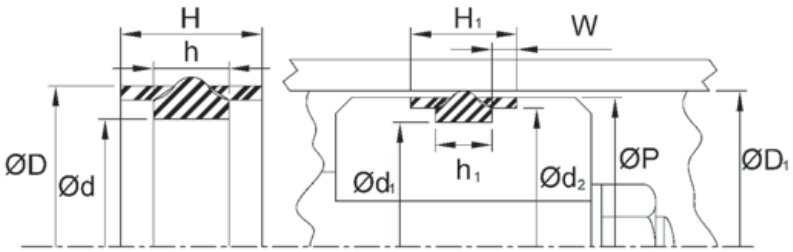
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
									d2	P	h1	W	
		Tol.	D	d	h	H	d1	Tol	+.005/-.005	+.000/-.005	+.025/+.035	+.000/-.005	
P3C-03875/58*	3.875	+.009 / -.000	3.875	3.125	1.187	1.687	3.125	+.004 / -.004	3.610	3.812	1.187	0.250	80.39
P3C-04000/58	4.000	+.009 / -.000	4.000	3.250	0.937	1.437	3.250	+.004 / -.004	3.772	3.958	0.937	0.250	82.03
P3C-04000-1*	4.000	+.009 / -.000	4.000	3.250	1.187	1.687	3.250	+.004 / -.004	3.732	3.937	1.187	0.250	62.01
P3C-04000-1/58*	4.000	+.009 / -.000	4.000	3.250	1.187	1.687	3.250	+.004 / -.004	3.735	3.937	1.187	0.250	82.05
P3C-04250/58	4.250	+.009 / -.000	4.250	3.500	0.937	1.437	3.500	+.004 / -.004	4.022	4.210	0.937	0.250	83.31
P3C-04250-1*	4.250	+.009 / -.000	4.250	3.500	1.187	1.687	3.500	+.004 / -.004	3.982	4.187	1.187	0.250	43.66
P3C-04250-1/58*	4.250	+.009 / -.000	4.250	3.500	1.187	1.687	3.500	+.004 / -.004	3.985	4.187	1.187	0.250	84.98
P3C-04500/58	4.500	+.009 / -.000	4.500	3.500	1.250	1.750	3.500	+.004 / -.004	4.231	4.450	1.250	0.250	69.91
P3C-04500-1*	4.500	+.009 / -.000	4.500	3.500	1.500	2.250	3.500	+.004 / -.004	4.232	4.437	1.500	0.375	74.27
P3C-04500-1/58*	4.500	+.009 / -.000	4.500	3.500	1.500	2.250	3.500	+.004 / -.004	4.234	4.437	1.500	0.375	96.97
P3C-04750/58*	4.750	+.010 / -.000	4.750	3.750	1.250	1.750	3.750	+.004 / -.004	4.483	4.700	1.250	0.250	103.10
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	75.94
P3C-04750-1/58*	4.750	+.010 / -.000	4.750	3.750	1.500	2.250	3.750	+.004 / -.004	4.485	4.687	1.500	0.375	109.64
P3C-05000/58	5.000	+.010 / -.000	5.000	4.000	1.250	1.750	4.000	+.004 / -.004	4.730	4.956	1.250	0.250	115.77
P3C-05000-1*	5.000	+.010 / -.000	5.000	4.000	1.500	2.250	4.000	+.004 / -.004	4.732	4.937	1.500	0.375	85.24
P3C-05000-1/58*	5.000	+.010 / -.000	5.000	4.000	1.500	2.250	4.000	+.004 / -.004	4.735	4.937	1.500	0.375	122.25
P3C-05250*	5.250	+.010 / -.000	5.250	4.250	1.500	2.250	4.250	+.004 / -.004	4.982	5.187	1.500	0.375	47.62
P3C-05250/58*	5.250	+.010 / -.000	5.250	4.250	1.500	2.250	4.250	+.004 / -.004	4.980	5.187	1.500	0.375	128.50
P3C-05500-1*	5.500	+.010 / -.000	5.500	4.500	1.250	1.750	4.500	+.004 / -.004	5.235	5.456	1.250	0.250	128.18
P3C-05500-1/58*	5.500	+.010 / -.000	5.500	4.500	1.250	1.750	4.500	+.004 / -.004	5.235	5.456	1.250	0.250	141.36
P3C-05500-2*	5.500	+.010 / -.000	5.500	4.500	1.500	2.250	4.500	+.004 / -.004	5.232	5.437	1.500	0.375	90.87
P3C-05500-2/58*	5.500	+.010 / -.000	5.500	4.500	1.500	2.250	4.500	+.004 / -.004	5.235	5.437	1.500	0.375	147.54
P3C-05750/58*	5.750	+.010 / -.000	5.750	4.750	1.500	2.250	4.750	+.005 / -.005	5.484	5.687	1.500	0.375	160.16
P3C-06000	6.000	+.010 / -.000	6.000	5.000	1.250	1.750	5.000	+.005 / -.005	5.728	5.954	1.250	0.250	259.24
P3C-06000/58	6.000	+.010 / -.000	6.000	5.000	1.250	1.750	5.000	+.005 / -.005	5.728	5.954	1.250	0.250	166.69
P3C-06000-1*	6.000	+.010 / -.000	6.000	5.000	1.500	2.250	5.000	+.005 / -.005	5.732	5.937	1.500	0.375	96.76
P3C-06000-1/58*	6.000	+.010 / -.000	6.000	5.000	1.500	2.250	5.000	+.005 / -.005	5.736	5.937	1.500	0.375	173.03
P3C-06250/58*	6.250	+.010 / -.000	6.250	5.250	1.500	2.250	5.250	+.005 / -.005	5.984	6.187	1.500	0.375	183.10
P3C-06500/58*	6.500	+.010 / -.000	6.500	5.500	1.250	1.750	5.500	+.005 / -.005	6.227	6.454	1.250	0.250	135.38
P3C-06500-1*	6.500	+.010 / -.000	6.500	5.500	1.500	2.250	5.500	+.005 / -.005	6.232	6.437	1.500	0.375	144.19
P3C-06500-1/58*	6.500	+.010 / -.000	6.500	5.500	1.500	2.250	5.500	+.005 / -.005	6.236	6.437	1.500	0.375	198.45
P3C-06750/58*	6.750	+.010 / -.000	6.750	5.750	1.500	2.250	5.750	+.005 / -.005	6.484	6.687	1.500	0.375	215.58
P3C-07000	7.000	+.010 / -.000	7.000	6.000	1.500	2.250	6.000	+.005 / -.005	6.732	6.937	1.500	0.375	152.93
P3C-07000/58	7.000	+.010 / -.000	7.000	6.000	1.500	2.250	6.000	+.005 / -.005	6.736	6.937	1.500	0.375	223.78
P3C-07250/58	7.250	+.010 / -.000	7.250	6.000	1.875	2.625	6.000	+.005 / -.005	6.990	7.187	1.875	0.375	174.83
P3C-07500/58	7.500	+.010 / -.000	7.500	6.250	1.875	2.625	6.250	+.005 / -.005	7.240	7.437	1.875	0.375	252.25
P3C-08000/58	8.000	+.011 / -.000	8.000	7.000	1.250	2.000	7.000	+.005 / -.005	7.740	7.937	1.250	0.375	268.19
P3C-09000/58	9.000	+.011 / -.000	9.000	8.000	1.250	2.000	8.000	+.006 / -.006	8.736	8.937	1.250	0.375	311.78
P3C-09000-1/58*	9.000	+.011 / -.000	9.000	7.750	1.875	2.625	7.750	+.006 / -.006	8.740	8.937	1.875	0.375	328.50
P3C-10000/58	10.000	+.013 / -.000	10.000	9.000	1.250	2.000	9.000	+.006 / -.006	9.740	9.937	1.250	0.375	369.67

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

P3D - Piston Seals

Nitrile/Polyamide





Temperature: -22/212F [-30/100C] **Pressure: 2500 PSI [160 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.000/+.003	+.005/-.005	+.000/-.005	+.015/-.000	+.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	7.71
P3D-01000/65*	1.000	+.003 / -.000	1.000	0.687	0.343	0.593	0.687	0.829	0.937	0.348	0.125	14.70
P3D-01250*	1.250	+.003 / -.000	1.250	0.937	0.343	0.643	0.937	1.079	1.187	0.348	0.125	7.32
P3D-01250/65*	1.250	+.003 / -.000	1.250	0.937	0.343	0.643	0.937	1.079	1.187	0.348	0.125	14.70
P3D-01500*	1.500	+.003 / -.000	1.500	1.125	0.437	0.737	1.125	1.324	1.437	0.442	0.150	7.32
P3D-01500/65	1.500	+.003 / -.000	1.500	1.125	0.437	0.737	1.125	1.324	1.437	0.442	0.150	17.92
P3D-01750*	1.750	+.003 / -.000	1.750	1.375	0.437	0.737	1.375	1.574	1.687	0.442	0.150	12.99
P3D-01750/65*	1.750	+.003 / -.000	1.750	1.375	0.437	0.737	1.375	1.574	1.687	0.442	0.150	21.41
P3D-02000*	2.000	+.003 / -.000	2.000	1.625	0.437	0.737	1.625	1.824	1.937	0.442	0.150	8.00
P3D-02000/65	2.000	+.003 / -.000	2.000	1.625	0.437	0.737	1.625	1.824	1.937	0.442	0.150	25.98
P3D-02250*	2.250	+.003 / -.000	2.250	1.875	0.437	0.737	1.875	2.075	2.187	0.442	0.150	10.69
P3D-02250/65*	2.250	+.003 / -.000	2.250	1.875	0.437	0.737	1.875	2.075	2.187	0.442	0.150	28.77
P3D-02500*	2.500	+.003 / -.000	2.500	2.125	0.437	0.737	2.125	2.325	2.437	0.442	0.150	10.02
P3D-02500/65	2.500	+.003 / -.000	2.500	2.125	0.437	0.737	2.125	2.325	2.437	0.442	0.150	30.93
P3D-02750*	2.750	+.003 / -.000	2.750	2.375	0.437	0.737	2.375	2.575	2.687	0.442	0.150	19.75
P3D-02750/65	2.750	+.003 / -.000	2.750	2.375	0.437	0.737	2.375	2.575	2.687	0.442	0.150	33.51
P3D-02875/65*	2.875	+.003 / -.000	2.875	2.500	0.437	0.737	2.500	2.700	2.812	0.442	0.150	37.66
P3D-03000*	3.000	+.004 / -.000	3.000	2.625	0.437	0.737	2.625	2.825	2.937	0.442	0.150	12.23
P3D-03000/65	3.000	+.004 / -.000	3.000	2.625	0.437	0.737	2.625	2.825	2.937	0.442	0.150	39.06
P3D-03250*	3.250	+.004 / -.000	3.250	2.875	0.437	0.737	2.875	3.075	3.187	0.442	0.150	13.06
P3D-03250/65	3.250	+.004 / -.000	3.250	2.875	0.437	0.737	2.875	3.075	3.187	0.442	0.150	39.44
P3D-03500*	3.500	+.004 / -.000	3.500	3.000	0.562	0.982	3.000	3.270	3.437	0.567	0.210	13.98
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	45.11
P3D-03750*	3.750	+.004 / -.000	3.750	3.250	0.562	0.982	3.250	3.520	3.687	0.567	0.210	15.73
P3D-03750/65	3.750	+.004 / -.000	3.750	3.250	0.562	0.982	3.250	3.520	3.687	0.567	0.210	45.23
P3D-04000*	4.000	+.004 / -.000	4.000	3.500	0.562	0.982	3.500	3.770	3.937	0.567	0.210	17.47
P3D-04000/65	4.000	+.004 / -.000	4.000	3.500	0.562	0.982	3.500	3.770	3.937	0.567	0.210	50.35
P3D-04250/65*	4.250	+.004 / -.000	4.250	3.750	0.562	0.982	3.750	4.020	4.187	0.567	0.210	51.41
P3D-04500*	4.500	+.004 / -.000	4.500	4.000	0.562	0.982	4.000	4.270	4.437	0.567	0.210	19.31
P3D-04500/65	4.500	+.004 / -.000	4.500	4.000	0.562	0.982	4.000	4.270	4.437	0.567	0.210	54.15
P3D-04750/65*	4.750	+.004 / -.000	4.750	4.250	0.562	0.982	4.250	4.520	4.687	0.567	0.210	58.08
P3D-05000*	5.000	+.004 / -.000	5.000	4.375	0.687	1.375	4.375	4.689	4.937	0.692	0.344	21.15
P3D-05000/65	5.000	+.004 / -.000	5.000	4.375	0.687	1.375	4.375	4.689	4.937	0.692	0.344	65.12
P3D-05250/65*	5.250	+.004 / -.000	5.250	4.625	0.687	1.375	4.625	4.938	5.187	0.692	0.344	68.38
P3D-05500/65	5.500	+.004 / -.000	5.500	4.875	0.687	1.375	4.875	5.188	5.437	0.692	0.344	70.28
P3D-06000*	6.000	+.004 / -.000	6.000	5.250	1.000	2.000	5.250	5.712	5.937	1.005	0.500	23.18
P3D-06000/65*	6.000	+.004 / -.000	6.000	5.250	1.000	2.000	5.250	5.712	5.937	1.005	0.500	74.04
P3D-06500/65*	6.500	+.004 / -.000	6.500	5.750	1.000	2.000	5.750	6.212	6.437	1.005	0.500	79.29

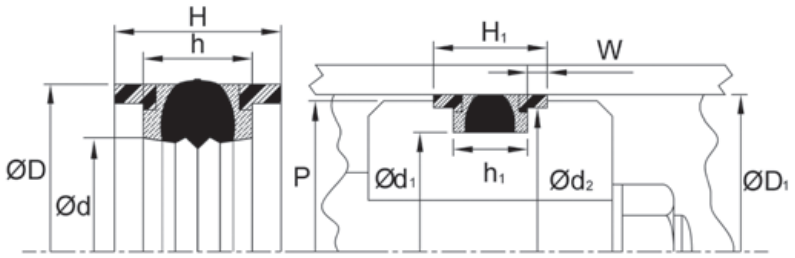
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

P3D SERIES - NBR/PA

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.000/+.003	+.005/-.005	+.000/-.005	+.015/-.000	+.000/-.005	
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	90.56
P3D-07500/65*	7.500	+.005 / -.000	7.500	6.750	1.000	2.000	6.750	7.212	7.437	1.005	0.500	90.80
P3D-08000/65*	8.000	+.005 / -.000	8.000	7.250	1.000	2.000	7.250	7.712	7.937	1.005	0.500	100.71
P3D-09000/65	9.000	+.005 / -.000	9.000	8.250	1.000	2.000	8.250	8.712	8.937	1.005	0.500	108.99

P5B - Piston Seals

Nitrile/Polyamide/Polyester



Temperature: -22/212F [-30/100C] **Pressure: 6000 PSI [415 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.000/+.003	+.005/-.005	+.000/-.005	+.015/-.000	+.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	11.95
P5B-01062*	1.062	+.003 / -.000	1.062	0.750	0.312	0.428	0.750	0.900	1.038	0.312	0.058	12.13
P5B-01250*	1.250	+.003 / -.000	1.250	0.937	0.331	0.574	0.937	1.079	1.187	0.331	0.121	12.74
P5B-01500	1.500	+.003 / -.000	1.500	1.125	0.425	0.717	1.125	1.324	1.437	0.425	0.146	21.67
P5B-01500-1*	1.500	+.003 / -.000	1.500	1.000	0.625	1.125	1.000	1.360	1.460	0.625	0.250	7.77
P5B-01750*	1.750	+.003 / -.000	1.750	1.375	0.425	0.717	1.375	1.574	1.687	0.425	0.146	24.59
P5B-01750-1*	1.750	+.003 / -.000	1.750	1.375	0.490	0.973	1.375	1.638	1.710	0.490	0.241	24.94
P5B-01750-2*	1.750	+.003 / -.000	1.750	1.125	0.750	1.250	1.125	1.569	1.698	0.750	0.250	8.78
P5B-02000	2.000	+.003 / -.000	2.000	1.625	0.437	0.737	1.625	1.821	1.937	0.425	0.146	17.58
P5B-02000-1*	2.000	+.003 / -.000	2.000	1.625	0.478	0.961	1.625	1.888	1.960	0.478	0.241	25.25
P5B-02000-2 *	2.000	+.003 / -.000	2.000	1.375	0.750	1.250	1.375	1.820	1.948	0.750	0.250	9.63
P5B-02000-2/53*	2.000	+.003 / -.000	2.000	1.375	0.750	1.250	1.375	1.820	1.948	0.750	0.250	40.05
P5B-02250	2.250	+.003 / -.000	2.250	1.625	0.750	1.250	1.625	2.069	2.197	0.750	0.250	18.90
P5B-02250/53*	2.250	+.003 / -.000	2.250	1.625	0.750	1.250	1.625	2.069	2.197	0.750	0.250	46.36
P5B-02375*	2.375	+.003 / -.000	2.375	2.000	0.425	0.717	2.000	2.195	2.312	0.425	0.146	29.32
P5B-02376	2.375	+.003 / -.000	2.375	1.750	0.750	1.250	1.734	2.194	2.322	0.750	0.250	12.25
P5B-02500	2.500	+.003 / -.000	2.500	2.125	0.437	0.717	2.125	2.320	2.437	0.437	0.146	13.59
P5B-02500-1*	2.500	+.003 / -.000	2.500	2.000	0.638	1.121	2.000	2.320	2.460	0.638	0.241	30.76
P5B-02500-2	2.500	+.003 / -.000	2.500	1.875	0.750	1.250	1.875	2.318	2.446	0.750	0.250	13.59
P5B-02500-2/53	2.500	+.003 / -.000	2.500	1.875	0.750	1.250	1.875	2.318	2.446	0.750	0.250	52.78
P5B-02625*	2.625	+.003 / -.000	2.625	2.000	0.750	1.250	2.000	2.445	2.570	0.750	0.250	17.24
P5B-02750*	2.750	+.003 / -.000	2.750	2.375	0.425	0.717	2.375	2.575	2.687	0.425	0.146	33.13
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	33.79
P5B-02750-2*	2.750	+.003 / -.000	2.750	2.000	0.937	1.437	2.000	2.522	2.685	0.937	0.250	22.59
P5B-02750-2/53*	2.750	+.003 / -.000	2.750	2.000	0.937	1.437	2.000	2.524	2.690	0.937	0.250	51.35
P5B-03000	3.000	+.004 / -.000	3.000	2.625	0.437	0.717	2.625	2.825	2.937	0.425	0.146	33.22
P5B-03000-1*	3.000	+.004 / -.000	3.000	2.375	0.763	1.246	2.375	2.772	2.960	0.763	0.241	35.32

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

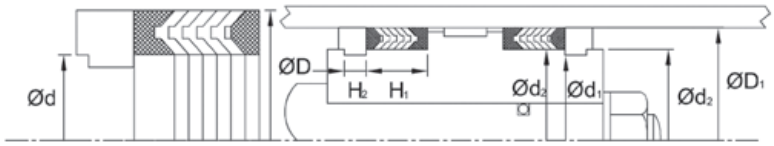
P5B SERIES - NBR/PA/POLYESTER

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/-.000	W +.000/-.005	
P5B-03000-2*	3.000	+.004 / -.000	3.000	2.250	0.937	1.437	2.250	2.772	2.935	0.937	0.250	14.55
P5B-0300-02/53*	3.000	+.004 / -.000	3.000	2.250	0.937	1.437	2.250	2.774	2.940	0.937	0.250	54.72
P5B-03250	3.250	+.004 / -.000	3.250	2.625	0.775	1.257	2.625	3.021	3.184	0.775	0.241	25.49
P5B-03250-1*	3.250	+.004 / -.000	3.250	2.500	0.937	1.437	2.500	3.021	3.184	0.937	0.250	25.15
P5B-03250-1/53*	3.250	+.004 / -.000	3.250	2.500	0.937	1.437	2.500	3.023	3.190	0.937	0.250	61.33
P5B-03500*	3.500	+.004 / -.000	3.500	3.000	0.550	0.962	3.000	3.265	3.437	0.550	0.206	43.20
P5B-03500-1*	3.500	+.004 / -.000	3.500	2.850	0.775	1.355	2.850	3.271	3.460	0.775	0.290	25.00
P5B-03500-2	3.500	+.004 / -.000	3.500	2.750	0.937	1.437	2.750	3.271	3.434	0.937	0.250	15.87
P5B-03500-2/53	3.500	+.004 / -.000	3.500	2.750	0.937	1.437	2.750	3.274	3.440	0.937	0.250	65.44
P5B-03500-3*	3.500	+.004 / -.000	3.500	2.750	1.187	1.687	2.750	3.235	3.437	1.187	0.250	42.94
P5B-03750*	3.750	+.004 / -.000	3.750	3.250	0.550	0.962	3.250	3.520	3.687	0.550	0.206	45.47
P5B-03750-1*	3.750	+.004 / -.000	3.750	3.000	0.937	1.437	3.000	3.524	3.690	0.937	0.250	28.27
P5B-03750-1/53*	3.750	+.004 / -.000	3.750	3.000	0.937	1.437	3.000	3.524	3.690	0.937	0.250	61.26
P5B-04000*	4.000	+.004 / -.000	4.000	3.500	0.550	0.962	3.500	3.770	3.937	0.550	0.206	49.28
P5B-04000-1	4.000	+.004 / -.000	4.000	3.375	0.775	1.257	3.375	3.772	3.960	0.775	0.241	31.85
P5B-04000-2	4.000	+.004 / -.000	4.000	3.250	0.937	1.437	3.250	3.770	3.940	0.937	0.250	21.10
P5B-04000-2/53*	4.000	+.004 / -.000	4.000	3.250	0.937	1.437	3.250	3.773	3.940	0.937	0.250	73.36
P5B-04250	4.250	+.004 / -.000	4.250	3.500	0.937	1.437	3.500	4.019	4.183	0.937	0.250	55.12
P5B-04250/53*	4.250	+.004 / -.000	4.250	3.500	0.937	1.437	3.500	4.024	4.187	0.937	0.250	78.42
P5B-04500*	4.500	+.004 / -.000	4.500	3.500	1.250	1.750	3.500	4.229	4.422	1.250	0.250	37.63
P5B-04500/53*	4.500	+.004 / -.000	4.500	3.500	1.250	1.750	3.500	4.232	4.428	1.250	0.250	83.97
P5B-04750/53*	4.750	+.004 / -.000	4.750	3.750	1.250	2.000	3.750	4.463	4.660	1.250	0.375	132.25
P5B-05000	5.000	+.004 / -.000	5.000	4.250	0.963	1.446	4.250	4.772	4.960	0.963	0.241	44.02
P5B-05000-1	5.000	+.004 / -.000	5.000	4.000	1.250	2.000	4.000	4.728	4.920	1.250	0.375	46.89
P5B-05000-1/53	5.000	+.004 / -.000	5.000	4.000	1.250	2.000	4.000	4.712	4.910	1.250	0.375	94.32
P5B-05250*	5.250	+.004 / -.000	5.250	4.250	1.250	2.000	4.250	4.959	5.152	1.250	0.375	76.90
P5B-05500	5.500	+.004 / -.000	5.500	4.500	1.250	2.000	4.500	5.212	4.401	1.250	0.375	47.18
P5B-05500/53*	5.500	+.004 / -.000	5.500	4.500	1.250	2.000	4.500	5.213	5.410	1.250	0.375	104.43
P5B-05500-1*	5.500	+.004 / -.000	5.500	4.500	1.250	1.750	4.500	5.212	5.401	1.250	0.250	48.32
P5B-06000	6.000	+.004 / -.000	6.000	5.000	1.250	2.000	5.000	5.709	5.902	1.250	0.375	57.96
P5B-06000/53	6.000	+.004 / -.000	6.000	5.000	1.250	2.000	5.000	5.713	5.910	1.250	0.375	111.11
P5B-06000-1*	6.000	+.004 / -.000	6.000	5.000	1.500	2.250	5.000	5.736	5.937	1.500	0.375	51.27
P5B-06500*	6.500	+.004 / -.000	6.500	5.500	1.250	2.000	5.500	6.150	6.402	1.250	0.375	194.45
P5B-06500-1*	6.500	+.004 / -.000	6.500	5.500	1.250	1.750	5.500	6.213	6.402	1.250	0.250	54.67
P5B-07000	7.000	+.004 / -.000	7.000	6.000	1.250	2.000	6.000	6.713	6.910	1.250	0.375	101.46
P5B-07000-1*	7.000	+.004 / -.000	7.000	6.000	1.250	1.750	6.000	6.713	6.910	1.250	0.250	103.44
P5B-08000	8.000	+.005 / -.000	8.000	7.000	1.250	2.250	7.000	7.675	7.902	1.250	0.508	184.70
P5B-08000-1*	8.000	+.005 / -.000	8.000	7.000	1.250	2.000	7.000	7.723	7.920	1.250	0.375	160.71

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

Hydrolock Vee Set

Hytrel/Nylon



1740 = 3 Vees, 1741 = 4 Vees, 1742 = 5 Vees

Temperature: -40/220F [-40/104] **Pressure: 6000 PSI [415 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
							d1	d2	1740	1741	1742	h2	
		Tol.	D	d	H	BEARING	+.003/+.000	+.000/-.005	H1 - TOL: + .005/-.000			+.005/-.000	
75-1742-150*	1.500	+.003 / -.000	1.500	1.000			0.750	1.000	0.750	0.875	1.000	0.252	O/R
75-1742-150-050-FB*	1.500	+.003 / -.000	1.500	1.000		0.500	0.750	1.000	1.000	1.125	1.250	0.252	O/R
75-1742-150-100-FB*	1.500	+.003 / -.000	1.500	1.000		1.000	0.750	1.000	1.500	1.625	1.750	0.252	O/R
75-1742-175*	1.750	+.003 / -.000	1.750	1.250			1.000	1.250	0.750	0.875	1.000	0.252	O/R
75-1742-175-050-FB*	1.750	+.003 / -.000	1.750	1.250		0.500	1.000	1.250	1.000	1.125	1.250	0.252	O/R
75-1742-175-100-FB*	1.750	+.003 / -.000	1.750	1.250		1.000	1.000	1.250	1.500	1.625	1.750	0.252	O/R
75-1742-200*	2.000	+.003 / -.000	2.000	1.500			1.250	1.500	0.750	0.875	1.000	0.252	O/R
75-1742-200-050-FB*	2.000	+.003 / -.000	2.000	1.500		0.500	1.250	1.500	1.000	1.125	1.250	0.252	O/R
75-1742-200-100-FB*	2.000	+.003 / -.000	2.000	1.500		1.000	1.250	1.500	1.500	1.625	1.750	0.252	O/R
75-1742-225*	2.250	+.003 / -.000	2.250	1.750			1.500	1.750	0.750	0.875	1.000	0.252	72.53
75-1742-225-050-FB*	2.250	+.003 / -.000	2.250	1.750		0.500	1.500	1.750	1.000	1.125	1.250	0.252	73.60
75-1742-225-100-FB*	2.250	+.003 / -.000	2.250	1.750		1.000	1.500	1.750	1.500	1.625	1.750	0.252	74.66
75-1742-250	2.500	+.003 / -.000	2.500	2.000			1.750	2.000	0.750	0.875	1.000	0.252	51.86
75-1742-250-050-FB*	2.500	+.003 / -.000	2.500	2.000		0.500	1.750	2.000	1.000	1.125	1.250	0.252	52.61
75-1742-250-100-FB*	2.500	+.003 / -.000	2.500	2.000		1.000	1.750	2.000	1.500	1.625	1.750	0.252	53.37
75-1742-275*	2.750	+.003 / -.000	2.750	2.250			2.000	2.250	0.750	0.875	1.000	0.252	47.79
75-1742-275-050-FB*	2.750	+.003 / -.000	2.750	2.250		0.500	2.000	2.250	1.000	1.125	1.250	0.252	48.50
75-1742-275-100-FB*	2.750	+.003 / -.000	2.750	2.250		1.000	2.000	2.250	1.500	1.625	1.750	0.252	49.19
75-1742-300	3.000	+.004 / -.000	3.000	2.500			2.250	2.500	0.750	0.875	1.000	0.252	48.67
75-1742-300-050-FB*	3.000	+.004 / -.000	3.000	2.500		0.500	2.250	2.500	1.000	1.125	1.250	0.252	49.38
75-1742-300-100-FB*	3.000	+.004 / -.000	3.000	2.500		1.000	2.250	2.500	1.500	1.625	1.750	0.252	50.10
75-1742-350*	3.500	+.004 / -.000	3.500	3.000			2.750	3.000	0.750	0.875	1.000	0.252	71.05
75-1742-350-050-FB*	3.500	+.004 / -.000	3.500	3.000		0.500	2.750	3.000	1.000	1.125	1.250	0.252	72.10
75-1742-350-100-FB*	3.500	+.004 / -.000	3.500	3.000		1.000	2.750	3.000	1.500	1.625	1.750	0.252	73.14
75-1742-400	4.000	+.004 / -.000	4.000	3.500			3.250	3.500	0.750	0.875	1.000	0.377	83.06
75-1742-400-050-FB*	4.000	+.004 / -.000	4.000	3.500		0.500	3.250	3.500	1.000	1.125	1.250	0.377	84.29
75-1742-400-100-FB*	4.000	+.004 / -.000	4.000	3.500		1.000	3.250	3.500	1.500	1.625	1.750	0.377	85.51
75-1742-450	4.500	+.004 / -.000	4.500	4.000			3.750	4.000	0.750	0.875	1.000	0.377	85.14
75-1742-450-050-FB*	4.500	+.004 / -.000	4.500	4.000		0.500	3.750	4.000	1.000	1.125	1.250	0.377	86.40
75-1742-450-100-FB*	4.500	+.004 / -.000	4.500	4.000		1.000	3.750	4.000	1.500	1.625	1.750	0.377	87.65
75-1742-500	5.000	+.004 / -.000	5.000	4.500			4.125	4.500	0.750	0.875	1.000	0.377	101.06
75-1742-500-050-FB*	5.000	+.004 / -.000	5.000	4.500		0.500	4.125	4.500	1.000	1.125	1.250	0.377	102.54
75-1742-500-100-FB*	5.000	+.004 / -.000	5.000	4.500		1.000	4.125	4.500	1.500	1.625	1.750	0.377	104.04
75-1742-550	5.500	+.004 / -.000	5.500	5.000			4.625	5.000	0.750	0.875	1.000	0.377	108.31
75-1742-550-050-FB*	5.500	+.004 / -.000	5.500	5.000		0.500	4.625	5.000	1.000	1.125	1.250	0.377	109.91
75-1742-550-100-FB*	5.500	+.004 / -.000	5.500	5.000		1.000	4.620	5.000	1.500	1.625	1.750	0.377	111.49
75-1742-575*	5.750	+.004 / -.000	5.750	5.250			4.875	5.250	0.750	0.875	1.000	0.377	125.48

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

HYDROLOCK VEE SETS SERIES - HYTREL/NYLON

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
							d1	d2	1740	1741	1742	h2	
		Tol.	D	d	H	BEARING	+.003/+.000	+.000/-.005	H1 - TOL: + .005/-.000			+.005/-.000	
75-1742-575-050-FB*	5.750	+.004 / -.000	5.750	5.250		0.500	4.875	5.250	1.000	1.125	1.250	0.377	127.33
75-1742-575-100-FB*	5.750	+.004 / -.000	5.750	5.250		1.000	4.875	5.250	1.500	1.625	1.750	0.377	129.17
75-1742-600	6.000	+.004 / -.000	6.000	5.500			5.125	5.500	0.750	0.875	1.000	0.377	111.02
75-1742-600-050-FB*	6.000	+.004 / -.000	6.000	5.500		0.500	5.125	5.500	1.000	1.125	1.250	0.377	112.66
75-1742-600-100-FB*	6.000	+.004 / -.000	6.000	5.500		1.000	5.125	5.500	1.500	1.625	1.750	0.377	114.28
75-1742-625*	6.250	+.004 / -.000	6.250	5.750			5.375	5.750	0.750	0.875	1.000	0.377	118.18
75-1742-625-050-FB*	6.250	+.004 / -.000	6.250	5.750		0.500	5.375	5.750	1.000	1.125	1.250	0.377	119.92
75-1742-625-100-FB	6.250	+.004 / -.000	6.250	5.750		1.000	5.375	5.750	1.500	1.625	1.750	0.377	121.66
75-1742-627*	6.270	+.004 / -.000	6.270	5.770			5.375	5.770	0.750	0.875	1.000	0.377	166.85
75-1742-627-050-FB*	6.270	+.004 / -.000	6.270	5.770		0.500	5.375	5.770	1.000	1.125	1.250	0.377	169.30
75-1742-627-100-FB*	6.270	+.004 / -.000	6.270	5.770		1.000	5.375	5.770	1.500	1.625	1.750	0.377	171.76
75-1742-650*	6.500	+.004 / -.000	6.500	6.000			5.625	6.000	0.750	0.875	1.000	0.377	138.54
75-1742-650-050-FB*	6.500	+.004 / -.000	6.500	6.000		0.500	5.625	6.000	1.000	1.125	1.250	0.377	140.58
75-1742-650-100-FB*	6.500	+.004 / -.000	6.500	6.000		1.000	5.625	6.000	1.500	1.625	1.750	0.377	142.61
75-1742-652*	6.520	+.004 / -.000	6.520	6.020			5.625	6.020	0.750	0.875	1.000	0.377	168.49
75-1742-652-050-FB*	6.520	+.004 / -.000	6.520	6.020		0.500	5.625	6.020	1.000	1.125	1.250	0.377	170.97
75-1742-652-100-FB*	6.520	+.004 / -.000	6.520	6.020		1.000	5.625	6.020	1.500	1.625	1.750	0.377	173.45
75-1742-700*	7.000	+.005 / -.000	7.000	6.500			6.125	6.500	0.750	0.875	1.000	0.377	150.22
75-1742-700-050-FB*	7.000	+.005 / -.000	7.000	6.500		0.500	6.125	6.500	1.000	1.125	1.250	0.377	152.44
75-1742-700-100-FB*	7.000	+.005 / -.000	7.000	6.500		1.000	6.125	6.500	1.500	1.625	1.750	0.377	154.65
75-1742-702*	7.020	+.005 / -.000	7.020	6.520			6.125	6.520	0.750	0.875	1.000	0.377	172.77
75-1742-702-050-FB*	7.020	+.005 / -.000	7.020	6.520		0.500	6.125	6.520	1.000	1.125	1.250	0.377	175.32
75-1742-702-100-FB*	7.020	+.005 / -.000	7.020	6.520		1.000	6.125	6.520	1.500	1.625	1.750	0.377	177.86
75-1742-750*	7.500	+.005 / -.000	7.500	7.000			6.625	7.000	0.750	0.875	1.000	0.377	154.62
75-1742-750-050-FB*	7.500	+.005 / -.000	7.500	7.000		0.500	6.625	7.000	1.000	1.125	1.250	0.377	156.89
75-1742-750-100-FB*	7.500	+.005 / -.000	7.500	7.000		1.000	6.625	7.000	1.500	1.625	1.750	0.377	159.17
75-1742-800*	8.000	+.005 / -.000	8.000	7.500			7.125	7.500	0.800	0.925	1.050	0.377	167.07
75-1742-800-050-FB	8.000	+.005 / -.000	8.000	7.500		0.500	7.125	7.500	1.000	1.125	1.250	0.377	169.53
75-1742-800-100-FB*	8.000	+.005 / -.000	8.000	7.500		1.000	7.125	7.500	1.500	1.625	1.750	0.377	171.98
75-1742-802*	8.020	+.005 / -.000	8.020	7.520			7.125	7.520	0.800	0.925	1.050	0.377	181.17
75-1742-802-050-FB*	8.020	+.005 / -.000	8.020	7.520		0.500	7.125	7.520	1.000	1.125	1.250	0.377	183.84
75-1742-802-100-FB*	8.020	+.005 / -.000	8.020	7.520		1.000	7.125	7.520	1.500	1.625	1.750	0.377	186.50
75-1742-850*	8.500	+.005 / -.000	8.500	8.000			7.625	8.000	0.800	0.925	1.050	0.377	195.77
75-1742-850-050-FB*	8.500	+.005 / -.000	8.500	8.000		0.500	7.625	8.000	1.000	1.125	1.250	0.377	198.65
75-1742-850-100-FB*	8.500	+.005 / -.000	8.500	8.000		1.000	7.625	8.000	1.500	1.625	1.750	0.377	201.53
75-1742-852*	8.520	+.005 / -.000	8.520	8.020			7.625	8.020	0.800	0.925	1.050	0.377	195.77
75-1742-852-050-FB*	8.520	+.005 / -.000	8.520	8.020		0.500	7.625	8.020	1.000	1.125	1.250	0.377	198.65
75-1742-852-100-FB*	8.520	+.005 / -.000	8.520	8.020		1.000	7.625	8.020	1.500	1.625	1.750	0.377	201.53
75-1742-900	9.000	+.005 / -.000	9.000	8.500			8.125	8.500	0.800	0.925	1.050	0.377	268.85
75-1742-900-050-FB*	9.000	+.005 / -.000	9.000	8.500		0.500	8.125	8.500	1.000	1.125	1.250	0.377	273.20
75-1742-900-100-FB*	9.000	+.005 / -.000	9.000	8.500		1.000	8.125	8.500	1.500	1.625	1.750	0.377	283.11
75-1742-902*	9.020	+.005 / -.000	9.020	8.520			8.125	8.520	0.800	0.925	1.050	0.377	296.67
75-1742-902-050-FB*	9.020	+.005 / -.000	9.020	8.520		0.500	8.125	8.520	1.000	1.125	1.250	0.377	301.04
75-1742-902-100-FB*	9.020	+.005 / -.000	9.020	8.520		1.000	8.125	8.520	1.500	1.625	1.750	0.377	305.39
75-1742-1000*	10.000	+.005 / -.000	10.000	9.500			9.125	9.500	0.800	0.925	1.050	0.377	388.13
75-1742-1000-050-FB*	10.000	+.005 / -.000	10.000	9.500		0.500	9.125	9.500	1.000	1.125	1.250	0.377	393.84
75-1742-1000-100-FB*	10.000	+.005 / -.000	10.000	9.500		1.000	9.125	9.500	1.500	1.625	1.750	0.377	399.55
75-1742-1002*	10.020	+.005 / -.000	10.020	9.520			9.125	9.520	0.800	0.925	1.050	0.377	393.94

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

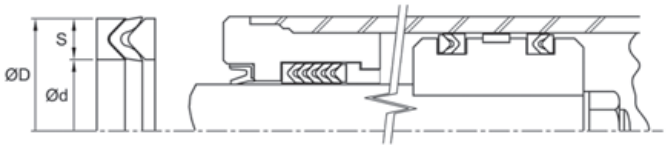
HYDROLOCK VEE SETS SERIES - HYTREL/NYLON

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
							d1	d2	1740	1741	1742	h2	
	Tol.		D	d	H	BEARING	+.003/+.000	+.000/-.005	H1 - TOL: + .005/-.000			+.005/-.000	
75-1742-1002-050-FB*	10.020	+.005 / -.000	10.020	9.520		0.500	9.125	9.520	1.000	1.125	1.250	0.377	399.75
75-1742-1002-100-FB*	10.020	+.005 / -.000	10.020	9.520		1.000	9.125	9.520	1.500	1.625	1.750	0.377	405.54
75-1742-1050*	10.500	+.005 / -.000	10.500	10.000			9.625	10.000	0.860	0.985	1.110	0.377	467.25
75-1742-1050-050-FB*	10.500	+.005 / -.000	10.500	10.000		0.500	9.625	10.000	1.000	1.125	1.250	0.377	474.12
75-1742-1050-100-FB*	10.500	+.005 / -.000	10.500	10.000		1.000	9.625	10.000	1.500	1.625	1.750	0.377	481.00
75-1742-1052*	10.520	+.005 / -.000	10.520	10.020			9.625	10.020	0.860	0.985	1.110	0.377	467.25
75-1742-1052-050-FB*	10.520	+.005 / -.000	10.520	10.020		0.500	9.625	10.020	1.000	1.125	1.250	0.377	474.12
75-1742-1052-100-FB*	10.520	+.005 / -.000	10.520	10.020		1.000	9.625	10.020	1.500	1.625	1.750	0.377	481.00
75-1742-1100-100-FB*	11.000	+.006 / -.000	11.000	10.500		1.000	10.125	10.500	1.500	1.625	1.750	0.377	505.06
75-1742-1150-100-FB*	11.500	+.006 / -.000	11.500	11.000		1.000	10.625	11.000	1.500	1.625	1.750	0.377	530.30
75-1742-1200-100-FB*	12.000	+.006 / -.000	12.000	11.500		1.000	11.125	11.500	1.500	1.625	1.750	0.377	556.78
75-1742-1250-100-FB*	12.500	+.006 / -.000	12.500	12.000		1.000	11.625	12.000	1.500	1.625	1.750	0.377	584.64
75-1742-1350-100-FB*	13.500	+.006 / -.000	13.500	13.000		1.000	12.625	13.000	1.500	1.625	1.750	0.377	643.09
75-1742-1450-100-FB*	14.500	+.006 / -.000	14.500	14.000		1.000	13.625	14.000	1.500	1.625	1.750	0.377	707.42

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

	STD VEE PACKING	E	2
	STD VEE SETS	E	17
	MV6225	E	20
	HYDROLOCK V. SET	E	21
	GUIDELOCKS	E	24
	VEE COIL	E	25

Standard Vee Packing



Temperature: -40/250F [-40/121C] **Pressure:**

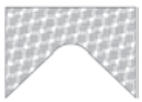
CROSS SECTION - PRESSURE RATING P.S.I. (INCLUDES MALE AND FEMALE ADAPTORS)											
NO. VEES	**5/32**	**3/16**	**1/4**	**5/16**	**3/8**	**7/16**	**1/2**	**5/8**	**3/4**	**7/8**	**1**
2	250	250	250	250	250	250	250	250	250	250	250
3	500	500	500	500	500	500	500	500	500	500	500
4	3000	3000	3000	3000	3000	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

Make note that this is all for reference. Each packing vendor will have different specifications.

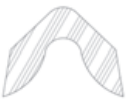
NF
NYLON FEMALE

FF
FABRIC FEMALE



BV
BUNA VEE

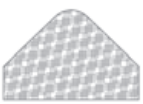
HV
HYTREL VEE



FV
FABRIC VEE

NM
NYLON MALE

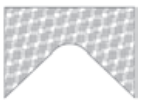
FM
FABRIC MALE



STANDARD VEE PACKING

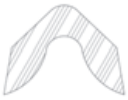
NF
-40 TO 250F
-40 TO 121C

FF
-40 TO 250F
-40 TO 121C



BV
-40 TO 250F
-40 TO 121C

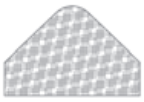
HV
-40 TO 300F
-40 TO 189C



FV
-40 TO 250F
-40 TO 121C

NM
-40 TO 250F
-40 TO 121C

FM
-40 TO 250F
-40 TO 121C



Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0025000625FF*	0.250	0.625	0.187	2.25
V0025000625FM	0.250	0.625	0.187	2.25
V0025000625FV	0.250	0.625	0.187	2.25
V0025000750FF*	0.250	0.750	0.250	3.19
V0025000750FM	0.250	0.750	0.250	3.19
V0025000750FV*	0.250	0.750	0.250	3.19
V0037500625BV*	0.375	0.625	0.125	2.93
V0037500625FF*	0.375	0.625	0.125	2.93
V0037500625FM	0.375	0.625	0.125	2.93
V0037500625FV	0.375	0.625	0.125	2.93
V0037500750BV	0.375	0.750	0.187	2.76
V0037500750FF	0.375	0.750	0.187	2.76
V0037500750FM	0.375	0.750	0.187	2.76
V0037500750FV	0.375	0.750	0.187	2.76
V0037500875FF	0.375	0.875	0.250	2.05
V0037500875FM*	0.375	0.875	0.250	2.05
V0037500875FV	0.375	0.875	0.250	2.05
V0037500937FF*	0.375	0.937	0.281	2.29
V0037500937FM*	0.375	0.937	0.281	2.29
V0037500937FV*	0.375	0.937	0.281	2.29
V0043700812BV	0.437	0.812	0.187	4.00
V0043700812FF	0.437	0.812	0.187	4.00
V0043700812FM	0.437	0.812	0.187	4.00
V0043700812FV	0.437	0.812	0.187	4.00
V0050000875BV	0.500	0.875	0.187	1.84
V0050000875FF	0.500	0.875	0.187	1.84
V0050000875FM	0.500	0.875	0.187	1.84
V0050000875FV	0.500	0.875	0.187	1.84
V0050001000FV	0.500	1.000	0.250	2.11
V0050001000HV	0.500	1.000	0.250	2.11
V0050001000NF	0.500	1.000	0.250	2.11
V0050001000NM	0.500	1.000	0.250	2.11
V0050001125FF*	0.500	1.125	0.312	2.44
V0050001125FM*	0.500	1.125	0.312	2.44
V0050001125FV*	0.500	1.125	0.312	2.44
V0056200937FV	0.562	0.937	0.187	4.48
V0056200937HV*	0.562	0.937	0.187	4.48
V0056201062FF*	0.562	1.062	0.250	3.74
V0056201062FM*	0.562	1.062	0.250	3.74
V0056201062FV	0.562	1.062	0.250	3.74
V0062500875FF*	0.625	0.875	0.125	5.46
V0062500875FM*	0.625	0.875	0.125	5.46
V0062500875FV	0.625	0.875	0.125	5.46
V0062500937FF	0.625	0.937	0.156	13.47
V0062500937FM*	0.625	0.937	0.156	13.47
V0062500937FV	0.625	0.937	0.156	13.47
V0062501000BV*	0.625	1.000	0.187	1.97
V0062501000FV	0.625	1.000	0.187	1.97

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0062501000HV*	0.625	1.000	0.187	1.97
V0062501000NF	0.625	1.000	0.187	1.97
V0062501000NM	0.625	1.000	0.187	1.97
V0062501125BV	0.625	1.125	0.250	3.91
V0062501125FV	0.625	1.125	0.250	1.34
V0062501125HV	0.625	1.125	0.250	1.72
V0062501125NF	0.625	1.125	0.250	1.34
V0062501125NM	0.625	1.125	0.250	1.34
V0062501250FV	0.625	1.250	0.312	3.09
V0062501250HV*	0.625	1.250	0.312	4.48
V0062501250NF*	0.625	1.250	0.312	2.73
V0062501250NM*	0.625	1.250	0.312	2.90
V0068701187FF	0.687	1.187	0.250	2.27
V0068701187FM	0.687	1.187	0.250	2.27
V0068701187FV	0.687	1.187	0.250	3.15
V0075001125FV	0.750	1.125	0.187	2.97
V0075001125HV	0.750	1.125	0.187	2.97
V0075001125NF	0.750	1.125	0.187	2.97
V0075001125NM	0.750	1.125	0.187	2.97
V0075001187FV	0.750	1.187	0.218	6.39
V0075001250BV	0.750	1.250	0.250	3.53
V0075001250FF*	0.750	1.250	0.250	1.46
V0075001250FM	0.750	1.250	0.250	1.49
V0075001250FV	0.750	1.250	0.250	1.34
V0075001250NF	0.750	1.250	0.250	1.34
V0075001250NM	0.750	1.250	0.250	1.34
V0075001375BV	0.750	1.375	0.312	4.84
V0075001375FF	0.750	1.375	0.312	4.48
V0075001375FM	0.750	1.375	0.312	4.48
V0075001375FV	0.750	1.375	0.312	3.51
V0075001375NF	0.750	1.375	0.312	4.48
V0075001375NM	0.750	1.375	0.312	4.48
V0075001500FF	0.750	1.500	0.375	3.12
V0075001500FM	0.750	1.500	0.375	3.11
V0075001500FV	0.750	1.500	0.375	2.89
V0081201312FF	0.812	1.312	0.250	2.31
V0081201312FM	0.812	1.312	0.250	2.31
V0081201312FV	0.812	1.312	0.250	2.31
V0081201312HV	0.812	1.312	0.250	2.31
V0081201312NF	0.812	1.312	0.250	2.31
V0081201312NM	0.812	1.312	0.250	2.31
V0087501250FV	0.875	1.250	0.187	1.48
V0087501250HV	0.875	1.250	0.187	4.23
V0087501250NF	0.875	1.250	0.187	1.48
V0087501250NM	0.875	1.250	0.187	1.48
V0087501375FV	0.875	1.375	0.250	2.24
V0087501375HV	0.875	1.375	0.250	2.18
V0087501375NF	0.875	1.375	0.250	2.18

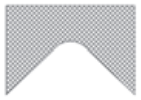
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

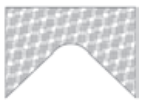
Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0087501375NM	0.875	1.375	0.250	2.18
V0087501500FF*	0.875	1.500	0.312	2.59
V0087501500FM*	0.875	1.500	0.312	2.59
V0087501500FV	0.875	1.500	0.312	2.59
V0087501500NF	0.875	1.500	0.312	3.02
V0087501500NM	0.875	1.500	0.312	3.02
V0087501625FF*	0.875	1.625	0.375	4.32
V0087501625FM*	0.875	1.625	0.375	4.32
V0087501625FV	0.875	1.625	0.375	4.32
V0093701437FF	0.937	1.437	0.250	5.81
V0093701437FM	0.937	1.437	0.250	5.81
V0093701437FV	0.937	1.437	0.250	5.81
V0100001375FV	1.000	1.375	0.187	2.12
V0100001375HV	1.000	1.375	0.187	2.12
V0100001375NF	1.000	1.375	0.187	2.12
V0100001375NM	1.000	1.375	0.187	2.12
V0100001500BV	1.000	1.500	0.250	3.38
V0100001500FM	1.000	1.500	0.250	1.55
V0100001500FV	1.000	1.500	0.250	1.34
V0100001500HV	1.000	1.500	0.250	1.52
V0100001500NF	1.000	1.500	0.250	1.34
V0100001500NM	1.000	1.500	0.250	1.34
V0100001625BV	1.000	1.625	0.312	3.81
V0100001625FF	1.000	1.625	0.312	2.63
V0100001625FM	1.000	1.625	0.312	2.63
V0100001625FV	1.000	1.625	0.312	3.28
V0100001750FV	1.000	1.750	0.375	5.89
V0100001750HV	1.000	1.750	0.375	3.65
V0100001750NF	1.000	1.750	0.375	6.68
V0100001750NM	1.000	1.750	0.375	6.68
V0100002000FV*	1.000	2.000	0.500	7.09
V0100002000NF*	1.000	2.000	0.500	7.09
V0100002000NM*	1.000	2.000	0.500	7.09
V0106201562FF*	1.062	1.562	0.250	4.71
V0106201562FM*	1.062	1.562	0.250	4.71
V0106201562FV*	1.062	1.562	0.250	4.71
V0112501500FF*	1.125	1.500	0.187	2.97
V0112501500FM*	1.125	1.500	0.187	2.97
V0112501500FV	1.125	1.500	0.187	2.97
V0112501500NF	1.125	1.500	0.187	2.97
V0112501500NM	1.125	1.500	0.187	2.97
V0112501625BV	1.125	1.625	0.250	2.74
V0112501625FF	1.125	1.625	0.250	1.83
V0112501625FV	1.125	1.625	0.250	1.36
V0112501625NF	1.125	1.625	0.250	1.36
V0112501625NM	1.125	1.625	0.250	1.36
V0112501750FV	1.125	1.750	0.312	2.67
V0112501750NF	1.125	1.750	0.312	2.67

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0112501750NM	1.125	1.750	0.312	2.67
V0112501875FV	1.125	1.875	0.375	4.38
V0112501875NF*	1.125	1.875	0.375	4.38
V0112501875NM*	1.125	1.875	0.375	4.38
V0118701562FV	1.187	1.562	0.187	3.27
V0118701562NF	1.187	1.562	0.187	3.27
V0118701562NM	1.187	1.562	0.187	3.27
V0118701687FF	1.187	1.687	0.250	3.07
V0118701687FM	1.187	1.687	0.250	3.07
V0118701687FV	1.187	1.687	0.250	3.07
V0125001625FV	1.250	1.625	0.187	2.97
V0125001625NF	1.250	1.625	0.187	2.97
V0125001625NM	1.250	1.625	0.187	2.97
V0125001750BV	1.250	1.750	0.250	3.48
V0125001750FF	1.250	1.750	0.250	2.00
V0125001750FM	1.250	1.750	0.250	2.00
V0125001750FV	1.250	1.750	0.250	1.36
V0125001750HV	1.250	1.750	0.250	1.36
V0125001750NF	1.250	1.750	0.250	1.36
V0125001750NM	1.250	1.750	0.250	1.36
V0125001875BV	1.250	1.875	0.312	4.36
V0125001875FF	1.250	1.875	0.312	3.15
V0125001875FM	1.250	1.875	0.312	3.15
V0125001875FV	1.250	1.875	0.312	2.16
V0125001875NF	1.250	1.875	0.312	2.37
V0125001875NM	1.250	1.875	0.312	3.09
V0125002000FV	1.250	2.000	0.375	2.27
V0125002000HV	1.250	2.000	0.375	2.27
V0125002000NF	1.250	2.000	0.375	2.27
V0125002000NM	1.250	2.000	0.375	2.27
V0125002125FV	1.250	2.125	0.437	3.87
V0125002125NF*	1.250	2.125	0.437	3.87
V0125002125NM*	1.250	2.125	0.437	3.87
V0125002250FV	1.250	2.250	0.500	4.22
V0125002250NF	1.250	2.250	0.500	4.22
V0125002250NM	1.250	2.250	0.500	4.22
V0125002500FF	1.250	2.500	0.625	7.61
V0125002500FM*	1.250	2.500	0.625	7.61
V0125002500FV	1.250	2.500	0.625	7.61
V0131201812FF	1.312	1.812	0.250	2.56
V0131201812FM	1.312	1.812	0.250	2.56
V0131201812FV	1.312	1.812	0.250	3.62
V0131202062FF	1.312	2.062	0.375	5.58
V0131202062FM	1.312	2.062	0.375	5.58
V0131202062FV	1.312	2.062	0.375	5.58
V0137501750FF*	1.375	1.750	0.187	2.19
V0137501750FM*	1.375	1.750	0.187	2.19
V0137501750FV	1.375	1.750	0.187	2.19

NF
NYLON FEMALE

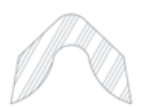


FF
FABRIC FEMALE



BV
BUNA VEE

HV
HYTREL VEE



FV
FABRIC VEE

NM
NYLON MALE

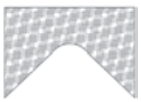
FM
FABRIC MALE

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

STANDARD VEE PACKING

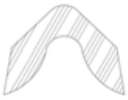
NF
-40 TO 250F
-40 TO 121C

FF
-40 TO 250F
-40 TO 121C



BV
-40 TO 250F
-40 TO 121C

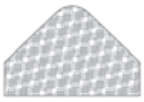
HV
-40 TO 300F
-40 TO 189C



FV
-40 TO 250F
-40 TO 121C

NM
-40 TO 250F
-40 TO 121C

FM
-40 TO 250F
-40 TO 121C



Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0137501750NF	1.375	1.750	0.187	2.19
V0137501750NM	1.375	1.750	0.187	2.19
V0137501875BV	1.375	1.875	0.250	4.19
V0137501875FF	1.375	1.875	0.250	1.92
V0137501875FM	1.375	1.875	0.250	1.92
V0137501875FV	1.375	1.875	0.250	1.91
V0137501875HV	1.375	1.875	0.250	1.91
V0137501875NF	1.375	1.875	0.250	1.91
V0137501875NM	1.375	1.875	0.250	1.91
V0137502000FM	1.375	2.000	0.312	2.78
V0137502000FV	1.375	2.000	0.312	2.06
V0137502000HV	1.375	2.000	0.312	2.78
V0137502000NF	1.375	2.000	0.312	2.86
V0137502000NM	1.375	2.000	0.312	2.86
V0137502125FV	1.375	2.125	0.375	4.57
V0137502125NF	1.375	2.125	0.375	4.43
V0137502125NM	1.375	2.125	0.375	4.57
V0137502250FV	1.375	2.250	0.437	5.02
V0137502250NF	1.375	2.250	0.437	5.02
V0137502250NM	1.375	2.250	0.437	5.02
V0143701937FF	1.437	1.937	0.250	3.14
V0143701937FM	1.437	1.937	0.250	3.14
V0143701937FV	1.437	1.937	0.250	3.14
V0143702000FV*	1.437	2.000	0.281	11.46
V0143702062FF*	1.437	2.062	0.312	4.04
V0143702062FM*	1.437	2.062	0.312	4.04
V0143702062FV*	1.437	2.062	0.312	4.04
V0150001875FV	1.500	1.875	0.187	3.06
V0150001875NF	1.500	1.875	0.187	3.06
V0150001875NM	1.500	1.875	0.187	3.06
V0150002000FF	1.500	2.000	0.250	2.25
V0150002000FM	1.500	2.000	0.250	2.25
V0150002000FV	1.500	2.000	0.250	1.45
V0150002000HV	1.500	2.000	0.250	1.45
V0150002000NF	1.500	2.000	0.250	1.45
V0150002000NM	1.500	2.000	0.250	1.45
V0150002125FF	1.500	2.125	0.312	2.84
V0150002125FM	1.500	2.125	0.312	2.84
V0150002125FV	1.500	2.125	0.312	1.86
V0150002125HV	1.500	2.125	0.312	2.84
V0150002125NF	1.500	2.125	0.312	1.86
V0150002125NM	1.500	2.125	0.312	1.86
V0150002250FF	1.500	2.250	0.375	3.41
V0150002250FM	1.500	2.250	0.375	3.41
V0150002250FV	1.500	2.250	0.375	2.47
V0150002250HV	1.500	2.250	0.375	3.41
V0150002250NF	1.500	2.250	0.375	2.47
V0150002250NM	1.500	2.250	0.375	2.47

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0150002375FV	1.500	2.375	0.437	5.51
V0150002375NF	1.500	2.375	0.437	5.51
V0150002375NM	1.500	2.375	0.437	5.51
V0150002500FV	1.500	2.500	0.500	3.56
V0150002500HV	1.500	2.500	0.500	3.56
V0150002500NF	1.500	2.500	0.500	3.56
V0150002500NM	1.500	2.500	0.500	3.56
V0162502000BV*	1.625	2.000	0.187	5.07
V0162502000FF	1.625	2.000	0.187	5.07
V0162502000FM	1.625	2.000	0.187	5.07
V0162502000FV	1.625	2.000	0.187	5.07
V0162502125BV	1.625	2.125	0.250	5.90
V0162502125FV	1.625	2.125	0.250	1.61
V0162502125HV	1.625	2.125	0.250	1.61
V0162502125NF	1.625	2.125	0.250	1.61
V0162502125NM	1.625	2.125	0.250	1.61
V0162502250FV	1.625	2.250	0.312	2.96
V0162502250HV	1.625	2.250	0.312	5.26
V0162502250NF	1.625	2.250	0.312	2.96
V0162502250NM	1.625	2.250	0.312	2.96
V0162502375BV	1.625	2.375	0.375	6.41
V0162502375FF	1.625	2.375	0.375	4.99
V0162502375FV*	1.625	2.375	0.375	4.99
V0162502375NF*	1.625	2.375	0.375	4.99
V0162502375NM	1.625	2.375	0.375	4.99
V0175002125FV	1.750	2.125	0.187	2.98
V0175002125NF	1.750	2.125	0.187	2.98
V0175002125NM	1.750	2.125	0.187	2.98
V0175002250FV	1.750	2.250	0.250	1.64
V0175002250HV	1.750	2.250	0.250	1.64
V0175002250NF	1.750	2.250	0.250	1.64
V0175002250NM	1.750	2.250	0.250	1.64
V0175002265FV	1.750	2.265	0.258	3.94
V0175002265HV*	1.750	2.265	0.258	3.94
V0175002265NF	1.750	2.265	0.258	3.94
V0175002265NM	1.750	2.265	0.258	3.94
V0175002375FV	1.750	2.375	0.312	2.11
V0175002375HV	1.750	2.375	0.312	2.11
V0175002375NF	1.750	2.375	0.312	2.11
V0175002375NM	1.750	2.375	0.312	2.11
V0175002500FV	1.750	2.500	0.375	2.11
V0175002500HV	1.750	2.500	0.375	3.79
V0175002500NF	1.750	2.500	0.375	2.11
V0175002500NM	1.750	2.500	0.375	2.11
V0175002750FV	1.750	2.750	0.500	4.76
V0175002750HV	1.750	2.750	0.500	6.64
V0175002750NF	1.750	2.750	0.500	4.76
V0175002750NM	1.750	2.750	0.500	4.76

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

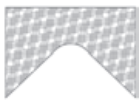
STANDARD VEE PACKING

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0187502375FV	1.875	2.375	0.250	2.29
V0187502375HV	1.875	2.375	0.250	3.87
V0187502375NF	1.875	2.375	0.250	2.29
V0187502375NM	1.875	2.375	0.250	2.29
V0187502500BV	1.875	2.500	0.312	5.66
V0187502500FF	1.875	2.500	0.312	3.30
V0187502500FM	1.875	2.500	0.312	3.30
V0187502500FV	1.875	2.500	0.312	3.30
V0187502500NF	1.875	2.500	0.312	3.30
V0187502625FV	1.875	2.625	0.375	4.08
V0187502625NF*	1.875	2.625	0.375	4.08
V0187502625NM*	1.875	2.625	0.375	4.08
V0193702687FF	1.937	2.687	0.375	4.08
V0193702687FM	1.937	2.687	0.375	4.08
V0193702687FV	1.937	2.687	0.375	4.08
V0199502525FV*	1.995	2.525	0.265	0.00
V0199502525HV*	1.995	2.525	0.265	3.55
V0199502525NF*	1.995	2.525	0.265	3.55
V0199502525NM*	1.995	2.525	0.265	3.55
V0200002375BV*	2.000	2.375	0.187	3.88
V0200002375FF	2.000	2.375	0.187	3.88
V0200002375FM*	2.000	2.375	0.187	3.88
V0200002375FV	2.000	2.375	0.187	3.88
V0200002375HV*	2.000	2.375	0.187	3.88
V0200002375NF	2.000	2.375	0.187	3.88
V0200002375NM	2.000	2.375	0.187	3.88
V0200002500FF	2.000	2.500	0.250	2.11
V0200002500FV	2.000	2.500	0.250	1.58
V0200002500HV	2.000	2.500	0.250	1.58
V0200002500NF	2.000	2.500	0.250	1.58
V0200002500NM	2.000	2.500	0.250	1.58
V0200002625BV	2.000	2.625	0.312	4.96
V0200002625FF	2.000	2.625	0.312	3.04
V0200002625FM	2.000	2.625	0.312	3.04
V0200002625FV	2.000	2.625	0.312	2.17
V0200002625HV	2.000	2.625	0.312	3.03
V0200002625NF	2.000	2.625	0.312	2.17
V0200002625NM	2.000	2.625	0.312	2.17
V0200002687BV	2.000	2.687	0.344	10.42
V0200002687FF*	2.000	2.687	0.344	10.81
V0200002687FM*	2.000	2.687	0.344	10.81
V0200002687FV	2.000	2.687	0.344	5.31
V0200002750BV	2.000	2.750	0.375	10.70
V0200002750FF	2.000	2.750	0.375	4.40
V0200002750FM	2.000	2.750	0.375	4.40
V0200002750FV	2.000	2.750	0.375	2.80
V0200002750HV	2.000	2.750	0.375	2.80
V0200002750NF	2.000	2.750	0.375	2.80

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0200002750NM	2.000	2.750	0.375	2.80
V0200002875FF	2.000	2.875	0.437	13.79
V0200002875FM*	2.000	2.875	0.437	13.79
V0200002875FV*	2.000	2.875	0.437	13.79
V0200003000FV	2.000	3.000	0.500	7.03
V0200003000NF	2.000	3.000	0.500	7.03
V0200003000NM	2.000	3.000	0.500	7.03
V0212502625FF	2.125	2.625	0.250	3.16
V0212502625FM	2.125	2.625	0.250	3.16
V0212502625FV	2.125	2.625	0.250	3.16
V0212502625HV	2.125	2.625	0.250	3.16
V0212502750BV	2.125	2.750	0.312	5.64
V0212502750FF	2.125	2.750	0.312	3.40
V0212502750FM	2.125	2.750	0.312	3.40
V0212502750FV	2.125	2.750	0.312	3.40
V0212502750HV	2.125	2.750	0.312	3.40
V0212502750NF	2.125	2.750	0.312	3.40
V0212502750NM	2.125	2.750	0.312	3.40
V0212502875BV*	2.125	2.875	0.375	5.46
V0212502875FV	2.125	2.875	0.375	5.46
V0212502875NF	2.125	2.875	0.375	5.46
V0212502875NM	2.125	2.875	0.375	5.46
V0212503000FF	2.125	3.000	0.437	6.11
V0212503000FM	2.125	3.000	0.437	6.11
V0212503000FV	2.125	3.000	0.437	6.11
V0212503125FV	2.125	3.125	0.500	11.30
V0218702937FF	2.187	2.937	0.375	3.74
V0218702937FM	2.187	2.937	0.375	3.74
V0218702937FV	2.187	2.937	0.375	3.74
V0220002700FV	2.200	2.700	0.250	2.69
V0220002700HV	2.200	2.700	0.250	2.69
V0220002700NF	2.200	2.700	0.250	2.69
V0220002700NM	2.200	2.700	0.250	2.69
V0220002765FV*	2.200	2.765	0.283	4.98
V0220002765NF*	2.200	2.765	0.283	4.98
V0220002765NM*	2.200	2.765	0.283	4.98
V0225002750FV	2.250	2.750	0.250	2.69
V0225002750HV	2.250	2.750	0.250	2.69
V0225002750NF	2.250	2.750	0.250	2.69
V0225002750NM	2.250	2.750	0.250	2.69
V0225002875FF	2.250	2.875	0.312	4.23
V0225002875FM	2.250	2.875	0.312	4.23
V0225002875FV	2.250	2.875	0.312	4.24
V0225002875HV	2.250	2.875	0.312	4.24
V0225002875NF	2.250	2.875	0.312	4.24
V0225002875NM	2.250	2.875	0.312	4.24
V0225003000BV	2.250	3.000	0.375	15.38
V0225003000FF	2.250	3.000	0.375	4.31

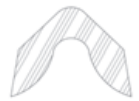
NF
NYLON FEMALE

FF
FABRIC FEMALE



BV
BUNA VEE

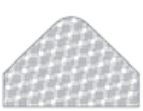
HV
HYTREL VEE



FV
FABRIC VEE

NM
NYLON MALE

FM
FABRIC MALE

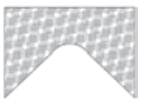


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

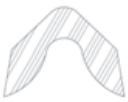
NF
-40 TO 250F
-40 TO 121C

FF
-40 TO 250F
-40 TO 121C



BV
-40 TO 250F
-40 TO 121C

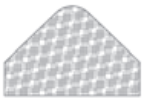
HV
-40 TO 300F
-40 TO 189C



FV
-40 TO 250F
-40 TO 121C

NM
-40 TO 250F
-40 TO 121C

FM
-40 TO 250F
-40 TO 121C



Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0225003000FM	2.250	3.000	0.375	4.31
V0225003000FV	2.250	3.000	0.375	3.07
V0225003000HV	2.250	3.000	0.375	5.74
V0225003000NF	2.250	3.000	0.375	3.07
V0225003000NM	2.250	3.000	0.375	3.07
V0225003125FV	2.250	3.125	0.437	9.85
V0225003125NF	2.250	3.125	0.437	9.85
V0225003125NM	2.250	3.125	0.437	9.85
V0225003250FF	2.250	3.250	0.500	7.03
V0225003250FM	2.250	3.250	0.500	7.03
V0225003250FV	2.250	3.250	0.500	7.03
V0227503025FV	2.275	3.025	0.375	6.11
V0227503025HV*	2.275	3.025	0.375	6.11
V0227503025NF	2.275	3.025	0.375	6.11
V0227503025NM	2.275	3.025	0.375	6.11
V0237502875FF*	2.375	2.875	0.250	5.39
V0237502875FM*	2.375	2.875	0.250	5.39
V0237502875FV	2.375	2.875	0.250	5.39
V0237502875HV*	2.375	2.875	0.250	5.39
V0237502875NF	2.375	2.875	0.250	5.39
V0237502875NM	2.375	2.875	0.250	5.39
V0237503000BV*	2.375	3.000	0.312	4.31
V0237503000FF*	2.375	3.000	0.312	4.31
V0237503000FV	2.375	3.000	0.312	4.31
V0237503000NF	2.375	3.000	0.312	4.31
V0237503000NM	2.375	3.000	0.312	4.31
V0237503125FV	2.375	3.125	0.375	4.83
V0237503125NF*	2.375	3.125	0.375	4.83
V0237503125NM	2.375	3.125	0.375	4.83
V0237503375FF*	2.375	3.375	0.500	7.00
V0237503375FM*	2.375	3.375	0.500	7.00
V0237503375FV	2.375	3.375	0.500	7.00
V0243703187FV*	2.437	3.187	0.375	15.18
V0243703437FF	2.437	3.437	0.500	10.05
V0243703437FM	2.437	3.437	0.500	10.05
V0243703437FV*	2.437	3.437	0.500	10.02
V0245003000FV*	2.450	3.000	0.275	3.81
V0245003000NF*	2.450	3.000	0.275	3.81
V0245003000NM*	2.450	3.000	0.275	3.81
V0245003020FV	2.450	3.020	0.285	4.49
V0245003020NF	2.450	3.020	0.285	4.49
V0245003020NM	2.450	3.020	0.285	4.49
V0250002875FV	2.500	2.875	0.187	4.35
V0250002875HV	2.500	2.875	0.187	4.34
V0250002875NF	2.500	2.875	0.187	4.35
V0250002875NM	2.500	2.875	0.187	4.35
V0250003000BV	2.500	3.000	0.250	3.62
V0250003000FF*	2.500	3.000	0.250	1.96

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0250003000FV	2.500	3.000	0.250	1.96
V0250003000HV	2.500	3.000	0.250	1.96
V0250003000NF	2.500	3.000	0.250	1.96
V0250003000NM	2.500	3.000	0.250	1.96
V0250003125BV	2.500	3.125	0.312	4.58
V0250003125FF	2.500	3.125	0.312	4.06
V0250003125FM	2.500	3.125	0.312	4.06
V0250003125FV	2.500	3.125	0.312	2.83
V0250003125HV	2.500	3.125	0.312	2.83
V0250003125NF	2.500	3.125	0.312	2.83
V0250003125NM	2.500	3.125	0.312	2.83
V0250003250FF	2.500	3.250	0.375	4.73
V0250003250FM	2.500	3.250	0.375	4.73
V0250003250FV	2.500	3.250	0.375	3.51
V0250003250HV	2.500	3.250	0.375	3.51
V0250003250NF	2.500	3.250	0.375	3.51
V0250003250NM	2.500	3.250	0.375	3.51
V0250003375FF	2.500	3.375	0.437	17.68
V0250003375FM*	2.500	3.375	0.437	17.68
V0250003375FV*	2.500	3.375	0.437	17.68
V0250003500FF	2.500	3.500	0.500	7.04
V0250003500FV	2.500	3.500	0.500	5.24
V0250003500NF	2.500	3.500	0.500	5.24
V0250003500NM	2.500	3.500	0.500	5.24
V0250003750FV	2.500	3.750	0.625	15.65
V0258003110FV	2.580	3.110	0.265	3.81
V0258003110NF	2.580	3.110	0.265	3.81
V0258003110NM	2.580	3.110	0.265	3.81
V0262503125FF*	2.625	3.125	0.250	6.75
V0262503125FM*	2.625	3.125	0.250	6.75
V0262503125FV*	2.625	3.125	0.250	6.75
V0262503250FV	2.625	3.250	0.312	3.85
V0262503250HV*	2.625	3.250	0.312	3.85
V0262503250NF	2.625	3.250	0.312	4.50
V0262503250NM	2.625	3.250	0.312	4.50
V0262503375FV	2.625	3.375	0.375	5.68
V0262503375HV*	2.625	3.375	0.375	5.68
V0262503375NF	2.625	3.375	0.375	5.68
V0262503375NM	2.625	3.375	0.375	5.68
V0262503500BV*	2.625	3.500	0.437	11.42
V0270003450FV	2.700	3.450	0.375	5.49
V0270003450HV*	2.700	3.450	0.375	5.49
V0270003450NF	2.700	3.450	0.375	5.49
V0270003450NM	2.700	3.450	0.375	5.49
V0275003250FV	2.750	3.250	0.250	1.91
V0275003250HV	2.750	3.250	0.250	1.91
V0275003250NF	2.750	3.250	0.250	1.91
V0275003250NM	2.750	3.250	0.250	1.91

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

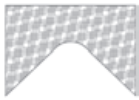
STANDARD VEE PACKING

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0275003375FV	2.750	3.375	0.312	2.94
V0275003375HV	2.750	3.375	0.312	3.63
V0275003375NF	2.750	3.375	0.312	2.94
V0275003375NM	2.750	3.375	0.312	2.94
V0275003500FF	2.750	3.500	0.375	5.26
V0275003500FM	2.750	3.500	0.375	5.26
V0275003500FV	2.750	3.500	0.375	3.89
V0275003500HV	2.750	3.500	0.375	3.89
V0275003500NF	2.750	3.500	0.375	3.89
V0275003500NM	2.750	3.500	0.375	3.89
V0275003530FV*	2.750	3.530	0.390	5.31
V0275003750BV	2.750	3.750	0.500	10.54
V0275003750FF	2.750	3.750	0.500	10.54
V0275003750FM	2.750	3.750	0.500	10.54
V0275003750FV	2.750	3.750	0.500	8.55
V0275003750HV*	2.750	3.750	0.500	12.61
V0277503525FV*	2.775	3.525	0.375	6.64
V0277503525HV*	2.775	3.525	0.375	6.64
V0277503525NF*	2.775	3.525	0.375	6.64
V0277503525NM*	2.775	3.525	0.375	6.64
V0287503375FV*	2.875	3.375	0.250	4.39
V0287503375NF	2.875	3.375	0.250	4.39
V0287503375NM*	2.875	3.375	0.250	4.39
V0287503500BV	2.875	3.500	0.312	7.08
V0287503500FF	2.875	3.500	0.312	7.08
V0287503500FM	2.875	3.500	0.312	7.08
V0287503500FV	2.875	3.500	0.312	7.08
V0287503625FF	2.875	3.625	0.375	7.30
V0287503625FM	2.875	3.625	0.375	7.30
V0287503625FV	2.875	3.625	0.375	7.30
V0295003450FV	2.950	3.450	0.250	3.83
V0295003450HV	2.950	3.450	0.250	3.83
V0295003450NF	2.950	3.450	0.250	3.83
V0295003450NM	2.950	3.450	0.250	3.83
V0295003500FV	2.950	3.500	0.275	3.69
V0295003500HV*	2.950	3.500	0.275	3.69
V0295003500NF	2.950	3.500	0.275	3.69
V0295003500NM	2.950	3.500	0.275	3.69
V0300003500FM	3.000	3.500	0.250	2.85
V0300003500FV	3.000	3.500	0.250	2.00
V0300003500HV	3.000	3.500	0.250	2.00
V0300003500NF	3.000	3.500	0.250	2.00
V0300003500NM	3.000	3.500	0.250	2.00
V0300003515FV*	3.000	3.515	0.258	3.15
V0300003520FV	3.000	3.520	0.260	4.97
V0300003520NF	3.000	3.520	0.260	4.97
V0300003520NM	3.000	3.520	0.260	4.97
V0300003625BV*	3.000	3.625	0.312	5.36

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0300003625FF*	3.000	3.625	0.312	4.20
V0300003625FM*	3.000	3.625	0.312	4.20
V0300003625FV	3.000	3.625	0.312	4.20
V0300003625HV	3.000	3.625	0.312	4.20
V0300003625NF	3.000	3.625	0.312	4.20
V0300003625NM	3.000	3.625	0.312	4.20
V0300003750BV	3.000	3.750	0.375	10.96
V0300003750FF	3.000	3.750	0.375	5.73
V0300003750FM	3.000	3.750	0.375	5.73
V0300003750FV	3.000	3.750	0.375	4.59
V0300003750HV	3.000	3.750	0.375	4.59
V0300003750NF	3.000	3.750	0.375	4.59
V0300003750NM	3.000	3.750	0.375	4.59
V0300004000FF*	3.000	4.000	0.500	8.04
V0300004000FM	3.000	4.000	0.500	8.04
V0300004000FV	3.000	4.000	0.500	8.04
V0300004000HV	3.000	4.000	0.500	8.04
V0300004000NF	3.000	4.000	0.500	8.04
V0300004000NM	3.000	4.000	0.500	8.04
V0312503500FV*	3.125	3.500	0.187	3.27
V0312503500HV	3.125	3.500	0.187	3.27
V0312503500NF	3.125	3.500	0.187	3.27
V0312503500NM	3.125	3.500	0.187	3.27
V0312503625FF	3.125	3.625	0.250	3.52
V0312503625FM	3.125	3.625	0.250	3.52
V0312503625FV*	3.125	3.625	0.250	3.52
V0312503750BV*	3.125	3.750	0.312	7.04
V0312503750FF*	3.125	3.750	0.312	7.04
V0312503750FM*	3.125	3.750	0.312	7.04
V0312503750FV*	3.125	3.750	0.312	7.04
V0312503875FV	3.125	3.875	0.375	7.20
V0312503875HV*	3.125	3.875	0.375	7.20
V0312503875NF	3.125	3.875	0.375	7.20
V0312503875NM	3.125	3.875	0.375	7.20
V0312504000FV	3.125	4.000	0.437	8.16
V0312504000NF	3.125	4.000	0.437	8.16
V0312504000NM	3.125	4.000	0.437	8.16
V0312504125FF*	3.125	4.125	0.500	21.09
V0312504125FM*	3.125	4.125	0.500	21.09
V0312504125FV*	3.125	4.125	0.500	21.09
V0318703687FV	3.187	3.687	0.250	3.48
V0318703687NF	3.187	3.687	0.250	3.48
V0318703687NM	3.187	3.687	0.250	3.48
V0318703937FF*	3.187	3.937	0.375	8.41
V0318703937FM*	3.187	3.937	0.375	8.41
V0318703937FV*	3.187	3.937	0.375	8.41
V0320003770FV	3.200	3.770	0.285	8.79
V0320003770NF	3.200	3.770	0.285	8.79

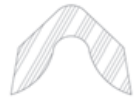
NF
NYLON FEMALE

FF
FABRIC FEMALE



BV
BUNA VEE

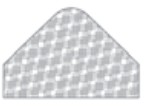
HV
HYTREL VEE



FV
FABRIC VEE

NM
NYLON MALE

FM
FABRIC MALE

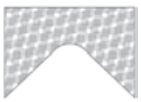


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

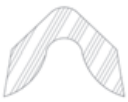
NF
-40 TO 250F
-40 TO 121C

FF
-40 TO 250F
-40 TO 121C



BV
-40 TO 250F
-40 TO 121C

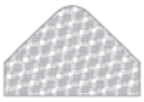
HV
-40 TO 300F
-40 TO 189C



FV
-40 TO 250F
-40 TO 121C

NM
-40 TO 250F
-40 TO 121C

FM
-40 TO 250F
-40 TO 121C



Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0320003770NM	3.200	3.770	0.285	8.79
V0325003625BV	3.250	3.625	0.187	3.36
V0325003625FV	3.250	3.625	0.187	2.19
V0325003625NF	3.250	3.625	0.187	2.19
V0325003625NM	3.250	3.625	0.187	2.19
V0325003750BV*	3.250	3.750	0.250	5.98
V0325003750FF*	3.250	3.750	0.250	5.98
V0325003750FM*	3.250	3.750	0.250	5.98
V0325003750FV	3.250	3.750	0.250	2.29
V0325003750HV	3.250	3.750	0.250	4.31
V0325003750NF	3.250	3.750	0.250	2.29
V0325003750NM	3.250	3.750	0.250	2.29
V0325003875FV	3.250	3.875	0.312	7.51
V0325003875NF	3.250	3.875	0.312	7.51
V0325003875NM	3.250	3.875	0.312	7.51
V0325004000FF	3.250	4.000	0.375	7.38
V0325004000FM	3.250	4.000	0.375	7.38
V0325004000FV	3.250	4.000	0.375	4.57
V0325004000HV	3.250	4.000	0.375	7.25
V0325004000NF	3.250	4.000	0.375	4.57
V0325004000NM	3.250	4.000	0.375	4.57
V0325004020FV	3.250	4.020	0.385	7.74
V0325004020NF	3.250	4.020	0.385	7.74
V0325004020NM	3.250	4.020	0.385	7.74
V0325004250FV	3.250	4.250	0.500	6.59
V0325004250HV*	3.250	4.250	0.500	6.59
V0325004250NF	3.250	4.250	0.500	6.59
V0325004250NM	3.250	4.250	0.500	6.59
V0325004500FF*	3.250	4.500	0.625	20.67
V0325004500FM*	3.250	4.500	0.625	20.67
V0325004500FV*	3.250	4.500	0.625	20.67
V0327504025FV*	3.275	4.025	0.375	5.31
V0327504025HV*	3.275	4.025	0.375	5.31
V0327504025NF	3.275	4.025	0.375	5.31
V0327504025NM	3.275	4.025	0.375	5.31
V0337503875FV*	3.375	3.875	0.250	4.45
V0337503875HV*	3.375	3.875	0.250	4.45
V0337503875NF*	3.375	3.875	0.250	4.45
V0337503875NM*	3.375	3.875	0.250	4.45
V0337504000BV	3.375	4.000	0.312	6.06
V0337504000FF	3.375	4.000	0.312	4.53
V0337504000FM	3.375	4.000	0.312	4.53
V0337504000FV	3.375	4.000	0.312	4.53
V0337504000NF	3.375	4.000	0.312	4.53
V0337504125BV*	3.375	4.125	0.375	7.78
V0337504125FV	3.375	4.125	0.375	7.78
V0337504125NF	3.375	4.125	0.375	7.78
V0337504125NM	3.375	4.125	0.375	7.78

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0345004000FV*	3.450	4.000	0.275	4.62
V0345004000HV*	3.450	4.000	0.275	4.62
V0345004000NF*	3.450	4.000	0.275	4.62
V0345004000NM*	3.450	4.000	0.275	4.62
V0345004250FV	3.450	4.250	0.400	7.78
V0345004250HV*	3.450	4.250	0.400	7.78
V0345004250NF	3.450	4.250	0.400	7.78
V0345004250NM	3.450	4.250	0.400	7.78
V0350004000BV	3.500	4.000	0.250	7.05
V0350004000FF	3.500	4.000	0.250	2.86
V0350004000FM	3.500	4.000	0.250	2.86
V0350004000FV	3.500	4.000	0.250	2.38
V0350004000HV	3.500	4.000	0.250	2.38
V0350004000NF	3.500	4.000	0.250	2.38
V0350004000NM	3.500	4.000	0.250	2.38
V0350004125FF*	3.500	4.125	0.312	5.96
V0350004125FM*	3.500	4.125	0.312	6.65
V0350004125FV	3.500	4.125	0.312	4.77
V0350004125NF*	3.500	4.125	0.312	13.69
V0350004125NM*	3.500	4.125	0.312	10.24
V0350004250FV	3.500	4.250	0.375	4.34
V0350004250HV	3.500	4.250	0.375	5.65
V0350004250NF	3.500	4.250	0.375	4.34
V0350004250NM	3.500	4.250	0.375	4.34
V0350004500FF	3.500	4.500	0.500	7.36
V0350004500FM*	3.500	4.500	0.500	7.36
V0350004500FV	3.500	4.500	0.500	7.37
V0350004500HV	3.500	4.500	0.500	12.34
V0350004500NF	3.500	4.500	0.500	7.36
V0350004500NM	3.500	4.500	0.500	7.37
V0350005000FV	3.500	5.000	0.750	20.17
V0350005000NF*	3.500	5.000	0.750	20.17
V0350005000NM*	3.500	5.000	0.750	20.17
V0358004110FV	3.580	4.110	0.265	4.41
V0358004110HV	3.580	4.110	0.265	4.41
V0358004110NF	3.580	4.110	0.265	4.41
V0358004110NM	3.580	4.110	0.265	4.41
V0362504125FF*	3.625	4.125	0.250	4.75
V0362504125FM*	3.625	4.125	0.250	4.75
V0362504125FV	3.625	4.125	0.250	4.75
V0368704250FF	3.687	4.250	0.281	4.04
V0368704250FM	3.687	4.250	0.281	4.04
V0368704250FV	3.687	4.250	0.281	4.04
V0370004270FV	3.700	4.270	0.285	7.19
V0370004270HV	3.700	4.270	0.285	7.19
V0370004270NF	3.700	4.270	0.285	7.19
V0370004270NM	3.700	4.270	0.285	7.23
V0375004250FV	3.750	4.250	0.250	2.60

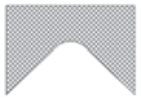
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

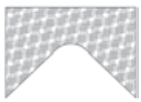
Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0375004250HV	3.750	4.250	0.250	3.20
V0375004250NF	3.750	4.250	0.250	2.60
V0375004250NM	3.750	4.250	0.250	2.60
V0375004375FV	3.750	4.375	0.312	6.54
V0375004375HV	3.750	4.375	0.312	6.53
V0375004375NF	3.750	4.375	0.312	6.54
V0375004375NM	3.750	4.375	0.312	6.54
V0375004500BV	3.750	4.500	0.375	10.36
V0375004500FV	3.750	4.500	0.375	5.23
V0375004500HV	3.750	4.500	0.375	5.23
V0375004500NF	3.750	4.500	0.375	5.23
V0375004500NM	3.750	4.500	0.375	5.23
V0375004520FV	3.750	4.520	0.385	8.60
V0375004520HV	3.750	4.520	0.385	8.60
V0375004520NF	3.750	4.520	0.385	8.60
V0375004520NM	3.750	4.520	0.385	8.60
V0375004750FF	3.750	4.750	0.500	10.76
V0375004750FM	3.750	4.750	0.500	10.76
V0375004750FV	3.750	4.750	0.500	10.76
V0377504525FV	3.775	4.525	0.375	8.82
V0377504525NF	3.775	4.525	0.375	8.82
V0377504525NM	3.775	4.525	0.375	8.82
V0387504375FV	3.875	4.375	0.250	5.08
V0387504375NF	3.875	4.375	0.250	5.08
V0387504375NM	3.875	4.375	0.250	5.08
V0387504500FV	3.875	4.500	0.312	7.25
V0387504500NF	3.875	4.500	0.312	7.25
V0387504500NM	3.875	4.500	0.312	7.25
V0395004500FV	3.950	4.500	0.275	5.27
V0395004500HV	3.950	4.500	0.275	5.27
V0395004500NF	3.950	4.500	0.275	5.27
V0395004500NM	3.950	4.500	0.275	5.27
V0395004750FF	3.950	4.750	0.400	8.02
V0395004750FM	3.950	4.750	0.400	8.02
V0395004750FV*	3.950	4.750	0.400	8.02
V0397004520FV	3.970	4.520	0.275	5.31
V0397004520HV*	3.970	4.520	0.275	5.31
V0397004520NF*	3.970	4.520	0.275	5.31
V0397004520NM	3.970	4.520	0.275	5.31
V0400004500FF	4.000	4.500	0.250	5.74
V0400004500FM	4.000	4.500	0.250	7.33
V0400004500FV	4.000	4.500	0.250	3.27
V0400004500HV	4.000	4.500	0.250	3.27
V0400004500NF	4.000	4.500	0.250	3.27
V0400004500NM	4.000	4.500	0.250	3.27
V0400004530FV	4.000	4.530	0.265	6.15
V0400004625FV	4.000	4.625	0.312	7.30
V0400004625NF	4.000	4.625	0.312	7.30

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0400004625NM	4.000	4.625	0.312	7.30
V0400004750FV	4.000	4.750	0.375	5.83
V0400004750HV	4.000	4.750	0.375	5.83
V0400004750NF	4.000	4.750	0.375	5.83
V0400004750NM	4.000	4.750	0.375	5.83
V0400004875FV	4.000	4.875	0.437	23.67
V0400004875HV	4.000	4.875	0.437	9.16
V0400004875NF	4.000	4.875	0.437	8.18
V0400004875NM	4.000	4.875	0.437	8.19
V0400005000FF	4.000	5.000	0.500	11.46
V0400005000FM	4.000	5.000	0.500	11.46
V0400005000FV	4.000	5.000	0.500	11.46
V0400005000HV	4.000	5.000	0.500	11.46
V0400005000NF	4.000	5.000	0.500	11.46
V0400005000NM	4.000	5.000	0.500	11.46
V0400005125FV	4.000	5.125	0.563	15.77
V0400005125NF	4.000	5.125	0.563	15.77
V0400005125NM	4.000	5.125	0.563	15.77
V0400005250FF	4.000	5.250	0.625	26.42
V0400005250FM	4.000	5.250	0.625	26.42
V0400005250FV	4.000	5.250	0.625	26.42
V0400005500FF*	4.000	5.500	0.750	33.35
V0400005500FM*	4.000	5.500	0.750	33.35
V0400005500FV*	4.000	5.500	0.750	33.35
V0406204812FF	4.062	4.812	0.375	9.63
V0406204812FM	4.062	4.812	0.375	9.63
V0406204812FV	4.062	4.812	0.375	9.63
V0412504625FV	4.125	4.625	0.250	4.06
V0412504625NF	4.125	4.625	0.250	4.06
V0412504625NM	4.125	4.625	0.250	4.06
V0412505000FF	4.125	5.000	0.437	23.94
V0412505000FM	4.125	5.000	0.437	23.94
V0412505000FV	4.125	5.000	0.437	23.94
V0412505025FV*	4.125	5.025	0.450	12.19
V0420004750FV	4.200	4.750	0.275	10.54
V0420004750NF	4.200	4.750	0.275	10.54
V0420004750NM	4.200	4.750	0.275	10.54
V0425004750FF*	4.250	4.750	0.250	3.87
V0425004750FM*	4.250	4.750	0.250	3.87
V0425004750FV	4.250	4.750	0.250	3.87
V0425004750HV	4.250	4.750	0.250	3.87
V0425004750NF	4.250	4.750	0.250	3.87
V0425004750NM	4.250	4.750	0.250	3.87
V0425004875FM	4.250	4.875	0.312	6.02
V0425004875FV	4.250	4.875	0.312	6.02
V0425004875NF	4.250	4.875	0.312	6.02
V0425004875NM*	4.250	4.875	0.312	6.02
V0425005000FF*	4.250	5.000	0.375	9.46

NF
NYLON FEMALE

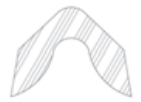


FF
FABRIC FEMALE



BV
BUNA VEE

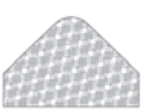
HV
HYTREL VEE



FV
FABRIC VEE

NM
NYLON MALE

FM
FABRIC MALE

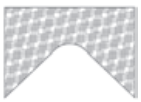


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

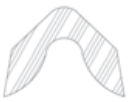
NF
-40 TO 250F
-40 TO 121C

FF
-40 TO 250F
-40 TO 121C



BV
-40 TO 250F
-40 TO 121C

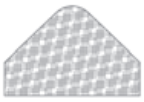
HV
-40 TO 300F
-40 TO 189C



FV
-40 TO 250F
-40 TO 121C

NM
-40 TO 250F
-40 TO 121C

FM
-40 TO 250F
-40 TO 121C



Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0425005000FM*	4.250	5.000	0.375	9.46
V0425005000FV	4.250	5.000	0.375	8.28
V0425005000HV*	4.250	5.000	0.375	8.28
V0425005000NF	4.250	5.000	0.375	8.28
V0425005000NM	4.250	5.000	0.375	8.28
V0425005125FF*	4.250	5.125	0.437	10.46
V0425005125FM*	4.250	5.125	0.437	10.46
V0425005125FV	4.250	5.125	0.437	11.47
V0425005125HV	4.250	5.125	0.437	11.47
V0425005125NF	4.250	5.125	0.437	11.47
V0425005125NM	4.250	5.125	0.437	11.47
V0425005250FF	4.250	5.250	0.500	15.37
V0425005250FM	4.250	5.250	0.500	15.37
V0425005250FV	4.250	5.250	0.500	15.37
V0427505025FV*	4.275	5.025	0.375	8.20
V0427505025NF*	4.275	5.025	0.375	8.20
V0427505025NM*	4.275	5.025	0.375	8.20
V0437504875FF*	4.375	4.875	0.250	7.11
V0437504875FM	4.375	4.875	0.250	7.11
V0437504875FV	4.375	4.875	0.250	7.11
V0437505000FF	4.375	5.000	0.312	5.95
V0437505000FM	4.375	5.000	0.312	5.95
V0437505000FV	4.375	5.000	0.312	5.95
V0443704937FF	4.437	4.937	0.250	7.11
V0443704937FM	4.437	4.937	0.250	7.11
V0443704937FV	4.437	4.937	0.250	7.11
V0443705000FF	4.437	5.000	0.281	5.95
V0443705000FM	4.437	5.000	0.281	5.95
V0443705000FV	4.437	5.000	0.281	5.95
V0445005000FV	4.450	5.000	0.275	5.47
V0445005000NF	4.450	5.000	0.275	5.47
V0445005000NM*	4.450	5.000	0.275	5.47
V0447505015FV*	4.475	5.015	0.270	6.93
V0450005000FM	4.500	5.000	0.250	3.92
V0450005000FV	4.500	5.000	0.250	3.01
V0450005000HV	4.500	5.000	0.250	4.31
V0450005000NF	4.500	5.000	0.250	3.01
V0450005000NM	4.500	5.000	0.250	3.01
V0450005125FV	4.500	5.125	0.312	7.94
V0450005125NF	4.500	5.125	0.312	7.94
V0450005125NM	4.500	5.125	0.312	7.94
V0450005250BV	4.500	5.250	0.625	13.55
V0450005250FV	4.500	5.250	0.375	8.05
V0450005250HV	4.500	5.250	0.375	8.05
V0450005250NF	4.500	5.250	0.375	8.05
V0450005250NM	4.500	5.250	0.375	8.05
V0450005375FV	4.500	5.375	0.437	11.94
V0450005375HV	4.500	5.375	0.437	11.94

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0450005375NF	4.500	5.375	0.437	11.94
V0450005375NM	4.500	5.375	0.437	11.94
V0450005500FM*	4.500	5.500	0.500	13.52
V0450005500FV	4.500	5.500	0.500	13.52
V0450005500HV*	4.500	5.500	0.500	13.52
V0450005500NF	4.500	5.500	0.500	13.52
V0450005500NM	4.500	5.500	0.460	13.52
V0458005080FV	4.580	5.080	0.250	5.81
V0458005080NF	4.580	5.080	0.250	5.81
V0458005080NM	4.580	5.080	0.250	5.81
V0462505250FV*	4.625	5.250	0.312	13.19
V0462505375FF*	4.625	5.375	0.375	8.70
V0462505375FM*	4.625	5.375	0.375	8.70
V0462505375FV	4.625	5.375	0.375	8.70
V0470005250FV	4.700	5.250	0.275	8.19
V0470005250NF	4.700	5.250	0.275	8.19
V0470005250NM	4.700	5.250	0.275	8.19
V0470005290FV*	4.700	5.290	0.295	5.39
V0470005290HV*	4.700	5.290	0.295	5.39
V0470005290NF*	4.700	5.290	0.295	5.39
V0470005290NM*	4.700	5.290	0.295	5.39
V0475005250FV	4.750	5.250	0.250	6.49
V0475005250HV	4.750	5.250	0.250	6.49
V0475005250NF	4.750	5.250	0.250	6.49
V0475005250NM	4.750	5.250	0.250	6.49
V0475005375FV	4.750	5.375	0.312	5.52
V0475005375HV	4.750	5.375	0.312	5.52
V0475005375NF	4.750	5.375	0.312	5.52
V0475005375NM	4.750	5.375	0.312	5.52
V0475005500FM*	4.750	5.500	0.375	8.38
V0475005500FV	4.750	5.500	0.375	8.38
V0475005500HV	4.750	5.500	0.375	8.38
V0475005500NF	4.750	5.500	0.375	8.38
V0475005500NM	4.750	5.500	0.375	8.38
V0475005625FV	4.750	5.625	0.437	12.05
V0475005625NF	4.750	5.625	0.437	12.05
V0475005625NM*	4.750	5.625	0.437	12.05
V0475005750FF	4.750	5.750	0.500	9.23
V0475005750FM	4.750	5.750	0.500	9.23
V0475005750FV	4.750	5.750	0.500	9.23
V0475006000FF	4.750	6.000	0.625	16.22
V0475006000FM	4.750	6.000	0.625	16.22
V0475006000FV	4.750	6.000	0.625	16.22
V0487505500FF*	4.875	5.500	0.312	7.11
V0487505500FM*	4.875	5.500	0.312	7.11
V0487505500FV*	4.875	5.500	0.312	7.11
V0495005500FV	4.950	5.500	0.275	7.02
V0495005500HV	4.950	5.500	0.275	7.02

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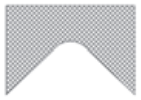
STANDARD VEE PACKING

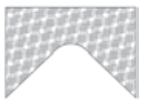
Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0495005500NF	4.950	5.500	0.275	7.02
V0495005500NM	4.950	5.500	0.275	7.02
V0497005520FV*	4.970	5.520	0.275	5.98
V0497005520HV*	4.970	5.520	0.275	5.98
V0497005520NF*	4.970	5.520	0.275	5.98
V0497005520NM*	4.970	5.520	0.275	5.98
V0500005375FF*	5.000	5.375	0.187	8.13
V0500005375FM*	5.000	5.375	0.187	8.13
V0500005375FV*	5.000	5.375	0.187	8.13
V0500005500FF	5.000	5.500	0.250	4.00
V0500005500FM*	5.000	5.500	0.250	4.00
V0500005500FV	5.000	5.500	0.250	3.18
V0500005500HV	5.000	5.500	0.250	3.18
V0500005500NF	5.000	5.500	0.250	3.18
V0500005500NM	5.000	5.500	0.250	3.18
V0500005625FF	5.000	5.625	0.312	7.21
V0500005625FM	5.000	5.625	0.312	7.21
V0500005625FV	5.000	5.625	0.312	7.21
V0500005625NF	5.000	5.625	0.312	7.21
V0500005625NM	5.000	5.625	0.312	7.21
V0500005750FF*	5.000	5.750	0.375	10.28
V0500005750FV	5.000	5.750	0.375	10.28
V0500005750HV	5.000	5.750	0.375	10.28
V0500005750NF	5.000	5.750	0.375	10.28
V0500005750NM	5.000	5.750	0.375	10.28
V0500005875FM	5.000	5.875	0.437	12.54
V0500005875FV	5.000	5.875	0.437	12.54
V0500006000FV	5.000	6.000	0.500	10.38
V0500006000HV	5.000	6.000	0.500	12.31
V0500006000NF	5.000	6.000	0.500	10.38
V0500006000NM	5.000	6.000	0.500	10.38
V0500006040FF*	5.000	6.040	0.520	23.05
V0500006040FM	5.000	6.040	0.520	23.05
V0500006040FV	5.000	6.040	0.520	23.05
V0500006250FF	5.000	6.250	0.625	33.06
V0500006250FM	5.000	6.250	0.625	33.06
V0500006250FV	5.000	6.250	0.625	33.06
V0500006500FV*	5.000	6.500	0.750	20.46
V0506205562FV	5.062	5.562	0.250	4.98
V0506205562NF	5.062	5.562	0.250	4.98
V0506205562NM	5.062	5.562	0.250	4.98
V0512505625FV	5.125	5.625	0.250	6.22
V0512505625HV*	5.125	5.625	0.250	6.22
V0512505625NF	5.125	5.625	0.250	6.22
V0512505625NM	5.125	5.625	0.250	6.22
V0512506000FF	5.125	6.000	0.437	12.48
V0512506000FM	5.125	6.000	0.437	12.48
V0512506000FV	5.125	6.000	0.437	12.48

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0518705750FF*	5.187	5.750	0.281	9.97
V0518705750FM*	5.187	5.750	0.281	9.97
V0518705750FV	5.187	5.750	0.281	9.97
V0525005750FV	5.250	5.750	0.250	3.43
V0525005750HV	5.250	5.750	0.250	4.15
V0525005750NF	5.250	5.750	0.250	3.43
V0525005750NM	5.250	5.750	0.250	3.43
V0525006000FV	5.250	6.000	0.375	7.74
V0525006000HV	5.250	6.000	0.375	10.31
V0525006000NF	5.250	6.000	0.375	7.74
V0525006000NM	5.250	6.000	0.375	7.74
V0525006250BV*	5.250	6.250	0.500	26.22
V0525006250FV	5.250	6.250	0.500	10.58
V0525006250NF	5.250	6.250	0.500	10.58
V0525006250NM	5.250	6.250	0.500	10.58
V0537506000FF*	5.375	6.000	0.312	9.66
V0537506000FM*	5.375	6.000	0.312	9.66
V0537506000FV*	5.375	6.000	0.312	9.66
V0537506250FV	5.375	6.250	0.437	15.77
V0537506250NF	5.375	6.250	0.437	15.77
V0537506250NM	5.375	6.250	0.437	15.77
V0544505945FV	5.445	5.945	0.250	5.31
V0544505945HV	5.445	5.945	0.250	5.31
V0544505945NF	5.445	5.945	0.250	5.31
V0544505945NM	5.445	5.945	0.250	5.31
V0545006000FV*	5.450	6.000	0.275	9.13
V0550006000FV	5.500	6.000	0.250	3.59
V0550006000HV	5.500	6.000	0.250	3.74
V0550006000NF	5.500	6.000	0.250	3.59
V0550006000NM	5.500	6.000	0.250	3.59
V0550006125BV*	5.500	6.125	0.312	16.82
V0550006125FF*	5.500	6.125	0.312	10.55
V0550006125FM*	5.500	6.125	0.312	10.55
V0550006125FV	5.500	6.125	0.312	10.55
V0550006250FV	5.500	6.250	0.375	10.26
V0550006250HV	5.500	6.250	0.375	10.93
V0550006250NF	5.500	6.250	0.375	12.88
V0550006250NM	5.500	6.250	0.375	12.88
V0550006375FF	5.500	6.375	0.437	15.36
V0550006375FM	5.500	6.375	0.437	15.36
V0550006375FV	5.500	6.375	0.437	15.36
V0550006500BV*	5.500	6.500	0.500	15.25
V0550006500FF	5.500	6.500	0.500	14.23
V0550006500FM	5.500	6.500	0.500	14.23
V0550006500FV	5.500	6.500	0.500	13.03
V0550006500HV	5.500	6.500	0.500	22.33
V0550006500NF	5.500	6.500	0.500	13.03
V0550006500NM	5.500	6.500	0.500	13.03

NF
NYLON FEMALE

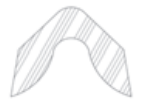


FF
FABRIC FEMALE



BV
BUNA VEE

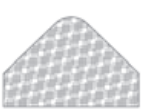
HV
HYTREL VEE



FV
FABRIC VEE

NM
NYLON MALE

FM
FABRIC MALE

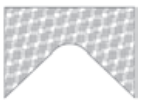


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

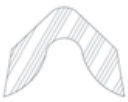
NF
-40 TO 250F
-40 TO 121C

FF
-40 TO 250F
-40 TO 121C



BV
-40 TO 250F
-40 TO 121C

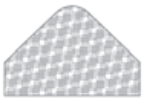
HV
-40 TO 300F
-40 TO 189C



FV
-40 TO 250F
-40 TO 121C

NM
-40 TO 250F
-40 TO 121C

FM
-40 TO 250F
-40 TO 121C



Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0550006750FF	5.500	6.750	0.625	21.52
V0550006750FM	5.500	6.750	0.625	21.52
V0550006750FV	5.500	6.750	0.625	21.52
V0570006450FV	5.700	6.450	0.375	11.21
V0570006450HV*	5.700	6.450	0.375	11.21
V0570006450NF	5.700	6.450	0.375	11.21
V0570006450NM	5.700	6.450	0.375	11.21
V0575006250FF*	5.750	6.250	0.250	9.18
V0575006250FM	5.750	6.250	0.250	9.18
V0575006250FV	5.750	6.250	0.250	9.18
V0575006250NF	5.750	6.250	0.250	9.18
V0575006250NM	5.750	6.250	0.250	9.18
V0575006375FV	5.750	6.375	0.312	6.37
V0575006375HV	5.750	6.375	0.312	6.37
V0575006375NF	5.750	6.375	0.312	6.37
V0575006375NM	5.750	6.375	0.312	6.37
V0575006500FV	5.750	6.500	0.375	9.01
V0575006500HV	5.750	6.500	0.375	10.61
V0575006500NF	5.750	6.500	0.375	15.02
V0575006500NM	5.750	6.500	0.375	15.17
V0575006750FV	5.750	6.750	0.500	18.36
V0575006750NF	5.750	6.750	0.500	18.36
V0575006750NM	5.750	6.750	0.500	18.36
V0595006500FV	5.950	6.500	0.275	13.44
V0595006500HV	5.950	6.500	0.275	13.44
V0595006500NF	5.950	6.500	0.275	13.44
V0595006500NM	5.910	6.500	0.295	13.44
V0600006500FV	6.000	6.500	0.250	3.82
V0600006500HV	6.000	6.500	0.250	3.82
V0600006500NF	6.000	6.500	0.250	3.82
V0600006500NM	6.000	6.500	0.250	3.82
V0600006625FV	6.000	6.625	0.312	6.86
V0600006625NF	6.000	6.625	0.312	6.86
V0600006625NM	6.000	6.625	0.312	6.86
V0600006750BV	6.000	6.750	0.375	16.51
V0600006750FV	6.000	6.750	0.375	10.49
V0600006750NF	6.000	6.750	0.375	13.30
V0600006750NM	6.000	6.750	0.375	13.30
V0600007000FF	6.000	7.000	0.500	16.09
V0600007000FM	6.000	7.000	0.500	16.09
V0600007000FV	6.000	7.000	0.500	11.99
V0600007000HV	6.000	7.000	0.500	14.98
V0600007000NF	6.000	7.000	0.500	17.65
V0600007000NM	6.000	7.000	0.500	11.99
V0600007040FV*	6.000	7.040	0.020	13.94
V0600007250FF	6.000	7.250	0.625	20.67
V0600007250FM	6.000	7.250	0.625	20.67
V0600007250FV	6.000	7.250	0.625	20.67

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0600007500FF	6.000	7.500	0.750	26.70
V0600007500FM	6.000	7.500	0.750	26.70
V0600007500FV	6.000	7.500	0.750	26.70
V0603006780FV*	6.030	6.780	0.375	9.43
V0603006780HV*	6.030	6.780	0.375	9.43
V0603006780NF*	6.030	6.780	0.375	9.43
V0603006780NM*	6.030	6.780	0.375	9.43
V0625006750FF*	6.250	6.750	0.250	7.05
V0625006750FM*	6.250	6.750	0.250	7.05
V0625006750FV	6.250	6.750	0.250	7.05
V0625006875FV	6.250	6.875	0.312	8.99
V0625006875HV	6.250	6.875	0.312	8.99
V0625006875NF	6.250	6.875	0.312	8.99
V0625006875NM	6.250	6.875	0.312	8.99
V0625007000BV*	6.250	7.000	0.375	10.93
V0625007000FF*	6.250	7.000	0.375	12.26
V0625007000FM*	6.250	7.000	0.375	12.26
V0625007000FV	6.250	7.000	0.375	10.70
V0625007000NF	6.250	7.000	0.375	10.70
V0625007000NM	6.250	7.000	0.375	10.70
V0625007250FF	6.250	7.250	0.500	20.21
V0625007250FM	6.250	7.250	0.500	20.21
V0625007250FV	6.250	7.250	0.500	20.21
V0644506945FV	6.445	6.945	0.250	6.62
V0644506945HV*	6.445	6.945	0.250	6.62
V0644506945NF*	6.445	6.945	0.250	6.62
V0644506945NM*	6.445	6.945	0.250	6.62
V0647507025FV*	6.475	7.025	0.275	11.24
V0650007000FF*	6.500	7.000	0.250	8.57
V0650007000FV	6.500	7.000	0.250	8.57
V0650007000HV	6.500	7.000	0.250	8.57
V0650007000NF	6.500	7.000	0.250	8.57
V0650007000NM	6.500	7.000	0.250	8.57
V0650007250FV	6.500	7.250	0.375	16.76
V0650007250HV*	6.500	7.250	0.375	16.76
V0650007250NF	6.500	7.250	0.375	16.76
V0650007250NM	6.500	7.250	0.375	16.76
V0650007500FF*	6.500	7.500	0.500	22.06
V0650007500FV	6.500	7.500	0.500	19.28
V0650007500NF	6.500	7.500	0.500	22.06
V0650007500NM	6.500	7.500	0.500	19.28
V0650007750FF*	6.500	7.750	0.625	29.52
V0650007750FM*	6.500	7.750	0.625	29.52
V0650007750FV*	6.500	7.750	0.625	29.52
V0662507250FF*	6.625	7.250	0.312	16.30
V0662507250FM*	6.625	7.250	0.312	16.30
V0662507250FV*	6.625	7.250	0.312	16.30
V0670007250FV*	6.700	7.250	0.275	15.83

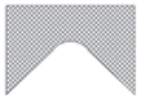
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

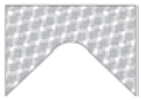
Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0670007250NF*	6.700	7.250	0.275	15.83
V0670007250NM*	6.700	7.250	0.275	15.83
V0670007500FF*	6.700	7.500	0.400	12.11
V0670007500FM*	6.700	7.500	0.400	12.11
V0670007500FV*	6.700	7.500	0.400	12.11
V0675007250FF*	6.750	7.250	0.250	10.49
V0675007250FM*	6.750	7.250	0.250	10.49
V0675007250FV	6.750	7.250	0.250	10.49
V0675007250HV*	6.750	7.250	0.250	10.49
V0675007250NF	6.750	7.250	0.250	10.49
V0675007250NM	6.750	7.250	0.250	10.49
V0675007375FV	6.750	7.375	0.312	9.54
V0675007375HV	6.750	7.375	0.312	9.54
V0675007375NF	6.750	7.375	0.312	9.54
V0675007375NM	6.750	7.375	0.312	9.54
V0675007500FV	6.750	7.500	0.375	13.05
V0675007500NF	6.750	7.500	0.375	16.81
V0675007500NM	6.750	7.500	0.375	16.81
V0675007750BV	6.750	7.750	0.500	25.86
V0675007750FF	6.750	7.750	0.500	25.86
V0675007750FM	6.750	7.750	0.500	25.86
V0675007750FV	6.750	7.750	0.500	25.86
V0675007750NF*	6.750	7.750	0.500	25.86
V0675007750NM*	6.750	7.750	0.500	25.86
V0675008000FF*	6.750	8.000	0.625	35.68
V0675008000FM*	6.750	8.000	0.625	35.68
V0675008000FV	6.750	8.000	0.625	35.68
V0695007500FV	6.950	7.500	0.275	8.55
V0695007500HV	6.950	7.500	0.275	8.55
V0695007500NF*	6.950	7.500	0.275	8.55
V0695007500NM	6.950	7.500	0.275	8.55
V0697007520FV	6.970	7.520	0.275	12.54
V0697007520HV	6.970	7.520	0.275	12.54
V0697007520NF*	6.970	7.520	0.275	12.54
V0697007520NM*	6.970	7.520	0.275	12.54
V0700007500FV	7.000	7.500	0.250	6.34
V0700007500HV	7.000	7.500	0.250	6.34
V0700007500NF	7.000	7.500	0.250	6.34
V0700007500NM	7.000	7.500	0.250	6.34
V0700007750BV	7.000	7.750	0.375	16.84
V0700007750FV	7.000	7.750	0.375	16.84
V0700007750NF	7.000	7.750	0.375	16.84
V0700007750NM	7.000	7.750	0.375	16.84
V0700008000FV	7.000	8.000	0.500	24.77
V0700008000HV	7.000	8.000	0.500	24.77
V0700008000NF	7.000	8.000	0.500	24.77
V0700008000NM	7.000	8.000	0.500	24.77
V0700008250FF	7.000	8.250	0.625	30.71

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0700008250FM	7.000	8.250	0.625	30.71
V0700008250FV	7.000	8.250	0.625	30.71
V0725007750FF	7.250	7.750	0.250	22.15
V0725007750FM	7.250	7.750	0.250	22.15
V0725007750FV	7.250	7.750	0.250	22.15
V0725008000FV	7.250	8.000	0.375	20.25
V0725008000NF	7.250	8.000	0.375	20.25
V0725008000NM	7.250	8.000	0.375	20.25
V0725008250FF*	7.250	8.250	0.500	32.17
V0725008250FM*	7.250	8.250	0.500	32.17
V0725008250FV*	7.250	8.250	0.500	32.17
V0737508000FV*	7.375	8.000	0.312	20.96
V0750008000FF*	7.500	8.000	0.250	9.01
V0750008000FM*	7.500	8.000	0.250	9.01
V0750008000FV	7.500	8.000	0.250	9.01
V0750008000HV	7.500	8.000	0.250	9.01
V0750008000NF	7.500	8.000	0.250	9.01
V0750008000NM	7.500	8.000	0.250	9.01
V0750008125FV	7.500	8.125	0.312	16.29
V0750008125NF	7.500	8.125	0.312	16.29
V0750008125NM	7.500	8.125	0.312	16.29
V0750008250FV	7.500	8.250	0.375	16.54
V0750008250HV	7.500	8.250	0.375	16.55
V0750008250NF	7.500	8.250	0.375	16.54
V0750008250NM	7.500	8.250	0.375	16.54
V0750008500FF*	7.500	8.500	0.500	33.98
V0750008500FM*	7.500	8.500	0.500	33.98
V0750008500FV	7.500	8.500	0.500	25.20
V0750008500NF	7.500	8.500	0.500	28.76
V0750008500NM	7.500	8.500	0.500	28.76
V0750008750FF*	7.500	8.750	0.625	33.85
V0750008750FM	7.500	8.750	0.625	33.85
V0750008750FV	7.500	8.750	0.625	33.85
V0775008250FF*	7.750	8.250	0.250	11.67
V0775008250FM*	7.750	8.250	0.250	11.67
V0775008250FV*	7.750	8.250	0.250	11.67
V0775008500FV	7.750	8.500	0.375	20.81
V0775008500NF	7.750	8.500	0.375	20.81
V0775008500NM	7.750	8.500	0.375	20.81
V0787508875FV	7.875	8.875	0.500	37.95
V0790508543FV	7.905	8.543	0.319	12.03
V0790508543HV	7.905	8.543	0.319	12.03
V0790508543NF	7.905	8.543	0.319	12.03
V0790508543NM	7.905	8.543	0.319	12.03
V0792509170BV*	7.925	9.170	0.623	31.17
V0792509170FV*	7.925	9.170	0.623	36.76
V0795008500FV*	7.950	8.500	0.275	10.50
V0795008500HV*	7.950	8.500	0.275	10.50

NF
NYLON FEMALE

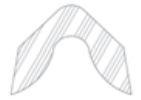


FF
FABRIC FEMALE



BV
BUNA VEE

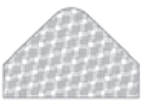
HV
HYTREL VEE



FV
FABRIC VEE

NM
NYLON MALE

FM
FABRIC MALE

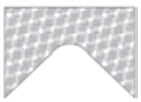


*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

STANDARD VEE PACKING

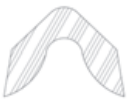
NF
-40 TO 250F
-40 TO 121C

FF
-40 TO 250F
-40 TO 121C



BV
-40 TO 250F
-40 TO 121C

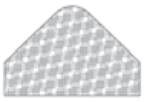
HV
-40 TO 300F
-40 TO 189C



FV
-40 TO 250F
-40 TO 121C

NM
-40 TO 250F
-40 TO 121C

FM
-40 TO 250F
-40 TO 121C



Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0795008500NF*	7.950	8.500	0.275	10.50
V0795008500NM*	7.950	8.500	0.275	10.50
V0800008500FV	8.000	8.500	0.250	7.70
V0800008500HV	8.000	8.500	0.250	7.70
V0800008500NF	8.000	8.500	0.250	7.70
V0800008500NM	8.000	8.500	0.250	7.70
V0800008750BV	8.000	8.750	0.375	18.45
V0800008750FV	8.000	8.750	0.375	18.45
V0800008750NF	8.000	8.750	0.375	18.45
V0800008750NM	8.000	8.750	0.375	18.45
V0800009000BV*	8.000	9.000	0.500	21.37
V0800009000FF	8.000	9.000	0.500	21.37
V0800009000FM	8.000	9.000	0.500	21.37
V0800009000FV	8.000	9.000	0.500	21.37
V0800009250FF	8.000	9.250	0.625	37.57
V0800009250FM	8.000	9.250	0.625	37.57
V0800009250FV	8.000	9.250	0.625	37.57
V0800009500FF	8.000	9.500	0.750	41.47
V0800009500FM	8.000	9.500	0.750	41.47
V0800009500FV	8.000	9.500	0.750	41.47
V0804009040FF*	8.040	9.040	0.500	23.26
V0804009040FM*	8.040	9.040	0.500	23.26
V0804009040FV*	8.040	9.040	0.500	23.26
V0805009050FV*	8.050	9.050	0.500	26.22
V0812508625FV	8.125	8.625	0.250	9.99
V0812508625HV	8.125	8.625	0.250	9.99
V0812508625NF	8.125	8.625	0.250	9.99
V0812508625NM	8.125	8.625	0.250	9.99
V0825008750FF*	8.250	8.750	0.250	11.01
V0825008750FM*	8.250	8.750	0.250	11.01
V0825008750FV	8.250	8.750	0.250	11.01
V0825008750HV	8.250	8.750	0.250	11.01
V0825008750NF	8.250	8.750	0.250	11.01
V0825008750NM	8.250	8.750	0.250	11.01
V0825009000FV	8.250	9.000	0.375	18.69
V0825009000HV	8.250	9.000	0.375	18.69
V0825009000NF	8.250	9.000	0.375	18.69
V0825009000NM	8.250	9.000	0.375	18.69
V0850009000FF*	8.500	9.000	0.250	12.64
V0850009000FM*	8.500	9.000	0.250	12.64
V0850009000FV	8.500	9.000	0.250	12.64
V0850009000HV	8.500	9.000	0.250	12.64
V0850009000NF	8.500	9.000	0.250	12.64
V0850009000NM	8.500	9.000	0.250	12.64
V0850009250FV	8.500	9.250	0.375	17.04
V0850009250NF	8.500	9.250	0.375	17.04
V0850009250NM	8.500	9.250	0.375	17.04
V0850009500FF	8.500	9.500	0.500	27.05

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0850009500FM	8.500	9.500	0.500	27.05
V0850009500FV	8.500	9.500	0.500	27.02
V0850010000FF	8.500	10.000	0.750	42.50
V0850010000FM	8.500	10.000	0.750	42.50
V0850010000FV	8.500	10.000	0.750	42.50
V0850010062DF	8.500	10.062	0.781	300.18
V0850010062DM	8.500	10.062	0.781	236.71
V0850010062FV	8.500	10.062	0.781	47.23
V0875009375FF	8.750	9.375	0.312	17.81
V0875009375FM	8.750	9.375	0.312	17.81
V0875009375FV	8.750	9.375	0.312	17.81
V0875010000FF*	8.750	10.000	0.625	49.42
V0875010000FM	8.750	10.000	0.625	49.42
V0875010000FV*	8.750	10.000	0.625	49.42
V0887509875FF*	8.875	9.875	0.500	25.91
V0887509875FM*	8.875	9.875	0.500	25.91
V0887509875FV*	8.875	9.875	0.500	25.91
V0900009500FV	9.000	9.500	0.250	23.05
V0900009500NF	9.000	9.500	0.250	23.05
V0900009500NM	9.000	9.500	0.250	23.05
V0900009750FV	9.000	9.750	0.375	21.92
V0900009750HV	9.000	9.750	0.375	21.92
V0900009750NF	9.000	9.750	0.375	21.92
V0900009750NM	9.000	9.750	0.375	21.92
V0900010000BV*	9.000	10.000	0.500	41.64
V0900010000FV	9.000	10.000	0.500	31.51
V0900010000NF	9.000	10.000	0.500	31.51
V0900010000NM	9.000	10.000	0.500	31.51
V0900010250FF	9.000	10.250	0.625	40.67
V0900010250FM	9.000	10.250	0.625	40.67
V0900010250FV*	9.000	10.250	0.625	40.67
V0912509625FV*	9.125	9.625	0.250	17.23
V0912509625NF*	9.125	9.625	0.250	17.23
V0912509625NM*	9.125	9.625	0.250	17.23
V0912509750FV	9.125	9.750	0.312	19.29
V0912509750HV	9.125	9.750	0.312	19.29
V0912509750NF	9.125	9.750	0.312	19.29
V0912509750NM*	9.125	9.750	0.312	19.29
V0925009750FF*	9.250	9.750	0.250	23.80
V0925009750FM*	9.250	9.750	0.250	23.80
V0925009750FV*	9.250	9.750	0.250	23.80
V0937509875FV	9.375	9.875	0.250	14.98
V0937509875HV	9.375	9.875	0.250	14.98
V0937509875NF	9.375	9.875	0.250	14.98
V0937509875NM	9.375	9.875	0.250	14.98
V0937510000FV	9.375	10.000	0.312	27.83
V0937510000HV*	9.375	10.000	0.312	27.83
V0937510000NF	9.375	10.000	0.312	27.83

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

STANDARD VEE PACKING

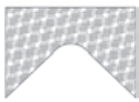
Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V0937510000NM	9.375	10.000	0.312	27.83
V0950010000FF*	9.500	10.000	0.250	20.96
V0950010000FM*	9.500	10.000	0.250	20.96
V0950010000FV	9.500	10.000	0.250	20.96
V0950010000HV	9.500	10.000	0.250	20.96
V0950010000NF	9.500	10.000	0.250	20.96
V0950010000NM	9.500	10.000	0.250	20.96
V0950010500FF	9.500	10.500	0.500	35.93
V0950010500FM	9.500	10.500	0.500	35.93
V0950010500FV	9.500	10.500	0.500	35.93
V0975010500FV	9.750	10.500	0.375	28.39
V0975010500HV	9.750	10.500	0.375	28.39
V0975010500NF	9.750	10.500	0.375	28.39
V0975010500NM	9.750	10.500	0.375	28.39
V0987510875FV*	9.875	10.875	0.500	30.92
V1000011000FF	10.000	11.000	0.500	43.91
V1000011000FM	10.000	11.000	0.500	43.91
V1000011000FV	10.000	11.000	0.500	43.91
V1000011250FF	10.000	11.250	0.625	45.23
V1000011250FM	10.000	11.250	0.625	45.23
V1000011250FV	10.000	11.250	0.625	45.23
V1000011500FF	10.000	11.500	0.750	50.18
V1000011500FM	10.000	11.500	0.750	50.18
V1000011500FV	10.000	11.500	0.750	50.18
V1050011000FF	10.500	11.000	0.250	22.83
V1050011000FM	10.500	11.000	0.250	22.83
V1050011000FV	10.500	11.000	0.250	22.83
V1050011250FF	10.500	11.250	0.375	39.26
V1050011250FM	10.500	11.250	0.375	39.26
V1050011250FV	10.500	11.250	0.375	39.26
V1050011500FF	10.500	11.500	0.500	48.51
V1050011500FM	10.500	11.500	0.500	48.51
V1050011500FV	10.500	11.500	0.500	48.51
V1062512125FV	10.625	12.125	0.750	56.13

Ref. Number	Nominal Packing Dimensions			$
	d	D	Section	
V1075011500FF	10.750	11.500	0.375	59.01
V1075011500FM	10.750	11.500	0.375	59.01
V1075011500FV	10.750	11.500	0.375	59.01
V1075012000FF*	10.750	12.000	0.625	51.34
V1075012000FM*	10.750	12.000	0.625	51.34
V1075012000FV*	10.750	12.000	0.625	51.34
V1087511875FF*	10.875	11.875	0.500	36.68
V1087511875FM*	10.875	11.875	0.500	36.68
V1087511875FV*	10.875	11.875	0.500	36.68
V1100011500FM*	11.000	11.500	0.250	36.68
V1100012000BV*	11.000	12.000	0.500	42.33
V1100012000FF	11.000	12.000	0.500	42.33
V1100012000FM	11.000	12.000	0.500	42.33
V1100012000FV	11.000	12.000	0.500	42.33
V1100012500FF*	11.000	12.500	0.750	50.18
V1100012500FM	11.000	12.500	0.750	50.18
V1100012500FV	11.000	12.500	0.750	50.18
V1125012000FF	11.250	12.000	0.375	43.86
V1125012000FM	11.250	12.000	0.375	43.86
V1125012000FV	11.250	12.000	0.375	43.86
V1187512875FF*	11.875	12.875	0.500	139.66
V1187512875FM*	11.875	12.875	0.500	139.66
V1187512875FV*	11.875	12.875	0.500	56.01
V1200013000FF	12.000	13.000	0.500	51.68
V1200013000FM	12.000	13.000	0.500	51.68
V1200013000FV	12.000	13.000	0.500	51.68
V1300014000FF	13.000	14.000	0.500	49.35
V1300014000FM	13.000	14.000	0.500	49.35
V1300014000FV	13.000	14.000	0.500	49.35
V1400015000FF	14.000	15.000	0.500	71.32
V1400015000FM	14.000	15.000	0.500	71.32
V1400015000FV	14.000	15.000	0.500	71.32
V1600017500FV	16.000	17.500	0.750	84.59

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

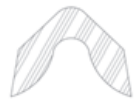
NF
NYLON FEMALE

FF
FABRIC FEMALE



BV
BUNA VEE

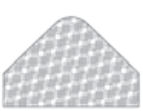
HV
HYTREL VEE



FV
FABRIC VEE

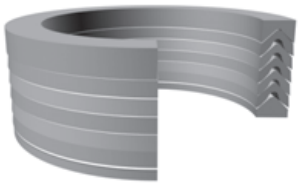
NM
NYLON MALE

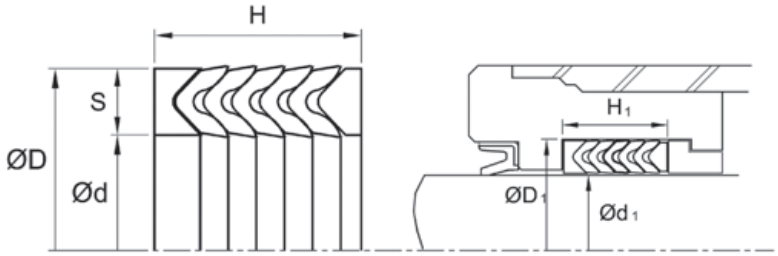
FM
FABRIC MALE



Standard Vee Sets

Nylon/Hytrel/Neofab





Temperature: -40/250F [-40/121C] **Pressure: 5000 PSI [413 Bar]**

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0037500750VS-1041	0.375	0.750	0.187	0.812	12.57
V0037500875VS-1011	0.375	0.875	0.250	0.500	13.68
V0050000875VS-1031	0.500	0.875	0.187	0.625	6.70
V0050001000VS-1031*	0.500	1.000	0.250	0.750	4.61
V0050001000VS-1041	0.500	1.000	0.250	0.875	8.15
V0062501000VS-1041	0.625	1.000	0.187	0.875	8.80
V0062501125VS-1051	0.625	1.125	0.250	1.062	9.32
V0062501250VS-1051*	0.625	1.250	0.312	1.200	29.87
V0075001125VS-1031	0.750	1.125	0.187	0.750	11.22
V0075001125VS-1061	0.750	1.125	0.187	0.812	14.71
V0075001250VS-1021*	0.750	1.250	0.250	0.625	11.92
V0075001250VS-1051	0.750	1.250	0.250	1.000	9.32
V0075001375VS-1041	0.750	1.375	0.312	1.100	8.34
V0075001500VS-1031	0.750	1.500	0.375	1.125	10.54
V0081201312VS-0041*	0.812	1.312	0.250	0.832	7.82
V0081201312VS-1041	0.812	1.312	0.250	0.987	10.44
V0087501250VS-1031	0.875	1.250	0.187	0.812	7.45
V0087501375VS-1031	0.875	1.375	0.250	0.750	4.99
V0087501375VS-1041	0.875	1.375	0.250	0.890	9.21
V0087501500VS-1041	0.875	1.500	0.312	1.062	10.96
V0100001375VS-1231	1.000	1.375	0.187	0.875	9.53
V0100001375VS-1061	1.000	1.375	0.187	1.000	10.54
V0100001500VS-0221*	1.000	1.500	0.250	0.750	9.27
V0100001500VS-1031	1.000	1.500	0.250	1.000	6.64
V0100001500VS-1051	1.000	1.500	0.250	1.062	9.27
V0100001500VS-1061	1.000	1.500	0.250	1.187	10.64
V0100001625VS-1041	1.000	1.625	0.312	1.062	8.34
V0100001750VS-1031	1.000	1.750	0.375	1.000	15.48
V0106201562VS-1051*	1.062	1.562	0.250	1.000	28.04
V0112501625VS-1041	1.125	1.625	0.250	0.875	8.13
V0112501750VS-1041	1.125	1.750	0.312	1.125	9.39
V0118701562VS-1061*	1.187	1.562	0.187	0.937	27.55
V0118701687VS-1041	1.187	1.687	0.250	1.000	8.97
V0125001750VS-1031	1.250	1.750	0.250	0.812	6.57
V0125001750VS-1221	1.250	1.750	0.250	0.937	8.19
V0125001750VS-1051	1.250	1.750	0.250	1.125	9.46
V0125001750VS-1061	1.250	1.750	0.250	1.250	10.78
V0125001875VS-1041	1.250	1.875	0.312	1.125	12.00

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0125002000VS-1121	1.250	2.000	0.375	1.000	11.32
V0125002250VS-1021*	1.250	2.250	0.500	1.000	16.11
V0125002250VS-1041	1.250	2.250	0.500	1.500	17.76
V0137501750VS-1061*	1.375	1.750	0.187	1.062	11.59
V0137501875VS-1031	1.375	1.875	0.250	0.750	7.51
V0137501875VS-1231	1.375	1.875	0.250	1.000	9.32
V0137502000VS-1041	1.375	2.000	0.312	1.125	12.24
V0137502125VS-1041	1.375	2.125	0.375	1.250	26.09
V0150002000VS-1131	1.500	2.000	0.250	0.875	7.45
V0150002000VS-1041	1.500	2.000	0.250	0.875	6.89
V0150002000VS-1231	1.500	2.000	0.250	1.000	9.39
V0150002000VS-1241	1.500	2.000	0.250	1.125	10.78
V0150002000VS-1071	1.500	2.000	0.250	1.250	12.15
V0150002125VS-1221	1.500	2.125	0.312	1.062	10.97
V0150002125VS-1051	1.500	2.125	0.312	1.187	12.91
V0150002250VS-1031	1.500	2.250	0.375	1.000	9.07
V0150002375VS-1051*	1.500	2.375	0.437	1.500	32.29
V0150002500VS-1121*	1.500	2.500	0.500	1.250	17.76
V0150002500VS-1221	1.500	2.500	0.500	1.500	20.99
V0162502125VS-1031*	1.625	2.125	0.250	0.750	8.07
V0162502125VS-1051	1.625	2.125	0.250	1.000	11.99
V0162502125VS-1061*	1.625	2.125	0.250	1.125	12.91
V0162502250VS-1031	1.625	2.250	0.312	0.875	11.83
V0162502250VS-1041	1.625	2.250	0.312	1.000	12.52
V0175002125VS-0040*	1.750	2.125	0.187	0.437	5.51
V0175002125VS-1231	1.750	2.125	0.187	0.875	25.17
V0175002250VS-1131	1.750	2.250	0.250	0.875	7.82
V0175002250VS-1051	1.750	2.250	0.250	1.000	11.46
V0175002250VS-1241	1.750	2.250	0.250	1.125	11.85
V0175002375VS-1121*	1.750	2.375	0.312	0.875	12.24
V0175002375VS-1320	1.750	2.375	0.312	1.000	21.64
V0175002375VS-1221	1.750	2.375	0.312	1.062	12.68
V0175002375VS-1051	1.750	2.375	0.312	1.250	14.84
V0175002500VS-1031	1.750	2.500	0.375	1.000	14.42
V0175002500VS-1061	1.750	2.500	0.375	1.625	16.89
V0187502375VS-1061	1.875	2.375	0.250	1.125	12.24
V0187502500VS-1041	1.875	2.500	0.312	1.125	13.80
V0187502625VS-1041*	1.875	2.625	0.375	1.125	16.47

*** : 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	
V0193702437VS-1061*	1.937	2.437	0.250	1.187	39.91
V0200002375VS-1221*	2.000	2.375	0.187	0.625	17.21
V0200002500VS-1111*	2.000	2.500	0.250	0.625	7.25
V0200002500VS-1041	2.000	2.500	0.250	0.812	8.53
V0200002500VS-1221	2.000	2.500	0.250	0.875	9.62
V0200002500VS-1231	2.000	2.500	0.250	1.000	10.86
V0200002500VS-1241	2.000	2.500	0.250	1.125	12.04
V0200002625VS-1031	2.000	2.625	0.312	0.875	10.91
V0200002625VS-1041	2.000	2.625	0.312	1.000	13.08
V0200002750VS-1121	2.000	2.750	0.375	1.000	14.08
V0200002750VS-1221	2.000	2.750	0.375	1.125	16.89
V0200002750VS-1231	2.000	2.750	0.375	1.375	19.83
V0200003000VS-1031*	2.000	3.000	0.500	1.250	27.69
V0200003000VS-1041	2.000	3.000	0.500	1.562	25.74
V0212502625VS-1041	2.125	2.625	0.250	0.937	14.31
V0212502750VS-1041	2.125	2.750	0.312	1.000	14.59
V0212502750VS-1320*	2.125	2.750	0.312	1.125	28.15
V0212502875VS-1041*	2.125	2.875	0.375	1.187	45.61
V0212502875VS-1051	2.125	2.875	0.375	1.375	80.61
V0218702937VS-1061*	2.187	2.937	0.375	1.562	25.27
V0225002750VS-1131	2.250	2.750	0.250	0.937	9.71
V0225002750VS-1231	2.250	2.750	0.250	1.062	13.01
V0225002875VS-1041	2.250	2.875	0.312	1.187	14.98
V0225002875VS-1051	2.250	2.875	0.312	1.375	17.51
V0225003000VS-1031	2.250	3.000	0.375	1.000	15.38
V0225003250VS-1041	2.250	3.250	0.500	1.625	33.65
V0237502875VS-1051*	2.375	2.875	0.250	1.000	14.08
V0237503000VS-1041	2.375	3.000	0.312	1.000	15.50
V0237503000VS-1051	2.375	3.000	0.312	1.125	18.15
V0237503125VS-1041*	2.375	3.125	0.375	1.187	18.48
V0250002875VS-0040*	2.500	2.875	0.187	0.437	7.89
V0250003000VS-1121	2.500	3.000	0.250	0.750	10.58
V0250003000VS-1131	2.500	3.000	0.250	0.875	12.73
V0250003000VS-1041	2.500	3.000	0.250	0.875	10.95
V0250003000VS-1231	2.500	3.000	0.250	0.937	13.57
V0250003000VS-1241	2.500	3.000	0.250	1.125	15.46
V0250003125VS-1031	2.500	3.125	0.312	0.875	10.99
V0250003125VS-1131*	2.500	3.125	0.312	1.187	31.23
V0250003125VS-1231	2.500	3.125	0.312	1.250	19.92
V0250003250VS-1121*	2.500	3.250	0.375	0.937	17.42
V0250003250VS-1231	2.500	3.250	0.375	1.375	23.27
V0250003500VS-1031	2.500	3.500	0.500	1.250	25.79
V0262503125VS-1221*	2.625	3.125	0.250	0.875	14.08
V0262503125VS-1071*	2.625	3.125	0.250	1.375	26.29
V0262503250VS-1041	2.625	3.250	0.312	1.000	33.52
V0262503375VS-1031*	2.625	3.375	0.375	1.000	32.36
V0275003250VS-1211	2.750	3.250	0.250	0.687	10.89
V0275003250VS-1041	2.750	3.250	0.250	0.875	12.68
V0275003250VS-1141	2.750	3.250	0.250	1.000	13.19
V0275003375VS-1221	2.750	3.375	0.312	1.000	17.85
V0275003500VS-1031	2.750	3.500	0.375	1.000	19.50
V0275003500VS-1221	2.750	3.500	0.375	1.125	23.36
V0275003500VS-1331	2.750	3.500	0.375	1.500	36.48
V0275003750VS-1061	2.750	3.750	0.500	2.000	50.14
V0277503525VS-1031*	2.775	3.525	0.375	1.000	22.65
V0277503525VS-1131*	2.775	3.525	0.375	1.187	25.09
V0287503375VS-1041*	2.875	3.375	0.250	0.875	16.53
V0300003500VS-1021*	3.000	3.500	0.250	0.625	9.21
V0300003500VS-1131	3.000	3.500	0.250	0.875	24.33
V0300003500VS-1041	3.000	3.500	0.250	0.875	11.78
V0300003500VS-1231	3.000	3.500	0.250	1.000	13.24
V0300003500VS-1241	3.000	3.500	0.250	1.125	16.04
V0300003625VS-1121	3.000	3.625	0.312	0.890	17.73
V0300003625VS-1041*	3.000	3.625	0.312	1.062	18.69
V0300003750VS-1121	3.000	3.750	0.375	1.000	22.99
V0300003750VS-1131	3.000	3.750	0.375	1.125	47.34
V0300003750VS-1221*	3.000	3.750	0.375	1.125	27.57
V0300003750VS-1231	3.000	3.750	0.375	1.375	28.93
V0300004000VS-1221	3.000	4.000	0.500	1.500	34.74
V0325003625VS-0040	3.250	3.625	0.187	0.375	9.23
V0325003750VS-1041	3.250	3.750	0.250	0.937	12.88
V0325003750VS-1231*	3.250	3.750	0.250	1.062	15.91
V0325003750VS-1051*	3.250	3.750	0.250	1.062	15.91
V0325003875VS-1041*	3.250	3.875	0.312	1.062	35.03
V0325004000VS-1041	3.250	4.000	0.375	1.187	27.44
V0325004000VS-1051	3.250	4.000	0.375	1.375	32.01
V0325004000VS-1061*	3.250	4.000	0.375	1.562	41.08
V0325004250VS-1221*	3.250	4.250	0.500	1.500	41.34
V0337503875VS-1051*	3.375	3.875	0.300	1.062	17.67
V0337503875VS-1061*	3.375	3.875	0.300	1.250	19.22
V0337504000VS-1031	3.375	4.000	0.362	0.875	16.25
V0337504000VS-1041*	3.375	4.000	0.362	1.000	19.61
V0337504125VS-1031	3.375	4.125	0.425	1.000	24.24
V0337504125VS-1041*	3.375	4.125	0.425	1.187	31.07
V0350004000VS-1121	3.500	4.000	0.500	0.750	12.15
V0350004000VS-1041	3.500	4.000	0.500	0.875	14.74
V0350004000VS-1231	3.500	4.000	0.500	1.000	16.31
V0350004000VS-1361*	3.500	4.000	0.500	1.500	25.20
V0350004250VS-1031	3.500	4.250	0.375	1.000	21.63
V0350004250VS-1221	3.500	4.250	0.375	1.125	28.95
V0350004250VS-1051	3.500	4.250	0.375	1.375	40.59
V0350004500VS-1031*	3.500	4.500	0.500	1.500	32.26
V0350005000VS-1031*	3.500	5.000	0.750	1.500	57.75
V0350005000VS-1041*	3.500	5.000	0.750	2.250	81.57
V0375004250VS-1041	3.750	4.250	0.250	0.937	16.20
V0375004250VS-1231	3.750	4.250	0.250	1.000	17.74
V0375004375VS-1031*	3.750	4.375	0.312	0.875	21.91
V0375004375VS-1221	3.750	4.375	0.312	1.000	26.29
V0375004500VS-1221	3.750	4.500	0.375	1.187	31.37
V0375004500VS-1231	3.750	4.500	0.375	1.375	36.32

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

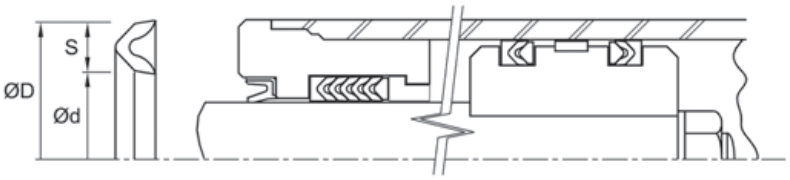
STANDARD VEE SETS - NYLON/HYTREL/NEOFAB

Ref.Number	Nominal Seal Dimensions				$
	d	D	C/S	H	
V0400004500VS-1231	4.000	4.500	0.250	1.000	19.52
V0400004500VS-1241	4.000	4.500	0.250	1.187	22.02
V0400004750VS-1221	4.000	4.750	0.375	1.187	35.07
V0400004875VS-1031*	4.000	4.875	0.437	1.125	39.08
V0400004875VS-1041	4.000	4.875	0.437	1.312	55.97
V0400004875VS-1061*	4.000	4.875	0.437	1.750	62.54
V0400005000VS-1121	4.000	5.000	0.500	1.187	36.29
V0400005000VS-1221	4.000	5.000	0.500	1.437	46.09
V0406204812VS-1031*	4.062	4.812	0.375	1.000	34.68
V0425004750VS-1051*	4.250	4.750	0.250	1.062	27.22
V0425004750VS-1341	4.250	4.750	0.250	1.375	27.22
V0425005000VS-1031	4.250	5.000	0.375	1.062	29.38
V0425005000VS-1051	4.250	5.000	0.375	1.375	51.06
V0425005000VS-1061*	4.250	5.000	0.375	1.562	53.69
V0425005125VS-1051	4.250	5.125	0.437	1.625	52.31
V0425005250VS-1041*	4.250	5.250	0.500	1.625	105.57
V0437504875VS-1051*	4.375	4.875	0.250	0.937	140.88
V0450005000VS-1221*	4.500	5.000	0.250	0.937	18.78
V0450005000VS-1041	4.500	5.000	0.250	0.937	21.86
V0450005000VS-1051	4.500	5.000	0.250	1.062	21.10
V0450005125VS-1061	4.500	5.125	0.312	1.375	94.76
V0450005250VS-1121	4.500	5.250	0.375	1.000	29.56
V0450005250VS-1061*	4.500	5.250	0.375	1.375	48.76
V0450005375VS-1041	4.500	5.375	0.437	1.312	148.96
V0450005500VS-1031	4.500	5.500	0.500	1.250	39.37
V0475005250VS-1041	4.750	5.250	0.250	0.875	19.12
V0475005250VS-1051	4.750	5.250	0.250	1.032	22.15
V0475005500VS-1221	4.750	5.500	0.375	1.187	42.48
V0475005500VS-1051	4.750	5.500	0.375	1.375	49.58
V0475005625VS-1051*	4.750	5.625	0.437	1.500	70.76
V0500005500VS-1221*	5.000	5.500	0.250	0.875	22.10
V0500005500VS-1231	5.000	5.500	0.250	1.000	22.45
V0500005500VS-1241	5.000	5.500	0.250	1.187	26.70
V0500005500VS-1331*	5.000	5.500	0.250	1.187	22.95
V0500005625VS-1041*	5.000	5.625	0.312	1.000	30.51
V0500005750VS-1061	5.000	5.750	0.375	1.625	59.74
V0500005875VS-1041*	5.000	5.875	0.437	1.312	54.00
V0500006000VS-1121	5.000	6.000	0.500	1.250	46.84
V0500006000VS-1231	5.000	6.000	0.500	1.750	74.70
V0512505625VS-1051	5.125	5.625	0.250	1.000	25.98
V0512505625VS-1061*	5.125	5.625	0.250	1.125	28.13
V0525005750VS-1231	5.250	5.750	0.250	1.250	23.91
V0525006000VS-1041	5.250	6.000	0.375	1.187	44.94
V0525006250VS-1031*	5.250	6.250	0.500	1.250	46.58
V0537506250VS-1051	5.375	6.250	0.437	1.500	79.12
V0550006000VS-1031	5.500	6.000	0.250	0.750	14.56
V0550006000VS-1051	5.500	6.000	0.250	1.000	25.15
V0550006250VS-1071*	5.500	6.250	0.375	1.750	73.49
V0550006500VS-1031	5.500	6.500	0.500	1.250	60.98
V0550006500VS-1051	5.500	6.500	0.500	1.750	71.02
V0570006450VS-1211*	5.700	6.450	0.375	1.062	47.90
V0575006250VS-1051	5.750	6.250	0.250	1.000	27.71
V0575006250VS-1061*	5.750	6.250	0.250	1.125	29.86
V0575006500VS-1031	5.750	6.500	0.375	1.000	43.11
V0575006500VS-1051*	5.750	6.500	0.375	1.375	59.56
V0575006750VS-1051	5.750	6.750	0.500	1.750	89.54
V0600006500VS-1231	6.000	6.500	0.250	1.000	26.80
V0600006500VS-1241	6.000	6.500	0.250	1.125	31.47
V0600006750VS-1121	6.000	6.750	0.375	1.062	60.39
V0600007000VS-1041	6.000	7.000	0.500	1.437	71.15
V0600007250VS-1041*	6.000	7.250	0.625	1.812	101.20
V0625006875VS-1231	6.250	6.875	0.312	1.250	43.28
V0625007000VS-1041*	6.250	7.000	0.375	1.250	63.54
V0650007000VS-1141	6.500	7.000	0.250	1.062	30.59
V0650007000VS-1331*	6.500	7.000	0.250	1.375	35.04
V0650007250VS-1051	6.500	7.250	0.375	1.375	66.48
V0650007500VS-1041	6.500	7.500	0.500	1.437	82.82
V0675007250VS-1051	6.750	7.250	0.250	1.000	97.98
V0675007375VS-1231	6.750	7.375	0.312	1.250	57.60
V0675007500VS-1041	6.750	7.500	0.375	1.187	68.53
V0700007500VS-1231*	7.000	7.500	0.250	1.000	33.31
V0700007500VS-1241	7.000	7.500	0.250	1.125	38.04
V0700008000VS-1031	7.000	8.000	0.500	1.375	84.95
V0700008000VS-1331	7.000	8.000	0.500	2.187	124.17
V0725007750VS-1231*	7.250	7.750	0.250	1.000	87.80
V0750008000VS-1231	7.500	8.000	0.250	1.062	44.67
V0750008000VS-1331*	7.500	8.000	0.250	1.375	51.19
V0750008125VS-1231*	7.500	8.125	0.312	1.125	62.80
V0800008500VS-1121*	8.000	8.500	0.250	0.750	45.19
V0800008500VS-1231	8.000	8.500	0.250	1.000	40.78
V0800008750VS-1041*	8.000	8.750	0.375	1.187	187.06
V0800009000VS-1061	8.000	9.000	0.500	2.000	152.34
V0812508625VS-1151	8.125	8.625	0.250	1.062	49.57
V0825008750VS-1061	8.250	8.750	0.250	1.187	75.22
V0850009000VS-1231*	8.500	9.000	0.250	1.000	110.34
V0850009000VS-1331*	8.500	9.000	0.250	1.375	126.42
V0875009375VS-1061*	8.750	9.375	0.312	1.312	129.97
V0900009500VS-1071*	9.000	9.500	0.250	1.250	135.04
V0900010000VS-1051*	9.000	10.000	0.500	1.812	225.08
V0950010000VS-1051	9.500	10.000	0.250	1.062	158.08
V0950010000VS-1331*	9.500	10.000	0.250	1.375	180.52
V0950010500VS-1051	9.500	10.500	0.500	1.750	512.04
V1050011000VS-1051	10.500	11.000	0.250	1.000	141.31
V1050011500VS-1051*	10.500	11.500	0.500	1.875	281.90
V1100012000VS-1051	11.000	12.000	0.500	1.875	281.90
V1200013000VS-1051	12.000	13.000	0.500	1.875	357.52
V1300014000VS-1051	13.000	14.000	0.500	1.875	385.66
V1400015000VS-1051	14.000	15.000	0.500	1.875	513.08
V1500016000VS-1051	15.000	16.000	0.500	1.875	548.39

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

MV6225 - Vee Packings

Nitrile NBR 80A



Temperature: -40/250F [-40/121C]

Pressure: 1250 PSI [85 Bar]

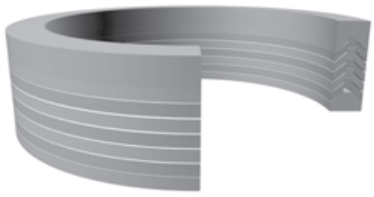
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
MV6225-01*	0.125	0.500	0.187	1.97
MV6225-02*	0.187	0.562	0.187	1.97
MV6225-03*	0.250	0.625	0.187	1.97
MV6225-04	0.312	0.687	0.187	1.97
MV6225-05*	0.375	0.750	0.187	1.97
MV6225-06*	0.437	0.812	0.187	2.34
MV6225-07*	0.500	0.875	0.187	2.11
MV6225-08*	0.250	0.750	0.250	2.14
MV6225-09*	0.312	0.812	0.250	2.17
MV6225-10*	0.375	0.875	0.250	2.20
MV6225-11*	0.437	0.937	0.250	2.26
MV6225-12*	0.500	1.000	0.250	2.59
MV6225-13*	0.562	1.062	0.250	2.31
MV6225-14	0.625	1.125	0.250	3.91
MV6225-15*	0.687	1.187	0.250	2.35
MV6225-16*	0.750	1.250	0.250	2.64
MV6225-17*	0.812	1.312	0.250	2.51
MV6225-18*	0.875	1.375	0.250	2.46
MV6225-19*	0.937	1.437	0.250	2.76
MV6225-20	1.000	1.500	0.250	2.88
MV6225-21*	1.062	1.562	0.250	2.89
MV6225-22*	1.125	1.625	0.250	2.96
MV6225-23*	1.187	1.687	0.250	2.99
MV6225-24*	1.250	1.750	0.250	3.04
MV6225-24/T*	1.250	1.750	0.250	7.99
MV6225-25*	1.250	1.875	0.312	3.10
MV6225-26*	1.375	2.000	0.312	3.15
MV6225-27	1.500	2.125	0.312	3.27
MV6225-28*	1.625	2.250	0.312	3.46
MV6225-29*	1.750	2.375	0.312	4.14
MV6225-30*	1.875	2.500	0.312	4.06
MV6225-31*	2.000	2.625	0.312	4.97
MV6225-32*	2.125	2.750	0.312	6.24
MV6225-33*	2.250	2.875	0.312	6.31
MV6225-34*	2.375	3.000	0.312	4.51

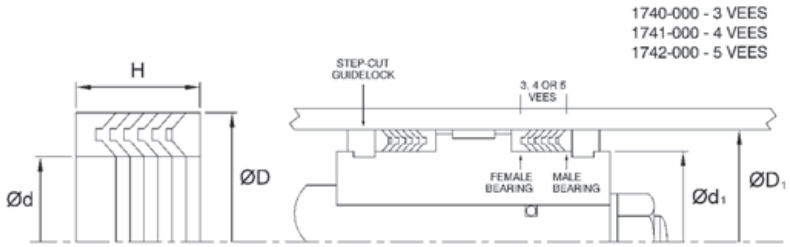
Ref.Number	Nominal Seal Dimensions			$
	d	D	Section	
MV6225-35*	2.500	3.125	0.312	7.09
MV6225-36*	2.500	3.250	0.375	5.36
MV6225-37*	2.625	3.375	0.375	3.65
MV6225-38*	2.750	3.500	0.375	7.90
MV6225-39*	2.875	3.625	0.375	7.11
MV6225-40*	3.000	3.750	0.375	7.04
MV6225-41*	3.125	3.875	0.375	8.08
MV6225-42*	3.250	4.000	0.375	8.39
MV6225-43*	3.375	4.125	0.375	9.85
MV6225-44*	3.500	4.250	0.375	9.32
MV6225-45*	3.625	4.375	0.375	10.27
MV6225-46*	3.750	4.500	0.375	10.14
MV6225-47*	3.875	4.625	0.375	10.86
MV6225-48*	3.875	4.750	0.437	16.50
MV6225-49*	4.000	5.000	0.500	32.24
MV6225-50*	4.250	5.125	0.437	15.18
MV6225-51*	4.500	5.375	0.437	12.96
MV6225-52*	4.750	5.625	0.437	15.25
MV6225-53*	5.000	5.875	0.437	15.45
MV6225-54*	5.250	6.125	0.437	16.11
MV6225-55*	5.500	6.375	0.437	17.41
MV6225-56*	5.500	6.500	0.500	18.55
MV6225-57*	5.750	6.750	0.500	16.72
MV6225-58*	6.000	7.000	0.500	19.12
MV6225-59*	6.250	7.250	0.500	19.81
MV6225-60*	6.500	7.500	0.500	20.49
MV6225-61*	6.750	7.750	0.500	30.97
MV6225-62*	7.000	8.000	0.500	31.97
MV6225-63*	7.250	8.250	0.500	32.97
MV6225-64*	7.500	8.500	0.500	33.31
MV6225-66*	8.000	9.000	0.500	33.98
MV6225-67*	8.500	9.500	0.500	34.77
MV6225-68	9.000	10.000	0.500	35.52
MV6225-70*	10.000	11.000	0.500	36.08
MV6225-76*	13.000	14.000	0.500	62.02

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

Hydrolock Vee Set

Hytrel/Nylon





Temperature: -40/220F [-40/104C] **Pressure: 6000 PSI [415 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
							d1	d2	1740	1741	1742	H2	
		Tol.	D	d	H	BEARING	+.000/-.003	+.005/-.005	H1 - TOL: +.005/-.000			+.005/-.000	
1742-150*	1.500	+.003/-.000	1.500	1.000			0.750	1.000	0.750	0.875	1.000	0.252	31.51
1742-150-050-FB*	1.500	+.003/-.000	1.500	1.000		0.500	0.750	1.000	1.000	1.125	1.250	0.252	32.19
1742-150-100-FB*	1.500	+.003/-.000	1.500	1.000		1.000	0.750	1.000	1.500	1.625	1.750	0.252	34.01
1742-175	1.750	+.003/-.000	1.750	1.250			1.000	1.250	0.750	0.875	1.000	0.252	40.87
1742-175-050-FB*	1.750	+.003/-.000	1.750	1.250		0.500	1.000	1.250	1.000	1.125	1.250	0.252	33.73
1742-175-100-FB*	1.750	+.003/-.000	1.750	1.250		1.000	1.000	1.250	1.500	1.625	1.750	0.252	35.16
1742-200	2.000	+.003/-.000	2.000	1.500			1.250	1.500	0.750	0.875	1.000	0.252	37.32
1742-200-050-FB*	2.000	+.003/-.000	2.000	1.500		0.500	1.250	1.500	1.000	1.125	1.250	0.252	37.33
1742-200-100-FB*	2.000	+.003/-.000	2.000	1.500		1.000	1.250	1.500	1.500	1.625	1.750	0.252	37.33
1742-225	2.250	+.003/-.000	2.250	1.750			1.500	1.750	0.750	0.875	1.000	0.252	27.54
1742-225-050-FB*	2.250	+.003/-.000	2.250	1.750		0.500	1.500	1.750	1.000	1.125	1.250	0.252	35.91
1742-225-100-FB*	2.250	+.003/-.000	2.250	1.750		1.000	1.500	1.750	1.500	1.625	1.750	0.252	38.67
1742-250	2.500	+.003/-.000	2.500	2.000			1.750	2.000	0.750	0.875	1.000	0.252	28.66
1742-250-050-FB	2.500	+.003/-.000	2.500	2.000		0.500	1.750	2.000	1.000	1.125	1.250	0.252	40.65
1742-250-100-FB	2.500	+.003/-.000	2.500	2.000		1.000	1.750	2.000	1.500	1.625	1.750	0.252	52.72
1742-275	2.750	+.003/-.000	2.750	2.250			2.000	2.250	0.750	0.875	1.000	0.252	46.09
1742-275-050-FB*	2.750	+.003/-.000	2.750	2.250		0.500	2.000	2.250	1.000	1.125	1.250	0.252	46.09
1742-275-100-FB	2.750	+.003/-.000	2.750	2.250		1.000	2.000	2.250	1.500	1.625	1.750	0.252	47.63
1742-300	3.000	+.003/-.000	3.000	2.500			2.250	2.500	0.750	0.875	1.000	0.252	39.51
1742-300-050-FB	3.000	+.003/-.000	3.000	2.500		0.500	2.250	2.500	1.000	1.125	1.250	0.252	42.71
1742-300-100-FB	3.000	+.003/-.000	3.000	2.500		1.000	2.250	2.500	1.500	1.625	1.750	0.252	66.46
1742-350	3.500	+.003/-.000	3.500	3.000			2.750	3.000	0.750	0.875	1.000	0.252	42.08
1742-350-050-FB	3.500	+.003/-.000	3.500	3.000		0.500	2.750	3.000	1.000	1.125	1.250	0.252	83.90
1742-350-100-FB	3.500	+.003/-.000	3.500	3.000		1.000	2.750	3.000	1.500	1.625	1.750	0.252	89.35
1742-400	4.000	+.003/-.000	4.000	3.500			3.250	3.500	0.750	0.875	1.000	0.377	55.91
1742-400-050-FB*	4.000	+.003/-.000	4.000	3.500		0.500	3.250	3.500	1.000	1.125	1.250	0.377	59.54
1742-400-100-FB	4.000	+.003/-.000	4.000	3.500		1.000	3.250	3.500	1.500	1.625	1.750	0.377	91.58
1742-450	4.500	+.003/-.000	4.500	4.000			3.750	4.000	0.750	0.875	1.000	0.377	57.66
1742-450-050-FB	4.500	+.003/-.000	4.500	4.000		0.500	3.750	4.000	1.000	1.125	1.250	0.377	61.03
1742-450-100-FB	4.500	+.003/-.000	4.500	4.000		1.000	3.750	4.000	1.500	1.625	1.750	0.377	93.87
1742-500	5.000	+.003/-.000	5.000	4.500			4.125	4.500	0.750	0.875	1.000	0.377	69.51
1742-500-050-FB	5.000	+.003/-.000	5.000	4.500		0.500	4.125	4.500	1.000	1.125	1.250	0.377	94.91
1742-500-075-FB*	5.000	+.003/-.000	5.000	4.500		0.750	4.125	4.500	1.250	1.375	1.500	0.377	99.95
1742-500-100-FB	5.000	+.003/-.000	5.000	4.500		1.000	4.125	4.500	1.500	1.625	1.750	0.377	102.82
1742-550	5.500	+.003/-.000	5.500	5.000			4.625	5.000	0.750	0.875	1.000	0.377	76.35
1742-550-050-FB*	5.500	+.003/-.000	5.500	5.000		0.500	4.625	5.000	1.000	1.125	1.250	0.377	97.13
1742-550-100-FB	5.500	+.003/-.000	5.500	5.000		1.000	4.620	5.000	1.500	1.625	1.750	0.377	112.80
1742-575*	5.750	+.003/-.000	5.750	5.250			4.875	5.250	0.750	0.875	1.000	0.377	81.82

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

HYDROLOCK VEE SETS SERIES - HYTREL/NYLON

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
							d1	d2	1740	1741	1742	H2	
		Tol.	D	d	H	BEARING	+.000/-.003	+.005/-.005	H1 - TOL: +.005/-.000			+.005/-.000	
1742-575-050-FB*	5.750	+.003/-.000	5.750	5.250		0.500	4.875	5.250	1.000	1.125	1.250	0.377	97.16
1742-575-100-FB*	5.750	+.003/-.000	5.750	5.250		1.000	4.875	5.250	1.500	1.625	1.750	0.377	112.84
1742-600	6.000	+.003/-.000	6.000	5.500			5.125	5.500	0.750	0.875	1.000	0.377	82.44
1742-600-050-FB	6.000	+.003/-.000	6.000	5.500		0.500	5.125	5.500	1.000	1.125	1.250	0.377	113.32
1742-600-100-FB	6.000	+.003/-.000	6.000	5.500		1.000	5.125	5.500	1.500	1.625	1.750	0.377	123.49
1741-602/503	6.020	+.003/-.000	6.020	5.030			N/A	5.030	N/A	1.500	N/A	N/A	100.55
1742-625	6.250	+.003/-.000	6.250	5.750			5.375	5.750	0.750	0.875	1.000	0.377	125.99
1742-625-050-FB*	6.250	+.003/-.000	6.250	5.750		0.500	5.375	5.750	1.000	1.125	1.250	0.377	126.20
1742-625-100-FB	6.250	+.003/-.000	6.250	5.750		1.000	5.375	5.750	1.500	1.625	1.750	0.377	127.27
1742-627*	6.270	+.003/-.000	6.270	5.770			5.375	5.770	0.750	0.875	1.000	0.377	107.29
1742-627-050-FB*	6.270	+.003/-.000	6.270	5.770		0.500	5.375	5.770	1.000	1.125	1.250	0.377	129.52
1742-627-100-FB*	6.270	+.003/-.000	6.270	5.770		1.000	5.375	5.770	1.500	1.625	1.750	0.377	139.49
1742-650	6.500	+.003/-.000	6.500	6.000			5.625	6.000	0.750	0.875	1.000	0.377	92.58
1742-650-050-FB	6.500	+.003/-.000	6.500	6.000		0.500	5.625	6.000	1.000	1.125	1.250	0.377	119.05
1742-650-100-FB	6.500	+.003/-.000	6.500	6.000		1.000	5.625	6.000	1.500	1.625	1.750	0.377	129.74
1742-652*	6.520	+.003/-.000	6.520	6.020			5.625	6.020	0.750	0.875	1.000	0.377	114.43
1742-652-050-FB*	6.520	+.003/-.000	6.520	6.020		0.500	5.625	6.020	1.000	1.125	1.250	0.377	128.74
1742-652-100-FB*	6.520	+.003/-.000	6.520	6.020		1.000	5.625	6.020	1.500	1.625	1.750	0.377	138.64
1742-700*	7.000	+.003/-.000	7.000	6.500			6.125	6.500	0.750	0.875	1.000	0.377	122.75
1742-700-050-FB	7.000	+.003/-.000	7.000	6.500		0.500	6.125	6.500	1.000	1.125	1.250	0.377	124.22
1742-700-100-FB	7.000	+.003/-.000	7.000	6.500		1.000	6.125	6.500	1.500	1.625	1.750	0.377	142.76
1742-702*	7.020	+.003/-.000	7.020	6.520			6.125	6.520	0.750	0.875	1.000	0.377	122.75
1742-702-050-FB*	7.020	+.003/-.000	7.020	6.520		0.500	6.125	6.520	1.000	1.125	1.250	0.377	131.04
1742-702-100-FB*	7.020	+.003/-.000	7.020	6.520		1.000	6.125	6.520	1.500	1.625	1.750	0.377	141.12
1742-725*	7.250	+.003/-.000	7.250	6.750			6.375	6.750	0.800	0.875	1.000	0.377	125.94
1742-725-050-FB*	7.250	+.003/-.000	7.250	6.750		0.500	6.375	6.750	1.000	1.125	1.250	0.377	136.75
1742-725-100-FB	7.250	+.003/-.000	7.250	6.750		1.000	6.375	6.750	1.500	1.625	1.750	0.377	146.77
1742-750*	7.500	+.003/-.000	7.500	7.000			6.625	7.000	0.750	0.875	1.000	0.377	139.20
1742-750-050-FB*	7.500	+.003/-.000	7.500	7.000		0.500	6.625	7.000	1.000	1.125	1.250	0.377	142.50
1742-750-100-FB	7.500	+.003/-.000	7.500	7.000		1.000	6.625	7.000	1.500	1.625	1.750	0.377	147.81
1742-800	8.000	+.003/-.000	8.000	7.500			7.125	7.500	0.800	0.925	1.050	0.377	148.64
1742-800-050-FB	8.000	+.003/-.000	8.000	7.500		0.500	7.125	7.500	1.000	1.125	1.250	0.377	152.35
1742-800-100-FB	8.000	+.003/-.000	8.000	7.500		1.000	7.125	7.500	1.500	1.625	1.750	0.377	158.39
1742-802*	8.020	+.003/-.000	8.020	7.520			7.125	7.520	0.800	0.925	1.050	0.377	152.36
1742-802-050-FB*	8.020	+.003/-.000	8.020	7.520		0.500	7.125	7.520	1.000	1.125	1.250	0.377	156.16
1742-802-100-FB*	8.020	+.003/-.000	8.020	7.520		1.000	7.125	7.520	1.500	1.625	1.750	0.377	162.35
1742-850*	8.500	+.003/-.000	8.500	8.000			7.625	8.000	0.800	0.925	1.050	0.377	156.16
1742-850-050-FB*	8.500	+.003/-.000	8.500	8.000		0.500	7.625	8.000	1.000	1.125	1.250	0.377	160.06
1742-850-100-FB*	8.500	+.003/-.000	8.500	8.000		1.000	7.625	8.000	1.500	1.625	1.750	0.377	166.41
1742-852*	8.520	+.003/-.000	8.520	8.020			7.625	8.020	0.800	0.925	1.050	0.377	160.07
1742-852-050-FB*	8.520	+.003/-.000	8.520	8.020		0.500	7.625	8.020	1.000	1.125	1.250	0.377	164.06
1742-852-100-FB*	8.520	+.003/-.000	8.520	8.020		1.000	7.625	8.020	1.500	1.625	1.750	0.377	170.57
1742-900	9.000	+.003/-.000	9.000	8.500			8.125	8.500	0.800	0.925	1.050	0.377	184.48
1742-900-050-FB	9.000	+.003/-.000	9.000	8.500		0.500	8.125	8.500	1.000	1.125	1.250	0.377	189.25
1742-900-100-FB	9.000	+.003/-.000	9.000	8.500		1.000	8.125	8.500	1.500	1.625	1.750	0.377	197.34
1742-902*	9.020	+.003/-.000	9.020	8.520			8.125	8.520	0.800	0.925	1.050	0.377	211.73
1742-902-050-FB*	9.020	+.003/-.000	9.020	8.520		0.500	8.125	8.520	1.000	1.125	1.250	0.377	217.02
1742-902-100-FB*	9.020	+.003/-.000	9.020	8.520		1.000	8.125	8.520	1.500	1.625	1.750	0.377	233.72

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

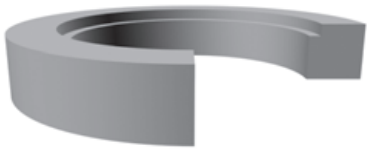
HYDROLOCK VEE SETS SERIES - HYTREL/NYLON

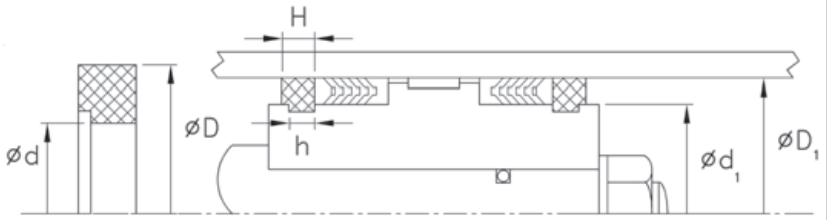
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions						$
							d1	d2	1740	1741	1742	H2	
		Tol.	D	d	H	BEARING	+.000/-.003	+.005/-.005	H1 - TOL: +.005/-.000			+.005/-.000	
1742-1000	10.000	+.003/-.000	10.000	9.500			9.125	9.500	0.800	0.925	1.050	0.377	323.74
1742-1000-050-FB	10.000	+.003/-.000	10.000	9.500		0.500	9.125	9.500	1.000	1.125	1.250	0.377	331.83
1742-1000-100-FB	10.000	+.003/-.000	10.000	9.500		1.000	9.125	9.500	1.500	1.625	1.750	0.377	340.12
1742-1002*	10.020	+.003/-.000	10.020	9.520			9.125	9.520	0.800	0.925	1.050	0.377	331.83
1742-1002-050-FB*	10.020	+.003/-.000	10.020	9.520		0.500	9.125	9.520	1.000	1.125	1.250	0.377	340.13
1742-1002-100-FB*	10.020	+.003/-.000	10.020	9.520		1.000	9.125	9.520	1.500	1.625	1.750	0.377	348.62
1742-1050*	10.500	+.003/-.000	10.500	10.000			9.625	10.000	0.860	0.985	1.110	0.377	367.80
1742-1050-050-FB*	10.500	+.003/-.000	10.500	10.000		0.500	9.625	10.000	1.000	1.125	1.250	0.377	375.29
1742-1050-100-FB*	10.500	+.003/-.000	10.500	10.000		1.000	9.625	10.000	1.500	1.625	1.750	0.377	404.16
1742-1052*	10.520	+.003/-.000	10.520	10.020			9.625	10.020	0.860	0.985	1.110	0.377	367.80
1742-1052-050-FB*	10.520	+.003/-.000	10.520	10.020		0.500	9.625	10.020	1.000	1.125	1.250	0.377	375.29
1742-1052-100-FB*	10.520	+.003/-.000	10.520	10.020		1.000	9.625	10.020	1.500	1.625	1.750	0.377	404.16
1742-1100-050-FB*	11.000	+.003/-.000	11.000	10.500		0.500	10.125	10.500	1.000	1.125	1.250	0.377	483.32
1742-1100-100-FB*	11.000	+.003/-.000	11.000	10.500		1.000	10.125	10.500	1.500	1.625	1.750	0.377	520.50
1742-1150-050-FB*	11.500	+.003/-.000	11.500	11.000		0.500	10.625	11.000	1.000	1.125	1.250	0.377	675.57
1742-1150-100-FB*	11.500	+.003/-.000	11.500	11.000		1.000	10.625	11.000	1.500	1.625	1.750	0.377	727.53
1742-1200-050-FB	12.000	+.003/-.000	12.000	11.500		0.500	11.125	11.500	1.000	1.125	1.250	0.377	709.39
1742-1200-100-FB	12.000	+.003/-.000	12.000	11.500		1.000	11.125	11.500	1.500	1.625	1.750	0.377	763.95
1742-1250-050-FB*	12.500	+.003/-.000	12.500	12.000		0.500	11.625	12.000	1.000	1.125	1.250	0.377	744.87
1742-1250-100-FB*	12.500	+.003/-.000	12.500	12.000		1.000	11.625	12.000	1.500	1.625	1.750	0.377	802.17
1742-1350-050-FB*	13.500	+.003/-.000	13.500	13.000		0.500	12.625	13.000	1.000	1.125	1.250	0.377	765.44
1742-1350-100-FB*	13.500	+.003/-.000	13.500	13.000		1.000	12.625	13.000	1.500	1.625	1.750	0.377	824.33
1742-1450-050-FB*	14.500	+.003/-.000	14.500	14.000		0.500	13.625	14.000	1.000	1.125	1.250	0.377	847.41
1742-1450-100-FB*	14.500	+.003/-.000	14.500	14.000		1.000	13.625	14.000	1.500	1.625	1.750	0.377	912.59

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

Guidelocks

Nylon





Temperature: -40/220F [-40/104] **Pressure:**

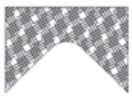
Ref.Number	Groove Dimensions				$
	D	d	h	H	
550-200*	2.000	1.250	0.255	0.312	17.67
550-250	2.500	1.750	0.255	0.335	22.74
550-300	3.000	2.250	0.255	0.340	23.31
550-350	3.500	2.750	0.255	0.340	25.53
550-400*	4.000	3.250	0.380	0.485	27.36
550-450	4.500	3.750	0.380	0.485	31.80
550-500	5.000	4.125	0.380	0.485	31.84
550-550	5.500	4.625	0.380	0.485	45.67

Ref.Number	Groove Dimensions				$
	D	d	h	H	
550-600	6.000	5.125	0.380	0.485	46.36
550-650	6.500	5.625	0.380	0.485	46.79
550-700	7.000	6.125	0.380	0.485	59.32
550-750*	7.500	6.625	0.380	0.485	70.56
550-800	8.000	7.125	0.380	0.485	71.87
550-850*	8.500	7.625	0.380	0.485	72.10
550-900	9.000	8.125	0.380	0.485	98.04
550-1000*	10.000	9.125	0.380	0.485	116.04

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

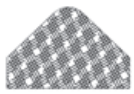
Vee Coil

Neo-Fabric



FEMALE (F)

CENTER RING (V)



MALE (M)

Temperature: -40/250F [-40/121C] **Pressure: N/A**

Ref.Number	Nominal Packing Dimensions			$ Per Foot
	Section	Mandrel	h	
VC00250F-02*	0.250	2.000	0.250	31.39
VC00250M-02*	0.250	2.000	0.171	14.38
VC00250V-02*	0.250	2.000	0.109	15.96
VC00250F-04*	0.250	4.000	0.250	31.39
VC00250M-04*	0.250	4.000	0.171	14.38
VC00250V-04*	0.250	4.000	0.109	15.96
VC00312F-02*	0.312	2.000	0.313	33.28
VC00312M-02*	0.312	2.000	0.234	15.17
VC00312V-02*	0.312	2.000	0.172	18.26
VC00312F-05*	0.312	5.000	0.313	33.28
VC00312M-05*	0.312	5.000	0.234	15.17
VC00312V-05*	0.312	5.000	0.172	18.26
VC00375F-03*	0.375	3.000	0.375	37.18
VC00375M-03*	0.375	3.000	0.063	17.11
VC00375V-03*	0.375	3.000	0.188	18.96
VC00375F-06	0.375	6.000	0.375	37.18
VC00375M-06	0.375	6.000	0.063	17.11
VC00375V-06	0.375	6.000	0.188	18.96
VC00437F-04*	0.437	4.000	0.438	43.45
VC00437M-04*	0.437	4.000	0.063	19.77
VC00437V-04*	0.437	4.000	0.234	26.05
VC00437F-09*	0.437	9.000	0.438	43.30
VC00437M-09*	0.437	9.000	0.063	18.66
VC00437V-09*	0.437	9.000	0.234	25.91
VC00500F-04*	0.500	4.000	0.532	41.45
VC00500M-04*	0.500	4.000	0.063	18.96
VC00500V-04*	0.500	4.000	0.234	23.90
VC00500F-09	0.500	9.000	0.532	41.45
VC00500M-09	0.500	9.000	0.063	18.96
VC00500V-09	0.500	9.000	0.234	23.90
VC00562F-05*	0.562	5.000	0.594	54.62
VC00562M-05*	0.562	5.000	0.296	24.38
VC00562V-05*	0.562	5.000	0.234	31.12
VC00562F-11*	0.562	11.000	0.594	54.48

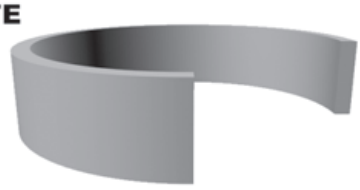
Ref.Number	Nominal Packing Dimensions			$ Per Foot
	Section	Mandrel	h	
VC00562M-11*	0.562	11.000	0.296	24.38
VC00562V-11*	0.562	11.000	0.234	31.25
VC00625F-05*	0.625	5.000	0.657	49.60
VC00625M-05*	0.625	5.000	0.063	21.91
VC00625V-05*	0.625	5.000	0.063	27.88
VC00625F-11	0.625	11.000	0.657	49.60
VC00625M-11	0.625	11.000	0.063	21.91
VC00625V-11	0.625	11.000	0.281	27.88
VC00750F-09*	0.750	9.000	0.781	58.06
VC00750M-09*	0.750	9.000	0.063	26.61
VC00750V-09*	0.750	9.000	0.328	33.79
VC00750F-13	0.750	13.000	0.781	58.06
VC00750M-13	0.750	13.000	0.063	26.61
VC00750V-13	0.750	13.000	0.328	33.79
VC00750F-24	0.750	24.000	0.781	58.06
VC00750M-24	0.750	24.000	0.063	26.61
VC00750V-24	0.750	24.000	0.328	33.79
VC00875F-11*	0.875	11.000	0.938	78.75
VC00875M-11*	0.875	11.000	0.063	35.97
VC00875V-11*	0.875	11.000	0.375	41.76
VC00875F-16*	0.875	16.000	0.938	78.75
VC00875M-16*	0.875	16.000	0.063	35.97
VC00875V-16*	0.875	16.000	0.375	41.76
VC00875F-24*	0.875	24.000	0.938	78.75
VC00875M-24*	0.875	24.000	0.063	35.97
VC00875V-24	0.875	24.000	0.375	41.76
VC01000F-13	1.000	13.000	1.062	99.11
VC01000M-13*	1.000	13.000	0.063	45.23
VC01000V-13*	1.000	13.000	0.406	52.43
VC01000F-18*	1.000	18.000	1.062	99.11
VC01000M-18*	1.000	18.000	0.063	45.23
VC01000V-18*	1.000	18.000	0.406	52.43
VC01000F-24	1.000	24.000	1.062	99.11
VC01000M-24	1.000	24.000	0.063	45.23
VC01000V-24	1.000	24.000	0.406	52.43

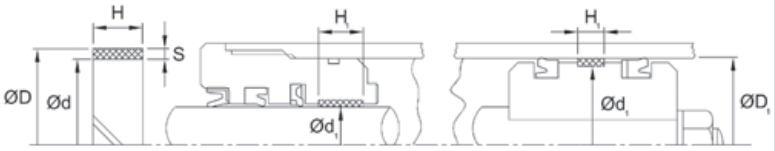
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	W1234	F	2
	W2-PB	F	14
	Dynamax	F	16
	W1234 DX	F	18
	TWR	F	22
	WS-BR60	F	23
	WS-PR	F	24
	BEARING TEL. CYLINDERS	F	25
	54 BEARINGS	F	27
	“DU” BEARING	F	33
	SBB/Z	F	35
	SBB-2RS/Z	F	36

WEAR RING
W1, W2, W3, W4, WR

Nylon
BR.PTFE





Temperature: -40/250F [-40/121C]
BR Temperature: -148/392F [-100/200C] Pressure:

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 Ring C/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.

W1234 SERIES - NYLON, BR.PTFE

1/16" - Cross Section - 0.062"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W1006250500*	0.625	0.500	0.625	0.500	0.062	5.55
W1008750375*	0.875	0.750	0.875	0.375	0.062	4.56
W1008750500	0.875	0.750	0.875	0.500	0.062	10.54
W1010000500*	1.000	0.875	1.000	0.500	0.062	7.51
W1011250375*	1.125	1.000	1.125	0.375	0.062	6.47
W1011250500	1.125	1.000	1.125	0.500	0.062	6.47
W1012500500	1.250	1.125	1.250	0.500	0.062	12.00
W1013750500	1.375	1.250	1.375	0.500	0.062	8.42
W1013750980	1.375	1.250	1.375	0.980	0.062	14.64
W1015000375	1.500	1.375	1.500	0.375	0.062	9.31
W1015000500	1.500	1.375	1.500	0.500	0.062	6.72
W1016250500	1.625	1.500	1.625	0.500	0.062	8.06
W1016250625	1.625	1.500	1.625	0.625	0.062	9.13
W1016250830	1.625	1.500	1.625	0.830	0.062	9.85
W1016250980	1.625	1.500	1.625	0.980	0.062	8.42
W1016251000	1.625	1.500	1.625	1.000	0.062	5.90
W1016251250	1.625	1.500	1.625	1.250	0.062	17.70
W1016252090*	1.625	1.500	1.625	2.090	0.062	35.08
W1016500500*	1.650	1.525	1.650	0.500	0.062	7.38
W1016700500	1.670	1.545	1.670	0.500	0.062	6.35
W1017500500	1.750	1.625	1.750	0.500	0.062	12.72
W1018750980	1.875	1.750	1.875	0.980	0.062	20.71
W1018751000	1.875	1.750	1.875	1.000	0.062	5.70
W1020000260	2.000	1.875	2.000	0.260	0.062	18.53
W1020000312	2.000	1.875	2.000	0.312	0.062	8.95
W1020000730	2.000	1.875	2.000	0.730	0.062	21.01
W1020000980	2.000	1.875	2.000	0.980	0.062	27.62
W1021250750	2.125	2.000	2.125	0.750	0.062	17.04
W1021250980	2.125	2.000	2.125	0.980	0.062	5.60
W1021251000	2.125	2.000	2.125	1.000	0.062	7.23
W1021251250	2.125	2.000	2.125	1.250	0.062	26.45
W1021251570	2.125	2.000	2.125	1.570	0.062	36.38
W1022500370*	2.250	2.125	2.250	0.370	0.062	43.88
W1022500730*	2.250	2.125	2.250	0.730	0.062	43.24
W1022500980	2.250	2.125	2.250	0.980	0.062	24.20
W1023750980	2.375	2.250	2.375	0.980	0.062	31.16
W1023751000	2.375	2.250	2.375	1.000	0.062	22.87
W1023751180	2.375	2.250	2.375	1.180	0.062	27.85
W1023751480	2.375	2.250	2.375	1.480	0.062	22.40
W1023751500	2.375	2.250	2.375	1.500	0.062	7.25
W1025000312	2.500	2.375	2.500	0.312	0.062	9.03
W1025000500	2.500	2.375	2.500	0.500	0.062	14.58

1/16" - Cross Section - 0.062"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W1025001260	2.500	2.375	2.500	1.260	0.062	15.23
W1026250500	2.625	2.500	2.625	0.500	0.062	17.59
W1026250980	2.625	2.500	2.625	0.980	0.062	30.25
W1026251000	2.625	2.500	2.625	1.000	0.062	10.19
W1026251250	2.625	2.500	2.625	1.250	0.062	34.66
W1026251480	2.625	2.500	2.625	1.480	0.062	14.07
W1026251500	2.625	2.500	2.625	1.500	0.062	10.79
W1026251690	2.625	2.500	2.625	1.690	0.062	44.26
W1027500500*	2.750	2.625	2.750	0.500	0.062	22.83
W1027500980	2.750	2.625	2.750	0.980	0.062	12.55
W1027501000	2.750	2.625	2.750	1.000	0.062	18.50
W1028750975*	2.875	2.750	2.875	0.975	0.062	15.89
W1028751000	2.875	2.750	2.875	1.000	0.062	37.50
W1028751260	2.875	2.750	2.875	1.260	0.062	31.48
W1028751500	2.875	2.750	2.875	1.500	0.062	10.22
W1028751570	2.875	2.750	2.875	1.570	0.062	44.33
W1028751790*	2.875	2.750	2.875	1.790	0.062	45.33
W1028751810	2.875	2.750	2.875	1.810	0.062	28.50
W1031250500*	3.125	3.000	3.125	0.500	0.062	7.83
W1031250980	3.125	3.000	3.125	0.980	0.062	13.35
W1031251240*	3.125	3.000	3.125	1.240	0.062	62.37
W1031251260	3.125	3.000	3.125	1.260	0.062	29.33
W1031251480	3.125	3.000	3.125	1.480	0.062	20.43
W1031251500	3.125	3.000	3.125	1.500	0.062	11.36
W1031251562*	3.125	3.000	3.125	1.562	0.062	69.13
W1031251570	3.125	3.000	3.125	1.570	0.062	28.07
W1031251650	3.125	3.000	3.125	1.650	0.062	35.30
W1031870312*	3.187	3.062	3.187	0.312	0.062	11.61
W1032500312	3.250	3.125	3.250	0.312	0.062	9.21
W1033751120	3.375	3.250	3.375	1.120	0.062	36.63
W1033751730*	3.375	3.250	3.375	1.730	0.062	62.86
W1033751875*	3.375	3.250	3.375	1.875	0.062	52.72
W1036251060	3.625	3.500	3.625	1.060	0.062	42.40
W1036251480*	3.625	3.500	3.625	1.480	0.062	14.17
W1036251880	3.625	3.500	3.625	1.880	0.062	50.89
W1038751570	3.875	3.750	3.875	1.570	0.062	69.57
W1040000312 *	4.000	3.875	4.000	0.312	0.062	16.26
W1040000312/BR60*	4.000	3.875	4.000	0.312	0.062	47.52
W1050000437	5.000	4.875	5.000	0.437	0.062	17.21
W1050000437/BR60*	5.000	4.875	5.000	0.437	0.062	64.18
W1060000437*	6.000	5.875	6.000	0.437	0.062	19.82
W1060000437/BR60*	6.000	5.875	6.000	0.437	0.062	82.26

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

W1234 SERIES - NYLON, BR.PTFE

5/64" - Cross Section - 0.078"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR012500500-078	1.250	1.094	1.250	0.500	0.078	10.21
WR016600625-078*	1.660	1.503	1.660	0.625	0.078	10.92

3/32" - Cross Section - 0.094"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR012500187-094*	1.250	1.062	1.250	0.187	0.094	3.22
WR015000187-094*	1.500	1.312	1.500	0.187	0.094	3.99
WR015000375-094	1.500	1.312	1.500	0.375	0.094	10.88
WR020000187-094*	2.000	1.812	2.000	0.187	0.094	3.99
WR020000375-094	2.000	1.812	2.000	0.375	0.094	11.39
WR025000375-094	2.500	2.312	2.500	0.375	0.094	11.57
WR025501500-094*	2.550	2.362	2.550	1.500	0.094	15.47
WR028501000-094*	2.850	2.662	2.850	1.000	0.094	11.24
WR032500375-094	3.250	3.062	3.250	0.375	0.094	12.10
WR033120625-094*	3.312	3.125	3.312	0.625	0.094	5.75
WR035000500-094	3.500	3.312	3.500	0.500	0.094	6.38
WR035000750-094*	3.500	3.312	3.500	0.750	0.094	5.57
WR036250218-094*	3.625	3.437	3.625	0.218	0.094	7.62
WR039370218-094*	3.937	3.750	3.937	0.218	0.094	3.17
WR040000375-094	4.000	3.812	4.000	0.375	0.094	13.39
WR050000500-094	5.000	4.812	5.000	0.500	0.094	14.60
WR060000500-094*	6.000	5.812	6.000	0.500	0.094	15.04
WR080000375-094*	8.000	7.812	8.000	0.375	0.094	32.28

3/31" - Cross Section - 0.096"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR030000212-096	3.000	2.808	3.000	0.212	0.096	3.02
WR032500212-096	3.250	3.058	3.250	0.212	0.096	11.67
WR036250212-096	3.625	3.433	3.625	0.212	0.096	7.62

0.098" - Cross Section - 0.098"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR020000190-098	2.000	1.804	2.000	0.190	0.098	3.76
WR027002280-098	2.700	2.500	2.700	2.280	0.098	66.43
WR029501970-098	2.950	2.750	2.950	1.970	0.098	55.80
WR030000990-098*	3.000	2.800	3.000	0.990	0.098	13.46
WR032001180-098	3.200	3.000	3.200	1.180	0.098	47.32
WR032501125-098*	3.250	3.050	3.250	1.125	0.098	51.33
WR034501610-098	3.450	3.250	3.450	1.610	0.098	45.79
WR034501970-098	3.450	3.250	3.450	1.970	0.098	51.81
WR034502760-098	3.450	3.250	3.450	2.760	0.098	74.86

0.098" - Cross Section - 0.098"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR037001770-098	3.700	3.500	3.700	1.770	0.098	83.78
WR037001880-098	3.700	3.500	3.700	1.880	0.098	75.22
WR037002360-098	3.700	3.500	3.700	2.360	0.098	58.73
WR039502440-098	3.950	3.750	3.950	2.440	0.098	85.97
WR040000212-098	4.000	3.800	4.000	0.212	0.098	7.23
WR040001312-098*	4.000	3.800	4.000	1.312	0.098	46.25
WR042001312-098*	4.200	4.000	4.200	1.312	0.098	36.26
WR042001570-098	4.200	4.000	4.200	1.570	0.098	71.24
WR042002560-098	4.200	4.000	4.200	2.560	0.098	59.98
WR044502360-098	4.450	4.250	4.450	2.360	0.098	67.03
WR047001970-098	4.700	4.500	4.700	1.970	0.098	41.44
WR049501970-098	4.950	4.750	4.950	1.970	0.098	84.55
WR052002520-098	5.200	5.000	5.200	2.520	0.098	83.78
WR054502500-098	5.450	5.250	5.450	2.500	0.098	63.87
WR059501970-098*	5.950	5.750	5.950	1.970	0.098	84.67
WR059503620-098	5.950	5.750	5.950	3.620	0.098	126.83
WR062001960-098	6.200	6.000	6.200	1.960	0.098	61.19
WR067002270-098*	6.700	6.500	6.700	2.270	0.098	137.93
WR072003150-098	7.200	7.000	7.200	3.150	0.098	113.41
WR074502360-098	7.450	7.250	7.450	2.360	0.098	151.69
WR077003122-098*	7.700	7.500	7.700	3.122	0.098	129.51
WR082002950-098	8.200	8.000	8.200	2.950	0.098	164.34
WR089502950-098	8.950	8.750	8.950	2.950	0.098	207.30

1/10" - Cross Section - 0.100"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR052003000-100*	5.200	5.000	5.200	3.000	0.100	92.44
WR052003000-100/BZ*	5.200	5.000	5.200	3.000	0.100	335.57
WR062003000-100/BZ	6.200	6.000	6.200	3.000	0.100	391.99
WR092003000-100/BZ	9.200	9.000	9.200	3.000	0.100	645.13

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2010000375	1.000	0.750	1.000	0.375	0.125	3.44
W2010000500	1.000	0.750	1.000	0.500	0.125	3.12
W2010000625	1.000	0.750	1.000	0.625	0.125	3.28
W2011250375	1.125	0.875	1.125	0.375	0.125	3.44
W2011250500	1.125	0.875	1.125	0.500	0.125	7.28
W2012500250	1.250	1.000	1.250	0.250	0.125	5.70
W2012500375	1.250	1.000	1.250	0.375	0.125	3.44
W2012500500	1.250	1.000	1.250	0.500	0.125	4.18
W2012500625	1.250	1.000	1.250	0.625	0.125	3.34

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

W1234 SERIES - NYLON, BR.PTFE

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2012500750	1.250	1.000	1.250	0.750	0.125	4.20
W2012501000	1.250	1.000	1.250	1.000	0.125	5.08
W2013750500	1.375	1.125	1.375	0.500	0.125	4.00
W2013750750	1.375	1.125	1.375	0.750	0.125	4.12
W2013751000*	1.375	1.125	1.375	1.000	0.125	5.08
W2015000250	1.500	1.250	1.500	0.250	0.125	2.68
W2015000375	1.500	1.250	1.500	0.375	0.125	3.44
W2015000500	1.500	1.250	1.500	0.500	0.125	3.44
W2015000625	1.500	1.250	1.500	0.625	0.125	3.44
W2015000750	1.500	1.250	1.500	0.750	0.125	4.78
W2015001000	1.500	1.250	1.500	1.000	0.125	7.95
W2016250375	1.625	1.375	1.625	0.375	0.125	4.59
W2016250500	1.625	1.375	1.625	0.500	0.125	3.38
W2017500250	1.750	1.500	1.750	0.250	0.125	3.38
W2017500375	1.750	1.500	1.750	0.375	0.125	3.48
W2017500500	1.750	1.500	1.750	0.500	0.125	3.38
W2017500625	1.750	1.500	1.750	0.625	0.125	4.48
W2017500750	1.750	1.500	1.750	0.750	0.125	4.35
W2017501000	1.750	1.500	1.750	1.000	0.125	5.01
W2018750500	1.875	1.625	1.875	0.500	0.125	3.57
W2018750750	1.875	1.625	1.875	0.750	0.125	3.82
W2018751000*	1.875	1.625	1.875	1.000	0.125	5.18
W2020000160*	2.000	1.750	2.000	0.160	0.125	14.72
W2020000250	2.000	1.750	2.000	0.250	0.125	2.95
W2020000250/T	2.000	1.750	2.000	0.250	0.125	23.20
W2020000312	2.000	1.750	2.000	0.312	0.125	6.92
W2020000375	2.000	1.750	2.000	0.375	0.125	3.48
W2020000500	2.000	1.750	2.000	0.500	0.125	3.66
W2020000625	2.000	1.750	2.000	0.625	0.125	3.75
W2020000750	2.000	1.750	2.000	0.750	0.125	3.89
W2020001000	2.000	1.750	2.000	1.000	0.125	6.75
W2020001250	2.000	1.750	2.000	1.250	0.125	14.09
W2020001500	2.000	1.750	2.000	1.500	0.125	28.24
W2021250375*	2.125	1.875	2.125	0.375	0.125	3.66
W2021250500	2.125	1.875	2.125	0.500	0.125	4.14
W2021250750*	2.125	1.875	2.125	0.750	0.125	3.75
W2021870260*	2.187	1.937	2.187	0.260	0.125	3.34
W2021871000	2.187	1.937	2.187	1.000	0.125	7.07
W2022500187	2.250	2.000	2.250	0.187	0.125	3.76
W2022500250	2.250	2.000	2.250	0.250	0.125	3.05
W2022500312*	2.250	2.000	2.250	0.312	0.125	3.66
W2022500375	2.250	2.000	2.250	0.375	0.125	3.66
W2022500500	2.250	2.000	2.250	0.500	0.125	3.66
W2022500625	2.250	2.000	2.250	0.625	0.125	3.84

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2022500750	2.250	2.000	2.250	0.750	0.125	3.78
W2022500875	2.250	2.000	2.250	0.875	0.125	6.86
W2022500890	2.250	2.000	2.250	0.890	0.125	15.39
W2022501000	2.250	2.000	2.250	1.000	0.125	9.32
W2022501250	2.250	2.000	2.250	1.250	0.125	39.41
W2022501500	2.250	2.000	2.250	1.500	0.125	13.67
W2023750500	2.375	2.125	2.375	0.500	0.125	3.78
W2023750750	2.375	2.125	2.375	0.750	0.125	4.53
W2025000160*	2.500	2.250	2.500	0.160	0.125	9.17
W2025000187	2.500	2.250	2.500	0.187	0.125	4.10
W2025000250	2.500	2.250	2.500	0.250	0.125	3.38
W2025000250BR40*	2.500	2.250	2.500	0.250	0.125	20.61
W2025000312	2.500	2.250	2.500	0.312	0.125	3.44
W2025000375	2.500	2.250	2.500	0.375	0.125	3.78
W2025000500	2.500	2.250	2.500	0.500	0.125	3.80
W2025000500BR60*	2.500	2.250	2.500	0.500	0.125	17.43
W2025000625	2.500	2.250	2.500	0.625	0.125	4.08
W2025000740*	2.500	2.250	2.500	0.740	0.125	8.11
W2025000750	2.500	2.250	2.500	0.750	0.125	4.53
W2025000875*	2.500	2.250	2.500	0.875	0.125	7.25
W2025001000	2.500	2.250	2.500	1.000	0.125	5.01
W2025001250	2.500	2.250	2.500	1.250	0.125	17.47
W2025001500	2.500	2.250	2.500	1.500	0.125	12.03
W2026250500	2.625	2.375	2.625	0.500	0.125	6.56
W2026250625*	2.625	2.375	2.625	0.625	0.125	4.14
W2026250750*	2.625	2.375	2.625	0.750	0.125	4.62
W2026251000	2.625	2.375	2.625	1.000	0.125	19.41
W2027500250	2.750	2.500	2.750	0.250	0.125	3.02
W2027500312	2.750	2.500	2.750	0.312	0.125	3.84
W2027500375	2.750	2.500	2.750	0.375	0.125	3.84
W2027500500	2.750	2.500	2.750	0.500	0.125	3.84
W2027500625	2.750	2.500	2.750	0.625	0.125	4.14
W2027500750	2.750	2.500	2.750	0.750	0.125	4.71
W2027500940	2.750	2.500	2.750	0.940	0.125	11.56
W2027501000	2.750	2.500	2.750	1.000	0.125	4.95
W2027501500	2.750	2.500	2.750	1.500	0.125	13.93
W2027501750	2.750	2.500	2.750	1.750	0.125	33.85
W2027502000	2.750	2.500	2.750	2.000	0.125	16.74
W2028750500*	2.875	2.625	2.875	0.500	0.125	4.72
W2028750750	2.875	2.625	2.875	0.750	0.125	7.50
W2028750875	2.875	2.625	2.875	0.875	0.125	13.35
W2028751000	2.875	2.625	2.875	1.000	0.125	4.98
W2030000160	3.000	2.750	3.000	0.160	0.125	17.67
W2030000250	3.000	2.750	3.000	0.250	0.125	3.53

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

W1234 SERIES - NYLON, BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2030000312	3.000	2.750	3.000	0.312	0.125	3.78
W2030000375	3.000	2.750	3.000	0.375	0.125	3.90
W2030000500	3.000	2.750	3.000	0.500	0.125	3.90
W2030000570*	3.000	2.750	3.000	0.570	0.125	5.90
W2030000625	3.000	2.750	3.000	0.625	0.125	4.14
W2030000750	3.000	2.750	3.000	0.750	0.125	4.49
W2030000990*	3.000	2.750	3.000	0.990	0.125	14.48
W2030001000	3.000	2.750	3.000	1.000	0.125	4.35
W2030001250	3.000	2.750	3.000	1.250	0.125	19.08
W2030001500	3.000	2.750	3.000	1.500	0.125	12.93
W2030001562*	3.000	2.750	3.000	1.562	0.125	15.62
W2030620250*	3.062	2.812	3.062	0.250	0.125	6.93
W2031250500	3.125	2.875	3.125	0.500	0.125	5.86
W2031251000*	3.125	2.875	3.125	1.000	0.125	6.88
W2032500250	3.250	3.000	3.250	0.250	0.125	3.78
W2032500312	3.250	3.000	3.250	0.312	0.125	3.84
W2032500375	3.250	3.000	3.250	0.375	0.125	4.00
W2032500500	3.250	3.000	3.250	0.500	0.125	4.00
W2032500625	3.250	3.000	3.250	0.625	0.125	4.36
W2032500750	3.250	3.000	3.250	0.750	0.125	4.49
W2032500750S	3.250	3.000	3.250	0.750	0.125	3.76
W2032501000	3.250	3.000	3.250	1.000	0.125	4.81
W2032501130	3.250	3.000	3.250	1.130	0.125	14.70
W2032501250	3.250	3.000	3.250	1.250	0.125	17.90
W2032501500	3.250	3.000	3.250	1.500	0.125	13.82
W2032501550*	3.250	3.000	3.250	1.550	0.125	19.41
W2032501562*	3.250	3.000	3.250	1.562	0.125	19.07
W2032501625*	3.250	3.000	3.250	1.625	0.125	17.40
W2032502000	3.250	3.000	3.250	2.000	0.125	22.94
W2032502125*	3.250	3.000	3.250	2.125	0.125	23.70
W2033750500	3.375	3.125	3.375	0.500	0.125	4.20
W2033750750*	3.375	3.125	3.375	0.750	0.125	4.49
W2035000160	3.500	3.250	3.500	0.160	0.125	19.53
W2035000250	3.500	3.250	3.500	0.250	0.125	4.26
W2035000375	3.500	3.250	3.500	0.375	0.125	3.98
W2035000437*	3.500	3.250	3.500	0.437	0.125	9.53
W2035000500	3.500	3.250	3.500	0.500	0.125	4.04
W2035000500S	3.500	3.250	3.500	0.500	0.125	4.04
W2035000625	3.500	3.250	3.500	0.625	0.125	4.49
W2035000750	3.500	3.250	3.500	0.750	0.125	4.51
W2035000750S	3.500	3.250	3.500	0.750	0.125	4.96
W2035000875	3.500	3.250	3.500	0.875	0.125	9.29
W2035001000	3.500	3.250	3.500	1.000	0.125	4.88
W2035001120	3.500	3.250	3.500	1.120	0.125	12.49

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2035001250	3.500	3.250	3.500	1.250	0.125	17.95
W2035001500	3.500	3.250	3.500	1.500	0.125	13.95
W2036250500	3.625	3.375	3.625	0.500	0.125	8.07
W2036250625	3.625	3.375	3.625	0.625	0.125	7.07
W2036250750	3.625	3.375	3.625	0.750	0.125	4.51
W2036251000	3.625	3.375	3.625	1.000	0.125	16.18
W2037500250	3.750	3.500	3.750	0.250	0.125	3.06
W2037500375	3.750	3.500	3.750	0.375	0.125	5.11
W2037500500	3.750	3.500	3.750	0.500	0.125	4.10
W2037500625	3.750	3.500	3.750	0.625	0.125	4.61
W2037500750	3.750	3.500	3.750	0.750	0.125	4.71
W2037501000	3.750	3.500	3.750	1.000	0.125	4.92
W2037501250	3.750	3.500	3.750	1.250	0.125	17.95
W2037501490*	3.750	3.500	3.750	1.490	0.125	25.99
W2037501500	3.750	3.500	3.750	1.500	0.125	21.08
W2037502000	3.750	3.500	3.750	2.000	0.125	34.84
W2038750250*	3.875	3.625	3.875	0.250	0.125	5.61
W2038751000	3.875	3.625	3.875	1.000	0.125	13.19
W2040000160	4.000	3.750	4.000	0.160	0.125	25.19
W2040000250	4.000	3.750	4.000	0.250	0.125	8.70
W2040000312	4.000	3.750	4.000	0.312	0.125	12.23
W2040000375	4.000	3.750	4.000	0.375	0.125	5.11
W2040000375BR40	4.000	3.750	4.000	0.375	0.125	40.97
W2040000500	4.000	3.750	4.000	0.500	0.125	4.10
W2040000570*	4.000	3.750	4.000	0.570	0.125	5.99
W2040000625	4.000	3.750	4.000	0.625	0.125	4.81
W2040000710	4.000	3.750	4.000	0.710	0.125	10.00
W2040000750	4.000	3.750	4.000	0.750	0.125	4.51
W2040000875	4.000	3.750	4.000	0.875	0.125	9.48
W2040000990*	4.000	3.750	4.000	0.990	0.125	18.13
W2040001000	4.000	3.750	4.000	1.000	0.125	6.03
W2040001250	4.000	3.750	4.000	1.250	0.125	11.90
W2040001500	4.000	3.750	4.000	1.500	0.125	29.26
W2040002000	4.000	3.750	4.000	2.000	0.125	28.29
W2041250420*	4.125	3.875	4.125	0.420	0.125	16.38
W2041251000*	4.125	3.875	4.125	1.000	0.125	14.93
W2042500250	4.250	4.000	4.250	0.250	0.125	10.83
W2042500375	4.250	4.000	4.250	0.375	0.125	5.25
W2042500500	4.250	4.000	4.250	0.500	0.125	4.22
W2042500500BR40*	4.250	4.000	4.250	0.500	0.125	48.00
W2042500625	4.250	4.000	4.250	0.625	0.125	4.81
W2042500750	4.250	4.000	4.250	0.750	0.125	4.98
W2042500750S	4.250	4.000	4.250	0.750	0.125	6.60
W2042500875	4.250	4.000	4.250	0.875	0.125	21.95

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

W1234 SERIES - NYLON, BR.PTFE

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2042501000	4.250	4.000	4.250	1.000	0.125	6.45
W2042501250	4.250	4.000	4.250	1.250	0.125	13.13
W2042501500	4.250	4.000	4.250	1.500	0.125	24.85
W2042501890	4.250	4.000	4.250	1.890	0.125	24.85
w2042502000	4.250	4.000	4.250	2.000	0.125	57.25
W2042502500	4.250	4.000	4.250	2.500	0.125	29.49
W2042502750	4.250	4.000	4.250	2.750	0.125	61.89
W2042600500*	4.260	4.010	4.260	0.500	0.125	12.73
W2044000625*	4.400	4.150	4.400	0.625	0.125	4.81
W2045000180	4.500	4.000	4.500	0.180	0.125	10.67
W2045000250	4.500	4.000	4.500	0.250	0.125	4.73
W2045000375	4.500	4.250	4.500	0.375	0.125	5.34
W2045000500	4.500	4.250	4.500	0.500	0.125	4.31
W2045000500S	4.500	4.250	4.500	0.500	0.125	4.31
W2045000625	4.500	4.250	4.500	0.625	0.125	4.81
W2045000750	4.500	4.250	4.500	0.750	0.125	4.70
W2045000750S	4.500	4.250	4.500	0.750	0.125	6.75
W2045000875	4.500	4.250	4.500	0.875	0.125	11.11
W2045000930	4.500	4.250	4.500	0.930	0.125	14.33
W2045000990*	4.500	4.250	4.500	0.990	0.125	13.68
W2045001000	4.500	4.250	4.500	1.000	0.125	6.45
W2045001250	4.500	4.250	4.500	1.250	0.125	21.08
W2045001500	4.500	4.250	4.500	1.500	0.125	20.17
W2045001870	4.500	4.250	4.500	1.870	0.125	32.73
W2045002360*	4.500	4.250	4.500	2.360	0.125	54.53
W2046251000	4.625	4.375	4.625	1.000	0.125	7.57
W2047500375	4.750	4.500	4.750	0.375	0.125	5.61
W2047500500	4.750	4.500	4.750	0.500	0.125	4.31
W2047500625	4.750	4.500	4.750	0.625	0.125	5.83
W2047500750	4.750	4.500	4.750	0.750	0.125	4.81
W2047501000	4.750	4.500	4.750	1.000	0.125	6.48
W2047501250	4.750	4.500	4.750	1.250	0.125	12.00
W2047501500	4.750	4.500	4.750	1.500	0.125	22.18
W2047501562*	4.750	4.500	4.750	1.562	0.125	32.62
W2047501990*	4.750	4.500	4.750	1.990	0.125	90.64
W2047502000	4.750	4.500	4.750	2.000	0.125	31.96
W2047503500	4.750	4.500	4.750	3.500	0.125	56.33
W2048750375*	4.875	4.625	4.875	0.375	0.125	5.18
W2048750750*	4.875	4.625	4.875	0.750	0.125	7.90
W2050000375	5.000	4.750	5.000	0.375	0.125	5.49
W2050000500	5.000	4.750	5.000	0.500	0.125	4.31
W2050000625	5.000	4.750	5.000	0.625	0.125	4.81
W2050000750	5.000	4.750	5.000	0.750	0.125	4.81
W2050000860*	5.000	4.750	5.000	0.860	0.125	7.26

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2050000875	5.000	4.750	5.000	0.875	0.125	11.44
W2050001000	5.000	4.750	5.000	1.000	0.125	6.48
W2050001000BR40*	5.000	4.750	5.000	1.000	0.125	34.93
W2050001120	5.000	4.750	5.000	1.120	0.125	16.05
W2050001125	5.000	4.750	5.000	1.125	0.125	16.39
W2050001250	5.000	4.750	5.000	1.250	0.125	32.79
W2050001500	5.000	4.750	5.000	1.500	0.125	21.90
W2050001562	5.000	4.750	5.000	1.560	0.125	16.93
W2050001750	5.000	4.750	5.000	1.750	0.125	20.48
W2050002000	5.000	4.750	5.000	2.000	0.125	50.54
W2051251562*	5.125	4.875	5.125	1.562	0.125	20.56
W2052500375	5.250	5.000	5.250	0.375	0.125	4.85
W2052500500	5.250	5.000	5.250	0.500	0.125	4.31
W2052500625	5.250	5.000	5.250	0.625	0.125	4.81
W2052500750	5.250	5.000	5.250	0.750	0.125	4.91
W2052500750S	5.250	5.000	5.250	0.750	0.125	6.43
W2052501000	5.250	5.000	5.250	1.000	0.125	6.98
W2052501000BR40*	5.250	5.000	5.250	1.000	0.125	36.08
W2052501000/BZ	5.250	5.000	5.250	1.000	0.125	122.64
W2052501030	5.250	5.000	5.250	1.030	0.125	37.06
W2052501250	5.250	5.000	5.250	1.250	0.125	28.76
W2052501500	5.250	5.000	5.250	1.500	0.125	21.30
W2052502000	5.250	5.000	5.250	2.000	0.125	35.29
W2052502250	5.250	5.000	5.250	2.250	0.125	67.63
W2052503500*	5.250	5.000	5.250	3.500	0.125	101.93
W2052503620	5.250	5.000	5.250	3.620	0.125	72.20
W2055000375	5.500	5.250	5.500	0.375	0.125	4.31
W2055000500	5.500	5.250	5.500	0.500	0.125	4.31
W2055000500S	5.500	5.250	5.500	0.500	0.125	4.31
W2055000625	5.500	5.250	5.500	0.625	0.125	5.10
W2055000750	5.500	5.250	5.500	0.750	0.125	4.91
W2055000750S	5.500	5.250	5.500	0.750	0.125	7.11
W2055001000	5.500	5.250	5.500	1.000	0.125	6.56
W2055001250	5.500	5.250	5.500	1.250	0.125	18.37
W2055001312*	5.500	5.250	5.500	1.312	0.125	26.22
W2055001370	5.500	5.250	5.500	1.370	0.125	35.49
W2055001500	5.500	5.250	5.500	1.500	0.125	24.44
W2055001620*	5.500	5.250	5.500	1.620	0.125	45.14
W2055001750	5.500	5.250	5.500	1.750	0.125	24.32
W2055002000	5.500	5.250	5.500	2.000	0.125	46.82
W2055002250	5.500	5.250	5.500	2.250	0.125	58.46
W2057500500	5.750	5.500	5.750	0.500	0.125	4.92
W2057500625	5.750	5.500	5.750	0.625	0.125	5.25
W2057500750	5.750	5.500	5.750	0.750	0.125	5.98

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W1234 SERIES - NYLON, BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2057501000	5.750	5.500	5.750	1.000	0.125	6.68
W2057501500	5.750	5.500	5.750	1.500	0.125	24.21
W2057501620	5.750	5.500	5.750	1.620	0.125	72.67
W2057501750	5.750	5.500	5.750	1.750	0.125	21.87
W2057502000	5.750	5.500	5.750	2.000	0.125	53.42
W2057502370	5.750	5.500	5.750	2.370	0.125	77.81
W2060000180*	6.000	5.750	6.000	0.180	0.125	13.26
W2060000250	6.000	5.750	6.000	0.250	0.125	16.76
W2060000375	6.000	5.750	6.000	0.375	0.125	6.21
W2060000500	6.000	5.750	6.000	0.500	0.125	4.92
W2060000625	6.000	5.750	6.000	0.625	0.125	5.25
W2060000630*	6.000	5.750	6.000	0.630	0.125	6.42
W2060000750	6.000	5.750	6.000	0.750	0.125	5.10
W2060000875	6.000	5.750	6.000	0.875	0.125	13.39
W2060001000	6.000	5.750	6.000	1.000	0.125	6.68
W2060001070	6.000	5.750	6.000	1.070	0.125	31.76
W2060001250	6.000	5.750	6.000	1.250	0.125	23.95
W2060001320	6.000	5.750	6.000	1.320	0.125	26.89
W2060001500	6.000	5.750	6.000	1.500	0.125	28.10
W2060001740*	6.000	5.750	6.000	1.740	0.125	45.93
W2060001750	6.000	5.750	6.000	1.750	0.125	45.40
W2060002000	6.000	5.750	6.000	2.000	0.125	35.23
W2060002500	6.000	5.750	6.000	2.500	0.125	64.57
W2060002860*	6.000	5.750	6.000	2.860	0.125	97.07
W2062500500	6.250	6.000	6.250	0.500	0.125	5.66
W2062500625	6.250	6.000	6.250	0.625	0.125	5.30
W2062500750	6.250	6.000	6.250	0.750	0.125	6.41
W2062500750S	6.250	6.000	6.250	0.750	0.125	8.33
W2062501000	6.250	6.000	6.250	1.000	0.125	7.76
W2062501250	6.250	6.000	6.250	11.250	0.125	30.19
W2062501490*	6.250	6.000	6.250	1.490	0.125	28.10
W2062501500	6.250	6.000	6.250	1.500	0.125	23.00
W2062501750	6.250	6.000	6.250	1.750	0.125	46.91
W2062502000	6.250	6.000	6.250	2.000	0.125	37.89
W2062502760	6.250	6.000	6.250	2.760	0.125	122.47
W2063751240*	6.375	6.125	6.375	1.240	0.125	26.53
W2063752500	6.375	6.125	6.375	2.500	0.125	105.44
W2065000375	6.500	6.250	6.500	0.375	0.125	10.34
W2065000500	6.500	6.250	6.500	0.500	0.125	5.66
W2065000500S	6.500	6.250	6.500	0.500	0.125	5.66
W2065000625	6.500	6.250	6.500	0.625	0.125	5.66
W2065000750	6.500	6.250	6.500	0.750	0.125	5.66
W2065000750S	6.500	6.250	6.500	0.750	0.125	7.53
W2065001000	6.500	6.250	6.500	1.000	0.125	7.21

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2065001250	6.500	6.250	6.500	1.250	0.125	25.77
W2065001370	6.500	6.250	6.500	1.370	0.125	23.33
W2065001375*	6.500	6.250	6.500	1.375	0.125	23.62
W2065001500	6.500	6.250	6.500	1.500	0.125	23.44
W2065001750	6.500	6.250	6.500	1.750	0.125	46.69
W2065002000	6.500	6.250	6.500	2.000	0.125	44.40
W2065002740	6.500	6.250	6.500	2.740	0.125	130.25
W2065002860*	6.500	6.250	6.500	2.860	0.125	64.32
W2065002880*	6.500	6.250	6.500	2.880	0.125	98.29
W2065003500	6.500	6.250	6.500	3.500	0.125	127.02
W2067500375*	6.750	6.500	6.750	0.375	0.125	9.25
W2067500500	6.750	6.500	6.750	0.500	0.125	10.19
W2067500625*	6.750	6.500	6.750	0.625	0.125	10.43
W2067500750	6.750	6.500	6.750	0.750	0.125	6.48
W2067501000	6.750	6.500	6.750	1.000	0.125	9.21
W2067501500	6.750	6.500	6.750	1.500	0.125	23.17
W2067561250*	6.756	6.506	6.756	1.250	0.125	36.55
W2068752000*	6.875	6.625	6.875	2.000	0.125	35.31
W2070000375	7.000	6.750	7.000	0.375	0.125	10.92
W2070000500	7.000	6.750	7.000	0.500	0.125	5.66
W2070000625	7.000	6.750	7.000	0.625	0.125	5.66
W2070000687*	7.000	6.750	7.000	0.687	0.125	28.58
W2070000750	7.000	6.750	7.000	0.750	0.125	6.48
W2070001000	7.000	6.750	7.000	1.000	0.125	9.64
W2070001250	7.000	6.750	7.000	1.250	0.125	25.93
W2070001500	7.000	6.750	7.000	1.500	0.125	11.72
W2070001750	7.000	6.750	7.000	1.750	0.125	46.82
W2070002000	7.000	6.750	7.000	2.000	0.125	55.35
W2070002370	7.000	6.750	7.000	2.370	0.125	116.68
W2070003000*	7.000	6.750	7.000	3.000	0.125	120.26
W2070003120	7.000	6.750	7.000	3.120	0.125	83.08
W2070003500	7.000	6.750	7.000	3.500	0.125	164.61
W2072500500	7.250	7.000	7.250	0.500	0.125	10.12
W2072500625	7.250	7.000	7.250	0.625	0.125	12.65
W2072500750	7.250	7.000	7.250	0.750	0.125	11.90
W2072500750S	7.250	7.000	7.250	0.750	0.125	8.68
W2072501000	7.250	7.000	7.250	1.000	0.125	14.89
W2072501375	7.250	7.000	7.250	1.375	0.125	51.37
W2072502000	7.250	7.000	7.250	2.000	0.125	51.51
W2072507140	7.250	7.000	7.250	7.140	0.125	240.92
W2073750750	7.375	7.125	7.375	0.750	0.125	7.69
W2075000500	7.500	7.250	7.500	0.500	0.125	5.66
W2075000500S	7.500	7.250	7.500	0.500	0.125	5.66
W2075000625	7.500	7.250	7.500	0.625	0.125	6.60

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

W1234 SERIES - NYLON, BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2075000750	7.500	7.250	7.500	0.750	0.125	6.60
W2075000750S	7.500	7.250	7.500	0.750	0.125	7.79
W2075001000	7.500	7.250	7.500	1.000	0.125	14.89
W2075001500	7.500	7.250	7.500	1.500	0.125	37.99
W2075002000	7.500	7.250	7.500	2.000	0.125	43.93
W2075002370	7.500	7.250	7.500	2.370	0.125	74.81
W2075002500	7.500	7.250	7.500	2.500	0.125	71.45
W2075002950	7.500	7.250	7.500	2.950	0.125	189.75
W2077500500	7.750	7.500	7.750	0.500	0.125	20.58
W2077500625*	7.750	7.500	7.750	0.625	0.125	15.71
W2077501000	7.750	7.500	7.750	1.000	0.125	25.89
W2077501500	7.750	7.500	7.750	1.500	0.125	37.33
W2077501620	7.750	7.500	7.750	1.620	0.125	108.04
W2077502000	7.750	7.500	7.750	2.000	0.125	51.06
W2077503500	7.750	7.500	7.750	3.500	0.125	123.17
W2078751000*	7.875	7.625	7.875	1.000	0.125	32.70
W2080000180	8.000	7.750	8.000	0.180	0.125	17.90
W2080000375	8.000	7.750	8.000	0.375	0.125	21.16
W2080000500	8.000	7.750	8.000	0.500	0.125	6.15
W2080000500BR40*	8.000	7.750	8.000	0.500	0.125	73.30
W2080000625	8.000	7.750	8.000	0.625	0.125	12.65
W2080000750	8.000	7.750	8.000	0.750	0.125	8.70
W2080000875	8.000	7.750	8.000	0.875	0.125	25.92
W2080001000	8.000	7.750	8.000	1.000	0.125	14.89
W2080001000BR40	8.000	7.750	8.000	1.000	0.125	55.72
W2080001250	8.000	7.750	8.000	1.250	0.125	44.10
W2080001460*	8.000	7.750	8.000	1.460	0.125	46.29
W2080001500	8.000	7.750	8.000	1.500	0.125	37.33
W2080002000	8.000	7.750	8.000	2.000	0.125	68.14
W2080002250	8.000	7.750	8.000	2.250	0.125	73.39
W2080002945	8.000	7.750	8.000	2.945	0.125	317.24
W2080003125	8.000	7.750	8.000	3.125	0.125	313.63
W2080005000	8.000	7.750	8.000	5.000	0.125	115.51
W2082500500	8.250	8.000	8.250	0.500	0.125	10.74
W2082500625	8.250	8.000	8.250	0.625	0.125	11.45
W2082500750	8.250	8.000	8.250	0.750	0.125	15.49
W2082501000	8.250	8.000	8.250	1.000	0.125	15.94
W2082501000BR40	8.250	8.000	8.250	1.000	0.125	56.15
W2082501250	8.250	8.000	8.250	1.250	0.125	26.70
W2082501500	8.250	8.000	8.250	1.500	0.125	36.47
W2082501750	8.250	8.000	8.250	1.750	0.125	46.42
W2082502120	8.250	8.000	8.250	2.120	0.125	71.93
W2082502250	8.250	8.000	8.250	2.250	0.125	76.90
W2082502500*	8.250	8.000	8.250	2.500	0.125	119.62

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2082502750	8.250	8.000	8.250	2.750	0.125	89.65
W2082504130	8.250	8.000	8.250	4.130	0.125	77.68
W2083751000	8.375	8.125	8.375	1.000	0.125	18.79
W2083751250	8.375	8.125	8.375	1.250	0.125	35.64
W2084370750	8.437	8.187	8.437	0.750	0.125	11.26
W2084370750S	8.437	8.187	8.437	0.750	0.125	10.09
W2085000500	8.500	8.250	8.500	0.500	0.125	6.82
W2085000500S*	8.500	8.250	8.500	0.500	0.125	7.32
W2085000625	8.500	8.250	8.500	0.625	0.125	9.73
W2085000750	8.500	8.250	8.500	0.750	0.125	8.70
W2085000750S	8.500	8.250	8.500	0.750	0.125	10.32
W2085001000	8.500	8.250	8.500	1.000	0.125	19.99
W2085001171*	8.500	8.250	8.500	1.171	0.125	99.52
W2085001500	8.500	8.250	8.500	1.500	0.125	19.13
W2085002000	8.500	8.250	8.500	2.000	0.125	50.49
W2085002370	8.500	8.250	8.500	2.370	0.125	104.02
W2085003000	8.500	8.250	8.500	3.000	0.125	118.70
W2086250500	8.625	8.375	8.625	0.500	0.125	10.14
W2086251000*	8.625	8.375	8.625	1.000	0.125	28.69
W2087501000	8.750	8.500	8.750	1.000	0.125	30.65
W2087502000	8.750	8.500	8.750	2.000	0.125	156.01
W2090000500	9.000	8.750	9.000	0.500	0.125	10.89
W2090000625	9.000	8.750	9.000	0.625	0.125	14.09
W2090000750	9.000	8.750	9.000	0.750	0.125	12.45
W2090001000	9.000	8.750	9.000	1.000	0.125	20.37
W2090001250	9.000	8.750	9.000	1.250	0.125	45.70
W2090001500	9.000	8.750	9.000	1.500	0.125	110.89
W2090002000	9.000	8.750	9.000	2.000	0.125	165.95
W2090002950	9.000	8.750	9.000	2.950	0.125	71.15
W2091251000*	9.125	8.875	9.125	1.000	0.125	29.31
W2091701000	9.170	8.920	9.170	1.000	0.125	17.46
W2092500750	9.250	9.000	9.250	0.750	0.125	16.38
W2092501000	9.250	9.000	9.250	1.000	0.125	29.81
W2092501250*	9.250	9.000	9.250	1.250	0.125	37.28
W2092501500*	9.250	9.000	9.250	1.500	0.125	97.94
W2092501750	9.250	9.000	9.250	1.750	0.125	58.61
W2092501970	9.250	9.000	9.250	1.970	0.125	97.35
W2092502000	9.250	9.000	9.250	2.000	0.125	72.14
W2092502250	9.250	9.000	9.250	2.250	0.125	118.33
W2093750500*	9.375	9.125	9.375	0.500	0.125	10.76
W2095000500	9.500	9.250	9.500	0.500	0.125	11.40
W2095000625	9.500	9.250	9.500	0.625	0.125	11.56
W2095000750	9.500	9.250	9.500	0.750	0.125	18.15
W2095001000	9.500	9.250	9.500	1.000	0.125	36.78

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W1234 SERIES - NYLON, BR.PTFE

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2095001250	9.500	9.250	9.500	1.250	0.125	44.31
W2095003080	9.500	9.250	9.500	3.080	0.125	84.72
W2097500500	9.750	9.500	9.750	0.500	0.125	11.64
W2097500625*	9.750	9.500	9.750	0.625	0.125	27.84
W2097500750	9.750	9.500	9.750	0.750	0.125	19.83
W2097501000	9.750	9.500	9.750	1.000	0.125	21.08
W2098750500	9.875	9.625	9.875	0.500	0.125	19.09
W2098750750	9.875	9.625	9.875	0.750	0.125	20.18
W2098750750S	9.875	9.625	9.875	0.750	0.125	15.75
W2100000250*	10.000	9.750	10.000	0.250	0.125	62.96
W2100000500	10.000	9.750	10.000	0.500	0.125	19.09
W2100000625	10.000	9.750	10.000	0.625	0.125	29.62
W2100000750	10.000	9.750	10.000	0.750	0.125	19.83
W2100000875*	10.000	9.750	10.000	0.875	0.125	26.85
W2100001000	10.000	9.750	10.000	1.000	0.125	21.84
W2100001250	10.000	9.750	10.000	1.250	0.125	28.87
W2100001500	10.000	9.750	10.000	1.500	0.125	58.16
W2100001750*	10.000	9.750	10.000	1.750	0.125	102.48
W2100001915	10.000	9.750	10.000	1.915	0.125	355.63
W2100002000	10.000	9.750	10.000	2.000	0.125	53.75
W2100002750	10.000	9.750	10.000	2.750	0.125	274.68
W2100003250	10.000	9.750	10.000	3.250	0.125	95.06
W2100003945*	10.000	9.750	10.000	3.945	0.125	413.47
W2102500750	10.250	10.000	10.250	0.750	0.125	78.45
W2102501000	10.250	10.000	10.250	1.000	0.125	17.04
W2102501250*	10.250	10.000	10.250	1.250	0.125	84.15
W2105000500	10.500	10.250	10.500	0.500	0.125	29.33
W2105000750	10.500	10.250	10.500	0.750	0.125	23.60
W2105001000	10.500	10.250	10.500	1.000	0.125	58.42
W2105001250	10.500	10.250	10.500	1.250	0.125	62.57
W2105001500*	10.500	10.250	10.500	1.500	0.125	159.32
W2105001750	10.500	10.250	10.500	1.750	0.125	94.91
W2105002750	10.500	10.250	10.500	2.750	0.125	159.40
W2105003500	10.500	10.250	10.500	3.500	0.125	223.69
W2105003750	10.500	10.250	10.500	3.750	0.125	130.79
W2105004000	10.500	10.250	10.500	4.000	0.125	141.52
W2107501000	10.750	10.500	10.750	1.000	0.125	37.58
W2107502000	10.750	10.500	10.750	2.000	0.125	124.33
W2110000500	11.000	10.750	11.000	0.500	0.125	54.38
W2110000625	11.000	10.750	11.000	0.625	0.125	44.73
W2110000750	11.000	10.750	11.000	0.750	0.125	38.50
W2110001000	11.000	10.750	11.000	1.000	0.125	57.70
W2110001250	11.000	10.750	11.000	1.250	0.125	62.69
W2110001500	11.000	10.750	11.000	1.500	0.125	101.87

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2110001625	11.000	10.750	11.000	1.625	0.125	140.52
W2110001875*	11.000	10.750	11.000	1.875	0.125	178.01
W2110001930	11.000	10.750	11.000	1.930	0.125	150.49
W2110003250	11.000	10.750	11.000	3.250	0.125	160.42
W2112500750*	11.250	11.000	11.250	0.750	0.125	27.13
W2112501000	11.250	11.000	11.250	1.000	0.125	34.06
W2112501250	11.250	11.000	11.250	1.250	0.125	98.37
W2115000750*	11.500	11.250	11.500	0.750	0.125	43.49
W2115001000	11.500	11.250	11.500	1.000	0.125	63.47
W2115001250	11.500	11.250	11.500	1.250	0.125	76.85
W2115003870	11.500	11.250	11.500	3.870	0.125	103.53
W2115004000	11.500	11.250	11.500	4.000	0.125	117.26
W2117507000/2PCS	11.750	11.500	11.750	7.000	0.125	488.06
W2120000500	12.000	11.750	12.000	0.500	0.125	33.20
W2120000625	12.000	11.750	12.000	0.625	0.125	27.13
W2120000750	12.000	11.750	12.000	0.750	0.125	28.76
W2120001000	12.000	11.750	12.000	1.000	0.125	55.69
W2120001250	12.000	11.750	12.000	1.250	0.125	103.37
W2120001500	12.000	11.750	12.000	1.500	0.125	109.49
W2120002000	12.000	11.750	12.000	2.000	0.125	120.14
W2120002460*	12.000	11.750	12.000	2.460	0.125	485.91
W2122501000	12.250	12.000	12.250	1.000	0.125	147.58
W2122501250	12.250	12.000	12.250	1.250	0.125	152.55
W2122503000	12.250	12.000	12.250	3.000	0.125	324.49
W2125000750*	12.500	12.250	12.500	0.750	0.125	157.04
W2125001460	12.500	12.250	12.500	1.460	0.125	175.09
W2125004000	12.500	12.250	12.500	4.000	0.125	181.90
W2127504015	12.750	12.500	12.750	4.015	0.125	109.37
W2128754000*	12.875	12.625	12.875	4.000	0.125	302.99
W2130000750	13.000	12.750	13.000	0.750	0.125	148.25
W2130001000	13.000	12.750	13.000	1.000	0.125	33.91
W2130001250*	13.000	12.750	13.000	1.250	0.125	80.32
W2130001460*	13.000	12.750	13.000	1.460	0.125	171.53
W2130001500*	13.000	12.750	13.000	1.500	0.125	280.70
W2132501000	13.250	13.000	13.250	1.000	0.125	111.23
W2132501250	13.250	13.000	13.250	1.250	0.125	84.19
W2132501500	13.250	13.000	13.250	1.500	0.125	104.13
W2132502000	13.250	13.000	13.250	2.000	0.125	277.96
W2135000750*	13.500	13.250	13.500	0.750	0.125	232.94
W2135001460	13.500	13.250	13.500	1.460	0.125	115.20
W2137504020	13.750	13.500	13.750	4.020	0.125	115.14
W2140000500	14.000	13.750	14.000	0.500	0.125	239.33
W2140000750	14.000	13.750	14.000	0.750	0.125	75.54
W2140001000	14.000	13.750	14.000	1.000	0.125	119.00

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

W1234 SERIES - NYLON, BR.PTFE

1/8" - Cross Section - 0.125"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W2140001250	14.000	13.750	14.000	1.250	0.125	296.25
W2140001500	14.000	13.750	14.000	1.500	0.125	197.84
W2140002000	14.000	13.750	14.000	2.000	0.125	324.00
W2140002500*	14.000	13.750	14.000	2.500	0.125	438.08
W2142501500	14.250	14.000	14.250	1.500	0.125	144.68
W2142503000*	14.250	14.000	14.250	3.000	0.125	240.72
W2142504000	14.250	14.000	14.250	4.000	0.125	239.03
W2147504760*	14.750	14.500	14.750	4.760	0.125	872.22
W2150001250*	15.000	14.750	15.000	1.250	0.125	118.21
W2150001500*	15.000	14.750	15.000	1.500	0.125	226.46
W2157501000BR40*	15.750	15.500	15.750	1.000	0.125	104.53
W2160000500*	16.000	15.750	16.000	0.500	0.125	273.51
W2160001000	16.000	15.750	16.000	1.000	0.125	115.64
W2160001250	16.000	15.750	16.000	1.250	0.125	217.65
W2160001500	16.000	15.750	16.000	1.500	0.125	291.57
W2160002000	16.000	15.750	16.000	2.000	0.125	286.86
W2165001000*	16.500	16.250	16.500	1.000	0.125	252.38
W2165000750BR40	16.500	16.250	16.500	0.750	0.125	103.33
W2165001000BR40*	16.500	16.250	16.500	1.000	0.125	109.21
W2165001500*	16.500	16.250	16.500	1.500	0.125	248.10
W2167504000*	16.750	16.500	16.750	4.000	0.125	911.82
W2180000500*	18.000	17.750	18.000	0.500	0.125	249.52
W2180001000	18.000	17.750	18.000	1.000	0.125	167.31
W2180001250*	18.000	17.750	18.000	1.250	0.125	165.43
W2180001500	18.000	17.750	18.000	1.500	0.125	267.07
W2180002000	18.000	17.750	18.000	2.000	0.125	432.96
W2200000500*	20.000	19.750	20.000	0.500	0.125	345.95
W2200001000*	20.000	19.750	20.000	1.000	0.125	204.34
W2200001500	20.000	19.750	20.000	1.500	0.125	285.44
W2200002000	20.000	19.750	20.000	2.000	0.125	432.96
W2205001000BR40*	20.500	20.250	20.500	1.000	0.125	135.13
W2210001000*	21.000	20.750	21.000	1.000	0.125	242.45

0.126" - Cross Section - 0.126"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR040001236-126*	4.000	3.750	4.000	1.236	0.126	15.84

0.139" - Cross Section - 0.139"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR090762354-139	9.076	8.798	9.076	2.354	0.139	146.32

0.140" - Cross Section - 0.140"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR037801000-140*	3.780	3.500	3.780	1.000	0.140	50.23
WR042801250-140*	4.280	4.000	4.280	1.250	0.140	30.76
WR050301562-140	5.030	4.750	5.030	1.562	0.140	39.84
WR055302250-140*	5.530	5.250	5.530	2.250	0.140	97.17
WR060301320-140	6.030	5.750	6.030	1.320	0.140	51.93
WR062801500-140*	6.280	6.000	6.280	1.500	0.140	69.75
WR082801750-140*	8.280	8.000	8.280	1.750	0.140	86.68
WR092802250-140	9.280	9.000	9.280	2.250	0.140	143.11
WR100303250-140*	10.030	9.750	10.030	3.250	0.140	311.57
WR105302750-140	10.530	10.250	10.530	2.750	0.140	149.22
WR110303250-140*	11.030	10.750	11.030	3.250	0.140	219.69
WR115303870-140*	11.530	10.750	11.530	3.870	0.140	293.39
WR125301460-140*	12.530	12.250	12.530	1.460	0.140	145.48

0.158" - Cross Section - 0.158"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR040660236-158/BR40*4.066	3.750	4.066	0.236	0.158	44.55	
WR050000236-158/BR40*5.000	4.684	5.000	0.236	0.158	39.22	

3/16" - Cross Section - 0.187"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W3018751500*	1.875	1.500	1.875	1.500	0.187	22.37
W3021250750*	2.125	1.750	2.125	0.750	0.187	27.46
W3022000625*	2.200	1.825	2.200	0.625	0.187	10.59
W3023750825	2.375	2.000	2.375	0.825	0.187	28.12
W3026250625	2.625	2.250	2.625	0.625	0.187	13.90
W3026251000*	2.625	2.250	2.625	1.000	0.187	30.92
W3028750625*	2.875	2.500	2.875	0.625	0.187	10.07
W3030000500*	3.000	2.625	3.000	0.500	0.187	36.92
W3030000750*	3.000	2.625	3.000	0.750	0.187	10.66
W3030000875*	3.000	2.625	3.000	0.875	0.187	12.83
W3030001000*	3.000	2.625	3.000	1.000	0.187	20.42
W3030620625*	3.062	2.687	3.062	0.625	0.187	12.87
W3031251000*	3.125	2.750	3.125	1.000	0.187	23.84
W3031251250*	3.125	2.750	3.125	1.250	0.187	41.30
W3032500500	3.250	2.875	3.250	0.500	0.187	15.70
W3032500625*	3.250	2.875	3.250	0.625	0.187	23.12
W3032500875*	3.250	2.875	3.250	0.875	0.187	23.55
W3033751000*	3.375	3.000	3.375	1.000	0.187	42.08
W3033751250*	3.375	3.000	3.375	1.250	0.187	46.29
W3035000500	3.500	3.125	3.500	0.500	0.187	15.73
W3035000750*	3.500	3.125	3.500	0.750	0.187	12.96

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W1234 SERIES - NYLON, BR.PTFE

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
3/16" - Cross Section - 0.187"						
W3035001000	3.500	3.125	3.500	1.000	0.187	23.59
W3036251250*	3.625	3.250	3.625	1.250	0.187	18.50
W3037500750*	3.750	3.375	3.750	0.750	0.187	13.23
W3037501000*	3.750	3.375	3.750	1.000	0.187	29.38
W3038751250*	3.875	3.500	3.875	1.250	0.187	22.55
W3038751750*	3.875	3.500	3.875	1.750	0.187	40.57
W3038752620*	3.875	3.500	3.875	2.620	0.187	70.44
W3040000250*	4.000	3.625	4.000	0.250	0.187	16.51
W3040000500	4.000	3.625	4.000	0.500	0.187	16.02
W3040000750*	4.000	3.625	4.000	0.750	0.187	13.48
W3040000875	4.000	3.625	4.000	0.875	0.187	13.51
W3040001000	4.000	3.625	4.000	1.000	0.187	29.38
W3040001375	4.000	3.625	4.000	1.375	0.187	27.30
W3041251000*	4.125	3.750	4.125	1.000	0.187	29.67
W3042500750	4.250	3.875	4.250	0.750	0.187	14.27
W3043751250*	4.375	4.000	4.375	1.250	0.187	39.13
W3043751500*	4.375	4.000	4.375	1.500	0.187	27.62
W3043751750	4.375	4.000	4.375	1.750	0.187	62.33
W3043752390	4.375	4.000	4.375	2.390	0.187	43.44
W3045000500	4.500	4.125	4.500	0.500	0.187	19.73
W3045000750	4.500	4.125	4.500	0.750	0.187	17.43
W3045001000	4.500	4.125	4.500	1.000	0.187	31.23
W3047500750*	4.750	4.375	4.750	0.750	0.187	24.46
W3048752250*	4.875	4.500	4.875	2.250	0.187	64.32
W3048752875	4.875	4.500	4.875	2.875	0.187	80.42
W3050000250	5.000	4.625	5.000	0.250	0.187	21.39
W3050000500	5.000	4.625	5.000	0.500	0.187	19.45
W3050000875*	5.000	4.625	5.000	0.875	0.187	15.81
W3050001000	5.000	4.625	5.000	1.000	0.187	26.05
W3050001500*	5.000	4.625	5.000	1.500	0.187	27.67
W3051250750	5.125	4.750	5.125	0.750	0.187	29.18
W3051251000	5.125	4.750	5.125	1.000	0.187	33.38
W3052500500*	5.250	4.875	5.250	0.500	0.187	25.94
W3052501500*	5.250	4.875	5.250	1.500	0.187	27.35
W3053751000*	5.375	5.000	5.375	1.000	0.187	35.92
W3053752375*	5.375	5.000	5.375	2.375	0.187	110.33
W3055000500	5.500	5.125	5.500	0.500	0.187	25.63
W3055000750	5.500	5.125	5.500	0.750	0.187	31.19
W3055000875*	5.500	5.125	5.500	0.875	0.187	26.12
W3055001000	5.500	5.125	5.500	1.000	0.187	35.51
W3055001250	5.500	5.125	5.500	1.250	0.187	28.42
W3055001500*	5.500	5.125	5.500	1.500	0.187	38.06
W3055001740	5.500	5.125	5.500	1.740	0.187	55.70
W3055001750*	5.500	5.125	5.500	1.750	0.187	51.82

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
3/16" - Cross Section - 0.187"						
W3057501000	5.750	5.375	5.750	1.000	0.187	42.70
W3058753500	5.875	5.500	5.875	3.500	0.187	141.66
W3060000500	6.000	5.625	6.000	0.500	0.187	21.81
W3060000625	6.000	5.625	6.000	0.625	0.187	21.84
W3060000875	6.000	5.625	6.000	0.875	0.187	27.97
W3060001000	6.000	5.625	6.000	1.000	0.187	40.70
W3060001250	6.000	5.625	6.000	1.250	0.187	26.93
W3060002500	6.000	5.625	6.000	2.500	0.187	115.50
W3060002750	6.000	5.625	6.000	2.750	0.187	128.79
W3061250750	6.125	5.750	6.125	0.750	0.187	33.02
W3061250953	6.125	5.750	6.125	0.953	0.187	49.91
W3065000750	6.500	6.125	6.500	0.750	0.187	47.18
W3065001000	6.500	6.125	6.500	1.000	0.187	39.52
W3065001500*	6.500	6.125	6.500	1.500	0.187	45.36
W3065001625	6.500	6.125	6.500	1.625	0.187	94.27
W3067501000*	6.750	6.375	6.750	1.000	0.187	43.11
W3070000500	7.000	6.625	7.000	0.500	0.187	20.83
W3070000750	7.000	6.625	7.000	0.750	0.187	28.67
W3070001000	7.000	6.625	7.000	1.000	0.187	35.03
W3070001250*	7.000	6.625	7.000	1.250	0.187	33.23
W3070001500	7.000	6.625	7.000	1.500	0.187	52.03
W3071250875	7.125	6.750	7.125	0.875	0.187	56.59
W3071251000*	7.125	6.750	7.125	1.000	0.187	45.81
W3072501000	7.250	6.875	7.250	1.000	0.187	45.81
W3072503070	7.250	6.875	7.250	3.070	0.187	140.93
W3073751610	7.375	7.000	7.375	1.610	0.187	94.54
W3073754500*	7.375	7.000	7.375	4.500	0.187	219.76
W3073757000*	7.375	7.000	7.375	7.000	0.187	292.65
W3073757395	7.375	7.000	7.375	7.395	0.187	537.88
W3073757400*	7.375	7.000	7.375	7.400	0.187	537.88
W3075000750	7.500	7.125	7.500	0.750	0.187	55.39
W3075001250	7.500	7.125	7.500	1.250	0.187	62.06
W3075001500	7.500	7.125	7.500	1.500	0.187	58.26
W3077501000	7.750	7.375	7.750	1.000	0.187	35.03
W3077504500	7.750	7.375	7.750	4.500	0.187	247.59
W3080000500	8.000	7.625	8.000	0.500	0.187	44.93
W3080001000	8.000	7.625	8.000	1.000	0.187	70.15
W3080001500	8.000	7.625	8.000	1.500	0.187	48.13
W3080002750	8.000	7.625	8.000	2.750	0.187	146.33
W3080003000*	8.000	7.625	8.000	3.000	0.187	120.54
W3082501250*	8.250	7.875	8.250	1.250	0.187	47.90
W3082502000	8.250	7.875	8.250	2.000	0.187	115.91
W3082502740*	8.250	7.875	8.250	2.740	0.187	95.35
W3082503500*	8.250	7.875	8.250	3.500	0.187	208.47

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W1234 SERIES - NYLON, BR.PTFE

3/16" - Cross Section - 0.187"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W3082504000	8.250	7.875	8.250	4.000	0.187	124.15
W3083751500*	8.375	8.000	8.375	1.500	0.187	95.05
W3085001000	8.500	8.125	8.500	1.000	0.187	47.20
W3085001500	8.500	8.125	8.500	1.500	0.187	111.25
W3085001940	8.500	8.125	8.500	1.940	0.187	168.70
W3085004250*	8.500	8.125	8.500	4.250	0.187	323.52
W3090000500*	9.000	8.625	9.000	0.500	0.187	55.66
W3090001000	9.000	8.625	9.000	1.000	0.187	59.41
W3090001500	9.000	8.625	9.000	1.500	0.187	79.19
W3091251000*	9.125	8.750	9.125	1.000	0.187	88.69
W3092501625*	9.250	8.875	9.250	1.625	0.187	132.47
W3093751610	9.375	9.000	9.375	1.610	0.187	96.41
W3093754750*	9.375	9.000	9.375	4.750	0.187	404.03
W3093758980	9.375	9.000	9.375	8.980	0.187	728.86
W3093758995*	9.375	9.000	9.375	8.995	0.187	728.86
W3095001930*	9.500	9.125	9.500	1.930	0.187	161.68
W3095001970	9.500	9.125	9.500	1.970	0.187	152.01
W3098750500*	9.875	9.500	9.875	0.500	0.187	82.04
W3100000500	10.000	9.625	10.000	0.500	0.187	62.30
W3100000625*	10.000	9.625	10.000	0.625	0.187	81.89
W3100001000	10.000	9.625	10.000	1.000	0.187	88.69
W3100001250	10.000	9.625	10.000	1.250	0.187	73.01
W3100001500	10.000	9.625	10.000	1.500	0.187	140.89
W3100002000	10.000	9.625	10.000	2.000	0.187	150.89
W3100002750*	10.000	9.625	10.000	2.750	0.187	272.29
W3103753000	10.375	10.000	10.375	3.000	0.187	486.62
W3105002500*	10.500	10.125	10.500	2.500	0.187	140.31
W3107506500	10.750	10.375	10.750	6.500	0.187	652.79
W3110001000	11.000	10.625	11.000	1.000	0.187	95.79
W3110002500*	11.000	10.625	11.000	2.500	0.187	121.88
W3112501000*	11.250	10.875	11.250	1.000	0.187	132.97
W3113752610	11.375	11.000	11.375	2.610	0.187	114.83
W31137511010	11.375	11.000	11.375	11.010	0.187	723.52
W3117503000	11.750	11.375	11.750	3.000	0.187	517.02
W3120000500	12.000	11.625	12.000	0.500	0.187	89.39
W3120000750	12.000	11.625	12.000	0.750	0.187	119.51
W3120001000	12.000	11.625	12.000	1.000	0.187	137.54
W3120001500	12.000	11.625	12.000	1.500	0.187	168.04
W3120002500	12.000	11.625	12.000	2.500	0.187	149.24
W3122504000	12.250	11.875	12.250	4.000	0.187	165.67
W3123751250*	12.375	12.000	12.375	1.250	0.187	155.35
W3125002000	12.500	12.125	12.500	2.000	0.187	158.89
W3125002500	12.500	12.125	12.500	2.500	0.187	147.06
W3125003000	12.500	12.125	12.500	3.000	0.187	389.43

3/16" - Cross Section - 0.187"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W31287512187	12.875	12.500	12.875	12.187	0.187	785.90
W3128751250*	12.875	12.500	12.875	1.250	0.187	155.35
W3128752890	12.875	12.500	12.875	2.890	0.187	341.58
W3128754045	12.875	12.500	12.875	4.045	0.187	465.19
W3130001000	13.000	12.625	13.000	1.000	0.187	196.77
W3130001250	13.000	12.625	13.000	1.250	0.187	155.36
W3131256500*	13.125	12.750	13.125	6.500	0.187	1031.88
W3131257870	13.125	12.750	13.125	7.870	0.187	667.23
W31387510020	13.875	13.500	13.875	10.020	0.187	710.81
W3138752375	13.875	13.500	13.875	2.375	0.187	154.79
W3140001000	14.000	13.625	14.000	1.000	0.187	276.92
W3143755740*	14.375	14.000	14.375	5.740	0.187	1663.37
W3145001750	14.500	14.125	14.500	1.750	0.187	344.71
W3150001250	15.000	14.625	15.000	1.250	0.187	340.57
W3150001500	15.000	14.625	15.000	1.500	0.187	133.52
W3151257720	15.125	14.750	15.125	7.720	0.187	563.54
W3160001500*	16.000	15.625	16.000	1.500	0.187	179.20
W3160002000/SC	16.000	15.625	16.000	2.000	0.187	269.49
W31612510020*	16.125	15.750	16.125	10.020	0.187	1282.13
W3161252370*	16.125	15.750	16.125	2.370	0.187	343.70
W3161257720	16.125	15.750	16.125	7.720	0.187	532.68
W3164371500*	16.437	16.062	16.437	1.500	0.187	185.57
W3165001500*	16.500	16.125	16.500	1.500	0.187	192.55
W3183757720*	18.375	18.000	18.375	7.720	0.187	817.81

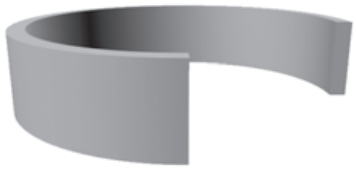
1/4" - Cross Section - 0.250"

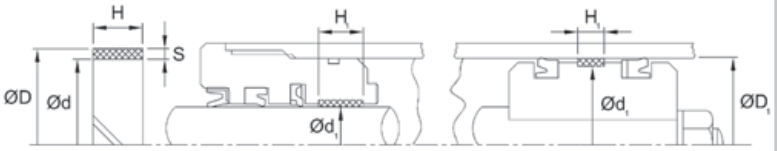
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W4065003500	6.500	6.000	6.500	3.500	0.250	131.12
W4077500250*	7.750	7.250	7.750	0.250	0.250	31.77
W4082503500	8.250	7.750	8.250	3.500	0.250	162.91
W4100002750*	10.000	9.500	10.000	2.750	0.250	171.47
W4102503500	10.250	9.750	10.250	3.500	0.250	243.71
W4110002000	11.000	10.500	11.000	2.000	0.250	259.63
W4120000500*	12.000	11.500	12.000	0.500	0.250	135.21

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

W2-PB - Tight tolerance wear rings

Glass filled Nylon





Temperature: -40/250F [-40/121C]

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
W2010000375PB*	1.000	0.750	1.000	0.375	0.125	9.28
W2011250375PB*	1.125	0.875	1.125	0.375	0.125	9.28
W2012500375PB*	1.250	1.000	1.250	0.375	0.125	9.48
W2012500500PB*	1.250	1.000	1.250	0.500	0.125	9.65
W2013750500PB*	1.375	1.125	1.375	0.500	0.125	9.94
W2015000250PB*	1.500	1.250	1.500	0.250	0.125	5.19
W2015000375PB*	1.500	1.250	1.500	0.375	0.125	6.64
W2015000500PB*	1.500	1.250	1.500	0.500	0.125	6.64
W2016250375PB*	1.625	1.375	1.625	0.375	0.125	10.53
W2016250500PB*	1.625	1.375	1.625	0.500	0.125	7.60
W2017500250PB*	1.750	1.500	1.750	0.250	0.125	8.83
W2017500375PB*	1.750	1.500	1.750	0.375	0.125	6.34
W2017500500PB*	1.750	1.500	1.750	0.500	0.125	6.24
W2017500750PB*	1.750	1.500	1.750	0.750	0.125	7.96
W2017501000PB*	1.750	1.500	1.750	1.000	0.125	9.75
W2018750500PB*	1.875	1.625	1.875	0.500	0.125	10.12
W2020000250PB*	2.000	1.750	2.000	0.250	0.125	5.39
W2020000375PB*	2.000	1.750	2.000	0.375	0.125	6.44
W2020000500PB*	2.000	1.750	2.000	0.500	0.125	6.66
W2020000625PB*	2.000	1.750	2.000	0.625	0.125	6.83
W2020001000PB*	2.000	1.750	2.000	1.000	0.125	7.12
W2021250500PB*	2.125	1.875	2.125	0.500	0.125	12.33
W2021250750PB*	2.125	1.875	2.125	0.750	0.125	9.19
W2022500250PB*	2.250	2.000	2.250	0.250	0.125	9.70
W2022500375PB*	2.250	2.000	2.250	0.375	0.125	9.19
W2022500500PB*	2.250	2.000	2.250	0.500	0.125	6.66
W2022500625PB*	2.250	2.000	2.250	0.625	0.125	6.66
W2022500750PB*	2.250	2.000	2.250	0.750	0.125	7.02
W2022501000PB*	2.250	2.000	2.250	1.000	0.125	8.76
W2023750750PB*	2.375	2.125	2.375	0.750	0.125	10.23
W2025000250PB*	2.500	2.250	2.500	0.250	0.125	6.24
W2025000312PB*	2.500	2.250	2.500	0.312	0.125	8.83
W2025000375PB*	2.500	2.250	2.500	0.375	0.125	6.89
W2025000500PB*	2.500	2.250	2.500	0.500	0.125	6.96
W2025000625PB*	2.500	2.250	2.500	0.625	0.125	7.44
W2025000750PB*	2.500	2.250	2.500	0.750	0.125	8.27
W2025001000PB*	2.500	2.250	2.500	1.000	0.125	9.17

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
W2026250750PB*	2.625	2.375	2.625	0.750	0.125	10.53
W2027500375PB*	2.750	2.500	2.750	0.375	0.125	7.02
W2027500500PB	2.750	2.500	2.750	0.500	0.125	7.02
W2027500625PB*	2.750	2.500	2.750	0.625	0.125	7.56
W2027500750PB*	2.750	2.500	2.750	0.750	0.125	8.60
W2027501000PB*	2.750	2.500	2.750	1.000	0.125	9.03
W2027501500PB*	2.750	2.500	2.750	1.500	0.125	11.82
W2028750500PB*	2.875	2.625	2.875	0.500	0.125	8.62
W2030000250PB*	3.000	2.750	3.000	0.250	0.125	6.44
W2030000375PB*	3.000	2.750	3.000	0.375	0.125	7.13
W2030000500PB*	3.000	2.750	3.000	0.500	0.125	7.13
W2030000625PB*	3.000	2.750	3.000	0.625	0.125	7.13
W2030000750PB*	3.000	2.750	3.000	0.750	0.125	8.17
W2030001000PB*	3.000	2.750	3.000	1.000	0.125	7.96
W2032500250PB*	3.250	3.000	3.250	0.250	0.125	6.89
W2032500375PB*	3.250	3.000	3.250	0.375	0.125	7.30
W2032500500PB*	3.250	3.000	3.250	0.500	0.125	7.30
W2032500625PB*	3.250	3.000	3.250	0.625	0.125	8.00
W2032500750PB*	3.250	3.000	3.250	0.750	0.125	8.17
W2032501000PB*	3.250	3.000	3.250	1.000	0.125	8.67
W2032501250PB*	3.250	3.000	3.250	1.250	0.125	15.29
W2032501500PB*	3.250	3.000	3.250	1.500	0.125	15.87
W2035000250PB*	3.500	3.250	3.500	0.250	0.125	6.67
W2035000375PB*	3.500	3.250	3.500	0.375	0.125	7.34
W2035000500PB*	3.500	3.250	3.500	0.500	0.125	7.34
W2035000625PB*	3.500	3.250	3.500	0.625	0.125	8.17
W2035000750PB*	3.500	3.250	3.500	0.750	0.125	8.21
W2035001000PB*	3.500	3.250	3.500	1.000	0.125	8.94
W2035001125PB*	3.500	3.250	3.500	1.125	0.125	16.42
W2035001500PB*	3.500	3.250	3.500	1.500	0.125	19.23
W2036250750PB*	3.625	3.375	3.625	0.750	0.125	16.15
W2037500375PB*	3.750	3.500	3.750	0.375	0.125	9.32
W2037500500PB*	3.750	3.500	3.750	0.500	0.125	7.49
W2037500625PB*	3.750	3.500	3.750	0.625	0.125	8.43
W2037500750PB*	3.750	3.500	3.750	0.750	0.125	8.60
W2037501000PB*	3.750	3.500	3.750	1.000	0.125	8.98
W2037501250PB*	3.750	3.500	3.750	1.250	0.125	17.36

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

W2-PB SERIES - GLASS FILLED NYLON

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
W2038750250PB*	3.875	3.625	3.875	0.250	0.125	7.80
W2038751000PB*	3.875	3.625	3.875	1.000	0.125	15.48
W2040000250PB*	4.000	3.750	4.000	0.250	0.125	11.07
W2040000312PB*	4.000	3.750	4.000	0.312	0.125	11.15
W2040000375PB*	4.000	3.750	4.000	0.375	0.125	9.32
W2040000500PB*	4.000	3.750	4.000	0.500	0.125	7.49
W2040000625PB*	4.000	3.750	4.000	0.625	0.125	8.76
W2040000750PB*	4.000	3.750	4.000	0.750	0.125	8.21
W2040000875PB*	4.000	3.750	4.000	0.875	0.125	15.48
W2040001000PB*	4.000	3.750	4.000	1.000	0.125	9.62
W2040001250PB*	4.000	3.750	4.000	1.250	0.125	16.42
W2041250500PB*	4.125	3.875	4.125	0.500	0.125	11.58
W2042500250PB*	4.250	4.000	4.250	0.250	0.125	7.61
W2042500375PB*	4.250	4.000	4.250	0.375	0.125	9.62
W2042500500PB*	4.250	4.000	4.250	0.500	0.125	7.72
W2042500625PB*	4.250	4.000	4.250	0.625	0.125	8.76
W2042500750PB*	4.250	4.000	4.250	0.750	0.125	9.07
W2042501000PB*	4.250	4.000	4.250	1.000	0.125	11.76
W2042501250PB*	4.250	4.000	4.250	1.250	0.125	17.36
W2042501500PB*	4.250	4.000	4.250	1.500	0.125	18.28
W2045000375PB*	4.500	4.250	4.500	0.375	0.125	11.76
W2045000500PB	4.500	4.250	4.500	0.500	0.125	7.86
W2045000625PB*	4.500	4.250	4.500	0.625	0.125	8.76
W2045000750PB*	4.500	4.250	4.500	0.750	0.125	8.56
W2045001000PB*	4.500	4.250	4.500	1.000	0.125	11.76
W2045001500PB*	4.500	4.250	4.500	1.500	0.125	18.68
W2047500500PB*	4.750	4.500	4.750	0.500	0.125	7.86
W2047500625PB*	4.750	4.500	4.750	0.625	0.125	8.60
W2047500750PB*	4.750	4.500	4.750	0.750	0.125	8.76
W2047501000PB*	4.750	4.500	4.750	1.000	0.125	11.84
W2047501500PB*	4.750	4.500	4.750	1.500	0.125	19.61
W2050000375PB*	5.000	4.750	5.000	0.375	0.125	10.03
W2050000500PB*	5.000	4.750	5.000	0.500	0.125	7.86
W2050000625PB*	5.000	4.750	5.000	0.625	0.125	8.76
W2050000750PB*	5.000	4.750	5.000	0.750	0.125	8.76
W2050001000PB*	5.000	4.750	5.000	1.000	0.125	11.84
W2052500500PB*	5.250	5.000	5.250	0.500	0.125	7.86
W2052500625PB*	5.250	5.000	5.250	0.625	0.125	9.23
W2052500750PB*	5.250	5.000	5.250	0.750	0.125	8.96
W2052501000PB*	5.250	5.000	5.250	1.000	0.125	12.75
W2055000375PB*	5.500	5.250	5.500	0.375	0.125	12.96
W2055000500PB*	5.500	5.250	5.500	0.500	0.125	9.24
W2055000625PB*	5.500	5.250	5.500	0.625	0.125	9.31
W2055000750PB*	5.500	5.250	5.500	0.750	0.125	8.96
W2055001000PB*	5.500	5.250	5.500	1.000	0.125	11.98
W2055001250PB*	5.500	5.250	5.500	1.250	0.125	17.19
W2057500500PB*	5.750	5.500	5.750	0.500	0.125	13.14
W2057500625PB*	5.750	5.500	5.750	0.625	0.125	13.99

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
W2057500750PB*	5.750	5.500	5.750	0.750	0.125	14.46
W2057501000PB*	5.750	5.500	5.750	1.000	0.125	18.68
W2060000375PB*	6.000	5.750	6.000	0.375	0.125	11.36
W2060000500PB*	6.000	5.750	6.000	0.500	0.125	8.98
W2060000625PB*	6.000	5.750	6.000	0.625	0.125	9.59
W2060000750PB*	6.000	5.750	6.000	0.750	0.125	9.31
W2060001000PB*	6.000	5.750	6.000	1.000	0.125	12.16
W2060001250PB*	6.000	5.750	6.000	1.250	0.125	18.12
W2060001500PB*	6.000	5.750	6.000	1.500	0.125	18.68
W2062500500PB*	6.250	6.000	6.250	0.500	0.125	13.87
W2062500625PB*	6.250	6.000	6.250	0.625	0.125	14.46
W2062500750PB*	6.250	6.000	6.250	0.750	0.125	15.39
W2062501000PB*	6.250	6.000	6.250	1.000	0.125	12.35
W2062501500PB*	6.250	6.000	6.250	1.500	0.125	19.61
W2065000500PB*	6.500	6.250	6.500	0.500	0.125	10.33
W2065000625PB*	6.500	6.250	6.500	0.625	0.125	10.33
W2065000750PB*	6.500	6.250	6.500	0.750	0.125	12.95
W2065001000PB*	6.500	6.250	6.500	1.000	0.125	13.14
W2065001500PB*	6.500	6.250	6.500	1.500	0.125	20.46
W2067501000PB*	6.750	6.500	6.750	1.000	0.125	21.22
W2070000500PB*	7.000	6.750	7.000	0.500	0.125	10.33
W2070000500PB*	7.000	6.750	7.000	0.500	0.125	29.85
W2070000625PB*	7.000	6.750	7.000	0.625	0.125	10.33
W2070000750PB*	7.000	6.750	7.000	0.750	0.125	11.84
W2070001000PB*	7.000	6.750	7.000	1.000	0.125	17.63
W2072501000PB*	7.250	7.000	7.250	1.000	0.125	26.95
W2075000500PB*	7.500	7.250	7.500	0.500	0.125	10.33
W2075000625PB*	7.500	7.250	7.500	0.625	0.125	12.06
W2075000750PB*	7.500	7.250	7.500	0.750	0.125	12.06
W2075001000PB*	7.500	7.250	7.500	1.000	0.125	27.17
W2080000500PB*	8.000	7.750	8.000	0.500	0.125	11.19
W2080000625PB*	8.000	7.750	8.000	0.625	0.125	23.08
W2080000750PB*	8.000	7.750	8.000	0.750	0.125	15.87
W2080001000PB*	8.000	7.750	8.000	1.000	0.125	27.17
W2082501000PB*	8.250	8.000	8.250	1.000	0.125	34.53
W2085000500PB*	8.500	8.250	8.500	0.500	0.125	27.80
W2085001000PB*	8.500	8.250	8.500	1.000	0.125	36.33
W2087501000PB*	8.750	8.500	8.750	1.000	0.125	37.93
W2090000750PB*	9.000	8.750	9.000	0.750	0.125	36.98
W2090001000PB*	9.000	8.750	9.000	1.000	0.125	37.17
W2092501000PB*	9.250	9.000	9.250	1.000	0.125	58.75
W2095001000PB*	9.500	9.250	9.500	1.000	0.125	60.63
W2100000500PB*	10.000	9.750	10.000	0.500	0.125	63.44
W2100000750PB*	10.000	9.750	10.000	0.750	0.125	65.34
W2100001000PB*	10.000	9.750	10.000	1.000	0.125	79.11
W2105001000PB*	10.500	10.250	10.500	1.000	0.125	82.22
W2110001000PB*	11.000	10.750	11.000	1.000	0.125	90.29
W2120001000PB*	12.000	11.750	12.000	1.000	0.125	103.04

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

Dynamax

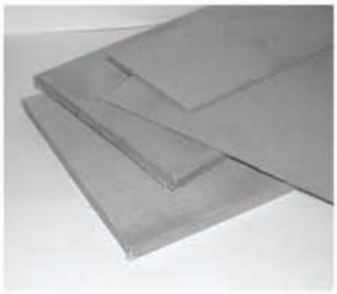
Composite Bearing Material

TUBE STOCK

Tube material is made on a mandrel of nominal size and currently range from .500" to 40". Sizes from .500" to 4" are in 1/8" steps, 4.0" to 8.0" are in 1/4" steps and over 8.0" in 1/2". Larger or custom sizes can be manufactured on special request. The material must be ordered with allowance for final machining. Stock tube material is .050" to .100" over the ordered size. The extra material allows machining to the order dimension. Smaller tubes have a factory standard ground finish. Larger material has an semi-rough unfinished surface. Standard tube material is manufactured using a reinforcing fabric that is 32" long. The ends are trimmed and squared resulting in a finished length of 30".

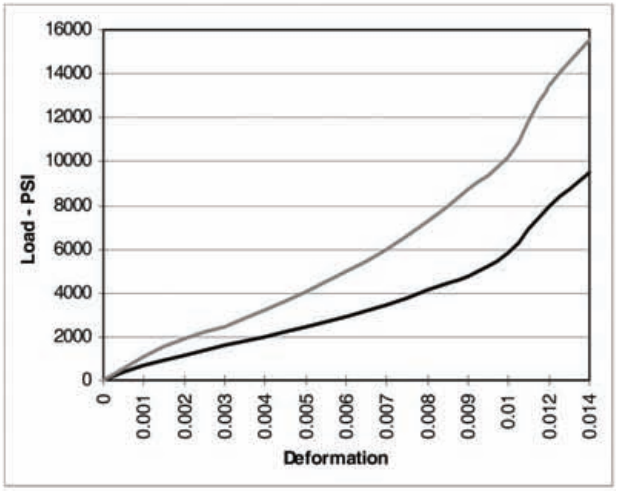
SHEET STOCK

Sheet is made by laminating multi-layers of material and is available in any thickness from .062" to 1.500", 30" wide and 48" long. The material is finished on both sides to a standard tolerance of +/- .010". Custom sizes can be manufactured upon special request.



Compressive Strength*		
Normal to laminate	45,000-50,000 lbs/in ^{2}	310-345 N/mm ^{2}
Parallel to Laminate	14,000-14,500 lbs/in ^{2}	97-100 N/mm ^{2}
Tensile Strength*	7,800-8,300 lbs/in ^{2}	54-57 N/mm ^{2}
Modulus of Elasticity	.48 X 10^6 lbs/in ^{2}	.33 X 10^4 N/mm ^{2}
Density	.046 lbs/in ^{3}	1.25 gm/cm ^{3}
Coefficient of Friction (Graphite/PTFE)	.17-.12	
Swell in Water % of wall thickness	< 0.1	
Hardness Rockwell M Scale	100	

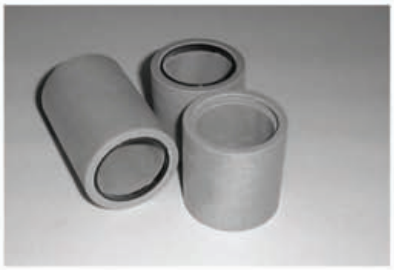
* Compressive and tensile strength test results are loads at failure and may vary due to resin selection and solid lubricants incorporated within the resin.



Dynamax bearing materials demonstrate elastic deformation under compressive loads and vary with the material thickness. The above graph compares the load as a function of deformation using test sample thicknesses of .125 and .250.

Plane / Flanged Bearing

High load / low speed applications. Dynamax bearings can be used with only the internal lubrication (PTFE) or outside lubricants such as grease, water or processing fluids can be added.



Sealed Bearings

Dynamax bearings can be designed to include shaft seals and rod wipers to keep dust and dirt out or lubricating fluids in. Ideal for reducing system components.

Hydraulic Cylinder Wear Rings

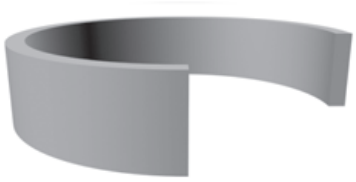
High load application that eliminates the stress on the sealing components due to misalignment or extreme side loading.

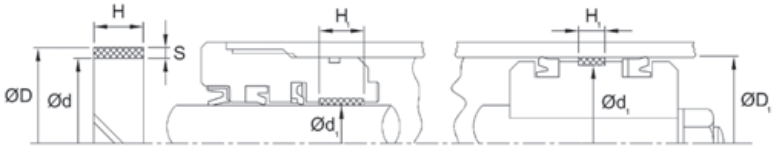
Thrust Washers / Spacers

Washers are used to carry high loads and torque with or without outside lubrication. Dynamax will not corrode.

WEAR RING DX
W1, W2, W3, W4, WR

Dynamax





Compressive Strength

Temperature: -67/248F [-55/120C]

Pressure: 60000 PSI [4138 Bar]

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 Ring C/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.

W1234 DX SERIES - DYNAMAX

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
0.075" - Cross Section - 0.075"						
WR116500780-075/DX*	11.650	11.500	11.650	0.780	0.075	89.40
0.092" - Cross Section - 0.092"						
WR031871500-092/DX*	3.187	3.000	3.187	1.500	0.092	33.48
WR034371500-092/DX*	3.437	3.250	3.437	1.500	0.092	34.64
0.098" - Cross Section - 0.098"						
WR039501215-098/DX*	3.950	3.750	3.950	1.215	0.098	36.82
WR042001500-098/DX*	4.200	4.000	4.200	1.500	0.098	49.72
WR042002000-098/DX	4.200	4.000	4.200	2.000	0.098	53.36
WR044651170-098/DX*	4.465	4.250	4.465	1.170	0.098	39.07
1/8" - Cross Section - 0.125"						
W2012500500/DX-W	1.250	1.000	1.250	0.500	0.125	17.06
W2015001000/DX-BC*	1.500	1.250	1.500	1.000	0.125	23.05
W2017501000/DX	1.750	1.500	1.750	1.000	0.125	20.77
W2020000500/DX-W	2.000	1.750	2.000	0.500	0.125	19.42
W2020001000/DX-W	2.000	1.750	2.000	1.000	0.125	18.16
W2022501000/DX-W	2.250	2.000	2.250	1.000	0.125	27.71
W2025000500/DX	2.500	2.250	2.500	0.500	0.125	14.06
W2025001000/DX	2.500	2.250	2.500	1.000	0.125	18.19
W2025001000/DX-W*	2.500	2.250	2.500	1.000	0.125	18.19
W2027501000/DX-W	2.750	2.500	2.750	1.000	0.125	18.36
W2027501500/DX-W	2.750	2.500	2.750	1.500	0.125	28.76
W2030000250/DX*	3.000	2.750	3.000	0.250	0.125	9.64
W2030000375/DX	3.000	2.750	3.000	0.375	0.125	9.49
W2030000500/DX	3.000	2.750	3.000	0.500	0.125	16.02
W2030000750/DX	3.000	2.750	3.000	0.750	0.125	33.56
W2030001000/DX	3.000	2.750	3.000	1.000	0.125	19.28
W2030001190/DX*	3.000	2.750	3.000	1.190	0.125	40.08
W2030001250/DX	3.000	2.750	3.000	1.250	0.125	24.35
W2030001500/DX	3.000	2.750	3.000	1.500	0.125	30.66
W2032500500/DX	3.250	3.000	3.250	0.500	0.125	16.38
W2032500500/DX-W	3.250	3.000	3.250	0.500	0.125	16.38
W2032500750/DX	3.250	3.000	3.250	0.750	0.125	21.60
W2032501000/DX	3.250	3.000	3.250	1.000	0.125	27.98
W2032501500/DX-W	3.250	3.000	3.250	1.500	0.125	34.78
W2035000750/DX*	3.500	3.250	3.500	0.750	0.125	23.19

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2035001000/DX	3.500	3.250	3.500	1.000	0.125	28.04
W2035001000/DX-W	3.500	3.250	3.500	1.000	0.125	22.96
W2037500500/DX	3.750	3.500	3.750	0.500	0.125	18.84
W2037500625/DX	3.750	3.500	3.750	0.625	0.125	22.47
W2037501000/DX	3.750	3.500	3.750	1.000	0.125	28.27
W2037501500/DX*	3.750	3.500	3.750	1.500	0.125	61.68
W2040000250/DX	4.000	3.750	4.000	0.250	0.125	11.02
W2040000375/DX	4.000	3.750	4.000	0.375	0.125	18.26
W2040000500/DX	4.000	3.750	4.000	0.500	0.125	20.15
W2040000750/DX	4.000	3.750	4.000	0.750	0.125	26.24
W2040001000/DX*	4.000	3.750	4.000	0.750	0.125	28.54
W2040001000/DX-W	4.000	3.750	4.000	1.000	0.125	26.78
W2040001500/DX	4.000	3.750	4.000	1.500	0.125	35.95
W2040001875/DX*	4.000	3.750	4.000	1.875	0.125	56.65
W2042221500/DX*	4.222	3.972	4.222	1.500	0.125	48.47
W2042500750/DX*	4.250	4.000	4.250	0.750	0.125	28.12
W2042501000/DX	4.250	4.000	4.250	1.000	0.125	30.30
W2045000500/DX	4.500	4.250	4.500	0.500	0.125	19.29
W2045000500/DX-W	4.500	4.250	4.500	0.500	0.125	20.55
W2045001500/DX-W	4.500	4.250	4.500	1.500	0.125	48.89
W2045002000/DX*	4.500	4.250	4.500	2.000	0.125	58.85
W2047500500/DX-BC	4.750	4.500	4.750	0.500	0.125	20.99
W2047501250/DX*	4.750	4.500	4.750	1.250	0.125	38.05
W2047501500/DX	4.750	4.500	4.750	1.500	0.125	44.07
W2047502625/DX*	4.750	4.500	4.750	2.625	0.125	60.74
W2050000500/DX	5.000	4.750	5.000	0.500	0.125	21.09
W2050000625/DX*	5.000	4.750	5.000	0.625	0.125	25.87
W2050000750/DX	5.000	4.750	5.000	0.750	0.125	31.53
W2050000875/DX*	5.000	4.750	5.000	0.875	0.125	35.04
W2050001000/DX	5.000	4.750	5.000	1.000	0.125	36.38
W2050001000/DX-W	5.000	4.750	5.000	1.000	0.125	38.55
W2050001500/DX-W	5.000	4.750	5.000	1.500	0.125	48.56
W2050001750/DX*	5.000	4.750	5.000	1.750	0.125	59.07
W2050002000/DX*	5.000	4.750	5.000	2.000	0.125	75.16
W2052501000/DX	5.250	5.000	5.250	1.000	0.125	37.83
W2052501500/DX	5.250	5.000	5.250	1.500	0.125	57.02
W2052502000/DX	5.250	5.000	5.250	2.000	0.125	62.19
W2052503000/DX*	5.250	5.000	5.250	3.000	0.125	110.77
W2055000750/DX*	5.500	5.250	5.500	0.750	0.125	30.51
W2055001000/DX	5.500	5.250	5.500	1.000	0.125	39.57
W2057500500/DX*	5.750	5.500	5.750	0.500	0.125	23.05
W2057502000/DX	5.750	5.500	5.750	2.000	0.125	75.47
W2060000375/DX*	6.000	5.750	6.000	0.375	0.125	17.25
W2060000500/DX	6.000	5.750	6.000	0.500	0.125	25.15

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

W1234 DX SERIES - DYNAMAX

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2060000750/DX	6.000	5.750	6.000	0.750	0.125	34.50
W2060000750/DX-BC	6.000	5.750	6.000	0.750	0.125	34.50
W2060001000/DX	6.000	5.750	6.000	1.000	0.125	40.37
W2060001250/DX-BC*	6.000	5.750	6.000	1.250	0.125	49.84
W2060001500/DX*	6.000	5.750	6.000	1.500	0.125	58.05
W2062502500/DX	6.250	6.000	6.250	2.500	0.125	78.49
W2062502625/DX*	6.250	6.000	6.250	2.625	0.125	113.28
W2062504750/DX*	6.250	6.000	6.250	4.750	0.125	104.37
W2065001500/DX	6.500	6.250	6.500	1.500	0.125	64.67
W2070001000/DX	7.000	6.750	7.000	1.000	0.125	51.60
W2070001500/DX*	7.000	6.750	7.000	1.500	0.125	66.46
W2070002500/DX*	7.000	6.750	7.000	2.500	0.125	120.89
W2072500750/DX	7.250	7.000	7.250	0.750	0.125	48.85
W2075002000/DX*	7.500	7.250	7.500	2.000	0.125	92.42
W2077501500/DX*	7.750	7.500	7.750	1.500	0.125	83.59
W2077504000/DX*	7.750	7.500	7.750	4.000	0.125	178.80
W2080000500/DX	8.000	7.750	8.000	0.500	0.125	31.60
W2080000750/DX	8.000	7.750	8.000	0.750	0.125	41.96
W2080001000/DX	8.000	7.750	8.000	1.000	0.125	55.23
W2080001250/DX	8.000	7.750	8.000	1.250	0.125	95.09
W2080001500/DX*	8.000	7.750	8.000	1.500	0.125	69.14
W2080002000/DX*	8.000	7.750	8.000	2.000	0.125	105.96
W2082501000/DX	8.250	8.000	8.250	1.000	0.125	77.61
W2090001000/DX	9.000	8.750	9.000	1.000	0.125	99.51
W2090001500/DX	9.000	8.750	9.000	1.500	0.125	93.57
W2092501000/DX*	9.250	9.000	9.250	1.000	0.125	112.56
W2095001500/DX	9.500	9.250	9.500	1.500	0.125	99.78
W2095007500/DX*	9.500	9.250	9.500	7.500	0.125	434.90
W2100000625/DX*	10.000	9.750	10.000	0.625	0.125	46.82
W2100000750/DX	10.000	9.750	10.000	0.750	0.125	65.66
W2100001000/DX	10.000	9.750	10.000	1.000	0.125	72.98
W2100001250/DX	10.000	9.750	10.000	1.250	0.125	88.06
W2100001500/DX	10.000	9.750	10.000	1.500	0.125	105.89
W2100002000/DX*	10.000	9.750	10.000	2.000	0.125	128.86
W2100002625/DX*	10.000	9.750	10.000	2.625	0.125	124.52
W2105001000/DX	10.500	10.250	10.500	1.000	0.125	78.85
W2105003495/DX*	10.500	10.250	10.500	3.495	0.125	288.46
W2110001500/DX-BC	11.000	10.750	11.000	1.500	0.125	110.38
W2110001625/DX	11.000	10.750	11.000	1.625	0.125	115.09
W2110002000/DX	11.000	10.750	11.000	2.000	0.125	150.17
W2120000750/DX	12.000	11.750	12.000	0.750	0.125	66.46
W2120001000/DX	12.000	11.750	12.000	1.000	0.125	85.60
W2120001500/DX	12.000	11.750	12.000	1.500	0.125	126.47
W2120002000/DX	12.000	11.750	12.000	2.000	0.125	162.42

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
1/8" - Cross Section - 0.125"						
W2125001500/DX-BC*	12.500	12.250	12.500	1.500	0.125	126.11
W2140001000/DX	14.000	13.750	14.000	1.000	0.125	90.23
W2140001500/DX	14.000	13.750	14.000	1.500	0.125	153.51
W2140002000/DX	14.000	13.750	14.000	2.000	0.125	228.54
W2147501500/DX*	14.750	14.500	14.750	1.500	0.125	242.24
W2155000375/DX*	15.500	15.250	15.500	0.375	0.125	99.56
W2155001000/DX*	15.500	15.250	15.500	1.000	0.125	183.27
W2155001500/DX*	15.500	15.250	15.500	1.500	0.125	250.94
W2160000750/DX*	16.000	15.750	16.000	0.750	0.125	103.28
W2160001000/DX	16.000	15.750	16.000	1.000	0.125	157.28
W2160001250/DX-BC*	16.000	15.750	16.000	1.250	0.125	161.64
W2160001500/DX	16.000	15.750	16.000	1.500	0.125	225.55
W2160001550/DX*	16.000	15.750	16.000	1.550	0.125	228.12
W2160002000/DX*	16.000	15.750	16.000	2.000	0.125	267.44
W2160002500/DX*	16.000	15.750	16.000	2.500	0.125	286.27
W2161302000/DX	16.130	15.880	16.130	2.000	0.125	289.51
0.140" - Cross Section - 0.140"						
WR070302000-140/DX*	7.030	6.750	7.030	2.000	0.140	122.84
WR070303120-140/DX*	7.030	6.750	7.030	3.120	0.140	121.48
WR082801500-140/DX	8.280	8.000	8.280	1.500	0.140	92.60
WR085302370-140/DX	8.530	8.250	8.530	2.370	0.140	120.07
0.155" - Cross Section - 0.155"						
WR115603870-155/DX*	11.560	11.250	11.560	3.870	0.155	255.12
0.157" - Cross Section - 0.157"						
WR123141250-157/DX	12.314	12.000	12.314	1.250	0.157	212.87
WR160002500-157/DX	16.000	15.686	16.000	2.500	0.157	394.38
3/16" - Cross Section - 0.187"						
W3037500500/DX*	3.750	3.375	3.750	0.500	0.187	26.44
W3038752625/DX*	3.875	3.500	3.875	2.625	0.187	63.49
W3052502000/DX	5.250	4.875	5.250	2.000	0.187	64.29
W3058750500/DX*	5.875	5.500	5.875	0.500	0.187	38.74

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W1234 DX SERIES - DYNAMAX

3/16" - Cross Section - 0.187"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W3060000500/DX	6.000	5.625	6.000	0.500	0.187	38.74
W3063752000/DX*	6.375	6.000	6.375	2.750	0.187	141.06
W3075000750/DX	7.500	7.125	7.500	0.750	0.187	43.88
W3080000500/DX*	8.000	7.625	8.000	0.500	0.187	48.69
W3080001000/DX	8.000	7.625	8.000	1.000	0.187	55.23
W3082501000/DX*	8.250	7.875	8.250	1.000	0.187	60.06
W3093755995/DX*	9.375	9.000	9.375	5.995	0.187	288.46
W3100000625DX	10.000	9.625	10.000	0.625	0.187	56.64
W3100001000/DX	10.000	9.625	10.000	1.000	0.187	80.74
W3120001000/DX	12.000	11.625	12.000	1.000	0.187	95.09
W3120001500/DX*	12.000	11.625	12.000	1.500	0.187	137.85
W3123751250/DX	12.375	12.000	12.375	1.250	0.187	151.88
W3135002000/DX	13.500	13.125	13.500	2.000	0.187	202.53
W3150001500/DX	15.000	14.625	15.000	1.500	0.187	217.90
W3160001500/DX*	16.000	15.625	16.000	1.500	0.187	225.55
W3160002000/DX*	16.000	15.625	16.000	2.000	0.187	252.19

0.192" - Cross Section - 0.192"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR075101250-192/DX	7.510	7.125	7.510	1.250	0.192	83.60
WR125102000-192/DX	12.510	12.125	12.510	2.000	0.192	269.54
WR145101750-192/DX	14.510	14.125	14.510	1.750	0.192	313.76
WR150101250-192/DX	15.010	14.625	15.020	1.250	0.192	274.49
WR150101500-192/DX	15.010	14.625	15.010	1.500	0.192	348.80

0.197" - Cross Section - 0.197"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR075201250-197/DX	7.520	7.125	7.520	1.250	0.197	83.60
WR125202000-197/DX	12.520	12.125	12.520	2.000	0.197	269.54
WR145201750-197/DX	14.520	14.125	14.520	1.750	0.197	313.76
WR150201250-197/DX	15.020	14.625	15.020	1.250	0.197	274.49
WR150201500-197/DX	15.020	14.625	15.020	1.500	0.197	348.80
WR150301250-197/DX*	15.030	14.625	15.030	1.250	0.197	274.49

0.202" - Cross Section - 0.202"

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
WR075301250-202/DX*	7.530	7.125	7.520	1.250	0.202	83.60
WR125302000-202/DX*	12.530	12.125	12.530	2.000	0.202	269.54
WR145301750-202/DX	14.530	14.125	14.530	1.750	0.202	313.76
WR150301500-202/DX*	15.030	14.625	15.030	1.500	0.202	348.80

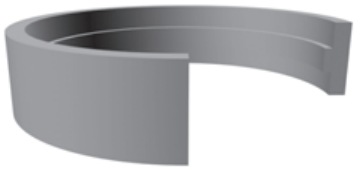
1/4" - Cross Section - 0.250"

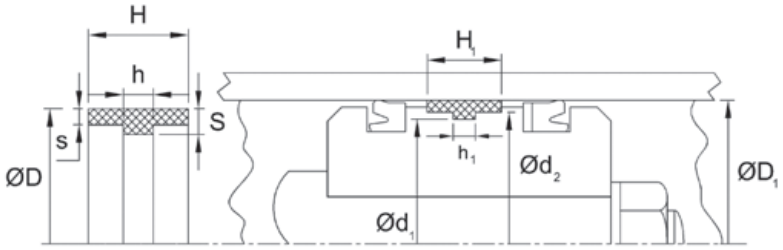
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions D	H	S	$
W4120000500/DX*	12.000	11.500	12.000	0.500	0.250	49.50

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

TWR - Guiding Elements

GF.Nylon





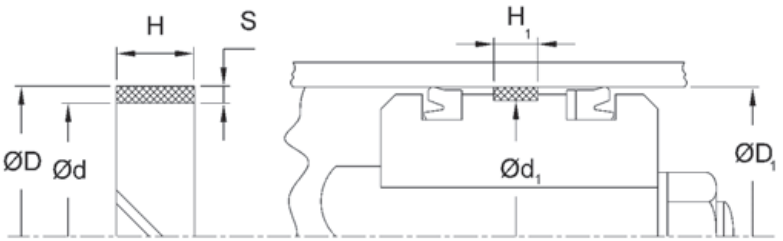
Temperature: -40/250F [-40/250C] **Pressure:**

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	4.22
TWR016250562*	1.625	+.003 / -.000	1.625		0.160 / 0.165	0.062 / 0.067	0.552 / 0.562	0.180 / 0.185	4.34
TWR020000442*	2.000	+.003 / -.000	2.000		0.160 / 0.165	0.062 / 0.067	0.432 / 0.442	0.180 / 0.185	4.69
TWR022500442	2.250	+.003 / -.000	2.250		0.160 / 0.165	0.062 / 0.067	0.432 / 0.442	0.180 / 0.185	4.51
TWR027500567*	2.750	+.003 / -.000	2.750		0.157 / 0.163	0.062 / 0.067	0.557 / 0.567	0.180 / 0.185	4.63
TWR030000570	3.000	+.003 / -.000	3.000		0.145 / 0.155	0.062 / 0.067	0.560 / 0.570	0.180 / 0.185	4.78
TWR035000750	3.500	+.003 / -.000	3.500		0.145 / 0.155	0.062 / 0.067	0.740 / 0.750	0.245 / 0.250	6.70
TWR040000570	4.000	+.004 / -.000	4.000		0.145 / 0.155	0.062 / 0.067	0.560 / 0.570	0.180 / 0.185	6.82
TWR045000750	4.500	+.004 / -.000	4.500		0.145 / 0.155	0.062 / 0.067	0.740 / 0.750	0.245 / 0.250	7.23
TWR055000750	5.500	+.004 / -.000	5.500		0.145 / 0.155	0.062 / 0.067	0.740 / 0.750	0.245 / 0.250	9.23
TWR060000630	6.000	+.004 / -.000	6.000		0.145 / 0.155	0.062 / 0.067	0.620 / 0.630	0.245 / 0.250	10.11
TWR063750750*	6.375	+.004 / -.000	6.375		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	16.67
TWR065000750	6.500	+.004 / -.000	6.500		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	11.46
TWR073750750*	7.375	+.005 / -.000	7.375		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	19.96
TWR075000750	7.500	+.005 / -.000	7.500		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	12.45
TWR083750750*	8.375	+.005 / -.000	8.375		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	35.30
TWR085000750*	8.500	+.005 / -.000	8.500		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	20.55
TWR097500750	9.750	+.005 / -.000	9.750		0.120 / 0.130	0.060 / 0.064	0.740 / 0.750	0.222 / 0.240	29.36

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

WS-BR60 - Wear Strip

60% BR.PTFE



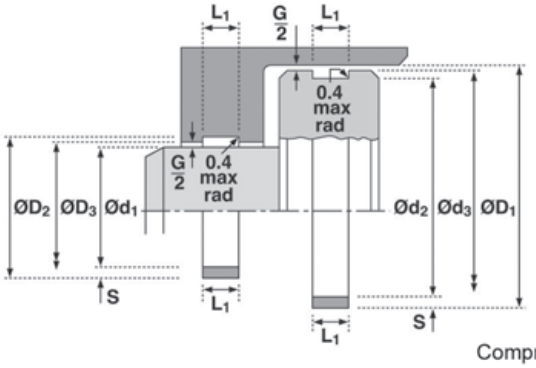
Temperature: -148/392F [-100/200C] **Pressure: 1400 PSI [96 Bar]**

Ref.Number	Nominal Seal Dimensions				$ Per foot
	H	TOL.	S	TOL.	
WS00250062/BR60	0.250	+.000 / -.010	0.062	+.000 / -.005	12.75
WS00250093/BR60	0.250	+.000 / -.010	0.093	+.000 / -.005	10.44
WS00250125/BR60	0.250	+.000 / -.010	0.125	+.000 / -.005	14.38
WS00375062/BR60	0.375	+.000 / -.010	0.062	+.000 / -.005	13.60
WS00375093/BR60	0.375	+.000 / -.010	0.093	+.000 / -.005	11.38
WS00375125/BR60	0.375	+.000 / -.010	0.125	+.000 / -.005	10.94
WS00500062/BR60	0.500	+.000 / -.010	0.062	+.000 / -.005	14.37
WS00500093/BR60	0.500	+.000 / -.010	0.093	+.000 / -.005	13.31
WS00500125/BR60	0.500	+.000 / -.010	0.125	+.000 / -.005	22.33
WS00625062/BR60	0.625	+.000 / -.010	0.062	+.000 / -.005	11.07
WS00625093/BR60	0.625	+.000 / -.010	0.093	+.000 / -.005	15.50
WS00625125/BR60	0.625	+.000 / -.010	0.125	+.000 / -.005	25.98
WS00750062/BR60	0.750	+.000 / -.010	0.062	+.000 / -.005	15.88
WS00750093/BR60	0.750	+.000 / -.010	0.093	+.000 / -.005	16.76
WS00750125/BR60	0.750	+.000 / -.010	0.125	+.000 / -.005	28.53
WS01000062/BR60	1.000	+.000 / -.010	0.062	+.000 / -.005	18.07
WS01000093/BR60	1.000	+.000 / -.010	0.093	+.000 / -.005	18.07
WS01000125/BR40	1.000	+.000 / -.010	0.125	+.000 / -.005	28.87
WS01000125/BR60	1.000	+.000 / -.010	0.125	+.000 / -.005	35.10
WS01250062/BR60	1.250	+.000 / -.010	0.062	+.000 / -.005	18.70
WS01250093/BR60*	1.250	+.000 / -.010	0.093	+.000 / -.005	28.72
WS01250125/BR60	1.250	+.000 / -.010	0.125	+.000 / -.005	36.81
WS01500062/BR60	1.500	+.000 / -.015	0.062	+.000 / -.005	21.01
WS01500093/BR60*	1.500	+.000 / -.015	0.093	+.000 / -.005	29.95
WS01500125/BR60	1.500	+.000 / -.015	0.125	+.000 / -.005	33.47
WS01750062/BR60*	1.750	+.000 / -.015	0.062	+.000 / -.005	23.63
WS01750093/BR60*	1.750	+.000 / -.015	0.093	+.000 / -.005	32.19
WS01750125/BR60	1.750	+.000 / -.015	0.125	+.000 / -.005	42.95
WS02000062/BR60*	2.000	+.000 / -.020	0.062	+.000 / -.005	25.95
WS02000093/BR60	2.000	+.000 / -.020	0.093	+.000 / -.005	35.39
WS02000125/BR60	2.000	+.000 / -.020	0.125	+.000 / -.005	47.19

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

WS-PR - Wear Strip

Polyester Resin



Compressive Strenght

Temperature: -40/250F [-40/121C]

Pressure: 60 000 PSI [4138 BAR]

Ref.Number	Nominal Dimensions	Housing Dimensions			$
	S	L1	Od1	OD1	
WS00375125/PR1*	0.125	0.375	1.000 - 1.375	1.625 - 3.500	15.31
WS00375125/PR2*	0.125	0.375	1.250 - 1.875	2.125 - 4.250	15.31
WS00375125/PR3*	0.125	0.375	2.000 - 3.500	3.750 - 6.250	15.31
WS00500125/PR1*	0.125	0.500	1.250 - 1.750	2.000- 4.000	15.98
WS00500125/PR2*	0.125	0.500	1.750 - 3.500	3.750 - 6.250	15.98
WS00500125/PR3	0.125	0.500	3.500 - 6.000	6.250 - 10.000	15.98
WS00500125/PR4*	0.125	0.500	8.000 - 12.500	12.750 - 25.000	15.98
WS00625125/PR1*	0.125	0.625	2.000 - 3.500	3.750 - 6.250	20.02
WS00625125/PR2*	0.125	0.625	3.500 - 6.000	6.250 - 10.000	20.02
WS00750125/PR1*	0.125	0.750	2.000 - 3.500	3.750 - 6.250	26.57
WS00750125/PR2	0.125	0.750	3.500 - 6.000	6.250 - 10.000	26.57
WS01000125/PR1*	0.125	1.000	2.500 - 3.500	3.750 - 6.250	27.43
WS01000125/PR2	0.125	1.000	3.500 - 6.000	6.250 - 10.000	27.43
WS01000125/PR3	0.125	1.000	8.000 - 12.500	12.750 - 25.00	27.43

OPERATING CONDITIONS

TEMPERATURE RANGE	-40°F TO 250°F	
LIMITING PV VALUES LUBRICATED	Speed ft/sec	pressure p.s.i.
	0.3	1500
	3.0	900
	16.0	120

WIDTH OF BEARING SPLIT - W

Od1/OD1	W
up to 2”	0.12-0.06
up to 5”	0.19-0.14
up to 10”	0.35-0.29
up to 22”	0.67-0.59

TYPICAL PHYSICAL PROPERTIES

SPECIFIC GRAVITY		1.27
COMPRESSION STRESS AT FAILURE	(temp 73°F)	65,000 p.s.i.
COMPRESSION STRESS AT YIELD	(temp 73°F)	16,500 p.s.i
COMPRESSION STRESS AT YIELD	(temp 176°F)	8,500 p s.i
COEFFICIENT OF THERMAL CONDUCTIVITY		0.16 Btu/hft °F
COEFFICIENT OF THERMAL EXPANSION	Lenght	thickness
	5 x 10-5 per °F	7.3 x 10-5 per°F
COEFFICIENT OF DYNAMIC FRICTION	Dry	Lubricated
on steel surface (0.2μm Ra)/(8μin CLA)	0.50	0.06

HOUSING DETAILS & TOLERANCES

ROD	Od1	f9
	OD2=Od1 +2 c/s	up to: O3” H10
		above O3” H9
	OD3=Od1 + G	G min/max
		+0.008 -0 mm
PISTON	OD1	H11
	Od2=OD1-2 c/s	f9
	Od3=OD1 + G	G min/max
	H1	+0.008 -0 mm

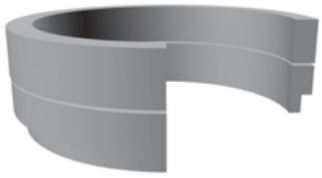
BEARING STRIP TOLERANCES

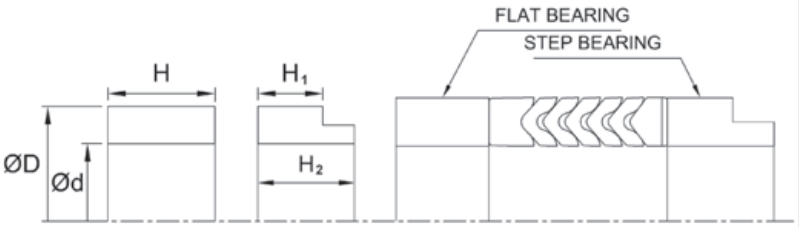
H1	C/S
-0.005 to -0.015	-0.001 to -0.004

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

BEARINGS (Telescopic)

Nylon





Temperature: -40/250F [-40/121C] **Pressure:**

FLAT BEARING

Ref.Number	Stage O.D.	Nominal Bearing Dimensions d	D	H	$
COMMERCIAL INTERTECH					
CI-02750BRF	2.750	2.750	3.375	1.000	17.28
CI-03750BRF	3.750	3.750	4.375	1.000	17.32
CI-04750BRF	4.750	4.750	5.375	1.000	27.51
CI-05750BRF	5.750	5.750	6.375	1.000	31.64
CI-06750BRF	6.750	6.750	7.375	1.000	33.22
CI-07905BRF	7.905	7.905	8.543	1.000	50.09
CI-09375BRF	9.375	9.375	10.000	1.000	105.06
HYCO					
HYC-03000BRF	3.000	3.000	3.500	0.750	10.43
HYC-04000BRF	4.000	4.000	4.500	0.750	10.43
HYC-05000BRF	5.000	5.000	5.500	0.750	10.98
HYC-06000BRF	6.000	6.000	6.500	0.750	12.99
HYC-07000BRF	7.000	7.000	7.500	0.750	14.14
HYC-08000BRF	8.000	8.000	8.500	0.750	17.13
HYC-08125BRF	8.125	8.125	8.625	0.750	47.77
HYC-08250BRF	8.250	8.250	9.000	0.750	49.74
HYC-09000BRF	9.000	9.000	9.750	0.750	54.99
HYC-09125BRF	9.125	9.125	9.625	0.750	60.84
HYC-09375BRF	9.375	9.375	9.875	0.750	60.84
HYC-09750BRF*	9.750	9.750	10.500	0.750	73.85

STEP BEARING

Ref.Number	Stage O.D.	Nominal Bearing Dimensions d	D	H1	H2	$
COMMERCIAL INTERTECH						
HYCO						
HYC-03000BRS	3.000	3.000	3.500	0.445	0.570	10.24
HYC-04000BRS	4.000	4.000	4.500	0.445	0.570	10.24
HYC-05000BRS	5.000	5.000	5.500	0.445	0.570	10.76
HYC-06000BRS	6.000	6.000	6.500	0.445	0.570	12.75
HYC-07000BRS	7.000	7.000	7.500	0.445	0.570	13.86
HYC-08000BRS	8.000	8.000	8.500	0.445	0.570	16.79
HYC-08125BRS	8.125	8.125	8.625	0.445	0.570	47.90
HYC-08250BRS	8.250	8.250	9.000	0.445	0.570	54.71
HYC-09000BRS	9.000	9.000	9.750	0.445	0.570	57.72
HYC-09125BRS	9.125	9.125	9.625	0.445	0.570	60.84
HYC-09375BRS	9.375	9.375	9.875	0.445	0.570	64.88
HYC-09750BRS*	9.750	9.750	10.500	0.445	0.570	70.78

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

BEARING FOR TELESCOPIC CYLINDERS SERIES - NYLON

FLAT BEARING

Ref.Number	Stage O.D.	Nominal Bearing Dimensions d	D	H	$
PEABODY GALION					
PG-02970BRF*	2.970	2.970	3.520	0.750	18.24
PG-03970BRF	3.970	3.970	4.520	0.750	15.01
PG-04970BRF	4.970	4.970	5.520	0.750	15.33
PG-05970BRF	5.970	5.970	6.650	0.750	18.87
PG-06970BRF*	6.970	6.970	7.520	0.750	20.12
PG-07970BRF*	7.970	7.970	8.520	0.750	21.30
WARD					
WAR-02950BRF	2.950	2.950	3.500	0.750	42.29
WAR-03950BRF	3.950	3.950	4.500	0.750	49.59
WAR-04950BRF	4.950	4.950	5.500	0.750	56.15
WAR-05950BRF	5.950	5.950	6.500	0.750	58.73
WAR-06950BRF	6.950	6.950	7.500	0.750	81.18
WAR-07950BRF	7.950	7.950	8.500	0.750	101.63
WAR-08950BRF	8.950	8.950	9.500	0.750	103.03
CUSTOM HOIST					
CH-1BU11/3	3.000	3.000	3.500	0.750	10.80
CH-1BU11/3187	3.187	3.187	3.687	0.750	16.44
CH-1BU11/4	4.000	4.000	4.500	0.750	10.80
CH-1BU11/4125	4.125	4.125	4.625	0.750	16.97
CH-1BU11/5	5.000	5.000	5.500	0.750	11.37
CH-1BU11/5062	5.062	5.062	5.562	0.750	17.05
CH-1BU11/6	6.000	6.000	6.500	0.750	13.46
CH-1BU11/7	7.000	7.000	7.500	0.750	14.65
CH-1BU11/8	8.000	8.000	8.500	0.750	17.75
CH-1BU11/825	8.250	8.250	8.625	0.750	33.62
CH-1BU11/912*	9.125	9.125	9.625	0.750	40.35

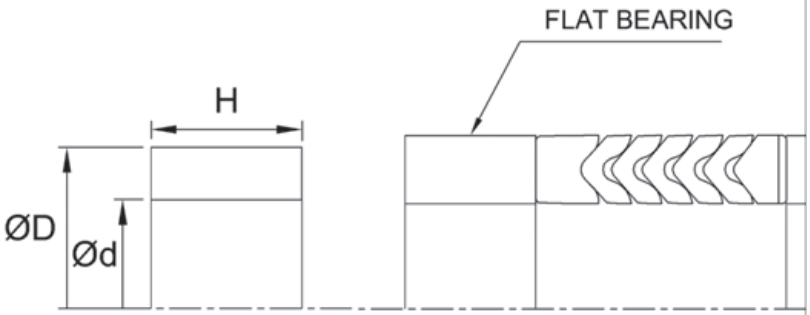
STEP BEARING

Ref.Number	Stage O.D.	Nominal Bearing Dimensions d	D	H1	H2	$
PEABODY GALION						
WARD						
WAR-02950BRS	2.950	2.950	3.500	0.630	0.750	42.29
WAR-03950BRS	3.950	3.950	4.500	0.630	0.750	49.59
WAR-04950BRS	4.950	4.950	5.500	0.630	0.750	56.15
WAR-05950BRS	5.950	5.950	6.500	0.630	0.750	58.73
WAR-06950BRS	6.950	6.950	7.500	0.630	0.750	81.18
WAR-07950BRS	7.950	7.950	8.500	0.630	0.750	101.63
WAR-08950BRS	8.950	8.950	9.500	0.630	0.750	103.03
CUSTOM HOIST						
CH-1BU195/3	3.000	3.000	3.500	0.500	0.750	13.66
CH-1BU195/4	4.000	4.000	4.500	0.500	0.750	14.05
CH-1BU195/5	5.000	5.000	5.500	0.500	0.750	15.28
CH-1BU195/6	6.000	6.000	6.500	0.500	0.750	16.44
CH-1BU195/7	7.000	7.000	7.500	0.500	0.750	18.65
CH-1BU195/8	8.000	8.000	8.500	0.500	0.750	21.85
CH-1BU195/825*	8.250	8.250	8.625	0.500	0.750	51.03
CH-1BU195/912*	9.125	9.125	9.625	0.500	0.750	60.84

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

54 - BEARING

Nylon



Temperature: -40/250F [-40/121C] **Pressure:**

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
54-100-150-025*	1.000	1.500	0.250	15.28
54-125-150-100*	1.250	1.500	1.000	11.87
54-125-175-050*	1.250	1.750	0.500	11.77
54-125-175-075*	1.250	1.750	0.750	21.24
54-125-175-084*	1.250	1.750	0.844	12.47
54-125-175-100*	1.250	1.750	1.000	11.52
54-125-187-125*	1.250	1.875	1.250	19.18
54-150-162-097*	1.500	1.625	0.975	5.26
54-150-175-075*	1.500	1.750	0.750	O/R
54-150-175-100*	1.500	1.750	1.000	5.40
54-150-200-041*	1.500	2.000	0.410	23.00
54-150-200-050*	1.500	2.000	0.500	23.00
54-150-200-058*	1.500	2.000	0.580	15.36
54-150-200-075*	1.500	2.000	0.750	8.85
54-150-200-100*	1.500	2.000	1.000	24.42
54-150-212-150	1.500	2.125	1.500	28.97
54-150-300-037*	1.500	3.000	0.375	48.44
54-175-187-097*	1.750	1.875	0.975	5.39
54-175-200-100	1.750	2.000	1.000	5.72
54-175-225-037*	1.750	2.250	0.375	22.16
54-175-225-040	1.750	2.250	0.406	8.19
54-175-225-043*	1.750	2.250	0.437	6.02
54-175-225-050*	1.750	2.250	0.500	22.43
54-175-225-075*	1.750	2.250	0.750	8.37
54-175-225-087	1.750	2.250	0.875	31.43
54-175-225-100*	1.750	2.250	1.000	24.91
54-175-250-050*	1.750	2.500	0.500	O/R
54-200-212-097*	2.000	2.125	0.975	5.60
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	5.91

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-200-225-150*	2.000	2.250	1.500	19.18
54-200-250-025*	2.000	2.500	0.250	17.73
54-200-250-050	2.000	2.500	0.500	9.21
54-200-250-058*	2.000	2.500	0.580	6.82
54-200-250-070*	2.000	2.500	0.700	58.87
54-200-250-075	2.000	2.500	0.750	9.08
54-200-250-087	2.000	2.500	0.875	14.67
54-200-250-100	2.000	2.500	1.000	14.69
54-200-250-150*	2.000	2.500	1.500	33.08
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	11.24
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	7.50
54-225-250-150*	2.250	2.500	1.500	O/R
54-225-250-155*	2.250	2.500	1.550	8.95
54-225-250-225*	2.250	2.500	2.250	10.65
54-225-275-050*	2.250	2.750	0.500	34.07
54-225-275-058*	2.250	2.750	0.580	9.51
54-225-275-075*	2.250	2.750	0.750	9.13
54-225-275-100*	2.250	2.750	1.000	26.44
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	14.85
54-250-262-147*	2.500	2.625	1.475	10.02
54-250-275-050*	2.500	2.750	0.500	O/R
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	7.15
54-250-275-155*	2.500	2.750	1.550	9.97
54-250-300-025*	2.500	3.000	0.250	7.77
54-250-300-040*	2.500	3.000	0.406	14.76
54-250-300-050	2.500	3.000	0.500	25.90
54-250-300-058*	2.500	3.000	0.580	6.27
54-250-300-062*	2.500	3.000	0.625	19.20

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

54 BEARING SERIES - NYLON

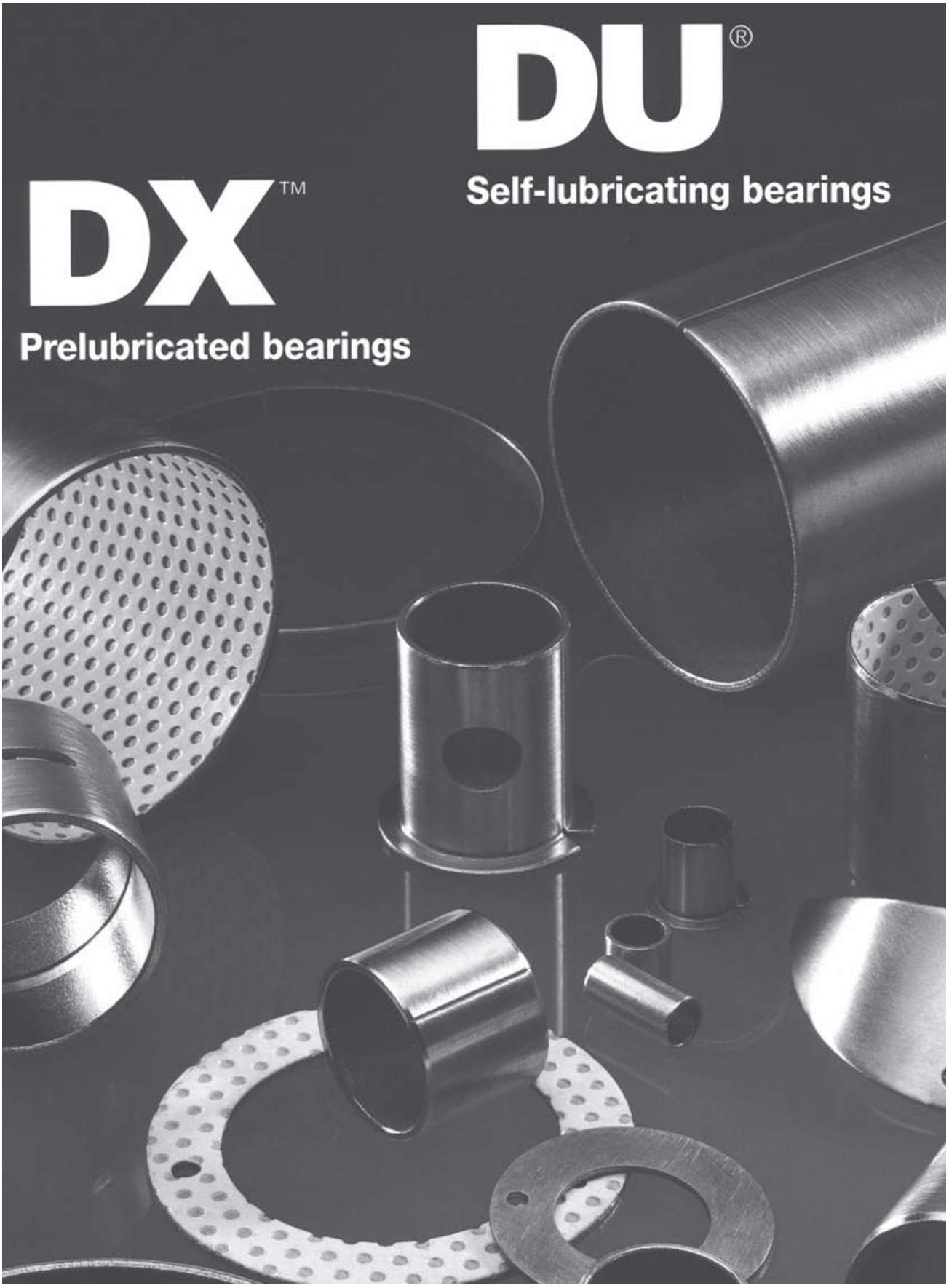
Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-250-300-075	2.500	3.000	0.750	9.48
54-250-300-087*	2.500	3.000	0.875	33.31
54-250-300-100	2.500	3.000	1.000	30.16
54-250-300-137*	2.500	3.000	1.375	45.08
54-250-300-150*	2.500	3.000	1.500	15.68
54-250-312-050*	2.500	3.125	0.500	O/R
54-250-312-100*	2.500	3.125	1.000	50.97
54-250-325-075	2.500	3.250	0.750	O/R
54-250-501-075*	2.500	5.010	0.750	151.97
54-262-337-050*	2.625	3.375	0.500	22.70
54-275-300-155*	2.750	3.000	1.550	16.63
54-275-325-075*	2.750	3.250	0.750	35.60
54-275-325-100	2.750	3.250	1.000	17.84
54-275-325-150*	2.750	3.250	1.500	51.65
54-275-337-100*	2.750	3.375	1.000	17.28
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	12.01
54-300-318-087DX*	3.000	3.187	0.870	36.34
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	7.07
54-300-350-050*	3.000	3.500	0.500	7.25
54-300-350-075*	3.000	3.500	0.750	10.43
54-300-350-087*	3.000	3.500	0.875	36.37
54-300-350-100	3.000	3.500	1.000	15.04
54-300-350-150*	3.000	3.500	1.500	19.49
54-300-362-062*	3.000	3.625	0.625	38.61
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	15.86
54-312-350-084*	3.125	3.500	0.845	16.18
54-325-350-155*	3.250	3.500	1.550	10.45
54-325-362-037*	3.250	3.625	0.375	15.53
54-325-362-225*	3.250	3.625	2.250	O/R
54-325-375-100*	3.250	3.750	1.000	38.70
54-325-375-125*	3.250	3.750	1.250	44.50
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	5.64
54-350-400-047*	3.500	4.000	0.470	6.52
54-350-400-050*	3.500	4.000	0.500	20.28
54-350-400-075	3.500	4.000	0.750	37.13
54-350-400-087*	3.500	4.000	0.875	37.74
54-350-400-100	3.500	4.000	1.000	28.82
54-350-400-175*	3.500	4.000	1.750	73.12
54-350-400-300	3.500	4.000	3.000	96.66
54-350-425-050*	3.500	4.250	0.500	21.63
54-350-425-075*	3.500	4.250	0.750	47.92
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	123.09
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	102.92
54-375-425-075*	3.750	4.250	0.750	48.48
54-375-425-100*	3.750	4.250	1.000	18.98
54-375-437-087*	3.750	4.375	0.875	71.25
54-375-437-100*	3.750	4.375	1.000	17.32
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	5.72
54-400-450-037*	4.000	4.500	0.375	26.89
54-400-450-050*	4.000	4.500	0.500	29.32
54-400-450-075*	4.000	4.500	0.750	10.43
54-400-450-084*	4.000	4.500	0.845	19.00
54-400-450-087*	4.000	4.500	0.875	25.37
54-400-450-093	4.000	4.500	0.937	26.75
54-400-450-100*	4.000	4.500	1.000	16.35
54-400-450-112*	4.000	4.500	1.125	63.72
54-400-450-125*	4.000	4.500	1.250	64.25
54-400-450-150*	4.000	4.500	1.500	33.15
54-400-450-175*	4.000	4.500	1.750	67.01

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

54 BEARING SERIES - NYLON

Ref.Number	Nominal Rod Dia.	Nominal Bore Dia.	Bearing Width	$
54-400-450-200*	4.000	4.500	2.000	68.46
54-400-450-275*	4.000	4.500	2.750	75.26
54-400-462-100*	4.000	4.625	1.000	44.94
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	26.93
54-450-500-025*	4.500	5.000	0.250	7.95
54-450-500-045*	4.500	5.000	0.450	30.49
54-450-500-050*	4.500	5.000	0.500	30.49
54-450-500-062*	4.500	5.000	0.625	39.97
54-450-500-075	4.500	5.000	0.750	28.41
54-450-500-100*	4.500	5.000	1.000	42.67
54-450-512-031*	4.500	5.125	0.312	O/R
54-475-525-100*	4.750	5.250	1.000	20.48
54-475-525-200*	4.750	5.250	2.000	41.51
54-475-537-100*	4.750	5.375	1.000	26.87
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	29.17
54-500-550-050*	5.000	5.500	0.500	31.71
54-500-550-062*	5.000	5.500	0.625	41.18
54-500-550-075*	5.000	5.500	0.750	11.11
54-500-550-084*	5.000	5.500	0.845	24.03
54-500-550-087*	5.000	5.500	0.875	29.27
54-500-550-093	5.000	5.500	0.937	27.98
54-500-550-100*	5.000	5.500	1.000	20.24
54-500-550-150*	5.000	5.500	1.500	44.62
54-500-550-175*	5.000	5.500	1.750	79.99
54-500-550-212*	5.000	5.500	2.125	27.74
54-500-600-048*	5.000	6.000	0.480	43.63
54-500-650-075*	5.000	6.500	0.750	O/R
54-500-900-150	5.000	9.000	1.500	316.77
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	33.04
54-550-600-075*	5.500	6.000	0.750	43.94
54-550-600-100*	5.500	6.000	1.000	46.24
54-550-600-112*	5.500	6.000	1.125	49.94
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
54-575-625-100*	5.750	6.250	1.000	21.89
54-575-637-100*	5.750	6.375	1.000	30.90
54-595-650-037*	5.950	6.500	0.375	7.43
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	34.47
54-600-650-075*	6.000	6.500	0.750	13.15
54-600-650-084*	6.000	6.500	0.845	21.35
54-600-650-087*	6.000	6.500	0.875	33.09
54-600-650-093	6.000	6.500	0.937	29.40
54-600-650-100*	6.000	6.500	1.000	21.35
54-625-800-087*	6.250	8.000	0.875	O/R
54-650-700-050*	6.500	7.000	0.500	35.91
54-650-700-075*	6.500	7.000	0.750	47.76
54-650-700-100*	6.500	7.000	1.000	50.21
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	37.71
54-700-750-075*	7.000	7.500	0.750	14.31
54-700-750-100*	7.000	7.500	1.000	21.45
54-750-800-050*	7.500	8.000	0.500	39.33
54-750-800-100*	7.500	8.000	1.000	54.98
54-750-800-150*	7.500	8.000	1.500	96.11
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	17.34
54-800-850-100*	8.000	8.500	1.000	23.12
54-825-875-100*	8.250	8.750	1.000	60.97
54-825-900-050*	8.250	9.000	0.500	69.37
54-825-900-075*	8.250	9.000	0.750	32.83
54-825-900-100 *	8.250	9.000	1.000	O/R
54-850-900-050 *	8.500	9.000	0.500	67.22
54-850-900-100 *	8.500	9.000	1.000	79.09
54-900-950-050 *	9.000	9.500	0.500	90.54
54-900-950-100 *	9.000	9.500	1.000	98.02
54-900-975-050 *	9.000	9.750	0.500	O/R
54-900-975-075*	9.000	9.750	0.750	55.64
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
54-1000-1050-050*	10.000	10.500	0.500	98.48
54-1000-1050-100*	10.000	10.500	1.000	110.33

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


DU®
Self-lubricating bearings
DX™
Prelubricated bearings

"DU" BEARINGS - UP TO 2"

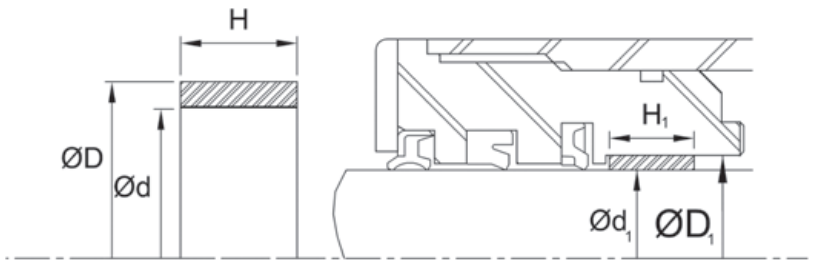
Nominal Bearing Bore	Recommended Shaft Dia.	Recommended Housing Bore	Installed Bearing ID*	Bearing Length and Part Number											
1/8	.1243 .1236	.1873 .1878	.1243 .1268	1/8	GB02DU02	3/16	GB02DU03								
5/32	.1554 .1547	.2186 .2191	.1556 .1581	5/32	GB025DU025	1/4	GB025DU04								
3/16	.1865 .1858	.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	.8118 .8150	3/4	GB13DU12	1 1/8	GB13DU18								
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	GB22DU24	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	GB24DU18	1 1/4	GB24DU20	1 1/2	GB24DU24	2	GB24DU32
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

"DU" BEARINGS - OVER 2"

Nominal Bearing Bore	Recommended Shaft Dia.	Recommended Housing Bore	Installed Bearing ID*	Bearing Length and Part Number											
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 2.2573	1 3/4	GB36DU28	2	GB36DU32	2 1/2	GB36DU40	3	GB36DU48	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	GB52DU48	3 1/2	GB52DU56	3 3/4	GB52DU60
3 1/2	3.5000 3.4978	3.6858 3.6872	3.5002 3.5068	2	GB56DU32	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 1/2	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	GB70DU48	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 6.4975	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

BR.PTFE/Steel



Temperature: -328/536F [-200/280C] **Pressure: 44000 PSI [3035 Bar]**

Ref.Number	Nominal Rod Dia.	Nominal Bearing Dimensions			$
		d	D	H	
GB02DU02*	0.125	0.125	0.187	0.125	2.35
GB02DU03*	0.125	0.125	0.187	0.187	2.35
GB025DU025*	0.156	0.155	0.218	0.155	2.35
GB025DU04*	0.156	0.155	0.218	0.250	2.54
GB03DU03*	0.187	0.187	0.250	0.187	2.54
GB03DU04*	0.187	0.187	0.250	0.250	2.72
GB03DU06*	0.187	0.187	0.250	0.375	2.90
GB04DU04*	0.250	0.250	0.312	0.250	3.56
GB04DU06*	0.250	0.250	0.312	0.375	3.92
GB05DU06*	0.312	0.312	0.375	0.375	4.05
GB05DU08*	0.312	0.312	0.375	0.500	4.17
GB06DU03*	0.375	0.375	0.468	0.187	3.67
GB06DU04	0.375	0.375	0.468	0.250	3.74
GB06DU06*	0.375	0.375	0.468	0.375	3.92
GB06DU08*	0.375	0.375	0.468	0.500	4.05
GB06DU10*	0.375	0.375	0.468	0.625	4.53
GB06DU12*	0.375	0.375	0.468	0.750	4.76
GB07DU08*	0.437	0.437	0.531	0.500	4.53
GB07DU12*	0.437	0.437	0.531	0.750	4.76
GB08DU04*	0.500	0.500	0.593	0.250	3.74
GB08DU06*	0.500	0.500	0.593	0.375	4.22
GB08DU08	0.500	0.500	0.593	0.500	4.53
GB08DU10*	0.500	0.500	0.593	0.625	4.83
GB08DU12*	0.500	0.500	0.593	0.750	4.89
GB08DU14*	0.500	0.500	0.593	0.875	4.95
GB09DU06*	0.562	0.562	0.656	0.375	4.53
GB09DU08*	0.562	0.562	0.656	0.500	4.70
GB09DU10*	0.562	0.562	0.656	0.625	5.25
GB09DU12*	0.562	0.562	0.656	0.750	5.37
GB10DU04*	0.625	0.625	0.718	0.250	3.86
GB10DU08*	0.625	0.625	0.718	0.500	4.83
GB10DU10*	0.625	0.625	0.718	0.625	5.25
GB10DU12*	0.625	0.625	0.718	0.750	5.37
GB10DU14*	0.625	0.625	0.718	0.875	5.43
GB10DU16*	0.625	0.625	0.718	1.000	5.92
GB11DU14*	0.687	0.687	0.781	0.875	5.74
GB12DU04*	0.750	0.750	0.875	0.250	3.92
GB12DU06*	0.750	0.750	0.875	0.375	4.83

Ref.Number	Nominal Rod Dia.	Nominal Bearing Dimensions			$
		d	D	H	
GB12DU08*	0.750	0.750	0.875	0.500	4.95
GB12DU10*	0.750	0.750	0.875	0.625	5.25
GB12DU12	0.750	0.750	0.875	0.750	5.37
GB12DU16	0.750	0.750	0.875	1.000	6.69
GB13DU12*	0.812	0.812	0.937	0.750	6.27
GB13DU18*	0.812	0.812	0.937	1.125	7.91
GB14DU04*	0.875	0.875	1.000	0.250	4.17
GB14DU06*	0.875	0.875	1.000	0.375	4.95
GB14DU12	0.875	0.875	1.000	0.750	5.85
GB14DU16	0.875	0.875	1.000	1.000	7.91
GB14DU20	0.875	0.875	1.000	1.250	9.78
GB16DU06	1.000	1.000	1.125	0.375	5.00
GB16DU08	1.000	1.000	1.125	0.500	5.37
GB16DU12	1.000	1.000	1.125	0.750	6.46
GB16DU16	1.000	1.000	1.125	1.000	8.27
GB16DU20	1.000	1.000	1.125	1.250	10.38
GB16DU24	1.000	1.000	1.125	1.500	12.06
GB18DU06*	1.125	1.125	1.281	0.375	5.37
GB18DU10*	1.125	1.125	1.281	0.625	8.89
GB18DU12	1.125	1.125	1.281	0.750	9.00
GB18DU16	1.125	1.125	1.281	1.000	9.17
GB20DU06	1.250	1.250	1.406	0.375	5.85
GB20DU12	1.250	1.250	1.406	0.750	9.65
GB20DU14*	1.250	1.250	1.406	0.875	9.96
GB20DU16	1.250	1.250	1.406	1.000	10.26
GB20DU20	1.250	1.250	1.406	1.250	10.49
GB20DU28	1.250	1.250	1.406	1.750	13.70
GB22DU12*	1.375	1.375	1.531	0.750	9.96
GB22DU16	1.375	1.375	1.531	1.000	10.57
GB22DU24*	1.375	1.375	1.531	1.500	13.04
GB22DU28*	1.375	1.375	1.531	1.750	14.31
GB24DU08*	1.500	1.500	1.656	0.500	6.69
GB24DU16	1.500	1.500	1.656	1.000	10.91
GB24DU20	1.500	1.500	1.656	1.250	11.89
GB24DU24	1.500	1.500	1.656	1.500	12.67
GB24DU32	1.500	1.500	1.656	2.000	14.79
GB26DU16	1.625	1.625	1.781	1.000	11.89
GB26DU24*	1.625	1.625	1.781	1.500	13.09

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

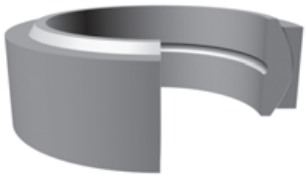
"DU" BEARING SERIES - BR.PTFE/STEEL

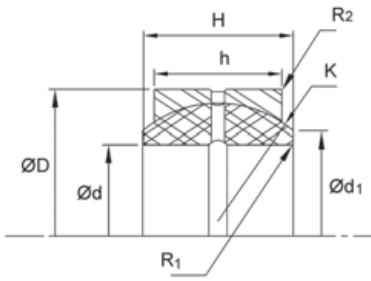
Ref.Number	Nominal Rod Dia.	Nominal Bearing Dimensions			$
		d	D	H	
GB28DU16	1.750	1.750	1.937	1.000	13.04
GB28DU24	1.750	1.750	1.937	1.500	17.98
GB28DU32*	1.750	1.750	1.937	2.000	19.19
GB30DU12*	1.875	1.875	2.062	0.750	10.97
GB30DU16*	1.875	1.875	2.062	1.000	14.48
GB30DU36*	1.875	1.875	2.062	2.250	22.03
GB32DU08*	2.000	2.000	2.187	0.500	11.89
GB32DU16	2.000	2.000	2.187	1.000	18.88
GB32DU24	2.000	2.000	2.187	1.500	20.33
GB32DU28*	2.000	2.000	2.187	1.750	20.94
GB32DU32	2.000	2.000	2.187	2.000	21.90
GB32DU40	2.000	2.000	2.187	2.500	27.27
GB34DU48*	2.125	2.125	2.312	3.000	69.67
GB36DU28	2.250	2.250	2.437	1.750	49.03
GB36DU32	2.250	2.250	2.437	2.000	50.61
GB36DU40*	2.250	2.250	2.437	2.500	58.54
GB36DU48*	2.250	2.250	2.437	3.000	70.61
GB40DU16	2.500	2.500	2.687	1.000	36.52
GB40DU32	2.500	2.500	2.687	2.000	51.31
GB40DU40	2.500	2.500	2.687	2.500	64.29
GB40DU48*	2.500	2.500	2.687	3.000	76.82
GB40DU56*	2.500	2.500	2.687	3.500	86.61
GB44DU32	2.750	2.750	2.937	2.000	55.59
GB44DU40*	2.750	2.750	2.937	2.500	69.63
GB44DU48*	2.750	2.750	2.937	3.000	79.29
GB44DU56*	2.750	2.750	2.937	3.500	96.87
GB46DU32*	2.875	2.875	3.062	2.000	63.82
GB46DU36*	2.875	2.875	3.062	2.250	71.06
GB46DU40*	2.875	2.875	3.062	2.500	78.66
GB46DU48*	2.875	2.875	3.062	3.000	83.42
GB48DU32	3.000	3.000	3.187	2.000	69.29
GB48DU40*	3.000	3.000	3.187	2.500	87.12
GB48DU48	3.000	3.000	3.187	3.000	95.76
GB48DU60*	3.000	3.000	3.187	3.750	119.66
GB52DU32*	3.250	3.250	3.437	2.000	76.52
GB52DU38*	3.250	3.250	3.437	2.375	97.27
GB52DU40*	3.250	3.250	3.437	2.500	98.72
GB52DU48*	3.250	3.250	3.437	3.000	103.42
GB56DU32	3.500	3.500	3.687	2.000	87.93
GB56DU38*	3.500	3.500	3.687	2.375	110.89
GB56DU40*	3.500	3.500	3.687	2.500	115.17
GB56DU60*	3.500	3.500	3.687	3.750	160.86
GB58DU32*	3.625	3.625	3.812	2.000	92.70
GB58DU40*	3.625	3.625	3.812	2.500	119.81
GB58DU48*	3.625	3.625	3.812	3.000	132.47
GB58DU60*	3.625	3.625	3.812	3.750	163.93
GB60DU32*	3.750	3.750	3.937	2.000	116.81
GB60DU40*	3.750	3.750	3.937	2.500	122.32
GB60DU48*	3.750	3.750	3.937	3.000	134.83
GB60DU56*	3.750	3.750	3.937	3.500	149.79
GB64DU32	4.000	4.000	4.187	2.000	135.88
GB64DU48*	4.000	4.000	4.187	3.000	158.14
GB64DU60*	4.000	4.000	4.187	3.750	198.66
GB64DU76*	4.000	4.000	4.187	4.750	251.41
GB68DU32*	4.250	4.250	4.437	2.000	138.49
GB68DU48*	4.250	4.250	4.437	3.000	162.25
GB68DU56*	4.250	4.250	4.437	3.500	182.31
GB68DU64*	4.250	4.250	4.437	4.000	214.72
GB70DU32*	4.375	4.375	4.562	2.000	143.30
GB70DU36*	4.375	4.375	4.562	2.250	151.18
GB70DU48*	4.375	4.375	4.562	3.000	167.01
GB70DU64*	4.375	4.375	4.562	4.000	217.55
GB72DU32*	4.500	4.500	4.687	0.875	158.26
GB72DU56*	4.500	4.500	4.687	3.500	195.59
GB72DU64*	4.500	4.500	4.687	4.000	231.59
GB72DU72*	4.500	4.500	4.687	4.500	288.50
GB76DU32*	4.750	4.750	4.937	2.000	163.13
GB76DU56*	4.750	4.750	4.937	3.500	213.04
GB76DU64*	4.750	4.750	4.937	4.000	262.77
GB76DU76*	4.750	4.750	4.937	4.750	319.29
GB80DU32*	5.000	5.000	5.187	2.000	173.67
GB80DU40*	5.000	5.000	5.187	2.500	206.89
GB80DU48*	5.000	5.000	5.187	3.000	241.45
GB80DU60*	5.000	5.000	5.187	3.750	279.41
GB84DU32*	5.250	5.250	5.437	2.000	179.76
GB84DU48*	5.250	5.250	5.437	3.000	252.92
GB84DU60*	5.250	5.250	5.437	3.750	295.35
GB84DU72*	5.250	5.250	5.437	4.500	334.43
GB88DU32*	5.500	5.500	5.687	2.000	213.32
GB88DU48*	5.500	5.500	5.687	3.000	261.26
GB88DU60*	5.500	5.500	5.687	3.750	313.38
GB88DU72*	5.500	5.500	5.687	4.500	359.41
GB92DU32*	5.750	5.750	5.937	2.000	227.06
GB92DU48*	5.750	5.750	5.937	3.000	288.40
GB92DU64*	5.750	5.750	5.937	4.000	354.77
GB92DU80*	5.750	5.750	5.937	5.000	416.21
GB96DU32*	6.000	6.000	6.187	2.000	252.05
GB96DU48*	6.000	6.000	6.187	3.000	311.81
GB96DU60*	6.000	6.000	6.187	3.750	353.73
GB96DU64*	6.000	6.000	6.187	4.000	378.94

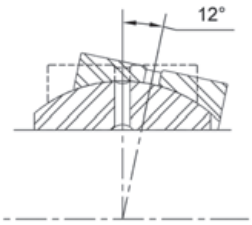
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SBB/Z - Spherical Ball Bushing

Steel (without seals)







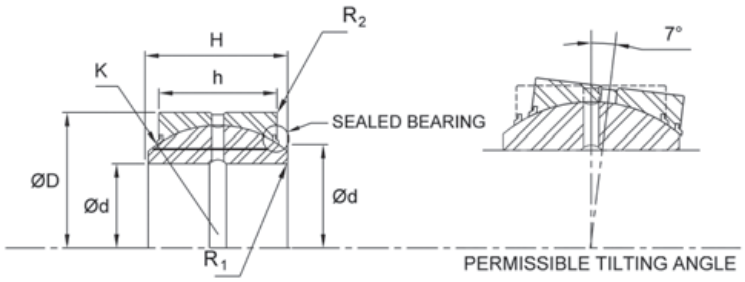
Temperature: **Pressure:**

Ref.Number	Nominal 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	22.75
SBB10/Z	0.625	0.625	0.705	1.062	0.469	0.547	0.906	0.008	0.031	25.03
SBB12/Z	0.750	0.750	0.843	1.250	0.562	0.656	1.083	0.024	0.031	23.52
SBB14/Z	0.875	0.875	0.984	1.437	0.656	0.765	1.260	0.024	0.031	21.23
SBB16/Z	1.000	1.000	1.102	1.625	0.750	0.875	1.417	0.024	0.031	20.48
SBB20/Z	1.250	1.250	1.382	2.000	0.937	1.093	1.772	0.024	0.031	29.56
SBB22/Z	1.375	1.375	1.516	2.187	1.031	1.187	1.929	0.024	0.031	44.74
SBB24/Z	1.500	1.500	1.705	2.437	1.125	1.312	2.165	0.024	0.031	38.68
SBB28/Z	1.750	1.750	1.984	2.812	1.312	1.531	2.520	0.024	0.031	53.09
SBB32/Z	2.000	2.000	2.268	3.187	1.500	1.750	2.874	0.024	0.031	72.05
SBB36/Z	2.250	2.250	2.555	3.562	1.687	1.969	3.228	0.024	0.031	98.59
SBB40/Z	2.500	2.500	2.835	3.937	1.875	2.187	3.583	0.024	0.031	133.49
SBB44/Z*	2.750	2.750	3.110	4.375	2.062	2.406	3.937	0.024	0.031	156.73
SBB48/Z	3.000	3.000	3.406	4.750	2.250	2.625	4.331	0.024	0.031	235.11
SBB52/Z	3.250	3.250	3.705	5.125	2.437	2.844	4.685	0.024	0.031	298.82
SBB56/Z	3.500	3.500	4.000	5.500	2.625	3.062	5.039	0.024	0.031	417.12
SBB60/Z	3.750	3.750	4.268	5.875	2.812	3.281	5.394	0.024	0.031	450.49
SBB64/Z	4.000	4.000	4.559	6.250	3.000	3.500	5.748	0.024	0.031	608.24
SBB68/Z*	4.250	4.250	4.827	6.625	3.187	3.719	6.102	0.031	0.043	731.44
SBB72/Z	4.500	4.500	5.110	7.000	3.375	3.937	6.457	0.031	0.043	796.33
SBB76/Z*	4.750	4.750	5.386	7.375	3.562	4.156	6.811	0.031	0.043	O/R
SBB80/Z*	5.000	5.000	5.705	7.750	3.750	4.375	7.205	0.031	0.043	1016.26
SBB96/Z*	6.000	6.000	6.594	8.750	4.125	4.750	8.150	0.031	0.043	1136.90

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

SBB-2RS/Z - Spherical Ball Bushing

Steel (with seals)



Temperature: **Pressure:**

Ref.Number	Nominal 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	44.09
SBB14-2RS/Z*	0.875	0.875	0.984	1.437	0.656	0.765	1.260	0.024	0.031	46.69
SBB16-2RS/Z	1.000	1.000	1.102	1.625	0.750	0.875	1.417	0.024	0.031	47.61
SBB20-2RS/Z	1.250	1.250	1.382	2.000	0.937	1.093	1.772	0.024	0.031	48.51
SBB22-2RS/Z	1.375	1.375	1.516	2.187	1.031	1.187	1.929	0.024	0.031	49.19
SBB24-2RS/Z	1.500	1.500	1.705	2.437	1.125	1.312	2.165	0.024	0.031	51.56
SBB28-2RS/Z	1.750	1.750	1.984	2.812	1.312	1.531	2.520	0.024	0.031	66.73
SBB32-2RS/Z	2.000	2.000	2.268	3.187	1.500	1.750	2.874	0.024	0.031	86.46
SBB36-2RS/Z	2.250	2.250	2.555	3.562	1.687	1.969	3.228	0.024	0.031	128.94
SBB40-2RS/Z	2.500	2.500	2.835	3.937	1.875	2.187	3.583	0.024	0.031	166.85
SBB44-2RS/Z	2.750	2.750	3.110	4.375	2.062	2.406	3.937	0.024	0.031	194.15
SBB48-2RS/Z	3.000	3.000	3.406	4.750	2.250	2.625	4.331	0.024	0.031	268.48
SBB52-2RS/Z*	3.250	3.250	3.705	5.125	2.437	2.844	4.685	0.024	0.031	432.20
SBB56-2RS/Z	3.500	3.500	4.000	5.500	2.625	3.062	5.039	0.024	0.031	462.63
SBB60-2RS/Z*	3.750	3.750	4.268	5.875	2.812	3.281	5.394	0.024	0.031	579.27
SBB64-2RS/Z	4.000	4.000	4.559	6.250	3.000	3.500	5.748	0.024	0.031	674.98
SBB68-2RS/Z*	4.250	4.250	4.827	6.625	3.187	3.719	6.102	0.031	0.043	1054.88
SBB72-2RS/Z	4.500	4.500	5.110	7.000	3.375	3.937	6.457	0.031	0.043	1276.17
SBB76-2RS/Z*	4.750	4.750	5.386	7.375	3.562	4.156	6.811	0.031	0.043	1793.96
SBB80-2RS/Z	5.000	5.000	5.705	7.750	3.750	4.375	7.205	0.031	0.043	2085.60
SBB96-2RS/Z*	6.000	6.000	6.594	8.750	4.125	4.750	8.150	0.031	0.043	2603.06

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

	O'RING GROOVE DESIGN AND INSTALLATION DATA	G	2
	COMPOUND SELECTION FOR FLUIDS AND CHEM.	G	13
	2-XXX SERIES	G	24
	O'RING BOSS GASKETS	G	42
	3-XXX SERIES	G	43
	HS2	G	44
	O'RING KITS AND ACCESSORIES	G	46
	FLANGE SEAL	G	48
	O'RING CORD	G	48
	VULC. O'RINGS (NBR)	G	49
	VULC. O'RINGS (FPM)	G	50
	VULC. O'RINGS (SI)	G	50
	VULC. O'RINGS (EPDM)	G	51
	8-XXX BACK-UP RINGS	G	52
	SD/N, ST/N, SD/T, ST/T SERIES	G	56
	8700	G	67
	PG SERIES	G	68
	BONDED SEAL TYP. APPL.	G	69
	BS400 BONDED SEAL	G	72
	BS400SC BONDED SEAL	G	72
	250 LOCK-O-SEAL	G	73
	800 LOCK-O-SEAL	G	74
	600 STAT-O-SEAL	G	75
	7500 THREADSEAL	G	76

O-Ring Groove Design Criteria and Installation Data*

Seal Applications

All seal applications may be broken down into static (the O-Ring and metal surfaces remain relatively fixed) or dynamic (the O-Ring moves relative to the mating surface).

Static Sealing

Most O-Rings are used in static service. They may be applied as face seals or radial seals. In face seal applications, the O-Ring should seat against the low pressure side of the groove.

Dynamic Sealing

A moving seal may be further classified by the type of motion: reciprocating, oscillating, or rotating. The greatest number of dynamic seals are used in reciprocating service in cylinders, valves, and linear actuators. Oscillating motion is encountered in swivels and valve stems. When an O-Ring is used on a rotating shaft, it should be limited to light duty where the shaft speed is low and some fluid bypass is acceptable.

In all dynamic applications, proper lubrication and good heat dissipation are essential to long seal life and performance. In pneumatic applications, supplemental lubrication should be provided. Lubricants should be selected on the basis of the material of which the O-Ring is made and the type of service to which it will be subjected. (See lubricant descriptions and applications information on page 71.)

Design standards have been developed for each of the standard O-Ring cross sections and diameters. These are published as SAE, MIL-Spec, and company standards. Adherence to the standard design recommendation will guarantee satisfactory seal performance in most instances. Special consideration should be given to the following areas:

Gland Shape

A basic rectangular groove is generally best. Special groove configurations are sometimes employed but are not recommended.

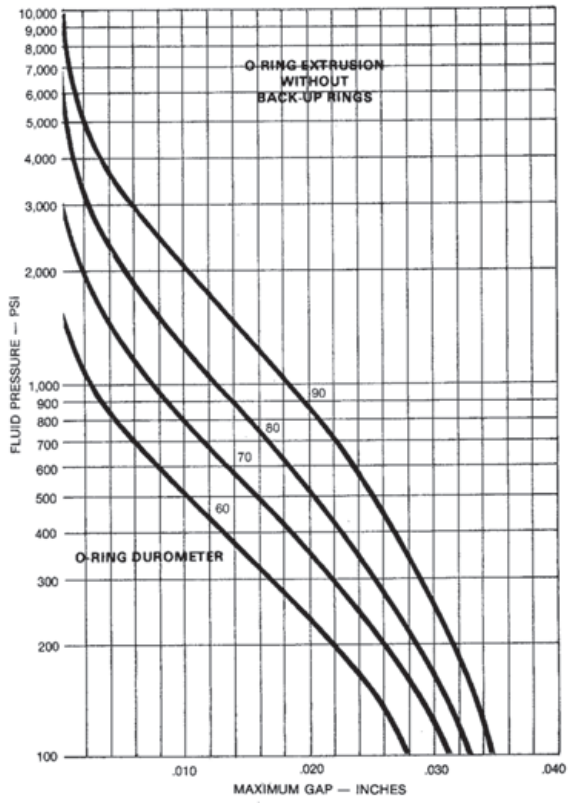
*Complete O-Ring groove design criteria and dimensional data compiled to include all compounds and applications can be quite voluminous. The information and data presented in this section is presented only as a basic introduction to the subject as a general guide for most compounds and applications. It is not intended to address all possible situations or contingencies.

Squeeze

Initial design squeeze or compression provides for low pressure sealing. Depending on the cross section (CS), a squeeze from 10% to 35% is recommended. Higher percentage squeeze may be tolerated in static seals where friction and wear are not considerations. In dynamic service, it is often desirable to reduce O-Ring compression to a minimum. As a rule, design squeeze should not fall below 0.010 inch.

Pressure

Up to a certain point, sealing is enhanced by pressure. However, pressure may cause an increase in friction and wear. Above 1500 psi, pressure may cause extrusion and seal failure in a standard gland configuration. An anti-extrusion back-up ring, made of a tough, cut-resistant material such as leather, PTFE, or hard rubber, is suggested. In static applications, it may be possible to modify the gland design to withstand the higher pressures without the addition of a back-up ring.



Surface Finish

The ideal surface finish for dynamic surfaces against which the O-Ring will rub is 5 to 16 μ inch RMS. Rougher and smoother surfaces may result in increased friction and reduced seal life. Rougher finishes up to 64 μ inch RMS can be tolerated in static applications.

Final Specification

End use plays a key role in O-Ring design. Dynamic seals, whether reciprocating, oscillating or rotating motion (or any combination of these) call for the highest degree of precision in O-Ring design because of the dimensional variations involved. Static applications on the other hand, permit wider tolerances, rougher surface finishes and greater applied pressure limits without danger of failure.

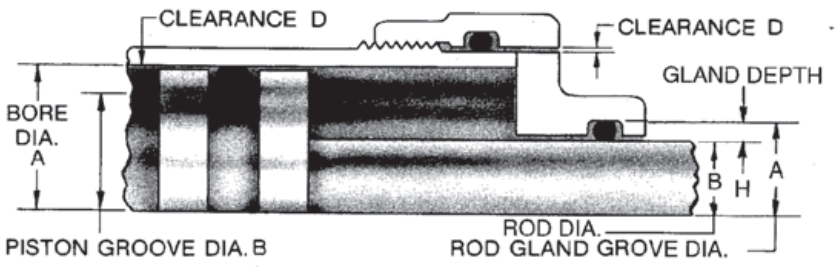
1. Improper mechanical design - may cause excessive pressure on O-Ring, abrasion from friction (particularly with dynamic seals), compression set.

2. Fluid attack - chemicals or oils may degrade O-Ring material; high fluid pressure may work O-Ring beyond its limits, cause extrusion flow.

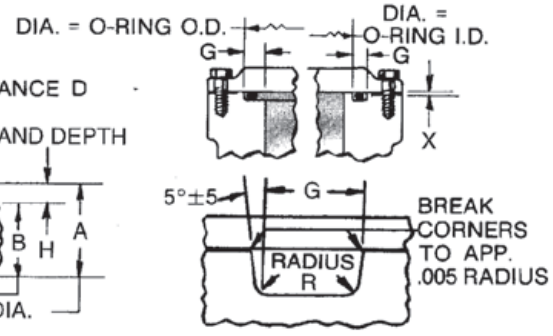
3. O-Ring design - dimension or cross-section may not be properly matched to the application; material may not be sufficient to withstand fluids, pressures, dynamic friction abrasion.

4. Temperatures - excessive heat (either from ambient or fluid conditions) can cause degradation; excessive cold can cause embrittlement.

Illustration of Industrial O-Ring Application



O-Ring Gland Design



Gland Dimensional Data (Inches)

AS 568A Dash Nos.	H Gland Depth	Squeeze		D Diametral Clearance	G Groove Width			R Radius
		Actual	%		No Back-Ups	One Back-Up	Two Back-Ups	
Reciprocating Seals								
006-012	.055 to .057	.010 to .018	15 to 25	.002 to .005	.093 to .098	.138 to .143	.205 to .210	.005 to .015
104-116	.088 to .090	.010 to .018	10 to 17	.002 to .005	.140 to .145	.171 to .176	.238 to .243	.005 to .015
201-222	.121 to .123	.012 to .022	9 to 16	.003 to .006	.187 to .192	.208 to .213	.275 to .280	.010 to .025
309-349	.185 to .188	.017 to .030	8 to 14	.003 to .006	.281 to .286	.311 to .316	.410 to .415	.020 to .035
425-460	.237 to .240	.029 to .044	11 to 16	.004 to .007	.375 to .380	.408 to .413	.538 to .543	.020 to .035
Static Seals								
004-050	.050 to .052	.015 to .023	22 to 32	.002 to .005	.093 to .098	.138 to .143	.205 to .210	.005 to .015
102-178	.081 to .083	.017 to .025	17 to 24	.002 to .005	.140 to .145	.171 to .176	.238 to .243	.005 to .015
201-284	.111 to .113	.022 to .032	16 to 23	.003 to .006	.187 to .192	.208 to .213	.275 to .280	.010 to .025
309-395	.170 to .173	.032 to .045	15 to 21	.003 to .006	.281 to .286	.311 to .316	.410 to .415	.020 to .035
425-475	.226 to .229	.040 to .055	15 to 20	.004 to .007	.375 to .380	.408 to .413	.538 to .543	.020 to .035

AS 568A Dash Nos.	X Groove Depth	Squeeze		G Groove Width		R Radius
		Actual	%	Liquids	Vacuum and Gases	
Face Seals						
004-050	.050 to .054	.013 to .023	19 to 32	.101 to .107	.084 to .089	.005 to .015
102-178	.074 to .080	.020 to .032	20 to 30	.136 to .142	.120 to .125	.005 to .015
201-284	.101 to .107	.028 to .042	20 to 30	.177 to .187	.158 to .164	.010 to .025
309-395	.152 to .162	.043 to .063	21 to 30	.270 to .290	.239 to .244	.020 to .035
425-475	.201 to .211	.058 to .080	21 to 29	.342 to .362	.309 to .314	.020 to .035

AS 568A Dash Nos.	H Gland Depth	Squeeze %	D Diametral Clearance	G Groove Width	R Radius
Rotary Seals					
004-045	.065 to .067	0-11	.012 to .016	.075 to .079	.005 to .015
102-163	.097 to .099	1-8.5	.012 to .016	.108 to .112	.005 to .015
201-258	.133 to .135	0-7	.016 to .020	.144 to .148	.010 to .025

Installation Data (Inches)

AS 568A DASH NOS.	Static Seals				Reciprocating Seals				Rotary Seals	
	ID Sealing		OD Sealing		ID Sealing		OD Sealing		ID Sealing	
	A	B	A	B	A	B	A	B	A	B
-001	.101	.040	.105	.044						
-001-1/2	.142	.081	.146	.085						
-002	.132	.053	.138	.059						
-003	.162	.067	.172	.077						
-004	.181	.081	.206	.106					.202	.072
-005	.212	.112	.237	.137					.233	.103
-006	.225	.125	.250	.150	.234	.124	.249	.139	.246	.116
-007	.256	.156	.281	.181	.265	.155	.280	.170	.277	.147
-008	.287	.187	.312	.212	.296	.186	.311	.201	.308	.178
-009	.318	.218	.343	.243	.328	.218	.343	.233	.340	.210
-010	.350	.250	.375	.275	.359	.249	.374	.264	.371	.241
-011	.412	.312	.437	.337	.421	.311	.436	.326	.433	.303
-012	.475	.375	.500	.400	.484	.374	.439	.389	.496	.366
-013	.537	.437	.562	.462					.558	.428
-014	.600	.500	.625	.525					.621	.491
-015	.662	.562	.687	.587					.683	.553
-016	.725	.625	.750	.650					.746	.616
-017	.787	.687	.812	.712					.808	.678
-018	.850	.750	.875	.775					.871	.741
-019	.912	.812	.937	.837					.933	.803
-020	.975	.875	1.000	.900					.996	.866
-021	1.037	.937	1.062	.962					1.058	.928
-022	1.100	1.000	1.125	1.025					1.121	.991
-023	1.162	1.062	1.187	1.087					1.183	1.053
-024	1.225	1.125	1.250	1.150					1.246	1.116
-025	1.287	1.187	1.312	1.212					1.308	1.178
-026	1.350	1.250	1.375	1.275					1.371	1.241
-027	1.412	1.312	1.437	1.337					1.433	1.303
-028	1.475	1.375	1.500	1.400					1.496	1.366
-029	1.600	1.500	1.625	1.525					1.621	1.491
-030	1.725	1.625	1.750	1.650					1.746	1.616
-031	1.850	1.750	1.875	1.775					1.871	1.741
-032	1.975	1.875	2.000	1.900					1.996	1.866
-033	2.100	2.000	2.125	2.025					2.121	1.991
-034	2.225	2.125	2.250	2.150					2.246	2.116
-035	2.350	2.250	2.375	2.275					2.371	2.241
-036	2.475	2.375	2.500	2.400					2.496	2.366
-037	2.600	2.500	2.625	2.525					2.621	2.491
-038	2.725	2.625	2.750	2.650					2.746	2.616
-039	2.850	2.750	2.875	2.775					2.871	2.741
-040	2.975	2.875	3.000	2.900					2.996	2.865

Recommended Tolerances (Inches)

AS 568A Dash Nos.	A	B
-004 through -012	+.000 -.001	+.000 -.001
-013 through -050	+.002 -.000	+.000 -.002
-120 through -178		
-201 through -284		
-309 through -395		
-425 through -475	+.003 -.000	+.000 -.003

Installation Data (Continued) (Inches)

AS 568A DASH NOS.	Static Seals				Reciprocating Seals				Rotary Seals	
	ID Sealing		OD Sealing		ID Sealing		OD Sealing		ID Sealing	
	A	B	A	B	A	B	A	B	A	B
-041	3.100	3.000	3.125	3.025					3.121	2.991
-042	3.350	3.250	3.375	3.275					3.371	3.241
-043	3.600	3.500	3.625	3.525					3.621	3.491
-044	3.850	3.750	3.875	3.775					3.871	3.741
-045	4.100	4.000	4.125	4.025					4.121	3.991
-046	4.350	4.250	4.375	4.275						
-047	4.600	4.500	4.625	4.525						
-048	4.850	4.750	4.875	4.775						
-049	5.100	5.000	5.125	5.025						
-050	5.350	5.250	5.375	5.275						
-102	.224	.062	.249	.087	.237	.061	.249	.073	.245	.051
-103	.256	.094	.281	.119	.269	.093	.281	.105	.277	.083
-104	.287	.125	.312	.150	.300	.124	.312	.136	.308	.114
-105	.318	.156	.343	.181	.331	.155	.343	.167	.339	.145
-106	.349	.187	.374	.212	.362	.186	.374	.198	.370	.176
-107	.381	.219	.406	.244	.394	.218	.406	.230	.402	.208
-108	.412	.250	.437	.275	.425	.249	.437	.261	.433	.239
-109	.474	.312	.499	.337	.487	.311	.499	.323	.495	.301
-110	.537	.375	.562	.400	.550	.374	.562	.386	.558	.364
-111	.599	.437	.625	.463	.612	.436	.624	.448	.620	.426
-112	.662	.500	.687	.525	.675	.499	.687	.511	.683	.489
-113	.724	.562	.750	.588	.737	.561	.749	.573	.745	.551
-114	.787	.625	.812	.650	.800	.624	.812	.636	.808	.614
-115	.849	.687	.875	.713	.862	.686	.874	.698	.870	.676
-116	.912	.750	.937	.775	.925	.749	.937	.761	.933	.739
-117	.974	.812	1.000	.838					.995	.801
-118	1.037	.875	1.062	.900					1.058	.864
-119	1.099	.937	1.125	.963					1.120	.926
-120	1.162	1.000	1.187	1.025					1.183	.989
-121	1.224	1.062	1.250	1.088					1.245	1.051
-122	1.287	1.125	1.312	1.150					1.308	1.114
-123	1.349	1.187	1.375	1.213					1.370	1.176
-124	1.412	1.250	1.437	1.275					1.433	1.239
-125	1.474	1.312	1.500	1.338					1.495	1.301
-126	1.537	1.375	1.562	1.400					1.558	1.364
-127	1.599	1.437	1.625	1.463					1.620	1.426
-128	1.662	1.500	1.687	1.525					1.683	1.489
-129	1.724	1.562	1.750	1.588					1.745	1.551
-130	1.787	1.625	1.812	1.650					1.808	1.614
-131	1.849	1.687	1.875	1.713					1.870	1.676
-132	1.912	1.750	1.937	1.775					1.933	1.739
-133	1.974	1.812	2.000	1.838					1.995	1.801
-134	2.037	1.875	2.062	1.900					2.058	1.864
-135	2.099	1.937	2.125	1.963					2.121	1.927
-136	2.162	2.000	2.187	2.025					2.183	1.989
-137	2.224	2.062	2.250	2.088					2.246	2.052
-138	2.287	2.125	2.312	2.150					2.308	2.114
-139	2.349	2.187	2.375	2.213					2.371	2.177
-140	2.412	2.250	2.437	2.275					2.433	2.239
-141	2.474	2.312	2.500	2.338					2.496	2.302
-142	2.537	2.375	2.562	2.400					2.558	2.364
-143	2.599	2.437	2.625	2.463					2.621	2.427
-144	2.662	2.500	2.687	2.525					2.683	2.489
-145	2.724	2.562	2.750	2.588					2.746	2.552

Installation Data (Continued) (Inches)

AS 568A DASH NOS.	Static Seals				Reciprocating Seals				Rotary Seals	
	ID Sealing		OD Sealing		ID Sealing		OD Sealing		ID Sealing	
	A	B	A	B	A	B	A	B	A	B
-146	2.787	2.625	2.812	2.650					2.808	2.614
-147	2.849	2.687	2.875	2.713					2.871	2.677
-148	2.912	2.750	2.937	2.775					2.933	2.739
-149	2.974	2.812	3.000	2.838					2.996	2.802
-150	2.037	2.875	3.062	2.900					3.058	2.864
-151	3.162	3.000	3.187	3.025					3.183	2.989
-152	3.412	3.250	3.437	3.275					3.433	3.239
-153	3.662	3.500	3.687	3.525					3.683	3.489
-154	3.912	3.750	3.937	3.775					3.933	3.739
-155	4.162	4.000	4.187	4.025					4.183	3.989
-156	4.412	4.250	4.437	4.275					4.433	4.239
-157	4.662	4.500	4.687	4.525					4.683	4.489
-158	4.912	4.750	4.937	4.775					4.933	4.739
-159	5.162	5.000	5.187	5.025					5.183	4.989
-160	5.412	5.250	5.437	5.275					5.433	5.239
-161	5.662	5.500	5.687	5.525					5.683	5.489
-162	5.912	5.750	5.937	5.775					5.933	5.739
-163	6.162	6.000	6.187	6.025					6.183	5.989
-164	6.412	6.250	6.437	6.275						
-165	6.662	6.500	6.687	6.525						
-166	6.912	6.750	6.937	6.775						
-167	7.162	7.000	7.187	7.025						
-168	7.412	7.250	7.437	7.275						
-169	7.662	7.500	7.687	7.525						
-170	7.912	7.750	7.937	7.775						
-171	8.162	8.000	8.187	8.025						
-172	8.412	8.250	8.437	8.275						
-173	8.662	8.500	8.687	8.525						
-174	8.912	8.750	8.937	8.775						
-175	9.162	9.000	9.187	9.025						
-176	9.412	9.250	9.437	9.275						
-177	9.662	9.500	9.687	9.525						
-178	9.912	9.750	9.937	9.775						
-201	.409	.187	.437	.215	.427	.185	.437	.195	.439	.173
-202	.472	.250	.500	.278	.500	.248	.500	.258	.502	.236
-203	.534	.312	.562	.340	.562	.310	.562	.320	.564	.298
-204	.597	.375	.625	.403	.625	.373	.625	.383	.627	.361
-205	.659	.437	.687	.465	.687	.435	.687	.445	.689	.423
-206	.722	.500	.750	.528	.750	.498	.750	.508	.752	.486
-207	.784	.562	.812	.590	.812	.560	.812	.570	.814	.548
-208	.847	.625	.875	.653	.875	.623	.875	.633	.877	.611
-209	.909	.687	.937	.715	.937	.685	.937	.695	.939	.673
-210	.972	.750	1.000	.778	.990	.748	1.000	.758	1.002	.736
-211	1.034	.812	1.062	.840	1.052	.810	1.062	.820	1.064	.798
-212	1.097	.875	1.125	.903	1.115	.873	1.125	.883	1.127	.861
-213	1.159	.937	1.187	.965	1.177	.935	1.187	.945	1.189	.923
-214	1.222	1.000	1.250	1.028	1.240	.998	1.250	1.008	1.252	.986
-215	1.284	1.062	1.312	1.090	1.302	1.060	1.312	1.070	1.314	1.048
-216	1.347	1.125	1.375	1.153	1.365	1.123	1.375	1.133	1.377	1.111
-217	1.409	1.187	1.437	1.215	1.427	1.185	1.437	1.195	1.439	1.173
-218	1.472	1.250	1.500	1.278	1.490	1.248	1.500	1.258	1.502	1.236
-219	1.534	1.312	1.562	1.340	1.552	1.310	1.562	1.320	1.564	1.298
-220	1.597	1.375	1.625	1.403	1.615	1.373	1.625	1.383	1.627	1.361

Installation Data (Continued) (Inches)

AS 568A DASH NOS.	Static Seals				Reciprocating Seals				Rotary Seals	
	ID Sealing		OD Sealing		ID Sealing		OD Sealing		ID Sealing	
	A	B	A	B	A	B	A	B	A	B
-221	1.659	1.437	1.687	1.465	1.677	1.435	1.687	1.445	1.689	1.423
-222	1.722	1.500	1.750	1.528	1.740	1.498	1.750	1.508	1.752	1.486
-223	1.847	1.625	1.875	1.653					1.877	1.611
-224	1.972	1.750	2.000	1.778					2.002	1.736
-225	2.097	1.875	2.125	1.903					2.127	1.861
-226	2.222	2.000	2.250	2.028					2.252	1.986
-227	2.347	2.125	2.375	2.153					2.377	2.111
-228	2.472	2.250	2.500	2.278					2.502	2.236
-229	2.597	2.375	2.625	2.403					2.627	2.361
-230	2.722	2.500	2.750	2.528					2.752	2.486
-231	2.847	2.625	2.875	2.653					2.877	2.611
-232	2.972	2.750	3.000	2.778					3.002	2.736
-233	3.097	2.875	3.125	2.903					3.127	2.861
-234	3.222	3.000	3.250	3.028					3.252	2.986
-235	3.347	3.125	3.375	3.153					3.377	3.111
-236	3.472	3.250	3.500	3.278					3.502	3.236
-237	3.597	3.375	3.625	3.403					3.627	3.361
-238	3.722	3.500	3.750	3.528					3.752	3.486
-239	3.847	3.625	3.875	3.653					3.877	3.611
-240	3.972	3.750	4.000	3.778					4.002	3.736
-241	4.097	3.875	4.125	3.903					4.127	3.861
-242	4.222	4.000	4.250	4.028					4.252	3.986
-243	4.347	4.125	4.375	4.153					4.377	4.111
-244	4.472	4.250	4.500	4.278					4.502	4.236
-245	4.597	4.375	4.625	4.403					4.627	4.361
-246	4.722	4.500	4.750	4.528					4.752	4.486
-247	4.847	4.625	4.875	4.653					4.877	4.611
-248	4.972	4.750	5.000	4.778					5.002	4.736
-249	5.097	4.875	5.125	4.903					5.127	4.861
-250	5.222	5.000	5.250	5.028					5.252	4.986
-251	5.347	5.125	5.375	5.153					5.377	5.111
-252	5.472	5.250	5.500	5.278					5.502	5.236
-253	5.597	5.375	5.625	5.403					5.627	5.361
-254	5.722	5.500	5.750	5.528					5.752	5.486
-255	5.847	5.625	5.875	5.653					5.877	5.611
-256	5.972	5.750	6.000	5.778					6.002	5.736
-257	6.097	5.875	6.125	5.903					6.127	5.861
-258	6.222	6.000	6.250	6.028					6.252	5.986
-259	6.472	6.250	6.500	6.278						
-260	6.722	6.500	6.750	6.528						
-261	6.972	6.750	7.000	6.778						
-262	7.222	7.000	7.250	7.028						
-263	7.472	7.250	7.500	7.278						
-264	7.722	7.500	7.750	7.528						
-265	7.972	7.750	8.000	7.778						
-266	8.222	8.000	8.250	8.028						
-267	8.472	8.250	8.500	8.278						
-268	8.722	8.500	8.750	8.528						
-269	8.972	8.750	9.000	8.778						
-270	9.222	9.000	9.250	9.028						
-271	9.472	9.250	9.500	9.278						
-272	9.722	9.500	9.750	9.528						
-273	9.972	9.750	10.000	9.778						
-274	10.222	10.000	10.250	10.028						
-275	10.722	10.500	10.750	10.528						

Installation Data (Continued) (Inches)

AS 568A DASH NOS.	Static Seals				Reciprocating Seals				Rotary Seals	
	ID Sealing		OD Sealing		ID Sealing		OD Sealing		ID Seals	
	A	B	A	B	A	B	A	B	A	B
-276	11.222	11.000	11.250	11.028						
-277	11.722	11.500	11.750	11.528						
-278	12.222	12.000	12.250	12.028						
-279	13.222	13.000	13.250	13.028						
-280	14.222	14.000	14.250	14.028						
-281	15.222	15.000	15.250	15.028						
-282	16.222	16.000	16.250	16.028						
-283	17.222	17.000	17.250	17.028						
-284	18.222	18.000	18.250	18.028						
-309	.777	.437	.812	.472	.805	.435	.812	.442		
-310	.840	.500	.875	.535	.868	.498	.875	.505		
-311	.902	.562	.937	.597	.930	.560	.937	.567		
-312	.965	.625	1.000	.660	.993	.623	1.000	.630		
-313	1.027	.687	1.062	.722	1.055	.685	1.062	.692		
-314	1.090	.750	1.125	.785	1.118	.748	1.125	.755		
-315	1.152	.812	1.187	.847	1.180	.810	1.187	.817		
-316	1.215	.875	1.250	.910	1.243	.873	1.250	.880		
-317	1.277	.937	1.312	.972	1.305	.935	1.312	.942		
-318	1.340	1.000	1.375	1.035	1.368	.998	1.375	1.005		
-319	1.402	1.062	1.437	1.097	1.430	1.060	1.437	1.067		
-320	1.465	1.125	1.500	1.160	1.493	1.123	1.500	1.130		
-321	1.527	1.187	1.562	1.222	1.555	1.185	1.562	1.192		
-322	1.590	1.250	1.625	1.285	1.618	1.248	1.625	1.255		
-323	1.652	1.312	1.687	1.347	1.680	1.310	1.687	1.317		
-324	1.715	1.375	1.750	1.410	1.743	1.373	1.750	1.380		
-325	1.840	1.500	1.875	1.535	1.868	1.498	1.875	1.505		
-326	1.965	1.625	2.000	1.660	1.993	1.623	2.000	1.630		
-327	2.090	1.750	2.125	1.785	2.118	1.748	2.125	1.755		
-328	2.215	1.875	2.250	1.910	2.243	1.873	2.250	1.880		
-329	2.340	2.000	2.375	2.035	2.368	1.998	2.375	2.005		
-330	2.465	2.125	2.500	2.160	2.493	2.123	2.500	2.130		
-331	2.590	2.250	2.625	2.285	2.618	2.248	2.625	2.255		
-332	2.715	2.375	2.750	2.410	2.743	2.373	2.750	2.380		
-333	2.840	2.500	2.875	2.535	2.868	2.498	2.875	2.505		
-334	3.965	2.625	3.000	2.660	2.993	2.623	3.000	2.630		
-335	3.090	2.750	3.125	2.785	3.118	2.748	3.125	2.755		
-336	3.215	2.875	3.250	2.910	3.243	2.873	3.250	2.880		
-337	3.340	3.000	3.375	3.035	3.368	2.998	3.375	3.005		
-338	3.465	3.125	3.500	3.160	3.493	3.123	3.500	3.130		
-339	3.590	3.250	3.625	3.285	3.618	3.248	3.625	3.255		
-340	3.715	3.375	3.750	3.410	3.743	3.373	3.750	3.380		
-341	3.840	3.500	3.875	3.535	3.868	3.498	3.875	3.505		
-342	3.965	3.625	4.000	3.660	3.993	3.623	4.000	3.630		
-343	4.090	3.750	4.125	3.785	4.118	3.748	4.125	3.755		
-344	4.215	3.875	4.250	3.910	4.243	3.873	4.250	3.880		
-345	4.340	4.000	4.375	4.035	4.368	3.998	4.375	4.005		
-346	4.465	4.125	4.500	4.160	4.493	4.123	4.500	4.130		
-347	4.590	4.250	4.625	4.285	4.618	4.248	4.625	4.255		
-348	4.715	4.375	4.750	4.410	4.743	4.373	4.750	4.380		
-349	4.840	4.500	4.875	4.535	4.868	4.498	4.875	4.505		
-350	4.965	4.625	5.000	4.660						
-351	5.090	4.750	5.125	4.785						
-352	5.215	4.875	5.250	4.910						
-353	5.340	5.000	5.375	5.035						
-354	5.465	5.125	5.500	5.160						
-355	5.590	5.250	5.625	5.285						

Installation Data (Continued) (Inches)

AS 568A DASH NOS.	Static Seals				Reciprocating Seals				Rotary Seals	
	ID Sealing		OD Sealing		ID Sealing		OD Sealing		ID Sealing	
	A	B	A	B	A	B	A	B	A	B
-356	5.715	5.375	5.750	5.410						
-357	5.840	5.500	5.875	5.535						
-358	5.965	5.625	6.000	5.660						
-359	6.090	5.750	6.125	5.785						
-360	6.215	5.875	6.250	5.910						
-361	6.340	6.000	6.375	6.035						
-362	6.590	6.250	6.625	6.285						
-363	6.840	6.500	6.875	6.535						
-364	7.090	6.750	7.125	6.785						
-365	7.340	7.000	7.375	7.035						
-366	7.590	7.250	7.625	7.285						
-367	7.840	7.500	7.875	7.535						
-368	8.090	7.750	8.125	7.785						
-369	8.340	8.000	8.375	8.035						
-370	8.590	8.250	8.625	8.285						
-371	8.840	8.500	8.875	8.535						
-372	9.090	8.750	9.125	8.785						
-373	9.340	9.000	9.375	9.035						
-374	9.590	9.250	9.625	9.285						
-375	9.840	9.500	9.875	9.535						
-376	10.090	9.750	10.125	9.785						
-377	10.340	10.000	10.375	10.035						
-378	10.840	10.500	10.875	10.535						
-379	11.340	11.000	11.375	11.035						
-380	11.840	11.500	11.875	11.535						
-381	12.340	12.000	12.375	12.035						
-382	13.340	13.000	13.375	13.035						
-383	14.340	14.000	14.375	14.035						
-384	15.340	15.000	15.375	15.035						
-385	16.340	16.000	16.375	16.035						
-386	17.340	17.000	17.375	17.035						
-387	18.340	18.000	18.375	18.035						
-388	19.340	19.000	19.375	19.035						
-389	20.340	20.000	20.375	20.035						
-390	21.340	21.000	21.375	21.035						
-391	22.340	22.000	22.375	22.035						
-392	23.340	23.000	23.375	23.035						
-393	24.340	24.000	24.375	24.035						
-394	25.340	25.000	25.375	25.035						
-395	26.340	26.000	26.375	26.035						
-425	4.952	4.500	5.000	4.584	4.971	4.497	5.002	4.528		
-426	5.077	4.625	5.125	4.673	5.096	4.622	5.127	4.653		
-427	5.202	4.750	5.250	4.798	5.221	4.747	5.252	4.778		
-428	5.327	4.875	5.373	4.923	5.346	4.872	5.377	4.903		
-429	5.452	5.000	5.500	5.048	5.471	4.997	5.502	5.028		
-430	5.577	5.125	5.625	5.173	5.596	5.122	5.627	5.153		
-431	5.702	5.250	5.750	5.298	5.721	5.247	5.752	5.278		
-432	5.827	5.375	5.875	5.423	5.846	5.372	5.877	5.403		
-433	5.952	5.500	6.000	5.548	5.971	5.497	6.002	5.528		
-434	6.077	5.625	6.125	5.673	6.096	5.622	6.127	5.653		
-435	6.202	5.750	6.250	5.798	6.221	5.747	6.252	5.778		
-436	6.327	5.875	6.375	5.923	6.346	5.872	6.377	5.903		
-437	6.452	6.000	6.500	6.048	6.471	5.997	6.502	6.028		
-438	6.702	6.250	6.750	6.298	6.721	6.247	6.752	6.278		
-439	6.952	6.500	7.000	6.548	6.971	6.497	7.002	6.528		
-440	7.202	6.750	7.250	6.798	7.221	6.747	7.252	6.778		

Installation Data (Continued) (Inches)

AS 568A DASH NOS.	Static Seals				Reciprocating Seals				Rotary Seals	
	ID Sealing		OD Sealing		ID Sealing		OD Sealing		ID Sealing	
	A	B	A	B	A	B	A	B	A	B
-441	7.452	7.000	7.500	7.048	7.471	6.997	7.502	7.028		
-442	7.702	7.250	7.750	7.298	7.721	7.247	7.752	7.278		
-443	7.952	7.500	8.000	7.548	7.971	7.497	8.002	7.528		
-444	8.202	7.750	8.250	7.798	8.221	7.747	8.252	7.778		
-445	8.452	8.000	8.500	8.048	8.471	7.997	8.502	8.028		
-446	8.952	8.500	9.000	8.548	8.971	8.497	9.002	8.528		
-447	9.452	9.000	9.500	9.048	9.471	8.997	9.502	9.028		
-448	9.952	9.500	10.000	9.548	9.971	9.497	10.002	9.528		
-449	10.452	10.000	10.500	10.048	10.471	9.997	10.502	10.028		
-450	10.952	10.500	11.000	10.548	10.971	10.497	11.002	10.528		
-451	11.452	11.000	11.500	11.048	11.471	10.997	11.502	11.028		
-452	11.952	11.500	12.000	11.548	11.971	11.497	12.002	11.528		
-453	12.452	12.000	12.500	12.048	12.471	11.997	12.502	12.028		
-454	12.592	12.500	13.000	12.548	12.971	12.497	13.002	12.528		
-455	13.452	13.000	13.500	13.048	13.471	12.997	13.502	13.028		
-456	13.952	13.500	14.000	13.548	13.971	13.497	14.002	13.528		
-457	14.452	14.000	14.500	14.048	14.471	13.997	14.502	14.028		
-458	14.952	14.500	15.000	14.548	14.971	14.497	15.002	14.528		
-459	15.452	15.000	15.500	15.048	15.471	14.997	15.502	15.028		
-460	15.952	15.500	16.000	15.548	15.971	15.497	16.002	15.528		
-461	16.452	16.000	16.500	16.048						
-462	16.952	16.500	17.000	16.548						
-463	17.452	17.000	17.500	17.048						
-464	17.952	17.500	18.000	17.548						
-465	18.452	18.000	18.500	18.048						
-466	18.952	18.500	19.000	18.548						
-467	19.452	19.000	19.500	19.048						
-468	19.952	19.500	20.000	19.548						
-469	20.452	20.000	20.500	20.048						
-470	21.452	21.000	21.500	21.048						
-471	22.452	22.000	22.500	22.048						
-472	23.452	23.000	23.500	23.048						
-473	24.452	24.000	24.500	24.048						
-474	25.452	25.000	25.500	25.048						
-475	26.452	26.000	26.500	26.048						

Compound Selection for Fluids and Chemicals

	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
Acetaldehyde	D	C	A	D	B	C	D	A	D	D
Acetamide	A	B	A	B	B	D	A	A	B	D
Acetic Acid, Glacial	C	D	A	C	B	B	D	B	C	D
Acetic Acid, 30%	B	A	A	B	A	B	B	B	D	D
Acetic Anhydride	C	B	B	D	C	B	D	B	D	D
Acetone	D	C	A	D	C	C	D	A	D	D
Acetophenone	D	D	A	D	D	D	D	A	D	D
Acetyl Chloride	D	D	D	A	C	D	A	D	D	D
Acetylene	A	B	A	A	B	B	E	A	A	D
Acrylonitrile	D	D	D	C	D	D	E	D	B	D
Adipic Acid	A	A	A	E	E	A	A	A	D	E
Alkazene (Dibromoethyl-benzene)	D	D	D	B	D	D	B	D	B	D
Alum-NH_3-Cr-K (aq)	A	A	A	D	A	A	D	A	A	E
Aluminum Acetate (aq)	B	B	A	D	D	B	D	A	A	D
Aluminum Chloride (aq)	A	A	A	A	B	A	A	A	A	C
Aluminum Fluoride (aq)	A	A	A	A	B	A	A	A	A	C
Aluminum Nitrate (aq)	A	A	A	A	B	A	E	A	A	C
Aluminum Phosphate (aq)	A	A	A	A	A	A	E	A	D	E
Aluminum Sulfate (aq)	A	A	A	A	A	A	A	A	A	D
Ammonia, Anhydrous	B	A	A	D	C	D	D	A	A	D
Ammonia Gas (cold)	A	A	A	D	A	A	D	A	A	E
Ammonia Gas (hot)	D	B	B	D	A	D	D	B	A	E
Ammonium Carbonate (aq)	D	A	B	E	E	A	E	A	A	D
Ammonium Chloride (aq)	A	A	A	A	E	A	E	A	A	A
Ammonium Hydroxide(conc.)	D	A	A	B	A	D	B	A	A	D
Ammonium Nitrate (aq)	A	A	A	E	E	B	E	A	A	E
Ammonium Nitrite (aq)	A	A	A	E	B	A	E	A	A	E
Ammonium Persulfate (aq)	D	A	A	E	E	D	E	A	A	D
Ammonium Phosphate (aq)	A	A	A	E	A	A	E	A	A	E
Ammonium Sulfate (aq)	A	A	A	D	E	A	E	A	A	E
Amyl Acetate(Banana Oil)	D	D	A	D	D	D	D	C	D	D
Amyl Alcohol	B	B	A	B	D	B	A	A	A	D
Amyl Borate	A	A	D	A	E	D	E	D	A	E
Amyl Chloronaphthalene	D	D	D	A	D	D	B	D	B	E
Amyl Naphthalene	D	D	D	A	D	D	A	D	B	D
Aniline	D	D	A	C	D	D	C	A	A	D
Aniline Dyes	D	B	A	B	C	B	B	B	A	D
Aniline Hydrochloride	B	D	B	B	D	D	B	B	A	D
Animal Fats	A	B	B	A	B	D	A	B	A	B
Ansul Ether(Anesthetics)	C	D	C	D	D	D	C	C	D	B
Aqua Regia	D	D	C	B	D	D	C	D	B	E
Aroclor, 1248	C	D	C	A	B	D	B	C	A	D
Aroclor, 1254	D	D	C	A	C	D	B	D	A	D
Aroclor, 1260	A	A	A	A	B	A	A	A	A	D
Arsenic Acid	A	A	A	A	A	A	A	A	A	C
Arsenic Trichloride (aq)	A	A	C	E	E	D	E	C	D	E
Askarel	B	D	D	A	D	D	B	D	A	D
Asphalt	B	B	D	A	D	D	B	D	A	B
ASTM Fuel A	A	B	D	A	D	D	A	D	B	A
ASTM Fuel B	A	C	D	A	D	D	A	D	D	B
ASTM Fuel C	A	C	D	A	D	D	A	D	D	D
ASTM Fuel D	A	C	D	A	D	D	A	D	D	E
ASTM Oil One	A	A	D	A	C	D	A	D	A	A
ASTM Oil Two	A	B	D	A	C	D	A	D	A	B

A. SATISFACTORY B. FAIR C. SEVERE EFFECT – EXCEPT FOR SOME STATIC APPLICATIONS D. UNSATISFACTORY E. INSUFFICIENT INFORMATION

Notes: (1) Temperature, concentrations, impurities, and other chemicals present can effect the chemical resistance of an elastomer. It is not possible to test in all chemicals and therefore some chemical resistance indicators are based on the manufacturer's best estimates known about various classes and the composition of the elastomer. Therefore, manufacturers do not certify results from a performance standpoint but state they should be used only as indicators of chemical resistance. American Packing and Gasket Company assumes no responsibility whatsoever.

(2) The information contained in these tables was derived from several sources and is to be used as a general guide only. Compounds suitable for any specific application rests solely by the end user. American Packing and Gasket Company assumes no responsibility whatsoever.

Compound Selection for Fluids and Chemicals (Continued)

	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
ASTM Oil Three	A	B	D	A	C	D	A	D	A	B
Barium Chloride (aq)	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide (aq)	A	A	A	A	A	A	A	A	A	D
Barium Sulfate (aq)	A	A	A	A	A	A	A	A	A	E
Barium Sulfide (aq)	A	A	A	A	A	B	A	A	A	A
Beer	A	A	A	A	A	A	A	A	A	B
Beet Sugar Liquors	A	B	A	A	A	A	A	A	A	D
Benzaldehyde	D	D	A	D	B	D	C	A	B	D
Benzene	D	D	D	A	D	D	C	D	C	D
Benzene Sulfonic Acid	D	B	C	A	D	D	B	D	D	D
Benzine (Ligroin) (Nitrobenzine)	A	B	D	A	D	D	A	D	B	B
Benzoic Acid	C	D	C	A	C	D	B	D	A	D
Benzoyl Chloride	D	D	D	A	E	D	B	D	A	E
Benzyl Alcohol	D	B	A	A	B	D	B	A	A	D
Benzyl Benzoate	D	D	B	A	E	D	A	B	A	D
Benzyl Chloride	D	D	D	A	D	D	B	D	A	D
Biphenyl (Phenylbenzene)	D	D	D	A	D	D	B	D	D	D
Bleach Solutions	D	D	A	A	B	D	B	A	A	D
Borax	B	A	A	A	B	B	B	A	A	A
Bordeaux Mixture	B	B	A	A	B	B	B	A	A	D
Boric Acid	A	A	A	A	A	A	A	A	A	A
Brine	A	A	A	A	A	A	A	A	D	B
Bromine, Anhydrous	D	D	D	A	D	D	B	D	E	D
Bromine Trifluoride	D	D	D	D	D	D	D	D	E	D
Bromine Water	D	D	B	A	D	D	B	C	A	D
Bromobenzene	D	D	D	A	D	D	A	D	D	D
Bunker Oil	A	D	D	A	B	D	A	D	A	B
Butadiene	D	D	C	A	D	D	B	D	E	D
Butane	A	A	D	A	D	D	A	D	B	A
Butter (Animal Fat)	A	B	A	A	B	D	A	B	A	A
Butyl Acetate	D	D	C	D	D	D	D	C	D	D
Butyl Acetyl Ricinoleate	C	B	A	A	E	D	B	A	A	D
Butyl Acrylate	D	D	D	D	E	D	D	D	D	E
Butyl Alcohol	A	A	B	A	B	A	B	B	A	D
Butyl Amine	C	D	B	D	D	D	D	C	B	D
Butyl Benzoate	D	D	B	A	E	B	A	B	A	E
Butyl Carbitol	D	C	A	A	D	D	D	A	B	E
Butyl Cellosolve	D	C	A	D	E	D	D	A	E	D
Butyl Oleate	D	D	B	A	E	D	B	B	A	E
Butyl Stearate	B	D	C	A	E	D	B	C	A	E
Butylene	B	C	D	A	D	D	B	D	A	D
Butyraldehyde	D	C	B	D	D	D	D	B	D	D
Calcium Acetate (aq)	B	B	A	D	D	D	D	A	A	D
Calcium Bisulfite (aq)	B	A	A	A	A	D	A	D	A	C
Calcium Chloride (aq)	A	A	A	A	A	A	A	A	A	A
Calcium Hydroxide (aq)	A	A	A	A	A	A	A	A	A	B
Calcium Hypochlorite(aq)	B	C	A	A	B	C	B	A	A	D
Calcium Nitrate (aq)	A	A	A	A	B	A	A	A	A	A
Calcium Sulfide (aq)	A	A	A	A	B	B	A	A	A	A
Cane Sugar Liquors	A	A	A	A	A	A	A	A	A	D
Carbamate	C	B	B	A	E	D	A	B	A	D
Carbitol	B	B	B	B	B	B	B	B	A	D
Carbolic Acid (Phenol)	D	C	B	A	D	E	A	B	A	C
Carbon Bisulfide	C	D	D	A	D	D	A	D	A	E

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Compound Selection for Fluids and Chemicals (Continued)

	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
Carbon Dioxide	A	B	B	A	B	B	A	B	A	A
Carbonic Acid	B	A	A	A	A	B	A	A	A	A
Carbon Monoxide	A	B	A	A	A	B	B	A	A	A
Carbon Tetrachloride	C	D	D	A	D	D	C	D	C	D
Castor Oil	A	A	B	A	A	A	A	B	A	A
Cellosolve	D	D	B	C	D	D	D	B	A	D
Cellosolve Acetate	D	D	B	D	D	D	D	B	C	D
Cellulube (Fryquel)	D	D	A	A	E	D	C	A	B	D
China Wood Oil (Tung Oil)	A	B	C	A	D	D	B	C	A	C
Chlorine (dry)	D	C	D	A	D	D	A	D	E	E
Chlorine (wet)	D	C	C	A	D	D	B	C	E	E
Chlorine Dioxide	D	D	C	A	E	D	B	C	E	D
Chlorine Trifluoride	D	D	D	D	D	D	C	D	E	D
Chloroacetic Acid	D	D	A	D	E	D	D	B	E	E
Chloroacetone	D	C	A	D	D	D	D	B	D	D
Chlorobenzene	D	D	D	A	D	D	B	D	C	D
Chlorobromomethane	D	D	B	A	D	D	B	B	E	D
Chlorobutadiene	D	D	D	A	D	D	B	D	C	D
Chlorododecane	D	D	D	A	D	D	A	D	B	D
Chloroform	D	D	D	A	D	D	D	D	D	D
O-Chloronaphthalene	D	D	D	A	D	D	B	D	E	D
1-Chloro 1-Nitro Ethane	D	D	D	D	D	D	D	D	E	D
Chlorosulfonic Acid	D	D	D	D	D	D	D	D	B	D
Chlorotoluene	D	D	D	A	D	D	B	D	D	D
Chlorox (Sodium Hypochlorite NaOCl)	B	A	B	A	B	D	B	B	A	D
Chrome Plating Solutions	D	D	B	A	B	D	B	B	A	D
Chromic Acid	D	C	C	A	C	D	C	C	E	E
Citric Acid	A	A	A	A	A	A	A	A	A	A
Coal Tar (Creosote)	A	B	D	A	D	D	A	D	E	C
Cobalt Chloride (aq)	A	A	A	A	B	A	A	A	A	E
Coconut Oil	A	B	C	A	A	D	A	C	A	C
Cod Liver Oil	A	B	A	A	B	D	A	A	A	A
Coke Oven Gas	D	D	D	A	B	D	B	D	A	D
Copper Acetate (aq)	B	B	A	D	D	D	D	A	D	D
Copper Chloride (aq)	A	B	A	A	A	A	A	A	A	A
Copper Cyanide (aq)	A	A	A	A	A	A	A	A	B	A
Copper Sulfate (aq)	A	A	A	A	A	B	A	B	A	E
Corn Oil	A	C	C	A	A	D	A	C	A	A
Cottonseed Oil	A	B	B	A	A	D	A	C	A	A
Creosote (coal tar)	A	B	D	A	D	D	A	D	A	C
Cresol	D	C	D	A	D	D	B	D	A	E
Cresylic Acid	D	C	D	A	D	D	B	D	A	D
Cumene	D	D	D	A	D	D	B	D	C	D
Cyclohexane	A	C	D	A	D	D	B	D	B	A
Cyclohexanol	C	A	C	A	D	D	A	D	A	E
Cyclohexanone	D	D	B	D	D	D	D	B	C	D
P-Cymene	D	D	D	A	D	D	B	D	C	D
Decalin	D	D	D	A	D	D	A	D	B	E
Decane	A	D	D	A	B	D	A	D	B	B
Denatured Alcohol	A	A	A	A	A	A	A	A	A	D
Detergent Solutions	A	B	A	A	A	B	A	A	A	D
Developing Fluids	A	A	B	A	A	B	A	A	A	E
Diacetone	D	D	A	D	D	D	D	A	C	D
Diacetone Alcohol	D	B	A	D	B	D	D	A	C	D

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	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
Dibenzyl Ether	D	C	B	D	E	D	E	B	D	B
Dibenzyl Sebecate	D	D	B	B	C	D	C	B	A	B
Dibromoethyl benzene (Alkazene)	D	D	D	B	D	D	B	D	D	D
Dibutyl Amine	D	D	C	D	C	D	D	D	A	D
Dibutyl Ether	D	C	C	C	D	D	C	C	D	B
Dibutyl Phthalate	D	D	B	C	B	D	C	C	B	C
Dibutyl Sebecate	D	D	B	B	B	D	B	B	B	D
O-Dichlorobenzene	D	D	D	A	D	D	B	D	D	D
Dichloro-Isopropyl Ether	D	D	C	C	D	D	C	D	D	B
Dicyclohexylamine	C	D	D	D	E	D	D	D	B	D
Diesel Oil	A	C	D	A	D	D	A	D	A	C
Diethylamine	B	B	B	D	B	B	D	B	B	C
Diethyl Benzene	D	D	D	A	D	D	C	D	E	E
Diethyl Ether	D	C	D	D	D	D	C	D	D	A
Diethylene Glycol	A	A	A	A	B	A	A	A	A	D
Diethyl Sebecate	B	D	B	B	B	D	B	B	B	D
Diisobutylene	B	D	D	A	D	D	C	D	B	D
Diisopropyl Benzene	D	D	D	A	E	D	B	D	E	E
Diisopropyl Ketone	D	D	A	D	D	D	D	A	D	D
Diisopropylidene Acetone	D	D	C	D	D	D	D	C	E	E
Dimethyl Aniline (Xylidine)	C	C	B	D	D	C	D	C	E	E
Dimethyl Ether (Methyl Ether)	A	C	D	A	A	D	A	D	E	E
Dimethyl Formamide	B	C	B	D	B	D	D	B	B	D
Dimethyl Phthalate	D	D	B	B	E	D	B	B	B	E
Dinitrotoluene	D	D	D	D	D	D	D	D	D	D
Dioctyl Phthalate	C	D	B	B	C	D	B	B	B	D
Dioctyl Sebecate	D	D	B	B	C	D	C	B	B	B
Dioxane	D	D	B	D	D	D	C	B	D	D
Dioxolane	D	D	B	D	D	D	D	C	D	D
Dipentene	A	D	D	A	D	D	C	D	C	D
Diphenyl (Phenylbenzene)	D	D	D	A	D	D	B	D	D	D
Diphenyl Oxides	D	D	D	A	C	D	B	D	B	D
Dowtherm Oil	D	D	D	A	C	D	B	D	E	E
Dry Cleaning Fluids	C	D	D	A	D	D	B	D	C	D
Epichlorohydrin	D	D	B	D	D	D	D	B	D	D
Ethane	A	B	D	A	D	D	B	D	A	C
Ethanolamine	B	B	B	D	B	B	D	B	A	C
Ethyl Acetate	D	C	B	D	B	D	D	B	D	D
Ethyl Acetoacetate	D	C	B	D	B	C	D	B	D	D
Ethyl Acrylate	D	D	B	D	B	D	D	B	D	D
Ethyl Alcohol	A	A	A	C	A	A	A	A	A	D
Ethyl Benzene	D	D	D	A	D	D	A	D	D	D
Ethyl Benzoate	D	D	A	A	D	A	A	A	C	D
Ethyl Cellosolve	D	D	B	D	D	D	D	D	A	D
Ethyl Cellulose	B	B	B	D	C	B	D	B	A	B
Ethyl Chloride	A	D	C	A	D	D	A	D	B	B
Ethyl Chlorocarbonate	D	D	B	A	D	D	B	C	B	D
Ethyl Chloroformate	D	D	B	D	D	D	D	C	B	D
Ethyl Ether	C	C	C	D	D	D	C	C	D	D
Ethyl Formate	D	B	B	A	E	D	A	B	A	D
Ethyl Mercaptan	D	C	C	B	C	D	E	D	B	E
Ethyl Oxalate	D	C	A	A	D	A	B	A	E	E
Ethyl Pentachlorobenzene	D	D	D	A	D	D	B	D	D	D
Ethyl Silicate	A	A	A	A	E	B	A	A	A	E

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Compound Selection for Fluids and Chemicals (Continued)

	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
Ethylene	A	C	B	A	E	C	A	B	E	E
Ethylene Chloride	D	D	C	B	D	D	C	C	A	D
Ethylene Chlorohydrin	D	B	B	A	C	B	B	B	A	D
Ethylene Diamine	A	A	A	D	A	B	D	A	A	D
Ethylene Dichloride	D	D	C	A	D	D	C	C	E	D
Ethylene Glycol	A	A	A	A	A	A	A	A	A	B
Ethylene Oxide	D	D	C	D	D	D	D	C	D	D
Ethylene Trichloride	D	D	C	A	D	D	C	C	E	D
Fatty Acids	B	B	C	A	C	D	E	C	A	E
Ferric Chloride (aq)	A	A	A	A	B	A	A	A	A	A
Ferric Nitrate (aq)	A	A	A	A	C	A	A	A	A	A
Ferric Sulfate (aq)	A	A	A	A	B	A	A	A	A	E
Fish Oil	A	D	D	A	A	D	A	D	E	E
Fluorinated Cyclic Ethers	E	D	A	E	E	D	E	A	E	E
Fluorine (liquid)	D	D	D	E	D	D	E	D	E	E
Fluorobenzene	D	D	D	A	D	D	B	D	E	E
Fluoroboric Acid	A	A	A	E	E	A	E	A	E	E
Fluorocarbon Oils	E	B	A	E	E	B	E	A	E	E
Fluorolube	A	B	A	B	A	C	B	A	B	E
Fluorosilicic Acid	A	B	B	A	D	C	D	B	E	E
Formaldehyde (RT)	C	B	A	D	B	B	D	A	B	D
Formic Acid	B	A	A	C	B	A	C	A	E	E
Freon 11	B	C	D	A	D	D	B	D	D	E
Freon 12	A	A	B	B	D	A	C	B	D	A
Freon 13	A	A	A	A	D	A	D	A	D	E
Freon 21	D	D	D	D	D	D	E	D	D	E
Freon 22	D	A	A	D	D	A	D	A	D	D
Freon 31	D	B	A	D	E	B	E	A	D	E
Freon 32	A	A	A	D	E	A	E	A	D	E
Freon 112	B	C	D	A	D	C	E	D	D	E
Freon 113	A	A	C	B	D	B	D	D	D	A
Freon 114	A	A	A	B	D	A	B	A	D	E
Freon 115	A	A	A	B	E	A	E	A	D	E
Freon 142b	A	A	B	D	E	B	E	A	D	E
Freon 152a	A	A	A	D	E	A	E	A	D	E
Freon 218	A	A	A	A	E	A	E	A	D	E
Freon C316	A	A	A	E	E	A	E	A	D	E
Freon C318	A	A	A	B	E	A	E	A	D	E
Freon 13B1	A	A	A	A	D	A	E	A	D	E
Freon 114B2	B	B	D	B	D	C	E	D	D	E
Freon 502	B	A	A	B	E	A	E	A	D	E
Freon TF	A	A	D	B	D	C	E	D	D	A
Freon T-WD602	B	B	B	A	D	C	E	B	D	E
Freon TMC	B	C	C	A	C	D	E	C	D	E
Freon T-P35	A	A	A	A	A	A	E	A	E	E
Freon TA	A	B	B	C	C	C	E	B	E	E
Freon TC	A	A	B	A	D	C	E	B	E	E
Freon MF	A	C	D	B	D	D	E	D	D	C
Freon BF	B	C	D	A	D	D	E	D	D	E
Fuel Oil	A	B	D	A	D	D	A	D	A	B
Fumaric Acid	A	B	B	A	B	C	A	B	A	E
Furan, Furfuran	D	D	C	E	E	D	E	D	E	E
Furfural	D	C	B	D	D	D	E	B	E	C
Fyrquel (Cellulube)	D	D	A	A	E	D	C	A	E	D

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Gallic Acid	B	B	B	A	E	B	A	B	A	D
Gasoline	B	C	D	A	D	D	A	D	C	B
Gelatin	A	A	A	A	A	A	A	A	A	D
Glauber's Salt (aq)	D	B	B	A	E	D	A	B	A	E
Glucose	A	A	A	A	A	A	A	A	A	D
Glue	A	A	A	A	A	B	A	B	E	E
Glycerin	A	A	A	A	A	A	A	A	A	D
Glycols	A	A	A	A	A	A	A	A	A	D
Green Sulfate Liquor	B	B	A	A	A	B	B	A	A	D
Halowax Oil	D	D	D	A	D	D	A	D	A	E
N-Hexaldehyde	D	A	A	D	B	D	D	B	D	B
Hexane	A	B	D	A	D	D	A	D	B	B
N-Hexene-1	B	B	D	A	D	D	A	D	B	B
Hexyl Alcohol	A	B	C	A	B	B	B	C	A	D
Hydrazine	B	B	A	D	C	A	D	A	E	D
Hydraulic Oil(Petroleum)	A	B	D	A	C	D	A	D	A	A
Hydrobromic Acid	D	D	A	A	D	D	C	A	A	D
Hydrobromic Acid 40%	D	B	A	A	D	D	C	A	A	D
Hydrochloric Acid (cold) 37%	C	B	A	A	C	B	B	A	E	D
Hydrochloric Acid (hot) 37%	D	D	C	B	D	D	C	C	E	D
Hydrocyanic Acid	B	B	A	A	C	B	B	A	A	E
Hydrofluoric Acid (conc.) cold	D	D	C	A	D	D	D	C	A	E
Hydrofluoric Acid (conc.) hot	D	D	D	C	D	D	D	D	C	E
Hydrofluoric Acid -Anhydrous	D	D	C	D	D	D	D	C	D	E
Hydrofluosilicic Acid	B	B	B	A	D	C	D	B	A	E
Hydrogen Gas	A	A	A	A	C	A	C	A	A	A
Hydrogen Peroxide (90%)	D	D	B	B	B	D	B	C	A	A
Hydrogen Sulfide (wet) cold	D	B	A	D	C	D	C	A	A	E
Hydrogen Sulfide (wet) hot	D	C	A	D	C	D	C	A	B	E
Hydroquinone	C	D	B	B	E	D	B	B	E	E
Hypochlorous Acid	D	D	B	A	E	D	E	B	E	E
Iodine Pentafluoride	D	D	D	D	D	D	D	D	D	D
Iodoform	E	D	D	E	E	D	E	D	E	E
Isobutyl Alcohol	B	A	A	A	A	B	B	A	A	D
Isooctane	A	B	D	A	D	D	A	D	B	B
Isophorone	D	D	B	D	D	D	D	C	C	D
Isopropyl Acetate	D	D	B	D	D	D	D	B	D	D
Isopropyl Alcohol	B	B	A	A	A	B	B	A	A	D
Isopropyl Chloride	D	D	D	A	D	D	B	D	E	D
Isopropyl Ether	B	C	D	D	D	D	C	D	D	B
Kerosene	A	B	D	A	D	D	A	D	A	A
Lacquers	D	D	D	D	D	D	D	D	D	D
Lacquer Solvents	D	D	D	D	D	D	D	D	D	D
Lactic Acid (cold)	A	A	A	A	A	A	A	A	A	E
Lactic Acid (hot)	D	D	D	A	B	D	B	D	A	E
Lard	A	B	B	A	B	D	A	B	A	A
Lavender Oil	B	D	D	A	D	D	B	D	A	E
Lead Acetate (aq)	B	B	A	D	D	D	D	A	D	D
Lead Nitrite (aq)	A	A	A	E	B	A	A	A	E	E
Lead Sulfamate (aq)	B	A	A	A	B	B	A	A	A	E
Ligroin (Benzine) (Nitrobenzine)	A	B	D	A	D	D	A	D	B	B
Lime Bleach	A	B	A	A	B	B	A	A	A	E
Lime Sulfur	D	A	A	A	A	D	A	A	A	E
Lindol (Hydraulic fluid)	D	D	A	B	C	D	C	A	A	D

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Linoleic Acid	B	D	D	B	B	D	E	D	A	E
Linseed Oil	A	B	C	A	A	D	A	C	A	B
Liquefied Petroleum Gas	A	B	D	A	C	D	C	D	C	A
Lubricating Oils(petroleum)	A	B	D	A	D	D	A	D	A	B
Lye	B	B	A	B	B	B	A	A	A	D
Magnesium Chloride (aq)	A	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide (aq)	B	A	A	A	E	B	E	A	A	D
Magnesium Sulfate (aq)	A	A	A	A	A	B	A	A	A	E
Maleic Acid	D	C	B	A	E	C	E	B	A	E
Maleic Anhydride	D	C	B	D	E	B	E	B	A	E
Malic Acid	A	C	B	A	B	C	A	B	A	E
Mercury Chloride (aq)	A	A	A	A	E	A	E	A	A	E
Mercury	A	A	A	A	E	A	E	A	A	E
Mesityl Oxide	D	D	B	D	D	D	D	B	C	D
Methane	A	B	D	B	D	D	B	D	B	C
Methyl Acetate	D	B	A	D	D	C	D	A	D	D
Methyl Acrylate	D	B	B	D	D	D	D	B	E	D
Methylacrylic Acid	D	B	B	D	D	D	D	B	E	D
Methyl Alcohol	A	A	A	D	A	A	A	A	A	D
Methyl Bromide	B	D	D	A	E	D	A	D	A	E
Methyl Butyl Ketone	D	D	A	D	C	D	D	A	C	D
Methyl Cellosolve	C	C	B	D	D	D	D	B	E	D
Methyl Chloride	D	D	C	B	D	D	B	C	E	D
Methyl Cyclopentane	D	D	D	B	D	D	B	D	B	D
Methylene Chloride	D	D	C	B	D	D	B	D	E	D
Methyl Ether	A	C	D	A	A	D	A	D	C	E
Methyl Ethyl Ketone	D	C	A	D	D	D	D	B	D	D
Methyl Formate	D	B	B	E	E	D	E	B	E	E
Methyl Isobutyl Ketone	D	D	B	D	D	D	D	C	D	D
Methyl Methacrylate	D	D	C	D	D	D	D	D	E	E
Methyl Oleate	D	D	B	B	E	D	B	B	A	E
Methyl Salicylate	D	D	B	E	E	C	E	B	E	E
Milk	A	A	A	A	A	A	A	A	A	D
Mineral Oil	A	B	C	A	B	D	A	C	A	A
Monochlorobenzene	D	D	D	A	D	D	B	D	D	D
Monomethyl Aniline	D	D	B	B	E	D	E	B	E	D
Monoethanol Amine	D	D	A	D	B	B	D	B	A	D
Monomethyl Ether	A	C	D	A	A	D	A	D	E	E
Monovinyl Acetylene	A	B	A	A	B	B	E	B	A	E
Mustard Gas	E	A	A	E	A	B	E	A	E	E
Naphtha	B	C	D	A	D	D	B	D	B	B
Naphthalene	D	D	D	A	D	D	A	D	C	B
Naphthalenic Acid	B	D	D	A	D	D	A	D	B	E
Natural Gas	A	A	D	A	A	A	C	D	A	B
Neats Foot Oil	A	D	B	A	B	D	A	B	A	A
Neville Acid	D	D	B	A	D	D	B	B	A	E
Nickel Acetate (aq)	B	B	A	D	D	D	D	A	D	D
Nickel Chloride (aq)	A	A	A	A	A	A	A	A	A	C
Nickel Sulfate (aq)	A	A	A	A	A	B	A	A	A	C
Niter Cake	A	A	A	A	A	A	A	A	A	A
Nitric Acid (conc.)	D	D	D	C	D	D	C	D	B	D
Nitric Acid (dilute)	D	B	B	A	B	D	B	B	E	D
Nitric Acid - Red Fuming	D	D	D	D	D	D	D	D	C	E
Nitrobenzene	D	D	A	B	D	D	D	A	E	D

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	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
Nitrobenzene (ligroin)	A	B	D	A	D	D	A	D	E	D
Nitroethane	D	C	B	D	D	B	D	B	E	D
Nitrogen	A	A	A	A	A	A	A	A	A	A
Nitrogen Tetroxide	D	D	C	D	D	D	D	C	E	D
Nitromethane	D	B	B	D	D	B	D	B	E	D
Octachlorotoluene	D	D	D	A	D	D	B	D	C	D
Octadecane	A	B	D	A	D	D	A	D	B	A
N-Octane	B	B	D	A	D	D	B	D	B	D
Octyl Alcohol	B	A	C	A	B	B	B	C	A	D
Oleic Acid	C	C	D	B	D	D	E	D	A	B
Oleum Spirits	B	C	D	A	D	D	B	D	A	C
Olive Oil	A	B	B	A	C	D	A	B	A	A
O-Dichlorobenzene	D	D	D	A	D	D	B	D	D	D
Oxalic Acid	B	B	A	A	B	B	A	A	A	E
Oxygen - Cold	B	A	A	A	A	B	A	A	A	A
Oxygen - (200-400°F)	D	D	C	B	B	D	D	B	E	D
Ozone	D	C	A	A	A	D	B	D	A	A
Paint Thinner, Duco	D	D	D	B	D	D	B	D	B	D
Palmitic Acid	A	B	B	A	D	B	A	B	A	A
Peanut Oil	A	C	C	A	A	D	A	C	A	B
Perchloric Acid	D	B	B	A	D	D	A	B	A	D
Perchloroethylene	B	D	D	A	D	D	B	D	E	D
Petroleum - below 250°F	A	B	D	A	B	D	B	D	A	B
Petroleum - above 250°F	D	B	D	B	D	D	D	D	B	D
Phenol (Carbolic Acid)	D	C	B	A	D	E	A	B	E	D
Phenylbenzene (Biphenyl)	D	D	D	A	D	D	B	D	D	D
Phenyl Ethyl Ether	D	D	D	D	D	D	D	D	D	D
Phenyl Hydrazine	D	D	B	A	E	B	E	B	A	E
Phorone(Diisopropylidene Acetone)	D	D	C	D	D	D	D	C	D	D
Phosphoric Acid - 20%	B	B	A	A	B	B	B	B	A	D
Phosphoric Acid - 45%	D	B	A	A	C	C	B	B	A	D
Phosphorus Trichloride	D	D	A	A	E	D	A	A	A	E
Pickling Solution	D	D	C	B	D	D	D	C	B	D
Picric Acid	B	A	B	A	D	B	B	B	A	E
Pinene	B	C	D	A	D	D	B	D	A	B
Pine Oil	A	D	D	A	D	D	A	D	A	E
Piperidine	D	D	A	D	D	D	D	D	E	D
Plating Solution -Chrome	E	D	A	A	D	D	E	A	E	E
Plating Solution - Others	A	D	A	A	D	D	E	A	E	E
Polyvinyl Acetate Emulsion	E	B	A	E	E	D	E	A	E	E
Potassium Acetate (aq)	B	B	A	D	D	D	D	A	E	D
Potassium Chloride (aq)	A	A	A	A	A	A	A	A	A	A
Potassium Cupro Cyanide (aq)	A	A	A	A	A	A	A	A	A	A
Potassium Cyanide (aq)	A	A	A	A	A	A	A	A	A	A
Potassium Dichromate(aq)	A	A	A	A	A	B	A	A	A	B
Potassium Hydroxide (aq)	B	B	A	D	C	B	C	A	A	D
Potassium Nitrate (aq)	A	A	A	A	A	A	A	A	A	A
Potassium Sulfate (aq)	A	A	A	A	A	A	A	A	A	A
Producer Gas	A	B	D	A	B	D	B	D	A	A
Propane	A	B	D	A	D	D	B	D	A	C
i-Propyl Acetate	D	D	B	D	D	D	D	B	D	D
n-Propyl Acetate	D	D	B	D	D	D	D	B	D	E
Propyl Acetone (Methyl Butyl Ketone)	D	D	A	D	C	D	D	A	C	D
Propyl Alcohol	A	A	A	A	A	A	A	A	A	D

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Compound Selection for Fluids and Chemicals (Continued)

	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
Propyl Nitrate	D	D	B	D	D	D	D	B	E	E
Propylene	D	D	D	A	D	D	B	D	A	D
Propylene Oxide	D	D	B	D	D	D	D	B	D	D
Pydraul, 10E, 29 ELT	D	D	A	A	D	D	D	A	A	D
Pydraul, 30E, 50E, 65E, 90E	D	D	A	A	A	D	A	A	A	D
Pydraul, 115E	D	D	A	A	D	D	C	A	A	D
Pydraul, 230E, 312C, 540C	D	D	D	A	D	D	D	D	A	D
Pyranol, Transformer Oil	A	B	D	A	D	D	A	D	A	B
Pyridine	D	D	B	D	D	D	D	B	E	E
Pyroligeneous Acid	D	B	B	D	E	D	D	B	E	D
Pyrrole	D	D	C	D	B	C	C	D	E	E
Radiation	C	B	B	D	C	C	D	D	A	D
Rapeseed Oil	B	B	A	A	D	D	A	A	A	B
Red Oil (MIL-H-5606)	A	B	D	A	D	D	A	D	A	A
RJ-1 (MIL-F-25558 B)	A	B	D	A	D	D	A	D	A	A
RP-1 (MIL-F-25576 C)	A	B	D	A	D	D	A	D	A	A
Sal Ammoniac	A	A	A	A	B	A	A	A	A	A
Salicylic Acid	B	A	A	A	E	B	A	A	A	E
Salt Water	A	B	A	A	A	A	A	A	A	B
Sewage	A	B	B	A	B	B	A	B	A	D
Silicate Esters	B	A	D	A	D	D	A	D	A	A
Silicone Greases	A	A	A	A	C	A	A	A	A	A
Silicone Oils	A	A	A	A	C	A	A	A	A	A
Silver Nitrate	B	A	A	A	A	A	A	A	A	A
Skydrol 500	D	D	A	D	C	D	C	B	B	D
Skydrol 7000	D	D	A	B	C	D	C	A	A	E
Soap Solutions	A	B	A	A	A	A	A	A	A	D
Soda Ash	A	A	A	A	A	A	A	A	A	E
Sodium Acetate (aq)	B	B	A	D	D	D	D	A	D	C
Sodium Bicarbonate (aq) (Baking Soda)	A	A	A	A	A	A	A	A	A	E
Sodium Bisulfite (aq)	A	A	A	A	A	B	A	A	A	E
Sodium Borate (aq)	A	A	A	A	A	A	A	A	A	E
Sodium Chloride (aq)	A	A	A	A	A	A	A	A	A	A
Sodium Cyanide (aq)	A	A	A	A	A	A	A	A	A	E
Sodium Hydroxide (aq)	B	A	A	B	B	A	B	A	A	B
Sodium Hypochlorite (aq) (Chlorox)	B	A	B	A	B	D	B	B	A	D
Sodium Metaphosphate(aq)	A	B	A	A	E	A	A	A	A	E
Sodium Nitrate (aq)	B	B	A	E	D	A	E	A	A	E
Sodium Perborate (aq)	B	B	A	A	B	B	A	A	A	E
Sodium Peroxide (aq)	B	B	A	A	D	B	A	A	A	D
Sodium Phosphate (aq)	A	B	A	A	D	A	E	A	A	A
Sodium Silicate (aq)	A	A	A	A	E	A	E	A	A	E
Sodium Sulfate (aq)	A	A	A	A	A	B	A	A	A	A
Sodium Thiosulfate (aq)	B	A	A	A	A	B	A	A	A	A
Soybean Oil	A	B	C	A	A	D	A	C	A	E
Stannic Chloride (aq)	A	B	A	A	B	A	A	A	A	E
Stannous Chloride (aq)	A	A	A	A	B	A	A	A	A	E
Steam, under 300°F	D	C	A	D	C	D	D	B	A	D
Steam, over 300°F	D	D	C	D	D	D	D	D	A	D
Stearic Acid	B	B	B	E	B	B	E	B	A	E
Stoddard Solvent	A	B	D	A	D	D	A	D	B	A
Styrene	D	D	D	B	D	D	C	D	E	E
Sucrose Solution	A	B	A	A	A	A	A	A	A	D
Sulfite Liquors	B	B	B	A	D	B	B	B	E	E

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	NITRILE (BUNA-N)	NEOPRENE	ETHYLENE PROPYLENE (EPR)	FLUORO-CARBON	SILICONE	STYRENE BUTADIENE (SBR)	FLUORO-SILICONE	BUTYL	AFLAS®	URETHANE
Sulfur	D	A	A	A	C	D	A	A	A	E
Sulfur Chloride (aq)	C	C	D	A	C	D	A	D	A	E
Sulfur Dioxide (Dry)	D	D	A	A	B	B	B	B	E	E
Sulfur Dioxide (Wet)	D	B	A	A	B	D	B	A	E	E
Sulfur Dioxide (liquified under pressure)	D	D	A	A	B	D	B	B	E	E
Sulfur Hexafluoride	B	A	A	A	B	D	B	A	C	E
Sulfur Trioxide	D	D	B	A	B	B	B	B	A	E
Sulfuric Acid (dilute)	C	B	B	A	D	C	C	B	A	D
Sulfuric Acid (conc.)	D	D	C	B	D	D	D	D	A	D
Sulfuric Acid (20% Oleum)	D	D	D	A	D	D	D	D	E	D
Sulfurous Acid	B	B	B	A	D	B	E	B	A	C
Tannic Acid	A	A	A	A	B	B	E	A	A	E
Tar, Bituminous	B	C	C	A	B	D	A	C	A	E
Tartaric Acid	A	B	B	A	A	D	A	B	A	A
Terpineol	B	D	C	A	E	D	A	C	A	B
Tertiary Butyl Alcohol	B	B	B	A	B	B	B	B	A	D
Tertiary Butyl Catechol	D	B	B	A	E	B	A	B	A	D
Tertiary Butyl Mercaptan	D	D	D	A	D	D	E	D	E	D
Tetrabromoethane	D	D	D	A	D	D	B	D	E	E
Tetrabromomethane	D	D	D	A	D	D	B	D	E	E
Tetrabutyl Titanate	B	B	A	A	E	B	A	B	A	E
Tetrachloroethylene	D	D	D	A	D	D	B	D	E	D
Tetraethyl Lead	B	B	D	A	E	D	B	D	E	E
Tetrahydrofuran	D	D	B	D	D	D	D	C	D	C
Tetralin	D	D	D	A	D	D	A	D	E	E
Thionyl Chloride	D	D	C	B	E	D	E	D	E	E
Titanium Tetrachloride	B	D	D	A	D	D	B	D	E	D
Toluene	D	D	D	A	D	D	B	D	C	D
Toluene Diisocyanate	D	D	B	D	D	D	D	B	D	E
Transformer Oil	A	B	D	A	B	D	A	D	A	A
Transmission Fluid Type A	A	B	D	A	B	D	A	D	A	A
Triacetin	B	B	A	D	E	B	D	A	E	D
Triaryl Phosphate	D	D	A	A	C	D	B	A	A	D
Tributoxy EthyL Phosphate	D	D	A	A	E	B	B	A	A	D
Tributyl Mercaptan	D	D	D	A	D	D	C	D	E	E
Tributyl Phosphate	D	D	B	D	D	D	D	B	E	D
Trichloroacetic Acid	B	D	B	C	E	B	D	B	C	D
Trichloroethane	D	D	D	A	D	D	B	D	E	D
Trichloroethylene	D	D	D	A	D	D	B	D	E	D
Tricresyl Phosphate	D	C	A	A	C	A	B	A	A	D
Triethanol Amine	B	A	A	D	E	B	D	B	A	D
Triethyl Aluminum	D	D	C	B	E	D	E	C	E	E
Triethyl Borane	D	D	C	A	E	D	E	C	E	E
Trinitrotoluene	D	B	D	B	E	D	B	D	E	E
Trioctyl Phosphate	D	D	A	B	C	D	B	A	A	D
Tung Oil (China Wood Oil)	A	B	C	A	D	D	B	C	A	C
Turbine Oil	B	D	D	A	D	D	B	D	A	A
Turpentine	A	D	D	A	D	D	B	D	A	D
Unsymmetrical Dimethyl Hydrazine (UDMH)	B	B	A	D	D	A	D	A	E	E
Varnish	B	D	D	A	D	D	B	D	E	C
Vegetable Oils	A	C	C	A	B	D	A	C	A	E
Versilube F-50	A	A	A	A	C	A	A	A	A	A
Vinegar	B	B	A	A	A	B	C	A	A	D

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Vinyl Chloride	D	D	D	A	E	D	E	D	E	E
Wagner 21B Brake Fluid	C	B	A	D	C	A	D	B	A	E
Water	A	A	A	A	A	A	A	A	A	D
Whiskey, Wines	A	A	A	A	A	A	A	A	A	D
White Pine Oil	B	D	D	A	D	D	A	D	A	E
White Oil	A	B	D	A	D	D	A	D	A	A
Wood Oil	A	B	D	A	D	D	B	D	A	C
Xylene	D	D	D	A	D	D	A	D	B	D
Xylidine (Di-methyl Aniline)	C	C	B	D	D	C	D	C	E	E
Zeolites	A	A	A	A	E	A	A	A	A	E
Zinc Acetate (aq)	B	B	A	D	D	D	D	A	D	D
Zinc Chloride (aq)	A	A	A	A	A	A	A	A	A	E
Zinc Sulfate (aq)	A	A	A	A	A	B	A	A	A	E

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Age Controls

Because of short shelf life of very early Neoprene and/or Neoprene/Nitrile blends, the Government imposed an Age Control Program known as ANA Bulletin 438C on Military O-Rings. Its step-by-step schedule allowed the manufacturer (or his agent) four quarters beyond the part curing date to deliver it to the component builder. They had two more quarters to install the oldest part in their equipment. These components then had a maximum of 12 quarters (3 years) until delivery of the aircraft to the Government. This applied only to Nitrile Compounds. Those of other polymers were not covered.

As a result of long-term evaluations of stored O-Rings by a number of Air Force, Army, and Navy laboratories and a long-term study by the O-Ring industries laboratories and investigations of long stored and long lost crashed aircraft hydraulic systems, it is concluded that modern Nitrile Compounds are safe to use 5 to 10 years (varying on who makes the conclusion) after the date of the manufacture. Further information may be found in Air Force Technical Report AFML-TR-67-235, if desired.

MIL-STD-1523A dated Feb. 1, 1984 replaced MIL-STD-1523 and now allows the manufacturer of the O-Ring or his agent a full 40 quarters (10 years) to deliver his product to the procuring activity or contracting officer. MIL-STD-1523A does not control the age beyond this point for O-Rings although it is still very restrictive for hose which is also covered. Military Material specifications covered by MIL-STD-1523 include: MIL-P-5315, MIL-P-5510, MIL-P-5516, MIL-S-6855Cl.I, MIL-R-7362, MIL-P-25732, MIL-P-83461.

Age Resistance of Elastomers

Although when properly stored, elastomers have been known to shelf age for very long periods of time, the following chart indicates the generally accepted age resistance for various elastomers (from MIL-HDBK-695):

5 to 10 years

Nitrile
SBR
Urethane (Polyester)
Hypalon
Butyl
Neoprene
Ethylene Propylene
Epichlorohydrin
Urethane (Polyether)
HSN- Not listed in MIL-HDBK-695
(Data to date indicates shelf life of 5 to 10 years)

Up to 20 Years

Silicone
Fluorosilicone
Fluorocarbon
Polyacrylate
Polysulfide
Aflas® - Not listed in MIL-HDBK-695
(Data to date indicates shelf life of up to 20 years)

Suggested proper storage conditions

O-Rings should be stored in clean, dry, containers away from ozone, contaminates, sunlight, radiation at a temperature not to exceed 120°F.

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (001....044)

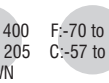
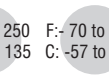
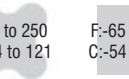
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-001	-001	1/32	3/32	1/32	0.029	0.004	0.040	0.003	0.000	0.740	0.100	1.020	0.080	2-001
2-002	-002	3/64	9/64	3/64	0.042	0.004	0.050	0.003	0.001	1.070	0.100	1.270	0.080	2-002
2-003	-003	1/16	3/16	1/16	0.056	0.004	0.060	0.003	0.001	1.420	0.100	1.520	0.080	2-003
2-004	-004	5/64	13/64	1/16	0.070	0.005	0.070	0.003	0.002	1.780	0.130	1.780	0.080	2-004
2-005	-005	3/32	7/32	1/16	0.101	0.005	0.070	0.003	0.002	2.570	0.130	1.780	0.080	2-005
2-006	-006	1/8	1/4	1/16	0.114	0.005	0.070	0.003	0.002	2.900	0.130	1.780	0.080	2-006
2-007	-007	5/32	9/32	1/16	0.145	0.005	0.070	0.003	0.003	3.680	0.130	1.780	0.080	2-007
2-008	-008	3/16	5/16	1/16	0.176	0.005	0.070	0.003	0.003	4.470	0.130	1.780	0.080	2-008
2-009	-009	7/32	11/32	1/16	0.208	0.005	0.070	0.003	0.003	5.280	0.130	1.780	0.080	2-009
2-010	-010	1/4	3/8	1/16	0.239	0.005	0.070	0.003	0.004	6.070	0.130	1.780	0.080	2-010
2-011	-011	5/16	7/16	1/16	0.301	0.005	0.070	0.003	0.005	7.650	0.130	1.780	0.080	2-011
2-012	-012	3/8	1/2	1/16	0.364	0.005	0.070	0.003	0.005	9.250	0.130	1.780	0.080	2-012
2-013	-013	7/16	9/16	1/16	0.426	0.005	0.070	0.003	0.006	10.820	0.130	1.780	0.080	2-013
2-014	-014	1/2	5/8	1/16	0.489	0.005	0.070	0.003	0.007	12.420	0.130	1.780	0.080	2-014
2-015	-015	9/16	11/16	1/16	0.551	0.007	0.070	0.003	0.008	14.000	0.180	1.780	0.080	2-015
2-016	-016	5/8	3/4	1/16	0.614	0.009	0.070	0.003	0.008	15.600	0.230	1.780	0.080	2-016
2-017	-017	11/16	13/16	1/16	0.676	0.009	0.070	0.003	0.009	17.170	0.230	1.780	0.080	2-017
2-018	-018	3/4	7/8	1/16	0.739	0.009	0.070	0.003	0.010	18.770	0.230	1.780	0.080	2-018
2-019	-019	13/16	15/16	1/16	0.801	0.009	0.070	0.003	0.011	20.350	0.230	1.780	0.080	2-019
2-020	-020	7/8	1	1/16	0.864	0.009	0.070	0.003	0.011	21.950	0.230	1.780	0.080	2-020
2-021	-021	15/16	1 1/16	1/16	0.926	0.009	0.070	0.003	0.012	23.520	0.230	1.780	0.080	2-021
2-022	-022	1	1 1/8	1/16	0.989	0.010	0.070	0.003	0.013	25.120	0.250	1.780	0.080	2-022
2-023	-023	1 1/16	1 3/16	1/16	1.051	0.010	0.070	0.003	0.014	26.700	0.250	1.780	0.080	2-023
2-024	-024	1 1/8	1 1/4	1/16	1.114	0.010	0.070	0.003	0.014	28.300	0.250	1.780	0.080	2-024
2-025	-025	1 3/16	1 5/16	1/16	1.176	0.011	0.070	0.003	0.015	29.870	0.280	1.780	0.080	2-025
2-026	-026	1 1/4	1 3/8	1/16	1.239	0.011	0.070	0.003	0.016	31.470	0.280	1.780	0.080	2-026
2-027	-027	1 5/16	1 7/16	1/16	1.301	0.011	0.070	0.003	0.017	33.050	0.280	1.780	0.080	2-027
2-028	-028	1 3/8	1 1/2	1/16	1.364	0.013	0.070	0.003	0.017	34.650	0.330	1.780	0.080	2-028
2-029	-029	1 1/2	1 5/8	1/16	1.489	0.013	0.070	0.003	0.019	37.820	0.330	1.780	0.080	2-029
2-030	-030	1 5/8	1 3/4	1/16	1.614	0.013	0.070	0.003	0.020	41.000	0.330	1.780	0.080	2-030
2-031	-031	1 3/4	1 7/8	1/16	1.739	0.015	0.070	0.003	0.022	44.170	0.380	1.780	0.080	2-031
2-032	-032	1 7/8	2	1/16	1.864	0.015	0.070	0.003	0.023	47.350	0.380	1.780	0.080	2-032
2-033	-033	2	2 1/8	1/16	1.989	0.018	0.070	0.003	0.025	50.520	0.460	1.780	0.080	2-033
2-034	-034	2 1/8	2 1/4	1/16	2.114	0.018	0.070	0.003	0.026	53.700	0.460	1.780	0.080	2-034
2-035	-035	2 1/4	2 3/8	1/16	2.239	0.018	0.070	0.003	0.028	56.870	0.460	1.780	0.080	2-035
2-036	-036	2 3/8	2 1/2	1/16	2.364	0.018	0.070	0.003	0.029	60.050	0.460	1.780	0.080	2-036
2-037	-037	2 1/2	2 5/8	1/16	2.489	0.018	0.070	0.003	0.031	63.220	0.460	1.780	0.080	2-037
2-038	-038	2 5/8	2 3/4	1/16	2.614	0.020	0.070	0.003	0.032	66.400	0.510	1.780	0.080	2-038
2-039	-039	2 3/4	2 7/8	1/16	2.739	0.020	0.070	0.003	0.034	69.570	0.510	1.780	0.080	2-039
2-040	-040	2 7/8	3	1/16	2.864	0.020	0.070	0.003	0.036	72.750	0.510	1.780	0.080	2-040
2-041	-041	3	3 1/8	1/16	2.989	0.024	0.070	0.003	0.037	75.920	0.610	1.780	0.080	2-041
2-042	-042	3 1/4	3 3/8	1/16	3.239	0.024	0.070	0.003	0.040	82.270	0.610	1.780	0.080	2-042
2-043	-043	3 1/2	3 5/8	1/16	3.489	0.024	0.070	0.003	0.043	88.620	0.610	1.780	0.080	2-043
2-044	-044	3 3/4	3 7/8	1/16	3.739	0.027	0.070	0.003	0.046	94.970	0.690	1.780	0.080	2-044

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (001....044)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-001	0.05	0.16*	0.18	0.24	0.40*	0.40*	0.44*	O/R*	O/R*	0.98*	O/R*
-002	0.05	0.09*	0.18	0.24	0.40*	0.40*	0.44*	2.15*	O/R*	0.98*	O/R*
-003	0.05	0.09	0.18	0.27	0.40*	0.40*	0.44*	2.07*	0.74*	0.98*	O/R*
-004	0.05	0.09	0.18	0.31	0.40*	0.40*	0.44*	2.09*	0.74*	1.30*	O/R*
-005	0.05	0.07	0.18	0.31	0.40*	0.40*	0.44*	2.12*	0.86*	1.30	O/R*
-006	0.03	0.05	0.18	0.35	0.40	0.40*	0.44*	2.04	0.94	1.30	0.52
-007	0.03	0.07	0.18	0.43	0.40	0.40*	0.44	1.97	0.97	1.30	0.66
-008	0.03	0.07	0.18	0.48	0.40	0.40*	0.47*	1.96	1.12	1.30	0.69
-009	0.03	0.07	0.18	0.51	0.40	0.40*	0.52	2.23	1.16	1.30	0.40
-010	0.05	0.07	0.18	0.60	0.40	0.40*	0.52	2.03	1.16	1.30	0.33
-011	0.05	0.07	0.18	0.66	0.40	0.40*	0.55	2.11	1.16	1.30	0.30
-012	0.05	0.07	0.20	0.70	0.40	0.40	0.55	2.06	1.20	1.30	0.26
-013	0.05	0.08	0.22	0.70	0.40	0.40*	0.55	2.41	1.22	1.30	0.23
-014	0.05	0.08	0.22	0.79	0.40	0.40*	0.54	2.36	1.32	1.30	0.19
-015	0.07	0.09	0.26	0.71	0.40	0.40*	0.57	2.83	1.38	1.30*	0.19
-016	0.07	0.09	0.26	0.71	0.40	0.40*	0.58*	2.84	1.73	1.65	0.19
-017	0.08	0.11	0.26	0.71	0.40*	0.40*	0.58	2.95	1.75*	1.65*	0.21
-018	0.08	0.11	0.26	0.71	0.40	0.40*	0.58	3.22	1.77	1.65	0.21
-019	0.09	0.16	0.29	0.71	0.40	0.40*	0.59	3.18	1.78*	1.65	0.22
-020	0.09	0.16	0.30	0.74	0.40	0.40*	0.70	3.50	1.90	1.65	0.24*
-021	0.09	0.17	0.32	0.79	0.41	0.41*	0.72	4.14	2.21	1.65*	0.25
-022	0.09	0.17	0.36	0.79	0.47	0.47*	0.78	4.30	2.21	1.99	0.25
-023	0.11	0.17	0.36	0.79	0.49*	0.49*	0.87	4.58	2.23*	1.99	0.27
-024	0.11	0.19	0.44	0.91	0.50	0.50*	0.90	4.98	2.23	1.99*	0.28
-025	0.16	0.20	0.44	1.01	0.57	0.57*	0.96*	4.93	2.30	2.30*	0.29
-026	0.18	0.21	0.48	1.09	0.71	0.71*	1.01*	5.37	2.87*	2.30*	0.29
-027	0.18	0.21	0.49	1.13	0.70	0.70*	1.07*	5.58	3.14	2.40*	0.30
-028	0.18	0.21	0.54	1.21	0.70	0.70*	1.12*	5.39	3.23	2.49	0.29
-029	0.19	0.27	0.63	1.23	0.72	0.72*	1.24*	5.96*	3.52	2.49	0.29
-030	0.22	0.27	0.66	1.39	0.76	0.76*	1.38	6.43	3.52	2.76	0.47
-031	0.24	0.32	0.75	1.55	0.92*	0.92*	1.52*	6.60*	3.59*	2.70	0.47*
-032	0.27	0.36	0.88	1.92	0.97	0.97*	1.66	7.12	3.68*	2.89	0.52
-033	0.33	0.47	0.95	2.00	1.19*	1.19*	1.89*	8.07*	3.87*	2.13	0.52
-034	0.37	0.48	0.95	2.24	1.22	1.22*	2.01*	8.29*	5.25*	2.21	0.52
-035	0.37	0.48	0.98	2.46	1.26*	1.26*	2.13*	8.49*	5.29	2.28	0.59
-036	0.39	0.52	1.12	2.56	1.35*	1.35*	2.23	8.92*	5.50*	3.93	0.59
-037	0.39	0.53	1.15	2.64	1.40*	1.40*	2.35*	13.17*	5.50*	2.87*	0.59
-038	0.43	0.55	1.19	2.86	1.49*	1.49*	2.37*	14.91*	5.53*	3.61*	0.59
-039	0.45	0.60	1.25	2.90	1.57	1.57*	2.60	15.70*	5.92*	3.23	0.63
-040	0.46	0.61	1.31	3.09	1.60*	1.60*	2.88	17.68*	6.33*	3.31	0.66
-041	0.53	0.69	1.49	3.21	1.75*	1.75*	2.99	18.71*	6.65*	3.38	0.81
-042	0.57	0.75	1.73	3.41	1.96	1.96*	3.08	20.52	8.90	3.53	0.81
-043	0.61	0.81	1.90	3.63	2.14*	2.14*	3.39*	21.70*	9.01*	3.93*	0.85*
-044	0.72	0.92	2.02	3.85	2.43*	2.43*	3.73*	23.57*	9.17*	13.45	0.85*

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NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (045....139)

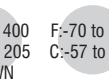
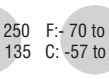
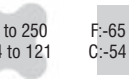
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-045	-045	4	4 1/8	1/16	3.989	0.027	0.070	0.003	0.049	101.320	0.690	1.780	0.080	2-045
2-046	-046	4 1/4	4 3/8	1/16	4.239	0.030	0.070	0.003	0.052	107.670	0.760	1.780	0.080	2-046
2-047	-047	4 1/2	4 5/8	1/16	4.489	0.030	0.070	0.003	0.055	114.020	0.760	1.780	0.080	2-047
2-048	-048	4 3/4	4 7/8	1/16	4.739	0.030	0.070	0.003	0.058	120.370	0.760	1.780	0.080	2-048
2-049	-049	5	5 1/8	1/16	4.989	0.037	0.070	0.003	0.061	126.720	0.940	1.780	0.080	2-049
2-050	-050	5 1/4	5 3/8	1/16	5.239	0.037	0.070	0.003	0.064	133.070	0.940	1.780	0.080	2-050
2-102	-102	1/16	1/4	3/32	0.049	0.005	0.103	0.003	0.004	1.240	0.130	2.620	0.080	2-102
2-103	-103	3/32	9/32	3/32	0.081	0.005	0.103	0.003	0.005	2.060	0.130	2.620	0.080	2-103
2-104	-104	1/8	5/16	3/32	0.112	0.005	0.103	0.003	0.006	2.840	0.130	2.620	0.080	2-104
2-105	-105	5/32	11/32	3/32	0.143	0.005	0.103	0.003	0.006	3.630	0.130	2.620	0.080	2-105
2-106	-106	3/16	3/8	3/32	0.174	0.005	0.103	0.003	0.007	4.420	0.130	2.620	0.080	2-106
2-107	-107	7/32	13/32	3/32	0.206	0.005	0.103	0.003	0.008	5.230	0.130	2.620	0.080	2-107
2-108	-108	1/4	7/16	3/32	0.237	0.005	0.103	0.003	0.009	6.020	0.130	2.620	0.080	2-108
2-109	-109	5/16	1/2	3/32	0.299	0.005	0.103	0.003	0.011	7.590	0.130	2.620	0.080	2-109
2-110	-110	3/8	9/16	3/32	0.362	0.005	0.103	0.003	0.012	9.190	0.130	2.620	0.080	2-110
2-111	-111	7/16	5/8	3/32	0.424	0.005	0.103	0.003	0.014	10.770	0.130	2.620	0.080	2-111
2-112	-112	1/2	11/16	3/32	0.487	0.005	0.103	0.003	0.015	12.370	0.130	2.620	0.080	2-112
2-113	-113	9/16	3/4	3/32	0.549	0.007	0.103	0.003	0.017	13.940	0.180	2.620	0.080	2-113
2-114	-114	5/8	13/16	3/32	0.612	0.009	0.103	0.003	0.019	15.540	0.230	2.620	0.080	2-114
2-115	-115	11/16	7/8	3/32	0.674	0.009	0.103	0.003	0.020	17.120	0.230	2.620	0.080	2-115
2-116	-116	3/4	15/16	3/32	0.737	0.009	0.103	0.003	0.022	18.720	0.230	2.620	0.080	2-116
2-117	-117	13/16	1	3/32	0.799	0.010	0.103	0.003	0.024	20.300	0.250	2.620	0.080	2-117
2-118	-118	7/8	1 1/16	3/32	0.862	0.010	0.103	0.003	0.025	21.890	0.250	2.620	0.080	2-118
2-119	-119	15/16	1 1/8	3/32	0.924	0.010	0.103	0.003	0.027	23.470	0.250	2.620	0.080	2-119
2-120	-120	1	1 3/16	3/32	0.987	0.010	0.103	0.003	0.029	25.070	0.250	2.620	0.080	2-120
2-121	-121	1 1/16	1 1/4	3/32	1.049	0.010	0.103	0.003	0.030	26.640	0.250	2.620	0.080	2-121
2-122	-122	1 1/8	1 5/16	3/32	1.112	0.010	0.103	0.003	0.032	28.240	0.250	2.620	0.080	2-122
2-123	-123	1 3/16	1 3/8	3/32	1.174	0.012	0.103	0.003	0.033	29.820	0.300	2.620	0.080	2-123
2-124	-124	1 1/4	1 7/16	3/32	1.237	0.012	0.103	0.003	0.035	31.420	0.300	2.620	0.080	2-124
2-125	-125	1 5/16	1 1/2	3/32	1.299	0.012	0.103	0.003	0.037	32.990	0.300	2.620	0.080	2-125
2-126	-126	1 3/8	1 9/16	3/32	1.362	0.012	0.103	0.003	0.038	34.590	0.300	2.620	0.080	2-126
2-127	-127	1 7/16	1 5/8	3/32	1.424	0.012	0.103	0.003	0.040	36.170	0.300	2.620	0.080	2-127
2-128	-128	1 1/2	1 11/16	3/32	1.487	0.012	0.103	0.003	0.042	37.770	0.300	2.620	0.080	2-128
2-129	-129	1 9/16	1 3/4	3/32	1.549	0.015	0.103	0.003	0.043	39.340	0.380	2.620	0.080	2-129
2-130	-130	1 5/8	1 13/16	3/32	1.612	0.015	0.103	0.003	0.045	40.940	0.380	2.620	0.080	2-130
2-131	-131	1 11/16	1 7/8	3/32	1.674	0.015	0.103	0.003	0.047	42.520	0.380	2.620	0.080	2-131
2-132	-132	1 3/4	1 15/16	3/32	1.737	0.015	0.103	0.003	0.048	44.120	0.380	2.620	0.080	2-132
2-133	-133	1 13/16	2	3/32	1.799	0.015	0.103	0.003	0.050	45.690	0.380	2.620	0.080	2-133
2-134	-134	1 7/8	2 1/16	3/32	1.862	0.015	0.103	0.003	0.051	47.290	0.380	2.620	0.080	2-134
2-135	-135	1 15/16	2 1/8	3/32	1.925	0.017	0.103	0.003	0.053	48.900	0.430	2.620	0.080	2-135
2-136	-136	2	2 3/16	3/32	1.987	0.017	0.103	0.003	0.055	50.470	0.430	2.620	0.080	2-136
2-137	-137	2 1/16	2 1/4	3/32	2.050	0.017	0.103	0.003	0.056	52.070	0.430	2.620	0.080	2-137
2-138	-138	2 1/8	2 5/16	3/32	2.112	0.017	0.103	0.003	0.058	53.640	0.430	2.620	0.080	2-138
2-139	-139	2 3/16	2 3/8	3/32	2.175	0.017	0.103	0.003	0.060	55.250	0.043	2.620	0.080	2-139

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (045....139)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-045	0.73	1.01	2.21	4.05	2.59*	2.59*	4.05	25.45*	9.33*	3.97*	0.94
-046	0.79	1.28	2.30	4.16	3.28*	3.28*	4.33*	27.33*	9.50*	4.00*	1.06
-047	0.88	1.36	2.56	4.68*	3.48*	3.48*	4.75*	29.14*	9.89*	4.87*	1.12
-048	1.03	1.45	2.65	5.89*	3.69*	3.69*	4.85*	O/R*	10.22*	5.01*	1.18*
-049	1.34	1.65	3.47	6.43*	4.23*	4.23*	5.98*	O/R*	10.63*	6.91*	1.23
-050	1.34	1.81	3.72	6.84*	4.65*	4.65*	6.66*	31.28*	O/R*	7.37*	1.33
-102	0.08*	0.11*	0.24	0.67*	0.30*	0.30*	0.49*	O/R*	O/R*	1.12*	O/R*
-103	0.08	0.09*	0.25	0.67*	0.26*	0.26*	0.46*	O/R*	O/R*	1.13*	O/R*
-104	0.05	0.07*	0.25	0.67*	0.17	0.17*	0.44*	O/R*	O/R*	1.16	O/R*
-105	0.05	0.08*	0.26	0.67*	0.19	0.19*	0.46	4.12*	O/R*	1.18	O/R*
-106	0.05	0.08*	0.25*	0.67	0.19	0.19*	0.46*	3.27	1.33*	1.22	0.27*
-107	0.05	0.08	0.25	0.67	0.20	0.20*	0.46*	O/R*	1.33*	1.24*	O/R*
-108	0.11	0.08	0.26	0.69	0.21	0.21*	0.46	O/R*	1.33*	1.28	0.27
-109	0.05	0.08	0.28	0.69	0.21	0.21*	0.46	3.50*	1.47*	1.49	0.39
-110	0.07	0.08	0.29	0.69	0.65	0.65*	0.47	3.17	1.47*	1.49	0.29
-111	0.07	0.08	0.30	0.75	0.68	0.68*	0.49	3.48	1.47	1.49	0.33
-112	0.07	0.09	0.36	0.77	0.72	0.72*	0.58	3.40	1.62*	1.49	0.33
-113	0.07	0.09	0.36	0.86	0.75	0.75*	0.56	3.61	1.65	1.49	0.54
-114	0.08	0.09	0.36	0.95	0.80	0.80*	0.57	4.04	1.65	1.49	0.54
-115	0.08	0.09	0.41	1.13	0.82	0.82*	0.57	4.37	1.65	1.49	0.54
-116	0.08	0.11	0.44	1.22	0.84	0.84*	0.58	4.84	1.86*	1.65	0.22
-117	0.08	0.16	0.46	1.35	0.89	0.89*	0.64	4.95	2.17	1.65	0.24
-118	0.09	0.16	0.48	1.47	0.91	0.91*	0.69*	5.45	2.41	1.77	0.22
-119	0.09	0.17	0.52	1.50	0.97*	0.97*	0.75*	5.41	2.42	1.77	0.25
-120	0.09	0.17	0.54	1.52	1.00	1.00*	0.83*	6.23	2.42	1.77	0.26
-121	0.11	0.19	0.61	1.54	1.16	1.16*	0.88	6.49	3.43*	1.77	0.26
-122	0.11	0.19	0.66	1.56	1.21	1.21*	0.92*	6.74	3.43	1.77	0.28
-123	0.11	0.20	0.70	1.56	1.26	1.26*	0.95	6.99*	2.47*	1.77	0.63
-124	0.18	0.21	0.70	1.57	1.34	1.34*	1.03*	7.25	2.48	1.77	0.66
-125	0.18	0.21	0.73	1.75	1.49	1.49*	1.05*	7.01	2.64	1.87	0.66
-126	0.19	0.24	0.77	1.93	0.51*	0.51*	1.09*	7.43	2.79	1.87	0.66
-127	0.20	0.25	0.79	2.00	0.53	0.53*	1.10*	7.67	2.69	1.87*	0.66
-128	0.22	0.28	0.85	2.11	0.63*	0.63*	1.15*	8.95*	2.87	1.87*	0.66
-129	0.22	0.28	0.90	2.27	0.63	0.63*	1.32*	9.00	2.99*	1.87	0.66
-130	0.24	0.32	0.94	2.43	0.71	0.71*	1.36*	9.50	5.70*	1.87	0.66
-131	0.26	0.33	0.94	2.63	0.73	0.73*	1.42	9.77*	3.10	2.19	0.66
-132	0.26	0.33	0.96	2.79	0.74	0.74*	1.46	10.05	3.31*	2.19	0.70
-133	0.27	0.36	1.00	2.99	0.79	0.79*	1.53*	9.87	3.39*	2.19	0.70
-134	0.27	0.40	1.00	3.08	0.86	0.86*	1.58*	10.14*	4.40*	2.19	0.70
-135	0.27	0.42	1.06	3.13	0.89*	0.89*	1.64*	10.40*	4.22*	2.97*	0.70
-136	0.28	0.44	1.14	3.15	0.93	0.93*	1.81*	10.66*	4.30	3.05	0.70
-137	0.28	0.44	1.16	3.17	0.93	0.93*	1.87*	10.92*	4.57*	3.14	0.70
-138	0.33	0.46	1.20	3.22	0.99	0.99*	1.92*	11.19*	4.80*	3.42	0.70
-139	0.33	0.48	1.24	3.26	1.03*	1.03*	1.98	11.45	4.66*	3.42*	0.70

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

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (140....205)

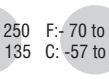
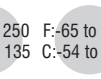
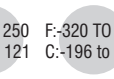
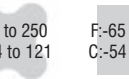
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-140	-140	2 1/4	2 7/16	3/32	2.237	0.017	0.103	0.003	0.061	56.820	0.430	2.620	0.080	2-140
2-141	-141	2 5/16	2 1/2	3/32	2.300	0.020	0.103	0.003	0.063	58.420	0.510	2.620	0.080	2-141
2-142	-142	2 3/8	2 9/16	3/32	2.362	0.020	0.103	0.003	0.065	59.990	0.510	2.620	0.080	2-142
2-143	-143	2 7/16	2 5/8	3/32	2.425	0.020	0.103	0.003	0.066	61.600	0.510	2.620	0.080	2-143
2-144	-144	2 1/2	2 11/16	3/32	2.487	0.020	0.103	0.003	0.068	63.170	0.510	2.620	0.080	2-144
2-145	-145	2 9/16	2 3/4	3/32	2.550	0.020	0.103	0.003	0.069	64.770	0.510	2.620	0.080	2-145
2-146	-146	2 5/8	2 13/16	3/32	2.612	0.020	0.103	0.003	0.071	66.340	0.510	2.620	0.080	2-146
2-147	-147	2 11/16	2 7/8	3/32	2.675	0.022	0.103	0.003	0.073	67.950	0.560	2.620	0.080	2-147
2-148	-148	2 3/4	2 15/16	3/32	2.737	0.022	0.103	0.003	0.074	69.520	0.560	2.620	0.080	2-148
2-149	-149	2 13/16	3	3/32	2.800	0.022	0.103	0.003	0.076	71.120	0.560	2.620	0.080	2-149
2-150	-150	2 7/8	3 1/16	3/32	2.862	0.022	0.103	0.003	0.078	72.690	0.560	2.620	0.080	2-150
2-151	-151	3	3 3/16	3/32	2.987	0.024	0.103	0.003	0.081	75.870	0.610	2.620	0.080	2-151
2-152	-152	3 1/4	3 7/16	3/32	3.237	0.024	0.103	0.003	0.087	82.220	0.610	2.620	0.080	2-152
2-153	-153	3 1/2	3 11/16	3/32	3.487	0.024	0.103	0.003	0.094	88.570	0.610	2.620	0.080	2-153
2-154	-154	3 3/4	3 15/16	3/32	3.737	0.028	0.103	0.003	0.101	94.920	0.710	2.620	0.080	2-154
2-155	-155	4	4 3/16	3/32	3.987	0.028	0.103	0.003	0.107	101.270	0.710	2.620	0.080	2-155
2-156	-156	4 1/4	4 7/16	3/32	4.237	0.030	0.103	0.003	0.114	107.620	0.760	2.620	0.080	2-156
2-157	-157	4 1/2	4 11/16	3/32	4.487	0.030	0.103	0.003	0.120	113.970	0.760	2.620	0.080	2-157
2-158	-158	4 3/4	4 15/16	3/32	4.737	0.030	0.103	0.003	0.127	120.320	0.760	2.620	0.080	2-158
2-159	-159	5	5 3/16	3/32	4.987	0.035	0.103	0.003	0.133	126.670	0.890	2.620	0.080	2-159
2-160	-160	5 1/4	5 7/16	3/32	5.237	0.035	0.103	0.003	0.140	133.020	0.890	2.620	0.080	2-160
2-161	-161	5 1/2	5 11/16	3/32	5.487	0.035	0.103	0.003	0.146	139.370	0.890	2.620	0.080	2-161
2-162	-162	5 3/4	5 15/16	3/32	5.737	0.035	0.103	0.003	0.153	145.720	0.890	2.620	0.080	2-162
2-163	-163	6	6 3/16	3/32	5.987	0.035	0.103	0.003	0.159	152.070	0.890	2.620	0.080	2-163
2-164	-164	6 1/4	6 7/16	3/32	6.237	0.040	0.103	0.003	0.166	158.420	1.020	2.620	0.080	2-164
2-165	-165	6 1/2	6 11/16	3/32	6.487	0.040	0.103	0.003	0.173	164.770	1.020	2.620	0.080	2-165
2-166	-166	6 3/4	6 15/16	3/32	6.737	0.040	0.103	0.003	0.179	171.120	1.020	2.620	0.080	2-166
2-167	-167	7	7 3/16	3/32	6.987	0.040	0.103	0.003	0.186	177.470	1.020	2.620	0.080	2-167
2-168	-168	7 1/4	7 7/16	3/32	7.237	0.045	0.103	0.003	0.192	183.820	1.140	2.620	0.080	2-168
2-169	-169	7 1/2	7 11/16	3/32	7.487	0.045	0.103	0.003	0.199	190.170	1.140	2.620	0.080	2-169
2-170	-170	7 3/4	7 15/16	3/32	7.737	0.045	0.103	0.003	0.205	196.520	1.140	2.620	0.080	2-170
2-171	-171	8	8 3/16	3/32	7.987	0.045	0.103	0.003	0.212	202.870	1.140	2.620	0.080	2-171
2-172	-172	8 1/4	8 7/16	3/32	8.237	0.050	0.103	0.003	0.218	209.220	1.270	2.620	0.080	2-172
2-173	-173	8 1/2	8 11/16	3/32	8.487	0.050	0.103	0.003	0.225	215.570	1.270	2.620	0.080	2-173
2-174	-174	8 3/4	8 15/16	3/32	8.737	0.050	0.103	0.003	0.231	221.920	1.270	2.620	0.080	2-174
2-175	-175	9	9 3/16	3/32	8.987	0.050	0.103	0.003	0.238	228.270	1.270	2.620	0.080	2-175
2-176	-176	9 1/4	9 7/16	3/32	9.237	0.055	0.103	0.003	0.245	234.620	1.400	2.620	0.080	2-176
2-177	-177	9 1/2	9 11/16	3/32	9.487	0.055	0.103	0.003	0.251	240.970	1.400	2.620	0.080	2-177
2-178	-178	9 3/4	9 15/16	3/32	9.737	0.055	0.103	0.003	0.258	247.320	1.400	2.620	0.080	2-178
2-201	-201	3/16	7/16	1/8	0.171	0.055	0.139	0.004	0.015	4.340	0.130	3.530	0.100	2-201
2-202	-202	1/4	1/2	1/8	0.234	0.005	0.139	0.004	0.018	5.940	0.130	3.530	0.100	2-202
2-203	-203	5/16	9/16	1/8	0.296	0.005	0.139	0.004	0.021	7.520	0.130	3.530	0.100	2-203
2-204	-204	3/8	5/8	1/8	0.359	0.005	0.139	0.004	0.024	9.120	0.130	3.530	0.100	2-204
2-205	-205	7/16	11/16	1/8	0.421	0.005	0.139	0.004	0.027	10.690	0.130	3.530	0.100	2-205

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (140....205)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-140	0.33	0.48	1.29	3.31	1.04*	1.04*	2.04*	11.71*	5.01	3.60	0.70
-141	0.39	0.48	1.32	3.40	1.06	1.06*	2.08*	11.97*	5.19*	3.73	0.70*
-142	0.39	0.50	1.32	3.42	1.06	1.06*	2.14*	12.24*	5.59	3.90*	0.70*
-143	0.39	0.53	1.37	3.49	1.14	1.14*	2.19	12.50*	5.30*	3.19*	0.70
-144	0.43	0.53	1.37	3.51	1.16	1.16*	2.25*	17.18*	5.59	4.06	0.70
-145	0.43	0.53	1.44	3.69	1.17	1.17*	2.31*	17.54*	8.08	4.11	0.70
-146	0.43	0.55	1.48	3.82	1.21*	1.21	2.35*	17.89*	5.87	4.11	0.70
-147	0.43	0.55	1.51	4.25	1.23	1.23*	2.43*	18.24*	5.60*	4.00	0.73
-148	0.43	0.55	1.56	4.36	1.24	1.24*	2.49	18.60*	5.65*	4.15	0.73
-149	0.45	0.59	1.60	4.68	1.27	1.27*	2.53*	19.81*	5.73*	4.16	0.73
-150	0.45	0.65	1.72	5.22	1.40*	1.40*	2.72*	20.18*	6.04*	4.20	0.73
-151	0.49	0.66	1.88	5.47	1.43	1.43*	2.86*	20.92*	6.59*	4.31	0.75
-152	0.57	0.78	2.07	7.05	1.67*	1.67*	3.25	22.40*	9.28*	4.33	0.75
-153	0.61	0.81	2.27	7.77*	1.73	1.73*	3.41*	23.88	10.06*	4.57	0.81
-154	0.61	0.96	2.48	7.96	1.93*	1.93*	3.83*	25.36	10.17*	4.41	0.85
-155	0.79	1.18	2.58	8.09*	2.20*	2.20*	4.15	26.84*	10.33	4.41	1.06
-156	0.98	1.31	2.87	8.33*	2.59*	2.59*	4.71*	28.31	10.83*	4.41	1.27
-157	1.00	1.58	3.16	8.70*	3.13	3.13*	4.90*	29.79	11.12	4.52	1.55
-158	1.03	1.69	3.34	9.04	3.34*	3.34*	5.53*	31.27	9.55*	5.30	1.69
-159	1.13	1.88	3.66	9.37	3.82*	3.82*	5.72*	32.75*	12.84*	5.46	1.84
-160	1.21	1.97	4.17	9.71	4.26*	4.26*	6.37*	34.23*	13.08*	5.46	1.96
-161	1.34	2.14	4.62	10.11*	4.56*	4.56*	7.34*	35.71*	13.33*	5.61*	2.19
-162	1.59	2.22	4.97	10.45	5.19*	5.19*	8.21*	37.19	13.64*	5.77	2.37
-163	1.64	2.88	5.36	11.05*	5.49*	5.49*	9.07*	38.67*	13.97*	5.83*	2.49
-164	1.83	3.91	5.68	11.72*	6.68*	6.68*	9.61*	O/R*	14.14*	8.21*	2.55
-165	1.89	4.00	6.23	12.38*	6.88*	6.88*	10.16*	O/R*	14.45*	10.51	2.58
-166	1.89	4.20	6.35	12.68*	7.23*	7.23*	10.84*	O/R*	15.10*	11.89	2.60
-167	1.89	4.56*	6.43	12.90*	7.85*	7.85*	12.34*	O/R*	O/R*	12.11*	2.66*
-168	2.08	4.73	6.75*	13.02*	8.16*	8.16*	12.67*	O/R*	O/R*	13.73	2.99*
-169	2.13	4.91	7.15	13.26*	8.49*	8.49*	12.96*	O/R*	O/R*	15.21*	3.02
-170	2.20	5.34	8.33	13.33*	8.79*	8.79*	13.25*	O/R*	O/R*	16.00*	2.95*
-171	2.74	5.76	8.72	13.42*	9.89*	9.89*	14.02*	O/R*	O/R*	37.54	3.07*
-172	2.85	5.91	9.13	13.58*	10.33*	10.33*	14.60*	O/R*	O/R*	38.19*	3.07*
-173	3.05	6.14	9.13	15.05*	10.65*	10.65*	15.09*	O/R*	O/R*	42.91	3.09*
-174	3.35	6.36	9.32	15.88*	10.98*	10.98*	15.67*	O/R*	O/R*	43.77*	3.13
-175	3.65	6.51	9.67	16.73*	11.31*	11.31*	16.16*	O/R*	O/R*	44.84*	3.16*
-176	3.96	6.83	10.31	17.23	11.75*	11.75*	17.32*	O/R*	O/R*	45.59*	3.24*
-177	4.08	7.05	10.50*	17.45*	12.19*	12.19*	17.80*	O/R*	O/R*	49.03*	3.69*
-178	4.27	7.30	11.03	17.59*	12.61*	12.61*	18.96*	O/R*	O/R*	50.21*	3.77*
-201	0.05	0.10	0.42	1.03*	0.27*	0.27*	0.49*	O/R*	O/R*	1.54	O/R*
-202	0.05	0.10	0.45	1.09	0.29	0.29*	0.49	O/R*	O/R*	1.61	O/R*
-203	0.07	0.10	0.48	1.13*	0.31*	0.31*	0.52*	3.34*	O/R*	1.67	0.61*
-204	0.07	0.10	0.49	1.19*	0.31	0.31*	0.53	4.53*	O/R*	1.65	0.61
-205	0.07	0.10	0.49	1.23*	0.31*	0.31*	0.55	4.48*	O/R*	1.65	0.61

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

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (206....249)

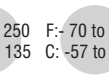
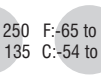
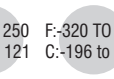
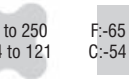
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-206	-206	1/2	3/4	1/8	0.484	0.005	0.139	0.004	0.030	12.290	0.130	3.530	0.100	2-206
2-207	-207	9/16	13/16	1/8	0.546	0.007	0.139	0.004	0.033	13.870	0.180	3.530	0.100	2-207
2-208	-208	5/8	7/8	1/8	0.609	0.009	0.139	0.004	0.036	15.470	0.230	3.530	0.100	2-208
2-209	-209	11/16	15/16	1/8	0.671	0.010	0.139	0.004	0.039	17.040	0.230	3.530	0.100	2-209
2-210	-210	3/4	1	1/8	0.734	0.010	0.139	0.004	0.042	18.640	0.250	3.530	0.100	2-210
2-211	-211	13/16	1 1/16	1/8	0.796	0.010	0.139	0.004	0.045	20.220	0.250	3.530	0.100	2-211
2-212	-212	7/8	1 1/8	1/8	0.859	0.010	0.139	0.004	0.048	21.820	0.250	3.530	0.100	2-212
2-213	-213	15/16	1 3/16	1/8	0.921	0.010	0.139	0.004	0.051	23.390	0.250	3.530	0.100	2-213
2-214	-214	1	1 1/4	1/8	0.984	0.010	0.139	0.004	0.054	24.990	0.250	3.530	0.100	2-214
2-215	-215	1 1/16	1 5/16	1/8	1.046	0.010	0.139	0.004	0.057	26.570	0.250	3.530	0.100	2-215
2-216	-216	1 1/8	1 3/8	1/8	1.109	0.012	0.139	0.004	0.060	28.170	0.300	3.530	0.100	2-216
2-217	-217	1 3/16	1 7/16	1/8	1.171	0.012	0.139	0.004	0.062	29.740	0.300	3.530	0.100	2-217
2-218	-218	1 1/4	1 1/2	1/8	1.234	0.012	0.139	0.004	0.065	31.340	0.300	3.530	0.100	2-218
2-219	-219	1 5/16	1 9/16	1/8	1.296	0.012	0.139	0.004	0.068	32.920	0.300	3.530	0.100	2-219
2-220	-220	1 3/8	1 5/8	1/8	1.359	0.012	0.139	0.004	0.071	34.520	0.300	3.530	0.100	2-220
2-221	-221	1 7/16	1 11/16	1/8	1.421	0.012	0.139	0.004	0.074	36.090	0.300	3.530	0.100	2-221
2-222	-222	1 1/2	1 3/4	1/8	1.484	0.015	0.139	0.004	0.077	37.690	0.380	3.530	0.100	2-222
2-223	-223	1 5/8	1 7/8	1/8	1.609	0.015	0.139	0.004	0.083	40.870	0.380	3.530	0.100	2-223
2-224	-224	1 3/4	2	1/8	1.734	0.015	0.139	0.004	0.089	44.040	0.380	3.530	0.100	2-224
2-225	-225	1 7/8	2 1/8	1/8	1.859	0.018	0.139	0.004	0.095	47.220	0.460	3.530	0.100	2-225
2-226	-226	2	2 1/4	1/8	1.984	0.018	0.139	0.004	0.101	50.390	0.460	3.530	0.100	2-226
2-227	-227	2 1/8	2 3/8	1/8	2.109	0.018	0.139	0.004	0.107	53.570	0.460	3.530	0.100	2-227
2-228	-228	2 1/4	2 1/2	1/8	2.234	0.020	0.139	0.004	0.113	56.740	0.510	3.530	0.100	2-228
2-229	-229	2 3/8	2 5/8	1/8	2.359	0.020	0.139	0.004	0.119	59.920	0.510	3.530	0.100	2-229
2-230	-230	2 1/2	2 3/4	1/8	2.484	0.020	0.139	0.004	0.125	63.090	0.510	3.530	0.100	2-230
2-231	-231	2 5/8	2 7/8	1/8	2.609	0.020	0.139	0.004	0.131	66.270	0.510	3.530	0.100	2-231
2-232	-232	2 3/4	3	1/8	2.734	0.024	0.139	0.004	0.137	69.440	0.610	3.530	0.100	2-232
2-233	-233	2 7/8	3 1/8	1/8	2.859	0.024	0.139	0.004	0.143	72.620	0.610	3.530	0.100	2-233
2-234	-234	3	3 1/4	1/8	2.984	0.024	0.139	0.004	0.149	75.790	0.610	3.530	0.100	2-234
2-235	-235	3 1/8	3 3/8	1/8	3.109	0.024	0.139	0.004	0.155	78.970	0.610	3.530	0.100	2-235
2-236	-236	3 1/4	3 1/2	1/8	3.234	0.024	0.139	0.004	0.161	82.140	0.610	3.530	0.100	2-236
2-237	-237	3 3/8	3 5/8	1/8	3.359	0.024	0.139	0.004	0.167	85.320	0.610	3.530	0.100	2-237
2-238	-238	3 1/2	3 3/4	1/8	3.484	0.024	0.139	0.004	0.173	88.490	0.610	3.530	0.100	2-238
2-239	-239	3 5/8	3 7/8	1/8	3.609	0.028	0.139	0.004	0.179	91.670	0.710	3.530	0.100	2-239
2-240	-240	3 3/4	4	1/8	3.734	0.028	0.139	0.004	0.185	94.840	0.710	3.530	0.100	2-240
2-241	-241	3 7/8	4 1/8	1/8	3.859	0.028	0.139	0.004	0.191	98.020	0.710	3.530	0.100	2-241
2-242	-242	4	4 1/4	1/8	3.984	0.028	0.139	0.004	0.197	101.190	0.710	3.530	0.100	2-242
2-243	-243	4 1/8	4 3/8	1/8	4.109	0.028	0.139	0.004	0.203	104.370	0.710	3.530	0.100	2-243
2-244	-244	4 1/4	4 1/2	1/8	4.234	0.030	0.139	0.004	0.209	107.540	0.760	3.530	0.100	2-244
2-245	-245	4 3/8	4 5/8	1/8	4.359	0.030	0.139	0.004	0.214	110.720	0.760	3.530	0.100	2-245
2-246	-246	4 1/2	4 3/4	1/8	4.484	0.030	0.139	0.004	0.220	113.890	0.760	3.530	0.100	2-246
2-247	-247	4 5/8	4 7/8	1/8	4.609	0.030	0.139	0.004	0.226	117.070	0.760	3.530	0.100	2-247
2-248	-248	4 3/4	5	1/8	4.734	0.030	0.139	0.004	0.232	120.240	0.760	3.530	0.100	2-248
2-249	-249	4 7/8	5 1/8	1/8	4.859	0.035	0.139	0.004	0.238	123.420	0.890	3.530	0.100	2-249

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (206....249)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-206	0.08	0.16	0.50	1.43	0.38	0.38*	0.58	4.47	1.33*	1.65	0.38
-207	0.08	0.16	0.53	1.46	0.40*	0.40*	0.59	4.47*	1.33*	1.65	0.39
-208	0.09	0.17	0.53	1.52	0.41	0.41*	0.67	4.47*	2.23*	1.65	0.39
-209	0.09	0.17	0.57	1.57	0.43*	0.43*	0.70	4.47	1.84*	1.65	0.39
-210	0.09	0.18	0.61	1.68	0.47	0.47*	0.71	4.56	1.95	1.65	0.40
-211	0.11	0.18	0.66	1.80	0.49	0.49*	0.73*	4.40	3.06	1.65	0.40
-212	0.11	0.20	0.70	2.06	0.54	0.54*	0.87	4.73	3.75	1.65	0.40
-213	0.11	0.21	0.77	2.15	0.56	0.56*	0.95	5.07	2.43*	1.66	0.40
-214	0.16	0.21	0.85	2.20	0.59	0.59	1.02	5.29	2.43	1.77	0.40
-215	0.18	0.25	0.90	2.76	0.65	0.65*	1.14	5.52	2.50	1.77	0.40
-216	0.18	0.25	0.94	2.98	0.70	0.70*	1.14	5.49	2.53	1.95	0.40
-217	0.19	0.26	0.94	3.00	0.76	0.76*	1.23	5.59*	2.95*	1.95	0.47
-218	0.19	0.28	1.00	3.10	0.79	0.79*	1.24	5.69	3.79	1.95	0.45
-219	0.19	0.29	1.08	3.22	0.85	0.85*	1.27	5.93	3.79	1.95	0.45
-220	0.20	0.32	1.15	3.37	0.88	0.88*	1.31	5.90	4.20	2.19	0.46
-221	0.22	0.32	1.19	3.49	0.90*	0.90*	1.44	6.15	4.85	2.19	0.50
-222	0.24	0.37	1.25	3.57	1.01	1.01*	1.60	8.38	4.80	2.19	0.50
-223	0.27	0.42	1.33	3.27	1.12	1.12*	1.68	9.12	5.30	2.60	0.50
-224	0.28	0.45	1.47	3.74	1.22	1.22*	1.75	9.01	5.30	2.60	0.50
-225	0.30	0.46	1.58	4.34	1.28	1.28*	1.82	9.34	5.59	2.60	0.50
-226	0.37	0.48	1.78	4.22	1.48*	1.48*	1.87	9.92	5.59	2.60	0.51
-227	0.37	0.53	1.90	4.22	1.57	1.57*	1.92	10.53	5.87	2.60	0.51
-228	0.39	0.55	1.97	4.71	1.73	1.73*	1.98	10.66	6.18	2.94	0.54
-229	0.43	0.59	2.09	4.88	1.86*	1.86*	2.04	10.78	6.18	2.94	0.62
-230	0.46	0.63	2.18	5.10	1.93*	1.93*	2.30	14.05	5.94	3.04*	0.51
-231	0.49	0.65	2.31	5.47	2.02	2.02*	2.40	14.71	6.32	3.04	0.51
-232	0.49	0.71	2.39	5.75	2.20	2.20*	2.48	15.25	6.62	3.04	0.51
-233	0.52	0.73	2.51	5.35	2.25*	2.25*	2.48	15.81	6.41	3.04	0.51
-234	0.54	0.73	2.67	6.15	2.31*	2.31*	2.57	16.39	6.91	3.04	0.54
-235	0.57	0.83	2.79	6.64	2.47*	2.47*	2.57*	16.14	7.14*	3.04	0.59
-236	0.61	0.86	2.91	6.72	2.54	2.54*	2.91*	16.73	7.20*	3.04	0.63
-237	0.61	0.90	3.02	6.82	2.59*	2.59*	2.70	17.35	7.02*	3.04	0.65
-238	0.65	0.91	3.16	7.03	2.59*	2.59*	2.91*	19.88	7.49	5.31	0.65
-239	0.65	0.99	3.26	5.64	2.85*	2.85*	3.38	20.61	7.32	5.31	0.72
-240	0.66	0.99	3.34	8.38	2.88*	2.88*	3.47	21.36	7.87	5.31	0.75
-241	0.68	1.00	3.54	7.79	2.90*	2.90*	3.82	22.15	8.12*	5.31	0.75
-242	0.73	1.06	3.57	7.88	2.94	2.94*	4.53	22.96	8.58*	5.31	0.75
-243	0.79	1.14	3.78	8.47	3.12*	3.12*	4.53*	23.80	12.59	5.44*	0.80
-244	0.81	1.18	3.94	8.65	3.13*	3.13*	4.53	24.67	12.71	5.44	0.80
-245	0.92	1.31	4.00	8.96	3.17	3.17*	4.53*	25.58*	12.91*	5.44	0.93
-246	1.03	1.53	4.17	7.39	3.58	3.58*	4.81*	26.51	14.04	5.44	1.11
-247	1.06	1.58	4.25	8.85	3.80*	3.80*	4.81	26.65*	13.53*	5.44	1.40
-248	1.10	1.60	4.35	9.05	4.02	4.02*	5.28*	27.63	14.71*	5.73	1.43
-249	1.17	1.60	4.45	9.25	4.14*	4.14*	6.57	26.85	14.05*	5.73*	1.49

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

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (250....317)

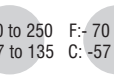
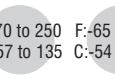
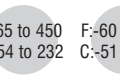
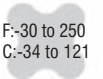
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-250	-250	5	5 1/4	1/8	4.984	0.035	0.139	0.004	0.244	126.590	0.890	3.530	0.100	2-250
2-251	-251	5 1/8	5 3/8	1/8	5.109	0.035	0.139	0.004	0.250	129.770	0.890	3.530	0.100	2-251
2-252	-252	5 1/4	5 1/2	1/8	5.234	0.035	0.139	0.004	0.256	132.940	0.890	3.530	0.100	2-252
2-253	-253	5 3/8	5 5/8	1/8	5.359	0.035	0.139	0.004	0.262	136.120	0.890	3.530	0.100	2-253
2-254	-254	5 1/2	5 3/4	1/8	5.484	0.035	0.139	0.004	0.268	139.290	0.890	3.530	0.100	2-254
2-255	-255	5 5/8	5 7/8	1/8	5.609	0.035	0.139	0.004	0.274	142.470	0.890	3.530	0.100	2-255
2-256	-256	5 3/4	6	1/8	5.734	0.035	0.139	0.004	0.280	145.640	0.890	3.530	0.100	2-256
2-257	-257	5 7/8	6 1/8	1/8	5.859	0.035	0.139	0.004	0.286	148.820	0.890	3.530	0.100	2-257
2-258	-258	6	6 1/4	1/8	5.984	0.035	0.139	0.004	0.292	151.990	0.890	3.530	0.100	2-258
2-259	-259	6 1/4	6 1/2	1/8	6.234	0.040	0.139	0.004	0.304	158.340	1.020	3.530	0.100	2-259
2-260	-260	6 1/2	6 3/4	1/8	6.484	0.040	0.139	0.004	0.316	164.690	1.020	3.530	0.100	2-260
2-261	-261	6 3/4	7	1/8	6.734	0.040	0.139	0.004	0.328	171.040	1.020	3.530	0.100	2-261
2-262	-262	7	7 1/4	1/8	6.984	0.040	0.139	0.004	0.340	177.390	1.020	3.530	0.100	2-262
2-263	-263	7 1/4	7 1/2	1/8	7.234	0.045	0.139	0.004	0.352	183.740	1.140	3.530	0.100	2-263
2-264	-264	7 1/2	7 3/4	1/8	7.484	0.045	0.139	0.004	0.363	190.090	1.140	3.530	0.100	2-264
2-265	-265	7 3/4	8	1/8	7.734	0.045	0.139	0.004	0.375	196.400	1.140	3.530	0.100	2-265
2-266	-266	8	8 1/4	1/8	7.984	0.045	0.139	0.004	0.387	202.790	1.140	3.530	0.100	2-266
2-267	-267	8 1/4	8 1/2	1/8	8.234	0.050	0.139	0.004	0.399	209.140	1.270	3.530	0.100	2-267
2-268	-268	8 1/2	8 3/4	1/8	8.484	0.050	0.139	0.004	0.411	215.490	1.270	3.530	0.100	2-268
2-269	-269	8 3/4	9	1/8	8.734	0.050	0.139	0.004	0.423	221.840	1.270	3.530	0.100	2-269
2-270	-270	9	9 1/4	1/8	8.984	0.050	0.139	0.004	0.435	228.190	1.270	3.530	0.100	2-270
2-271	-271	9 1/4	9 1/2	1/8	9.234	0.055	0.139	0.004	0.447	234.540	1.400	3.530	0.100	2-271
2-272	-272	9 1/2	9 3/4	1/8	9.484	0.055	0.139	0.004	0.459	240.890	1.400	3.530	0.100	2-272
2-273	-273	9 3/4	10	1/8	9.734	0.055	0.139	0.004	0.471	247.240	1.400	3.530	0.100	2-273
2-274	-274	10	10 1/4	1/8	9.984	0.055	0.139	0.004	0.483	253.590	1.400	3.530	0.100	2-274
2-275	-275	10 1/2	10 3/4	1/8	10.484	0.055	0.139	0.004	0.506	266.290	1.400	3.530	0.100	2-275
2-276	-276	11	11 1/4	1/8	10.984	0.065	0.139	0.004	0.530	278.990	1.650	3.530	0.100	2-276
2-277	-277	11 1/2	11 3/4	1/8	11.484	0.065	0.139	0.004	0.554	291.690	1.650	3.530	0.100	2-277
2-278	-278	12	12 1/4	1/8	11.984	0.065	0.139	0.004	0.578	304.390	1.650	3.530	0.100	2-278
2-279	-279	13	13 1/4	1/8	12.984	0.065	0.139	0.004	0.626	329.790	1.650	3.530	0.100	2-279
2-280	-280	14	14 1/4	1/8	13.984	0.065	0.139	0.004	0.673	355.190	1.650	3.530	0.100	2-280
2-281	-281	15	15 1/4	1/8	14.984	0.065	0.139	0.004	0.721	380.590	1.650	3.530	0.100	2-281
2-282	-282	16	16 1/4	1/8	15.955	0.075	0.139	0.004	0.767	405.260	1.910	3.530	0.100	2-282
2-283	-283	17	17 1/4	1/8	16.955	0.080	0.139	0.004	0.815	430.660	2.030	3.530	0.100	2-283
2-284	-284	18	18 1/4	1/8	17.955	0.085	0.139	0.004	0.863	456.060	2.160	3.530	0.100	2-284
2-309	-309	7/16	13/16	3/16	0.412	0.005	0.210	0.005	0.068	10.460	0.130	5.330	0.130	2-309
2-310	-310	1/2	7/8	3/16	0.475	0.005	0.210	0.005	0.075	12.070	0.130	5.330	0.130	2-310
2-311	-311	9/16	15/16	3/16	0.537	0.007	0.210	0.005	0.081	13.640	0.180	5.330	0.130	2-311
2-312	-312	5/8	1	3/16	0.600	0.009	0.210	0.005	0.088	15.240	0.230	5.330	0.130	2-312
2-313	-313	11/16	1 1/16	3/16	0.662	0.009	0.210	0.005	0.095	16.810	0.230	5.330	0.130	2-313
2-314	-314	3/4	1 1/8	3/16	0.725	0.010	0.210	0.005	0.102	18.420	0.250	5.330	0.130	2-314
2-315	-315	13/16	1 3/16	3/16	0.787	0.010	0.210	0.005	0.109	19.990	0.250	5.330	0.130	2-315
2-316	-316	7/8	1 1/4	3/16	0.850	0.010	0.210	0.005	0.115	21.590	0.250	5.330	0.130	2-316
2-317	-317	15/16	1 5/16	3/16	0.912	0.010	0.210	0.005	0.122	23.160	0.250	5.330	0.130	2-317

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (250....317)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-250	1.17	1.69	4.71	9.42*	4.34	4.34*	7.28	27.84	15.52*	5.73	1.58
-251	1.21	1.70	4.93	9.62	4.56*	4.56*	7.34	28.86*	14.62*	5.73*	1.62
-252	1.21	1.89	5.23	9.82	4.84*	4.84*	7.35	29.92	15.82*	8.09	1.75
-253	1.28	1.97	5.34	9.91	5.08*	5.08*	7.93*	31.02	20.58*	8.09	1.79
-254	1.41	2.14	5.52	9.14	5.28	5.28*	7.93*	32.16	12.05*	8.82	1.82
-255	1.46	2.15	5.76	10.75	5.49*	5.49*	7.93*	33.34	21.24*	9.54	1.88*
-256	1.52	2.30	5.96	12.05	5.91*	5.91*	7.93	32.91	25.59*	9.54	1.98
-257	1.59	2.64	6.14	12.35	5.96*	5.96*	7.93	34.97	28.78*	10.92*	2.04*
-258	1.64	2.67	6.31	12.55	6.25*	6.25*	7.93	37.14	32.35*	10.92	2.17
-259	1.83	2.75	6.43	13.05	6.34	6.34*	7.93*	41.82	32.35*	11.31	2.34
-260	1.83	2.85	6.54	11.22	6.54*	6.54*	9.79*	44.94	31.46*	10.47	2.43
-261	1.95	2.97	6.75	13.66	7.11	7.11*	11.72*	51.52	32.18*	13.22	2.43
-262	2.01	3.22	7.15	14.46	7.38	7.38*	11.89*	55.37	32.89*	13.22	2.46
-263	2.20	3.50	7.86	15.05	7.60*	7.60*	12.16*	59.50	35.57*	13.22	2.60
-264	2.25	3.71	8.89	12.63	8.52*	8.52*	14.65*	61.04	34.05*	13.22	2.63*
-265	2.44	3.91	9.51	21.12	8.97*	8.97*	14.87	65.60	37.47*	14.34	2.72
-266	2.50	4.00	9.91	21.92	9.19*	9.19*	15.27	68.80	39.59	21.92	2.91
-267	2.56	4.50	10.39	22.12	10.07*	10.07*	15.84*	71.21	41.07*	15.40	3.04
-268	2.81	4.64	10.78	21.09*	10.36	10.36*	16.23	73.63	45.79*	24.00	3.04
-269	3.05	4.91	11.17	21.79	10.77*	10.77*	16.75*	76.05*	43.84*	29.28	3.08*
-270	3.05	5.16	11.58	22.28	11.18*	11.18*	16.90*	78.46*	45.18*	36.04	3.21*
-271	3.05	5.40	12.01	22.89	11.72*	11.72*	18.11*	80.88*	46.68*	36.04	3.34
-272	3.05	5.61	12.40	25.17*	12.23*	12.23*	18.61*	83.29*	47.51*	36.04	3.38
-273	3.05	5.78	12.53	25.84	12.64*	12.64*	19.82*	85.71*	52.05*	38.23	3.44
-274	3.05	5.97	13.27	27.45	13.09*	13.09*	20.33*	88.13*	50.56*	39.72*	7.15
-275	3.35	5.97	13.76	27.85*	14.39*	14.39*	20.83*	92.96*	52.08*	41.46	7.67*
-276	3.65	6.01	13.95	28.25	21.23*	21.23*	26.22*	93.13*	53.86*	44.85	7.67*
-277	3.65	6.15	14.42	27.51*	21.43*	21.43*	30.43*	97.73	57.74*	46.09	7.67*
-278	3.96	6.15	14.83	29.46	21.70*	21.70*	30.58*	102.34	59.43*	47.82	23.10*
-279	4.87	6.29	15.57	30.96	28.31*	28.31*	54.56*	111.54	82.36*	49.77	O/R*
-280	5.98	6.37	15.85	33.98*	29.57*	29.57*	55.05*	120.74*	82.84*	53.26	O/R*
-281	7.01	6.47	17.67	37.49	29.74*	29.74*	55.54	97.08*	108.20*	57.78	O/R*
-282	7.62	6.67	18.23	39.49*	29.86*	29.86*	56.01	O/R*	O/R*	58.73	O/R*
-283	8.55	6.73	20.79	42.32*	32.60*	32.60*	56.48*	O/R*	O/R*	60.31	O/R*
-284	9.75	6.83*	20.79*	43.31*	33.57*	33.57*	59.87*	O/R*	O/R*	62.21	O/R*
-309	0.16	0.17	1.41*	3.94*	0.43*	0.43*	0.90*	O/R*	O/R*	O/R*	0.49*
-310	0.18	0.24	1.48	4.37*	0.50	0.50*	0.94*	O/R*	O/R*	2.53	0.49*
-311	0.18	0.25	1.60	4.78*	0.53*	0.53*	1.02*	O/R*	O/R*	2.56*	0.49
-312	0.20	0.26*	1.68*	5.05*	0.55*	0.55*	1.02*	O/R*	O/R*	2.59	0.49*
-313	0.20	0.28*	1.72*	5.28*	0.58*	0.58*	1.21*	O/R*	O/R*	2.67*	0.49*
-314	0.20	0.29	1.77	5.53*	0.61*	0.61*	1.38*	O/R*	O/R*	2.32	0.50*
-315	0.22	0.29	1.84*	5.56*	0.64*	0.64*	1.38*	O/R*	O/R*	2.79	0.52*
-316	0.22	0.32	1.84	5.76*	0.68*	0.68*	1.38*	O/R*	O/R*	2.34*	0.52
-317	0.22	0.32*	1.88	5.85*	0.69*	0.69*	1.38*	O/R*	O/R*	2.92*	0.52*

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

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (318....361)

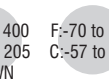
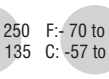
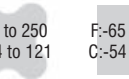
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-318	-318	1	1 3/8	3/16	0.975	0.010	0.210	0.005	0.129	24.770	0.250	5.330	0.130	2-318
2-319	-319	1 1/16	1 7/16	3/16	1.037	0.010	0.210	0.005	0.136	26.340	0.250	5.330	0.130	2-319
2-320	-320	1 1/8	1 1/2	3/16	1.100	0.012	0.210	0.005	0.143	27.940	0.300	5.330	0.130	2-320
2-321	-321	1 3/16	1 9/16	3/16	1.162	0.012	0.210	0.005	0.149	29.510	0.300	5.330	0.130	2-321
2-322	-322	1 1/4	1 5/8	3/16	1.225	0.012	0.210	0.005	0.156	31.120	0.300	5.330	0.130	2-322
2-323	-323	1 5/16	1 11/16	3/16	1.287	0.012	0.210	0.005	0.163	32.690	0.300	5.330	0.130	2-323
2-324	-324	1 3/8	1 3/4	3/16	1.350	0.012	0.210	0.005	0.170	34.290	0.300	5.330	0.130	2-324
2-325	-325	1 1/2	1 7/8	3/16	1.475	0.015	0.210	0.005	0.183	37.470	0.380	5.330	0.130	2-325
2-326	-326	1 5/8	2	3/16	1.600	0.015	0.210	0.005	0.197	40.640	0.380	5.330	0.130	2-326
2-327	-327	1 3/4	2 1/8	3/16	1.725	0.015	0.210	0.005	0.211	43.820	0.380	5.330	0.130	2-327
2-328	-328	1 7/8	2 1/4	3/16	1.850	0.015	0.210	0.005	0.224	46.990	0.380	5.330	0.130	2-328
2-329	-329	2	2 3/8	3/16	1.975	0.018	0.210	0.005	0.238	50.170	0.460	5.330	0.130	2-329
2-330	-330	2 1/8	2 1/2	3/16	2.100	0.018	0.210	0.005	0.251	53.340	0.460	5.330	0.130	2-330
2-331	-331	2 1/4	2 5/8	3/16	2.225	0.018	0.210	0.005	0.265	56.520	0.460	5.330	0.130	2-331
2-332	-332	2 3/8	2 3/4	3/16	2.350	0.018	0.210	0.005	0.279	59.690	0.460	5.330	0.130	2-332
2-333	-333	2 1/2	2 7/8	3/16	2.475	0.020	0.210	0.005	0.292	62.870	0.510	5.330	0.130	2-333
2-334	-334	2 5/8	3	3/16	2.600	0.020	0.210	0.005	0.306	66.040	0.510	5.330	0.130	2-334
2-335	-335	2 3/4	3 1/8	3/16	2.725	0.020	0.210	0.005	0.319	69.220	0.510	5.330	0.130	2-335
2-336	-336	2 7/8	3 1/4	3/16	2.850	0.020	0.210	0.005	0.333	72.390	0.510	5.330	0.130	2-336
2-337	-337	3	3 3/8	3/16	2.975	0.024	0.210	0.005	0.347	75.570	0.610	5.330	0.130	2-337
2-338	-338	3 1/8	3 1/2	3/16	3.100	0.024	0.210	0.005	0.360	78.740	0.610	5.330	0.130	2-338
2-339	-339	3 1/4	3 5/8	3/16	3.225	0.024	0.210	0.005	0.374	81.920	0.610	5.330	0.130	2-339
2-340	-340	3 3/8	3 3/4	3/16	3.350	0.024	0.210	0.005	0.387	85.090	0.610	5.330	0.130	2-340
2-341	-341	3 1/2	3 7/8	3/16	3.475	0.024	0.210	0.005	0.401	88.270	0.610	5.330	0.130	2-341
2-342	-342	3 5/8	4	3/16	3.600	0.028	0.210	0.005	0.415	91.440	0.710	5.330	0.130	2-342
2-343	-343	3 3/4	4 1/8	3/16	3.725	0.028	0.210	0.005	0.428	94.620	0.710	5.330	0.130	2-343
2-344	-344	3 7/8	4 1/4	3/16	3.850	0.028	0.210	0.005	0.442	97.790	0.710	5.330	0.130	2-344
2-345	-345	4	4 3/8	3/16	3.975	0.028	0.210	0.005	0.455	100.970	0.710	5.330	0.130	2-345
2-346	-346	4 1/8	4 1/2	3/16	4.100	0.028	0.210	0.005	0.469	104.140	0.710	5.330	0.130	2-346
2-347	-347	4 1/4	4 5/8	3/16	4.225	0.030	0.210	0.005	0.483	107.320	0.760	5.330	0.130	2-347
2-348	-348	4 3/8	4 3/4	3/16	4.350	0.030	0.210	0.005	0.496	110.490	0.760	5.330	0.130	2-348
2-349	-349	4 1/2	4 7/8	3/16	4.475	0.030	0.210	0.005	0.510	113.670	0.760	5.330	0.130	2-349
2-350	-350	4 5/8	5	3/16	4.600	0.030	0.210	0.005	0.523	116.840	0.760	5.330	0.130	2-350
2-351	-351	4 3/4	5 1/8	3/16	4.725	0.030	0.210	0.005	0.537	120.020	0.760	5.330	0.130	2-351
2-352	-352	4 7/8	5 1/4	3/16	4.850	0.030	0.210	0.005	0.551	123.190	0.760	5.330	0.130	2-352
2-353	-353	5	5 3/8	3/16	4.975	0.037	0.210	0.005	0.564	126.370	0.940	5.330	0.130	2-353
2-354	-354	5 1/8	5 1/2	3/16	5.100	0.037	0.210	0.005	0.578	129.540	0.940	5.330	0.130	2-354
2-355	-355	5 1/4	5 5/8	3/16	5.225	0.037	0.210	0.005	0.591	132.720	0.940	5.330	0.130	2-355
2-356	-356	5 3/8	5 3/4	3/16	5.350	0.037	0.210	0.005	0.605	135.890	0.940	5.330	0.130	2-356
2-357	-357	5 1/2	5 7/8	3/16	5.475	0.037	0.210	0.005	0.619	139.070	0.940	5.330	0.130	2-357
2-358	-358	5 5/8	6	3/16	5.600	0.037	0.210	0.005	0.632	142.240	0.940	5.330	0.130	2-358
2-359	-359	5 3/4	6 1/8	3/16	5.725	0.037	0.210	0.005	0.646	145.420	0.940	5.330	0.130	2-359
2-360	-360	5 7/8	6 1/4	3/16	5.850	0.037	0.210	0.005	0.659	148.590	0.940	5.330	0.130	2-360
2-361	-361	6	6 3/8	3/16	5.975	0.037	0.210	0.005	0.673	151.770	0.940	5.330	0.130	2-361

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (318....361)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-318	0.22	0.33	1.92	5.96*	0.74	0.74*	1.38*	6.54*	O/R*	2.34	0.52
-319	0.26	0.36	1.95*	6.15*	0.79*	0.79*	1.38*	6.70*	O/R*	2.58	0.52*
-320	0.27	0.38	2.01	6.35*	0.84*	0.84*	1.38*	6.70*	3.54*	2.58	0.53
-321	0.27	0.44*	2.03*	6.53*	0.87	0.87*	1.79*	6.70	4.23*	2.58*	0.54
-322	0.27	0.44	2.03	6.72*	1.00*	1.00*	1.79	6.70*	4.58*	2.67	0.71
-323	0.27	0.48*	2.27*	6.81*	1.00*	1.00*	1.79*	6.70*	5.36*	2.67	0.76*
-324	0.27	0.48	2.39	7.01*	1.03*	1.03*	1.79*	6.70	5.99*	2.67	0.85
-325	0.30	0.48	2.55	7.33	1.09	1.09*	1.79	9.87	6.62*	2.85	0.85
-326	0.30	0.48	2.72	7.42	1.17	1.17*	1.94*	10.36	7.36*	2.85	0.85
-327	0.39	0.50	2.79	7.63	1.25	1.25*	2.09*	10.33*	7.36*	2.85	0.85
-328	0.43	0.53	2.98	7.94	1.38	1.38*	2.27	10.84	8.17*	3.19	0.85
-329	0.46	0.65	3.39	8.53	1.61	1.61*	2.35	11.20*	7.44	3.19	0.85
-330	0.52	0.69	3.70	8.94	1.70*	1.70*	2.39	11.63	8.30*	3.19	0.97
-331	0.54	0.71	3.78	9.33	1.83*	1.83*	2.65	11.88	8.30	3.31	0.97
-332	0.61	0.77	4.28	9.63	1.96*	1.96*	2.65	12.47*	12.32*	3.31	0.97
-333	0.66	0.86	4.45	10.13	2.07	2.07*	2.65*	16.15	12.32*	3.64	0.97
-334	0.68	0.90	4.65	10.44	2.19	2.19*	2.65	16.48	12.44*	3.64	1.11
-335	0.73	0.98	4.93	11.04	2.41*	2.41*	2.99	17.29*	13.49*	3.95	1.11
-336	0.79	1.00	5.28	11.74	2.51	2.51*	2.99	19.71*	12.94	3.95	1.11
-337	0.81	1.06	5.57	12.24	2.59*	2.59*	4.51	22.86*	13.06*	4.14	1.11
-338	0.81	1.16	5.88	12.85	2.75*	2.75*	4.83	24.00	13.25	4.14	1.19
-339	0.92	1.22	6.27	13.56	2.93*	2.93*	5.01	25.19*	13.68	4.14*	1.19
-340	0.98	1.24	6.59	13.95*	2.99*	2.99*	5.27	26.44	12.46*	5.61	1.19
-341	0.98	1.33	6.75	14.26*	3.36*	3.36*	6.18*	27.75	14.04*	5.96	1.19
-342	1.06	1.37	6.99	14.45	3.44	3.44*	6.25	29.12	13.05*	6.28	1.28
-343	1.10	1.40	7.11	14.67*	3.52	3.52*	6.33*	30.57	15.75*	6.28*	1.28
-344	1.10	1.43	7.36	15.06	3.76*	3.76*	6.71*	32.08*	16.16*	7.20	1.28
-345	1.21	1.48	7.53	15.45	3.80*	3.80*	7.23*	33.67	16.91*	8.27	1.28
-346	1.21	1.49	7.86	15.76*	3.86*	3.86*	7.30*	35.34	16.03*	9.55	1.40
-347	1.21	1.62	7.90	15.95	3.94*	3.94*	7.36	37.10*	16.91*	9.55	1.49
-348	1.21	1.80	8.10	16.06	3.99*	3.99*	7.42	37.08	18.41	9.55	1.49
-349	1.34	1.81	8.33	16.26	4.04*	4.04*	7.50	40.87*	17.09*	9.55	1.49
-350	1.41	1.88	8.55	16.56*	4.66*	4.66*	8.12*	42.36	O/R*	9.55	1.68
-351	1.41	1.97	8.91	17.36*	4.71	4.71*	8.99*	45.02*	O/R*	11.71*	1.68
-352	1.46	2.03	9.05	18.08	4.76*	4.76*	9.32*	O/R*	O/R*	11.71	1.68
-353	1.52	2.13	9.32	18.58*	4.76*	4.76*	9.64*	O/R*	O/R*	11.71	1.99
-354	1.64	2.15	9.35	19.08*	4.76*	4.76*	10.19*	41.14	O/R*	15.40	1.99
-355	1.83	2.32	9.43	19.88	5.60*	5.60*	10.49*	O/R*	O/R*	15.40*	1.99
-356	1.83	2.48	10.50	20.08*	5.64*	5.64*	10.16*	O/R*	O/R*	15.40	1.99
-357	1.89	2.51	10.91	20.18	5.71*	5.71*	10.36*	O/R*	O/R*	16.75	1.99
-358	2.01	2.69	11.29	20.27	5.74*	5.74*	10.55*	O/R*	O/R*	16.75	1.99
-359	2.01	2.73*	12.19	20.57*	5.79*	5.79*	10.75*	O/R*	O/R*	17.15*	2.04
-360	2.13	2.77	13.01	20.99	5.84*	5.84*	11.05*	O/R*	O/R*	17.14	2.11
-361	2.20	2.87	13.91	22.09*	5.89	5.89*	11.43*	O/R*	O/R*	17.15	2.18

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

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (362....409)

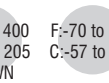
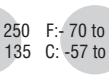
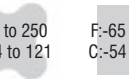
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-362	-362	6 1/4	6 5/8	3/16	6.225	0.040	0.210	0.005	0.700	158.120	1.020	5.330	0.130	2-362
2-363	-363	6 1/2	6 7/8	3/16	6.475	0.040	0.210	0.005	0.727	164.470	1.020	5.330	0.130	2-363
2-364	-364	6 3/4	7 1/8	3/16	6.725	0.040	0.210	0.005	0.755	170.820	1.020	5.330	0.130	2-364
2-365	-365	7	7 3/8	3/16	6.975	0.040	0.210	0.005	0.782	177.170	1.020	5.330	0.130	2-365
2-366	-366	7 1/4	7 5/8	3/16	7.225	0.045	0.210	0.005	0.809	183.520	1.140	5.330	0.130	2-366
2-367	-367	7 1/2	7 7/8	3/16	7.475	0.045	0.210	0.005	0.836	189.870	1.140	5.330	0.130	2-367
2-368	-368	7 3/4	8 1/8	3/16	7.725	0.045	0.210	0.005	0.863	196.220	1.140	5.330	0.130	2-368
2-369	-369	8	8 3/8	3/16	7.975	0.045	0.210	0.005	0.891	202.570	1.140	5.330	0.130	2-369
2-370	-370	8 1/4	8 5/8	3/16	8.225	0.050	0.210	0.005	0.918	208.920	1.270	5.330	0.130	2-370
2-371	-371	8 1/2	8 7/8	3/16	8.475	0.050	0.210	0.005	0.945	215.270	1.270	5.330	0.130	2-371
2-372	-372	8 3/4	9 1/8	3/16	8.725	0.050	0.210	0.005	0.972	221.620	1.270	5.330	0.130	2-372
2-373	-373	9	9 3/8	3/16	8.975	0.050	0.210	0.005	0.999	227.970	1.270	5.330	0.130	2-373
2-374	-374	9 1/4	9 5/8	3/16	9.225	0.055	0.210	0.005	1.027	234.320	1.400	5.330	0.130	2-374
2-375	-375	9 1/2	9 7/8	3/16	9.475	0.055	0.210	0.005	1.054	240.670	1.400	5.330	0.130	2-375
2-376	-376	9 3/4	10 1/8	3/16	9.725	0.055	0.210	0.005	1.081	247.020	1.400	5.330	0.130	2-376
2-377	-377	10	10 3/8	3/16	9.975	0.055	0.210	0.005	1.108	253.370	1.400	5.330	0.130	2-377
2-378	-378	10 1/2	10 7/8	3/16	10.475	0.060	0.210	0.005	1.163	266.070	1.520	5.330	0.130	2-378
2-379	-379	11	11 3/8	3/16	10.975	0.060	0.210	0.005	1.217	278.770	1.520	5.330	0.130	2-379
2-380	-380	11 1/2	11 7/8	3/16	11.475	0.065	0.210	0.005	1.272	291.470	1.650	5.330	0.130	2-380
2-381	-381	12	12 3/8	3/16	11.975	0.065	0.210	0.005	1.326	304.170	1.650	5.330	0.130	2-381
2-382	-382	13	13 3/8	3/16	12.975	0.065	0.210	0.005	1.435	329.570	1.650	5.330	0.130	2-382
2-383	-383	14	14 3/8	3/16	13.975	0.070	0.210	0.005	1.544	354.970	1.780	5.330	0.130	2-383
2-384	-384	15	15 3/8	3/16	14.975	0.070	0.210	0.005	1.652	380.370	1.780	5.330	0.130	2-384
2-385	-385	16	16 3/8	3/16	15.955	0.075	0.210	0.005	1.759	405.260	1.910	5.330	0.130	2-385
2-386	-386	17	17 3/8	3/16	16.955	0.080	0.210	0.005	1.868	430.660	2.030	5.330	0.130	2-386
2-387	-387	18	18 3/8	3/16	17.955	0.085	0.210	0.005	1.977	456.060	2.160	5.330	0.130	2-387
2-388	-388	19	19 3/8	3/16	18.955	0.090	0.210	0.005	2.085	481.410	2.290	5.330	0.130	2-388
2-389	-389	20	20 3/8	3/16	19.955	0.095	0.210	0.005	2.194	506.810	2.410	5.330	0.130	2-389
2-390	-390	21	21 3/8	3/16	20.955	0.095	0.210	0.005	2.303	532.210	2.410	5.330	0.130	2-390
2-391	-391	22	22 3/8	3/16	21.955	0.100	0.210	0.005	2.412	557.610	2.540	5.330	0.130	2-391
2-392	-392	23	23 3/8	3/16	22.940	0.105	0.210	0.005	2.519	582.680	2.670	5.330	0.130	2-392
2-393	-393	24	24 3/8	3/16	23.940	0.110	0.210	0.005	2.628	608.080	2.790	5.330	0.130	2-393
2-394	-394	25	25 3/8	3/16	24.940	0.115	0.210	0.005	2.737	633.480	2.920	5.330	0.130	2-394
2-395	-395	26	26 3/8	3/16	25.940	0.120	0.210	0.005	2.845	658.880	3.050	5.330	0.130	2-395
2-400	-400	1 3/8	1 7/8	1/4	1.350	0.012	0.275	0.006	0.301	34.290	0.305	6.985	0.152	2-400
2-401	-401	1 1/2	2	1/4	1.475	0.015	0.275	0.006	0.324	37.465	0.381	6.985	0.152	2-401
2-402	-402	1 5/8	2 1/8	1/4	1.600	0.015	0.275	0.006	0.348	40.640	0.381	6.985	0.152	2-402
2-403	-403	1 3/4	2 1/4	1/4	1.725	0.015	0.275	0.006	0.371	43.815	0.381	6.985	0.152	2-403
2-404	-404	1 7/8	2 3/8	1/4	1.850	0.015	0.275	0.006	0.394	46.990	0.381	6.985	0.152	2-404
2-405	-405	2	2 1/2	1/4	1.975	0.018	0.275	0.006	0.417	50.165	0.457	6.985	0.152	2-405
2-406	-406	2 1/8	2 5/8	1/4	2.100	0.018	0.275	0.006	0.441	53.340	0.457	6.985	0.152	2-406
2-407	-407	2 1/4	2 3/4	1/4	2.225	0.018	0.275	0.006	0.464	56.515	0.457	6.985	0.152	2-407
2-408	-408	2 3/8	2 7/8	1/4	2.350	0.018	0.275	0.006	0.487	59.690	0.457	6.985	0.152	2-408
2-409	-409	2 1/2	3	1/4	2.475	0.020	0.275	0.006	0.511	62.865	0.508	6.985	0.152	2-409

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (362....409)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-362	2.25	2.95	14.54	23.40	7.51*	7.51*	11.92*	O/R*	O/R*	17.47	2.29
-363	2.35	3.04	14.59	24.46*	7.61*	7.61*	12.32*	O/R*	O/R*	17.47	2.48
-364	2.44	3.16	14.66	24.59	8.33*	8.33*	13.32*	O/R*	O/R*	19.27	2.48
-365	2.56	3.63	15.06	25.61*	9.21*	9.21*	14.26	O/R*	O/R*	13.53	2.49*
-366	2.56	3.66	16.63	26.30*	9.33*	9.33*	14.36*	O/R*	O/R*	25.98	8.47
-367	2.56	3.68	17.87	27.11	9.42*	9.42*	14.46*	O/R*	O/R*	25.98	2.39
-368	2.56	3.92	18.61	27.61*	9.52*	9.52*	15.82*	O/R*	O/R*	26.46	2.44
-369	2.85	4.35	19.12	29.11*	9.62*	9.62*	16.32*	O/R*	O/R*	27.21	15.41
-370	3.16	4.38	19.40	29.62*	9.76*	9.76*	16.71*	42.88*	O/R*	26.27	2.95
-371	3.30	4.45	20.44	30.12*	9.86*	9.86*	17.29*	O/R*	O/R*	38.53*	2.99
-372	3.35	4.50	21.00	30.62*	9.99*	9.99*	17.58	O/R*	O/R*	38.53	3.06*
-373	3.65	4.71	21.20	31.62*	10.08*	10.08*	17.88*	O/R*	O/R*	36.54	3.12*
-374	3.73	4.87	21.38	32.12*	10.45*	10.45*	18.08*	O/R*	O/R*	34.71*	3.17*
-375	3.78	5.05	22.78	33.12*	10.77*	10.77*	18.27*	O/R*	O/R*	34.71*	3.23*
-376	3.84	5.52	24.00	33.62*	10.87*	10.87*	18.47*	O/R*	O/R*	40.44*	3.85*
-377	3.84	5.69	25.01	35.14*	11.11*	11.11*	20.02*	O/R*	O/R*	38.52	O/R
-378	4.87	6.27	27.68	39.16*	18.81*	18.81*	30.21*	O/R*	O/R*	39.50*	O/R*
-379	5.18	6.67	29.65	42.17*	20.44*	20.44*	30.83*	O/R*	O/R*	39.84*	O/R
-380	5.30	6.73	29.69	47.19*	20.60*	20.60*	31.17*	O/R*	O/R*	40.90*	O/R*
-381	5.49	7.08	31.21	48.19*	20.91*	20.91*	31.70*	O/R*	O/R*	41.82*	O/R*
-382	5.49	7.27	32.19	54.72*	27.10*	27.10*	50.18*	O/R*	38.56*	44.92	O/R*
-383	7.32	7.49	33.85	61.24*	27.43*	27.43*	50.71*	O/R*	O/R*	49.29*	O/R*
-384	7.32	7.59	35.55	62.24*	27.79*	27.79*	51.25*	O/R*	O/R*	50.04	O/R*
-385	8.55	7.79	37.30	66.25*	28.24*	28.24*	51.75*	O/R*	O/R*	52.80*	O/R*
-386	9.14	7.81	39.52	69.27*	30.10*	30.10*	52.53*	O/R*	O/R*	56.48	O/R*
-387	10.36	8.51	44.22*	70.27*	31.25*	31.25*	53.11*	O/R*	O/R*	48.22*	O/R*
-388	10.67	10.20*	46.36*	71.29*	33.54*	33.54*	53.68*	O/R*	O/R*	61.33*	O/R*
-389	10.67	10.82*	47.35	71.79*	35.84*	35.84*	54.70*	O/R*	O/R*	64.15*	O/R*
-390	10.67	11.85*	48.38	73.29*	38.71*	38.71*	55.10*	O/R*	O/R*	69.21*	O/R*
-391	10.97	13.84*	50.44*	82.32*	41.01*	41.01*	55.90*	O/R*	O/R*	74.08*	O/R*
-392	10.97	15.87*	51.86	87.33*	43.31*	43.31*	59.90*	O/R*	O/R*	O/R*	O/R*
-393	17.67	17.02*	43.11*	94.87*	45.73*	45.73*	63.92*	O/R*	O/R*	O/R*	O/R*
-394	17.69*	19.16*	60.99*	96.88*	48.03*	48.03*	67.92*	O/R*	O/R*	O/R*	O/R*
-395	19.51	20.70	60.91	102.40*	49.90*	49.90*	71.92*	O/R*	O/R*	O/R*	O/R*
-401	2.89	0.74*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-402	2.90	0.74*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-402	3.02	0.79*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-403	3.02	0.91*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-404	3.06	0.97*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-405	3.11	1.02*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-406	3.15	1.06*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-407	3.21	1.06*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-408	3.26	1.14*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-409	3.32	1.25*	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**

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (410....453)

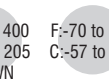
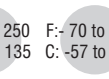
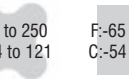
Reference Number	AS 568A Uniform Dash Number	NOMINAL SIZE Inches			STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Basic Volume (Cu.In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-410	-410	2 5/8	3 1/8	1/4	2.600	0.020	0.275	0.006	0.534	66.040	0.508	6.985	0.152	2-410
2-411	-411	2 3/4	3 1/4	1/4	2.725	0.020	0.275	0.006	0.557	69.215	0.508	6.985	0.152	2-411
2-412	-412	2 7/8	3 3/8	1/4	2.850	0.020	0.275	0.006	0.581	72.390	0.508	6.985	0.152	2-412
2-413	-413	3	3 1/2	1/4	2.975	0.024	0.275	0.006	0.604	75.565	0.610	6.985	0.152	2-413
2-414	-414	3 1/8	3 5/8	1/4	3.100	0.024	0.275	0.006	0.627	78.740	0.610	6.985	0.152	2-414
2-415	-415	3 1/4	3 3/4	1/4	3.225	0.024	0.275	0.006	0.651	81.915	0.610	6.985	0.152	2-415
2-416	-416	3 3/8	3 7/8	1/4	3.350	0.024	0.275	0.006	0.674	85.090	0.610	6.985	0.152	2-416
2-417	-417	3 1/2	4	1/4	3.475	0.024	0.275	0.006	0.697	88.265	0.610	6.985	0.152	2-417
2-418	-418	3 5/8	4 1/8	1/4	3.600	0.028	0.275	0.006	0.721	91.440	0.711	6.985	0.152	2-418
2-419	-419	3 3/4	4 1/4	1/4	3.725	0.028	0.275	0.006	0.744	94.615	0.711	6.985	0.152	2-419
2-420	-420	3 7/8	4 3/8	1/4	3.850	0.028	0.275	0.006	0.767	97.790	0.711	6.985	0.152	2-420
2-421	-421	4	4 1/2	1/4	3.975	0.028	0.275	0.006	0.791	100.965	0.711	6.985	0.152	2-421
2-422	-422	4 1/8	4 5/8	1/4	4.100	0.028	0.275	0.006	0.814	104.140	0.711	6.985	0.152	2-422
2-423	-423	4 1/4	4 3/4	1/4	4.225	0.030	0.275	0.006	0.837	107.315	0.762	6.985	0.152	2-423
2-424	-424	4 3/8	4 7/8	1/4	4.350	0.030	0.275	0.006	0.861	110.490	0.762	6.985	0.152	2-424
2-425	-425	4 1/2	5	1/4	4.475	0.033	0.275	0.006	0.886	113.670	0.840	6.990	0.150	2-425
2-426	-426	4 5/8	5 1/8	1/4	4.600	0.033	0.275	0.006	0.910	116.840	0.840	6.990	0.150	2-426
2-427	-427	4 3/4	5 1/4	1/4	4.725	0.033	0.275	0.006	0.933	120.020	0.840	6.990	0.150	2-427
2-428	-428	4 7/8	5 3/8	1/4	4.850	0.033	0.275	0.006	0.956	123.190	0.840	6.990	0.150	2-428
2-429	-429	5	5 1/2	1/4	4.975	0.037	0.275	0.006	0.980	126.370	0.940	6.990	0.150	2-429
2-430	-430	5 1/8	5 5/8	1/4	5.100	0.037	0.275	0.006	1.003	129.540	0.940	6.990	0.150	2-430
2-431	-431	5 1/4	5 3/4	1/4	5.225	0.037	0.275	0.006	1.026	132.720	0.940	6.990	0.150	2-431
2-432	-432	5 3/8	5 7/8	1/4	5.350	0.037	0.275	0.006	1.050	135.890	0.940	6.990	0.150	2-432
2-433	-433	5 1/2	6	1/4	5.475	0.037	0.275	0.006	1.073	139.070	0.940	6.990	0.150	2-433
2-434	-434	5 5/8	6 1/8	1/4	5.600	0.037	0.275	0.006	1.096	142.240	0.940	6.990	0.150	2-434
2-435	-435	5 3/4	6 1/4	1/4	5.725	0.037	0.275	0.006	1.120	145.420	0.940	6.990	0.150	2-435
2-436	-436	5 7/8	6 3/8	1/4	5.850	0.037	0.275	0.006	1.143	148.590	0.940	6.990	0.150	2-436
2-437	-437	6	6 1/2	1/4	5.975	0.037	0.275	0.006	1.166	151.770	0.940	6.990	0.150	2-437
2-438	-438	6 1/4	6 3/4	1/4	6.225	0.040	0.275	0.006	1.213	158.120	1.020	6.990	0.150	2-438
2-439	-439	6 1/2	7	1/4	6.475	0.040	0.275	0.006	1.260	164.470	1.020	6.990	0.150	2-439
2-440	-440	6 3/4	7 1/4	1/4	6.725	0.040	0.275	0.006	1.306	170.820	1.020	6.990	0.150	2-440
2-441	-441	7	7 1/2	1/4	6.975	0.040	0.275	0.006	1.353	177.170	1.020	6.990	0.150	2-441
2-442	-442	7 1/4	7 3/4	1/4	7.225	0.045	0.275	0.006	1.400	183.520	1.140	6.990	0.150	2-442
2-443	-443	7 1/2	8	1/4	7.475	0.045	0.275	0.006	1.446	189.870	1.140	6.990	0.150	2-443
2-444	-444	7 3/4	8 1/4	1/4	7.725	0.045	0.275	0.006	1.493	196.220	1.140	6.990	0.150	2-444
2-445	-445	8	8 1/2	1/4	7.975	0.045	0.275	0.006	1.539	202.570	1.140	6.990	0.150	2-445
2-446	-446	8 1/2	9	1/4	8.475	0.055	0.275	0.006	1.633	215.270	1.400	6.990	0.150	2-446
2-447	-447	9	9 1/2	1/4	8.975	0.055	0.275	0.006	1.726	227.970	1.400	6.990	0.150	2-447
2-448	-448	9 1/2	10	1/4	9.475	0.055	0.275	0.006	1.819	240.670	1.400	6.990	0.150	2-448
2-449	-449	10	10 1/2	1/4	9.975	0.055	0.275	0.006	1.913	253.370	1.400	6.990	0.150	2-449
2-450	-450	10 1/2	11	1/4	10.475	0.060	0.275	0.006	2.006	266.070	1.520	6.990	0.150	2-450
2-451	-451	11	11 1/2	1/4	10.975	0.060	0.275	0.006	2.099	278.770	1.520	6.990	0.150	2-451
2-452	-452	11 1/2	12	1/4	11.475	0.060	0.275	0.006	2.193	291.470	1.520	6.990	0.150	2-452
2-453	-453	12	12 1/2	1/4	11.975	0.060	0.275	0.006	2.286	304.170	1.520	6.990	0.150	2-453

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (410....453)

PRICING TABLE

	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 450 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	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
-410	3.37	1.28*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	4.10*
-411	3.44	1.33*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	4.10
-412	3.46	1.39*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-413	3.48	1.42*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-414	3.54	1.53*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	4.49*
-415	3.61	1.58*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-416	3.64	1.63*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-417	3.70	1.68*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-418	3.75	1.73*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-419	3.79	1.76*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	4.10*
-420	3.83	2.03*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-421	3.91	2.07	11.62	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*
-422	3.98	2.13*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	7.52
-423	4.06	2.16*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	4.28*
-424	4.17	2.17*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	O/R*	4.80
-425	1.52	2.19	11.41	21.58	5.72	5.72*	9.91*	58.00	25.67*	9.37	2.42
-426	1.52	2.25	11.48	23.08*	5.79*	5.79*	10.02*	59.35*	25.84*	9.37*	2.42
-427	1.52	2.28	11.73*	24.10*	5.85*	5.85*	10.10*	60.70*	28.26*	9.37	2.42
-428	1.64	2.38	12.60	24.60*	5.90*	5.90*	10.21*	62.05*	28.74*	9.37*	2.42
-429	1.71	2.40	12.88	26.10	5.95*	5.95*	10.30*	63.40	31.08*	10.41	2.42
-430	1.71	2.50	12.96	26.60*	6.67*	6.67*	11.92*	65.49*	31.49*	10.41	2.42
-431	1.95	2.51	13.27	27.60*	6.72*	6.72*	12.01*	66.10	33.75*	10.41	2.42
-432	1.98	2.67	13.43	28.11*	6.79*	6.79*	12.12*	67.45*	34.71*	11.50*	2.44
-433	1.98	2.71	14.03	29.11	6.83	6.83*	12.21*	68.80	37.22*	11.50	2.46
-434	2.01	2.77	14.30	29.61*	6.88*	6.88*	12.31*	70.15*	38.60*	11.70*	2.46
-435	2.13	2.81	14.48	30.11*	6.98*	6.98*	12.41	71.51*	38.76*	11.70	2.63
-436	2.13	2.91	15.81*	31.11*	7.00*	7.00*	12.52*	72.85	38.76*	11.70	2.72
-437	2.31	3.21	15.21	31.61*	8.62*	8.62*	15.62*	74.21*	38.76*	12.20	2.96
-438	2.44	3.29	15.77	32.13*	8.73*	8.73*	15.83*	76.91*	39.96*	12.20	3.08
-439	2.56	3.45	16.52	33.13	8.83	8.83*	16.04*	79.61	40.22*	12.20	3.27
-440	2.74	3.47	17.04	34.13*	9.25*	9.25*	16.23*	82.31*	41.18*	13.25	3.48
-441	2.98	3.79	18.23	35.63	10.76*	10.76*	20.82*	85.01	45.59*	13.25	3.71
-442	3.05	4.00	19.84	37.15	10.93*	10.93*	21.02*	87.71*	49.66*	13.25*	3.79
-443	3.16	4.27	21.03	38.64	11.06*	11.06*	21.22*	90.41	49.74*	14.32	3.90
-444	3.35	4.42	21.80	40.14*	11.27*	11.27*	21.41*	93.11*	51.60*	16.88	3.97
-445	3.49	4.64	22.37	42.16	11.40*	11.40*	27.13*	95.81*	52.49*	19.55	3.97
-446	3.59	4.85	23.52	43.16*	11.85*	11.85*	27.13*	101.22*	54.51*	21.35	4.31
-447	3.78	4.95	24.55	44.18	12.09*	12.09*	29.20*	106.62*	62.99*	21.35	4.77
-448	3.78	5.08	25.64	45.68	12.40*	12.40*	29.20*	112.02	64.50*	34.64	6.30
-449	3.78	5.88	27.66	48.69	12.80*	12.80*	23.14*	117.42*	70.74*	38.79	13.76
-450	4.57	7.13	29.86	51.19*	22.42*	22.42*	41.59*	122.83	78.96*	38.79	24.89
-451	4.76	7.66	30.40	55.21	23.70*	23.70*	41.97*	126.11*	O/R*	37.33*	30.89
-452	5.18	10.04	31.71	57.21	24.48*	24.48*	42.37*	133.63*	O/R*	39.71	31.05
-453	5.49	10.39	32.83	61.24	24.99*	24.99*	42.76*	139.03*	O/R*	41.02	31.20

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

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

SERIES 2-XXX O-RINGS
CROSS REFERENCE TABLE (454....475)

Reference 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				Reference Number
		ID	OD	W	ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
2-454	-454	12 1/2	13	1/4	12.475	0.060	0.275	0.006	2.379	316.870	1.520	6.990	0.150	2-454
2-455	-455	13	13 1/2	1/4	12.975	0.060	0.275	0.006	2.472	329.570	1.520	6.990	0.150	2-455
2-456	-456	13 1/2	14	1/4	13.475	0.070	0.275	0.006	2.566	342.270	1.780	6.990	0.150	2-456
2-457	-457	14	14 1/2	1/4	13.975	0.070	0.275	0.006	2.659	654.970	1.780	6.990	0.150	2-457
2-458	-458	14 1/2	15	1/4	14.475	0.070	0.275	0.006	2.752	367.670	1.780	6.990	0.150	2-458
2-459	-459	15	15 1/2	1/4	14.975	0.070	0.275	0.006	2.846	380.370	1.780	6.990	0.150	2-459
2-460	-460	15 1/2	16.00	1/4	15.475	0.070	0.275	0.006	2.939	393.070	1.780	6.990	0.150	2-460
2-461	-461	16	16 1/2	1/4	15.955	0.075	0.275	0.006	3.029	405.260	1.910	6.990	0.150	2-461
2-462	-462	16 1/2	17	1/4	16.455	0.075	0.275	0.006	3.122	417.960	1.910	6.990	0.150	2-462
2-463	-463	17	17 1/2	1/4	16.955	0.080	0.275	0.006	3.215	430.660	2.030	6.990	0.150	2-463
2-464	-464	17 1/2	18	1/4	17.455	0.085	0.275	0.006	3.308	443.360	2.160	6.990	0.150	2-464
2-465	-465	18	18 1/2	1/4	17.955	0.085	0.275	0.006	3.402	456.060	2.160	6.990	0.150	2-465
2-466	-466	18 1/2	19	1/4	18.455	0.085	0.275	0.006	3.495	468.760	2.160	6.990	0.150	2-466
2-467	-467	19	19 1/2	1/4	18.955	0.090	0.275	0.006	3.588	481.460	2.290	6.990	0.150	2-467
2-468	-468	19 1/2	20	1/4	19.455	0.090	0.275	0.006	3.682	494.160	2.290	6.990	0.150	2-468
2-469	-469	20	20 1/2	1/4	19.955	0.095	0.275	0.006	3.775	506.860	2.410	6.990	0.150	2-469
2-470	-470	21.00	21 1/2	1/4	20.955	0.095	0.275	0.006	3.962	532.260	2.410	6.990	0.150	2-470
2-471	-471	22	22 1/2	1/4	21.955	0.100	0.275	0.006	4.148	557.660	2.540	6.990	0.150	2-471
2-472	-472	23	23 1/2	1/4	22.940	0.105	0.275	0.006	4.332	582.680	2.670	6.990	0.150	2-472
2-473	-473	24	24 1/2	1/4	23.940	0.110	0.275	0.006	4.519	608.080	2.790	6.990	0.150	2-473
2-474	-474	25	25 1/2	1/4	24.940	0.115	0.275	0.006	4.705	633.480	2.920	6.990	0.150	2-474
2-475	-475	26	26 1/2	1/4	25.940	0.120	0.275	0.006	4.892	658.880	3.050	6.990	0.150	2-475

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

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

SERIES 2-XXX O-RINGS (454....475)

PRICING TABLE

Ref. Dash Number	NBR70A N70 2-XXX/N70 $	NBR90A N90 2-XXX/N90 $	FPM75A V75 2-XXX/V75 $	FPM90A V90 2-XXX/V90B $	EPDM70A E70 2-XXX/E70 $	EPDM80A E80 2-XXX/E80 $	SILICONE S70 2-XXX/S70 $	AU90A U90 2-XXX/U90 $	V.PTFE V.PTFE 2-XXX/TF $	NBR70A Q.RING 4-XXX/QN70 $	NBR70A TETRASEAL TS-XXX $
	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 450 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
-454	5.79	10.47	34.09	63.24*	28.41*	28.41*	63.13*	144.43*	O/R*	54.66	31.29
-455	7.32	10.57	35.28	65.76*	28.64*	28.64*	63.63*	149.84*	O/R*	41.02*	32.36
-456	7.32	10.68	35.40	68.76*	28.90*	28.90*	64.15*	155.24*	O/R*	41.18*	33.93
-457	7.32	10.87	37.64	71.77	29.15*	29.15*	64.68	160.53*	O/R*	41.52*	37.15
-458	7.32	11.04	38.09	75.79	29.41*	29.41*	65.18*	166.04*	O/R*	41.62	39.73*
-459	7.57	11.15	39.52	79.31*	29.67*	29.67	65.70*	171.44*	O/R*	53.86*	52.41
-460	7.92	11.42	40.14	82.32*	29.93*	29.93*	66.20*	172.36	O/R*	69.17	O/R*
-461	8.84	13.09	47.86	85.84	30.18*	30.18*	66.69*	O/R*	O/R*	79.13*	55.90
-462	9.14	13.25	50.99*	90.36*	30.47*	30.47*	67.21*	O/R*	O/R*	88.61	O/R*
-463	9.75	13.46	54.03*	94.37*	30.83*	30.83*	67.71*	O/R*	O/R*	89.41*	O/R*
-464	10.36	13.63	55.73	96.37	31.23*	31.23*	68.23*	O/R*	O/R*	82.04	O/R*
-465	11.58	14.45	57.60	101.39*	32.68*	32.68*	68.76*	O/R*	O/R*	91.36	O/R*
-466	11.58	14.78	58.39	105.40*	34.75*	34.75*	69.30*	O/R*	O/R*	92.62*	O/R*
-467	11.58	15.37	60.81	107.92*	35.09*	35.09*	69.81*	O/R*	O/R*	99.24*	62.00
-468	12.19	15.97	62.14*	112.94	35.84*	35.84*	71.71*	O/R*	O/R*	93.61*	O/R*
-469	12.18	16.56	62.34	115.45*	37.42*	37.42*	71.86*	O/R*	O/R*	107.27*	O/R*
-470	12.39	17.46	67.90	117.95	39.72*	39.72*	73.25*	O/R*	O/R*	115.97*	O/R*
-471	12.39	18.40	59.96	122.98*	42.15*	42.15*	74.64*	O/R*	O/R*	125.31*	O/R*
-472	12.67	22.49	72.96	125.48*	44.58*	44.58*	76.01*	O/R*	O/R*	O/R*	O/R*
-473	12.59	24.22	76.21	130.50*	46.73*	46.73*	77.39*	O/R*	O/R*	O/R*	O/R*
-474	12.73	25.74	85.70	135.53*	49.18*	49.18*	78.78*	O/R*	O/R*	O/R*	O/R*
-475	12.86	26.06	88.98	145.56*	50.61*	50.61*	80.19*	O/R*	O/R*	115.97*	O/R*

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

NOTE: ACTUAL TETRASEAL DIMENSIONS ARE NOT IN ACCORDANCE WITH AS568A SPECIFICATIONS

O-Ring Boss Gaskets 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 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

3-XXX SERIES O'RINGS - CROSS REFERENCE TABLE

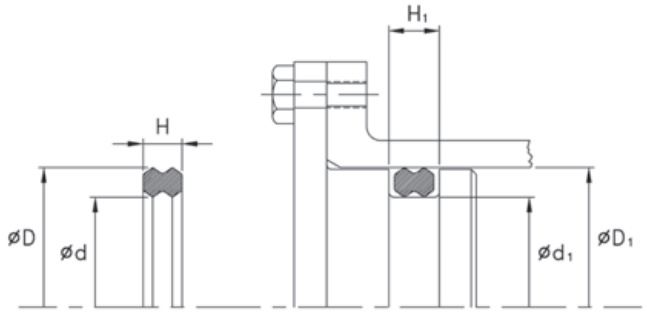
Reference Number	AS 568A Uniform Dash Number	Tube OD	STANDARD-O-RING-SIZE Inches Actual Per AS 568A				Cross Section Area (Sq. In.)	METRIC-O-RING SIZE Milimeters Actual Per AS 568A				Reference Number
			ID	Tolerance +/-	W	Tolerance +/-		ID	Tolerance +/-	W	Tolerance +/-	
3-901	-901	3/32	0.185	0.005	0.056	0.003	0.0025	4.70	0.13	1.42	0.08	3-901
3-902	-902	1/8	0.239	0.005	0.064	0.003	0.0032	6.07	0.13	1.63	0.08	3-902
3-903	-903	3/16	0.301	0.005	0.064	0.003	0.0032	7.65	0.13	1.63	0.08	3-903
3-904	-904	1/4	0.351	0.005	0.072	0.003	0.0041	8.92	0.13	1.83	0.08	3-904
3-905	-905	5/16	0.414	0.005	0.072	0.003	0.0041	10.52	0.13	1.83	0.08	3-905
3-906	-906	3/8	0.468	0.005	0.078	0.003	0.0048	11.89	0.13	1.98	0.08	3-906
3-907	-907	7/16	0.530	0.007	0.082	0.003	0.0053	13.46	0.18	2.08	0.08	3-907
3-908	-908	1/2	0.644	0.009	0.087	0.003	0.0059	16.36	0.23	2.21	0.08	3-908
3-909	-909	9/16	0.706	0.009	0.097	0.003	0.0074	17.93	0.23	2.46	0.08	3-909
3-910	-910	5/8	0.755	0.009	0.097	0.003	0.0074	19.18	0.23	2.46	0.08	3-910
3-911	-911	11/16	0.863	0.009	0.116	0.004	0.0106	21.92	0.23	2.95	0.10	3-911
3-912	-912	3/4	0.924	0.009	0.116	0.004	0.0106	23.47	0.23	2.95	0.10	3-912
3-913	-913	13/16	0.986	0.010	0.116	0.004	0.0106	25.04	0.26	2.95	0.10	3-913
3-914	-914	7/8	1.047	0.010	0.116	0.004	0.0106	26.59	0.26	2.95	0.10	3-914
3-916	-916	1	1.171	0.010	0.116	0.004	0.0106	29.74	0.26	2.95	0.10	3-916
3-918	-918	1 1/8	1.355	0.012	0.116	0.004	0.0106	34.42	0.30	2.95	0.10	3-918
3-920	-920	1 1/4	1.475	0.014	0.118	0.004	0.0109	37.47	0.36	3.00	0.10	3-920
3-924	-924	1 1/2	1.720	0.014	0.118	0.004	0.0109	43.69	0.36	3.00	0.10	3-924
3-928	-928	1 3/4	2.090	0.018	0.118	0.004	0.0109	53.09	0.46	3.00	0.10	3-928
3-932	-932	2	2.337	0.018	0.118	0.004	0.0109	59.36	0.46	3.00	0.10	3-932

	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
Ref. Dash Number	NBR70A N70 3-XXX/N70 $	NBR90A N90 3-XXX/N90 $	FMP75A V75 3-XXX/V75 $	FMP90A V90 3-XXX/V90B $	EPDM70A E70 3-XXX/E70 $	SILICONE S70 3-XXX/S70 $	AU90A U90 3-XXX/U90 $	V.PTFE TF 3-XXX/TF
3-901	0.03*	0.11	0.36*	0.64	0.05*	0.10	4.00*	O/R*
3-902	0.05	0.11	0.40*	0.73	0.05	0.10	4.20*	0.95*
3-903	0.05*	0.11	0.42*	0.74	0.05	0.10*	4.29*	1.04*
3-904	0.05	0.17	0.46	0.77	0.05	0.11*	4.39*	1.07*
3-905	0.05*	0.17	0.47*	0.79	0.06	0.12*	4.48*	1.10*
3-906	0.05	0.17	0.62	0.83	0.07	0.14*	4.77*	1.18*
3-907	0.07	0.17	0.75	0.87	0.07*	0.15*	4.96*	1.52*
3-908	0.10	0.18	0.82	0.97	0.09	0.18	5.15*	1.56*
3-909	0.10*	0.18	1.03	1.23	0.10	0.21*	5.34*	1.79*
3-910	0.10	0.19	1.12	1.33	0.11	0.23*	5.63*	2.01*
3-911	0.11*	0.20	1.69	1.55	0.18*	0.36*	5.82*	O/R*
3-912	0.16	0.23	1.82	1.76	0.19	0.38*	6.10*	2.01*
3-913	0.18*	0.25	2.14	1.66	0.19*	0.39*	6.48*	O/R*
3-914	0.19	0.28	2.31	2.21	0.22	0.44*	6.67*	O/R*
3-916	0.22	0.30	2.46	2.37	0.24	0.49*	6.86*	2.62*
3-918	0.25*	0.34	2.63*	2.47	0.27*	0.55*	7.06*	O/R*
3-920	0.27	0.39	2.74	2.89	0.28	0.56*	7.34*	3.86*
3-924	0.30*	0.55	3.17	4.06	0.34	0.68*	7.53*	4.31*
3-928	0.44*	0.67	3.88*	4.95	0.42*	0.85*	8.10*	4.78*
3-932	0.45*	0.74	4.26*	5.46	0.52	1.06*	7.46*	5.66*

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

Head Seals

Polyurethane AU 92A



Temperature: -30/212F [-22/100C] **Pressure: 10000 PSI** **Static**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
HS2-228*	2.500	+.002/-.000	2.500	2.250	0.187	2.500	+.002/-.000	2.278	+.000/-.002	0.208	+.005/-.000	11.41
HS2-230*	2.750	+.002/-.000	2.750	2.500	0.187	2.750	+.002/-.000	2.528	+.000/-.002	0.208	+.005/-.000	11.41
HS2-232*	3.000	+.002/-.000	3.000	2.750	0.187	3.000	+.002/-.000	2.778	+.000/-.002	0.208	+.005/-.000	13.02
HS2-234*	3.250	+.002/-.000	3.250	3.000	0.187	3.250	+.002/-.000	3.028	+.000/-.002	0.208	+.005/-.000	13.02
HS2-235*	3.375	+.002/-.000	3.375	3.125	0.187	3.375	+.002/-.000	3.153	+.000/-.002	0.208	+.005/-.000	13.02
HS2-236*	3.500	+.002/-.000	3.500	3.250	0.187	3.500	+.002/-.000	3.278	+.000/-.002	0.208	+.005/-.000	13.02
HS2-238	3.750	+.002/-.000	3.750	3.500	0.187	3.750	+.002/-.000	3.528	+.000/-.002	0.208	+.005/-.000	13.02
HS2-240	4.000	+.002/-.000	4.000	3.750	0.187	4.000	+.002/-.000	3.778	+.000/-.002	0.208	+.005/-.000	16.59
HS2-242*	4.250	+.002/-.000	4.250	4.000	0.187	4.250	+.002/-.000	4.028	+.000/-.002	0.208	+.005/-.000	16.59
HS2-244*	4.500	+.002/-.000	4.500	4.250	0.187	4.500	+.002/-.000	4.278	+.000/-.002	0.208	+.005/-.000	16.59
HS2-246*	4.750	+.002/-.000	4.750	4.500	0.187	4.750	+.002/-.000	4.528	+.000/-.002	0.208	+.005/-.000	18.43
HS2-248	5.000	+.002/-.000	5.000	4.750	0.187	5.000	+.002/-.000	4.778	+.000/-.002	0.208	+.005/-.000	18.43
HS2-250	5.250	+.002/-.000	5.250	5.000	0.187	5.250	+.002/-.000	5.028	+.000/-.004	0.208	+.005/-.000	18.43
HS2-251	5.375	+.002/-.000	5.375	5.125	0.187	5.375	+.002/-.000	5.153	+.000/-.004	0.208	+.005/-.000	18.43
HS2-252	5.500	+.002/-.000	5.500	5.250	0.187	5.500	+.002/-.000	5.278	+.000/-.004	0.208	+.005/-.000	18.43
HS2-254*	5.750	+.002/-.000	5.750	5.500	0.187	5.750	+.002/-.000	5.528	+.000/-.004	0.208	+.005/-.000	27.24
HS2-256*	6.000	+.002/-.000	6.000	5.750	0.187	6.000	+.002/-.000	5.778	+.000/-.004	0.208	+.005/-.000	27.24
HS2-259*	6.500	+.002/-.000	6.500	6.250	0.187	6.500	+.002/-.000	6.278	+.000/-.004	0.208	+.005/-.000	27.24
HS2-338*	3.500	+.002/-.000	3.500	3.125	0.281	3.500	+.002/-.000	3.160	+.000/-.004	0.311	+.005/-.000	17.91
HS2-342*	4.000	+.002/-.000	4.000	3.625	0.281	4.000	+.002/-.000	3.660	+.000/-.004	0.311	+.005/-.000	17.91
HS2-344*	4.250	+.002/-.000	4.250	3.875	0.281	4.250	+.002/-.000	3.910	+.000/-.004	0.311	+.005/-.000	17.91
HS2-346*	4.500	+.002/-.000	4.500	4.125	0.281	4.500	+.002/-.000	4.160	+.000/-.004	0.311	+.005/-.000	17.91
HS2-348*	4.750	+.002/-.000	4.750	4.375	0.281	4.750	+.002/-.000	4.410	+.000/-.004	0.311	+.005/-.000	18.43
HS2-350*	5.000	+.002/-.000	5.000	4.625	0.281	5.000	+.002/-.000	4.660	+.000/-.004	0.311	+.005/-.000	18.43
HS2-352*	5.250	+.002/-.000	5.250	4.875	0.281	5.250	+.002/-.000	4.910	+.000/-.004	0.311	+.005/-.000	18.43
HS2-353*	5.375	+.002/-.000	5.375	5.000	0.281	5.375	+.002/-.000	5.035	+.000/-.004	0.311	+.005/-.000	18.43
HS2-354*	5.500	+.002/-.000	5.500	5.125	0.281	5.500	+.002/-.000	5.160	+.000/-.004	0.311	+.005/-.000	18.43
HS2-356*	5.750	+.002/-.000	5.750	5.375	0.281	5.750	+.002/-.000	5.410	+.000/-.004	0.311	+.005/-.000	27.94
HS2-358*	6.000	+.002/-.000	6.000	5.625	0.281	6.000	+.002/-.000	5.660	+.000/-.004	0.311	+.005/-.000	27.94
HS2-360*	6.250	+.002/-.000	6.250	5.875	0.281	6.250	+.002/-.000	5.910	+.000/-.004	0.311	+.005/-.000	27.94

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

O'RING KITS AND ACCESSORIES

COMPACT SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-C-E70*	ETHYLENE PROPYLENE 70	382	30	88.12
ORK-C-N70	NITRILE 70	382	30	36.26
ORK-C-N90	NITRILE 90	382	30	68.14
ORK-C-S70*	SILICONE 70	382	30	188.01
ORK-C-V75B	FLUOROCARBON 75 (BROWN)	382	30	286.71
ORK-C-V90B	FLUOROCARBON 90 (BROWN)	382	30	323.56
QRK-C-N70	NITRILE 70	382	30	178.61

INDUSTRIAL SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-IND-N70	NITRILE 70	436	36	43.70
ORK-IND-N90	NITRILE 90	436	36	62.24
ORK-IND-PTFE	VIRGIN PTFE	325	36	564.36
ORK-IND-V75	FLUOROCARBON 75	436	36	261.86
QRK-IND-N70	NITRILE 70	226	36	103.12

WAREHOUSE SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-WHSE-E70*	ETHYLENE PROPYLENE 70	1110	150	675.07
ORK-WHSE-N70*	NITRILE 70	1110	150	524.01
ORK-WHSE-N90	NITRILE 90	1110	150	491.18
ORK-WHSE-S70*	SILICONE 70	1110	150	884.26
ORK-WHSE-V75B	FLUOROCARBON 75 (BROWN)	1110	150	781.41
ORK-WHSE-V90B	FLUOROCARBON 90 (BROWN)	1110	150	1114.31
QRK-WHSE-N70*	NITRILE 70	1010	130	566.56

BOSS SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-BOSS-N90	NITRILE 90	250	12	37.25
ORK-BOSS-N90D	NITRILE 90	212	20	64.67
ORK-BOSS-V90D	FLUOROCARBON 90(BROWN)	212	20	190.85

BACK-UP RING

Ref. Number	Material	Total Qty	Sizes	$
BURK-N90C	NITRILE 90	325	36	81.83
BURK-ST/T	VIRGIN PTFE	325	36	186.58

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FLAT FACE SEAL SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-ORS-N90	NITRILE 90	140	8	24.23
ORK-ORS-V90B	FLUOROCARBON 90 (BROWN)	140	8	94.46

SAE 4-BOLTS FLANGE SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-ORF-N90	NITRILE 90	50	8	28.73
SAE-SFS-KIT	POLYURETHANE 95	40	8	104.74

OSK SERIES

Ref. Number	Material	$
OSK100-NBR	O-RING SPLICING KIT - NBR 70	58.48
OSK100-FPM	O-RING SPLICING KIT - FPM 75	272.01

FITTING

Ref. Number	Material	Total Qty	Sizes	$
ORK-FITTING-N90	HOSE END AND ADAPTER KIT	216	27	151.21

ACCESSORIES

Ref. Number	Material	Total Qty	Sizes	$
ORING-ET-500*	EXTRACTION TOOLS			28.82
ORING-ET72000408*	MACHINIST SCIBE			20.90
ORING-MHS100*	MINI ORING PICK SET			47.35
ORING-GAUGE/MD-999*	MEASURING GAUGE			108.06
ORING-GAUGE/SC600	SIZING CONE AND TAPE			81.01
ORING-GAUGE/SC600-XL*	SIZING CONE			280.96

O-LUBE

Ref. Number	Material	$
OL884-.50	O'LUBE 0.50 OZ.	11.46
OL400	O'LUBE 4.00 OZ.	24.01
OL401	SUPER O'LUBE 2.00 OZ.	54.42

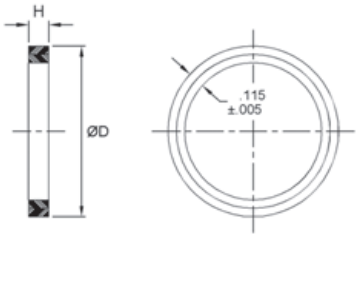
RETAINING RING

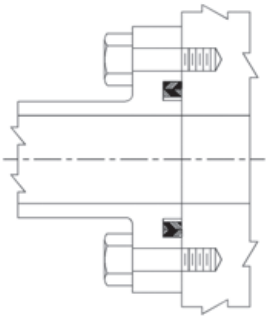
Ref. Number	Material	Total Qty	Sizes	$
SRK-N1300*	INTERNAL - R.R KIT	475	18	182.47
SRK-N1400*	EXTERNAL - R.R KIT	490	18	182.47
SRK-N1300/N1400*	INTERNAL/EXTERNAL - R.R KIT	410	34	235.88

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

Flange Seal

Polyurethane AU





Temperature: -40/220F [-40/105C] **Pressure: 3000 PSI [207 Bar]**

Ref.Number	SAE Flange Size	Nominal Seal Dimensions			References		$
		d	D	H	Flange Dash Size	Replaces O-Ring	
SFS-8	0.500	0.775	1.005	0.130	-08	-210	2.48
SFS-12	0.750	1.025	1.255	0.130	-12	-214	2.60
SFS-16	1.000	1.335	1.565	0.130	-16	-219	2.95
SFS-20	1.250	1.525	1.755	0.130	-20	-222	3.20
SFS-24	1.500	1.895	2.125	0.130	-24	-225	3.41
SFS-32	2.000	2.270	2.500	0.130	-32	-228	4.17
SFS-40	2.500	2.775	3.005	0.130	-40	-232	5.12
SFS-48	3.000	3.395	3.625	0.130	-48	-237	6.55
SFS-56	3.500	3.885	4.115	0.130	-56	-241	6.74
SFS-64	4.000	4.385	4.615	0.130	-64	-245	6.90
SFS-80*	5.000	5.385	5.615	0.130	-80	-253	7.09

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

O'RING CORD

	Material	Format	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	0.59	0.66	0.68	0.81	0.81	O/R	1.00	1.00	1.17	1.17	1.56	2.54	2.27	3.03	4.06	4.65	7.28
●	FPM 75	OC/V	2.87	3.14	3.14	4.98	4.98	O/R	8.54	8.54	14.30	14.34	18.33	19.83	31.36	36.11	59.14	86.91	148.87
●	EPDM 80	OC/E	0.64	0.64	0.75	0.88	1.00	O/R	1.09	1.13	1.40	1.51	1.84	2.01	2.29	3.31	5.64	10.94	16.45
●	SILICONE 70	OC/S	0.28	0.36	0.40	0.45	0.52	0.66	0.78	1.00	1.38	1.51	2.08	2.87	4.16	4.87	8.22	12.54	20.79
✖	NBR 70	QC/N	0.92	1.10	1.10	1.30	1.30	O/R	1.84	1.84	2.39	2.39	3.14	4.41	5.71	7.17	O/R	O/R	O/R
■	NBR 70	SC/N	0.71	0.71	0.71	0.89	0.89	O/R	1.10	1.10	1.33	2.68	2.72	3.56	5.82	5.82	7.02	10.69	O/R

Increments of 1 ft

VULCANIZED NITRILE O'RINGS

VULCANIZED NITRILE O'RINGS (NBR70A) CROSS SECTION DIAMETER - UNIT PRICE																	
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"	11.51	11.51	11.51	11.51	11.51	11.62	11.68	11.76	11.82	12.01	12.50	N/A	N/A	N/A	N/A	N/A	N/A
3-4"	11.51	11.51	11.51	11.59	11.63	11.85	11.95	12.01	12.14	12.42	12.97	13.81	14.25	14.88	15.49	N/A	N/A
4-5"	11.51	11.51	11.59	11.76	11.80	12.09	12.18	12.30	12.41	12.77	13.47	14.46	15.02	15.77	16.45	18.32	26.07
5-6"	11.51	11.59	11.70	11.95	11.97	12.30	12.42	12.57	12.69	13.12	13.88	15.14	15.75	16.61	17.44	19.60	28.19
6-7"	11.51	11.70	11.85	12.09	12.18	12.54	12.65	12.81	12.97	13.47	14.42	15.79	16.52	17.51	18.40	20.89	31.21
7-8"	11.59	11.80	11.97	12.23	12.34	12.77	12.93	13.10	13.24	13.81	14.88	16.45	17.25	18.36	19.41	22.17	33.74
8-9"	11.70	11.95	12.11	12.42	12.54	12.96	13.16	13.34	13.56	14.15	15.31	17.13	18.02	19.25	20.40	23.46	36.26
9-10"	11.78	12.01	12.23	12.58	12.69	13.20	13.41	13.60	13.81	14.46	15.82	17.87	18.74	20.09	21.36	24.76	38.80
10-12"	12.03	12.26	12.49	12.89	13.01	13.61	13.81	14.07	14.31	15.07	16.57	18.78	19.90	21.43	22.81	26.63	42.39
12-14"	12.30	12.61	12.89	13.37	13.47	14.11	14.39	14.68	14.98	15.86	17.59	20.16	21.40	23.20	24.83	29.22	47.34
14-16"	12.58	12.92	13.26	13.77	13.95	14.68	14.98	15.30	15.61	16.61	18.63	21.48	22.95	25.00	26.84	31.79	52.29
16-18"	12.85	13.26	13.64	14.21	14.39	15.23	15.59	15.90	16.29	17.40	19.60	22.89	24.49	26.80	28.83	34.34	57.21
18-20"	13.12	13.64	13.99	14.64	14.84	15.77	16.17	16.57	16.94	18.20	20.63	24.24	26.03	28.55	30.81	36.87	62.14
20-22"	13.43	13.95	14.37	15.06	15.27	16.29	16.74	17.17	17.60	18.98	21.63	25.58	27.56	30.31	32.75	39.48	67.12
22-24"	13.69	14.25	14.72	15.49	15.73	16.84	17.32	17.79	18.26	19.74	22.70	26.96	29.11	32.12	34.81	42.03	72.06
24-26"	14.00	14.58	15.07	15.90	16.18	17.37	17.89	18.40	18.94	20.54	23.69	28.34	30.62	33.89	36.77	44.62	76.99
26-28"	14.27	14.91	15.46	16.37	16.64	17.91	18.47	18.99	19.58	21.31	24.72	29.70	32.06	34.04	38.75	47.14	81.95
28-30"	14.56	15.26	15.83	16.80	17.09	18.44	19.02	19.62	20.24	22.11	25.75	31.08	33.66	37.45	40.76	49.72	86.88
30-32"	14.84	15.59	16.18	17.21	17.55	18.99	19.60	20.25	20.89	22.89	26.76	32.43	35.27	39.26	42.78	52.32	91.79
32-34"	15.14	15.87	16.57	17.64	17.99	19.56	20.20	20.89	21.52	23.68	27.76	33.78	36.81	41.02	44.73	54.86	96.77
34-36"	15.42	16.22	16.92	18.10	18.44	20.09	20.79	21.48	22.19	24.41	28.79	35.19	38.37	42.86	46.74	58.89	101.71
36-38"	15.69	16.57	17.32	18.51	18.90	20.63	21.36	22.13	22.82	25.22	29.82	36.53	39.90	44.62	48.72	59.99	106.66
38-40"	15.98	16.86	17.64	18.98	19.37	21.16	21.92	22.74	23.50	25.98	30.85	37.92	41.45	46.39	50.71	62.57	111.60
40-42"	16.26	17.20	18.03	19.18	19.81	21.74	22.54	23.36	24.19	26.76	31.83	39.27	42.95	48.18	52.68	65.14	116.55
42-44"	16.57	17.55	18.40	19.81	20.25	22.21	23.11	23.97	24.84	27.56	32.83	40.61	44.50	49.98	54.68	69.47	121.49
44-46"	16.84	17.84	18.78	20.25	20.71	22.78	23.69	24.57	25.50	28.34	33.89	42.03	46.04	51.78	56.70	70.24	126.43
46-48"	17.11	18.20	19.14	20.65	21.16	23.34	24.28	25.22	26.14	29.10	34.89	43.37	47.58	53.57	58.49	72.85	131.38
48-50"	17.40	18.51	19.54	21.12	21.59	23.88	24.76	25.83	26.80	29.89	35.91	44.73	49.11	55.32	60.70	75.38	136.32
50-53"	17.40	18.51	19.54	21.12	21.59	23.88	24.76	25.83	26.80	29.89	35.91	44.73	49.11	55.32	60.70	75.38	136.32
53-56"	17.83	19.02	20.05	21.78	22.30	24.70	25.75	26.76	27.80	31.05	37.42	46.81	51.45	58.03	63.68	79.28	143.79
56-59"	18.26	19.54	20.59	22.39	22.95	25.50	26.58	27.69	28.79	32.20	38.95	48.87	53.74	60.70	66.64	83.12	151.23
59-62"	18.70	20.01	21.16	23.07	23.68	26.33	27.45	28.64	29.75	33.39	40.49	50.90	56.06	63.40	69.63	86.99	158.57
62-65"	19.13	20.50	21.74	23.72	24.31	27.13	28.34	29.55	30.77	34.57	42.03	52.93	58.36	66.04	72.61	90.81	165.99
65-68"	19.56	21.00	22.26	24.37	25.00	27.95	29.22	30.48	31.73	35.76	43.58	54.98	60.66	68.70	75.57	94.70	173.42
68-71"	19.97	21.51	22.78	25.00	25.68	28.72	30.05	31.33	32.71	36.87	45.04	57.02	62.95	71.35	78.58	98.52	180.75
71-74"	20.37	22.03	23.36	25.64	26.34	29.55	30.93	32.32	33.70	38.07	46.58	59.09	65.25	74.06	81.58	102.37	188.24
74-77"	20.83	22.47	23.92	26.30	27.04	30.40	31.81	33.27	34.69	39.22	48.10	61.11	67.58	76.72	84.58	106.23	195.67
77-80"	21.24	22.97	24.45	26.92	27.72	31.21	32.70	34.20	35.68	40.42	49.67	63.23	69.88	79.42	87.59	110.09	203.10
80-83"	21.70	23.46	25.00	27.61	28.36	32.02	33.57	35.15	35.91	41.53	51.18	65.22	72.18	82.74	90.52	113.90	210.50
83-86"	22.11	23.97	25.56	28.25	29.06	32.79	34.42	36.07	37.65	42.78	52.68	67.31	74.50	84.79	93.57	117.77	217.91
86-89"	22.54	24.43	26.11	28.90	29.71	33.65	35.27	36.97	38.67	43.90	54.22	69.32	76.57	87.24	96.53	121.65	225.33
89-92"	22.95	24.96	26.67	29.55	30.44	34.44	36.15	37.92	39.63	45.09	55.77	71.42	79.13	90.16	99.53	125.48	232.74
92-95"	28.78	31.31	33.45	37.06	38.18	43.21	45.35	47.57	49.71	56.56	69.95	89.59	99.26	113.09	124.85	157.40	291.95

VULCANIZED FLUOROCARBON O'RINGS

VULCANIZED FLUOROCARBON O'RINGS (FPM75A) CROSS SECTION DIAMETER - UNIT PRICE																	
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"	23.12	23.73	24.34	24.67	25.10	28.32	29.05	32.24	35.62	48.47	62.77	90.26	105.53	O/R	O/R	O/R	O/R
10-15"	25.72	26.40	27.12	27.93	28.46	33.94	34.88	42.17	47.08	67.01	85.61	125.02	146.89	O/R	O/R	O/R	O/R
15-20"	28.28	29.09	29.91	31.15	31.77	39.53	41.72	53.06	59.39	84.20	108.44	159.74	188.23	O/R	O/R	O/R	O/R
20-25"	30.77	31.70	32.63	34.31	36.08	45.04	49.20	62.77	70.85	101.41	131.25	194.48	229.59	O/R	O/R	O/R	O/R
25-30"	33.25	34.29	35.34	38.56	41.02	50.49	57.26	72.71	82.26	118.62	154.08	229.21	270.94	O/R	O/R	O/R	O/R
30-35"	35.73	36.86	38.02	43.10	45.99	55.86	64.75	82.62	93.76	135.82	176.92	263.96	312.31	O/R	O/R	O/R	O/R
35-40"	38.17	39.38	40.67	48.03	51.10	61.20	72.20	92.55	105.18	153.02	199.75	298.69	356.83	O/R	O/R	O/R	O/R
40-45"	40.42	41.94	43.34	52.59	56.29	66.49	79.70	102.47	116.64	170.23	222.56	333.41	398.18	O/R	O/R	O/R	O/R
45-50"	42.96	44.41	45.92	57.16	61.26	71.73	87.17	112.41	128.09	187.43	245.39	370.84	439.55	O/R	O/R	O/R	O/R
50-55"	45.30	46.85	48.50	61.72	66.21	76.89	94.65	122.34	139.52	204.61	268.23	405.57	480.89	O/R	O/R	O/R	O/R
55-60"	47.65	49.32	51.04	66.29	71.17	82.58	102.11	132.25	150.97	221.82	292.82	440.29	522.25	O/R	O/R	O/R	O/R
60-65"	49.95	51.73	53.55	70.85	76.14	88.47	109.59	142.16	162.43	239.03	315.62	475.03	563.60	O/R	O/R	O/R	O/R
65-70"	52.23	54.09	56.48	75.42	81.09	94.35	117.06	152.10	173.88	257.55	338.46	509.79	604.96	O/R	O/R	O/R	O/R
70-75"	54.49	56.67	59.74	79.98	86.08	100.24	124.53	162.78	186.20	274.76	361.29	544.51	646.30	O/R	O/R	O/R	O/R
75-80"	56.71	59.74	62.97	84.55	91.03	106.11	132.02	172.71	197.65	291.97	384.10	579.25	687.67	O/R	O/R	O/R	O/R
80-85"	58.92	62.77	66.21	89.13	96.00	112.48	140.06	182.64	209.08	309.16	406.94	613.99	729.00	O/R	O/R	O/R	O/R
85-90"	61.10	65.80	69.45	93.68	100.94	118.35	147.56	192.56	220.53	326.37	429.77	648.72	770.37	O/R	O/R	O/R	O/R
90-95"	63.26	68.87	72.71	98.61	106.30	124.24	155.04	202.50	231.99	343.57	452.60	683.47	814.91	O/R	O/R	O/R	O/R

VULCANIZED SILICONE O'RINGS

VULCANIZED SILICONE O'RINGS (SI70A) CROSS SECTION DIAMETER - UNIT PRICE															
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"	31.94	32.46	32.97	33.15	33.77	34.26	34.80	35.41	35.88	36.79	38.84	42.82	45.00	55.92	63.11
10-15"	33.01	33.54	34.09	34.77	35.47	36.47	37.26	38.45	39.38	40.76	44.25	50.90	54.60	72.81	84.83
15-20"	34.01	34.63	35.24	36.39	37.20	38.68	39.40	41.41	42.71	44.69	49.58	58.93	64.11	89.54	106.35
20-25"	35.08	35.72	36.38	37.98	38.87	40.88	41.71	44.40	46.03	48.60	54.90	66.87	73.58	106.15	127.70
25-30"	36.11	36.81	37.50	39.61	40.53	43.06	43.94	47.32	49.31	52.47	60.18	74.79	82.96	122.63	148.90
30-35"	37.14	37.88	38.63	41.17	42.22	45.20	46.20	50.23	52.56	56.31	65.41	82.62	92.23	138.97	169.90
35-40"	38.12	38.91	39.73	42.78	43.89	47.34	48.41	53.11	55.77	60.12	70.58	90.37	101.47	155.18	190.73
40-45"	39.15	39.95	40.84	44.29	45.51	49.48	50.63	55.97	58.96	63.87	75.72	98.09	110.60	171.26	211.40
45-50"	40.14	41.01	41.91	45.86	47.14	51.57	52.80	58.81	62.14	67.63	80.80	105.72	119.64	187.17	231.86
50-55"	41.13	42.03	42.98	47.38	48.73	53.67	54.98	61.65	65.26	71.35	85.83	113.27	128.61	202.96	252.15
55-60"	42.12	43.06	44.05	48.91	50.30	55.73	57.13	64.41	68.40	75.02	90.87	120.77	137.54	218.64	272.29
60-65"	43.06	44.06	45.12	50.41	51.88	57.78	59.27	67.19	71.46	78.68	95.83	128.21	146.36	234.15	292.29
65-70"	44.05	45.05	46.15	51.90	53.47	59.80	61.38	69.92	74.52	82.28	100.74	135.64	155.11	249.53	312.02
70-75"	44.84	46.08	47.19	53.39	55.01	61.81	63.46	72.65	77.59	85.88	105.62	142.89	163.77	264.80	331.62
75-80"	45.94	47.05	48.24	54.82	56.55	63.79	65.53	75.34	80.59	89.43	110.42	150.12	172.37	279.90	351.02
80-85"	46.86	48.04	49.25	56.28	58.07	65.78	67.58	77.99	83.56	92.93	115.23	157.32	180.90	294.87	370.30
85-90"	47.81	48.99	50.26	57.70	59.60	67.74	69.63	80.65	86.49	96.41	119.98	164.43	189.35	309.72	389.37
90-95"	48.72	49.95	51.26	59.15	61.07	69.67	71.65	83.28	89.45	99.88	124.66	171.47	197.70	324.40	408.28

VULCANIZED ETHYLENE PROPYLENE O'RINGS

VULCANIZED ETHYLENE PROPYLENE O'RINGS (EPDM80A) CROSS SECTION DIAMETER - UNIT PRICE										
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"	11.31	11.31	11.31	11.31	11.31	11.41	11.47	11.55	11.61	11.80
3-4"	11.31	11.31	11.31	11.39	11.43	11.64	11.73	11.80	11.92	12.20
4-5"	11.31	11.31	11.39	11.55	11.59	11.88	11.96	12.08	12.18	12.54
5-6"	11.31	11.39	11.49	11.73	11.76	12.08	12.20	12.34	12.46	12.89
6-7"	11.31	11.49	11.64	11.88	11.96	12.32	12.42	12.74	12.74	13.23
7-8"	11.39	11.59	11.76	12.01	12.12	12.54	12.70	13.01	13.01	13.57
8-9"	11.49	11.73	11.89	12.20	12.32	12.73	12.93	13.10	13.31	13.90
9-10"	11.57	11.80	12.01	12.36	12.46	12.97	13.17	13.35	13.57	14.20
10-12"	11.81	12.04	12.26	12.66	12.78	13.57	13.57	13.82	14.06	14.80
12-14"	12.08	12.38	12.66	13.13	13.23	13.86	14.14	14.42	14.71	15.57
14-16"	12.36	12.69	13.02	13.53	13.70	14.42	14.71	15.03	15.33	16.32
16-18"	12.62	13.02	13.39	13.95	14.14	14.96	15.31	15.61	16.00	17.09
18-20"	12.89	13.39	13.74	14.38	14.58	15.49	15.88	16.28	16.64	17.87
20-22"	13.19	13.70	14.11	14.79	15.00	16.00	16.44	16.86	17.29	18.64
22-24"	13.45	13.99	14.46	15.21	15.45	16.54	17.01	17.47	17.94	19.39
24-26"	13.75	14.32	14.80	15.61	15.89	17.06	17.57	18.07	18.60	20.17
26-28"	14.02	14.64	15.19	16.08	16.34	17.59	18.14	18.66	19.23	20.93
28-30"	14.30	14.99	15.55	16.50	16.78	18.11	18.68	19.27	19.88	21.71
30-32"	14.58	15.31	15.89	16.90	17.23	18.66	19.25	19.89	20.52	22.48
32-34"	15.15	15.93	16.62	17.78	18.11	19.73	20.42	21.10	21.79	23.97
34-36"	18.19	19.10	19.83	21.09	21.50	23.28	24.02	24.82	25.60	28.05
36-38"	15.41	16.28	17.01	18.18	18.56	20.26	20.98	21.74	22.42	24.77
38-40"	15.69	16.56	17.33	18.64	19.03	20.78	21.53	22.34	23.08	25.51
40-42"	15.97	16.89	17.71	18.84	19.45	21.35	22.14	22.95	23.76	26.28
42-44"	16.28	17.23	18.07	19.45	19.89	21.82	22.69	23.55	24.40	27.07
44-46"	16.54	17.53	18.44	19.89	20.34	22.38	23.27	24.13	25.05	27.84
46-48"	16.81	17.87	18.80	20.28	20.78	22.92	23.85	24.77	25.67	28.58
48-50"	17.09	18.18	19.19	20.74	21.21	23.45	24.32	25.37	26.32	29.35
50-53"	17.51	18.68	19.69	21.39	21.90	24.26	25.29	26.28	27.31	30.49
53-56"	17.94	19.19	20.22	21.99	22.54	25.05	26.11	27.20	28.28	31.62
56-59"	18.36	19.65	20.78	22.66	23.25	25.86	26.96	28.13	29.22	32.79
59-62"	18.79	20.13	21.35	23.29	23.88	26.64	27.84	29.02	30.22	33.95
62-65"	19.21	20.62	21.86	23.93	24.56	27.45	28.70	29.94	31.16	35.12
65-68"	19.61	21.13	22.38	24.56	25.22	28.21	29.51	30.77	32.13	36.21
68-71"	20.01	21.63	22.95	25.18	25.87	29.02	30.38	31.74	33.10	37.39
71-74"	20.46	22.07	23.49	25.83	26.56	29.86	31.24	32.67	34.07	38.52
74-77"	20.86	22.56	24.01	26.44	27.23	30.65	32.12	33.59	35.04	39.70
77-80"	21.31	23.04	24.56	27.12	27.85	31.45	32.97	34.52	35.26	40.79
80-83"	21.71	23.55	25.10	27.74	28.54	32.21	33.80	35.42	36.98	42.01
83-86"	22.14	24.00	25.64	28.38	29.18	33.05	34.64	36.31	37.98	43.12
86-89"	22.54	24.52	26.19	29.02	29.90	33.83	35.50	37.24	38.92	44.29
89-92"	22.96	25.01	26.72	29.64	30.53	34.61	36.38	38.15	39.86	45.42
92-95"	24.70	25.47	27.27	30.30	31.24	35.42	37.26	39.07	40.86	46.57

SERIES 8-XXX BACK-UP RINGS (001...139)

Reference Dash Number	F:-30 to 250 C:-34 to 121 Nitrile NBR90A 8xxx/C $	F:-40 to 250 C:-40 to 121 Urethane AU95A 8-xxx/U $	F:-15 to 400 C:-26 to 205 PTFE V.PTFE 8-xxxSD/T $	F:-60 to 275 C:-51 to 135 POLY-TEMP HT2022 8-xxx/P $
-001	O/R*	O/R*	O/R*	O/R*
-002	O/R*	O/R*	O/R*	O/R*
-003	O/R*	O/R*	O/R*	O/R*
-004	0.32*	1.08*	1.09	0.98*
-005	0.32*	1.08*	1.06*	0.99*
-006	0.25	1.08*	0.62	0.93*
-007	0.24	1.08*	0.64	0.95*
-008	0.25	1.08*	0.65	0.96*
-009	0.25	1.08*	0.67	0.97*
-010	0.25	1.08	0.78	0.99*
-011	0.25	0.79	0.78	1.01*
-012	0.28	0.79	0.86	1.02*
-013	0.29	0.79	0.90	1.04*
-014	0.29	0.79	0.93	1.05*
-015	0.31	0.79	0.99	1.07
-016	0.31	0.94	1.04	1.08
-017	0.31	0.94	1.06	1.09
-018	0.32	0.94	1.09	1.10
-019	0.32	0.94	1.12	1.11*
-020	0.33	0.94	1.16	1.12
-021	0.35	0.94	1.30	1.13
-022	0.35	0.94	1.39	1.13*
-023	0.38	0.94	1.43	1.14*
-024	0.39	0.94	1.53	1.15*
-025	0.39	0.94	1.56	1.15*
-026	0.41*	1.04	1.67	1.16*
-027	0.43	1.04	1.73	1.17*
-028	0.43	1.04	1.87	1.17*
-029	0.46	1.04	3.17	1.19*
-030	0.50	1.04	4.07*	1.20*
-031	0.52	1.04	4.66*	1.21*
-032	0.53	1.04	4.66	1.23*
-033	0.60	1.08	4.66	1.24*
-034	0.69	1.08	4.66	1.46*
-035	0.69	1.08	4.66*	1.47*
-036	0.73	1.08	4.66	1.49*
-037	0.75	1.08	4.66*	1.50*
-038	0.79	1.08	4.66*	1.52*
-039	0.84	1.15	4.66*	1.63*
-040	0.98	1.22*	4.82*	1.85*
-041	1.21	1.23	5.90*	1.92*
-042	1.21	1.25	6.57	1.99*
-043	1.21	1.26	7.53*	2.06*
-044	1.68	1.35	7.81*	2.14*
-045	1.68	1.4	8.61*	2.21*
-046	1.80	1.47	O/R*	2.29*
-047	1.80	1.53	O/R*	2.36*
-048	2.05	1.57	O/R*	2.43*
-049	2.05	1.63	O/R*	2.50*
-050	2.05	1.67	O/R*	2.58*
-102	0.25	0.84*	O/R*	1.01*
-103	0.25*	0.84*	O/R*	1.02*
-104	0.25	0.84*	O/R*	1.03*
-105	0.25	0.84*	O/R*	1.04*
-106	0.25	0.84*	O/R*	1.05*
-107	0.25*	0.84*	O/R*	1.06*
-108	0.25	0.84	O/R	1.07*
-109	0.28	0.84	O/R	1.08*
-110	0.28	0.84	1.30	1.09*
-111	0.28	0.84	1.39	1.10*
-112	0.28	0.84	1.47	1.11*
-113	0.29	0.84	1.60	1.13*
-114	0.29	0.79	1.68	1.14*
-115	0.29	0.79	1.79	1.15*
-116	0.31	0.79	1.85	1.16*
-117	0.32	0.84	1.85	1.17*
-118	0.33	0.84	2.09	1.18*
-119	0.33	0.84	2.23	1.19*
-120	0.35	0.90	2.27	1.20*
-121	0.38	0.90	2.27	1.21
-122	0.39*	0.90	2.27	1.22*
-123	0.39	0.90	2.46	1.23
-124	0.41	0.94	2.46	1.24*
-125	0.42	0.94	2.49	1.25*
-126	0.46	1.04	2.49	1.26
-127	0.45	1.04	2.49	1.28
-128	0.46	1.04	2.55	1.28*
-129	0.49	1.04	2.62	1.30*
-130	0.50	1.04	2.69	1.30*
-131	0.52	1.04	2.69	1.31
-132	0.52	1.04	2.80	1.32*
-133	0.53	1.04	2.80	1.34*
-134	0.54	1.04	2.99	1.35*
-135	0.54*	1.04	3.07	1.36*
-136	0.60	1.04	3.23	1.37*
-137	0.60	1.04	3.40	1.61*
-138	0.66	1.04	3.68	1.62*
-139	0.67	1.04	3.95	1.63*

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

SERIES 8-XXX BACK-UP RINGS (140...249)

Reference Dash Number	F:-30 to 250 C:-34 to 121 Nitrile NBR90A 8xxx/C $	F:-40 to 250 C:-40 to 121 Urethane AU95A 8-xxx/U $	F:-15 to 400 C:-26 to 205 PTFE V.PTFE 8-xxxSD/T $	F:-60 to 275 C:-51 to 135 POLY-TEMP HT2022 8-xxx/P $
-140	0.69	1.06	3.95	1.64*
-141	0.69	1.06	4.17	1.66*
-142	0.73*	1.06	4.50	1.67*
-143	0.75	1.08	4.50	1.68*
-144	0.76	1.15	4.61	1.69*
-145	0.76	1.15	4.67	1.70*
-146	0.80*	1.15	4.73*	1.72*
-147	0.82	1.15	4.79	1.73*
-148	0.82	1.15	4.84	1.74*
-149	0.83	1.15	4.90	1.75*
-150	0.93*	1.22*	5.43	1.77*
-151	1.02	1.22	5.43	1.83*
-152	1.36	1.61	5.61	2.54*
-153	1.55*	1.64	8.64*	2.69*
-154	1.89	2.54	9.82	2.81*
-155	2.08	2.57	11.82	2.93*
-156	2.44	2.59	12.56	3.23*
-157	2.47	2.59	13.82*	3.34*
-158	2.62	2.74	15.80	3.47*
-159	2.68	2.80	16.57*	3.88*
-160	2.74	2.85*	18.11*	4.00*
-161	2.80	2.91	19.65*	4.09*
-162	2.86	3.00	O/R*	4.21*
-163	3.57	3.25*	O/R*	4.33*
-164	3.57*	3.46	15.50	4.44*
-165	3.57*	3.49	O/R*	4.55*
-166	3.57	3.56	O/R*	4.67*
-167	3.57*	3.59*	O/R*	4.79*
-168	3.57*	3.63	O/R*	4.90*
-169	4.35*	3.67	O/R*	5.01*
-170	4.57	3.70	O/R	5.14*
-171	5.00*	3.75*	O/R*	5.26*
-172	3.76*	3.80*	O/R*	5.39*
-173	3.91*	3.83	O/R*	5.51*
-174	3.76*	3.87	O/R*	5.63*
-175	3.91	3.91*	O/R*	5.76*
-176	5.89*	3.99*	O/R*	5.87*
-177	6.10*	4.41*	O/R*	6.00*
-178	6.28	5.04*	O/R*	6.12*
-201	0.26	0.76*	O/R*	0.86*
-202	0.27	0.76	4.33	0.86*
-203	0.27	0.77	4.33*	0.86*
-204	0.27*	0.78	4.33	0.86*
-205	0.29	0.79	4.33*	0.88*

Reference Dash Number	F:-30 to 250 C:-34 to 121 Nitrile NBR90A 8xxx/C $	F:-40 to 250 C:-40 to 121 Urethane AU95A 8-xxx/U $	F:-15 to 400 C:-26 to 205 PTFE V.PTFE 8-xxxSD/T $	F:-60 to 275 C:-51 to 135 POLY-TEMP HT2022 8-xxx/P $
-206	0.29	0.79	1.80	0.88*
-207	0.29	0.79	2.98*	0.90*
-208	0.31*	0.79	5.66	0.91*
-209	0.31	0.79	4.33*	0.92*
-210	0.31	0.84	1.68	0.93*
-211	0.32	0.84	1.85	0.94*
-212	0.33	0.84	1.85	0.95*
-213	0.33	0.84	1.92	0.96*
-214	0.35	0.84	1.94	0.97*
-215	0.35	0.90	1.94	0.99*
-216	0.38	0.90	1.94	1.00*
-217	0.39	0.90	2.16	1.01*
-218	0.39	0.90	1.55	1.02*
-219	0.42	0.90	2.63	1.04*
-220	0.45	0.94	1.46	1.04*
-221	0.44	0.94	2.46	1.06*
-222	0.46	0.94	2.62	1.07*
-223	0.50	0.97	2.85	1.09*
-224	0.54	0.97	2.43	1.10
-225	0.60	1.04	2.52	1.11*
-226	0.64	1.04	2.56	1.12*
-227	0.69	1.04	2.66	1.32
-228	0.73	1.04	2.69	1.32
-229	0.77	1.04	3.71	1.34*
-230	0.80	1.17	4.03	1.35
-231	0.84	1.17	4.24	1.36*
-232	0.96	1.17	4.36	1.37
-233	0.97	1.17	4.40	1.38*
-234	1.05	1.28	4.61	1.39*
-235	1.15	1.28	4.64	1.47*
-236	1.16	1.28	4.71	1.49*
-237	1.17	1.49	4.84	1.74*
-238	1.21	1.49	4.98	1.77
-239	1.21	1.81	5.09	1.79*
-240	1.34	1.86	5.10	2.05
-241	1.36	1.86	5.53	2.11*
-242	1.79	1.86	5.79	2.13
-243	1.55	1.86	6.11	2.16*
-244	1.46	2.28	5.46	2.19*
-245	1.66	2.28	5.49	2.21*
-246	1.80	2.60	5.57	2.24*
-247	1.89	2.60	5.73	2.26*
-248	2.00	2.75	6.69	2.52*
-249	2.03	2.88	7.25	2.71*

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

SERIES 8-XXX BACK-UP RINGS (250...361)

Reference Dash Number	F:-30 to 250 C:-34 to 121 Nitrile NBR90A 8xxx/C $	F:-40 to 250 C:-40 to 121 Urethane AU95A 8-xxx/U $	F:-15 to 400 C:-26 to 205 PTFE V.PTFE 8-xxxSD/T $	F:-60 to 275 C:-51 to 135 POLY-TEMP HT2022 8-xxx/P $
-250	2.26	3.00	7.86	2.73
-251	2.36	3.24	8.27*	2.76*
-252	2.54	3.41	8.31	2.78*
-253	2.62	3.61	8.39	2.81*
-254	2.78	3.76	8.82	2.84*
-255	2.80	3.89	9.29	2.87*
-256	2.99	4.07	9.79	2.90*
-257	3.07	4.3.	10.56	2.92*
-258	3.18	4.42	10.79	2.95
-259	3.37	4.42	11.52	3.00*
-260	3.44	4.63	11.84	3.05*
-261	3.65	4.82	14.05	3.11
-262	3.98	4.91	14.42	3.16*
-263	4.18	5.13	15.30	3.22*
-264	4.80	5.49	17.10	3.27*
-265	4.85	5.78	19.07	3.32*
-266	5.13	6.71	19.23	3.38*
-267	5.35	6.82	20.52	3.44*
-268	5.50	7.00	20.95*	3.49*
-269	5.62	7.00	22.69	3.54*
-270	5.89*	7.19	24.93	3.59*
-271	6.13*	7.35	25.64*	3.65*
-272	6.35	7.43	27.65*	3.71*
-273	6.59	7.50	28.75	3.76*
-274	6.82	7.55	30.14*	3.82*
-275	7.18*	7.64	32.53*	3.88*
-276	7.24	7.71	35.02*	3.94*
-277	7.33	7.74	35.51	4.00*
-278	7.4*	7.79	37.46*	4.06*
-279	7.44	7.82	41.13	4.12*
-280	7.51*	8.05*	O/R*	4.18*
-281	7.62	8.73	O/R*	4.24*
-282	7.66	9.36*	O/R*	4.30*
-283	7.71	10.07*	O/R*	4.37*
-284	7.82	10.48*	O/R*	4.43*
-309	0.31*	0.79	O/R*	1.26*
-310	0.33*	0.79	3.89*	1.27*
-311	0.35	0.79	3.89*	1.28*
-312	0.35	0.84	3.89*	1.29*
-313	0.38	0.84	4.10*	1.30*
-314	0.38*	0.90	4.10*	1.30*
-315	0.42	0.90	4.10*	1.31*
-316	0.39	0.90	4.10*	1.32*
-317	0.41*	0.90	4.10*	1.33*

Reference Dash Number	F:-30 to 250 C:-34 to 121 Nitrile NBR90A 8xxx/C $	F:-40 to 250 C:-40 to 121 Urethane AU95A 8-xxx/U $	F:-15 to 400 C:-26 to 205 PTFE V.PTFE 8-xxxSD/T $	F:-60 to 275 C:-51 to 135 POLY-TEMP HT2022 8-xxx/P $
-318	0.44	0.90	4.51	1.35*
-319	0.44	0.90	4.51*	1.36*
-320	0.46	0.90	4.51*	1.37*
-321	0.52*	0.90	4.51*	1.38*
-322	0.53	0.90	6.23	1.39*
-323	0.55	0.97	4.48*	1.40*
-324	0.6	0.97	4.51	1.41*
-325	0.64	0.97	4.51	1.41*
-326	0.69	1.04	4.68	1.44*
-327	0.72	1.04	4.70	1.46*
-328	0.77	1.04	5.11	1.48*
-329	0.87	1.04	5.12	1.50*
-330	0.93	1.04	5.14	1.89*
-331	0.96	1.04	5.20	1.90*
-332	0.98	0.86	5.21	1.93*
-333	1.02	1.06	5.25	2.13*
-334	1.05	1.08	5.25	2.15*
-335	1.14	1.17	5.53	2.18*
-336	1.14	1.17	5.75	2.19*
-337	1.21	1.25	6.30	2.36*
-338	1.21	1.25	6.36	2.52*
-339	1.27	1.33	6.41	2.67*
-340	1.37	1.42	6.52	2.83*
-341	1.37	1.42	6.58	2.99*
-342	1.46	1.54	6.63	3.15*
-343	1.64	1.73	6.85	3.31
-344	1.80	1.94	7.07	3.47*
-345	1.87	2.10	7.30	3.62
-346	1.87	2.26	7.52	3.78
-347	1.88	2.36	7.74	3.95*
-348	2.05	2.51	7.96	4.10*
-349	2.02	2.60	8.29	4.26
-350	2.20	2.68	12.43	4.42
-351	2.24	3.00	13.77	4.57*
-352	2.27	3.05	11.36	4.74
-353	2.42	3.09	11.36*	4.89*
-354	2.61	3.21	11.36	5.05*
-355	2.79	3.41	11.36	5.21*
-356	2.85*	3.52	11.36*	5.37*
-357	3.09	3.86	11.36	5.52*
-358	3.14	3.86	12.74	5.68*
-359	3.18	4.07	21.45*	5.77*
-360	3.25	4.27	12.74	5.82*
-361	3.30	4.56	12.74	5.87*

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

SERIES 8-XXX BACK-UP RINGS (362...475)

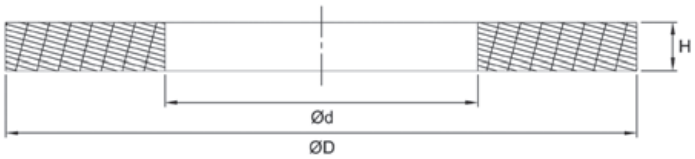
Reference Dash Number	F:-30 to 250 C:-34 to 121 Nitrile NBR90A 8xxx/C $	F:-40 to 250 C:-40 to 121 Urethane AU95A 8-xxx/U $	F:-15 to 400 C:-26 to 205 PTFE V.PTFE 8-xxxSD/T $	F:-60 to 275 C:-51 to 135 POLY-TEMP HT2022 8-xxx/P $
-362	3.76	4.38	12.74	6.32*
-363	4.07	4.56	17.10	6.48*
-364	4.12	4.56	17.10	6.63*
-365	4.38	4.56	17.10	6.80*
-366	4.38	4.56	17.10*	6.95*
-367	4.38	4.56	17.10	7.11*
-368	4.38	4.56	22.52	7.27*
-369	4.64	4.64	22.52*	9.52*
-370	4.64*	4.83	22.52*	9.55*
-371	4.64	4.64	22.52*	9.65*
-372	4.73	4.92	22.52	9.65*
-373	4.73	4.92	23.85	9.66*
-374	5.82	5.12	23.85	9.69*
-375	5.82	5.12	23.85*	9.73*
-376	6.05	5.12	23.85*	9.76*
-377	6.05	5.12	25.49	9.79*
-378	6.05*	5.41	27.86	O/R*
-379	6.12	5.98	27.86*	O/R*
-380	6.12	6.05	27.86	O/R*
-381	6.12	6.14	27.86	O/R*
-382	6.26	6.26	27.86*	O/R*
-383	6.26*	6.31	32.53*	O/R*
-384	6.26	6.44	32.53*	O/R*
-385	6.57	6.67*	32.53*	O/R*
-386	6.60	6.73*	32.53*	O/R*
-387	6.93	6.96*	32.53*	O/R*
-388	7.28	7.43*	O/R*	O/R*
-389	7.64*	7.92*	O/R*	O/R*
-390	8.02*	8.73*	O/R*	O/R*
-391	8.42	8.47*	O/R*	O/R*
-392	8.85	11.28*	O/R*	O/R*
-393	9.29*	11.75*	O/R*	O/R*
-394	9.75*	11.92*	O/R*	O/R*
-395	10.24*	11.92*	O/R*	O/R*
-425	2.65	2.68	15.14	5.31*
-426	2.71	2.70	15.44	5.34*
-427	2.74	3.45	15.75	5.36*
-428	2.78	3.47	16.03*	5.39*
-429	2.82	3.47	16.33	5.42*
-430	3.21	3.51	16.64*	5.45*
-431	3.43	3.57	17.05	5.47*
-432	3.49	3.70	17.45	5.50*

Reference Dash Number	F:-30 to 250 C:-34 to 121 Nitrile NBR90A 8xxx/C $	F:-40 to 250 C:-40 to 121 Urethane AU95A 8-xxx/U $	F:-15 to 400 C:-26 to 205 PTFE V.PTFE 8-xxxSD/T $	F:-60 to 275 C:-51 to 135 POLY-TEMP HT2022 8-xxx/P $
-433	3.61	3.87	17.87	5.53
-434	3.61	4.05	18.28	5.56*
-435	3.63	4.18	18.69	5.59*
-436	3.69	4.20	19.06*	5.62*
-437	3.99	4.32	19.43	5.65*
-438	4.70	4.41	19.80	5.70*
-439	4.78	4.52	20.18	5.75*
-440	4.82	4.90	20.55	5.81*
-441	5.11	5.12	22.06	5.87
-442	5.35	5.35	23.59	5.92*
-443	5.65	6.34	25.10	5.98*
-444	5.68	8.44	26.63	6.00
-445	5.73	8.16	28.15	6.03*
-446	5.78	10.90	28.59	6.06*
-447	5.81	11.34	29.01	6.08*
-448	5.84	11.50	29.45	6.11
-449	5.92	11.50	38.34	6.15*
-450	5.96	12.47	41.60	6.21*
-451	6.00	12.47	42.18	6.27*
-452	6.04	12.47	49.38	6.34*
-453	6.08	12.47	51.44	6.82
-454	6.14	12.47	55.55	6.90*
-455	6.20*	12.47	59.67	6.98*
-456	6.26	12.47	67.90	7.05*
-457	6.31	12.61	76.13	O/R*
-458	6.46	13.50	77.16	O/R*
-459	6.57	14.27	78.18	O/R*
-460	6.66	14.72	79.21	O/R*
-461	6.69	14.85*	104.24	O/R*
-462	6.72	14.97*	O/R	O/R*
-463	6.80	15.28*	O/R*	O/R*
-464	7.01	15.54*	O/R	O/R*
-465	7.18	16.18*	O/R*	O/R*
-466	7.49	16.76*	O/R*	O/R*
-467	7.94*	17.24*	O/R*	O/R*
-468	8.24	17.42*	O/R*	O/R*
-469	8.67	18.16*	109.09*	O/R*
-470	9.22	19.34*	O/R*	O/R*
-471	9.67	20.4*	O/R*	O/R*
-472	10.21	21.57*	O/R*	O/R*
-473	10.72	22.69*	O/R*	O/R*
-474	11.25*	23.88*	O/R*	O/R*
-475	11.81	24.44*	O/R*	O/R*

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

SD/N, ST/N, SD/T, ST/T - Back-up Rings

/N - Nylon
/T - V.PTFE



Nylon Temperature: -40/250F [-40/121C] **Pressure: N/A**
V.PTFE Temperature: -100/400F [-73/205C]

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
1/8" - Cross Section - 0.125"						
BU12500625-062ST/N	0.875	0.625	0.875	0.625	0.062	13.93
BU12500750-062ST/N*	1.000	0.750	1.000	0.750	0.062	13.93
BU12500875-062ST/N*	1.125	0.875	1.125	0.875	0.062	14.34
BU12501000-062ST/N*	1.250	1.000	1.250	1.000	0.062	14.54
BU12501000-125ST/N*	1.250	1.000	1.250	1.000	0.125	15.02
BU12501125-125ST/N*	1.375	1.125	1.375	1.125	0.125	15.02
BU12501250-062ST/N*	1.500	1.250	1.500	1.250	0.062	14.54
BU12501250-125ST/N	1.500	1.250	1.500	1.250	0.125	15.02
BU12501500-062ST/N*	1.750	1.500	1.750	1.500	0.062	14.54
BU12501500-125ST/N*	1.750	1.500	1.750	1.500	0.125	15.02
BU12501750-062ST/N	2.000	1.750	2.000	1.750	0.062	14.54
BU12501750-125ST/N	2.000	1.750	2.000	1.750	0.125	15.02
BU12502000-062ST/N	2.250	2.000	2.250	2.000	0.062	14.54
BU12502000-125ST/N*	2.250	2.000	2.250	2.000	0.125	15.02
BU12502250-062ST/N*	2.500	2.250	2.500	2.250	0.062	14.54
BU12502625-125ST/N	2.875	2.625	2.875	2.625	0.125	16.23
BU12502750-070ST/N*	3.000	2.750	3.000	2.750	0.070	15.36
BU12502750-125ST/N*	3.000	2.750	3.000	2.750	0.125	16.23
BU12503000-062ST/N*	3.250	3.000	3.250	3.000	0.062	15.63
BU12503000-125ST/N*	3.250	3.000	3.250	3.000	0.125	16.64
BU12503250-125ST/N	3.500	3.250	3.500	3.250	0.125	16.64
BU12503482-155SD/T*	3.732	3.482	3.732	3.482	0.155	24.59
BU12504000-125ST/N*	4.250	4.000	4.250	4.000	0.125	17.66
5/32" - Cross Section - 0.156"						
BU15601250-125ST/T*	1.562	1.250	1.562	1.250	0.125	17.78
3/16" - Cross Section - 0.187"						
BU18700750-187ST/T*	1.125	0.750	1.125	0.750	0.187	19.05
BU18701000-062ST/N*	1.375	1.000	1.375	1.000	0.062	14.54

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

SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
3/16" - Cross Section - 0.187"						
BU18701000-070ST/N*	1.375	1.000	1.375	1.000	0.070	14.61
BU18701000-125ST/N*	1.375	1.000	1.375	1.000	0.125	15.02
BU18701125-062ST/N*	1.500	1.125	1.500	1.125	0.062	14.61
BU18701125-070ST/N	1.500	1.125	1.500	1.125	0.070	14.61
BU18701125-125ST/N*	1.500	1.125	1.500	1.125	0.125	15.02
BU18701250-062ST/N*	1.625	1.250	1.625	1.250	0.062	14.61
BU18701250-070ST/N	1.625	1.250	1.625	1.250	0.070	14.61
BU18701250-125ST/N*	1.625	1.250	1.625	1.250	0.125	15.02
BU18701375-062ST/N*	1.750	1.375	1.750	1.375	0.062	14.61
BU18701375-070ST/N	1.750	1.375	1.750	1.375	0.070	14.61
BU18701375-125ST/N	1.750	1.375	1.750	1.375	0.125	15.02
BU18701500-062ST/N*	1.875	1.500	1.875	1.500	0.062	14.61
BU18701500-070ST/N	1.875	1.500	1.875	1.500	0.070	14.61
BU18701500-125ST/N	1.875	1.500	1.875	1.500	0.125	15.02
BU18701625-062ST/N	2.000	1.625	2.000	1.625	0.062	14.61
BU18701625-070ST/N	2.000	1.625	2.000	1.625	0.070	14.61
BU18701625-125ST/N	2.000	1.625	2.000	1.625	0.125	15.02
BU18701750-062ST/N	2.125	1.750	2.125	1.750	0.062	14.61
BU18701750-070ST/N	2.125	1.750	2.125	1.750	0.070	14.61
BU18701750-125ST/N	2.125	1.750	2.125	1.750	0.125	15.02
BU18701875-062ST/N	2.250	1.875	2.250	1.875	0.062	14.61
BU18701875-070ST/N	2.250	1.875	2.250	1.875	0.070	14.61
BU18701875-125ST/N*	2.250	1.875	2.250	1.875	0.125	15.02
BU18702000-062ST/N*	2.375	2.000	2.375	2.000	0.062	14.61
BU18702000-070ST/N	2.375	2.000	2.375	2.000	0.070	14.61
BU18702000-125ST/N	2.375	2.000	2.375	2.000	0.125	15.02
BU18702125-062ST/N	2.500	2.125	2.500	2.125	0.062	14.61
BU18702125-070ST/N	2.500	2.125	2.500	2.125	0.070	14.61
BU18702125-125ST/N	2.500	2.125	2.500	2.125	0.125	15.02
BU18702250-070ST/N	2.625	2.250	2.625	2.250	0.070	15.36
BU18702250-125ST/N*	2.625	2.250	2.625	2.250	0.125	16.30
BU18702375-062ST/N	2.750	2.375	2.750	2.375	0.062	15.36
BU18702375-070ST/N*	2.750	2.375	2.750	2.375	0.070	15.36
BU18702375-125ST/N	2.750	2.375	2.750	2.375	0.125	16.30
BU18702500-062ST/N*	2.875	2.500	2.875	2.500	0.062	15.36
BU18702500-070ST/N	2.875	2.500	2.875	2.500	0.070	15.36
BU18702500-125ST/N	2.875	2.500	2.875	2.500	0.125	16.30
BU18702625-070ST/N	3.000	2.625	3.000	2.625	0.070	15.36
BU18702625-125ST/N*	3.000	2.625	3.000	2.625	0.125	16.30
BU18702750-062ST/N*	3.125	2.750	3.125	2.750	0.062	16.17
BU18702750-070ST/N*	3.125	2.750	3.125	2.750	0.070	16.17
BU18702750-125ST/N*	3.125	2.750	3.125	2.750	0.125	17.52
BU18702875-062ST/N*	3.250	2.875	3.250	2.875	0.062	16.17
BU18702875-125ST/N	3.250	2.875	3.250	2.875	0.125	17.52
BU18703000-062ST/N*	3.375	3.000	3.375	3.000	0.062	16.17

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

SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
3/16" - Cross Section - 0.187"						
BU18703000-070ST/N*	3.375	3.000	3.375	3.000	0.070	16.17
BU18703000-125ST/N*	3.375	3.000	3.375	3.000	0.125	17.52
BU18703125-125ST/N	3.500	3.125	3.500	3.125	0.125	17.52
BU18703500-062ST/N	3.875	3.500	3.875	3.500	0.062	16.17
BU18703500-070ST/N	3.875	3.500	3.875	3.500	0.070	16.17
BU18703500-125ST/N	3.875	3.500	3.875	3.500	0.125	17.52
BU18703625-062ST/N	4.000	3.625	4.000	3.625	0.062	16.17
BU18703625-070ST/N*	4.000	3.625	4.000	3.625	0.070	16.17
BU18703625-125ST/N	4.000	3.625	4.000	3.625	0.125	17.52
BU18704000-062ST/N*	4.375	4.000	4.375	4.000	0.062	16.30
BU18704000-070ST/N*	4.375	4.000	4.375	4.000	0.070	16.30
BU18704000-125ST/N	4.375	4.000	4.375	4.000	0.125	17.66
BU18704125-062ST/N*	4.500	4.125	4.500	4.125	0.062	16.30
BU18704125-070ST/N*	4.500	4.125	4.500	4.125	0.070	16.30
BU18704125-125ST/N*	4.500	4.125	4.500	4.125	0.125	17.66
BU18704250-062ST/N*	4.625	4.250	4.625	4.250	0.062	16.78
BU18704500-070ST/N*	4.875	4.500	4.875	4.500	0.070	16.78
BU18704500-125ST/N*	4.875	4.500	4.875	4.500	0.125	18.33
0.245" - Cross Section - 0.245"						
BU24502511-125SD/DX*	3.000	2.511	3.000	2.511	0.125	43.62
BU24503511-125SD/DX*	4.000	3.511	4.000	3.511	0.125	55.81
1/4" - Cross Section - 0.250"						
BU25001000-062ST/N*	1.500	1.000	1.500	1.000	0.062	14.54
BU25001000-125ST/N	1.500	1.000	1.500	1.000	0.125	15.02
BU25001062-125ST/N*	1.562	1.062	1.562	1.062	0.125	15.02
BU25001187-062ST/N	1.687	1.187	1.687	1.187	0.062	14.54
BU25001187-125ST/N*	1.687	1.187	1.687	1.187	0.125	15.02
BU25001250-062ST/N*	1.750	1.250	1.750	1.250	0.062	14.54
BU25001250-125ST/N*	1.750	1.250	1.750	1.250	0.125	15.02
BU25001375-125ST/N*	1.875	1.375	1.875	1.375	0.125	15.02
BU25001500-062ST/N*	2.000	1.500	2.000	1.500	0.062	14.54
BU25001500-070ST/N*	2.000	1.500	2.000	1.500	0.070	14.54
BU25001500-125ST/N*	2.000	1.500	2.000	1.500	0.125	15.02
BU25001750-062ST/N	2.250	1.750	2.250	1.750	0.062	14.54
BU25001750-070ST/N	2.250	1.750	2.250	1.750	0.070	14.54
BU25001750-125SD/T	2.250	1.750	2.250	1.750	0.125	23.81
BU25001750-125ST/N	2.250	1.750	2.250	1.750	0.125	15.02
BU25002000-062ST/N	2.500	2.000	2.500	2.000	0.062	14.54
BU25002000-070ST/N	2.500	2.000	2.500	2.000	0.070	14.54

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

SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
1/4" - Cross Section - 0.250"						
BU25002000-125ST/N	2.500	2.000	2.500	2.000	0.125	15.02
BU25002000-125ST/T	2.500	2.000	2.500	2.000	0.125	24.73
BU25002250-062ST/N*	2.750	2.250	2.750	2.250	0.062	15.36
BU25002250-070ST/N	2.750	2.250	2.750	2.250	0.070	15.36
BU25002250-125ST/N	2.750	2.250	2.750	2.250	0.125	16.30
BU25002375-062ST/N*	2.875	2.375	2.875	2.375	0.062	15.36
BU25002375-070ST/N*	2.875	2.375	2.875	2.375	0.070	15.36
BU25002375-125ST/N*	2.875	2.375	2.875	2.375	0.125	16.30
BU25002500-062ST/N*	3.000	2.500	3.000	2.500	0.062	15.36
BU25002500-070ST/N*	3.000	2.500	3.000	2.500	0.070	15.36
BU25002500-125ST/N	3.000	2.500	3.000	2.500	0.125	16.30
BU25002500-187ST/N*	3.000	2.500	3.000	2.500	0.187	17.18
BU25002625-125ST/N*	3.125	2.625	3.125	2.625	0.125	16.64
BU25002750-062ST/N*	3.250	2.750	3.250	2.750	0.062	15.63
BU25002750-070ST/N*	3.250	2.750	3.250	2.750	0.070	15.63
BU25002750-125ST/N	3.250	2.750	3.250	2.750	0.125	16.64
BU25002875-070ST/N*	3.375	2.875	3.375	2.875	0.070	15.63
BU25003000-062ST/N	3.500	3.000	3.500	3.000	0.062	15.63
BU25003000-070ST/N	3.500	3.000	3.500	3.000	0.070	15.63
BU25003000-125ST/N	3.500	3.000	3.500	3.000	0.125	16.64
BU25003000-187ST/N*	3.500	3.000	3.500	3.000	0.187	17.66
BU25003250-062ST/N*	3.750	3.250	3.750	3.250	0.062	15.96
BU25003250-070ST/N	3.750	3.250	3.750	3.250	0.070	15.96
BU25003250-125ST/N	3.750	3.250	3.750	3.250	0.125	17.11
BU25003482-100SD/N*	3.982	3.482	3.982	3.482	0.100	17.11
BU25003500-062ST/N	4.000	3.500	4.000	3.500	0.062	15.96
BU25003500-070ST/N	4.000	3.500	4.000	3.500	0.070	15.96
BU25003500-090ST/N	4.000	3.500	4.000	3.500	0.090	16.99
BU25003500-125ST/N	4.000	3.500	4.000	3.500	0.125	17.11
BU25003500-187ST/N	4.000	3.500	4.000	3.500	0.187	18.33
BU25003750-062ST/N	4.250	3.750	4.250	3.750	0.062	16.30
BU25003750-070ST/N	4.250	3.750	4.250	3.750	0.070	16.30
BU25003750-125ST/N	4.250	3.750	4.250	3.750	0.125	17.66
BU25004000-062ST/N	4.500	4.000	4.500	4.000	0.062	16.30
BU25004000-070ST/N	4.500	4.000	4.500	4.000	0.070	16.30
BU25004000-100SD/N*	4.500	4.000	4.500	4.000	0.100	16.98
BU25004000-125ST/N	4.500	4.000	4.500	4.000	0.125	17.66
BU25004000-187ST/N*	4.500	4.000	4.500	4.000	0.187	19.01
BU25004000-312ST/N*	4.500	4.000	4.500	4.000	0.312	21.78
BU25004250-070ST/N	4.750	4.250	4.750	4.250	0.070	16.78
BU25004250-125ST/N	4.750	4.250	4.750	4.250	0.125	18.33
BU25004250-187ST/N	4.750	4.250	4.750	4.250	0.187	19.96
BU25004250-375ST/N*	4.750	4.250	4.750	4.250	0.375	19.66
BU25004500-062ST/N*	5.000	4.500	5.000	4.500	0.062	16.78
BU25004500-070ST/N	5.000	4.500	5.000	4.500	0.070	16.78

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

SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
1/4" - Cross Section - 0.250"						
BU25004500-125ST/N	5.000	4.500	5.000	4.500	0.125	18.33
BU25004500-187ST/N	5.000	4.500	5.000	4.500	0.187	19.96
BU25004625-062ST/N	5.125	4.625	5.125	4.625	0.062	17.11
BU25004750-062ST/N*	5.250	4.750	5.250	4.750	0.062	17.11
BU25004750-070ST/N	5.250	4.750	5.250	4.750	0.070	17.11
BU25004750-125ST/N	5.250	4.750	5.250	4.750	0.125	18.94
BU25004750-187ST/N*	5.250	4.750	5.250	4.750	0.187	20.70
BU25005000-062ST/N	5.500	5.000	5.500	5.000	0.062	17.11
BU25005000-070ST/N*	5.500	5.000	5.500	5.000	0.070	17.11
BU25005000-125SD/DX*	5.500	5.000	5.500	5.000	0.125	72.20
BU25005000-125ST/N	5.500	5.000	5.500	5.000	0.125	18.94
BU25005000-187ST/N	5.500	5.000	5.500	5.000	0.187	20.70
BU25005250-062ST/N*	5.750	5.250	5.750	5.250	0.062	17.59
BU25005250-070ST/N*	5.750	5.250	5.750	5.250	0.070	17.59
BU25005250-125SD/N*	5.750	5.250	5.750	5.250	0.125	19.55
BU25005250-125ST/N*	5.750	5.250	5.750	5.250	0.125	19.55
BU25005500-062ST/N	6.000	5.500	6.000	5.500	0.062	17.59
BU25005500-125ST/N	6.000	5.500	6.000	5.500	0.125	19.55
BU25005500-187ST/N	6.000	5.500	6.000	5.500	0.187	21.58
BU25005750-062ST/N	6.250	5.750	6.250	5.750	0.062	24.62
BU25005750-070ST/N*	6.250	5.750	6.250	5.750	0.070	24.62
BU25005750-125ST/N	6.250	5.750	6.250	5.750	0.125	26.79
BU25006000-125ST/N	6.500	6.000	6.500	6.000	0.125	26.79
BU25006250-062ST/N*	6.750	6.250	6.750	6.250	0.062	25.30
BU25006250-125ST/N*	6.750	6.250	6.750	6.250	0.125	27.80
BU25006500-062ST/N	7.000	6.500	7.000	6.500	0.062	25.30
BU25006500-100SD/N	7.000	6.500	7.000	6.500	0.100	27.80
BU25006500-125ST/N	7.000	6.500	7.000	6.500	0.125	27.80
BU25006625-125ST/N	7.125	6.625	7.125	6.625	0.125	27.87
BU25006750-062ST/N *	7.250	6.750	7.250	6.750	0.062	25.37
BU25006750-125SD/N	7.250	6.750	7.250	6.750	0.125	27.87
BU25006750-125ST/N	7.250	6.750	7.250	6.750	0.125	27.87
BU25007000-125ST/N	7.500	7.000	7.500	7.000	0.125	27.87
BU25007500-062ST/N	8.000	7.500	8.000	7.500	0.062	26.18
BU25007500-125ST/N	8.000	7.500	8.000	7.500	0.125	29.09
BU25007750-125ST/N	8.250	7.750	8.250	7.750	0.125	30.51
BU25008000-125ST/N	8.500	8.000	8.500	8.000	0.125	30.51
BU25008125-125ST/N	8.625	8.125	8.625	8.125	0.125	30.51
BU25008250-125ST/N*	8.750	8.250	8.750	8.250	0.125	30.51
BU25008500-100SD/N	9.000	8.500	9.000	8.500	0.100	30.51
BU25008500-125ST/N	9.000	8.500	9.000	8.500	0.125	30.51
BU25008500-150ST/T*	9.000	8.500	9.000	8.500	0.150	32.06
BU25008500-187ST/N	9.000	8.500	9.000	8.500	0.187	33.08
BU25009000-125ST/N	9.500	9.000	9.500	9.000	0.125	31.73
BU25009250-187ST/N*	9.750	9.250	9.750	9.250	0.187	36.05

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SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
1/4" - Cross Section - 0.250"						
BU25009500-125SD/DX*	10.000	9.500	10.000	9.500	0.125	173.05
BU25009500-125ST/N*	10.000	9.500	10.000	9.500	0.125	32.13
BU25009750-125ST/N*	10.250	9.750	10.250	9.750	0.125	36.66
BU25010000-125ST/N*	10.500	10.000	10.500	10.000	0.125	40.32
BU25010500-125ST/N	11.000	10.500	11.000	10.500	0.125	40.32
BU25010500-187ST/N*	11.000	10.500	11.000	10.500	0.187	44.71
0.281" - Cross Section - 0.281"						
BU28103187-060SD/N	3.749	3.187	3.749	3.187	0.060	15.96
0.301" - Cross Section - 0.301"						
BU30103972-070ST/N*	4.575	3.972	4.575	3.972	0.070	20.08
0.308" - Cross Section - 0.308"						
BU30804134-125ST/N	4.750	4.134	4.750	4.134	0.125	24.27
BU30804384-160ST/N*	5.000	4.384	5.000	4.384	0.160	27.04
5/16" - Cross Section - 0.312"						
BU31201125-125ST/N	1.750	1.125	1.750	1.125	0.125	15.02
BU31201250-062ST/N*	1.875	1.250	1.875	1.250	0.062	14.54
BU31201375-125ST/N*	2.000	1.375	2.000	1.375	0.125	15.02
BU31201500-062ST/N*	2.125	1.500	2.125	1.500	0.062	14.54
BU31201500-100ST/N*	2.125	1.500	2.125	1.500	0.100	14.95
BU31201500-125ST/N*	2.125	1.500	2.125	1.500	0.125	15.08
BU31201750-070ST/N*	2.375	1.750	2.375	1.750	0.070	14.95
BU31201750-125ST/N*	2.375	1.750	2.375	1.750	0.125	15.08
BU31202000-125ST/N*	2.625	2.000	2.625	2.000	0.125	16.23
BU31202125-125ST/N*	2.750	2.125	2.750	2.125	0.125	16.23
BU31202125-250SD/N*	2.750	2.125	2.750	2.125	0.250	18.67
BU31202250-062ST/N*	2.875	2.250	2.875	2.250	0.062	15.29
BU31202250-125ST/N*	2.875	2.250	2.875	2.250	0.125	16.23
BU31202375-062ST/N	3.000	2.375	3.000	2.375	0.062	15.29
BU31202375-125ST/N	3.000	2.375	3.000	2.375	0.125	16.23
BU31202375-187ST/N*	3.000	2.375	3.000	2.375	0.187	17.11
BU31202500-125ST/N	3.125	2.500	3.125	2.500	0.125	16.64
BU31202500-187ST/N*	3.125	2.500	3.125	2.500	0.187	17.66
BU31202625-062ST/N*	3.250	2.625	3.250	2.625	0.062	15.63

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SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
5/16" - Cross Section - 0.312"						
BU31202625-125ST/N*	3.250	2.625	3.250	2.625	0.125	16.64
BU31202750-062ST/N	3.375	2.750	3.375	2.750	0.062	15.63
BU31202750-125ST/N*	3.375	2.750	3.375	2.750	0.125	16.64
BU31202875-125ST/N*	3.500	2.875	3.500	2.875	0.125	16.64
BU31203000-062ST/N	3.625	3.000	3.625	3.000	0.062	15.96
BU31203000-125ST/N	3.625	3.000	3.625	3.000	0.125	17.11
BU31203125-062ST/N*	3.750	3.125	3.750	3.125	0.062	15.96
BU31203250-062ST/N*	3.875	3.250	3.875	3.250	0.062	15.96
BU31203250-125ST/N*	3.875	3.250	3.875	3.250	0.125	17.11
BU31203250-187ST/N*	3.875	3.250	3.875	3.250	0.187	18.33
BU31203375-062ST/N	4.000	3.375	4.000	3.375	0.062	15.96
BU31203375-125ST/N	4.000	3.375	4.000	3.375	0.125	17.11
BU31203375-187ST/N*	4.000	3.375	4.000	3.375	0.187	18.33
BU31203500-125ST/N	4.125	3.500	4.125	3.500	0.125	17.66
BU31203500-187ST/N*	4.125	3.500	4.125	3.500	0.187	19.01
BU31203500-250ST/N*	4.125	3.500	4.125	3.500	0.250	20.36
BU31203750-125ST/N*	4.375	3.750	4.375	3.750	0.125	17.66
BU31203875-125ST/N*	4.500	3.875	4.500	3.875	0.125	17.66
BU31204000-062ST/N*	4.625	4.000	4.625	4.000	0.062	16.78
BU31204000-125ST/N	4.625	4.000	4.625	4.000	0.125	18.33
BU31204125-125ST/N*	4.750	4.125	4.750	4.125	0.125	18.33
BU31204250-062ST/N*	4.875	4.250	4.875	4.250	0.062	16.78
BU31204250-125ST/N	4.875	4.250	4.875	4.250	0.125	18.33
BU31204250-187ST/N*	4.875	4.250	4.875	4.250	0.187	19.96
BU31204375-095ST/N	5.000	4.375	5.000	4.375	0.095	17.93
BU31204375-125ST/N	5.000	4.375	5.000	4.375	0.125	18.33
BU31204500-125ST/N	5.125	4.500	5.125	4.500	0.125	18.94
BU31204500-187ST/N*	5.125	4.500	5.125	4.500	0.187	20.70
BU31204500-500SD/N	5.125	4.500	5.125	4.500	0.500	28.10
BU31204750-125ST/N	5.375	4.750	5.375	4.750	0.125	18.94
BU31204750-187ST/N*	5.375	4.750	5.375	4.750	0.187	20.70
BU31205000-125SD/T	5.625	5.000	5.625	5.000	0.125	19.55
BU31205000-125ST/N	5.625	5.000	5.625	5.000	0.125	19.55
BU31205000-187ST/N*	5.625	5.000	5.625	5.000	0.187	21.58
BU31205375-062ST/N*	6.000	5.375	6.000	5.375	0.062	25.71
BU31205375-125ST/N	6.000	5.375	6.000	5.375	0.125	28.34
BU31205500-125ST/N	6.125	5.500	6.125	5.500	0.125	26.79
BU31205750-125ST/N*	6.375	5.750	6.375	5.750	0.125	26.79
BU31206375-125ST/N*	7.000	6.375	7.000	6.375	0.125	28.34
BU31207375-125ST/N*	8.000	7.375	8.000	7.375	0.125	28.34
BU31207500-062ST/N*	8.125	7.500	8.125	7.500	0.062	27.13
BU31207750-125ST/N*	8.375	7.750	8.375	7.750	0.125	30.51
BU31208000-125ST/N*	8.625	8.000	8.625	8.000	0.125	29.90
BU31208500-125ST/N*	9.125	8.500	9.125	8.500	0.125	31.73
BU31208500-187ST/N*	9.125	8.500	9.125	8.500	0.187	35.51

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SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
5/16" - Cross Section - 0.312"						
BU31209250-125ST/N	9.875	9.250	9.875	9.250	0.125	32.13
BU31209375-125ST/N	10.000	9.375	10.000	9.375	0.125	32.13
BU31209500-125ST/N*	10.125	9.500	10.125	9.500	0.125	43.43
BU31210500-125ST/N*	11.125	10.500	11.125	10.500	0.125	44.04
BU31210500-187ST/N*	11.125	10.500	11.125	10.500	0.187	49.65
BU31211000-125ST/N*	11.625	11.000	11.625	11.000	0.125	41.87
0.343" - Cross Section - 0.343"						
BU34309000-125SD/N	9.687	9.000	9.687	9.000	0.125	35.23
3/8" - Cross Section - 0.375"						
BU37501750-125ST/N*	2.500	1.750	2.500	1.750	0.125	18.33
BU37502000-125ST/N*	2.750	2.000	2.750	2.000	0.125	20.50
BU37502250-125ST/N*	3.000	2.250	3.000	2.250	0.125	20.50
BU37502500-125ST/N	3.250	2.500	3.250	2.500	0.125	21.04
BU37502500-187ST/N	3.250	2.500	3.250	2.500	0.187	22.05
BU37502500-250ST/N*	3.250	2.500	3.250	2.500	0.250	23.13
BU37502750-125ST/N*	3.500	2.750	3.500	2.750	0.125	21.04
BU37503000-125ST/N	3.750	3.000	3.750	3.000	0.125	21.71
BU37503250-125ST/N	4.000	3.250	4.000	3.250	0.125	21.71
BU37503500-125ST/N	4.250	3.500	4.250	3.500	0.125	22.39
BU37503625-125ST/N	4.375	3.625	4.375	3.625	0.125	22.39
BU37503625-437SD/N	4.375	3.625	4.375	3.625	0.437	31.50
BU37503750-125ST/N	4.500	3.750	4.500	3.750	0.125	22.39
BU37504000-125ST/N	4.750	4.000	4.750	4.000	0.125	23.34
BU37504250-125ST/N	5.000	4.250	5.000	4.250	0.125	23.34
BU37504500-125ST/N	5.250	4.500	5.250	4.500	0.125	24.08
BU37504500-187ST/N*	5.250	4.500	5.250	4.500	0.187	25.84
BU37504750-125ST/N	5.500	4.750	5.500	4.750	0.125	24.08
BU37505000-125ST/N	5.750	5.000	5.750	5.000	0.125	24.96
BU37505000-187ST/N*	5.750	5.000	5.750	5.000	0.187	26.92
BU37505250-062ST/N	6.000	5.250	6.000	5.250	0.062	22.93
BU37505250-125ST/N	6.000	5.250	6.000	5.250	0.125	24.96
BU37505250-187ST/N	6.000	5.250	6.000	5.250	0.187	26.92
BU37505500-125ST/N	6.250	5.500	6.250	5.500	0.125	28.95
BU37505500-187ST/N*	6.250	5.500	6.250	5.500	0.187	31.12
BU37505750-125ST/N	6.500	5.750	6.500	5.750	0.125	28.95
BU37505750-187ST/N*	6.500	5.750	6.500	5.750	0.187	31.12
BU37505750-375ST/N*	6.500	5.750	6.500	5.750	0.375	35.45
BU37506000-125ST/N	6.750	6.000	6.750	6.000	0.125	30.31
BU37506250-125ST/N	7.000	6.250	7.000	6.250	0.125	30.31

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SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
3/8" - Cross Section - 0.375"						
BU37506250-187ST/N*	7.000	6.250	7.000	6.250	0.187	32.81
BU37506500-125ST/N*	7.250	6.500	7.250	6.500	0.125	30.37
BU37506750-187ST/N	7.500	6.750	7.500	6.750	0.187	32.88
BU37507000-125ST/N	7.750	7.000	7.750	7.000	0.125	32.00
BU37507000-250ST/N	7.750	7.000	7.750	7.000	0.250	35.78
BU37507250-125ST/N	8.000	7.250	8.000	7.250	0.125	32.00
BU37507250-187ST/N	8.000	7.250	8.000	7.250	0.187	34.90
BU37507250-250ST/N	8.000	7.250	8.000	7.250	0.250	35.78
BU37507500-125ST/N	8.250	7.500	8.250	7.500	0.125	33.89
BU37507750-125ST/N*	8.500	7.750	8.500	7.750	0.125	33.89
BU37508000-125ST/N	8.750	8.000	8.750	8.000	0.125	33.08
BU37508250-125ST/N	9.000	8.250	9.000	8.250	0.125	34.34
BU37508250-187ST/N*	9.000	8.250	9.000	8.250	0.187	36.26
BU37508500-125ST/N*	9.250	8.500	9.250	8.500	0.125	35.51
BU37508750-125ST/N	9.500	8.750	9.500	8.750	0.125	35.51
BU37509000-125ST/N	9.750	9.000	9.750	9.000	0.125	36.05
BU37509250-125ST/N	10.000	9.250	10.000	9.250	0.125	39.44
BU37509500-125ST/N*	10.250	9.500	10.250	9.500	0.125	45.46
BU37509750-125ST/N*	10.500	9.750	10.500	9.750	0.125	45.46
BU37510000-125ST/N*	10.750	10.000	10.750	10.000	0.125	45.46
BU37510250-125ST/N*	11.000	10.250	11.000	10.250	0.125	45.46
BU37510750-125ST/N*	11.500	10.750	11.500	10.750	0.125	46.20
BU37511000-125ST/N*	11.750	11.000	11.750	11.000	0.125	43.50
BU37511250-125ST/N*	12.000	11.250	12.000	11.250	0.125	46.88
BU37511750-375ST/N*	12.500	11.750	12.500	11.750	0.375	82.80
BU37512000-125ST/N*	12.750	12.000	12.750	12.000	0.125	48.64
BU37512250-125ST/N*	13.000	12.250	13.000	12.250	0.125	48.64
BU37513250-375ST/N*	14.000	13.250	14.000	13.250	0.375	77.12
0.417" - Cross Section - 0.417"						
BU41706670-150ST/N*	7.500	6.670	7.500	6.670	0.150	37.86
0.437" - Cross Section - 0.437"						
BU43704500-600SD/N*	5.375	4.500	5.375	4.500	0.600	49.79
0.450" - Cross Section - 0.450"						
BU45005107-120ST/N	6.007	5.107	6.007	5.107	0.120	38.49

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

SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
1/2" - Cross Section - 0.500"						
BU50002500-125ST/N*	3.500	2.500	3.500	2.500	0.125	21.04
BU50002500-187ST/N*	3.500	2.500	3.500	2.500	0.187	22.05
BU50003000-125ST/N*	4.000	3.000	4.000	3.000	0.125	21.71
BU50003000-375ST/N*	4.000	3.000	4.000	3.000	0.375	26.45
BU50003500-125SD/N	4.500	3.500	4.500	3.500	0.125	22.39
BU50003500-125ST/N	4.500	3.500	4.500	3.500	0.125	22.39
BU50004000-125ST/N	5.000	4.000	5.000	4.000	0.125	23.34
BU50004000-187ST/N*	5.000	4.000	5.000	4.000	0.187	24.96
BU50004500-125ST/N	5.500	4.500	5.500	4.500	0.125	24.08
BU50004500-187ST/N*	5.500	4.500	5.500	4.500	0.187	25.84
BU50005000-062ST/N*	6.000	5.000	6.000	5.000	0.062	22.93
BU50005000-125ST/N	6.000	5.000	6.000	5.000	0.125	24.96
BU50005500-125ST/N*	6.500	5.500	6.500	5.500	0.125	25.57
BU50006000-125ST/N	7.000	6.000	7.000	6.000	0.125	37.07
BU50006000-187ST/N*	7.000	6.000	7.000	6.000	0.187	39.57
BU50006375-125ST/N*	7.375	6.375	7.375	6.375	0.125	50.13
BU50006500-125ST/N	7.500	6.500	7.500	6.500	0.125	37.14
BU50006750-125ST/N*	7.750	6.750	7.750	6.750	0.125	42.41
BU50007000-125ST/N	8.000	7.000	8.000	7.000	0.125	38.76
BU50007000-250ST/N	8.000	7.000	8.000	7.000	0.250	44.58
BU50007500-125ST/N*	8.500	7.500	8.500	7.500	0.125	40.65
BU50007500-250ST/N*	8.500	7.500	8.500	7.500	0.250	47.42
BU50007750-125ST/N*	8.750	7.750	8.750	7.750	0.125	44.31
BU50008000-125ST/N*	9.000	8.000	9.000	8.000	0.125	39.84
BU50008500-125ST/N	9.500	8.500	9.500	8.500	0.125	42.28
BU50009000-125ST/N*	10.000	9.000	10.000	9.000	0.125	42.82
BU50009000-250ST/N	10.000	9.000	10.000	9.000	0.250	50.67
BU50009500-125ST/N	10.500	9.500	10.500	9.500	0.125	52.22
BU50009750-125ST/N*	10.750	9.750	10.750	9.750	0.125	52.22
BU50010000-125ST/N*	11.000	10.000	11.000	10.000	0.125	48.10
BU50010000-250ST/N*	11.000	10.000	11.000	10.000	0.250	56.89
BU50010250-125ST/N*	11.250	10.250	11.250	10.250	0.125	53.03
BU50011000-125ST/N*	12.000	11.000	12.000	11.000	0.125	50.26
BU50011000-250ST/N*	12.000	11.000	12.000	11.000	0.250	60.14
BU50012000-125ST/N	13.000	12.000	13.000	12.000	0.125	52.09
BU50012000-250ST/N*	13.000	12.000	13.000	12.000	0.250	62.84
BU50012500-187ST/N*	13.500	12.500	13.500	12.500	0.187	75.15
BU50012750-125ST/N*	13.750	12.750	13.750	12.750	0.125	66.22
BU50013000-125ST/N	14.000	13.000	14.000	13.000	0.125	58.85
BU50013000-250ST/N*	14.000	13.000	14.000	13.000	0.250	71.37
BU50013250-125ST/N*	14.250	13.250	14.250	13.250	0.125	59.60
BU50013250-250ST/N*	14.250	13.250	14.250	13.250	0.250	72.45
BU50013500-125ST/N	14.500	13.500	14.500	13.500	0.125	59.60
BU50013500-187ST/N*	14.500	13.500	14.500	13.500	0.187	66.02
BU50015000-125ST/N	16.000	15.000	16.000	15.000	0.125	63.18

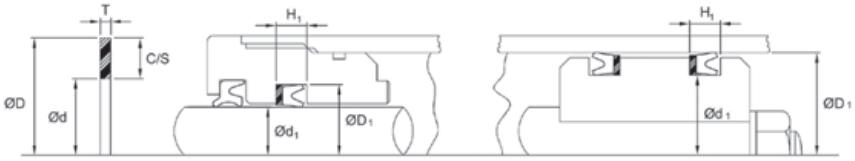
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/N, ST/N, SD/T, ST/T SERIES - NYLON, V.PTFE

Ref.Number	Bore dia.	Rod. dia.	Nominal Seal Dimensions			$
			d	D	H	
1/2" - Cross Section - 0.500"						
BU50015000-187ST/N*	16.000	15.000	16.000	15.000	0.187	70.55
BU50015000-250ST/N*	16.000	15.000	16.000	15.000	0.250	77.86
BU50015500-125ST/N*	16.500	15.500	16.500	15.500	0.125	74.48
BU50015750-125ST/N*	16.750	15.750	16.750	15.750	0.125	74.48
BU50016000-187ST/N*	17.000	16.000	17.000	16.000	0.187	74.48
0.740" - Cross Section - 0.740"						
BU74006875-125SD/DX*	8.355	6.875	8.355	6.875	0.125	99.63

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

8700 - Back-up Rings



/P - High perf. Urethane (Orange)
SD/T - V.PTFE

Temperature: -65/275F [-50/135C]
Temperature: -320/450F [-196/232C]

Ref.Number	Nominal Seal Dimensions			V.PTFE SD/T	HP SD/P	Ref.Number	Nominal Seal Dimensions			V.PTFE SD/T	HP SD/P
	d	D	T	$	$		d	D	T	$	$
870300187	0.187	0.375	0.062	5.40*	1.18*	871201250	1.250	2.000	0.062	8.99*	3.58*
870400187	0.187	0.437	0.062	5.40*	1.20*	870501312	1.312	1.625	0.062	8.99*	1.68*
870400250	0.250	0.500	0.062	5.40*	1.20*	870501375	1.375	1.687	0.062	8.99	1.80
870300312	0.312	0.500	0.062	5.40*	1.20*	870601375	1.375	1.750	0.062	8.99	2.01
870400312	0.312	0.562	0.062	5.40*	1.20*	871001375	1.375	2.000	0.062	8.99*	3.55*
870400375	0.375	0.625	0.062	5.40*	1.26*	870501500	1.500	1.812	0.062	8.99	1.78*
870400437	0.437	0.687	0.062	5.40*	1.26*	870601500	1.500	1.875	0.062	8.99	2.04*
870400500	0.500	0.750	0.062	5.95	1.27	870801500	1.500	2.000	0.062	8.99*	2.48
870600500	0.500	0.875	0.062	5.95*	1.68*	870601625	1.625	2.000	0.062	9.11	2.14
870800500	0.500	1.000	0.062	5.95*	1.93*	870601656	1.656	2.031	0.062	9.11*	2.11*
870400562	0.562	0.812	0.062	5.95*	1.29*	870601750	1.750	2.125	0.062	10.03	2.28
870300625	0.625	0.812	0.062	5.95*	1.20*	870801750	1.750	2.250	0.062	10.03*	2.64*
870400625	0.625	0.875	0.062	5.95	1.33	870601875	1.875	2.250	0.062	10.03	2.35*
870600625	0.625	1.000	0.062	5.95*	1.77*	870701937	1.937	2.375	0.062	10.03*	2.38*
870800625	0.625	1.125	0.062	5.95*	2.00*	870602000	2.000	2.375	0.062	10.14	2.43
870400687	0.687	0.937	0.062	5.95*	1.29*	870802000	2.000	2.500	0.062	10.14*	2.76*
870400750	0.750	1.000	0.062	8.76	1.38	870602125	2.125	2.500	0.062	10.37	2.48
870600750	0.750	1.125	0.062	8.76*	1.83*	870602156	2.156	2.531	0.062	10.37*	2.48*
870800750	0.750	1.250	0.062	8.76*	2.04*	870602250	2.250	2.625	0.062	10.37	2.56*
870400812	0.812	1.062	0.062	8.76	1.30*	871202250	2.250	3.000	0.062	10.37*	4.05*
870400875	0.875	1.125	0.062	8.76*	1.33*	870602375	2.375	2.750	0.062	10.37*	2.61*
870500875	0.875	1.187	0.062	8.76*	1.57*	871002375	2.375	3.000	0.062	10.37	3.90*
870600875	0.875	1.250	0.062	8.76*	1.87*	870602500	2.500	2.875	0.062	10.37	2.62*
870800875	0.875	1.375	0.062	8.76*	2.10*	870702500	2.500	2.937	0.062	11.07	2.78
870400937	0.937	1.187	0.062	8.76*	1.33*	870802500	2.500	3.000	0.062	11.07	3.32*
870500937	0.937	1.250	0.062	8.76*	1.57*	870702562	2.562	3.000	0.062	11.07	2.84*
870401000	1.000	1.250	0.062	8.76	1.37*	870602625	2.625	3.000	0.062	11.07	2.69*
870501000	1.000	1.312	0.062	4.54*	1.64	870702687	2.687	3.125	0.062	11.07*	2.88*
870601000	1.000	1.375	0.062	8.99*	1.93*	870602750	2.750	3.125	0.062	11.07*	2.71*
870801000	1.000	1.500	0.062	8.99*	2.19*	870702750	2.750	3.185	0.062	11.07*	2.90*
870501062	1.062	1.375	0.062	8.99*	1.64*	870802750	2.750	3.250	0.062	7.26	3.75
870401125	1.125	1.375	0.062	8.99*	1.38*	870602812	2.812	3.187	0.062	11.53*	2.71*
870501125	1.125	1.437	0.062	8.99*	1.64*	870702812	2.812	3.250	0.062	7.26	2.89
870501187	1.187	1.500	0.062	8.99	1.75	870602843	2.843	3.218	0.062	11.53*	2.71*
870501218	1.218	1.531	0.062	8.99*	1.66*	870702843	2.843	3.281	0.062	11.53*	2.97*
870401250	1.250	1.500	0.062	8.99	1.47*	870602875	2.875	3.250	0.062	11.53*	2.73*
870501250	1.250	1.562	0.062	8.99	1.68*	870902937	2.937	3.500	0.062	11.53*	32.22*
870801250	1.250	1.750	0.062	8.99*	2.34*	870603000	3.000	3.375	0.062	11.53*	2.80*

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

8700 SERIES - BACK-UP RINGS

Ref.Number	Nominal Seal Dimensions			V.PTFE SD/T	HP SD/P
	d	D	T	$	$
870703000	3.000	3.437	0.062	11.53	3.86
870803000	3.000	3.500	0.062	11.53	3.24*
870703062	3.062	3.500	0.062	11.53	3.03*
870603250	3.250	3.625	0.062	11.53*	2.90*
871203250	3.250	4.000	0.062	11.53	4.50*
871003375	3.375	4.000	0.062	11.53*	4.43*
870603500	3.500	3.875	0.062	12.91*	3.30*
870803500	3.500	4.000	0.062	12.91	4.64
870803750	3.750	4.250	0.062	12.91*	4.81*
870803937	3.937	4.437	0.062	12.91*	4.08*
870604000	4.000	4.375	0.062	12.91*	4.43*
870804000	4.000	4.500	0.062	12.91	4.90
870804250	4.250	4.750	0.062	12.91*	4.95*
871204250	4.250	5.000	0.062	12.91*	5.55*
871004375	4.375	5.000	0.062	12.91	5.14*
870904437	4.437	5.000	0.062	12.91	5.50
870804500	4.500	5.000	0.062	12.91	5.10
870804750	4.750	5.250	0.062	15.73*	5.14*
870904937	4.937	5.500	0.062	15.73*	5.64*
870805000	5.000	5.500	0.062	15.73	5.25*
870905000	5.000	5.562	0.062	15.73	5.88*
871005125	5.125	5.750	0.062	15.73*	5.78*
871205250	5.250	6.000	0.062	15.73*	6.67*
871005375	5.375	6.000	0.062	21.90	6.01
870905437	5.437	6.000	0.062	26.17	7.50
870805500	5.500	6.000	0.062	21.90	5.34
871005500	5.500	6.125	0.062	26.17	9.06*
871205500	5.500	6.250	0.062	26.17	7.37*
870905937	5.937	6.500	0.062	26.17*	6.95*
870806000	6.000	6.500	0.062	26.17*	5.59*
871006000	6.000	6.625	0.062	26.17*	25.18*
871206250	6.250	7.000	0.062	26.17*	32.22*
871006375	6.375	7.000	0.062	23.17	26.47
870906437	6.437	7.000	0.062	26.05*	33.71*

Ref.Number	Nominal Seal Dimensions			V.PTFE SD/T	HP SD/P
	d	D	T	$	$
870806500	6.500	7.000	0.062	26.05*	5.78*
871206500	6.500	7.250	0.062	26.05*	33.44*
870906937	6.937	7.500	0.062	26.05*	34.09*
871006968	6.968	7.593	0.062	26.05*	28.44*
870807000	7.000	7.500	0.062	26.05*	31.51*
871007000	7.000	7.625	0.062	26.05*	28.72*
871207000	7.000	7.750	0.062	26.05*	34.40*
871607000	7.000	8.000	0.062	26.05*	45.98*
871007375	7.375	8.000	0.062	26.05	29.16
870807500	7.500	8.000	0.062	34.21*	31.79*
871207500	7.500	8.250	0.062	34.21*	35.50*
870907937	7.937	8.500	0.062	34.21*	36.28*
870808000	8.000	8.500	0.062	34.21*	31.99*
871008000	8.000	8.625	0.062	34.21*	31.84*
871208000	8.000	8.750	0.062	34.21*	36.49*
871608000	8.000	9.000	0.062	34.21*	47.80*
871008500	8.500	9.125	0.062	34.21*	33.38*
871209000	9.000	9.750	0.062	34.21*	38.63*
871609000	9.000	10.000	0.062	34.21*	49.62*
871109312	9.312	10.000	0.062	34.21*	45.99
871109343	9.343	10.031	0.062	34.21*	48.59*
871210000	10.000	10.750	0.062	34.21*	41.16*
871610000	10.000	11.000	0.062	34.21*	52.12*
871611000	11.000	12.000	0.062	34.21	54.47*
871611031	11.031	12.031	0.062	34.21*	54.98*
871211250	11.250	12.000	0.062	32.33	42.31
871612000	12.000	13.000	0.062	44.98*	58.20*
871613000	13.000	14.000	0.062	44.98*	61.10*
871613031	13.062	14.062	0.062	44.98*	62.54*
871313187	13.187	14.000	0.062	48.05*	48.89
871315218	15.218	16.031	0.062	48.05*	124.91*
871519093	19.093	20.031	0.062	48.05*	171.14*

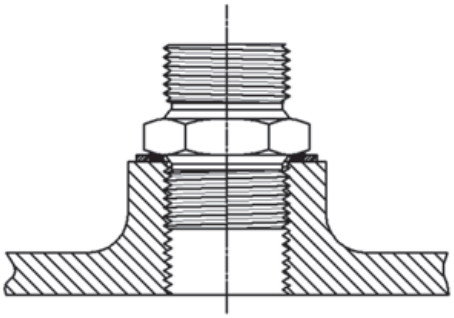
PG SERIES - PAPER GASKETS

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
PG-12502000-020	2.000	2.250	0.020	3.71
PG-12502500-020	2.500	2.750	0.020	4.07
PG-12503000-020	3.000	3.250	0.020	4.92
PG-12503250-020	3.250	3.500	0.020	5.49
PG-12503750-020*	3.750	3.750	0.020	6.74
PG-12504000-020	4.000	4.250	0.020	7.50

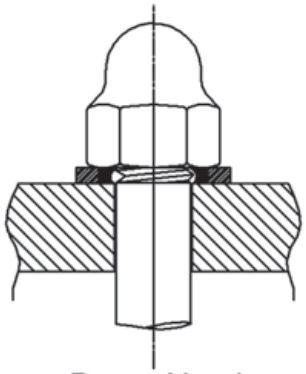
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
PG-12505000-020	5.000	5.250	0.020	8.44
PG-12506000-020	6.000	6.250	0.020	9.12
PG-12508000-020	8.000	8.250	0.020	9.48
PG-12510000-020	10.000	10.250	0.020	10.39
PG-12512000-020*	12.000	12.250	0.020	10.81

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

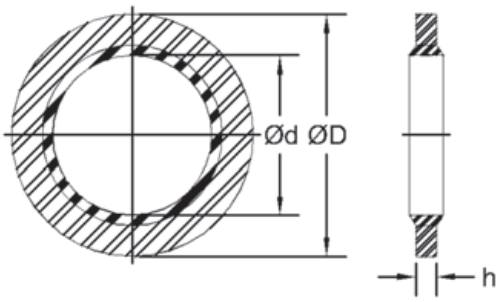
BONDED SEAL TYPICAL APPLICATIONS



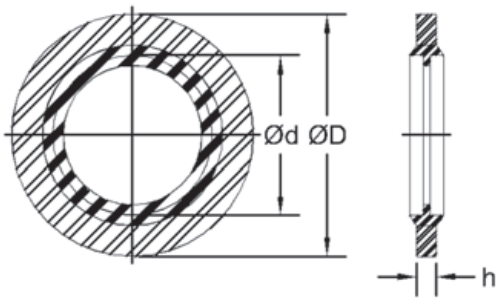
Union



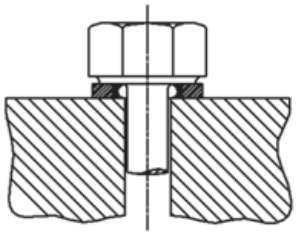
Dome Head



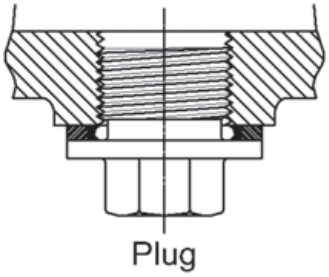
Standard



Self Centering



Bolt Head



Plug

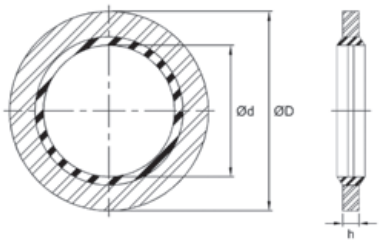
BONDED SEALS - REFERENCE CHART

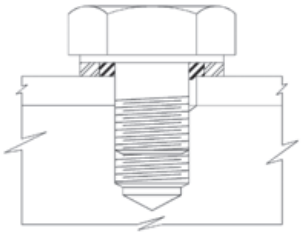
Ref. Number	Nominal Size Bolt Dia.			d		P		Y	
	in	B.S.P.	mm	in	mm	in	mm	in	mm
BS400001	0.110		2.6	.115/ .125	2.92/ 3.18			.161/ .164	4.09/ 4.17
BS400002	0.142		-	.157/ .167	3.99/ 4.24			.202/ .212	5.13/ 5.39
BS400003	0.185		-	.200/ .210	5.08/ 5.33			.245/ .255	6.22/ 6.48
BS400004	1/4		6	.265/ .275	6.73/ 6.99	.008/.015	0.20/0.38	.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			.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	.010/.020	0.25/0.51	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

BONDED SEALS - REFERENCE CHART

D		h		T		Minimum Bursting Pressure		Ref. Number
in	mm	in	mm	in	mm	p.s.i.	bar	
.250/ .255	6.35/ 6.48			0.210	5.33	18100	1250	BS400001
.286/ .291	7.26/ 7.39			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	.048/.054	1.22/1.37	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			0.560	14.22	13200	910	BS400020
.723/ .727	18.36/18.47				14.73	17300	1190	BS400008
.750/ .755	19.05/19.18			0.600	15.24	16400	1130	BS400009
.810/ .815	20.57/20.70	.080/.086	2.03/2.18	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			0.870	22.10	11400	785	BS400012
1.060/1.065	26.92/27.05			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	33.27/33.40	.092/.102	2.34/2.60	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	33.27	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/.138	3.25/3.51	1.510	38.35	6650	455	BS400015
1.685/1.690	42.80/42.93			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	.128/.138	3.25/3.51	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

BS400
Bonded Seal
Carbon Steel/NBR





Temperature: -65/225F [-54/107C] **Pressure:**

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400001*	0.115	0.250	0.048	1.50
BS400002	0.157	0.286	0.048	1.50
BS400003	0.200	0.330	0.048	1.17
BS400004	0.265	0.520	0.048	1.17
BS400005	0.270	0.525	0.048	1.67
BS400006	0.322	0.525	0.048	1.67
BS400007	0.335	0.560	0.048	1.21
BS400020*	0.403	0.625	0.048	1.27
BS400008	0.438	0.723	0.048	1.27
BS400009	0.455	0.750	0.048	1.29
BS400021	0.536	0.810	0.080	1.29
BS400010	0.580	0.875	0.080	1.40
BS400022	0.618	0.875	0.080	1.43
BS400011	0.645	1.000	0.080	1.45
BS400023	0.675	0.937	0.080	1.47
BS400012	0.710	1.000	0.080	1.47
BS400024	0.770	1.060	0.080	1.63
BS400025	0.843	1.125	0.080	1.82
BS400026	0.920	1.250	0.080	2.00
BS400013	0.950	1.310	0.092	3.52

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400027	1.060	1.375	0.092	2.43
BS400028	1.090	1.520	0.092	3.16
BS400014	1.150	1.440	0.092	3.46
BS400029	1.208	1.500	0.092	3.67
BS400015	1.280	1.630	0.128	3.95
BS400030	1.329	1.685	0.128	3.70
BS400031*	1.329	1.685	0.092	4.35
BS400016	1.410	1.750	0.092	8.50
BS400017*	1.530	1.880	0.092	9.38
BS400032	1.685	2.062	0.092	7.10
BS400018*	1.780	2.250	0.092	11.57
BS400033	1.902	2.307	0.092	8.23
BS400019	2.030	2.500	0.128	12.91
BS400034	2.156	2.750	0.128	13.91
BS400035	2.280	2.770	0.128	40.99
BS400036*	2.380	2.875	0.128	11.63
BS400037*	2.530	3.060	0.128	18.66
BS400038*	2.620	3.130	0.128	18.66
BS400039*	2.990	3.555	0.128	20.91

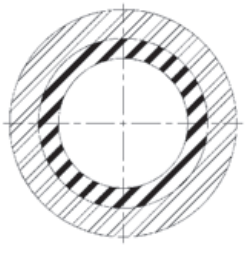
SERIES BS400SC - SELF CENTERING

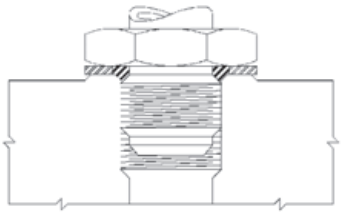
Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400020SC*	0.403	0.625	0.048	1.42
BS400021SC	0.536	0.810	0.080	1.60
BS400023SC	0.675	0.937	0.080	1.79
BS400025SC*	0.843	1.125	0.080	2.11
BS400026SC*	0.920	1.250	0.080	2.70
BS400027SC*	1.060	1.375	0.092	2.86

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
BS400029SC*	1.208	1.500	0.092	4.17
BS400030SC*	1.329	1.685	0.128	4.44
BS400032SC*	1.685	2.062	0.092	8.65
BS400033SC*	1.902	2.307	0.092	10.09
BS400036SC*	2.380	2.875	0.128	25.34

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

250
Lock-o-Seal
Aluminium/NBR





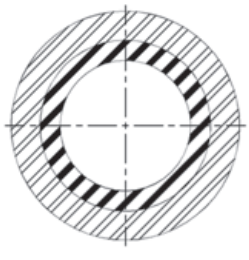
Temperature: -65/225F [-54/135C] **Pressure:**

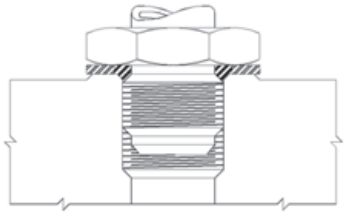
Ref.Number	Nominal Seal Dimensions			$	Ref.Number	Nominal Seal Dimensions			$
	d	D	h			d	D	h	
250-215-4	0.555	0.813	0.050	4.03	250-215-10*	1.036	1.375	0.081	6.01
250-215-5*	0.622	0.875	0.050	4.51	250-215-10A	1.036	1.313	0.081	6.01
250-215-6*	0.667	0.906	0.050	4.73	250-215-12*	1.203	1.500	0.081	8.39
250-215-8*	0.845	1.094	0.050	5.37	250-215-24*	2.016	2.375	0.081	11.71

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

TUBE SIZE (DASH NO.)	RETAINER			O-RING		
	d +/- .002	D +/- .005	h +/- .004	I.D. +/- .006	H +/- .003	SIZE
-4	0.555	0.813	0.050	0.362	0.103	2-110
-5	0.622	0.875	0.050	0.424	0.103	2-111
-6	0.667	0.906	0.050	0.424	0.103	2-111
-8	0.845	1.094	0.050	0.612	0.103	2-114
-10	1.036	1.375	0.081	0.734	0.139	2-210
-10A	1.036	1.313	0.081	0.734	0.139	2-210
-12	1.203	1.500	0.081	0.921	0.139	2-113
-24	2.016	2.375	0.081	1.734	0.139	2-224

800
Lock-o-Seal
Steel/NBR





Temperature: -65/225F [-54/107C] **Pressure:**

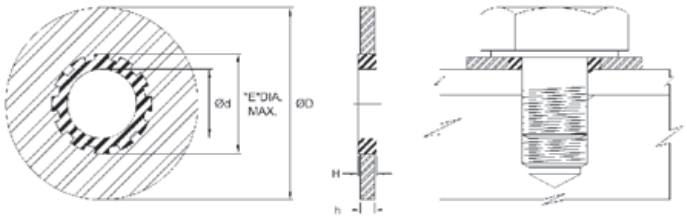
Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
800-001-4*	0.130	0.385	0.040	2.15
800-001-5*	0.156	0.385	0.040	2.15
800-001-6*	0.180	0.443	0.050	2.15
800-001-8*	0.186	0.468	0.050	2.15
800-001-10*	0.240	0.505	0.050	1.67
800-001-10OS*	0.245	0.531	0.050	1.67
800-001-250*	0.301	0.603	0.050	1.67
800-001-250OS*	0.364	0.666	0.050	1.67
800-001-312*	0.427	0.760	0.050	1.80

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
800-001-375*	0.490	0.880	0.050	2.06
800-001-437*	0.552	1.067	0.050	2.77
800-001-500*	0.615	1.193	0.050	2.88
800-001-562*	0.740	1.322	0.064	3.04
800-001-625*	0.864	1.510	0.064	3.13
800-001-750*	0.988	1.760	0.064	3.36
800-001-875*	0.988	1.760	0.064	6.96
800-001-1000*	0.988	1.760	0.064	8.24

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

FASTENER SIZE (DASH NO.)	RUBBER SEAL I.D.	H	d	D	h
-2 [4]	0.078	0.030	0.136	0.250	0.024
-4	0.100	0.038	0.171	0.312	0.027
-5	0.116	0.038	0.187	0.312	0.027
-6	0.128	0.050	0.224	0.375	0.040
-8	0.154	0.050	0.250	0.375	0.040
-10	0.176	0.050	0.274	0.438	0.040
-10 OS	0.176	0.066	0.312	0.438	0.050
-1/4	0.239	0.051	0.333	0.500	0.040
-1/4 OS	0.239	0.070	0.375	0.531	0.050
-5/16	0.301	0.070	0.437	0.593	0.050
-3/8	0.364	0.070	0.500	0.687	0.050
-7/16	0.425	0.070	0.562	0.750	0.050
-1/2	0.488	0.070	0.625	0.875	0.050
-9/16	0.550	0.070	0.687	1.062	0.050
-5/8	0.612	0.070	0.750	1.188	0.050
-3/4	0.737	0.103	0.947	1.312	0.075
-7/8	0.862	0.103	1.073	1.500	0.075
-1	0.987	0.103	1.198	1.750	0.075

600
Stat-o-Seal
Cadmium Plated Steel/NBR



Temperature: -65/225F [-54/107C] **Pressure:**

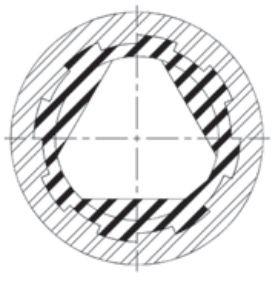
Ref.Number	Nominal Seal Dimensions			$	Ref.Number	Nominal Seal Dimensions			$
	d	D	h			d	D	h	
600-001-6	0.130	0.385	0.040	1.41	600-001-0437	0.427	0.760	0.050	1.76
600-001-8	0.156	0.385	0.040	1.28	600-001-0500	0.490	0.880	0.050	1.89
600-001-10	0.180	0.443	0.050	1.21	600-001-0562	0.552	1.067	0.050	2.22
600-001-10OS*	0.186	0.468	0.050	1.21	600-001-0625	0.615	1.193	0.050	2.52
600-001-0250	0.240	0.505	0.050	1.21	600-001-0750	0.740	1.322	0.064	3.10
600-001-0250OS*	0.245	0.531	0.050	1.21	600-001-0875	0.864	1.510	0.064	4.90
600-001-0312	0.301	0.603	0.050	1.31	600-001-1000*	0.988	1.760	0.064	5.95
600-001-0375	0.364	0.666	0.050	1.44					

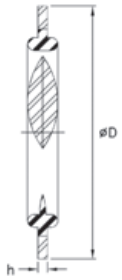
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

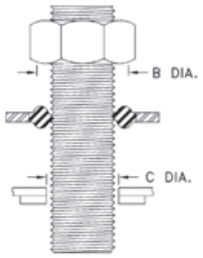
FASTENER SIZE (DASH NO.)	THREAD MAJOR DIAMETER (REF)	d +/- .010	E DIAMETER MAXIMUM	D +/- .010	h	H	DIAMETRAL CLEARANCE (REF.)
-6	0.138	0.130	0.229	0.385	.040 +/- .004	.050 +/- .003	1/64 MAX.
-8	0.164	0.156	0.255	0.385	.040 +/- .004	.050 +/- .003	1/64 MAX.
-10	0.190	0.180	0.317	0.443	.040 +/- .004	.050 +/- .003	1/64 MAX.
-10 O.S.	0.190	0.186	0.365	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

Steel/NBR







Temperature: -65/225F [-54/107C] **Pressure:**

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
7500-6		0.406	0.051	3.07
7500-8		0.406	0.051	3.07
7500-10		0.469	0.051	2.82
7500-250		0.562	0.051	2.82
7500-312		0.687	0.064	3.52
7500-375		0.750	0.064	3.66
7500-437*		0.906	0.078	5.13
7500-500		1.000	0.078	5.13
7500-562		1.094	0.094	5.53
7500-625		1.187	0.094	5.89

Ref.Number	Nominal Seal Dimensions			$
	d	D	h	
7500-750		1.375	0.109	8.87
7500-875*		1.562	0.109	18.53
7500-1000		1.750	0.120	24.59
7500-1125*		1.875	0.120	37.36
7500-1250*		2.000	0.120	41.28
7500-1375*		2.125	0.120	43.18
7500-1500*		2.250	0.120	44.92

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

SIZE (DASH NO.)	MIN. DIA OF MATTING SURFACES	RECOMMENDED CLEARANCE DIAMETER	MIN. C'BORE DEPTH OR WASHER THK	DIA. OF 90 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		

INFO	V-RING INFO	H	2
	TYPE A - NBR	H	3
	TYPE A - FPM	H	5
	TYPE L - NBR	H	7
	TYPE L - FPM	H	8
	TYPE S - NBR	H	9
	RETAINING RINGS	H	11
	N1300	H	14
	N1400	H	15
	VH	H	17
	WH	H	20
	WHM	H	23
	WHT	H	26
	VS	H	28
	WS	H	30
	WST	H	33
	WSM	H	35
	COTTER PIN	H	38
	ROLL PIN FASTENER	H	38

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.

No special machining is required since the V-ring adheres firmly to the shaft.

Application limits		
Pressure	0.3 bar	4.35 PSI
Temperature		
NBR	-40...+100°C	-40...+212°F
FPM	-23...+150°C	-9.4...+302°F

Surface finish		
Surface roughness	R_a	R_t
Sliding surface	≥2.5 μm	≥12 μm

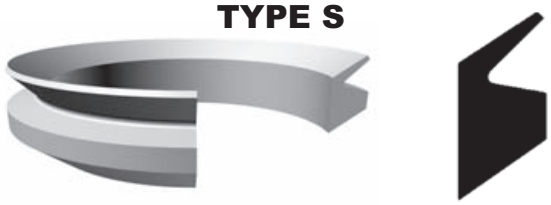
TYPE A

The most common style available in the widest range of sizes from 2.7mm shaft to 2020mm 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 105mm shaft to 630mm, also available up to 2025mm.

TYPE S

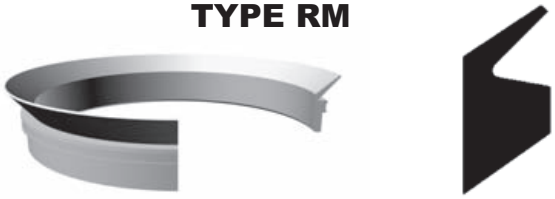


The original V-ring designed with a wide body and tapered heel to firmly hold the ring on the shaft. Available in sizes from 4.5mm shaft to 210mm. Commonly use in agricultural and automotive applications.

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 300mm to 2010mm.

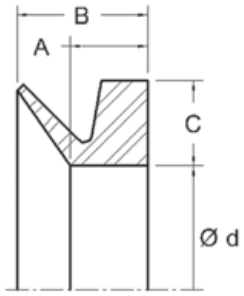
TYPE RM

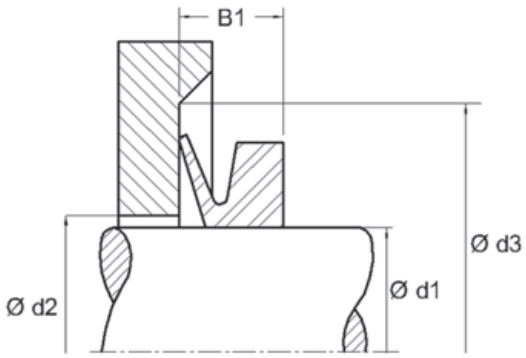


A heavy duty large-diameter style designed to operate in severe running conditions. The unique body can accommodate radial and axial support in high shaft speed applications. This V-ring can be trimmed to meet existing space requirements, (with a minimum fitted width of 42.5mm). Available in sizes from 300mm shaft to 3000mm in nitrile only. The RM is a made-to-order item.

Type A

Profile and installation dimensions
NBR 65D





Ref. Number	For shaft diameter d1 min.	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	1.52
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	1.52
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	1.59
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	1.80
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	1.81
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	1.84
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	1.85
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	1.86
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	1.89
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	1.90
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	2.04
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	2.15
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	2.31
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	2.50
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	2.71
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	2.70
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	2.84
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	2.94
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	3.07
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	3.27
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	3.64
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	3.95
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	4.12
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	4.29
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	4.48
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	4.63
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	4.94
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	5.17
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	5.33
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	5.48
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	5.60
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	6.07
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	7.10
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	9.85
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	10.95
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	13.28
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	14.68
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	19.96

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

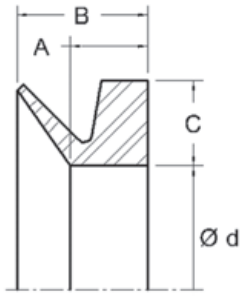
V-RINGS - TYPE A

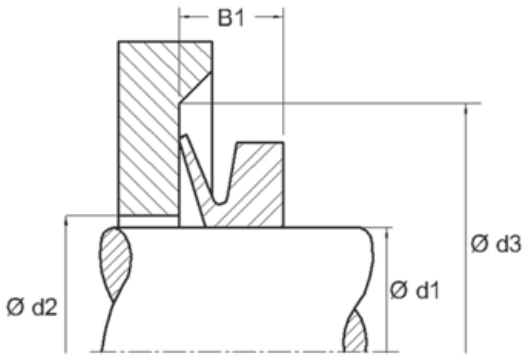
Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0170A	165.00	175.00	153.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401700	21.51
V-0180A	175.00	185.00	162.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401800	23.61
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	25.34
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	28.86
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	44.48
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	45.40
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	52.65
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	67.66
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	73.71
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	86.18
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	94.84
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	108.02
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	119.76
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	132.44
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	170.17
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	196.53
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	364.86
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	558.32
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	588.03
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	700.17
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	717.29
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	767.11
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	805.20
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	857.60
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	888.43
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	938.32
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	972.04
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	1028.32
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	1060.51
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	1095.89
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	1132.56
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	1162.75
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	1240.43
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	1287.69
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	1406.86
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	1451.67
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	1496.07
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	1530.56
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	1589.49
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	1598.23
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	1631.84
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	1657.88
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	1698.53
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	1738.96
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	1778.24
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	1855.20

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

Type A

Profile and installation dimensions
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	5.26
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	5.26
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	5.26
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	5.26
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	5.26
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	5.26
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	5.26
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	5.26
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	9.07
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	9.42
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	10.64
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	11.37
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	12.27
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	12.58
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	12.80
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	13.82
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	14.55
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	16.21
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	16.42
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	19.85
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	22.24
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	24.26
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	28.85
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	32.87
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	34.55
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	39.04
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	41.95
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	45.93
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	53.84
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	55.79
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	67.52
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	69.54
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	112.75
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	127.84
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	137.61
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	145.49
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	152.21
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	186.82

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

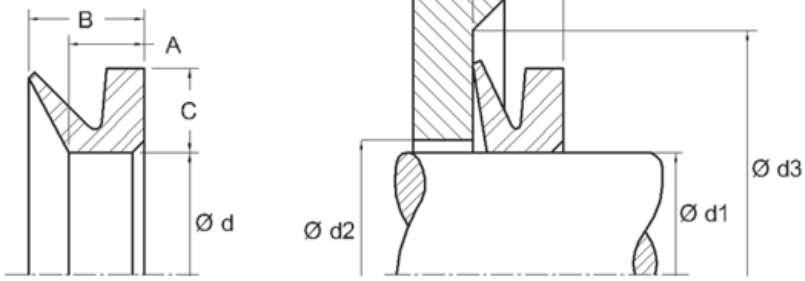
V-RINGS - TYPE A

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-0170A/V*	165.00	175.00	153.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	200.60
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	207.85
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	219.00
V-0199A/V*	195.00	210.00	180.00	8.00	9.00	14.50	12.00 +/- 1.80	d1 + 4.00	d1 + 24.00	232.72
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	369.62
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	393.73
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	462.76
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	598.93
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	635.78
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	717.30
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	782.78
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	825.86
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	948.31
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	1060.51
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	1095.89
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	1162.75
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	1305.97
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	1921.16
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	2125.20
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	2334.28
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	2350.17
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	2533.85
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	2772.48
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	2979.53
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	3131.54
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	3237.95
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	3351.96
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	3465.97
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	3572.39
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	3686.40
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	3785.21
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	3914.44
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	4020.84
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	4134.86
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	4248.87
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	4355.28
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	4469.28
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	4583.30
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	4689.71
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	4803.72
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	4917.73
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	5024.15
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	5138.10
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	5252.17
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	5366.18
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	5472.59

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

Type L

Profile and installation dimensions
NBR 65D

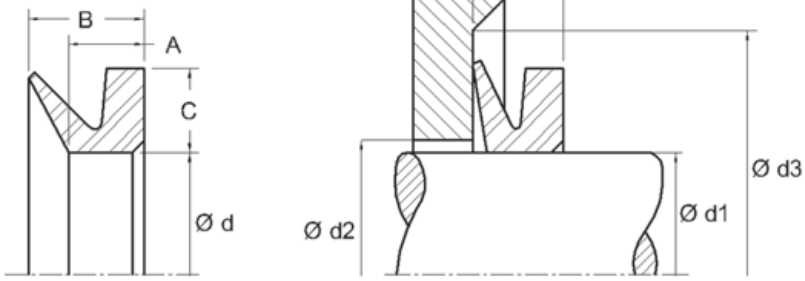


Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0110L*	105.00	115.00	99.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		10.95
V-0120L	115.00	125.00	108.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		11.17
V-0130L*	125.00	135.00	117.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		13.28
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	13.83
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	15.33
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	22.54
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	23.89
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	25.99
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	39.97
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	45.85
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	46.86
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	54.66
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	71.04
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	76.95
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	90.05
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	99.09
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	112.86
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	125.18
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	130.60
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	139.11
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	253.53
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	268.60
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	283.45
V-0650L*	625.00	675.00	600.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		449.22
V-0700L*	675.00	710.00	630.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		478.03
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	577.15
V-0800L*	775.00	825.00	745.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		635.76
V-0850L*	825.00	875.00	785.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00		671.72
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	710.79

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

Type L

Profile and installation dimensions
FPM 63D

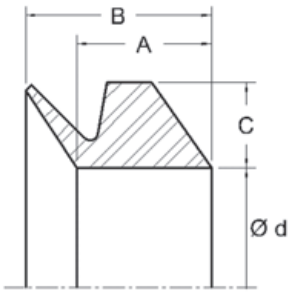


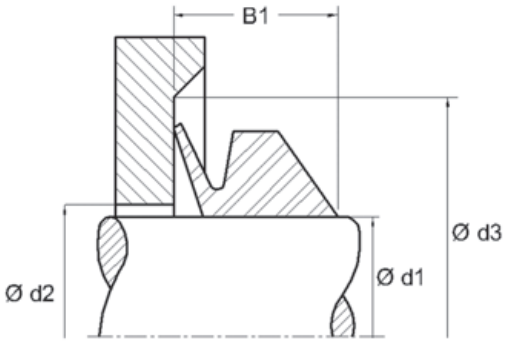
Ref. Number	For shaft diameter d1 min.	For shaft diameter d1 max.	Ød	Section height C	Section width A	Section width B (before installation)	Section width B1 (after installation)	Diameter max. d2	Diameter min. d3	$
V-0110L/V*	105.00	115.00	99.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	d1 + 20.00	110.99
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	119.75
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	127.27
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	132.45
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	138.19
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	170.17
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	180.62
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	202.47
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	213.39
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	343.69
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	353.46
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	374.35
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	406.40
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	437.99
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	458.17
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	478.03
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	519.88
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	558.32
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	682.38
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	805.20
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	1004.75
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	1050.87
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	1098.94
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	1582.86
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	1786.74
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	1974.02
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	2108.97
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	2302.52

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

Type S

Profile and installation dimensions
NBR 65D





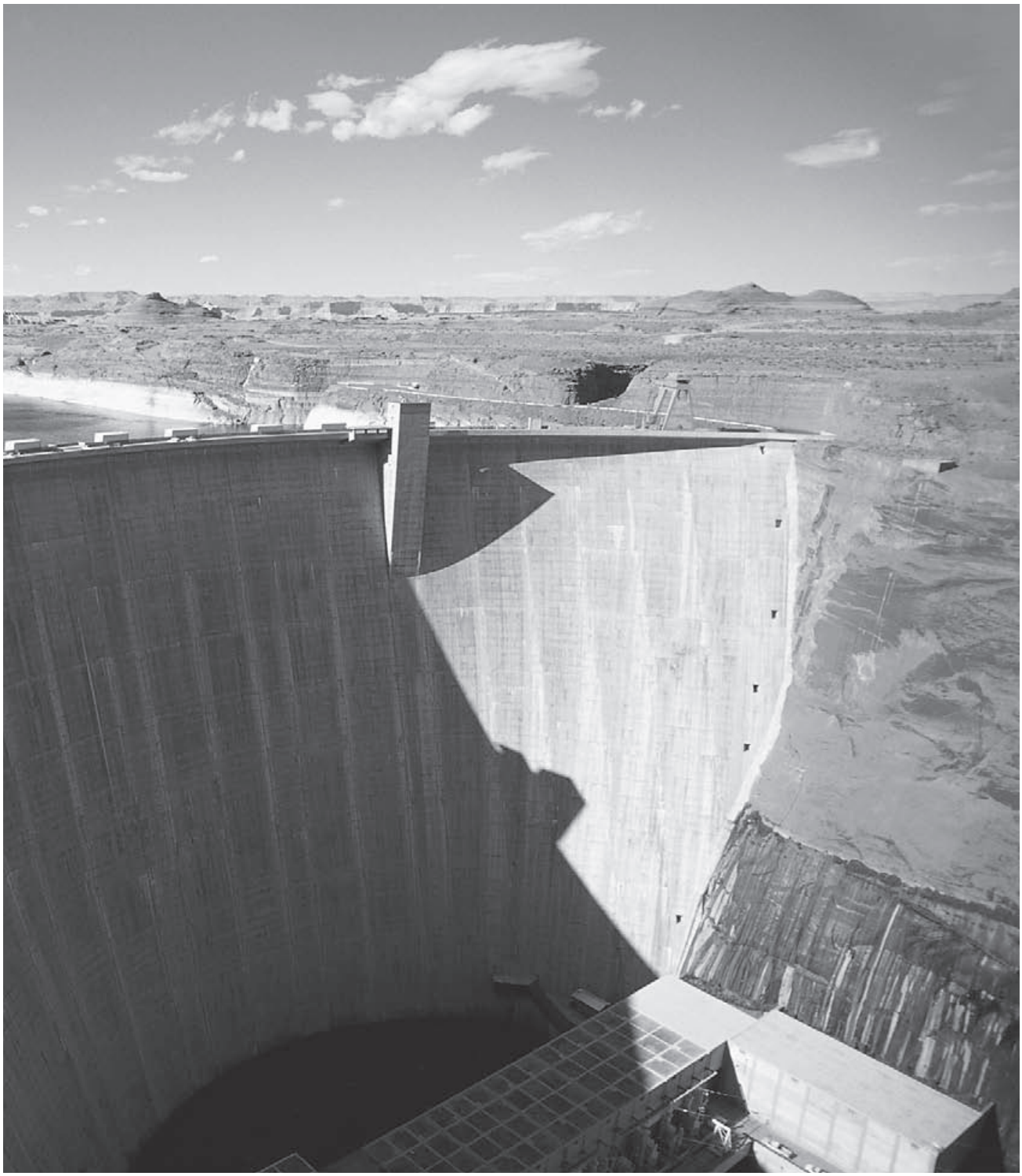
Ref. Number	For shaft diameter d1 min.	d1 max.	Ød	Section height C	Section width A	B (before installation)	B1 (after installation)	Diameter max. d2	Diameter min. d3	CR Reference (NBR)	$
V-0005S*	4.50	5.50	4.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400051	1.59
V-0006S*	5.50	6.50	5.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	d1 + 6.00	400061	1.80
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	1.81
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	1.84
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	1.85
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	1.86
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	1.89
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	1.90
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	2.04
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	2.15
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	2.31
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	2.50
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	2.71
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	2.70
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	2.84
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	2.94
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	3.07
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	3.27
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	3.64
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	3.95
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	4.12
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	4.29
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	4.48
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	4.63
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	4.94
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	5.17
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	5.33
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	5.48
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	5.60
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	6.07
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	7.10
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	8.66
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	10.17
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	12.66
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	13.91
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	19.96
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	21.51

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

V-RINGS - TYPE S

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-0180S*	175.00	- 185.00	162.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	d1 + 24.00	401801	23.61
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	25.34
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	28.86

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

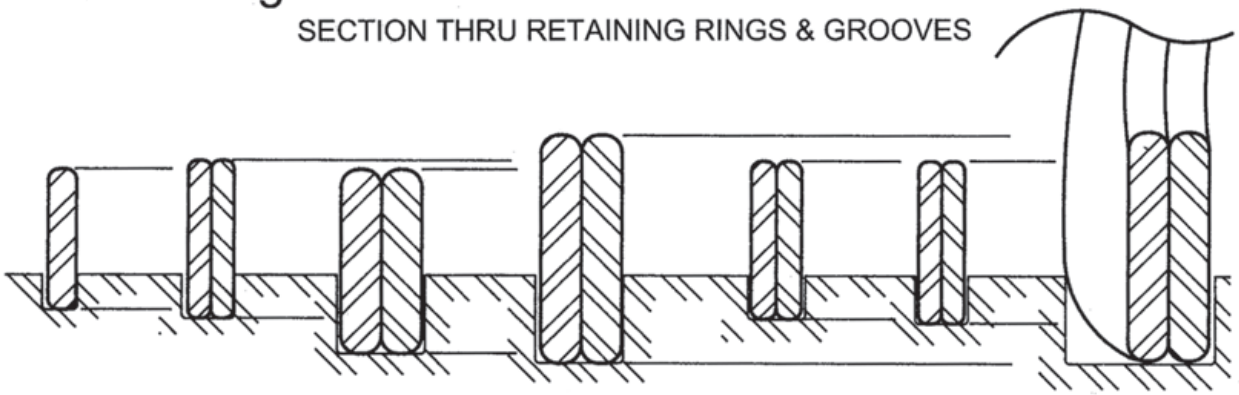


SHIMS	SUPPORT RINGS	D1300	D1400	N1300	N1400
D1460	N1460	B1500	D1500	N1500	N1501
N1540	N1800	A1500 'U'	A1500 'C'	A1500 'S'	M1800
D2000	D2100	M3200	M2300	M2400	A0500
A0600	A0700	A0900	A1000	M2500	A1100
A1200	M1700	N1302	M1440	N1440	N1305
M1465	N1465	M1308	M1408	N1308	N1408
PLIERS	APPLICATORS	STACKFEEDAS	VISIPACKS		

Selection Guide

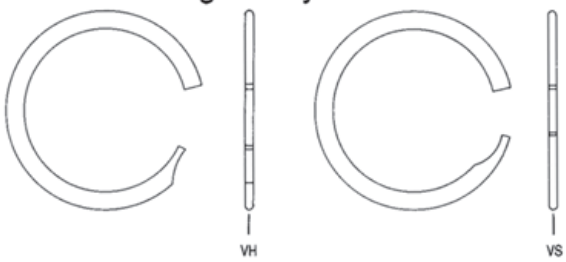
Relative proportions of retaining rings with same housing bore or shaft dimension.

SECTION THRU RETAINING RINGS & GROOVES



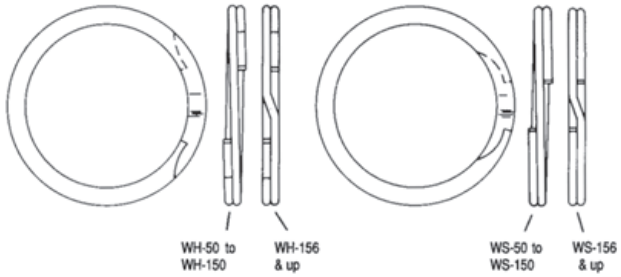
VH & VS	WH & WS	WHT & WST	WHM & WSM	DNH & DNS	EH & ES	WHW & WSW
Light Duty Series	Medium Duty Series	Medium Heavy Duty Series	Heavy Duty Series	DIN Metric Series	Metric Aerospace Series	WaveRing Series

VH & VS Light Duty Series



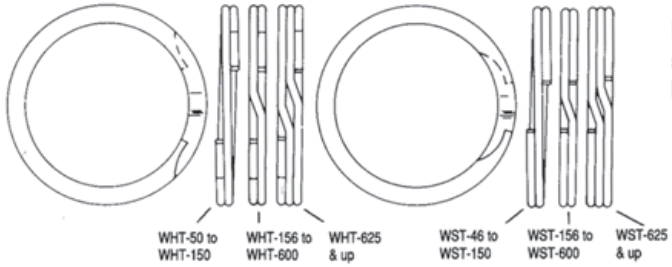
Single-turn retaining rings with narrow radial wall dimensions are recommended for light-duty, low clearance applications, or where axial positioning rather than load carrying is the principal function. Low-cost and easy to use, these rings are ideal for ball or roller bearing applications or other uses 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.

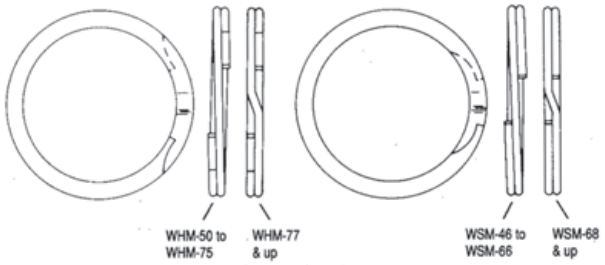
WHT & WST Medium Heavy Duty Series



Many original equipment 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.

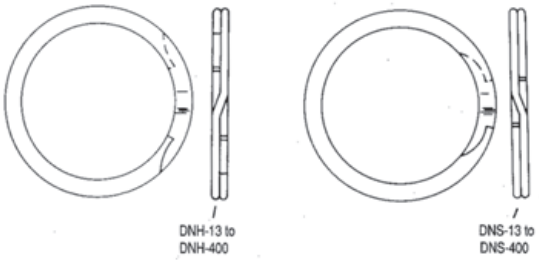
Selection Guide

WHM & WSM Heavy Duty Series



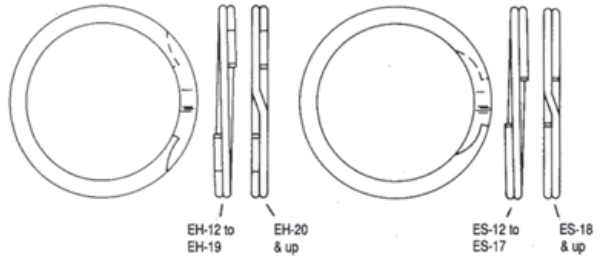
Designed for the toughest retaining ring jobs, this series can handle double row, tapered roller bearing applications, or other thrust loads which demand deep groove, heavy section capacity. WHM and WSM series rings use standard industry groove dimensions and are interchangeable with many stamped (ie: Snap Rings, Circlips) retaining rings. They meet military and aerospace specifications. Specify on purchase order if rings are to conform to military or aerospace standards.

DNH & DNS DIN Metric Series



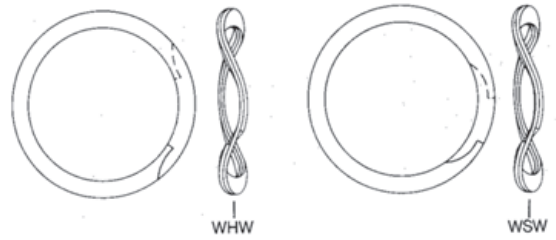
These DIN series retaining rings are Smalley's equivalent to the European or "Hard" metric retaining rings. With their 2-turn offset configuration, the rings will fit into the grooves established by DIN specifications. They are available in both internal and external sizes from 13mm to 400mm and are offered 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 specifically designed for 2-turn spiral rings and accommodate 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.

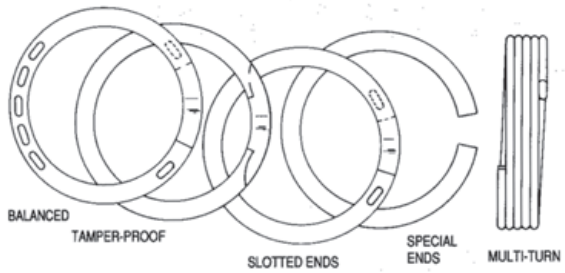
WaveRings®



The WaveRing is a spiral retaining ring with an 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 which 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.

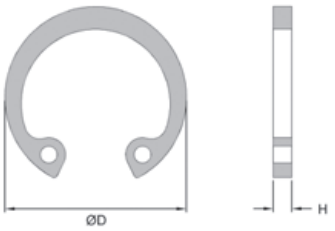
Special Retaining Rings

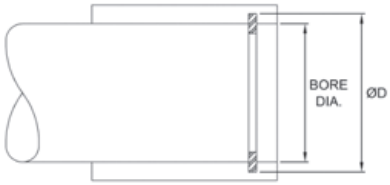


A major segment of Smalley manufacturing is in "special" or prototype retaining rings. Common Smalley specials include balanced, multi-turn (4,5,6 turns and more) and special ends in English and metric diameters from 3/8" to 84" and larger. See pages 50-51 for special ordering guidelines.

N1300
Carbon Steel

INTERNAL





Temperature: N/A **Pressure: N/A**

Ref.Number	Bore Dia.	Nominal Bearing Dimensions		$
		D	H	
N1300-0025*	0.250	0.280	0.015	0.66
N1300-0031	0.312	0.346	0.015	0.66
N1300-0037*	0.375	0.415	0.025	0.66
N1300-0043	0.437	0.482	0.025	0.66
N1300-0050*	0.500	0.548	0.035	0.66
N1300-0051*	0.512	0.560	0.035	0.66
N1300-0056*	0.562	0.620	0.035	0.66
N1300-0062	0.625	0.694	0.035	0.66
N1300-0068	0.687	0.763	0.035	0.66
N1300-0075	0.750	0.831	0.035	0.69
N1300-0077*	0.777	0.859	0.042	0.69
N1300-0081	0.812	0.901	0.042	0.69
N1300-0086*	0.866	0.961	0.042	0.69
N1300-0087	0.875	0.971	0.042	0.69
N1300-0090*	0.901	1.000	0.042	0.69
N1300-0093	0.937	1.041	0.042	0.69
N1300-0100	1.000	1.111	0.042	0.69
N1300-0102	1.023	1.136	0.042	0.69
N1300-0106*	1.062	1.180	0.050	0.69
N1300-0112	1.125	1.249	0.050	0.72
N1300-0118	1.187	1.319	0.050	1.11
N1300-0125	1.250	1.388	0.050	1.11
N1300-0131	1.312	1.456	0.050	1.11
N1300-0137	1.375	1.526	0.050	1.11
N1300-0143	1.437	1.596	0.050	1.11
N1300-0145	1.456	1.616	0.050	1.11
N1300-0150	1.500	1.660	0.050	1.11
N1300-0156	1.562	1.734	0.062	1.52
N1300-0162	1.625	1.804	0.062	1.52
N1300-0165	1.653	1.835	0.062	1.52
N1300-0168	1.687	1.874	0.062	2.86
N1300-0175	1.750	1.942	0.062	2.86
N1300-0181	1.812	2.012	0.062	2.86
N1300-0185*	1.850	2.054	0.062	2.86
N1300-0187	1.875	2.072	0.062	2.86
N1300-0193	1.937	2.141	0.062	2.86
N1300-0200	2.000	2.210	0.062	2.86

Ref.Number	Bore Dia.	Nominal Bearing Dimensions		$
		D	H	
N1300-0206	2.062	2.280	0.078	3.04
N1300-0212	2.125	2.350	0.078	3.25
N1300-0218	2.187	2.415	0.078	3.25
N1300-0225	2.250	2.490	0.078	3.25
N1300-0231*	2.312	2.560	0.078	3.25
N1300-0237	2.375	2.630	0.078	3.25
N1300-0244	2.440	2.702	0.078	3.37
N1300-0250	2.500	2.775	0.078	3.61
N1300-0256	2.562	2.844	0.093	4.16
N1300-0262	2.625	2.910	0.093	6.71
N1300-0268	2.687	2.980	0.093	6.71
N1300-0275	2.750	3.050	0.093	6.71
N1300-0281	2.812	3.121	0.093	7.44
N1300-0287	2.875	3.191	0.093	7.44
N1300-0300	3.000	3.325	0.093	7.44
N1300-0306	3.062	3.418	0.109	7.44
N1300-0312*	3.125	3.488	0.109	8.42
N1300-0315	3.156	3.523	0.109	8.42
N1300-0325	3.250	3.623	0.109	8.80
N1300-0347	3.437	3.857	0.109	8.80
N1300-0350	3.500	3.890	0.109	8.80
N1300-0354	3.543	3.936	0.109	9.04
N1300-0362	3.625	4.024	0.109	9.97
N1300-0375	3.750	4.157	0.109	10.15
N1300-0387	3.875	4.291	0.109	10.70
N1300-0393	3.937	4.358	0.109	10.70
N1300-0400	4.000	4.424	0.109	10.70
N1300-0412	4.125	4.558	0.109	12.85
N1300-0425	4.250	4.691	0.109	12.85
N1300-0433	4.331	4.756	0.109	12.85
N1300-0450	4.500	4.940	0.109	12.85
N1300-0462	4.625	5.076	0.109	14.76
N1300-0475	4.750	5.213	0.109	16.04
N1300-0500	5.000	5.485	0.109	16.42
N1300-0525	5.250	5.770	0.125	16.61
N1300-0537*	5.375	5.910	0.125	16.61
N1300-0550	5.500	6.066	0.125	19.26

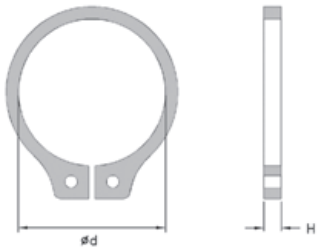
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

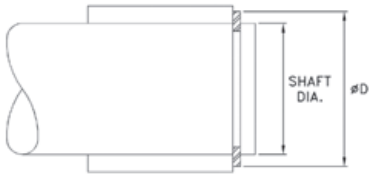
N1300 SERIES - RETAINING RING

Ref.Number	Bore Dia.	Nominal Bearing Dimensions		$
		D	H	
N1300-0575	5.750	6.336	0.125	19.26
N1300-0600	6.000	6.620	0.125	29.53
N1300-0625	6.250	6.895	0.156	47.80
N1300-0650	6.500	7.170	0.156	49.27
N1300-0662	6.625	7.308	0.156	49.27
N1300-0675*	6.750	7.445	0.156	49.27
N1300-0700	7.000	7.720	0.156	74.87
N1300-0725*	7.250	7.995	0.187	74.87
N1300-0750	7.500	8.270	0.187	74.87
N1300-0775	7.750	8.545	0.187	87.58
N1300-0800	8.000	8.820	0.187	95.67
N1300-0825*	8.250	9.095	0.187	114.10
N1300-0850	8.500	9.285	0.187	140.04
N1300-0875*	8.750	9.558	0.187	140.04
N1300-0900*	9.000	9.830	0.187	159.33
N1300-0925	9.250	10.102	0.187	167.56
N1300-0950*	9.500	10.375	0.187	205.08
N1300-0975*	9.750	10.648	0.187	219.48
N1300-1000*	10.000	10.920	0.187	232.65

N1400
Carbon Steel

EXTERNAL





Temperature: N/A

Pressure: N/A

Ref.Number	Shaft Dia.	Nominal Bearing Dimensions		$
		d	H	
N1400-0012	0.125	0.112	0.010	0.51
N1400-0015*	0.156	0.142	0.010	0.51
N1400-0018*	0.187	0.168	0.015	0.51
N1400-0019*	0.197	0.179	0.015	0.51
N1400-0021*	0.219	0.196	0.015	0.51
N1400-0023*	0.236	0.215	0.015	0.51
N1400-0025*	0.250	0.225	0.025	0.51
N1400-0027*	0.276	0.250	0.025	0.51
N1400-0028*	0.281	0.256	0.025	0.51
N1400-0031*	0.312	0.281	0.025	0.51
N1400-0034*	0.344	0.309	0.025	0.51
N1400-0035*	0.354	0.320	0.025	0.51
N1400-0037	0.375	0.338	0.025	0.51
N1400-0039	0.394	0.354	0.025	0.51
N1400-0040*	0.406	0.366	0.025	0.51
N1400-0043	0.437	0.395	0.025	0.51
N1400-0050	0.500	0.461	0.035	0.64
N1400-0056	0.562	0.521	0.035	0.64
N1400-0059*	0.594	0.550	0.035	0.64
N1400-0062	0.625	0.579	0.035	0.64
N1400-0066*	0.669	0.621	0.035	0.64
N1400-0068	0.687	0.635	0.042	0.64
N1400-0075	0.750	0.693	0.042	0.64
N1400-0078	0.781	0.722	0.042	0.64
N1400-0081	0.812	0.751	0.042	0.67
N1400-0087	0.875	0.810	0.042	0.67
N1400-0093*	0.937	0.867	0.042	0.67
N1400-0098	0.984	0.910	0.042	0.67
N1400-0100	1.000	0.925	0.042	0.70
N1400-0102*	1.023	0.946	0.042	0.70
N1400-0106	1.062	0.982	0.050	0.70
N1400-0112	1.125	1.041	0.050	0.97
N1400-0118	1.187	1.098	0.050	0.97
N1400-0125	1.250	1.156	0.050	0.97
N1400-0131	1.312	1.214	0.050	0.97
N1400-0137	1.375	1.272	0.050	0.97
N1400-0143*	1.437	1.333	0.050	0.97
N1400-0150	1.500	1.387	0.050	1.02
N1400-0156	1.562	1.446	0.062	1.02
N1400-0162	1.625	1.503	0.062	1.38

N1400 SERIES - RETAINING RING

Ref.Number	Shaft Dia.	Nominal Bearing Dimensions		$
		d	H	
N1400-0168	1.687	1.560	0.062	1.38
N1400-0175	1.750	1.618	0.062	1.73
N1400-0177	1.772	1.618	0.062	1.73
N1400-0181*	1.812	1.675	0.062	1.73
N1400-0187	1.875	1.735	0.062	1.73
N1400-0196	1.969	1.819	0.062	2.66
N1400-0200	2.000	1.850	0.062	2.66
N1400-0206*	2.062	1.906	0.078	2.66
N1400-0212	2.125	1.964	0.078	3.09
N1400-0215	2.156	1.993	0.078	3.09
N1400-0225	2.250	2.081	0.078	3.09
N1400-0231	2.312	2.139	0.078	3.09
N1400-0237	2.375	2.197	0.078	3.09
N1400-0243	2.437	2.255	0.078	3.09
N1400-0250	2.500	2.313	0.078	5.83
N1400-0255	2.559	2.377	0.078	5.83
N1400-0262*	2.625	2.428	0.078	5.85
N1400-0268	2.687	2.485	0.078	5.85
N1400-0275	2.750	2.543	0.093	5.93
N1400-0287	2.875	2.659	0.093	6.26
N1400-0293*	2.937	2.717	0.093	6.26
N1400-0300	3.000	2.775	0.093	6.26
N1400-0306*	3.062	2.832	0.093	6.26
N1400-0312	3.125	2.892	0.093	6.26
N1400-0315	3.156	2.920	0.093	6.26
N1400-0325	3.250	3.006	0.093	8.75
N1400-0334	3.346	3.092	0.093	9.60
N1400-0343	3.437	3.179	0.093	10.26

Ref.Number	Shaft Dia.	Nominal Bearing Dimensions		$
		d	H	
N1400-0350	3.500	3.237	0.109	11.06
N1400-0354*	3.543	3.277	0.109	11.72
N1400-0362	3.625	3.352	0.109	12.79
N1400-0368*	3.687	3.410	0.109	13.16
N1400-0375	3.750	3.468	0.109	13.80
N1400-0387*	3.875	3.584	0.109	14.24
N1400-0393*	3.937	3.642	0.109	15.79
N1400-0400	4.000	3.700	0.109	16.08
N1400-0425	4.250	3.989	0.109	17.40
N1400-0437*	4.375	4.106	0.109	18.78
N1400-0450	4.500	4.223	0.109	21.10
N1400-0475	4.750	4.458	0.109	24.02
N1400-0500	5.000	4.692	0.109	28.10
N1400-0525	5.250	4.927	0.125	32.97
N1400-0550*	5.500	5.162	0.125	41.73
N1400-0575*	5.750	5.396	0.125	48.49
N1400-0600*	6.000	5.631	0.125	54.66
N1400-0625*	6.250	5.866	0.156	66.42
N1400-0650*	6.500	6.100	0.156	72.27
N1400-0675*	6.750	6.335	0.156	77.10
N1400-0700*	7.000	6.570	0.156	80.63
N1400-0750*	7.500	7.039	0.187	120.86
N1400-0800*	8.000	7.508	0.187	137.83
N1400-0850*	8.500	7.977	0.187	162.78
N1400-0900*	9.000	8.445	0.187	204.80
N1400-0950*	9.500	8.915	0.187	205.30
N1400-1000*	10.000	9.385	0.187	247.37

*** : 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-25*	0.250	0.262	.015	0.264	(+0.10/-.000)	.012	(+/-.0015)	.020	(+/-.004)	481	106	O/R
VH-31*	0.312	0.326	.018	0.329	(+0.10/-.000)	.015	(+/-.0015)	.025	(+.004/-.004)	750	154	O/R
VH-37*	0.375	0.395	.018	0.398	(+0.10/-.000)	.015	(+/-.0015)	.030	(+.004/-.004)	901	265	O/R
VH-43*	0.437	0.463	.018	0.466	(+.012/-.000)	.015	(+/-.0015)	.030	(+.004/-.004)	1,050	402	O/R
VH-50*	0.500	0.528	.022	0.531	(+.013/-.000)	.018	(+/-.0015)	.045	(+.004/-.004)	1,300	500	O/R
VH-56*	0.562	0.590	.022	0.593	(+.013/-.000)	.018	(+/-.0015)	.045	(+.004/-.004)	1,460	560	O/R
VH-62*	0.625	0.653	.022	0.656	(+.013/-.000)	.018	(+/-.0015)	.045	(+.004/-.004)	1,630	620	O/R
VH-68*	0.687	0.715	.022	0.719	(+.013/-.000)	.018	(+/-.0015)	.045	(+.004/-.004)	1,790	680	O/R
VH-75*	0.750	0.779	.022	0.783	(+.013/-.000)	.018	(+/-.0015)	.045	(+.004/-.004)	1,950	800	O/R
VH-81*	0.812	0.854	.026	0.862	(+.013/-.000)	.021	(+/-.0015)	.065	(+.004/-.004)	2,460	1,210	O/R
VH-87*	0.875	0.917	.026	0.926	(+.013/-.000)	.021	(+/-.0015)	.065	(+.004/-.004)	2,660	1,300	O/R
VH-93*	0.937	0.979	.026	0.989	(+.013/-.000)	.021	(+/-.0015)	.065	(+.004/-.004)	2,840	1,390	O/R
VH-100*	1.000	1.042	.026	1.052	(+.013/-.000)	.021	(+/-.0015)	.065	(+.004/-.004)	3,040	1,480	O/R
VH-106*	1.062	1.106	.031	1.117	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	3,500	1,650	O/R
VH-112*	1.125	1.169	.031	1.180	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	3,710	1,750	O/R
VH-118*	1.187	1.231	.031	1.242	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	3,920	1,850	O/R
VH-125*	1.250	1.294	.031	1.307	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	4,120	1,940	O/R
VH-131*	1.312	1.356	.031	1.369	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	4,330	2,040	O/R
VH-137*	1.375	1.419	.031	1.433	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	4,540	2,140	0.89
VH-143*	1.437	1.481	.031	1.496	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	4,740	2,240	O/R
VH-150*	1.500	1.544	.031	1.559	(+.015/-.000)	.025	(+/-.0015)	.088	(+.004/-.004)	4,950	2,330	1.10
VH-156*	1.562	1.619	.039	1.637	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	6,390	3,200	O/R
VH-162*	1.625	1.682	.039	1.701	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	6,650	3,330	1.10
VH-168*	1.687	1.744	.039	1.763	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	6,900	3,460	O/R
VH-175*	1.750	1.807	.039	1.827	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	7,160	3,590	O/R
VH-181*	1.812	1.869	.039	1.890	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	7,410	3,710	O/R
VH-187*	1.875	1.932	.039	1.953	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	7,670	3,840	1.36
VH-193*	1.937	1.994	.039	2.016	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	7,920	3,970	O/R
VH-200*	2.000	2.057	.039	2.079	(+.020/-.000)	.031	(+/-.002)	.118	(+.004/-.004)	8,180	4,100	1.46
VH-206*	2.062	2.138	.039	2.162	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	8,430	5,540	2.13
VH-212*	2.125	2.201	.039	2.226	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	8,690	5,710	O/R
VH-218*	2.187	2.263	.039	2.289	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	8,950	5,870	O/R
VH-225*	2.250	2.326	.039	2.352	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	9,200	6,040	2.78
VH-231*	2.312	2.388	.039	2.415	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	9,460	6,210	9.89
VH-237*	2.375	2.451	.039	2.478	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	9,720	6,380	O/R
VH-243*	2.437	2.513	.039	2.541	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	9,970	6,550	3.35
VH-250*	2.500	2.576	.039	2.605	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	10,230	6,720	2.07
VH-256*	2.562	2.638	.039	2.667	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	10,480	6,880	O/R
VH-262*	2.625	2.701	.039	2.731	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	10,740	7,050	O/R
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	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	11,250	7,390	O/R
VH-281*	2.812	2.888	.039	2.920	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	11,500	7,550	5.38
VH-287*	2.875	2.951	.039	2.983	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	11,760	7,720	O/R
VH-293*	2.937	3.013	.039	3.046	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	12,010	7,890	O/R
VH-300*	3.000	3.076	.039	3.110	(+.025/-.000)	.031	(+/-.002)	.158	(+.004/-.004)	12,270	8,060	2.17
VH-306*	3.062	3.154	.044	3.188	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	15,760	9,960	O/R
VH-312*	3.125	3.217	.044	3.251	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	16,080	10,160	O/R
VH-318	3.187	3.279	.044	3.314	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	16,400	10,360	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-325*	3.250	3.342	.044	3.377	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	16,720	10,570	O/R
VH-331*	3.312	3.404	.044	3.440	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	17,040	10,770	O/R
VH-337*	3.375	3.467	.044	3.504	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	17,370	10,970	O/R
VH-343*	3.437	3.529	.044	3.566	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	17,690	11,180	O/R
VH-350*	3.500	3.592	.044	3.630	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	18,010	11,380	5.34
VH-356*	3.562	3.654	.044	3.692	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	18,330	11,580	O/R
VH-362*	3.625	3.717	.044	3.756	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	18,650	11,790	O/R
VH-368*	3.687	3.779	.044	3.819	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	18,970	11,990	O/R
VH-375*	3.750	3.842	.044	3.882	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	19,300	12,190	O/R
VH-381*	3.812	3.904	.044	3.945	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	19,620	12,400	O/R
VH-387*	3.875	3.967	.044	4.009	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	19,940	12,600	O/R
VH-393*	3.937	4.029	.044	4.071	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	20,260	12,800	O/R
VH-400	4.000	4.092	.044	4.135	(+.030/-.000)	.039	(+/-.002)	.188	(+.005/-.005)	20,580	13,010	O/R
VH-412*	4.125	4.235	.052	4.279	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	23,850	16,040	7.84
VH-425*	4.250	4.360	.052	4.405	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	24,570	16,520	O/R
VH-437*	4.375	4.485	.052	4.531	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	25,290	17,010	O/R
VH-450*	4.500	4.610	.052	4.658	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	26,010	17,500	O/R
VH-462*	4.625	4.735	.052	4.784	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	26,740	17,980	8.33
VH-475*	4.750	4.860	.052	4.910	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	27,460	18,470	O/R
VH-487*	4.875	4.985	.052	5.036	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	28,180	18,950	O/R
VH-500*	5.000	5.110	.052	5.163	(+.035/-.000)	.046	(+/-.002)	.225	(+.005/-.005)	28,900	19,440	O/R
VH-525*	5.250	5.381	.067	5.435	(+.045/-.000)	.061	(+/-.002)	.225	(+.005/-.005)	40,240	24,490	O/R
VH-550*	5.500	5.638	.067	5.694	(+.045/-.000)	.061	(+/-.002)	.225	(+.005/-.005)	42,160	26,830	8.61
VH-575*	5.750	5.894	.067	5.953	(+.045/-.000)	.061	(+/-.002)	.225	(+.005/-.005)	44,080	29,260	9.33
VH-600*	6.000	6.150	.067	6.212	(+.045/-.000)	.061	(+/-.002)	.265	(+.005/-.005)	45,990	31,810	O/R
VH-625*	6.250	6.406	.067	6.470	(+.045/-.000)	.061	(+/-.002)	.265	(+.005/-.005)	47,910	34,460	O/R
VH-650*	6.500	6.663	.067	6.730	(+.045/-.000)	.061	(+/-.002)	.265	(+.005/-.005)	49,830	37,680	O/R
VH-675*	6.750	6.919	.067	6.988	(+.045/-.000)	.061	(+/-.002)	.265	(+.005/-.005)	51,740	40,560	9.08
VH-700*	7.000	7.175	.067	7.247	(+.045/-.000)	.061	(+/-.002)	.265	(+.005/-.005)	53,660	43,540	O/R
VH-725*	7.250	7.431	.067	7.505	(+.060/-.000)	.061	(+/-.002)	.265	(+.005/-.005)	55,580	46,640	O/R
VH-750*	7.500	7.688	.067	7.765	(+.060/-.000)	.061	(+/-.002)	.265	(+.005/-.005)	57,490	49,830	O/R
VH-775*	7.750	7.944	.067	8.023	(+.060/-.000)	.061	(+/-.002)	.300	(+.004/-.008)	59,410	53,140	O/R
VH-800*	8.000	8.200	.067	8.282	(+.060/-.000)	.061	(+/-.002)	.300	(+.004/-.008)	61,320	56,550	O/R
VH-825*	8.250	8.456	.067	8.541	(+.060/-.000)	.061	(+/-.002)	.300	(+.004/-.008)	63,240	60,070	O/R
VH-850*	8.500	8.713	.067	8.800	(+.060/-.000)	.061	(+/-.002)	.300	(+.004/-.008)	65,160	64,290	O/R
VH-875*	8.750	8.969	.082	9.059	(+.060/-.000)	.076	(+/-.002)	.345	(+.004/-.008)	83,570	68,040	O/R
VH-900*	9.000	9.225	.082	9.317	(+.070/-.000)	.076	(+/-.002)	.345	(+.004/-.008)	85,950	71,890	O/R
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	(+.070/-.000)	.076	(+/-.002)	.345	(+.004/-.008)	90,730	79,910	O/R
VH-975*	9.750	9.994	.082	10.094	(+.070/-.000)	.076	(+/-.002)	.345	(+.004/-.008)	93,120	84,080	O/R
VH-1000*	10.000	10.250	.082	10.353	(+.070/-.000)	.076	(+/-.002)	.345	(+.004/-.008)	95,500	88,360	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-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	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,050	470	O/R
WH-53*	0.531	0.557	.030	0.564	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,130	490	O/R
WH-56*	0.562	0.588	.030	0.594	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,250	520	O/R
WH-59*	0.594	0.619	.030	0.626	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,380	550	O/R
WH-62*	0.625	0.651	.030	0.658	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,500	570	0.75
WH-65*	0.656	0.682	.030	0.689	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,630	600	O/R
WH-68*	0.687	0.713	.030	0.720	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,750	630	O/R
WH-71*	0.718	0.744	.030	0.751	(+.013/-.000)	.025	(+/-.002)	.045	(+.004/-.004)	2,870	660	O/R
WH-75*	0.750	0.782	.036	0.790	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	3,360	850	O/R
WH-77*	0.777	0.808	.036	0.817	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	3,480	880	O/R
WH-78*	0.781	0.812	.036	0.821	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	3,500	880	0.79
WH-81*	0.812	0.843	.036	0.853	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	3,640	920	O/R
WH-84*	0.843	0.880	.036	0.889	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	3,780	1,130	O/R
WH-86*	0.866	0.903	.036	0.913	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	3,880	1,160	O/R
WH-87*	0.875	0.912	.036	0.922	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	3,920	1,180	0.80
WH-90*	0.906	0.943	.036	0.953	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	4,060	1,220	O/R
WH-93*	0.938	0.975	.036	0.986	(+.013/-.000)	.031	(+/-.002)	.065	(+.004/-.004)	4,200	1,260	O/R
WH-96*	0.968	1.011	.042	1.022	(+.013/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	5,180	1,440	O/R
WH-98*	0.987	1.030	.042	1.041	(+.013/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	5,280	1,470	O/R
WH-100*	1.000	1.043	.042	1.054	(+.013/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	5,350	1,480	0.83
WH-102*	1.023	1.066	.042	1.078	(+.013/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	5,470	1,520	O/R
WH-103*	1.031	1.074	.042	1.084	(+.013/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	5,510	1,530	O/R
WH-106*	1.062	1.104	.042	1.117	(+.015/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	5,680	1,580	O/R
WH-109*	1.093	1.135	.042	1.147	(+.015/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	5,840	1,620	O/R
WH-112*	1.125	1.167	.042	1.180	(+.015/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	6,020	1,670	0.83
WH-115*	1.156	1.198	.042	1.210	(+.015/-.000)	.037	(+/-.002)	.075	(+.004/-.004)	6,180	1,720	O/R
WH-118*	1.188	1.236	.048	1.249	(+.015/-.000)	.043	(+/-.002)	.085	(+.004/-.004)	7,380	2,020	O/R
WH-121*	1.218	1.266	.048	1.278	(+.015/-.000)	.043	(+/-.002)	.085	(+.004/-.004)	7,570	2,070	O/R
WH-125*	1.250	1.298	.048	1.312	(+.015/-.000)	.043	(+/-.002)	.085	(+.004/-.004)	7,770	2,120	0.89
WH-128	1.281	1.329	.048	1.342	(+.015/-.000)	.043	(+/-.002)	.085	(+.004/-.004)	7,960	2,170	0.92
WH-131*	1.312	1.360	.048	1.374	(+.015/-.000)	.043	(+/-.002)	.085	(+.004/-.004)	8,150	2,230	O/R
WH-134*	1.343	1.395	.048	1.408	(+.015/-.000)	.043	(+/-.002)	.085	(+.004/-.004)	8,350	2,470	O/R
WH-137*	1.375	1.427	.048	1.442	(+.015/-.000)	.043	(+/-.002)	.095	(+.004/-.004)	8,540	2,530	1.32
WH-140*	1.406	1.458	.048	1.472	(+.015/-.000)	.043	(+/-.002)	.095	(+.004/-.004)	8,740	2,580	O/R
WH-143*	1.437	1.489	.048	1.504	(+.015/-.000)	.043	(+/-.002)	.095	(+.004/-.004)	8,930	2,640	O/R
WH-145*	1.456	1.508	.048	1.523	(+.015/-.000)	.043	(+/-.002)	.095	(+.004/-.004)	9,050	2,680	O/R
WH-146*	1.468	1.520	.048	1.535	(+.015/-.000)	.043	(+/-.002)	.095	(+.004/-.004)	9,120	2,700	O/R
WH-150	1.500	1.552	.048	1.567	(+.015/-.000)	.043	(+/-.002)	.095	(+.004/-.004)	9,320	2,760	1.55
WH-156	1.562	1.617	.056	1.634	(+.020/-.000)	.049	(+/-.003)	.108	(+.004/-.004)	10,100	3,090	1.77
WH-157*	1.574	1.633	.056	1.649	(+.020/-.000)	.049	(+/-.003)	.108	(+.004/-.004)	10,180	3,340	O/R
WH-162*	1.625	1.684	.056	1.701	(+.020/-.000)	.049	(+/-.003)	.108	(+.004/-.004)	10,510	3,350	3.93
WH-165*	1.653	1.712	.056	1.730	(+.020/-.000)	.049	(+/-.003)	.108	(+.004/-.004)	10,690	3,510	O/R
WH-168*	1.687	1.750	.056	1.768	(+.020/-.000)	.049	(+/-.003)	.118	(+.004/-.004)	10,910	3,700	O/R
WH-175*	1.750	1.813	.056	1.834	(+.020/-.000)	.049	(+/-.003)	.118	(+.004/-.004)	11,310	3,840	1.77
WH-181*	1.813	1.875	.056	1.894	(+.020/-.000)	.049	(+/-.003)	.118	(+.004/-.004)	11,720	3,970	O/R
WH-185*	1.850	1.917	.056	1.937	(+.020/-.000)	.049	(+/-.003)	.118	(+.004/-.004)	11,960	4,450	O/R
WH-187*	1.875	1.942	.056	1.960	(+.020/-.000)	.049	(+/-.003)	.118	(+.004/-.004)	12,120	4,510	2.27

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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-193*	1.938	2.005	.056	2.025	(+.020/-.000)	.049	(+/-.003)	.118	(+.004/-.004)	12,530	4,660	O/R
WH-200	2.000	2.071	.056	2.091	(+.020/-.000)	.049	(+/-.003)	.128	(+.004/-.004)	12,930	4,950	2.59
WH-204*	2.047	2.118	.056	2.138	(+.020/-.000)	.049	(+/-.003)	.128	(+.004/-.004)	13,240	5,060	2.78
WH-206*	2.062	2.132	.056	2.154	(+.025/-.000)	.049	(+/-.003)	.128	(+.004/-.004)	13,330	5,100	O/R
WH-212*	2.125	2.195	.056	2.217	(+.025/-.000)	.049	(+/-.003)	.128	(+.004/-.004)	13,740	5,260	O/R
WH-216*	2.165	2.239	.056	2.260	(+.025/-.000)	.049	(+/-.003)	.138	(+.004/-.004)	14,000	5,660	O/R
WH-218*	2.188	2.262	.056	2.284	(+.025/-.000)	.049	(+/-.003)	.138	(+.004/-.004)	14,150	5,720	O/R
WH-225*	2.250	2.324	.056	2.347	(+.025/-.000)	.049	(+/-.003)	.138	(+.004/-.004)	14,550	5,890	O/R
WH-231*	2.312	2.390	.056	2.413	(+.025/-.000)	.049	(+/-.003)	.138	(+.004/-.004)	14,950	6,370	2.99
WH-237*	2.375	2.453	.056	2.476	(+.025/-.000)	.049	(+/-.003)	.138	(+.004/-.004)	15,360	6,550	2.99
WH-243*	2.437	2.519	.056	2.543	(+.025/-.000)	.049	(+/-.003)	.148	(+.004/-.004)	15,760	7,060	O/R
WH-244*	2.440	2.522	.056	2.546	(+.025/-.000)	.049	(+/-.003)	.148	(+.004/-.004)	15,780	7,070	O/R
WH-250	2.500	2.582	.056	2.606	(+.025/-.000)	.049	(+/-.003)	.148	(+.004/-.004)	16,160	7,250	3.70
WH-253*	2.531	2.617	.056	2.641	(+.025/-.000)	.049	(+/-.003)	.148	(+.004/-.004)	16,360	7,690	O/R
WH-256	2.562	2.648	.056	2.673	(+.025/-.000)	.049	(+/-.003)	.148	(+.004/-.004)	16,560	7,790	3.89
WH-262*	2.625	2.711	.056	2.736	(+.025/-.000)	.049	(+/-.003)	.148	(+.004/-.004)	16,970	7,980	O/R
WH-267*	2.677	2.767	.056	2.789	(+.025/-.000)	.049	(+/-.003)	.158	(+.004/-.004)	17,310	8,520	O/R
WH-268*	2.688	2.778	.056	2.803	(+.025/-.000)	.049	(+/-.003)	.158	(+.004/-.004)	17,380	8,550	O/R
WH-275*	2.750	2.841	.056	2.865	(+.025/-.000)	.049	(+/-.003)	.158	(+.004/-.004)	17,780	8,750	O/R
WH-281*	2.813	2.903	.056	2.929	(+.025/-.000)	.049	(+/-.003)	.158	(+.004/-.004)	18,190	8,950	O/R
WH-283*	2.834	2.928	.056	2.954	(+.025/-.000)	.049	(+/-.003)	.168	(+.005/-.005)	18,320	9,520	3.94
WH-287*	2.875	2.969	.056	2.995	(+.025/-.000)	.049	(+/-.003)	.168	(+.005/-.005)	18,590	9,550	5.37
WH-293*	2.937	3.031	.056	3.058	(+.025/-.000)	.049	(+/-.003)	.168	(+.005/-.005)	18,990	9,760	O/R
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	(+.025/-.000)	.061	(+/-.003)	.168	(+.005/-.005)	24,150	10,180	3.81
WH-306*	3.062	3.158	.068	3.186	(+.030/-.000)	.061	(+/-.003)	.168	(+.005/-.005)	24,650	10,390	O/R
WH-312*	3.125	3.223	.068	3.251	(+.030/-.000)	.061	(+/-.003)	.178	(+.005/-.005)	25,150	10,600	O/R
WH-314*	3.149	3.247	.068	3.276	(+.030/-.000)	.061	(+/-.003)	.178	(+.005/-.005)	25,350	10,680	O/R
WH-318*	3.187	3.283	.068	3.311	(+.030/-.000)	.061	(+/-.003)	.178	(+.005/-.005)	25,650	10,810	O/R
WH-325*	3.250	3.350	.068	3.379	(+.030/-.000)	.061	(+/-.003)	.178	(+.005/-.005)	26,160	11,490	6.21
WH-331*	3.312	3.416	.068	3.446	(+.030/-.000)	.061	(+/-.003)	.188	(+.005/-.005)	26,660	12,170	O/R
WH-334*	3.346	3.450	.068	3.479	(+.030/-.000)	.061	(+/-.003)	.188	(+.005/-.005)	26,930	12,300	O/R
WH-337*	3.375	3.479	.068	3.509	(+.030/-.000)	.061	(+/-.003)	.188	(+.005/-.005)	27,170	12,410	O/R
WH-343*	3.437	3.543	.068	3.574	(+.030/-.000)	.061	(+/-.003)	.188	(+.005/-.005)	27,660	12,880	O/R
WH-350	3.500	3.606	.068	3.636	(+.030/-.000)	.061	(+/-.003)	.188	(+.005/-.005)	28,170	13,110	4.02
WH-354*	3.543	3.653	.068	3.684	(+.030/-.000)	.061	(+/-.003)	.198	(+.005/-.005)	28,520	13,770	O/R
WH-356*	3.562	3.672	.068	3.703	(+.030/-.000)	.061	(+/-.003)	.198	(+.005/-.005)	28,670	13,850	5.08
WH-362*	3.625	3.737	.068	3.769	(+.030/-.000)	.061	(+/-.003)	.198	(+.005/-.005)	29,180	14,350	O/R
WH-368*	3.687	3.799	.068	3.832	(+.030/-.000)	.061	(+/-.003)	.198	(+.005/-.005)	29,680	14,600	O/R
WH-374*	3.740	3.852	.068	3.885	(+.030/-.000)	.061	(+/-.003)	.198	(+.005/-.005)	30,100	14,800	O/R
WH-375*	3.750	3.862	.068	3.894	(+.030/-.000)	.061	(+/-.003)	.198	(+.005/-.005)	30,180	14,840	O/R
WH-381*	3.812	3.930	.068	3.963	(+.030/-.000)	.061	(+/-.003)	.208	(+.005/-.005)	30,680	15,900	O/R
WH-387*	3.875	3.993	.068	4.025	(+.030/-.000)	.061	(+/-.003)	.208	(+.005/-.005)	31,190	16,160	O/R
WH-393*	3.938	4.056	.068	4.089	(+.030/-.000)	.061	(+/-.003)	.208	(+.005/-.005)	31,700	16,420	O/R
WH-400	4.000	4.124	.068	4.157	(+.030/-.000)	.061	(+/-.003)	.218	(+.005/-.005)	32,200	17,530	5.60
WH-406*	4.063	4.187	.068	4.222	(+.030/-.000)	.061	(+/-.003)	.218	(+.005/-.005)	32,700	17,810	7.15
WH-412*	4.125	4.249	.068	4.284	(+.035/-.000)	.061	(+/-.003)	.218	(+.005/-.005)	33,200	18,080	O/R
WH-418*	4.188	4.311	.068	4.347	(+.035/-.000)	.061	(+/-.003)	.218	(+.005/-.005)	33,710	18,350	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-425*	4.250	4.380	.068	4.416	(+.035/-.000)	.061	(+/-.003)	.228	(+.005/-.005)	34,210	19,530	O/R
WH-431*	4.312	4.442	.068	4.479	(+.035/-.000)	.061	(+/-.003)	.228	(+.005/-.005)	34,710	19,810	O/R
WH-433*	4.330	4.460	.068	4.497	(+.035/-.000)	.061	(+/-.003)	.228	(+.005/-.005)	34,850	19,900	O/R
WH-437*	4.375	4.505	.068	4.543	(+.035/-.000)	.061	(+/-.003)	.228	(+.005/-.005)	35,210	20,100	O/R
WH-443*	4.437	4.573	.068	4.611	(+.035/-.000)	.061	(+/-.003)	.238	(+.005/-.005)	35,710	21,330	O/R
WH-450*	4.500	4.636	.068	4.674	(+.035/-.000)	.061	(+/-.003)	.238	(+.005/-.005)	36,220	21,630	5.79
WH-452*	4.527	4.663	.068	4.701	(+.035/-.000)	.061	(+/-.003)	.238	(+.005/-.005)	36,440	21,760	O/R
WH-456*	4.562	4.698	.068	4.737	(+.035/-.000)	.061	(+/-.003)	.238	(+.005/-.005)	36,720	21,930	O/R
WH-462*	4.625	4.765	.079	4.803	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	43,940	22,890	O/R
WH-468*	4.687	4.827	.079	4.867	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	44,530	23,190	O/R
WH-472*	4.724	4.864	.079	4.903	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	44,880	23,370	O/R
WH-475*	4.750	4.890	.079	4.930	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	45,130	23,500	O/R
WH-481*	4.812	4.952	.079	4.993	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	45,720	23,810	O/R
WH-487*	4.875	5.015	.079	5.055	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	46,310	24,120	O/R
WH-492*	4.921	5.061	.079	5.102	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	46,750	24,350	O/R
WH-493*	4.937	5.081	.079	5.122	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	46,900	25,130	O/R
WH-500	5.000	5.144	.079	5.185	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	47,500	25,450	6.83
WH-511*	5.118	5.262	.079	5.304	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	48,620	26,050	O/R
WH-512	5.125	5.269	.079	5.311	(+.035/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	48,690	26,100	O/R
WH-525*	5.250	5.393	.079	5.436	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	49,880	26,720	7.28
WH-537*	5.375	5.522	.079	5.566	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	51,060	28,120	O/R
WH-550	5.500	5.647	.079	5.693	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	52,250	28,770	6.68
WH-551*	5.511	5.658	.079	5.703	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	52,360	28,830	10.18
WH-562*	5.625	5.772	.079	5.818	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	53,440	29,400	O/R
WH-570*	5.708	5.861	.079	5.909	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	54,230	31,070	14.47
WH-575*	5.750	5.903	.079	5.950	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	54,630	31,300	O/R
WH-587*	5.875	6.028	.079	6.077	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	55,810	31,980	O/R
WH-590*	5.905	6.058	.079	6.106	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	56,100	32,140	O/R
WH-600	6.000	6.153	.079	6.202	(+.045/-.000)	.072	(+/-.004)	.250	(+.005/-.005)	57,000	32,660	8.97
WH-612*	6.125	6.297	.094	6.349	(+.045/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	69,500	37,200	8.83
WH-625	6.250	6.422	.094	6.474	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	70,920	37,990	O/R
WH-629*	6.299	6.471	.094	6.524	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	71,480	38,290	O/R
WH-637*	6.375	6.547	.094	6.601	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	72,340	38,750	O/R
WH-650*	6.500	6.672	.094	6.726	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	73,760	39,510	O/R
WH-662*	6.625	6.807	.094	6.863	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	75,180	42,620	O/R
WH-669*	6.692	6.874	.094	6.931	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	75,940	43,050	O/R
WH-675*	6.750	6.932	.094	6.987	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	76,600	43,420	O/R
WH-687*	6.875	7.057	.094	7.114	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	78,010	44,220	O/R
WH-700*	7.000	7.182	.094	7.239	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	79,430	45,030	16.48
WH-708*	7.086	7.278	.094	7.337	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	80,410	48,080	O/R
WH-712*	7.125	7.317	.094	7.376	(+.055/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	80,850	48,350	16.42
WH-725*	7.250	7.442	.094	7.501	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	82,270	49,200	O/R
WH-737*	7.375	7.567	.094	7.628	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	83,690	50,050	O/R
WH-748*	7.480	7.672	.094	7.734	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	84,880	50,760	O/R
WH-750*	7.500	7.692	.094	7.754	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	85,110	50,890	17.32
WH-762*	7.625	7.827	.094	7.890	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	86,520	54,440	O/R
WH-775*	7.750	7.952	.094	8.014	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	87,940	55,330	O/R
WH-787*	7.875	8.077	.094	8.141	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	89,360	63,360	O/R

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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-800*	8.000	8.202	.094	8.266	(+.065/-.000)	.086	(+/-.004)	.312	(+.006/-.006)	90,780	57,110	O/R
WH-825*	8.250	8.462	.094	8.528	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	93,620	61,820	O/R
WH-826*	8.267	8.479	.094	8.546	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	93,810	61,940	O/R
WH-846*	8.464	8.676	.094	8.744	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	96,050	63,420	O/R
WH-850*	8.500	8.712	.094	8.780	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	96,450	63,690	26.66
WH-875	8.750	8.972	.094	9.041	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	99,290	68,650	O/R
WH-885*	8.858	9.080	.094	9.151	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	100,520	69,500	O/R
WH-900*	9.000	9.222	.094	9.293	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	102,130	70,620	O/R
WH-905*	9.055	9.287	.094	9.359	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	102,750	74,250	O/R
WH-925*	9.250	9.482	.094	9.555	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	104,960	75,850	O/R
WH-944*	9.448	9.680	.094	9.755	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	107,210	77,470	O/R
WH-950*	9.500	9.732	.094	9.806	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	107,800	77,900	O/R
WH-975*	9.750	9.992	.094	10.068	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	110,640	83,390	O/R
WH-1000*	10.000	10.242	.094	10.320	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	113,470	85,530	O/R
WH-1025*	10.250	10.502	.094	10.582	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	116,310	91,290	O/R
WH-1050*	10.500	10.752	.094	10.834	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	119,150	93,520	O/R
WH-1075*	10.750	11.012	.094	11.095	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	121,990	99,540	O/R
WH-1100*	11.000	11.262	.094	11.347	(+.065/-.000)	.086	(+/-.004)	.375	(+.006/-.006)	124,820	101,860	O/R

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-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	(+.010/-.000)	.015	(+.002)	.025	(+.004/-.004)	700	198	O/R
WHM-37*	0.375	0.397	.029	0.400	(+.010/-.000)	.025	(+.002)	.030	(+.004/-.004)	1,442	292	O/R
WHM-43*	0.437	0.461	.029	0.464	(+.012/-.000)	.025	(+.002)	.035	(+.004/-.004)	1,680	371	O/R
WHM-50*	0.500	0.530	.039	0.538	(+.013/-.000)	.035	(+/-.002)	.045	(+.004/-.004)	2,530	530	0.79
WHM-51*	0.512	0.542	.039	0.550	(+.013/-.000)	.035	(+/-.002)	.045	(+.004/-.004)	2,590	540	O/R
WHM-56*	0.562	0.596	.039	0.605	(+.013/-.000)	.035	(+/-.002)	.055	(+.004/-.004)	2,840	680	O/R
WHM-62*	0.625	0.665	.039	0.675	(+.013/-.000)	.035	(+/-.002)	.055	(+.004/-.004)	3,160	880	0.84
WHM-68*	0.688	0.732	.039	0.743	(+.013/-.000)	.035	(+/-.002)	.065	(+.004/-.004)	3,480	1,070	1.01
WHM-75*	0.750	0.796	.039	0.807	(+.013/-.000)	.035	(+/-.002)	.065	(+.004/-.004)	3,790	1,220	1.13
WHM-77*	0.777	0.825	.046	0.836	(+.013/-.000)	.042	(+/-.002)	.075	(+.004/-.004)	4,720	1,320	O/R
WHM-81*	0.812	0.862	.046	0.873	(+.013/-.000)	.042	(+/-.002)	.075	(+.004/-.004)	4,930	1,440	O/R
WHM-86*	0.866	0.920	.046	0.931	(+.013/-.000)	.042	(+/-.002)	.075	(+.004/-.004)	5,260	1,650	O/R
WHM-87*	0.875	0.931	.046	0.943	(+.013/-.000)	.042	(+/-.002)	.085	(+.004/-.004)	5,310	1,730	1.13
WHM-90*	0.901	0.959	.046	0.972	(+.013/-.000)	.042	(+/-.002)	.085	(+.004/-.004)	5,470	1,850	O/R
WHM-93*	0.938	1.000	.046	1.013	(+.013/-.000)	.042	(+/-.002)	.085	(+.004/-.004)	5,690	2,060	O/R
WHM-100*	1.000	1.066	.046	1.080	(+.013/-.000)	.042	(+/-.002)	.085	(+.004/-.004)	6,070	2,330	2.00
WHM-102*	1.023	1.091	.046	1.105	(+.013/-.000)	.042	(+/-.002)	.085	(+.004/-.004)	6,210	2,460	O/R
WHM-106*	1.062	1.130	.056	1.138	(+.013/-.000)	.050	(+/-.002)	.103	(+.004/-.004)	7,010	2,550	O/R
WHM-112*	1.125	1.197	.056	1.205	(+.013/-.000)	.050	(+/-.002)	.103	(+.004/-.004)	7,420	2,860	2.12
WHM-118*	1.188	1.262	.056	1.271	(+.013/-.000)	.050	(+/-.002)	.103	(+.004/-.004)	7,840	3,110	O/R

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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-125*	1.250	1.330	.056	1.339	(+.013/-.000)	.050	(+/-.002)	.103	(+.004/-.004)	8,250	3,530	2.29
WHM-131*	1.312	1.396	.056	1.406	(+.013/-.000)	.050	(+/-.002)	.118	(+.004/-.004)	8,660	3,900	O/R
WHM-137*	1.375	1.461	.056	1.471	(+.013/-.000)	.050	(+/-.002)	.118	(+.004/-.004)	9,070	4,180	2.29
WHM-143*	1.439	1.528	.056	1.539	(+.013/-.000)	.050	(+/-.002)	.118	(+.004/-.004)	9,490	4,580	O/R
WHM-145*	1.456	1.548	.056	1.559	(+.013/-.000)	.050	(+/-.002)	.118	(+.004/-.004)	9,610	4,730	O/R
WHM-150	1.500	1.594	.056	1.605	(+.013/-.000)	.050	(+/-.002)	.118	(+.004/-.004)	9,900	4,980	2.40
WHM-156*	1.562	1.658	.068	1.675	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	12,780	5,300	2.74
WHM-162*	1.625	1.725	.068	1.742	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	13,290	5,740	O/R
WHM-165*	1.653	1.755	.068	1.772	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	13,520	5,960	O/R
WHM-168*	1.688	1.792	.068	1.810	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	13,810	6,210	O/R
WHM-175*	1.750	1.858	.068	1.876	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	14,320	6,680	5.07
WHM-181*	1.812	1.922	.068	1.940	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	14,820	7,050	O/R
WHM-185*	1.850	1.962	.068	1.981	(+.020/-.000)	.062	(+/-.003)	.158	(+.004/-.004)	15,130	7,320	O/R
WHM-187*	1.875	1.989	.068	2.008	(+.020/-.000)	.062	(+/-.003)	.158	(+.004/-.004)	15,340	7,560	O/R
WHM-193*	1.938	2.056	.068	2.075	(+.020/-.000)	.062	(+/-.003)	.158	(+.004/-.004)	15,850	8,080	O/R
WHM-200*	2.000	2.122	.068	2.142	(+.020/-.000)	.062	(+/-.003)	.158	(+.004/-.004)	16,360	8,620	5.26
WHM-206*	2.062	2.186	.086	2.201	(+.025/-.000)	.078	(+/-.003)	.168	(+.005/-.005)	21,220	9,040	7.22
WHM-212*	2.125	2.251	.086	2.267	(+.025/-.000)	.078	(+/-.003)	.168	(+.005/-.005)	21,870	9,460	O/R
WHM-218*	2.188	2.318	.086	2.334	(+.025/-.000)	.078	(+/-.003)	.168	(+.005/-.005)	22,520	10,050	7.22
WHM-225	2.250	2.382	.086	2.399	(+.025/-.000)	.078	(+/-.003)	.168	(+.005/-.005)	23,160	10,500	7.25
WHM-231*	2.312	2.450	.086	2.467	(+.025/-.000)	.078	(+/-.003)	.200	(+.005/-.005)	23,800	11,280	O/R
WHM-237*	2.375	2.517	.086	2.535	(+.025/-.000)	.078	(+/-.003)	.200	(+.005/-.005)	24,440	11,920	O/R
WHM-244*	2.440	2.584	.086	2.602	(+.025/-.000)	.078	(+/-.003)	.200	(+.005/-.005)	25,110	12,420	O/R
WHM-250	2.500	2.648	.086	2.667	(+.025/-.000)	.078	(+/-.003)	.200	(+.005/-.005)	25,730	13,080	8.07
WHM-253*	2.531	2.681	.086	2.700	(+.025/-.000)	.078	(+/-.003)	.200	(+.005/-.005)	26,050	13,420	O/R
WHM-256*	2.562	2.714	.103	2.733	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	29,940	13,760	7.40
WHM-262*	2.625	2.781	.103	2.801	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	30,680	14,470	O/R
WHM-268*	2.688	2.848	.103	2.868	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	31,410	15,200	O/R
WHM-275*	2.750	2.914	.103	2.934	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	32,140	15,940	O/R
WHM-281*	2.813	2.980	.103	3.001	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	32,880	16,700	O/R
WHM-283*	2.834	3.006	.103	3.027	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	33,120	17,230	9.92
WHM-287*	2.875	3.051	.103	3.072	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	33,600	17,880	O/R
WHM-300	3.000	3.182	.103	3.204	(+.030/-.000)	.093	(+/-.003)	.225	(+.005/-.005)	35,060	18,300	10.52
WHM-306*	3.062	3.248	.120	3.271	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	42,710	20,130	O/R
WHM-312*	3.125	3.315	.120	3.338	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	43,590	20,990	O/R
WHM-315*	3.157	3.348	.120	3.371	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	44,040	21,420	O/R
WHM-325*	3.250	3.446	.120	3.470	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	45,330	22,510	O/R
WHM-334*	3.346	3.546	.120	3.571	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	46,670	23,650	O/R
WHM-347*	3.464	3.675	.120	3.701	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	48,320	25,710	O/R
WHM-350*	3.500	3.710	.120	3.736	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	48,820	25,980	10.52
WHM-354*	3.543	3.755	.120	3.781	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	49,420	26,550	O/R
WHM-356*	3.562	3.776	.120	3.802	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	49,690	26,940	O/R
WHM-362*	3.625	3.841	.120	3.868	(+.035/-.000)	.111	(+/-.003)	.281	(+.005/-.005)	50,560	27,670	O/R
WHM-375*	3.750	3.974	.120	4.002	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	52,310	29,690	O/R
WHM-387*	3.875	4.107	.120	4.136	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	54,050	31,770	O/R
WHM-393*	3.938	4.174	.120	4.203	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	54,930	32,850	O/R
WHM-400	4.000	4.240	.120	4.270	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	55,800	33,930	11.94
WHM-412	4.125	4.365	.120	4.395	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	57,540	34,990	O/R

*** : 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-425*	4.250	4.490	.120	4.520	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	59,280	36,050	17.40
WHM-433	4.330	4.570	.120	4.600	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	60,400	36,730	10.42
WHM-450	4.500	4.740	.120	4.770	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	62,770	38,170	19.05
WHM-462*	4.625	4.865	.120	4.899	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	64,510	39,230	O/R
WHM-475*	4.750	4.995	.120	5.030	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	66,260	41,300	O/R
WHM-500*	5.000	5.260	.120	5.297	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	69,740	45,950	O/R
WHM-525*	5.250	5.520	.139	5.559	(+.050/-.000)	.127	(+/-.004)	.350	(+.006/-.006)	83,790	50,100	O/R
WHM-537*	5.375	5.645	.139	5.685	(+.050/-.000)	.127	(+/-.004)	.350	(+.006/-.006)	85,780	51,290	O/R
WHM-550	5.500	5.770	.139	5.810	(+.050/-.000)	.127	(+/-.004)	.350	(+.006/-.006)	87,780	52,480	O/R
WHM-575*	5.750	6.020	.139	6.062	(+.050/-.000)	.127	(+/-.004)	.350	(+.006/-.006)	91,770	54,870	O/R
WHM-600	6.000	6.270	.139	6.314	(+.050/-.000)	.127	(+/-.004)	.350	(+.006/-.006)	95,760	57,260	20.90
WHM-625*	6.250	6.530	.174	6.576	(+.055/-.000)	.156	(+/-.005)	.380	(+.006/-.006)	122,520	61,850	O/R
WHM-650*	6.500	6.790	.174	6.838	(+.055/-.000)	.156	(+/-.005)	.380	(+.006/-.006)	127,420	66,620	O/R
WHM-662*	6.625	6.925	.174	6.974	(+.055/-.000)	.156	(+/-.005)	.380	(+.006/-.006)	129,870	70,240	O/R
WHM-675*	6.750	7.055	.174	7.105	(+.055/-.000)	.156	(+/-.005)	.380	(+.006/-.006)	132,320	73,000	O/R
WHM-700*	7.000	7.315	.174	7.366	(+.055/-.000)	.156	(+/-.005)	.380	(+.006/-.006)	137,230	78,180	O/R
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	(+.070/-.000)	.187	(+/-.005)	.418	(+.007/-.007)	176,240	90,120	O/R
WHM-775*	7.750	8.100	.209	8.157	(+.070/-.000)	.187	(+/-.005)	.418	(+.007/-.007)	182,120	95,870	O/R
WHM-800*	8.000	8.360	.209	8.419	(+.070/-.000)	.187	(+/-.005)	.418	(+.007/-.007)	187,990	101,790	O/R
WHM-825*	8.250	8.620	.209	8.680	(+.070/-.000)	.187	(+/-.005)	.437	(+.007/-.007)	193,870	107,880	O/R
WHM-850*	8.500	8.880	.209	8.942	(+.070/-.000)	.187	(+/-.005)	.437	(+.007/-.007)	199,740	114,160	O/R
WHM-875*	8.750	9.145	.209	9.209	(+.070/-.000)	.187	(+/-.005)	.437	(+.007/-.007)	205,620	122,460	O/R
WHM-900*	9.000	9.405	.209	9.471	(+.070/-.000)	.187	(+/-.005)	.437	(+.007/-.007)	211,490	129,140	O/R
WHM-925*	9.250	9.669	.209	9.737	(+.070/-.000)	.187	(+/-.005)	.437	(+.007/-.007)	217,370	137,310	O/R
WHM-950*	9.500	9.930	.209	10.000	(+.070/-.000)	.187	(+/-.005)	.500	(+.007/-.007)	223,240	144,380	O/R
WHM-975*	9.750	10.189	.209	10.260	(+.070/-.000)	.187	(+/-.005)	.500	(+.007/-.007)	229,120	150,620	O/R
WHM-1000*	10.000	10.450	.209	10.523	(+.070/-.000)	.187	(+/-.005)	.500	(+.007/-.007)	234,990	159,040	O/R
WHM-1025*	10.250	10.711	.209	10.786	(+.070/-.000)	.187	(+/-.005)	.500	(+.007/-.007)	240,870	167,370	O/R
WHM-1050*	10.500	10.970	.209	11.047	(+.070/-.000)	.187	(+/-.005)	.500	(+.007/-.007)	246,740	174,420	O/R
WHM-1075*	10.750	11.234	.209	11.313	(+.120/-.000)	.187	(+/-.005)	.500	(+.007/-.007)	252,620	183,890	O/R
WHM-1100*	11.000	11.495	.209	11.575	(+.120/-.000)	.187	(+/-.005)	.500	(+.007/-.007)	258,490	192,830	O/R
WHM-1125*	11.250	11.756	.209	11.838	(+.120/-.000)	.187	(+/-.005)	.500	(+.015/-.010)	264,370	201,190	O/R
WHM-1150*	11.500	12.018	.209	12.102	(+.120/-.000)	.187	(+/-.005)	.562	(+.015/-.010)	270,240	210,540	O/R
WHM-1175*	11.750	12.279	.209	12.365	(+.120/-.000)	.187	(+/-.005)	.562	(+.015/-.010)	276,120	220,100	O/R
WHM-1200*	12.000	12.540	.209	12.628	(+.120/-.000)	.187	(+/-.005)	.562	(+.015/-.010)	281,990	229,020	O/R
WHM-1225*	12.250	12.801	.209	12.891	(+.120/-.000)	.187	(+/-.005)	.562	(+.015/-.010)	287,860	238,990	O/R
WHM-1250*	12.500	13.063	.209	13.154	(+.120/-.000)	.187	(+/-.005)	.562	(+.015/-.010)	293,740	249,170	O/R
WHM-1275*	12.750	13.324	.209	13.417	(+.120/-.000)	.187	(+/-.005)	.562	(+.015/-.010)	299,610	258,660	O/R
WHM-1300*	13.000	13.585	.209	13.680	(+.140/-.000)	.187	(+/-.005)	.662	(+.015/-.010)	305,490	269,240	O/R
WHM-1325*	13.250	13.846	.209	13.943	(+.140/-.000)	.187	(+/-.005)	.662	(+.015/-.010)	311,360	279,100	O/R
WHM-1350*	13.500	14.108	.209	14.207	(+.140/-.000)	.187	(+/-.005)	.662	(+.015/-.010)	317,240	290,100	O/R
WHM-1375*	13.750	14.369	.209	14.470	(+.140/-.000)	.187	(+/-.005)	.662	(+.015/-.010)	323,110	301,300	O/R
WHM-1400*	14.000	14.630	.209	14.732	(+.140/-.000)	.187	(+/-.005)	.662	(+.015/-.010)	328,990	311,730	O/R
WHM-1425*	14.250	14.891	.209	14.995	(+.140/-.000)	.187	(+/-.005)	.662	(+.015/-.010)	334,860	323,340	O/R
WHM-1450*	14.500	15.153	.209	15.259	(+.140/-.000)	.187	(+/-.005)	.750	(+.015/-.010)	340,740	335,160	O/R
WHM-1475*	14.750	15.414	.209	15.522	(+.140/-.000)	.187	(+/-.005)	.750	(+.015/-.010)	346,610	346,150	O/R
WHM-1500*	15.000	15.675	.209	15.785	(+.140/-.000)	.187	(+/-.005)	.750	(+.015/-.010)	352,490	358,380	O/R

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WHT 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	$
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	(+.013/-.000)	.035	(+/-.002)	.045	(+.004/-.004)	2,590	430	O/R
WHT-56*	0.562	0.592	.039	0.597	(+.013/-.000)	.035	(+/-.002)	.045	(+.004/-.004)	2,840	600	O/R
WHT-62*	0.625	0.659	.039	0.665	(+.013/-.000)	.035	(+/-.002)	.045	(+.004/-.004)	3,160	750	O/R
WHT-68*	0.688	0.724	.039	0.730	(+.013/-.000)	.035	(+/-.002)	.055	(+.004/-.004)	3,480	880	0.76
WHT-75*	0.750	0.790	.039	0.796	(+.013/-.000)	.035	(+/-.002)	.055	(+.004/-.004)	3,790	1,060	O/R
WHT-77*	0.777	0.819	.046	0.825	(+.013/-.000)	.042	(+/-.002)	.065	(+.004/-.004)	4,720	1,150	O/R
WHT-81*	0.812	0.857	.046	0.864	(+.013/-.000)	.042	(+/-.002)	.065	(+.004/-.004)	4,930	1,320	O/R
WHT-86*	0.866	0.912	.046	0.919	(+.013/-.000)	.042	(+/-.002)	.065	(+.004/-.004)	5,260	1,410	O/R
WHT-87*	0.875	0.922	.046	0.929	(+.013/-.000)	.042	(+/-.002)	.065	(+.004/-.004)	5,310	1,480	O/R
WHT-90*	0.901	0.950	.046	0.957	(+.013/-.000)	.042	(+/-.002)	.065	(+.004/-.004)	5,470	1,590	O/R
WHT-93*	0.938	0.989	.046	0.997	(+.013/-.000)	.042	(+/-.002)	.075	(+.004/-.004)	5,690	1,720	O/R
WHT-100*	1.000	1.055	.046	1.063	(+.013/-.000)	.042	(+/-.002)	.075	(+.004/-.004)	6,070	1,980	O/R
WHT-102*	1.023	1.079	.046	1.087	(+.013/-.000)	.042	(+/-.002)	.075	(+.004/-.004)	6,210	2,030	O/R
WHT-106*	1.062	1.120	.056	1.129	(+.015/-.000)	.050	(+/-.002)	.078	(+.004/-.004)	7,010	2,180	O/R
WHT-112*	1.125	1.185	.056	1.195	(+.015/-.000)	.050	(+/-.002)	.078	(+.004/-.004)	7,420	2,390	O/R
WHT-118*	1.188	1.250	.056	1.260	(+.015/-.000)	.050	(+/-.002)	.088	(+.004/-.004)	7,840	2,600	O/R
WHT-125*	1.250	1.320	.056	1.330	(+.015/-.000)	.050	(+/-.002)	.093	(+.004/-.004)	8,250	3,090	O/R
WHT-131*	1.312	1.385	.056	1.395	(+.015/-.000)	.050	(+/-.002)	.093	(+.004/-.004)	8,660	3,430	1.25
WHT-137*	1.375	1.450	.056	1.461	(+.015/-.000)	.050	(+/-.002)	.098	(+.004/-.004)	9,070	3,690	O/R
WHT-143*	1.438	1.515	.056	1.526	(+.015/-.000)	.050	(+/-.002)	.103	(+.004/-.004)	9,490	3,960	O/R
WHT-145*	1.456	1.535	.056	1.546	(+.015/-.000)	.050	(+/-.002)	.108	(+.004/-.004)	9,610	4,120	O/R
WHT-150	1.500	1.580	.056	1.591	(+.015/-.000)	.050	(+/-.002)	.108	(+.004/-.004)	9,900	4,240	1.62
WHT-156*	1.562	1.647	.068	1.659	(+.020/-.000)	.062	(+/-.003)	.113	(+.004/-.004)	12,780	4,750	O/R
WHT-162*	1.625	1.715	.068	1.727	(+.020/-.000)	.062	(+/-.003)	.113	(+.004/-.004)	13,290	5,170	1.88
WHT-165*	1.653	1.745	.068	1.757	(+.020/-.000)	.062	(+/-.003)	.118	(+.004/-.004)	13,520	5,380	O/R
WHT-168*	1.688	1.780	.068	1.793	(+.020/-.000)	.062	(+/-.003)	.118	(+.004/-.004)	13,810	5,490	O/R
WHT-175*	1.750	1.845	.068	1.858	(+.020/-.000)	.062	(+/-.003)	.118	(+.004/-.004)	14,320	5,940	2.42
WHT-181*	1.812	1.910	.068	1.923	(+.020/-.000)	.062	(+/-.003)	.123	(+.004/-.004)	14,820	6,280	O/R
WHT-185*	1.850	1.949	.068	1.963	(+.020/-.000)	.062	(+/-.003)	.123	(+.004/-.004)	15,130	6,540	O/R
WHT-187*	1.875	1.975	.068	1.989	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	15,340	6,630	2.86
WHT-193*	1.938	2.040	.068	2.054	(+.020/-.000)	.062	(+/-.003)	.128	(+.004/-.004)	15,850	6,990	O/R
WHT-200	2.000	2.110	.068	2.125	(+.020/-.000)	.062	(+/-.003)	.138	(+.004/-.004)	16,360	7,780	2.86
WHT-206*	2.062	2.175	.086	2.190	(+.025/-.000)	.078	(+/-.003)	.141	(+.004/-.004)	21,220	8,310	3.72
WHT-212*	2.125	2.240	.086	2.255	(+.025/-.000)	.078	(+/-.003)	.141	(+.004/-.004)	21,870	8,710	O/R
WHT-218*	2.188	2.305	.086	2.321	(+.025/-.000)	.078	(+/-.003)	.141	(+.004/-.004)	22,520	9,130	O/R
WHT-225*	2.250	2.370	.086	2.386	(+.025/-.000)	.078	(+/-.003)	.141	(+.004/-.004)	23,160	9,540	3.72
WHT-231*	2.312	2.440	.086	2.457	(+.025/-.000)	.078	(+/-.003)	.188	(+.005/-.005)	23,800	10,460	O/R
WHT-237*	2.375	2.505	.086	2.522	(+.025/-.000)	.078	(+/-.003)	.188	(+.005/-.005)	24,440	10,910	O/R
WHT-244*	2.440	2.570	.086	2.588	(+.025/-.000)	.078	(+/-.003)	.188	(+.005/-.005)	25,110	11,210	7.88
WHT-250	2.500	2.635	.086	2.653	(+.025/-.000)	.078	(+/-.003)	.188	(+.005/-.005)	25,730	12,020	4.96
WHT-253*	2.531	2.668	.086	2.687	(+.025/-.000)	.078	(+/-.003)	.188	(+.005/-.005)	26,050	12,350	4.96
WHT-256*	2.562	2.700	.103	2.720	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	29,940	12,500	4.96
WHT-262	2.625	2.765	.103	2.785	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	30,680	12,990	5.39
WHT-268*	2.688	2.834	.103	2.855	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	31,410	13,870	O/R
WHT-275*	2.750	2.900	.103	2.921	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	32,140	14,580	5.72
WHT-281*	2.813	2.965	.103	2.987	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	32,880	15,110	O/R
WHT-283*	2.834	2.987	.103	3.009	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	33,120	15,430	5.85

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WHT 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	$
WHT-287*	2.875	3.030	.103	3.053	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	33,600	15,850	O/R
WHT-300	3.000	3.165	.103	3.188	(+.025/-.000)	.093	(+/-.003)	.188	(+.005/-.005)	35,060	17,600	5.85
WHT-306*	3.062	3.230	.120	3.253	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	42,710	18,180	O/R
WHT-312*	3.125	3.295	.120	3.318	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	43,590	18,780	8.64
WHT-315*	3.156	3.328	.120	3.354	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	44,040	19,190	O/R
WHT-325*	3.250	3.426	.120	3.450	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	45,330	20,220	7.15
WHT-334*	3.346	3.525	.120	3.550	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	46,670	21,290	O/R
WHT-346*	3.464	3.650	.120	3.675	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	48,320	22,770	O/R
WHT-350*	3.500	3.690	.120	3.716	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	48,820	23,500	11.16
WHT-354*	3.543	3.735	.120	3.761	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	49,420	24,040	O/R
WHT-356*	3.562	3.756	.120	3.783	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	49,690	24,420	O/R
WHT-362*	3.625	3.822	.120	3.849	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	50,560	25,370	O/R
WHT-375*	3.750	3.955	.120	3.982	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	52,310	27,300	O/R
WHT-387*	3.875	4.087	.120	4.115	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	54,050	29,030	O/R
WHT-393	3.938	4.150	.120	4.178	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	54,930	29,510	O/R
WHT-400*	4.000	4.220	.120	4.248	(+.030/-.000)	.111	(+/-.003)	.250	(+.005/-.005)	55,800	31,100	10.53
WHT-412*	4.125	4.345	.120	4.373	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	57,540	32,070	O/R
WHT-425*	4.250	4.470	.120	4.500	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	59,280	33,050	O/R
WHT-433*	4.330	4.556	.120	4.586	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	60,400	34,590	O/R
WHT-450*	4.500	4.735	.120	4.768	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	62,770	37,530	14.61
WHT-462*	4.625	4.865	.120	4.897	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	64,510	39,230	O/R
WHT-475*	4.750	4.995	.120	5.028	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	66,260	41,300	16.48
WHT-500*	5.000	5.260	.120	5.295	(+.035/-.000)	.111	(+/-.003)	.312	(+.006/-.006)	69,740	45,950	17.12
WHT-525*	5.250	5.520	.139	5.559	(+.045/-.000)	.127	(+/-.004)	.375	(+.006/-.006)	83,790	50,100	O/R
WHT-537*	5.375	5.645	.139	5.685	(+.045/-.000)	.127	(+/-.004)	.375	(+.006/-.006)	85,780	51,290	O/R
WHT-550*	5.500	5.770	.139	5.810	(+.045/-.000)	.127	(+/-.004)	.375	(+.006/-.006)	87,780	52,480	18.48
WHT-575*	5.750	6.020	.139	6.062	(+.045/-.000)	.127	(+/-.004)	.375	(+.006/-.006)	91,770	54,870	O/R
WHT-600*	6.000	6.270	.139	6.314	(+.045/-.000)	.127	(+/-.004)	.375	(+.006/-.006)	95,760	57,260	18.60
WHT-625*	6.250	6.530	.174	6.576	(+.055/-.000)	.165	(+/-.005)	.312	(+.006/-.006)	129,590	61,850	O/R
WHT-650*	6.500	6.790	.174	6.837	(+.055/-.000)	.165	(+/-.005)	.312	(+.006/-.006)	134,780	66,620	58.63
WHT-662*	6.625	6.925	.174	6.973	(+.055/-.000)	.165	(+/-.005)	.312	(+.006/-.006)	137,370	70,240	74.86
WHT-675*	6.750	7.055	.174	7.104	(+.055/-.000)	.165	(+/-.005)	.312	(+.006/-.006)	139,960	73,000	O/R
WHT-700*	7.000	7.315	.174	7.366	(+.055/-.000)	.165	(+/-.005)	.312	(+.006/-.006)	145,140	78,180	42.28
WHT-725*	7.250	7.575	.209	7.628	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	172,190	83,530	O/R
WHT-750*	7.500	7.840	.209	7.895	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	178,130	90,120	O/R
WHT-775*	7.750	8.100	.209	8.156	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	184,070	95,870	O/R
WHT-800*	8.000	8.360	.209	8.418	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	190,000	101,790	O/R
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	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	201,880	114,160	O/R
WHT-875*	8.750	9.145	.209	9.209	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	207,820	122,460	O/R
WHT-900*	9.000	9.405	.209	9.471	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	213,750	129,140	O/R
WHT-925*	9.250	9.669	.209	9.736	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	219,690	137,310	O/R
WHT-950*	9.500	9.930	.209	9.999	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	225,630	144,380	O/R
WHT-975*	9.750	10.189	.209	10.260	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	231,570	151,620	63.98
WHT-1000*	10.000	10.450	.209	10.552	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	237,500	159,040	O/R
WHT-1050*	10.500	10.970	.209	11.072	(+.070/-.000)	.189	(+/-.005)	.375	(+.006/-.006)	249,380	174,420	111.49

*** : 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-25*	0.250	0.238	.015	0.236	(+.000/-.010)	.012	(+/-.0015)	.020	(+.004/-.004)	481	106	O/R
VS-31*	0.312	0.297	.018	0.294	(+.000/-.010)	.015	(+/-.0015)	.025	(+.004/-.004)	750	165	O/R
VS-37*	0.375	0.351	.018	0.348	(+.000/-.010)	.015	(+/-.0015)	.025	(+.004/-.004)	901	318	O/R
VS-43*	0.437	0.413	.018	0.410	(+.000/-.012)	.015	(+/-.0015)	.035	(+.004/-.004)	1,050	371	O/R
VS-50*	0.500	0.472	.022	0.467	(+.000/-.013)	.018	(+/-.0015)	.045	(+.004/-.004)	1,300	500	O/R
VS-56*	0.562	0.534	.022	0.529	(+.000/-.013)	.018	(+/-.0015)	.045	(+.004/-.004)	1,460	560	O/R
VS-62*	0.625	0.597	.022	0.591	(+.000/-.013)	.018	(+/-.0015)	.045	(+.004/-.004)	1,630	620	O/R
VS-68*	0.687	0.659	.022	0.652	(+.000/-.013)	.018	(+/-.0015)	.045	(+.004/-.004)	1,790	680	O/R
VS-75*	0.750	0.722	.022	0.715	(+.000/-.013)	.018	(+/-.0015)	.045	(+.004/-.004)	1,950	740	O/R
VS-81*	0.812	0.770	.026	0.762	(+.000/-.013)	.021	(+/-.0015)	.065	(+.004/-.004)	2,460	1,210	O/R
VS-87*	0.875	0.833	.026	0.825	(+.000/-.013)	.021	(+/-.0015)	.065	(+.004/-.004)	2,660	1,300	O/R
VS-93*	0.937	0.895	.026	0.886	(+.000/-.013)	.021	(+/-.0015)	.065	(+.004/-.004)	2,840	1,390	O/R
VS-100*	1.000	0.958	.026	0.949	(+.000/-.013)	.021	(+/-.0015)	.065	(+.004/-.004)	3,040	1,480	O/R
VS-106*	1.062	1.018	.031	1.008	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	3,500	1,650	O/R
VS-112*	1.125	1.081	.031	1.071	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	3,710	1,750	O/R
VS-118*	1.187	1.143	.031	1.132	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	3,920	1,850	O/R
VS-125*	1.250	1.206	.031	1.194	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	4,120	1,940	O/R
VS-131*	1.312	1.268	.031	1.255	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	4,330	2,040	O/R
VS-137*	1.375	1.331	.031	1.318	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	4,540	2,140	O/R
VS-143*	1.437	1.393	.031	1.379	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	4,740	2,240	O/R
VS-150*	1.500	1.456	.031	1.442	(+.000/-.015)	.025	(+/-.0015)	.088	(+.004/-.004)	4,950	2,330	O/R
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	(+.000/-.020)	.031	(+/-.002)	.118	(+.004/-.004)	6,650	3,330	0.64
VS-168*	1.687	1.630	.039	1.612	(+.000/-.020)	.031	(+/-.002)	.118	(+.004/-.004)	6,900	3,460	O/R
VS-175*	1.750	1.693	.039	1.674	(+.000/-.020)	.031	(+/-.002)	.118	(+.004/-.004)	7,160	3,590	O/R
VS-181*	1.812	1.755	.039	1.736	(+.000/-.020)	.031	(+/-.002)	.118	(+.004/-.004)	7,410	3,710	O/R
VS-187*	1.875	1.818	.039	1.798	(+.000/-.020)	.031	(+/-.002)	.118	(+.004/-.004)	7,670	3,840	0.79
VS-193*	1.937	1.880	.039	1.859	(+.000/-.020)	.031	(+/-.002)	.118	(+.004/-.004)	7,920	3,970	O/R
VS-200*	2.000	1.943	.039	1.922	(+.000/-.020)	.031	(+/-.002)	.118	(+.004/-.004)	8,180	4,100	O/R
VS-206*	2.062	1.986	.039	1.963	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	8,430	5,540	O/R
VS-212*	2.125	2.049	.039	2.026	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	8,690	5,710	O/R
VS-218*	2.187	2.111	.039	2.087	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	8,950	5,870	O/R
VS-225*	2.250	2.174	.039	2.149	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	9,200	6,040	O/R
VS-231*	2.312	2.236	.039	2.211	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	9,460	6,210	O/R
VS-237*	2.375	2.299	.039	2.273	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	9,720	6,380	O/R
VS-243*	2.437	2.361	.039	2.335	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	9,970	6,550	O/R
VS-250*	2.500	2.424	.039	2.397	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	10,230	6,720	O/R
VS-256*	2.562	2.486	.039	2.458	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	10,480	6,880	O/R
VS-262*	2.625	2.549	.039	2.521	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	10,740	7,050	O/R
VS-268*	2.687	2.611	.039	2.582	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	10,990	7,220	O/R
VS-275*	2.750	2.674	.039	2.644	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	11,250	7,390	O/R
VS-281*	2.812	2.736	.039	2.706	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	11,500	7,550	O/R
VS-287*	2.875	2.799	.039	2.768	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	11,760	7,720	O/R
VS-293*	2.937	2.861	.039	2.830	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	12,010	7,890	O/R
VS-300*	3.000	2.924	.039	2.892	(+.000/-.025)	.031	(+/-.002)	.158	(+.004/-.004)	12,270	8,060	O/R
VS-306*	3.062	2.970	.044	2.938	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	15,760	9,960	O/R
VS-312*	3.125	3.033	.044	3.001	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	16,080	10,160	O/R
VS-318*	3.187	3.095	.044	3.062	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	16,400	10,360	O/R

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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-325*	3.250	3.158	.044	3.125	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	16,720	10,570	O/R
VS-331*	3.312	3.220	.044	3.186	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	17,040	10,770	O/R
VS-337*	3.375	3.283	.044	3.248	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	17,370	10,970	O/R
VS-343*	3.437	3.345	.044	3.310	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	17,690	11,180	O/R
VS-350*	3.500	3.408	.044	3.372	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	18,010	11,380	O/R
VS-356*	3.562	3.470	.044	3.433	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	18,330	11,580	O/R
VS-362*	3.625	3.533	.044	3.496	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	18,650	11,790	O/R
VS-368*	3.687	3.595	.044	3.557	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	18,970	11,990	O/R
VS-375*	3.750	3.658	.044	3.620	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	19,300	12,190	O/R
VS-381*	3.812	3.720	.044	3.681	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	19,620	12,400	O/R
VS-387*	3.875	3.783	.044	3.743	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	19,940	12,600	O/R
VS-393*	3.937	3.845	.044	3.805	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	20,260	12,800	O/R
VS-400*	4.000	3.908	.044	3.867	(+.000/-.030)	.039	(+/-.002)	.188	(+.005/-.005)	20,580	13,010	2.29
VS-412*	4.125	4.015	.052	3.973	(+.000/-.035)	.046	(+/-.002)	.225	(+.005/-.005)	23,850	16,040	2.29
VS-425*	4.250	4.140	.052	4.097	(+.000/-.035)	.046	(+/-.002)	.225	(+.005/-.005)	24,570	16,520	O/R
VS-437*	4.375	4.265	.052	4.221	(+.000/-.035)	.046	(+/-.002)	.225	(+.005/-.005)	25,290	17,010	O/R
VS-450*	4.500	4.390	.052	4.345	(+.000/-.035)	.046	(+/-.002)	.225	(+.005/-.005)	26,010	17,500	O/R
VS-462*	4.625	4.515	.052	4.468	(+.000/-.035)	.046	(+/-.002)	.225	(+.005/-.005)	26,740	17,980	O/R
VS-475*	4.750	4.640	.052	4.592	(+.000/-.035)	.046	(+/-.002)	.225	(+.005/-.005)	27,460	18,470	O/R
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	(+.000/-.035)	.046	(+/-.002)	.225	(+.005/-.005)	28,900	19,440	O/R
VS-525*	5.250	5.119	.067	5.067	(+.000/-.045)	.061	(+/-.002)	.225	(+.005/-.005)	40,240	24,490	12.71
VS-550*	5.500	5.363	.067	5.309	(+.000/-.045)	.061	(+/-.002)	.225	(+.005/-.005)	42,160	26,830	O/R
VS-575*	5.750	5.606	.067	5.550	(+.000/-.045)	.061	(+/-.002)	.225	(+.005/-.005)	44,080	29,260	O/R
VS-600*	6.000	5.850	.067	5.792	(+.000/-.045)	.061	(+/-.002)	.225	(+.005/-.005)	45,990	31,810	O/R
VS-625*	6.250	6.094	.067	6.033	(+.000/-.045)	.061	(+/-.002)	.265	(+.005/-.005)	47,910	34,460	9.60
VS-650*	6.500	6.338	.067	6.275	(+.000/-.045)	.061	(+/-.002)	.265	(+.005/-.005)	49,830	37,220	O/R
VS-675*	6.750	6.581	.067	6.515	(+.000/-.045)	.061	(+/-.002)	.265	(+.005/-.005)	51,740	40,560	O/R
VS-700*	7.000	6.825	.067	6.757	(+.000/-.045)	.061	(+/-.002)	.265	(+.005/-.005)	53,660	43,540	O/R
VS-725*	7.250	7.069	.067	6.998	(+.000/-.045)	.061	(+/-.002)	.300	(+.004/-.008)	55,580	46,640	O/R
VS-750*	7.500	7.313	.067	7.240	(+.000/-.060)	.061	(+/-.002)	.300	(+.004/-.008)	57,490	49,830	O/R
VS-775*	7.750	7.556	.067	7.480	(+.000/-.060)	.061	(+/-.002)	.300	(+.004/-.008)	59,410	53,140	O/R
VS-800*	8.000	7.800	.067	7.722	(+.000/-.060)	.061	(+/-.002)	.300	(+.004/-.008)	61,320	56,550	O/R
VS-825*	8.250	8.044	.082	7.964	(+.000/-.060)	.076	(+/-.002)	.345	(+.004/-.008)	78,790	60,070	O/R
VS-850*	8.500	8.288	.082	8.205	(+.000/-.060)	.076	(+/-.002)	.345	(+.004/-.008)	81,180	63,690	O/R
VS-875*	8.750	8.531	.082	8.446	(+.000/-.060)	.076	(+/-.002)	.345	(+.004/-.008)	83,570	68,040	O/R
VS-900*	9.000	8.775	.082	8.687	(+.000/-.070)	.076	(+/-.002)	.345	(+.004/-.008)	85,950	71,890	O/R
VS-925*	9.250	9.019	.082	8.929	(+.000/-.070)	.076	(+/-.002)	.345	(+.004/-.008)	88,340	75,850	O/R
VS-950*	9.500	9.263	.082	9.170	(+.000/-.070)	.076	(+/-.002)	.345	(+.004/-.008)	90,730	79,910	O/R
VS-975*	9.750	9.506	.082	9.411	(+.000/-.070)	.076	(+/-.002)	.345	(+.004/-.008)	93,120	84,080	O/R
VS-1000*	10.000	9.750	.082	9.653	(+.000/-.070)	.076	(+/-.002)	.345	(+.004/-.008)	95,500	88,360	O/R

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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-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	(+.000/-.013)	.025	(+/-.002)	.045	(+.004/-.004)	2,130	490	O/R
WS-55*	0.551	0.525	.030	0.518	(+.000/-.013)	.025	(+/-.002)	.045	(+.004/-.004)	2,210	510	O/R
WS-56*	0.562	0.536	.030	0.529	(+.000/-.013)	.025	(+/-.002)	.045	(+.004/-.004)	2,250	520	O/R
WS-59*	0.594	0.569	.030	0.561	(+.000/-.013)	.025	(+/-.002)	.045	(+.004/-.004)	2,380	550	O/R
WS-62*	0.625	0.594	.030	0.585	(+.000/-.013)	.025	(+/-.002)	.055	(+.004/-.004)	2,500	710	O/R
WS-65*	0.656	0.625	.030	0.617	(+.000/-.013)	.025	(+/-.002)	.055	(+.004/-.004)	2,630	740	O/R
WS-66*	0.669	0.638	.030	0.629	(+.000/-.013)	.025	(+/-.002)	.055	(+.004/-.004)	2,680	760	O/R
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	(+.000/-.013)	.025	(+/-.002)	.055	(+.004/-.004)	2,880	810	O/R
WS-75*	0.750	0.719	.036	0.710	(+.000/-.013)	.031	(+/-.002)	.065	(+.004/-.004)	3,360	850	O/R
WS-78*	0.781	0.750	.036	0.741	(+.000/-.013)	.031	(+/-.002)	.065	(+.004/-.004)	3,500	880	O/R
WS-81*	0.812	0.781	.036	0.771	(+.000/-.013)	.031	(+/-.002)	.065	(+.004/-.004)	3,640	920	O/R
WS-84*	0.843	0.812	.036	0.803	(+.000/-.013)	.031	(+/-.002)	.065	(+.004/-.004)	3,780	950	O/R
WS-87*	0.875	0.838	.036	0.828	(+.000/-.013)	.031	(+/-.002)	.065	(+.004/-.004)	3,920	1,180	O/R
WS-90*	0.906	0.869	.036	0.860	(+.000/-.013)	.031	(+/-.002)	.065	(+.004/-.004)	4,060	1,220	O/R
WS-93*	0.937	0.900	.036	0.889	(+.000/-.013)	.031	(+/-.002)	.065	(+.004/-.004)	4,200	1,260	O/R
WS-96*	0.968	0.925	.042	0.916	(+.000/-.013)	.037	(+/-.002)	.075	(+.004/-.004)	5,180	1,440	O/R
WS-98*	0.984	0.941	.042	0.930	(+.000/-.013)	.037	(+/-.002)	.075	(+.004/-.004)	5,260	1,460	O/R
WS-100	1.000	0.957	.042	0.946	(+.000/-.013)	.037	(+/-.002)	.075	(+.004/-.004)	5,350	1,480	2.12
WS-102*	1.023	0.980	.042	0.968	(+.000/-.013)	.037	(+/-.002)	.075	(+.004/-.004)	5,470	1,520	O/R
WS-103*	1.031	0.988	.042	0.978	(+.000/-.013)	.037	(+/-.002)	.075	(+.004/-.004)	5,510	1,530	O/R
WS-106*	1.062	1.020	.042	1.007	(+.000/-.015)	.037	(+/-.002)	.075	(+.004/-.004)	5,680	1,580	O/R
WS-109*	1.093	1.051	.042	1.040	(+.000/-.015)	.037	(+/-.002)	.075	(+.004/-.004)	5,840	1,620	O/R
WS-112*	1.125	1.083	.042	1.070	(+.000/-.015)	.037	(+/-.002)	.075	(+.004/-.004)	6,020	1,670	O/R
WS-115*	1.156	1.114	.042	1.102	(+.000/-.015)	.037	(+/-.002)	.075	(+.004/-.004)	6,180	1,720	O/R
WS-118*	1.188	1.140	.048	1.127	(+.000/-.015)	.043	(+/-.002)	.085	(+.004/-.004)	7,380	2,020	O/R
WS-121*	1.218	1.170	.048	1.159	(+.000/-.015)	.043	(+/-.002)	.085	(+.004/-.004)	7,570	2,070	O/R
WS-125*	1.250	1.202	.048	1.188	(+.000/-.015)	.043	(+/-.002)	.085	(+.004/-.004)	7,770	2,120	O/R
WS-128*	1.281	1.233	.048	1.221	(+.000/-.015)	.043	(+/-.002)	.085	(+.004/-.004)	7,960	2,170	O/R
WS-131*	1.312	1.264	.048	1.251	(+.000/-.015)	.043	(+/-.002)	.095	(+.004/-.004)	8,150	2,230	1.15
WS-134*	1.343	1.295	.048	1.282	(+.000/-.015)	.043	(+/-.002)	.095	(+.004/-.004)	8,350	2,280	O/R
WS-137*	1.375	1.323	.048	1.308	(+.000/-.015)	.043	(+/-.002)	.095	(+.004/-.004)	8,540	2,530	1.15
WS-140*	1.406	1.354	.048	1.340	(+.000/-.015)	.043	(+/-.002)	.095	(+.004/-.004)	8,740	2,580	O/R
WS-143*	1.437	1.385	.048	1.370	(+.000/-.015)	.043	(+/-.002)	.095	(+.004/-.004)	8,930	2,640	1.41
WS-146*	1.468	1.416	.048	1.402	(+.000/-.015)	.043	(+/-.002)	.095	(+.004/-.004)	9,120	2,700	O/R
WS-150*	1.500	1.448	.048	1.433	(+.000/-.015)	.043	(+/-.002)	.095	(+.004/-.004)	9,320	2,760	O/R
WS-156*	1.562	1.507	.056	1.490	(+.000/-.020)	.049	(+/-.003)	.108	(+.004/-.004)	10,100	3,090	O/R
WS-157*	1.575	1.520	.056	1.503	(+.000/-.020)	.049	(+/-.003)	.108	(+.004/-.004)	10,190	3,120	O/R
WS-162*	1.625	1.566	.056	1.549	(+.000/-.020)	.049	(+/-.003)	.108	(+.004/-.004)	10,510	3,450	O/R
WS-168*	1.687	1.628	.056	1.610	(+.000/-.020)	.049	(+/-.003)	.118	(+.004/-.004)	10,910	3,580	O/R
WS-175	1.750	1.691	.056	1.673	(+.000/-.020)	.049	(+/-.003)	.118	(+.004/-.004)	11,310	3,710	2.10
WS-177*	1.771	1.708	.056	1.690	(+.000/-.020)	.049	(+/-.003)	.118	(+.004/-.004)	11,450	4,010	O/R
WS-181*	1.813	1.749	.056	1.730	(+.000/-.020)	.049	(+/-.003)	.118	(+.004/-.004)	11,720	4,100	O/R
WS-187	1.875	1.808	.056	1.789	(+.000/-.020)	.049	(+/-.003)	.128	(+.004/-.004)	12,120	4,510	O/R
WS-193*	1.938	1.871	.056	1.851	(+.000/-.020)	.049	(+/-.003)	.128	(+.004/-.004)	12,530	4,660	O/R
WS-196*	1.969	1.902	.056	1.882	(+.000/-.020)	.049	(+/-.003)	.128	(+.004/-.004)	12,730	4,730	2.27
WS-200	2.000	1.929	.056	1.909	(+.000/-.020)	.049	(+/-.003)	.128	(+.004/-.004)	12,930	4,950	O/R

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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-206*	2.062	1.992	.056	1.971	(+.000/-.020)	.049	(+/-.003)	.128	(+.004/-.004)	13,330	5,100	4.64
WS-212*	2.125	2.051	.056	2.029	(+.000/-.020)	.049	(+/-.003)	.128	(+.004/-.004)	13,740	5,560	O/R
WS-215*	2.156	2.082	.056	2.060	(+.000/-.025)	.049	(+/-.003)	.138	(+.004/-.004)	13,940	5,640	O/R
WS-216*	2.165	2.091	.056	2.070	(+.000/-.025)	.049	(+/-.003)	.138	(+.004/-.004)	14,000	5,660	O/R
WS-218*	2.188	2.113	.056	2.092	(+.000/-.025)	.049	(+/-.003)	.138	(+.004/-.004)	14,150	5,720	O/R
WS-225*	2.250	2.176	.056	2.153	(+.000/-.025)	.049	(+/-.003)	.138	(+.004/-.004)	14,550	5,890	2.89
WS-231*	2.312	2.234	.056	2.211	(+.000/-.025)	.049	(+/-.003)	.138	(+.004/-.004)	14,950	6,370	5.45
WS-236*	2.362	2.284	.056	2.261	(+.000/-.025)	.049	(+/-.003)	.138	(+.004/-.004)	15,270	6,510	6.36
WS-237*	2.375	2.297	.056	2.273	(+.000/-.025)	.049	(+/-.003)	.138	(+.004/-.004)	15,360	6,550	O/R
WS-243*	2.437	2.355	.056	2.331	(+.000/-.025)	.049	(+/-.003)	.148	(+.004/-.004)	15,760	7,060	O/R
WS-250*	2.500	2.418	.056	2.394	(+.000/-.025)	.049	(+/-.003)	.148	(+.004/-.004)	16,160	7,250	4.38
WS-255*	2.559	2.473	.056	2.449	(+.000/-.025)	.049	(+/-.003)	.148	(+.004/-.004)	16,550	7,780	O/R
WS-256*	2.562	2.476	.056	2.452	(+.000/-.025)	.049	(+/-.003)	.148	(+.004/-.004)	16,560	7,790	O/R
WS-262*	2.625	2.539	.056	2.514	(+.000/-.025)	.049	(+/-.003)	.148	(+.004/-.004)	16,970	7,980	O/R
WS-268*	2.688	2.597	.056	2.572	(+.000/-.025)	.049	(+/-.003)	.158	(+.004/-.004)	17,380	8,550	4.69
WS-275	2.750	2.660	.056	2.635	(+.000/-.030)	.049	(+/-.003)	.158	(+.004/-.004)	17,780	8,750	4.69
WS-281*	2.813	2.722	.056	2.696	(+.000/-.030)	.049	(+/-.003)	.168	(+.005/-.005)	18,190	8,950	O/R
WS-287*	2.875	2.781	.056	2.755	(+.000/-.030)	.049	(+/-.003)	.168	(+.005/-.005)	18,590	9,550	O/R
WS-293*	2.937	2.843	.056	2.817	(+.000/-.030)	.049	(+/-.003)	.168	(+.005/-.005)	18,990	9,760	6.12
WS-295*	2.952	2.858	.056	2.831	(+.000/-.030)	.049	(+/-.003)	.168	(+.005/-.005)	19,090	9,810	O/R
WS-300	3.000	2.904	.068	2.877	(+.000/-.030)	.061	(+/-.003)	.168	(+.005/-.005)	24,150	10,180	7.73
WS-306*	3.062	2.966	.068	2.938	(+.000/-.030)	.061	(+/-.003)	.168	(+.005/-.005)	24,650	10,390	O/R
WS-312*	3.125	3.027	.068	3.000	(+.000/-.030)	.061	(+/-.003)	.178	(+.005/-.005)	25,150	10,820	6.16
WS-314*	3.149	3.051	.068	3.023	(+.000/-.030)	.061	(+/-.003)	.178	(+.005/-.005)	25,350	10,910	O/R
WS-318*	3.187	3.089	.068	3.061	(+.000/-.030)	.061	(+/-.003)	.178	(+.005/-.005)	25,650	11,040	O/R
WS-325*	3.250	3.150	.068	3.121	(+.000/-.030)	.061	(+/-.003)	.178	(+.005/-.005)	26,160	11,490	7.47
WS-331*	3.312	3.208	.068	3.180	(+.000/-.030)	.061	(+/-.003)	.188	(+.005/-.005)	26,660	12,170	O/R
WS-334*	3.343	3.239	.068	3.210	(+.000/-.030)	.061	(+/-.003)	.188	(+.005/-.005)	26,910	12,290	8.61
WS-337*	3.375	3.271	.068	3.242	(+.000/-.030)	.061	(+/-.003)	.188	(+.005/-.005)	27,170	12,410	O/R
WS-343*	3.437	3.331	.068	3.301	(+.000/-.030)	.061	(+/-.003)	.188	(+.005/-.005)	27,660	12,880	O/R
WS-350*	3.500	3.394	.068	3.363	(+.000/-.040)	.061	(+/-.003)	.188	(+.005/-.005)	28,170	13,110	O/R
WS-354*	3.543	3.433	.068	3.402	(+.000/-.040)	.061	(+/-.003)	.198	(+.005/-.005)	28,520	13,770	O/R
WS-356*	3.562	3.452	.068	3.422	(+.000/-.040)	.061	(+/-.003)	.198	(+.005/-.005)	28,670	13,850	O/R
WS-362*	3.625	3.515	.068	3.483	(+.000/-.040)	.061	(+/-.003)	.198	(+.005/-.005)	29,180	14,090	4.07
WS-368*	3.687	3.575	.068	3.543	(+.000/-.040)	.061	(+/-.003)	.198	(+.005/-.005)	29,680	14,600	O/R
WS-374*	3.740	3.628	.068	3.597	(+.000/-.040)	.061	(+/-.003)	.198	(+.005/-.005)	30,100	14,800	O/R
WS-375*	3.750	3.638	.068	3.606	(+.000/-.040)	.061	(+/-.003)	.198	(+.005/-.005)	30,180	14,840	O/R
WS-381*	3.812	3.700	.068	3.668	(+.000/-.040)	.061	(+/-.003)	.198	(+.005/-.005)	30,680	15,090	O/R
WS-387*	3.875	3.757	.068	3.724	(+.000/-.040)	.061	(+/-.003)	.208	(+.005/-.005)	31,190	16,160	O/R
WS-393	3.938	3.820	.068	3.784	(+.000/-.040)	.061	(+/-.003)	.208	(+.005/-.005)	31,700	16,420	O/R
WS-400*	4.000	3.876	.068	3.842	(+.000/-.040)	.061	(+/-.003)	.218	(+.005/-.005)	32,200	17,530	O/R
WS-406*	4.063	3.939	.068	3.906	(+.000/-.040)	.061	(+/-.003)	.218	(+.005/-.005)	32,700	17,810	O/R
WS-412*	4.125	4.000	.068	3.967	(+.000/-.040)	.061	(+/-.003)	.218	(+.005/-.005)	33,200	18,080	O/R
WS-413*	4.134	4.010	.068	3.975	(+.000/-.040)	.061	(+/-.003)	.218	(+.005/-.005)	33,270	18,120	O/R
WS-418*	4.188	4.058	.068	4.022	(+.000/-.040)	.061	(+/-.003)	.218	(+.005/-.005)	33,710	19,240	O/R
WS-425*	4.250	4.120	.068	4.084	(+.000/-.040)	.061	(+/-.003)	.228	(+.005/-.005)	34,210	19,530	O/R
WS-431*	4.312	4.182	.068	4.147	(+.000/-.040)	.061	(+/-.003)	.228	(+.005/-.005)	34,710	19,810	O/R
WS-433*	4.331	4.200	.068	4.164	(+.000/-.040)	.061	(+/-.003)	.228	(+.005/-.005)	34,860	19,900	O/R

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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-437*	4.375	4.245	.068	4.208	(+.000/-.040)	.061	(+/-.003)	.228	(+.005/-.005)	35,210	20,100	O/R
WS-443*	4.437	4.307	.068	4.271	(+.000/-.040)	.061	(+/-.003)	.228	(+.005/-.005)	35,710	20,390	O/R
WS-450*	4.500	4.364	.068	4.326	(+.000/-.040)	.061	(+/-.003)	.238	(+.005/-.005)	36,220	21,630	8.80
WS-456*	4.562	4.422	.079	4.384	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	43,340	22,570	O/R
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	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	44,530	23,190	O/R
WS-472*	4.724	4.584	.079	4.546	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	44,880	23,370	O/R
WS-475*	4.750	4.610	.079	4.571	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	45,130	23,500	O/R
WS-481*	4.812	4.672	.079	4.633	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	45,720	23,810	O/R
WS-487*	4.875	4.735	.079	4.695	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	46,310	24,120	O/R
WS-493*	4.937	4.797	.079	4.757	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	46,900	24,430	O/R
WS-500*	5.000	4.856	.079	4.816	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	47,500	25,450	O/R
WS-511*	5.118	4.974	.079	4.934	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	48,620	26,050	O/R
WS-512*	5.125	4.981	.079	4.939	(+.000/-.040)	.072	(+/-.004)	.250	(+.005/-.005)	48,690	26,080	O/R
WS-525*	5.250	5.107	.079	5.064	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	49,880	26,720	13.79
WS-537*	5.375	5.228	.079	5.187	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	51,060	28,120	15.21
WS-550	5.500	5.353	.079	5.308	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	52,250	28,770	15.80
WS-551*	5.511	5.364	.079	5.320	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	52,360	28,830	O/R
WS-562*	5.625	5.478	.079	5.433	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	53,440	29,420	O/R
WS-575*	5.750	5.597	.079	5.550	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	54,630	31,300	O/R
WS-587*	5.875	5.722	.079	5.674	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	55,810	31,980	O/R
WS-590*	5.905	5.752	.079	5.705	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	56,100	32,140	O/R
WS-600*	6.000	5.847	.079	5.798	(+.000/-.050)	.072	(+/-.004)	.250	(+.005/-.005)	57,000	32,660	O/R
WS-612*	6.125	5.953	.094	5.903	(+.000/-.050)	.086	(+/-.004)	.312	(+.006/-.006)	69,500	37,230	O/R
WS-625*	6.250	6.078	.094	6.026	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	70,920	37,990	O/R
WS-629*	6.299	6.127	.094	6.076	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	71,480	38,290	O/R
WS-637*	6.375	6.203	.094	6.152	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	72,340	38,750	O/R
WS-650*	6.500	6.328	.094	6.274	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	73,760	39,510	O/R
WS-662*	6.625	6.443	.094	6.390	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	75,180	42,620	O/R
WS-675*	6.750	6.568	.094	6.513	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	76,600	43,420	O/R
WS-687*	6.875	6.693	.094	6.638	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	78,010	44,220	O/R
WS-700*	7.000	6.818	.094	6.761	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	79,430	45,030	O/R
WS-712*	7.125	6.933	.094	6.877	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	80,850	48,350	O/R
WS-725*	7.250	7.058	.094	6.999	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	82,270	49,200	O/R
WS-737*	7.375	7.183	.094	7.125	(+.000/-.060)	.086	(+/-.004)	.312	(+.006/-.006)	83,690	50,050	O/R
WS-750*	7.500	7.308	.094	7.250	(+.000/-.070)	.086	(+/-.004)	.312	(+.006/-.006)	85,110	50,890	O/R
WS-762*	7.625	7.423	.094	7.363	(+.000/-.070)	.086	(+/-.004)	.312	(+.006/-.006)	86,520	54,440	O/R
WS-775*	7.750	7.548	.094	7.486	(+.000/-.070)	.086	(+/-.004)	.312	(+.006/-.006)	87,940	55,330	O/R
WS-787*	7.875	7.673	.094	7.611	(+.000/-.070)	.086	(+/-.004)	.312	(+.006/-.006)	89,360	56,220	O/R
WS-800*	8.000	7.798	.094	7.734	(+.000/-.070)	.086	(+/-.004)	.312	(+.006/-.006)	90,780	57,110	O/R
WS-825*	8.250	8.038	.094	7.972	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	93,620	61,820	O/R
WS-850*	8.500	8.288	.094	8.220	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	96,450	63,690	O/R
WS-875*	8.750	8.528	.094	8.459	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	99,290	68,650	O/R
WS-900*	9.000	8.778	.094	8.707	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	102,130	70,620	O/R
WS-925*	9.250	9.018	.094	8.945	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	104,960	75,850	O/R
WS-950*	9.500	9.268	.094	9.194	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	107,800	77,900	O/R
WS-975*	9.750	9.508	.094	9.432	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	110,640	83,390	O/R
WS-1000*	10.000	9.758	.094	9.680	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	113,470	85,530	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-1025*	10.250	9.998	.094	9.918	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	116,310	91,290	O/R
WS-1050*	10.500	10.248	.094	10.166	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	119,150	93,520	O/R
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	(+.000/-.070)	.086	(+/-.004)	.375	(+.006/-.006)	124,820	101,860	O/R

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-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	(+.000/-.013)	.035	(+/-.002)	.045	(+.004/-.004)	2,530	460	O/R
WST-55*	0.551	0.524	.039	0.518	(+.000/-.013)	.035	(+/-.002)	.045	(+.004/-.004)	2,790	550	O/R
WST-56*	0.562	0.535	.039	0.529	(+.000/-.013)	.035	(+/-.002)	.045	(+.004/-.004)	2,840	560	O/R
WST-59*	0.594	0.565	.039	0.559	(+.000/-.013)	.035	(+/-.002)	.045	(+.004/-.004)	3,000	630	O/R
WST-62*	0.625	0.596	.039	0.590	(+.000/-.013)	.035	(+/-.002)	.055	(+.004/-.004)	3,160	660	O/R
WST-66*	0.669	0.638	.039	0.630	(+.000/-.013)	.035	(+/-.002)	.055	(+.004/-.004)	3,380	760	O/R
WST-68	0.688	0.655	.046	0.648	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,180	830	O/R
WST-75*	0.750	0.715	.046	0.708	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,550	950	O/R
WST-78*	0.781	0.745	.046	0.738	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,740	990	O/R
WST-81*	0.812	0.776	.046	0.768	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,930	1,030	O/R
WST-87*	0.875	0.835	.046	0.827	(+.000/-.013)	.042	(+/-.002)	.075	(+.004/-.004)	5,310	1,240	O/R
WST-93*	0.938	0.894	.046	0.886	(+.000/-.013)	.042	(+/-.002)	.075	(+.004/-.004)	5,690	1,460	1.66
WST-98*	0.984	0.940	.046	0.934	(+.000/-.013)	.042	(+/-.002)	.075	(+.004/-.004)	5,970	1,530	O/R
WST-100*	1.000	0.955	.046	0.947	(+.000/-.013)	.042	(+/-.002)	.075	(+.004/-.004)	6,070	1,630	O/R
WST-102*	1.023	0.977	.046	0.969	(+.000/-.013)	.042	(+/-.002)	.075	(+.004/-.004)	6,210	1,660	O/R
WST-106*	1.062	1.015	.056	1.005	(+.000/-.015)	.050	(+/-.002)	.088	(+.004/-.004)	7,010	1,800	1.73
WST-112*	1.125	1.075	.056	1.064	(+.000/-.015)	.050	(+/-.002)	.088	(+.004/-.004)	7,420	1,990	O/R
WST-118*	1.188	1.135	.056	1.126	(+.000/-.015)	.050	(+/-.002)	.088	(+.004/-.004)	7,370	2,270	O/R
WST-125*	1.250	1.195	.056	1.184	(+.000/-.015)	.050	(+/-.002)	.093	(+.004/-.004)	8,250	2,470	O/R
WST-131*	1.312	1.250	.056	1.240	(+.000/-.015)	.050	(+/-.002)	.098	(+.004/-.004)	8,660	2,880	O/R
WST-137*	1.375	1.310	.056	1.298	(+.000/-.015)	.050	(+/-.002)	.103	(+.004/-.004)	9,070	3,210	O/R
WST-143*	1.438	1.370	.056	1.359	(+.000/-.015)	.050	(+/-.002)	.103	(+.004/-.004)	9,490	3,460	O/R
WST-150*	1.500	1.430	.056	1.419	(+.000/-.015)	.050	(+/-.002)	.103	(+.004/-.004)	9,900	3,710	O/R
WST-156*	1.562	1.490	.068	1.476	(+.000/-.020)	.062	(+/-.003)	.108	(+.004/-.004)	12,780	3,980	O/R
WST-162*	1.625	1.550	.068	1.537	(+.000/-.020)	.062	(+/-.003)	.118	(+.004/-.004)	13,290	4,370	2.41
WST-168*	1.687	1.610	.068	1.598	(+.000/-.020)	.062	(+/-.003)	.118	(+.004/-.004)	13,800	4,650	4.20
WST-175*	1.750	1.670	.068	1.657	(+.000/-.020)	.062	(+/-.003)	.118	(+.004/-.004)	14,320	4,950	3.90
WST-177*	1.771	1.689	.068	1.676	(+.000/-.020)	.062	(+/-.003)	.123	(+.004/-.004)	14,490	5,130	O/R
WST-181*	1.812	1.730	.068	1.714	(+.000/-.020)	.062	(+/-.003)	.123	(+.004/-.004)	14,820	5,250	O/R
WST-187*	1.875	1.790	.068	1.774	(+.000/-.020)	.062	(+/-.003)	.123	(+.004/-.004)	15,340	5,700	3.95
WST-196*	1.969	1.879	.068	1.864	(+.000/-.020)	.062	(+/-.003)	.123	(+.004/-.004)	16,110	6,260	O/R
WST-200*	2.000	1.910	.068	1.894	(+.000/-.025)	.062	(+/-.003)	.128	(+.004/-.004)	16,360	6,360	O/R
WST-206*	2.062	1.970	.086	1.955	(+.000/-.025)	.078	(+/-.003)	.141	(+.004/-.004)	21,220	6,710	O/R
WST-212*	2.125	2.027	.086	2.012	(+.000/-.025)	.078	(+/-.003)	.141	(+.004/-.004)	21,870	7,360	O/R
WST-215*	2.156	2.057	.086	2.041	(+.000/-.025)	.078	(+/-.003)	.141	(+.004/-.004)	22,190	7,620	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-225*	2.250	2.145	.086	2.129	(+.000/-.025)	.078	(+/-.003)	.141	(+.004/-.004)	23,160	8,430	O/R
WST-231*	2.312	2.205	.086	2.188	(+.000/-.025)	.078	(+/-.003)	.141	(+.004/-.004)	23,800	8,830	O/R
WST-237*	2.375	2.265	.086	2.248	(+.000/-.025)	.078	(+/-.003)	.141	(+.004/-.004)	24,440	9,230	O/R
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	(+.000/-.025)	.078	(+/-.003)	.188	(+.005/-.005)	25,730	10,250	7.26
WST-255*	2.559	2.443	.086	2.424	(+.000/-.025)	.078	(+/-.003)	.188	(+.005/-.005)	26,340	10,490	O/R
WST-262*	2.625	2.505	.086	2.485	(+.000/-.025)	.078	(+/-.003)	.188	(+.005/-.005)	27,020	11,130	7.70
WST-268*	2.687	2.565	.086	2.545	(+.000/-.025)	.078	(+/-.003)	.188	(+.005/-.005)	27,660	11,590	O/R
WST-275*	2.750	2.625	.103	2.604	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	32,140	12,250	7.23
WST-287*	2.875	2.742	.103	2.722	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	33,600	13,620	O/R
WST-293*	2.937	2.801	.103	2.780	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	34,320	14,120	O/R
WST-300*	3.000	2.860	.103	2.838	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	35,060	14,840	7.32
WST-306*	3.062	2.920	.103	2.897	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	35,790	15,370	O/R
WST-312*	3.125	2.980	.103	2.957	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	36,520	16,130	O/R
WST-315*	3.156	3.010	.103	2.986	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	36,880	16,290	O/R
WST-325*	3.250	3.100	.103	3.075	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	37,980	17,230	O/R
WST-334*	3.344	3.190	.103	3.164	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	39,080	18,200	O/R
WST-343*	3.437	3.280	.103	3.254	(+.000/-.030)	.093	(+/-.003)	.188	(+.005/-.005)	40,170	19,190	8.55
WST-350	3.500	3.340	.120	3.153	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	48,820	19,790	10.17
WST-354*	3.543	3.381	.120	3.356	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	49,420	20,290	O/R
WST-362*	3.625	3.458	.120	3.433	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	50,560	21,520	O/R
WST-368*	3.687	3.517	.120	3.490	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	51,430	22,150	O/R
WST-375*	3.750	3.577	.120	3.550	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	52,310	23,060	11.24
WST-387*	3.875	3.696	.120	3.670	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	54,050	24,650	O/R
WST-393*	3.938	3.756	.120	3.730	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	54,930	25,330	O/R
WST-400*	4.000	3.815	.120	3.787	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	55,800	26,300	18.34
WST-425*	4.250	4.065	.120	4.032	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	59,280	27,940	30.65
WST-437*	4.375	4.190	.120	4.162	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	61,030	28,760	O/R
WST-450*	4.500	4.310	.120	4.280	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	62,770	30,220	18.41
WST-475*	4.750	4.550	.120	4.515	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	66,260	33,580	O/R
WST-500*	5.000	4.790	.120	4.755	(+.000/-.040)	.111	(+/-.003)	.250	(+.005/-.005)	69,740	37,110	9.83
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	(+.000/-.050)	.127	(+/-.004)	.375	(+.006/-.006)	87,780	45,880	O/R
WST-575*	5.750	5.505	.139	5.466	(+.000/-.050)	.127	(+/-.004)	.375	(+.006/-.006)	91,770	49,990	O/R
WST-600*	6.000	5.745	.139	5.705	(+.000/-.050)	.127	(+/-.004)	.375	(+.006/-.006)	95,760	54,290	O/R
WST-625*	6.250	5.985	.174	5.942	(+.000/-.060)	.165	(+/-.005)	.312	(+.006/-.006)	129,590	58,760	O/R
WST-650*	6.500	6.225	.174	6.182	(+.000/-.060)	.165	(+/-.005)	.312	(+.006/-.006)	134,780	63,410	O/R
WST-675*	6.750	6.465	.174	6.420	(+.000/-.060)	.165	(+/-.005)	.312	(+.006/-.006)	139,960	68,230	44.74
WST-700*	7.000	6.705	.174	6.658	(+.000/-.060)	.165	(+/-.005)	.312	(+.006/-.006)	145,140	73,230	O/R
WST-725*	7.250	6.942	.174	6.894	(+.000/-.070)	.165	(+/-.005)	.312	(+.006/-.006)	172,190	78,290	O/R
WST-750*	7.500	7.180	.209	7.130	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	178,130	84,820	O/R
WST-775*	7.750	7.420	.209	7.368	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	184,070	90,390	O/R
WST-800*	8.000	7.660	.209	7.607	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	190,000	96,130	O/R
WST-825*	8.250	7.900	.209	7.845	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	195,940	102,050	O/R
WST-850*	8.500	8.140	.209	8.083	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	201,880	108,150	O/R
WST-875*	8.750	8.383	.209	8.321	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	207,820	113,800	O/R
WST-900*	9.000	8.620	.209	8.560	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	213,750	120,870	O/R
WST-925*	9.250	8.860	.209	8.798	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	219,690	127,500	O/R

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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-950*	9.500	9.100	.209	9.036	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	225,630	134,300	O/R
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	(+.000/-.070)	.189	(+/-.005)	.375	(+.006/-.006)	237,500	150,560	O/R

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-25*	0.250	0.230	.029	0.228	(+.000/-.010)	.025	(+/-.002)	.020	(+.004/-.004)	961	177	O/R
WSM-31*	0.312	0.290	.029	0.287	(+.000/-.010)	.025	(+/-.002)	.025	(+.004/-.004)	1,200	243	O/R
WSM-37*	0.375	0.352	.029	0.349	(+.000/-.010)	.025	(+/-.002)	.030	(+.004/-.004)	1,442	305	O/R
WSM-43*	0.437	0.412	.029	0.409	(+.000/-.012)	.025	(+/-.002)	.035	(+.004/-.004)	1,680	386	O/R
WSM-46*	0.469	0.443	.029	0.439	(+.000/-.013)	.025	(+/-.002)	.045	(+.004/-.004)	1,880	430	O/R
WSM-50*	0.500	0.468	.039	0.464	(+.000/-.013)	.035	(+/-.002)	.050	(+.004/-.004)	2,530	570	0.96
WSM-55*	0.551	0.519	.039	0.514	(+.000/-.013)	.035	(+/-.002)	.050	(+.004/-.004)	2,790	620	O/R
WSM-56*	0.562	0.530	.039	0.525	(+.000/-.013)	.035	(+/-.002)	.050	(+.004/-.004)	2,840	640	O/R
WSM-59*	0.594	0.559	.039	0.554	(+.000/-.013)	.035	(+/-.002)	.050	(+.004/-.004)	3,000	760	O/R
WSM-62*	0.625	0.588	.039	0.583	(+.000/-.013)	.035	(+/-.002)	.055	(+.004/-.004)	3,160	840	1.07
WSM-66*	0.669	0.629	.039	0.623	(+.000/-.013)	.035	(+/-.002)	.055	(+.004/-.004)	3,380	950	O/R
WSM-68*	0.688	0.646	.046	0.641	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,180	1,020	O/R
WSM-75*	0.750	0.704	.046	0.698	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,550	1,220	2.06
WSM-78*	0.781	0.733	.046	0.727	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,740	1,330	O/R
WSM-81*	0.812	0.762	.046	0.756	(+.000/-.013)	.042	(+/-.002)	.065	(+.004/-.004)	4,930	1,440	O/R
WSM-87*	0.875	0.821	.046	0.814	(+.000/-.013)	.042	(+/-.002)	.075	(+.004/-.004)	5,310	1,670	2.27
WSM-93*	0.938	0.882	.046	0.875	(+.000/-.013)	.042	(+/-.002)	.075	(+.004/-.004)	5,690	1,860	O/R
WSM-98*	0.984	0.926	.046	0.919	(+.000/-.013)	.042	(+/-.002)	.085	(+.004/-.004)	5,970	2,020	O/R
WSM-100*	1.000	0.940	.046	0.932	(+.000/-.013)	.042	(+/-.002)	.085	(+.004/-.004)	6,070	2,120	2.33
WSM-102*	1.023	0.961	.046	0.953	(+.000/-.013)	.042	(+/-.002)	.085	(+.004/-.004)	6,210	2,240	O/R
WSM-106*	1.062	0.998	.056	0.986	(+.000/-.013)	.050	(+/-.002)	.103	(+.004/-.004)	7,010	2,400	O/R
WSM-112*	1.125	1.059	.056	1.047	(+.000/-.013)	.050	(+/-.002)	.103	(+.004/-.004)	7,420	2,620	2.33
WSM-118*	1.188	1.118	.056	1.105	(+.000/-.013)	.050	(+/-.002)	.103	(+.004/-.004)	7,840	2,940	O/R
WSM-125*	1.250	1.176	.056	1.163	(+.000/-.013)	.050	(+/-.002)	.103	(+.004/-.004)	8,250	3,270	2.55
WSM-131*	1.312	1.232	.056	1.218	(+.000/-.013)	.050	(+/-.002)	.118	(+.004/-.004)	8,660	3,710	O/R
WSM-137*	1.375	1.291	.056	1.277	(+.000/-.013)	.050	(+/-.002)	.118	(+.004/-.004)	9,070	4,080	2.55
WSM-143*	1.438	1.350	.056	1.336	(+.000/-.013)	.050	(+/-.002)	.118	(+.004/-.004)	9,490	4,470	O/R
WSM-150*	1.500	1.406	.056	1.390	(+.000/-.013)	.050	(+/-.002)	.118	(+.004/-.004)	9,900	4,980	2.69
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	(+.000/-.020)	.062	(+/-.003)	.128	(+.004/-.004)	13,290	5,510	O/R
WSM-168*	1.687	1.589	.068	1.573	(+.000/-.020)	.062	(+/-.003)	.128	(+.004/-.004)	13,800	5,840	O/R
WSM-175*	1.750	1.650	.068	1.633	(+.000/-.020)	.062	(+/-.003)	.128	(+.004/-.004)	14,320	6,190	2.70
WSM-177*	1.771	1.669	.068	1.651	(+.000/-.020)	.062	(+/-.003)	.128	(+.004/-.004)	14,490	6,380	O/R
WSM-181*	1.812	1.708	.068	1.690	(+.000/-.020)	.062	(+/-.003)	.128	(+.004/-.004)	14,820	6,660	O/R
WSM-187*	1.875	1.769	.068	1.751	(+.000/-.020)	.062	(+/-.003)	.158	(+.004/-.004)	15,340	7,020	O/R
WSM-196*	1.969	1.857	.068	1.838	(+.000/-.020)	.062	(+/-.003)	.158	(+.004/-.004)	16,110	7,790	O/R
WSM-200*	2.000	1.886	.068	1.867	(+.000/-.020)	.062	(+/-.003)	.158	(+.004/-.004)	16,360	8,060	7.12
WSM-206*	2.062	1.946	.086	1.932	(+.000/-.025)	.078	(+/-.003)	.168	(+.005/-.005)	21,220	8,450	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-212*	2.125	2.003	.086	1.989	(+.000/-.025)	.078	(+/-.003)	.168	(+.005/-.005)	21,870	9,160	O/R
WSM-215*	2.156	2.032	.086	2.018	(+.000/-.025)	.078	(+/-.003)	.168	(+.005/-.005)	22,190	9,450	O/R
WSM-225*	2.250	2.120	.086	2.105	(+.000/-.025)	.078	(+/-.003)	.168	(+.005/-.005)	23,160	10,340	O/R
WSM-231*	2.312	2.178	.086	2.163	(+.000/-.025)	.078	(+/-.003)	.168	(+.005/-.005)	23,800	10,950	O/R
WSM-237	2.375	2.239	.086	2.223	(+.000/-.025)	.078	(+/-.003)	.200	(+.005/-.005)	24,440	11,420	O/R
WSM-243*	2.437	2.299	.086	2.283	(+.000/-.025)	.078	(+/-.003)	.200	(+.005/-.005)	25,080	11,890	O/R
WSM-250*	2.500	2.360	.086	2.343	(+.000/-.025)	.078	(+/-.003)	.200	(+.005/-.005)	25,730	12,370	O/R
WSM-255*	2.559	2.419	.086	2.402	(+.000/-.025)	.078	(+/-.003)	.200	(+.005/-.005)	26,340	12,660	O/R
WSM-262*	2.625	2.481	.086	2.464	(+.000/-.025)	.078	(+/-.003)	.200	(+.005/-.005)	27,020	13,360	O/R
WSM-268*	2.687	2.541	.086	2.523	(+.000/-.025)	.078	(+/-.003)	.200	(+.005/-.005)	27,660	13,870	O/R
WSM-275*	2.750	2.602	.103	2.584	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	32,140	14,390	O/R
WSM-287*	2.875	2.721	.103	2.702	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	33,600	15,650	O/R
WSM-293*	2.937	2.779	.103	2.760	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	34,320	16,400	O/R
WSM-300*	3.000	2.838	.103	2.818	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	35,060	17,180	O/R
WSM-306*	3.062	2.898	.103	2.878	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	35,790	17,750	O/R
WSM-312*	3.125	2.957	.103	2.936	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	36,520	18,560	O/R
WSM-315*	3.156	2.986	.103	2.965	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	36,880	18,960	O/R
WSM-325*	3.250	3.076	.103	3.054	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	37,980	19,990	8.79
WSM-334*	3.344	3.166	.103	3.144	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	39,080	21,040	O/R
WSM-343*	3.437	3.257	.103	3.234	(+.000/-.030)	.093	(+/-.003)	.225	(+.005/-.005)	40,170	21,870	O/R
WSM-350*	3.500	3.316	.120	3.293	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	48,820	22,760	O/R
WSM-354*	3.543	3.357	.120	3.333	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	49,420	23,290	O/R
WSM-362*	3.625	3.435	.120	3.411	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	50,560	24,340	O/R
WSM-368*	3.687	3.493	.120	3.469	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	51,430	25,280	O/R
WSM-375*	3.750	3.552	.120	3.527	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	52,310	26,240	O/R
WSM-387*	3.875	3.673	.120	3.647	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	54,050	27,670	O/R
WSM-393*	3.938	3.734	.120	3.708	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	54,930	28,390	O/R
WSM-400*	4.000	3.792	.120	3.765	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	55,800	29,410	O/R
WSM-425*	4.250	4.065	.120	4.037	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	59,280	27,940	O/R
WSM-437*	4.375	4.190	.120	4.161	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	61,030	28,760	O/R
WSM-450*	4.500	4.310	.120	4.280	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	62,770	30,220	O/R
WSM-475*	4.750	4.550	.120	4.518	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	66,260	36,930	O/R
WSM-500*	5.000	4.790	.120	4.756	(+.000/-.035)	.111	(+/-.003)	.270	(+.005/-.005)	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	(+.000/-.050)	.127	(+/-.004)	.350	(+.006/-.006)	87,780	45,880	O/R
WSM-575*	5.750	5.505	.139	5.466	(+.000/-.050)	.127	(+/-.004)	.350	(+.006/-.006)	91,770	49,990	O/R
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	(+.000/-.060)	.156	(+/-.005)	.418	(+.007/-.007)	127,420	63,410	O/R
WSM-675*	6.750	6.465	.174	6.410	(+.000/-.060)	.156	(+/-.005)	.418	(+.007/-.007)	132,330	68,230	O/R
WSM-700*	7.000	6.705	.174	6.648	(+.000/-.060)	.156	(+/-.005)	.418	(+.007/-.007)	137,230	73,230	O/R
WSM-725*	7.250	6.942	.174	6.891	(+.000/-.060)	.156	(+/-.005)	.418	(+.007/-.007)	142,130	78,920	O/R
WSM-750*	7.500	7.180	.209	7.130	(+.000/-.070)	.187	(+/-.005)	.437	(+.007/-.007)	176,240	84,820	O/R
WSM-775*	7.750	7.420	.209	7.368	(+.000/-.070)	.187	(+/-.005)	.437	(+.007/-.007)	182,120	90,390	O/R
WSM-800*	8.000	7.660	.209	7.606	(+.000/-.070)	.187	(+/-.005)	.437	(+.007/-.007)	187,990	96,130	O/R
WSM-825*	8.250	7.900	.209	7.845	(+.000/-.070)	.187	(+/-.005)	.437	(+.007/-.007)	193,870	102,050	O/R
WSM-850*	8.500	8.140	.209	8.083	(+.000/-.070)	.187	(+/-.005)	.437	(+.007/-.007)	199,740	108,150	O/R
WSM-875*	8.750	8.383	.209	8.324	(+.000/-.070)	.187	(+/-.005)	.437	(+.007/-.007)	205,620	113,800	O/R

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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-900*	9.000	8.620	.209	8.560	(+.000/-.070)	.187	(+/-.005)	.500	(+.007/-.007)	211,490	120,870	O/R
WSM-925*	9.250	8.860	.209	8.798	(+.000/-.070)	.187	(+/-.005)	.500	(+.007/-.007)	217,370	127,500	O/R
WSM-950*	9.500	9.100	.209	9.036	(+.000/-.070)	.187	(+/-.005)	.500	(+.007/-.007)	223,240	134,300	O/R
WSM-975*	9.750	9.338	.209	9.275	(+.000/-.070)	.187	(+/-.005)	.500	(+.007/-.007)	229,120	141,970	O/R
WSM-1000*	10.000	9.575	.209	9.508	(+.000/-.070)	.187	(+/-.005)	.500	(+.007/-.007)	234,990	150,560	O/R
WSM-1025*	10.250	9.814	.209	9.745	(+.000/-.090)	.187	(+/-.005)	.500	(+.007/-.007)	240,870	157,950	O/R
WSM-1050*	10.500	10.054	.209	9.984	(+.000/-.090)	.187	(+/-.005)	.500	(+.007/-.007)	246,740	165,510	O/R
WSM-1075*	10.750	10.293	.209	10.221	(+.000/-.090)	.187	(+/-.005)	.500	(+.007/-.007)	252,620	174,010	O/R
WSM-1100*	11.000	10.533	.209	10.459	(+.000/-.090)	.187	(+/-.005)	.500	(+.007/-.007)	258,490	181,950	O/R
WSM-1125*	11.250	10.772	.209	10.692	(+.000/-.090)	.187	(+/-.005)	.500	(+.007/-.007)	264,360	190,060	O/R
WSM-1150*	11.500	11.011	.209	10.934	(+.000/-.090)	.187	(+/-.005)	.562	(+.015/-.010)	270,240	199,160	O/R
WSM-1175*	11.750	11.250	.209	11.171	(+.000/-.090)	.187	(+/-.005)	.562	(+.015/-.010)	276,120	207,640	O/R
WSM-1200*	12.000	11.490	.209	11.410	(+.000/-.090)	.187	(+/-.005)	.562	(+.015/-.010)	281,990	216,300	O/R
WSM-1225*	12.250	11.729	.209	11.647	(+.000/-.090)	.187	(+/-.005)	.562	(+.015/-.010)	287,860	226,000	O/R
WSM-1250*	12.500	11.969	.209	11.885	(+.000/-.090)	.187	(+/-.005)	.562	(+.015/-.010)	293,740	235,030	O/R
WSM-1275*	12.750	12.208	.209	12.124	(+.000/-.110)	.187	(+/-.005)	.562	(+.015/-.010)	299,610	244,240	O/R
WSM-1300*	13.000	12.448	.209	12.361	(+.000/-.110)	.187	(+/-.005)	.662	(+.015/-.010)	305,490	253,620	O/R
WSM-1325*	13.250	12.687	.209	12.598	(+.000/-.110)	.187	(+/-.005)	.662	(+.015/-.010)	311,360	264,120	O/R
WSM-1350*	13.500	12.927	.209	12.837	(+.000/-.110)	.187	(+/-.005)	.662	(+.015/-.010)	317,240	273,870	O/R
WSM-1375*	13.750	13.166	.209	13.074	(+.000/-.110)	.187	(+/-.005)	.662	(+.015/-.010)	323,110	283,800	O/R
WSM-1400*	14.000	13.405	.209	13.311	(+.000/-.110)	.187	(+/-.005)	.662	(+.015/-.010)	328,990	294,900	O/R
WSM-1425*	14.250	13.644	.209	13.548	(+.000/-.110)	.187	(+/-.005)	.662	(+.015/-.010)	334,860	305,200	O/R
WSM-1450*	14.500	13.884	.209	13.787	(+.000/-.110)	.187	(+/-.005)	.750	(+.015/-.010)	340,740	315,680	O/R
WSM-1475*	14.750	14.123	.209	14.024	(+.000/-.110)	.187	(+/-.005)	.750	(+.015/-.010)	346,610	327,380	O/R
WSM-1500*	15.000	14.363	.209	14.262	(+.000/-.110)	.187	(+/-.005)	.750	(+.015/-.010)	352,490	338,230	O/R

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

COTTER PIN

Ref. Number	Description	$	Ref. Number	Description	$
PIC12100*	01.000" - COTTER PIN	0.25	PIC18175*	01.750" - COTTER PIN	0.74
PIC12150*	01.500" - COTTER PIN	0.31	PIC18200*	02.000" - COTTER PIN	0.71
PIC12175Z*	01.750" - COTTER PIN	0.31	PIC18300*	03.000" - COTTER PIN	1.02
PIC12200*	02.000" - COTTER PIN	0.35	PIC25300	03.000" - COTTER PIN	1.73
PIC12250*	02.500" - COTTER PIN	0.47	PIC25400*	04.000" - COTTER PIN	2.76
PIC18150*	01.500" - COTTER PIN	0.64	PIC31300*	03.000" - COTTER PIN	2.85
			PIC31600*	06.000" - COTTER PIN	7.53

ROLL PIN FASTENER

Ref. Number	Description	$	Ref. Number	Description	$
PIR12075*	00.750" - ROLL PIN FASTENER	0.43	PIR21100*	01.000" - ROLL PIN FASTENER	1.96
PIR15150*	01.500" - ROLL PIN FASTENER	0.95	PIR25150*	01.500" - ROLL PIN FASTENER	2.27
PIR18100*	01.000" - ROLL PIN FASTENER	1.09	PIR25200*	02.000" - ROLL PIN FASTENER	2.35
PIR18150*	01.500" - ROLL PIN FASTENER	1.24	PIR25225	02.250" - ROLL PIN FASTENER	3.11
PIR18175*	01.750" - ROLL PIN FASTENER	1.19	PIR25250	02.500" - ROLL PIN FASTENER	3.11
PIR18175*	01.750" - ROLL PIN FASTENER	1.42	PIR25275*	02.750" - ROLL PIN FASTENER	3.06
PIR18200*	02.000" - ROLL PIN FASTENER	1.61	PIR31350	03.500" - ROLL PIN FASTENER	3.72
PIR18250*	02.500" - ROLL PIN FASTENER	1.93			

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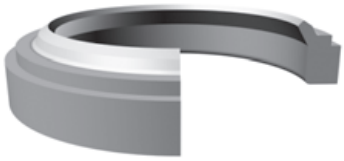
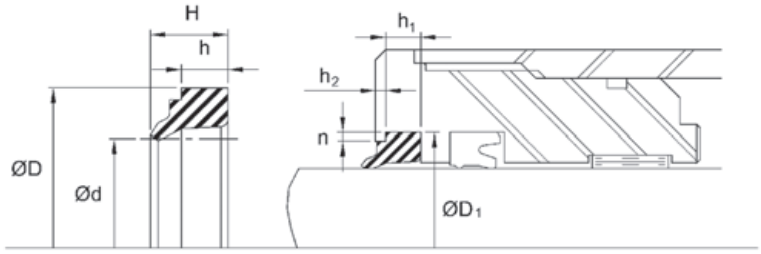
	WA/N	I	2
	WA/U	I	5
	WB - WB/U	I	7
	WC	I	9
	WC/U	I	11
	WF	I	17
	WG	I	19
	WH	I	21
	WJ	I	22
	WM	I	24
	WN	I	25
	WO	I	31
	WR	I	35
	WS	I	37
	WT	I	40
	WT/N	I	42
	WU	I	43
	WV	I	45
	WW	I	46
	WZ	I	48

WA/N - Rod Wipers

Nitrile NBR 90A





Temperature: -40/212F [-40/100C] **Pressure: N/A**

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	2.16
W008016040WA/N*	8.00	+0.00 / -0.04	8.00	16.00		7.00	16.00	+0.11 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W010016026WA/N*	10.00	+0.00 / -0.04	10.00	16.00		5.00	16.00	+0.11 / -0.00	2.60	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W010018040WA/N*	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	2.16
W012018026WA/N	12.00	+0.00 / -0.04	12.00	18.00		5.00	18.00	+0.13 / -0.00	2.60	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W012020040WA/N	12.00	+0.00 / -0.04	12.00	20.00		7.00	20.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W014020031WA/N*	14.00	+0.00 / -0.04	14.00	20.00		5.00	20.00	+0.13 / -0.00	3.10	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W014022040WA/N*	14.00	+0.00 / -0.04	14.00	22.00		7.00	22.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W015023040WA/N	15.00	+0.00 / -0.04	15.00	23.00		7.00	23.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W016024040WA/N*	16.00	+0.00 / -0.04	16.00	24.00		7.00	24.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W017025040WA/N*	17.00	+0.00 / -0.04	17.00	25.00		7.00	25.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W018024031WA/N	18.00	+0.00 / -0.04	18.00	24.00		5.00	24.00	+0.13 / -0.00	3.10	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W018026040WA/N*	18.00	+0.00 / -0.04	18.00	26.00		7.00	26.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W020028040WA/N*	20.00	+0.00 / -0.04	20.00	28.00		7.00	28.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W022030040WA/N*	22.00	+0.00 / -0.04	22.00	30.00		7.00	30.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W023031040WA/N*	23.00	+0.00 / -0.04	23.00	31.00		7.00	31.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W024032040WA/N	24.00	+0.00 / -0.04	24.00	32.00		7.00	32.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.16
W025033040WA/N*	25.00	+0.00 / -0.04	25.00	33.00		7.00	33.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.22
W025034040WA/N*	25.00	+0.00 / -0.04	25.00	34.00		7.00	34.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.22
W026034040WA/N*	26.00	+0.00 / -0.04	26.00	34.00		7.00	34.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.22
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	2.56
W030038040WA/N*	30.00	+0.00 / -0.04	30.00	38.00		7.00	38.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.36
W032040040WA/N*	32.00	+0.00 / -0.04	32.00	40.00		7.00	40.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.97
W033041040WA/N*	33.00	+0.00 / -0.04	33.00	41.00		7.00	41.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.56
W034042040WA/N*	34.00	+0.00 / -0.04	34.00	42.00		7.00	42.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.56
W035043040WA/N*	35.00	+0.00 / -0.04	35.00	43.00		7.00	43.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.84
W035043050WA/N*	35.00	+0.00 / -0.04	35.00	43.00		8.00	43.00	+0.16 / -0.00	5.00	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	2.84
W036044040WA/N*	36.00	+0.00 / -0.04	36.00	44.00		7.00	44.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.97
W038046040WA/N*	38.00	+0.00 / -0.04	38.00	46.00		7.00	46.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.97
W040048040WA/N*	40.00	+0.00 / -0.05	40.00	48.00		7.00	48.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.84
W041049040WA/N*	41.00	+0.00 / -0.05	41.00	49.00		7.00	49.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.84
W042050040WA/N*	42.00	+0.00 / -0.05	42.00	50.00		7.00	50.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.97
W044052040WA/N*	44.00	+0.00 / -0.05	44.00	52.00		7.00	52.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.97
W045053040WA/N*	45.00	+0.00 / -0.05	45.00	53.00		7.00	53.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.24
W045057055WA/N*	45.00	+0.00 / -0.05	45.00	57.00		10.00	57.00	+0.19 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	3.24
W046054040WA/N*	46.00	+0.00 / -0.05	46.00	54.00		7.00	54.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.24
W047055040WA/N*	47.00	+0.00 / -0.05	47.00	55.00		7.00	55.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.24
W048056040WA/N*	48.00	+0.00 / -0.05	48.00	56.00		7.00	56.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.57

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

WA/N SERIES - NBR 90A

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W050058040WA/N*	50.00	+0.00 / -0.05	50.00	58.00		7.00	58.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.64
W050062055WA/N*	50.00	+0.00 / -0.05	50.00	62.00		10.00	62.00	+0.19 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	3.85
W051059040WA/N*	51.00	+0.00 / -0.05	51.00	59.00		7.00	59.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.85
W052060040WA/N*	52.00	+0.00 / -0.05	52.00	60.00		7.00	60.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.91
W053061040WA/N*	53.00	+0.00 / -0.05	53.00	61.00		7.00	61.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.91
W054062040WA/N*	54.00	+0.00 / -0.05	54.00	62.00		7.00	62.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.91
W055063040WA/N*	55.00	+0.00 / -0.05	55.00	63.00		7.00	63.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.05
W056064040WA/N*	56.00	+0.00 / -0.05	56.00	64.00		7.00	64.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.85
W057065040WA/N*	57.00	+0.00 / -0.05	57.00	65.00		7.00	65.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.85
W058066040WA/N*	58.00	+0.00 / -0.05	58.00	66.00		7.00	66.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.85
W060068040WA/N*	60.00	+0.00 / -0.05	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	3.85
W060072055WA/N	60.00	+0.00 / -0.05	60.00	72.00		10.00	72.00	+0.19 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	3.91
W062070040WA/N*	62.00	+0.00 / -0.05	62.00	70.00		7.00	70.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.91
W063071040WA/N*	63.00	+0.00 / -0.05	63.00	71.00		7.00	71.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.32
W064072040WA/N*	64.00	+0.00 / -0.06	64.00	72.00		7.00	72.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.32
W065073040WA/N*	65.00	+0.00 / -0.06	65.00	73.00		7.00	73.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.32
W066074040WA/N*	66.00	+0.00 / -0.06	66.00	74.00		7.00	74.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.32
W067075040WA/N*	67.00	+0.00 / -0.06	67.00	75.00		7.00	75.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.32
W068076040WA/N	68.00	+0.00 / -0.06	68.00	76.00		7.00	76.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.32
W070078040WA/N*	70.00	+0.00 / -0.06	70.00	78.00		7.00	78.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.73
W072080040WA/N*	72.00	+0.00 / -0.06	72.00	80.00		7.00	80.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.73
W073081040WA/N*	73.00	+0.00 / -0.06	73.00	81.00		7.00	81.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.73
W075083040WA/N*	75.00	+0.00 / -0.06	75.00	83.00		7.00	83.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.13
W078086040WA/N*	78.00	+0.00 / -0.09	78.00	86.00		7.00	86.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.13
W080088040WA/N*	80.00	+0.00 / -0.09	80.00	88.00		7.00	88.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.92
W082090040WA/N*	82.00	+0.00 / -0.09	82.00	90.00		7.00	90.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.13
W083091040WA/N*	83.00	+0.00 / -0.09	83.00	91.00		7.00	91.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.13
W085093040WA/N*	85.00	+0.00 / -0.09	85.00	93.00		7.00	93.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.54
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	5.54
W088096040WA/N*	88.00	+0.00 / -0.09	88.00	96.00		7.00	96.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.54
W090098040WA/N*	90.00	+0.00 / -0.09	90.00	98.00		7.00	98.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.54
W092100040WA/N*	92.00	+0.00 / -0.09	92.00	100.00		7.00	100.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.54
W093101040WA/N*	93.00	+0.00 / -0.09	93.00	101.00		7.00	101.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.84
W095103040WA/N*	95.00	+0.00 / -0.09	95.00	103.00		7.00	103.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.84
W095103055WA/N*	95.00	+0.00 / -0.09	95.00	103.00		10.00	103.00	+0.22 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	5.84
W097105040WA/N*	97.00	+0.00 / -0.09	97.00	105.00		7.00	105.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	6.41
W100108040WA/N*	100.00	+0.00 / -0.09	100.00	108.00		7.00	108.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	6.68
W100108055WA/N*	100.00	+0.00 / -0.09	100.00	108.00		10.00	108.00	+0.22 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	6.68
W102114055WA/N*	102.00	+0.00 / -0.13	102.00	114.00		10.00	114.00	+0.22 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	6.68
W105117055WA/N	105.00	+0.00 / -0.13	105.00	117.00		10.00	117.00	+0.22 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	6.68
W106118055WA/N*	106.00	+0.00 / -0.13	106.00	118.00		10.00	118.00	+0.22 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	6.68
W110118040WA/N*	110.00	+0.00 / -0.13	110.00	118.00		7.00	118.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	7.69
W110118055WA/N*	110.00	+0.00 / -0.13	110.00	118.00		10.00	118.00	+0.22 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	7.69
W110122055WA/N	110.00	+0.00 / -0.13	110.00	122.00		10.00	122.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	8.97
W112124055WA/N*	112.00	+0.00 / -0.13	112.00	124.00		10.00	124.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	8.97
W113121040WA/N*	113.00	+0.00 / -0.13	113.00	121.00		7.00	121.00	+0.25 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	8.97
W114122040WA/N*	114.00	+0.00 / -0.13	114.00	122.00		7.00	122.00	+0.25 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	8.97
W115127055WA/N*	115.00	+0.00 / -0.13	115.00	127.00		10.00	127.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	8.97

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

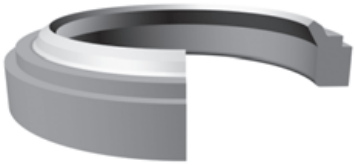
WA/N SERIES - NBR 90A

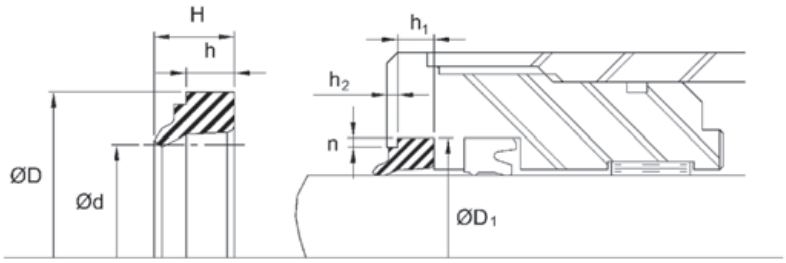
Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W118130055WA/N*	118.00	+0.00 / -0.13	118.00	130.00		10.00	130.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	8.97
W120132055WA/N	120.00	+0.00 / -0.13	120.00	132.00		10.00	132.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	9.86
W125133040WA/N*	125.00	+0.00 / -0.13	125.00	133.00		7.00	133.00	+0.25 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	9.86
W125137055WA/N*	125.00	+0.00 / -0.13	125.00	137.00		10.00	137.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	9.65
W128140055WA/N*	128.00	+0.00 / -0.13	128.00	140.00		10.00	140.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	11.34
W130142055WA/N*	130.00	+0.00 / -0.13	130.00	142.00		10.00	142.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	11.34
W131139040WA/N*	131.00	+0.00 / -0.13	131.00	139.00		7.00	139.00	+0.25 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	11.34
W135147055WA/N*	135.00	+0.00 / -0.13	135.00	147.00		10.00	147.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	11.34
W140152055WA/N	140.00	+0.00 / -0.13	140.00	152.00		10.00	152.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	12.62
W140155065WA/N*	140.00	+0.00 / -0.13	140.00	155.00		13.00	155.00	+0.25 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	12.62
W142154055WA/N*	142.00	+0.00 / -0.13	142.00	154.00		10.00	154.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	12.62
W145157055WA/N*	145.00	+0.00 / -0.13	145.00	157.00		10.00	157.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	12.62
W149157040WA/N*	149.00	+0.00 / -0.13	149.00	157.00		7.00	157.00	+0.25 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	12.62
W150162055WA/N	150.00	+0.00 / -0.13	150.00	162.00		10.00	162.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	18.42
W152164055WA/N*	152.00	+0.00 / -0.13	152.00	164.00		10.00	164.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	18.42
W154166055WA/N*	154.00	+0.00 / -0.13	154.00	166.00		10.00	166.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	18.42
W155167055WA/N*	155.00	+0.00 / -0.13	155.00	167.00		10.00	167.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	18.42
W160172055WA/N*	160.00	+0.00 / -0.13	160.00	172.00		10.00	172.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	33.54
W165177055WA/N*	165.00	+0.00 / -0.13	165.00	177.00		10.00	177.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.36
W166178055WA/N*	166.00	+0.00 / -0.13	166.00	178.00		10.00	178.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.36
W168176040WA/N*	168.00	+0.00 / -0.13	168.00	176.00		7.00	176.00	+0.25 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	24.36
W170182055WA/N*	170.00	+0.00 / -0.13	170.00	182.00		10.00	182.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.36
W175187055WA/N*	175.00	+0.00 / -0.13	175.00	187.00		10.00	187.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.36
W180192055WA/N*	180.00	+0.00 / -0.13	180.00	192.00		10.00	192.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.36
W185197055WA/N*	185.00	+0.00 / -0.13	185.00	197.00		10.00	197.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.36
W188196040WA/N*	188.00	+0.00 / -0.13	188.00	196.00		7.00	196.00	+0.29 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	24.36
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	36.17
W195207055WA/N*	195.00	+0.00 / -0.13	195.00	207.00		10.00	207.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	36.17
W200212055WA/N	200.00	+0.00 / -0.13	200.00	212.00		10.00	212.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	36.17
W210218040WA/N*	210.00	+0.00 / -0.13	210.00	218.00		7.00	218.00	+0.29 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	36.17
W210225065WA/N*	210.00	+0.00 / -0.13	210.00	225.00		13.00	225.00	+0.29 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	35.57
W220235065WA/N*	220.00	+0.00 / -0.13	220.00	235.00		13.00	235.00	+0.29 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	41.04
W230245065WA/N*	230.00	+0.00 / -0.13	230.00	245.00		13.00	245.00	+0.29 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	41.04
W235250065WA/N*	235.00	+0.00 / -0.13	235.00	250.00		13.00	250.00	+0.29 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	41.04
W238253065WA/N*	238.00	+0.00 / -0.13	238.00	253.00		13.00	253.00	+0.29 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	50.02
W240255065WA/N*	240.00	+0.00 / -0.13	240.00	255.00		13.00	255.00	+0.32 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	114.39
W250265065WA/N*	250.00	+0.00 / -0.13	250.00	265.00		13.00	265.00	+0.32 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	74.17
W260275065WA/N	260.00	+0.00 / -0.13	260.00	275.00		13.00	275.00	+0.32 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	38.73
W265280065WA/N*	265.00	+0.00 / -0.13	265.00	280.00		13.00	280.00	+0.32 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	87.19
W300315065WA/N*	300.00	+0.00 / -0.13	300.00	315.00		13.00	315.00	+0.32 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	87.19
W305320065WA/N*	305.00	+0.00 / -0.13	305.00	320.00		13.00	320.00	+0.32 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	114.59
W310325065WA/N*	310.00	+0.00 / -0.13	310.00	325.00		13.00	325.00	+0.36 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	166.02
W315330065WA/N*	315.00	+0.00 / -0.13	315.00	330.00		13.00	330.00	+0.36 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	146.49
W320335065WA/N*	320.00	+0.00 / -0.13	320.00	335.00		13.00	335.00	+0.36 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	166.01
W340355065WA/N*	340.00	+0.00 / -0.13	340.00	355.00		13.00	355.00	+0.36 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	181.72
W365380065WA/N*	365.00	+0.00 / -0.13	365.00	380.00		13.00	380.00	+0.36 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	188.48
W400415065WA/N*	400.00	+0.00 / -0.13	400.00	415.00		13.00	415.00	+0.40 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	194.20
W450465065WA/N*	450.00	+0.00 / -0.13	450.00	465.00		13.00	465.00	+0.40 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	201.60
W500515065WA/N*	500.00	+0.00 / -0.13	500.00	515.00		13.00	515.00	+0.40 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	232.07

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

WA/U - Rod Wipers

Polyurethane AU 90A





Temperature: -22/212F [-30/100C] **Pressure: N/A**

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	2.23
W012018026WA/U*	12.00	+0.00 / -0.04	12.00	18.00		5.00	18.00	+0.11 / -0.00	2.60	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.23
W012020040WA/U*	12.00	+0.00 / -0.04	12.00	20.00		7.00	20.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.50
W014022040WA/U*	14.00	+0.00 / -0.04	14.00	22.00		7.00	22.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.62
W015023040WA/U*	14.00	+0.00 / -0.04	14.00	23.00		7.00	23.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.77
W016024040WA/U	16.00	+0.00 / -0.04	16.00	24.00		7.00	24.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	1.89
W018026040WA/U	18.00	+0.00 / -0.04	18.00	26.00		7.00	26.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.07
W020028040WA/U	20.00	+0.00 / -0.04	20.00	28.00		7.00	28.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.78
W022030040WA/U	22.00	+0.00 / -0.04	22.00	30.00		7.00	30.00	+0.13 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.07
W025033040WA/U	25.00	+0.00 / -0.04	25.00	33.00		7.00	33.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	1.89
W028036040WA/U	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	2.42
W030038040WA/U	30.00	+0.00 / -0.04	30.00	38.00		7.00	38.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.54
W032040040WA/U	32.00	+0.00 / -0.04	32.00	40.00		7.00	40.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.42
W035043040WA/U	35.00	+0.00 / -0.04	35.00	43.00		7.00	43.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.54
W036044040WA/U	36.00	+0.00 / -0.04	36.00	44.00		7.00	44.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.42
W038046040WA/U	38.00	+0.00 / -0.04	38.00	46.00		7.00	46.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.26
W040048040WA/U	40.00	+0.00 / -0.05	40.00	48.00		7.00	48.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.91
W042050040WA/U	42.00	+0.00 / -0.05	42.00	50.00		7.00	50.00	+0.16 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.03
W045053040WA/U	45.00	+0.00 / -0.05	45.00	53.00		7.00	53.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.67
W050058040WA/U	50.00	+0.00 / -0.05	50.00	58.00		7.00	58.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.42
W055063040WA/U	55.00	+0.00 / -0.05	55.00	63.00		7.00	63.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.87
W056064040WA/U	56.00	+0.00 / -0.05	56.00	64.00		7.00	64.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.87
W060068040WA/U	60.00	+0.00 / -0.05	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	3.61
W062070040WA/U*	62.00	+0.00 / -0.05	62.00	70.00		7.00	70.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.78
W063071040WA/U	63.00	+0.00 / -0.05	63.00	71.00		7.00	71.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.61
W065071040WA/U*	65.00	+0.00 / -0.05	65.00	71.00		7.00	71.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.77
W065073040WA/U	65.00	+0.00 / -0.06	65.00	73.00		7.00	73.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.75
W070078040WA/U	70.00	+0.00 / -0.06	70.00	78.00		7.00	78.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	2.91
W072080040WA/U*	72.00	+0.00 / -0.06	72.00	80.00		7.00	80.00	+0.19 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.73
W075083040WA/U	75.00	+0.00 / -0.06	75.00	83.00		7.00	83.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.70
W078086040WA/U*	78.00	+0.00 / -0.09	78.00	86.00		7.00	86.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.18
W080088040WA/U	80.00	+0.00 / -0.09	80.00	88.00		7.00	88.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.10
W082090040WA/U	82.00	+0.00 / -0.09	82.00	90.00		7.00	90.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.33
W085093040WA/U	85.00	+0.00 / -0.09	85.00	93.00		7.00	93.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.78
W090098040WA/U	90.00	+0.00 / -0.09	90.00	98.00		7.00	98.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.36
W095103040WA/U*	95.00	+0.00 / -0.09	95.00	103.00		7.00	103.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.66
W100108040WA/U	100.00	+0.00 / -0.09	100.00	108.00		7.00	108.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.97

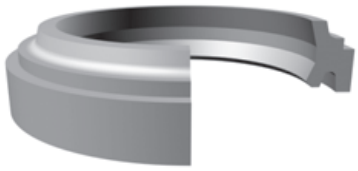
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

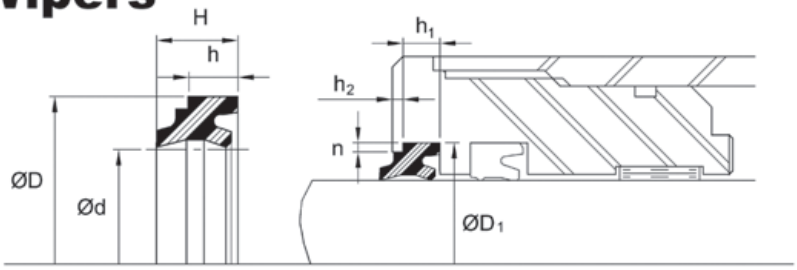
WA/U SERIES - AU 90A

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.	
W105113040WA/U*	105.00	+0.00 / -0.09	105.00	113.00		7.00	113.00	+0.22 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	6.36
W105117055WA/U*	105.00	+0.00 / -0.13	105.00	117.00		10.00	117.00	+0.22 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	6.70
W110122055WA/U*	110.00	+0.00 / -0.13	110.00	122.00		10.00	122.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	6.96
W115127055WA/U*	115.00	+0.00 / -0.13	115.00	127.00		10.00	127.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	7.76
W120132055WA/U*	120.00	+0.00 / -0.13	120.00	132.00		10.00	132.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	8.36
W125137055WA/U	125.00	+0.00 / -0.13	125.00	137.00		10.00	137.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	8.86
W130142055WA/U*	130.00	+0.00 / -0.13	130.00	142.00		10.00	142.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	9.39
W135147055WA/U*	135.00	+0.00 / -0.13	135.00	147.00		10.00	147.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	10.63
W140152055WA/U*	140.00	+0.00 / -0.13	140.00	152.00		10.00	152.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	11.06
W145157055WA/U*	145.00	+0.00 / -0.13	145.00	157.00		10.00	157.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	11.77
W150162055WA/U*	150.00	+0.00 / -0.13	150.00	162.00		10.00	162.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	12.03
W160172055WA/U	160.00	+0.00 / -0.13	160.00	172.00		10.00	172.00	+0.25 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	12.39
W170182055WA/U*	170.00	+0.00 / -0.13	170.00	182.00		10.00	182.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	13.36
W180192055WA/U*	180.00	+0.00 / -0.13	180.00	192.00		10.00	192.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	14.28
W190202055WA/U*	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	O/R
W200212055WA/U*	200.00	+0.00 / -0.13	200.00	212.00		10.00	212.00	+0.29 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	O/R
W220235055WA/U*	220.00	+0.00 / -0.13	220.00	235.00		13.00	235.00	+0.29 / -0.00	5.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	O/R
W230245055WA/U*	230.00	+0.00 / -0.13	230.00	245.00		13.00	245.00	+0.29 / -0.00	5.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	O/R
W240255055WA/U*	240.00	+0.00 / -0.13	240.00	255.00		13.00	255.00	+0.32 / -0.00	5.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	O/R
W260275055WA/U*	260.00	+0.00 / -0.13	260.00	275.00		13.00	275.00	+0.32 / -0.00	5.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	O/R
W275290055WA/U*	275.00	+0.00 / -0.13	275.00	290.00		13.00	290.00	+0.32 / -0.00	5.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	O/R

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

WB - WB/U - Rod Wipers





Nitrile NBR 90A **Temperature: -40/212F [-40/100C]** **Pressure: N/A**
Polyurethane AU 90A **Temperature: -22/212F [-30/100C]** **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$ NBR	$ AU
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.		/U
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	3.56*	4.08*
W012020040WB	12.00	+0.00 / -0.04	12.00	20.00	4.00	8.00	20.00	+0.04 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.88*	14.20*
W014022040WB	14.00	+0.00 / -0.04	14.00	22.00	4.00	8.00	22.00	+0.05 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.88*	4.62*
W015023040WB	15.00	+0.00 / -0.04	15.00	23.00	4.00	8.00	23.00	+0.05 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.88*	4.62*
W018026040WB	18.00	+0.00 / -0.04	18.00	26.00	4.00	8.00	26.00	+0.05 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.88*	4.68
W020028040WB	20.00	+0.00 / -0.04	20.00	28.00	4.00	8.00	28.00	+0.05 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.88*	6.04
W022030040WB	22.00	+0.00 / -0.04	22.00	30.00	4.00	8.00	30.00	+0.05 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.95*	6.04
W024032040WB	24.00	+0.00 / -0.04	24.00	32.00	4.00	8.00	32.00	+0.05 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.95*	O/R*
W025033040WB	25.00	+0.00 / -0.04	25.00	33.00	4.00	8.00	33.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	3.95*	6.04
W028036040WB	28.00	+0.00 / -0.04	28.00	36.00	4.00	8.00	36.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.51*	6.04
W030038040WB	30.00	+0.00 / -0.04	30.00	38.00	4.00	8.00	38.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.51*	7.21
W032040040WB	32.00	+0.00 / -0.04	32.00	40.00	4.00	8.00	40.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.64*	7.21*
W035043040WB	35.00	+0.00 / -0.04	35.00	43.00	4.00	8.00	43.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.64*	5.67
W036044040WB	36.00	+0.00 / -0.04	36.00	44.00	4.00	8.00	44.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.64*	7.21
W037045040WB	37.00	+0.00 / -0.04	37.00	45.00	4.00	8.00	45.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.65*	O/R*
W038046040WB	38.00	+0.00 / -0.04	38.00	46.00	4.00	8.00	46.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	4.82*	O/R*
W040048040WB	40.00	+0.00 / -0.05	40.00	48.00	4.00	8.00	48.00	+0.06 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.22*	7.21
W045053040WB	45.00	+0.00 / -0.05	45.00	53.00	4.00	8.00	53.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.85*	6.24
W046054040WB	46.00	+0.00 / -0.05	46.00	54.00	4.00	8.00	54.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.85*	O/R*
W048056040WB	48.00	+0.00 / -0.05	48.00	56.00	4.00	8.00	56.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.92*	O/R*
W050058040WB	50.00	+0.00 / -0.05	50.00	58.00	4.00	8.00	58.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	5.98*	8.38
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	7.00*	11.11
W060068040WB	60.00	+0.00 / -0.05	60.00	68.00	4.00	8.00	68.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	7.12*	10.13
W063071040WB	63.00	+0.00 / -0.05	63.00	71.00	4.00	8.00	71.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	7.63*	9.94
W065073040WB	65.00	+0.00 / -0.06	65.00	73.00	4.00	8.00	73.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	7.63*	11.26
W068076040WB	68.00	+0.00 / -0.06	68.00	76.00	4.00	8.00	76.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	7.63*	O/R*
W070078040WB	70.00	+0.00 / -0.06	70.00	78.00	4.00	8.00	78.00	+0.07 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	7.70*	11.30
W075083040WB	75.00	+0.00 / -0.06	75.00	83.00	4.00	8.00	83.00	+0.08 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	8.53*	11.30
W080088040WB	80.00	+0.00 / -0.09	80.00	88.00	4.00	8.00	88.00	+0.08 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	8.53*	9.58
W085093040WB	85.00	+0.00 / -0.09	85.00	93.00	4.00	8.00	93.00	+0.08 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	11.95*	10.02
W090098040WB	90.00	+0.00 / -0.09	90.00	98.00	4.00	8.00	98.00	+0.08 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	11.95*	15.20*
W095103040WB	95.00	+0.00 / -0.09	95.00	103.00	4.00	8.00	103.00	+0.08 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	13.48*	O/R*
W100108040WB	100.00	+0.00 / -0.09	100.00	108.00	4.00	8.00	108.00	+0.08 / -0.00	4.00	+0.15 / -0.00	1.00	+0.01 / -0.01	1.00	+0.02 / -0.02	16.92*	19.10*
W105117055WB	105.00	+0.00 / -0.13	105.00	117.00	5.50	11.10	117.00	+0.08 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	20.35*	15.58*
W110122055WB	110.00	+0.00 / -0.13	110.00	122.00	5.50	11.10	122.00	+0.08 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.35*	19.88
W115127055WB	115.00	+0.00 / -0.13	115.00	127.00	5.50	11.10	127.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	24.30*	17.07*
W120132055WB	120.00	+0.00 / -0.13	120.00	132.00	5.50	11.10	132.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	28.74*	20.85*

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

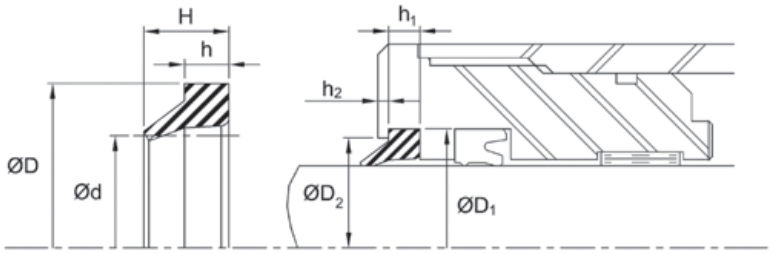
WB SERIES - NBR 90A, AU 90A

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$ NBR	$ AU
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	n	Tol.	h2	Tol.		/U
W125137055WB	125.00	+0.00 / -0.13	125.00	137.00	5.50	11.10	137.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	28.81*	33.15*
W130142055WB	130.00	+0.00 / -0.13	130.00	142.00	5.50	11.10	142.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	28.81*	25.92
W135147055WB	135.00	+0.00 / -0.13	135.00	147.00	5.50	11.10	147.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	28.87*	22.26*
W140152055WB	140.00	+0.00 / -0.13	140.00	152.00	5.50	11.10	152.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	35.23*	32.35*
W145157055WB	145.00	+0.00 / -0.13	145.00	157.00	5.50	11.10	157.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	35.29*	O/R*
W150162055WB	150.00	+0.00 / -0.13	150.00	162.00	5.50	11.10	162.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	35.35*	27.87
W155167055WB	155.00	+0.00 / -0.13	155.00	167.00	5.50	11.10	167.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	35.42*	O/R*
W160172055WB	160.00	+0.00 / -0.13	160.00	172.00	5.50	11.10	172.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	41.34*	47.96*
W165177055WB	165.00	+0.00 / -0.13	165.00	177.00	5.50	11.10	177.00	+0.10 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	41.34*	O/R*
W170182055WB	170.00	+0.00 / -0.13	170.00	182.00	5.50	11.10	182.00	+0.11 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	53.60*	57.49*
W180192055WB	180.00	+0.00 / -0.13	180.00	192.00	5.50	11.10	192.00	+0.11 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	53.73*	71.91*
W185197055WB	185.00	+0.00 / -0.13	185.00	197.00	5.50	11.10	197.00	+0.11 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	53.80*	O/R*
W190202055WB	190.00	+0.00 / -0.13	190.00	202.00	5.50	11.10	202.00	+0.11 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	65.88*	O/R*
W195207055WB	195.00	+0.00 / -0.13	195.00	207.00	5.50	11.10	207.00	+0.11 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	65.94*	O/R*
W200212055WB	200.00	+0.00 / -0.13	200.00	212.00	5.50	11.10	212.00	+0.11 / -0.00	5.50	+0.15 / -0.00	1.50	+0.01 / -0.01	1.50	+0.02 / -0.02	66.01*	86.14*
W205220065WB	205.00	+0.00 / -0.13	205.00	220.00	6.50	12.50	220.00	+0.11 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	67.54*	O/R*
W210225065WB	210.00	+0.00 / -0.13	210.00	225.00	6.50	12.50	225.00	+0.11 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	67.66*	O/R*
W225240065WB	225.00	+0.00 / -0.13	225.00	240.00	6.50	12.50	240.00	+0.11 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	67.98*	O/R*
W230245065WB	230.00	+0.00 / -0.13	230.00	245.00	6.50	12.50	245.00	+0.11 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	93.53*	O/R*
W240255065WB	240.00	+0.00 / -0.13	240.00	255.00	6.50	12.50	255.00	+0.13 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	96.40*	O/R*
W250265065WB	250.00	+0.00 / -0.13	250.00	265.00	6.50	12.50	265.00	+0.13 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	96.59*	O/R*
W260275065WB	260.00	+0.00 / -0.13	260.00	275.00	6.50	12.50	275.00	+0.13 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	96.84*	O/R*
W275290065WB	275.00	+0.00 / -0.13	275.00	290.00	6.50	12.50	290.00	+0.13 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	97.16*	O/R*
W280295065WB	280.00	+0.00 / -0.13	280.00	295.00	6.50	12.50	295.00	+0.13 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	97.23*	O/R*
W290305065WB	290.00	+0.00 / -0.13	290.00	305.00	6.50	12.50	305.00	+0.13 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	124.38*	O/R*
W300315065WB	300.00	+0.00 / -0.13	300.00	315.00	6.50	12.50	315.00	+0.13 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	124.38*	O/R*
W320335065WB	320.00	+0.00 / -0.13	320.00	335.00	6.50	12.50	335.00	+0.14 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	124.76*	O/R*
W350365065WB	350.00	+0.00 / -0.13	350.00	365.00	6.50	12.50	365.00	+0.14 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	125.39*	O/R*
W360375065WB	360.00	+0.00 / -0.13	360.00	375.00	6.50	12.50	375.00	+0.14 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	129.55*	O/R*
W370385065WB	370.00	+0.00 / -0.13	370.00	385.00	6.50	12.50	385.00	+0.14 / -0.00	6.50	+0.15 / -0.00	2.00	+0.01 / -0.01	2.00	+0.02 / -0.02	134.03*	O/R*

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

WC - Rod Wipers

Nitrile NBR 90A



Temperature: -40/212F [-40/100C] **Pressure: N/A**

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	10.33
W012018035WC	12.00	+0.00 / -0.04	12.00	18.00		5.50	18.60	+0.08 / -0.00	15.00	+0.10 / -0.00	3.80	+0.08 / -0.00	2.00	+0.20 / -0.20	1.72
W012020040WC	12.00	+0.00 / -0.04	12.00	20.00		6.00	20.60	+0.08 / -0.00	15.00	+0.10 / -0.00	4.10	+0.08 / -0.00	2.00	+0.20 / -0.20	4.70
W012020050WC*	12.00	+0.00 / -0.04	12.00	20.00		7.00	20.60	+0.08 / -0.00	15.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	1.72
W014018029WC	14.00	+0.00 / -0.04	14.00	18.00		3.90	18.60	+0.08 / -0.00	15.50	+0.10 / -0.00	3.10	+0.08 / -0.00	1.00	+0.20 / -0.20	13.55
W015021035WC*	15.00	+0.00 / -0.04	15.00	21.00		5.50	21.60	+0.08 / -0.00	18.00	+0.10 / -0.00	3.80	+0.08 / -0.00	2.00	+0.20 / -0.20	1.81
W016022028WC*	16.00	+0.00 / -0.04	16.00	22.00		3.80	22.60	+0.08 / -0.00	17.00	+0.10 / -0.00	3.00	+0.08 / -0.00	2.00	+0.20 / -0.20	1.59
W016022035WC*	16.00	+0.00 / -0.04	16.00	22.00		5.50	22.60	+0.08 / -0.00	17.00	+0.10 / -0.00	3.80	+0.08 / -0.00	2.00	+0.20 / -0.20	1.81
W018024035WC	18.00	+0.00 / -0.04	18.00	24.00		5.50	24.60	+0.08 / -0.00	21.00	+0.10 / -0.00	3.80	+0.08 / -0.00	2.00	+0.20 / -0.20	1.81
W018026040WC	18.00	+0.00 / -0.04	18.00	26.00		6.00	26.50	+0.08 / -0.00	22.50	+0.10 / -0.00	4.10	+0.08 / -0.00	2.00	+0.20 / -0.20	6.52
W019028050WC	19.00	+0.00 / -0.04	19.00	28.00		7.00	28.60	+0.08 / -0.00	22.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	1.81
W020028050WC*	20.00	+0.00 / -0.04	20.00	28.00		7.00	28.60	+0.08 / -0.00	23.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	4.35
W022030050WC	22.00	+0.00 / -0.04	22.00	30.00		7.00	30.60	+0.08 / -0.00	25.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	1.81
W024032050WC	24.00	+0.00 / -0.04	24.00	32.00		7.00	32.60	+0.08 / -0.00	27.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	1.81
W025033040WC	25.00	+0.00 / -0.04	25.00	33.00		6.00	33.60	+0.08 / -0.00	28.00	+0.10 / -0.00	4.10	+0.08 / -0.00	2.00	+0.20 / -0.20	8.05
W025033050WC	25.00	+0.00 / -0.04	25.00	33.00		7.00	33.60	+0.08 / -0.00	28.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	1.81
W028036040WC	28.00	+0.00 / -0.04	28.00	36.00		6.00	36.60	+0.08 / -0.00	31.00	+0.10 / -0.00	4.10	+0.08 / -0.00	2.00	+0.20 / -0.20	4.59
W028036050WC	28.00	+0.00 / -0.04	28.00	36.00		7.00	36.60	+0.08 / -0.00	31.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.09
W030038050WC	30.00	+0.00 / -0.04	30.00	38.00		7.00	38.60	+0.08 / -0.00	33.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.09
W030042060WC	30.00	+0.00 / -0.04	30.00	42.00		9.00	42.50	+0.08 / -0.00	36.00	+0.10 / -0.00	6.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.84
W032040050WC	32.00	+0.00 / -0.04	32.00	40.00		7.00	40.60	+0.08 / -0.00	35.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.18
W032044060WC	32.00	+0.00 / -0.04	32.00	44.00		9.00	44.60	+0.08 / -0.00	38.00	+0.10 / -0.00	6.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.52
W035043050WC	35.00	+0.00 / -0.04	35.00	43.00		7.00	43.60	+0.08 / -0.00	38.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.18
W036044050WC	36.00	+0.00 / -0.04	36.00	44.00		7.00	44.60	+0.08 / -0.00	39.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.18
W040048050WC	40.00	+0.00 / -0.05	40.00	48.00		7.00	48.60	+0.08 / -0.00	43.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.45
W040052060WC	40.00	+0.00 / -0.05	40.00	52.00		9.00	52.20	+0.08 / -0.00	46.00	+0.10 / -0.00	6.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.61
W042050050WC	42.00	+0.00 / -0.05	42.00	50.00		7.00	50.60	+0.08 / -0.00	45.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.72
W045053050WC	45.00	+0.00 / -0.05	45.00	53.00		7.00	53.60	+0.08 / -0.00	48.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.72
W045055050WC	45.00	+0.00 / -0.05	45.00	55.00		7.00	55.60	+0.08 / -0.00	49.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.72
W048056050WC	48.00	+0.00 / -0.05	48.00	56.00		7.00	56.60	+0.08 / -0.00	51.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.72
W050058050WC	50.00	+0.00 / -0.05	50.00	58.00		7.00	58.60	+0.08 / -0.00	53.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.72
W050060050WC	50.00	+0.00 / -0.05	50.00	60.00		7.00	60.60	+0.08 / -0.00	54.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.09
W050062050WC	50.00	+0.00 / -0.05	50.00	62.00		7.00	62.20	+0.08 / -0.00	56.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.36
W050062060WC	50.00	+0.00 / -0.05	50.00	62.00		9.00	62.20	+0.08 / -0.00	56.00	+0.10 / -0.00	6.30	+0.08 / -0.00	2.00	+0.20 / -0.20	4.50
W055063050WC	55.00	+0.00 / -0.05	55.00	63.00		7.00	63.60	+0.08 / -0.00	58.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.09
W055065050WC	55.00	+0.00 / -0.05	55.00	65.00		7.00	65.60	+0.08 / -0.00	59.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	4.10
W056066050WC	56.00	+0.00 / -0.05	56.00	66.00		7.00	66.60	+0.08 / -0.00	59.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.52
W056066063WC	56.00	+0.00 / -0.05	56.00	66.00		9.00	66.60	+0.08 / -0.00	59.00	+0.10 / -0.00	6.50	+0.08 / -0.00	2.00	+0.20 / -0.20	14.10

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

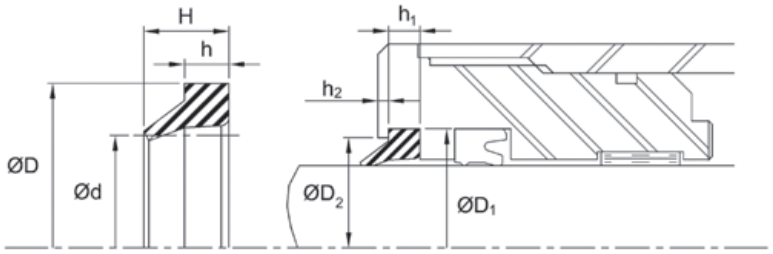
WC SERIES - NBR 90A

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W058068050WC*	58.00	+0.00 / -0.05	58.00	68.00		7.00	68.60	+0.08 / -0.00	61.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.27
W060068050WC*	60.00	+0.00 / -0.05	60.00	68.00		7.00	68.60	+0.08 / -0.00	63.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	2.99
W060070050WC	60.00	+0.00 / -0.05	60.00	70.00		7.00	70.60	+0.08 / -0.00	63.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	5.08
W060072060WC	60.00	+0.00 / -0.05	60.00	72.00		9.00	72.20	+0.08 / -0.00	66.00	+0.10 / -0.00	6.30	+0.08 / -0.00	2.00	+0.20 / -0.20	8.20
W063071050WC*	63.00	+0.00 / -0.05	63.00	71.00		7.00	71.60	+0.08 / -0.00	66.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	4.35
W063073050WC	63.00	+0.00 / -0.05	63.00	73.00		7.00	73.60	+0.08 / -0.00	67.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	4.35
W063075060WC	63.00	+0.00 / -0.05	63.00	75.00		9.00	75.60	+0.08 / -0.00	69.00	+0.10 / -0.00	6.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.36
W065073050WC*	65.00	+0.00 / -0.06	65.00	73.00		7.00	73.60	+0.08 / -0.00	68.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	3.27
W065075050WC*	65.00	+0.00 / -0.06	65.00	75.00		7.00	75.60	+0.08 / -0.00	69.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	5.56
W065077060WC	65.00	+0.00 / -0.06	65.00	77.00		9.00	77.00	+0.08 / -0.00	71.00	+0.10 / -0.00	6.30	+0.08 / -0.00	3.00	+0.20 / -0.20	10.94
W070078050WC*	70.00	+0.00 / -0.06	70.00	78.00		7.00	78.60	+0.10 / -0.00	73.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	7.55
W070080050WC*	70.00	+0.00 / -0.06	70.00	80.00		7.00	80.60	+0.10 / -0.00	73.00	+0.10 / -0.00	5.30	+0.08 / -0.00	2.00	+0.20 / -0.20	4.97
W070082070WC	70.00	+0.00 / -0.06	70.00	82.00		12.00	82.60	+0.10 / -0.00	76.00	+0.10 / -0.00	7.10	+0.08 / -0.00	5.00	+0.20 / -0.20	4.97
W075083050WC*	75.00	+0.00 / -0.06	75.00	83.00		7.00	83.60	+0.10 / -0.00	78.00	+0.10 / -0.00	5.30	+0.10 / -0.00	2.00	+0.20 / -0.20	5.65
W075087070WC	75.00	+0.00 / -0.06	75.00	87.00		12.00	87.20	+0.10 / -0.00	81.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	3.99
W080088050WC*	80.00	+0.00 / -0.09	80.00	88.00		7.00	88.60	+0.10 / -0.00	83.00	+0.10 / -0.00	5.30	+0.10 / -0.00	2.00	+0.20 / -0.20	3.63
W080092070WC*	80.00	+0.00 / -0.09	80.00	92.00		12.00	92.20	+0.10 / -0.00	86.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	5.54
W085093050WC*	85.00	+0.00 / -0.09	85.00	93.00		7.00	93.60	+0.10 / -0.00	86.00	+0.10 / -0.00	5.30	+0.10 / -0.00	2.00	+0.20 / -0.20	5.08
W085097070WC*	85.00	+0.00 / -0.09	85.00	97.00		12.00	97.20	+0.10 / -0.00	91.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	6.17
W090098050WC	90.00	+0.00 / -0.09	90.00	98.00		7.00	98.60	+0.10 / -0.00	93.00	+0.10 / -0.00	5.30	+0.10 / -0.00	2.00	+0.20 / -0.20	6.17
W090102070WC	90.00	+0.00 / -0.09	90.00	102.00		12.00	102.20	+0.10 / -0.00	96.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	6.15
W100112070WC	100.00	+0.00 / -0.09	100.00	112.00		12.00	112.20	+0.10 / -0.00	106.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	7.03
W105117070WC*	105.00	+0.00 / -0.13	105.00	117.00		12.00	117.20	+0.10 / -0.00	111.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	17.17
W110122070WC	110.00	+0.00 / -0.13	110.00	122.00		12.00	122.20	+0.10 / -0.00	116.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	8.73
W120132070WC*	120.00	+0.00 / -0.13	120.00	132.00		12.00	132.20	+0.10 / -0.00	126.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	8.44
W125140100WC	125.00	+0.00 / -0.13	125.00	140.00		16.00	140.20	+0.10 / -0.00	132.60	+0.10 / -0.00	10.10	+0.10 / -0.00	6.00	+0.20 / -0.20	9.16
W130142070WC*	130.00	+0.00 / -0.13	130.00	142.00		12.00	142.20	+0.10 / -0.00	136.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	8.53
W140152070WC*	140.00	+0.00 / -0.13	140.00	152.00		12.00	152.20	+0.10 / -0.00	146.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	11.37
W140155100WC*	140.00	+0.00 / -0.13	140.00	155.00		16.00	155.20	+0.10 / -0.00	147.00	+0.10 / -0.00	10.10	+0.10 / -0.00	6.00	+0.20 / -0.20	10.94
W145153050WC*	145.00	+0.00 / -0.13	145.00	153.00		7.00	153.60	+0.10 / -0.00	148.00	+0.10 / -0.00	5.30	+0.10 / -0.00	2.00	+0.20 / -0.20	13.23
W150162070WC*	150.00	+0.00 / -0.13	150.00	162.00		12.00	162.20	+0.10 / -0.00	156.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	24.98
W150165100WC*	150.00	+0.00 / -0.13	150.00	165.00		16.00	165.20	+0.10 / -0.00	157.60	+0.10 / -0.00	10.10	+0.10 / -0.00	6.00	+0.20 / -0.20	11.25
W160175100WC*	160.00	+0.00 / -0.13	160.00	175.00		16.00	175.20	+0.10 / -0.00	168.00	+0.10 / -0.00	10.10	+0.10 / -0.00	6.00	+0.20 / -0.20	11.61
W165173050WC*	165.00	+0.00 / -0.13	165.00	173.00		7.00	173.60	+0.10 / -0.00	168.00	+0.10 / -0.00	5.30	+0.10 / -0.00	2.00	+0.20 / -0.20	17.69
W170182070WC*	170.00	+0.00 / -0.13	170.00	182.00		12.00	182.20	+0.10 / -0.00	176.00	+0.10 / -0.00	7.10	+0.10 / -0.00	5.00	+0.20 / -0.20	15.43
W180200100WC	180.00	+0.00 / -0.13	180.00	200.00		18.00	200.20	+0.13 / -0.00	190.00	+0.10 / -0.00	10.20	+0.13 / -0.00	8.00	+0.20 / -0.20	21.05
W190210100WC*	190.00	+0.00 / -0.13	190.00	210.00		18.00	210.20	+0.13 / -0.00	200.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	21.23
W200220100WC	200.00	+0.00 / -0.13	200.00	220.00		18.00	220.20	+0.13 / -0.00	210.00	+0.10 / -0.00	10.20	+0.13 / -0.00	8.00	+0.20 / -0.20	12.44
W220240100WC*	220.00	+0.00 / -0.13	220.00	240.00		18.00	240.20	+0.13 / -0.00	230.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	25.13
W230250100WC*	230.00	+0.00 / -0.13	230.00	250.00		18.00	250.20	+0.13 / -0.00	240.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	29.67
W240260100WC	240.00	+0.00 / -0.13	240.00	260.00		18.00	260.20	+0.13 / -0.00	250.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	13.82
W250270100WC	250.00	+0.00 / -0.13	250.00	270.00		18.00	270.20	+0.13 / -0.00	260.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	14.38
W260280100WC*	260.00	+0.00 / -0.13	260.00	280.00		18.00	280.20	+0.13 / -0.00	270.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	30.31
W270290100WC*	270.00	+0.00 / -0.13	270.00	290.00		18.00	290.20	+0.13 / -0.00	280.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	34.30
W300315100WC*	300.00	+0.00 / -0.13	300.00	315.70		18.00	315.20	+0.13 / -0.00	305.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	54.95
W300320100WC*	300.00	+0.00 / -0.13	300.00	320.00		18.00	320.20	+0.13 / -0.00	310.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	38.38
W320340100WC*	320.00	+0.00 / -0.13	320.00	340.00		18.00	340.20	+0.13 / -0.00	330.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	133.56
W360380100WC*	360.00	+0.00 / -0.13	360.00	380.00		18.00	380.20	+0.13 / -0.00	370.00	+0.10 / -0.00	10.20	+0.13 / -0.00	6.00	+0.20 / -0.20	153.41
W450465125WC*	450.00	+0.00 / -0.13	450.00	465.00		20.00	465.20	+0.13 / -0.00	459.00	+0.10 / -0.00	13.00	+0.13 / -0.00	7.00	+0.20 / -0.20	1569.47

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

WC/U - Rod Wipers

Polyurethane AU 90A



Temperature: -22/212F [-30/100C] **Pressure: N/A**

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	2.00
W008014035WC/U	8.00	+0.00 / -0.04	8.00	14.00	3.50	4.50	14.60	+0.08 / -0.00	11.00	+0.08 / -0.00	3.80	+0.10 / -0.00	0.70	+0.20 / -0.20	2.00
W008016050WC/U*	8.00	+0.00 / -0.04	8.00	16.00	5.00	8.00	16.00	+0.08 / -0.00	12.00	+0.08 / -0.00	5.30	+0.10 / -0.00	2.70	+0.20 / -0.20	13.57
W010016035WC/U*	10.00	+0.00 / -0.04	10.00	16.00	3.50	5.00	16.00	+0.08 / -0.00	12.80	+0.08 / -0.00	3.80	+0.10 / -0.00	1.20	+0.20 / -0.20	2.19
W010018050WC/U*	10.00	+0.00 / -0.04	10.00	18.00	5.00	8.00	18.00	+0.08 / -0.00	12.40	+0.08 / -0.00	5.30	+0.10 / -0.00	2.70	+0.20 / -0.20	2.00
W012016030WC/U*	12.00	+0.00 / -0.04	12.00	16.00	3.00	4.50	16.20	+0.08 / -0.00	14.20	+0.08 / -0.00	3.30	+0.10 / -0.00	1.20	+0.20 / -0.20	2.26
W012018034WC/U*	12.00	+0.00 / -0.04	12.00	18.00	3.40	5.50	18.60	+0.08 / -0.00	14.00	+0.08 / -0.00	3.70	+0.10 / -0.00	1.80	+0.20 / -0.20	2.00
W012018035WC/U	12.00	+0.00 / -0.04	12.00	18.00	3.50	5.00	18.60	+0.08 / -0.00	15.00	+0.08 / -0.00	3.80	+0.10 / -0.00	1.20	+0.20 / -0.20	2.00
W012020050WC/U*	12.00	+0.00 / -0.04	12.00	20.00	5.00	8.00	20.00	+0.08 / -0.00	16.00	+0.08 / -0.00	5.30	+0.10 / -0.00	2.70	+0.20 / -0.20	10.00
W014018020WC/U*	14.00	+0.00 / -0.04	14.00	18.00	2.00	3.30	18.60	+0.08 / -0.00	17.00	+0.08 / -0.00	2.30	+0.10 / -0.00	1.00	+0.20 / -0.20	2.48
W014020035WC/U	14.00	+0.00 / -0.04	14.00	20.00	3.50	5.00	20.60	+0.08 / -0.00	17.00	+0.08 / -0.00	3.80	+0.10 / -0.00	1.20	+0.20 / -0.20	2.48
W015021035WC/U*	15.00	+0.00 / -0.04	15.00	21.00	3.50	5.00	21.80	+0.08 / -0.00	18.00	+0.08 / -0.00	3.80	+0.10 / -0.00	1.20	+0.20 / -0.20	2.76
W015027050WC/U*	15.00	+0.00 / -0.04	15.00	27.00	5.00	7.00	27.30	+0.08 / -0.00	18.50	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.57
W016022028WC/U	16.00	+0.00 / -0.04	16.00	22.00	2.80	4.00	22.80	+0.08 / -0.00	19.00	+0.08 / -0.00	3.10	+0.10 / -0.00	0.90	+0.20 / -0.20	2.76
W016022035WC/U*	16.00	+0.00 / -0.04	16.00	22.00	3.50	5.50	22.60	+0.08 / -0.00	19.00	+0.08 / -0.00	3.70	+0.10 / -0.00	1.80	+0.20 / -0.20	2.29
W016022039WC/U*	16.00	+0.00 / -0.04	16.00	22.00	3.90	5.00	22.60	+0.08 / -0.00	19.00	+0.08 / -0.00	3.90	+0.10 / -0.00	1.10	+0.20 / -0.20	2.76
W016024050WC/U*	16.00	+0.00 / -0.04	16.00	24.00	5.00	7.00	24.60	+0.08 / -0.00	19.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.29
W018024035WC/U	18.00	+0.00 / -0.04	18.00	24.00	3.50	5.00	24.00	+0.08 / -0.00	20.40	+0.08 / -0.00	3.80	+0.10 / -0.00	1.20	+0.20 / -0.20	2.76
W018024050WC/U*	18.00	+0.00 / -0.04	18.00	24.00	5.00	7.00	24.00	+0.08 / -0.00	21.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	7.73
W018026050WC/U*	18.00	+0.00 / -0.04	18.00	26.00	5.00	7.00	26.60	+0.08 / -0.00	21.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.29
W020026032WC/U*	20.00	+0.00 / -0.04	20.00	26.00	3.20	4.50	26.00	+0.08 / -0.00	23.00	+0.08 / -0.00	3.40	+0.10 / -0.00	1.10	+0.20 / -0.20	4.19
W020028050WC/U	20.00	+0.00 / -0.04	20.00	28.00	5.00	7.00	28.60	+0.08 / -0.00	23.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.29
W020030050WC/U	20.00	+0.00 / -0.04	20.00	30.00	5.00	7.00	30.00	+0.08 / -0.00	22.40	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.38
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	2.95
W022030050WC/U	22.00	+0.00 / -0.04	22.00	30.00	5.00	7.00	30.60	+0.08 / -0.00	25.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.57
W024032020WC/U*	24.00	+0.00 / -0.04	24.00	32.00	2.00	3.50	32.00	+0.08 / -0.00	26.80	+0.08 / -0.00	2.30	+0.10 / -0.00	1.20	+0.20 / -0.20	2.95
W024032050WC/U*	24.00	+0.00 / -0.04	24.00	32.00	5.00	7.00	32.60	+0.08 / -0.00	27.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.57
W025030045WC/U*	25.00	+0.00 / -0.04	25.00	30.00	4.50	6.50	30.00	+0.08 / -0.00	27.20	+0.08 / -0.00	4.80	+0.10 / -0.00	1.70	+0.20 / -0.20	2.86
W025033050WC/U	25.00	+0.00 / -0.04	25.00	33.00	5.00	7.00	33.60	+0.08 / -0.00	28.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.57
W025035050WC/U	25.00	+0.00 / -0.04	25.00	35.00	5.00	7.00	35.00	+0.08 / -0.00	29.80	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	15.92
W027035050WC/U*	27.00	+0.00 / -0.04	27.00	35.00	5.00	7.00	35.00	+0.08 / -0.00	29.40	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.14
W028036050WC/U	28.00	+0.00 / -0.04	28.00	36.00	5.00	7.00	36.60	+0.08 / -0.00	31.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.57
W030038050WC/U	30.00	+0.00 / -0.04	30.00	38.00	5.00	7.00	38.60	+0.08 / -0.00	33.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.86
W030040028WC/U	30.00	+0.00 / -0.04	30.00	40.00	2.80	4.00	40.20	+0.08 / -0.00	34.20	+0.08 / -0.00	3.10	+0.10 / -0.00	0.90	+0.20 / -0.20	3.62
W030045050WC/U*	30.00	+0.00 / -0.04	30.00	45.00	5.00	8.00	45.00	+0.08 / -0.00	35.40	+0.08 / -0.00	5.30	+0.10 / -0.00	2.70	+0.20 / -0.20	3.43
W032040035WC/U	32.00	+0.00 / -0.04	32.00	40.00	3.50	5.00	40.20	+0.08 / -0.00	35.00	+0.08 / -0.00	3.80	+0.10 / -0.00	1.20	+0.20 / -0.20	3.53
W032040050WC/U	32.00	+0.00 / -0.04	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	+0.20 / -0.20	2.86
W033042050WC/U*	33.00	+0.00 / -0.04	33.00	42.00	5.00	7.00	42.00	+0.08 / -0.00	35.40	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.86

*** : 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.	
W035040035WC/U	35.00	+0.00 / -0.04	35.00	40.00	3.50	5.00	40.20	+0.08 / -0.00	38.00	+0.08 / -0.00	3.80	+0.10 / -0.00	1.20	+0.20 / -0.20	3.24
W035043050WC/U	35.00	+0.00 / -0.04	35.00	43.00	5.00	7.00	43.60	+0.08 / -0.00	38.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.86
W036044050WC/U	36.00	+0.00 / -0.04	36.00	44.00	5.00	7.00	44.60	+0.08 / -0.00	39.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.86
W038046050WC/U	38.00	+0.00 / -0.04	38.00	46.00	5.00	7.00	46.60	+0.08 / -0.00	41.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	2.86
W040048040WC/U*	40.00	+0.00 / -0.05	40.00	48.00	4.00	7.00	48.60	+0.08 / -0.00	43.00	+0.08 / -0.00	4.30	+0.10 / -0.00	2.70	+0.20 / -0.20	4.10
W040048050WC/U	40.00	+0.00 / -0.05	40.00	48.00	5.00	7.00	48.60	+0.08 / -0.00	43.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.43
W040050050WC/U*	40.00	+0.00 / -0.05	40.00	50.00	5.00	7.00	50.60	+0.08 / -0.00	43.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.10
W040052050WC/U*	40.00	+0.00 / -0.05	40.00	52.00	5.00	8.00	52.20	+0.08 / -0.00	46.00	+0.08 / -0.00	5.30	+0.10 / -0.00	2.70	+0.20 / -0.20	4.57
W042050050WC/U	42.00	+0.00 / -0.05	42.00	50.00	5.00	7.00	50.60	+0.08 / -0.00	45.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.43
W045053050WC/U*	45.00	+0.00 / -0.05	45.00	53.00	5.00	7.00	53.60	+0.08 / -0.00	48.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.43
W045055050WC/U	45.00	+0.00 / -0.05	45.00	55.00	5.00	7.00	55.60	+0.08 / -0.00	48.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.43
W045060040WC/U*	45.00	+0.00 / -0.05	45.00	60.00	4.00	6.00	60.00	+0.08 / -0.00	52.40	+0.08 / -0.00	4.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.91
W046054050WC/U	46.00	+0.00 / -0.05	46.00	54.00	5.00	7.00	54.00	+0.08 / -0.00	48.40	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.62
W047055050WC/U*	47.00	+0.00 / -0.05	47.00	55.00	5.00	7.00	55.60	+0.08 / -0.00	50.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	7.95
W048056050WC/U*	48.00	+0.00 / -0.05	48.00	56.00	5.00	7.00	56.60	+0.08 / -0.00	51.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.81
W050058040WC/U*	50.00	+0.00 / -0.05	50.00	58.00	4.00	6.00	58.60	+0.08 / -0.00	53.00	+0.08 / -0.00	4.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.57
W050058050WC/U	50.00	+0.00 / -0.05	50.00	58.00	5.00	7.00	58.60	+0.08 / -0.00	53.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	3.81
W050060050WC/U	50.00	+0.00 / -0.05	50.00	60.00	5.00	7.00	60.60	+0.08 / -0.00	53.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W050062050WC/U*	50.00	+0.00 / -0.05	50.00	62.00	5.00	7.00	62.00	+0.08 / -0.00	55.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.95
W050065040WC/U*	50.00	+0.00 / -0.05	50.00	65.00	4.00	6.00	65.60	+0.08 / -0.00	53.20	+0.08 / -0.00	4.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.24
W053061050WC/U*	53.00	+0.00 / -0.05	53.00	61.00	5.00	7.00	61.60	+0.08 / -0.00	56.20	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.76
W055063050WC/U	55.00	+0.00 / -0.05	55.00	63.00	5.00	7.00	63.60	+0.08 / -0.00	58.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W055065050WC/U*	55.00	+0.00 / -0.05	55.00	65.00	5.00	7.00	65.60	+0.08 / -0.00	58.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W055067070WC/U*	55.00	+0.00 / -0.05	55.00	67.00	7.00	12.00	67.20	+0.08 / -0.00	61.00	+0.08 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	5.24
W056064050WC/U	56.00	+0.00 / -0.05	56.00	64.00	5.00	7.00	64.60	+0.08 / -0.00	59.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W056066050WC/U	56.00	+0.00 / -0.05	56.00	66.00	5.00	7.00	66.60	+0.08 / -0.00	59.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W056066060WC/U	56.00	+0.00 / -0.05	56.00	66.00	6.00	9.00	66.00	+0.08 / -0.00	60.00	+0.08 / -0.00	6.30	+0.10 / -0.00	2.70	+0.20 / -0.20	17.24
W057069060WC/U*	57.00	+0.00 / -0.05	57.00	69.00	6.00	9.52	69.85	+0.08 / -0.00	63.85	+0.08 / -0.00	6.35	+0.10 / -0.00	3.17	+0.20 / -0.20	5.24
W058068050WC/U*	58.00	+0.00 / -0.05	58.00	68.00	5.00	7.00	68.60	+0.08 / -0.00	61.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.05
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	5.05
W060070050WC/U	60.00	+0.00 / -0.05	60.00	70.00	5.00	7.00	70.60	+0.08 / -0.00	63.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W060070060WC/U	60.00	+0.00 / -0.05	60.00	70.00	6.00	10.00	70.60	+0.08 / -0.00	63.00	+0.08 / -0.00	6.30	+0.10 / -0.00	3.70	+0.20 / -0.20	5.24
W060070070WC/U	60.00	+0.00 / -0.05	60.00	70.00	7.00	10.00	70.30	+0.08 / -0.00	63.00	+0.08 / -0.00	7.20	+0.10 / -0.00	2.80	+0.20 / -0.20	5.24
W061069050WC/U*	61.00	+0.00 / -0.05	61.00	69.00	5.00	7.00	69.60	+0.08 / -0.00	64.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.24
W063071050WC/U	63.00	+0.00 / -0.05	63.00	71.00	5.00	7.00	71.60	+0.08 / -0.00	66.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W063073050WC/U*	63.00	+0.00 / -0.05	63.00	73.00	5.00	7.00	73.60	+0.08 / -0.00	66.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W063073060WC/U	63.00	+0.00 / -0.05	63.00	73.00	6.00	9.00	73.00	+0.08 / -0.00	67.00	+0.08 / -0.00	6.30	+0.10 / -0.00	2.70	+0.20 / -0.20	17.69
W065073050WC/U	65.00	+0.00 / -0.06	65.00	73.00	5.00	7.00	73.60	+0.08 / -0.00	68.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W065075050WC/U	65.00	+0.00 / -0.06	65.00	75.00	5.00	7.00	75.60	+0.08 / -0.00	68.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W065075060WC/U	65.00	+0.00 / -0.06	65.00	75.00	6.00	9.00	75.00	+0.08 / -0.00	72.00	+0.08 / -0.00	6.30	+0.10 / -0.00	2.70	+0.20 / -0.20	19.23
W065077070WC/U*	65.00	+0.00 / -0.06	65.00	77.00	7.00	12.00	77.20	+0.08 / -0.00	71.00	+0.08 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	5.53
W068076050WC/U*	68.00	+0.00 / -0.06	68.00	76.00	5.00	7.00	76.60	+0.08 / -0.00	71.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W070078040WC/U*	70.00	+0.00 / -0.06	70.00	78.00	4.00	6.00	78.00	+0.08 / -0.00	73.00	+0.08 / -0.00	4.30	+0.10 / -0.00	1.70	+0.20 / -0.20	10.47
W070078050WC/U	70.00	+0.00 / -0.06	70.00	78.00	5.00	7.00	78.60	+0.10 / -0.00	73.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W070080050WC/U	70.00	+0.00 / -0.06	70.00	80.00	5.00	7.00	80.60	+0.10 / -0.00	73.00	+0.08 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W070080063WC/U*	70.00	+0.00 / -0.06	70.00	80.00	6.30	8.00	80.00	+0.10 / -0.00	74.80	+0.10 / -0.00	6.80	+0.10 / -0.00	1.20	+0.20 / -0.20	4.38
W070080070WC/U*	70.00	+0.00 / -0.06	70.00	80.00	7.00	10.00	80.60	+0.10 / -0.00	73.00	+0.10 / -0.00	7.20	+0.10 / -0.00	2.80	+0.20 / -0.20	5.24
W070082060WC/U*	70.00	+0.00 / -0.06	70.00	82.00	6.00	9.00	82.00	+0.10 / -0.00	76.00	+0.10 / -0.00	6.30	+0.10 / -0.00	2.70	+0.20 / -0.20	69.02

*** : 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.	
W070082070WC/U	70.00	+0.00 / -0.06	70.00	82.00	7.00	12.00	82.60	+0.10 / -0.00	76.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	4.38
W073081050WC/U	73.00	+0.00 / -0.06	73.00	81.00	5.00	7.00	81.60	+0.10 / -0.00	76.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.57
W073083071WC/U*	73.00	+0.00 / -0.06	73.00	83.00	7.10	12.00	83.60	+0.10 / -0.00	76.20	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	5.24
W074082050WC/U*	74.00	+0.00 / -0.06	74.00	82.00	5.00	7.00	82.00	+0.10 / -0.00	76.60	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.24
W075083050WC/U	75.00	+0.00 / -0.06	75.00	83.00	5.00	7.00	83.20	+0.10 / -0.00	78.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.38
W075085063WC/U*	75.00	+0.00 / -0.06	75.00	85.00	6.30	8.00	85.00	+0.10 / -0.00	79.80	+0.10 / -0.00	6.80	+0.10 / -0.00	1.20	+0.20 / -0.20	4.57
W075087070WC/U	75.00	+0.00 / -0.06	75.00	87.00	7.00	12.00	87.20	+0.10 / -0.00	81.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	4.67
W076084050WC/U*	76.00	+0.00 / -0.06	76.00	84.00	5.00	7.00	84.60	+0.10 / -0.00	79.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.53
W078086050WC/U*	78.00	+0.00 / -0.06	78.00	86.00	5.00	7.00	86.00	+0.10 / -0.00	81.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.66
W078092070WC/U*	78.00	+0.00 / -0.06	78.00	92.00	7.00	12.00	92.20	+0.10 / -0.00	85.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	5.43
W080088050WC/U	80.00	+0.00 / -0.09	80.00	88.00	5.00	7.00	88.60	+0.10 / -0.00	83.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	4.86
W080090060WC/U	80.00	+0.00 / -0.09	80.00	90.00	6.00	9.00	90.20	+0.10 / -0.00	83.00	+0.10 / -0.00	6.30	+0.10 / -0.00	2.70	+0.20 / -0.20	5.91
W080090063WC/U	80.00	+0.00 / -0.09	80.00	90.00	6.30	8.00	90.00	+0.10 / -0.00	84.80	+0.10 / -0.00	6.80	+0.10 / -0.00	1.20	+0.20 / -0.20	5.91
W080091073WC/U*	80.00	+0.00 / -0.09	80.00	91.00	7.30	11.00	91.00	+0.10 / -0.00	85.00	+0.10 / -0.00	7.50	+0.10 / -0.00	3.50	+0.20 / -0.20	23.24
W080092070WC/U	80.00	+0.00 / -0.09	80.00	92.00	7.00	12.00	92.20	+0.10 / -0.00	86.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	5.43
W085093050WC/U	85.00	+0.00 / -0.09	85.00	93.00	5.00	7.00	93.60	+0.10 / -0.00	88.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.43
W085095050WC/U*	85.00	+0.00 / -0.09	85.00	95.00	5.00	7.00	95.00	+0.10 / -0.00	87.40	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.91
W085095063WC/U*	85.00	+0.00 / -0.09	85.00	95.00	6.30	8.00	95.00	+0.10 / -0.00	89.80	+0.10 / -0.00	6.80	+0.10 / -0.00	1.20	+0.20 / -0.20	5.43
W085097070WC/U	85.00	+0.00 / -0.09	85.00	97.00	7.00	12.00	97.20	+0.10 / -0.00	91.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	5.43
W085098073WC/U	85.00	+0.00 / -0.09	85.00	98.00	7.30	11.00	98.00	+0.10 / -0.00	92.00	+0.10 / -0.00	7.50	+0.10 / -0.00	3.50	+0.20 / -0.20	23.65
W088096050WC/U*	88.00	+0.00 / -0.09	88.00	96.00	5.00	7.00	96.60	+0.10 / -0.00	91.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	6.10
W088100070WC/U*	88.00	+0.00 / -0.09	88.00	100.00	7.00	12.00	100.20	+0.10 / -0.00	94.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	24.00
W090098050WC/U	90.00	+0.00 / -0.09	90.00	98.00	5.00	7.00	98.60	+0.10 / -0.00	93.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	5.22
W090100060WC/U	90.00	+0.00 / -0.09	90.00	100.00	6.00	9.00	100.00	+0.10 / -0.00	96.80	+0.10 / -0.00	6.30	+0.10 / -0.00	2.70	+0.20 / -0.20	4.95
W090100063WC/U*	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	5.43
W090102058WC/U*	90.00	+0.00 / -0.09	90.00	102.00	5.80	8.00	102.00	+0.10 / -0.00	94.00	+0.10 / -0.00	6.00	+0.10 / -0.00	2.00	+0.20 / -0.20	8.11
W090102070WC/U*	90.00	+0.00 / -0.09	90.00	102.00	7.00	12.00	102.20	+0.10 / -0.00	96.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	5.43
W091099050WC/U*	91.00	+0.00 / -0.09	91.00	99.00	5.00	7.00	99.60	+0.10 / -0.00	94.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	6.10
W095103050WC/U*	95.00	+0.00 / -0.09	95.00	103.00	5.00	7.00	103.60	+0.10 / -0.00	98.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	6.10
W095105060WC/U	95.00	+0.00 / -0.09	95.00	105.00	6.00	8.00	105.20	+0.10 / -0.00	97.60	+0.10 / -0.00	6.35	+0.10 / -0.00	1.65	+0.20 / -0.20	7.34
W095107070WC/U	95.00	+0.00 / -0.09	95.00	107.00	7.00	12.00	107.20	+0.10 / -0.00	101.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	6.10
W097105050WC/U	97.00	+0.00 / -0.09	97.00	105.00	5.00	7.00	105.00	+0.10 / -0.00	100.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	7.37
W100108050WC/U*	100.00	+0.00 / -0.09	100.00	108.00	5.00	7.00	108.60	+0.10 / -0.00	103.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	8.86
W100110050WC/U	100.00	+0.00 / -0.09	100.00	110.00	5.00	7.00	110.60	+0.10 / -0.00	104.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	26.23
W100110063WC/U*	100.00	+0.00 / -0.09	100.00	110.00	6.30	8.00	110.00	+0.10 / -0.00	104.80	+0.10 / -0.00	6.80	+0.10 / -0.00	1.20	+0.20 / -0.20	6.57
W100112070WC/U	100.00	+0.00 / -0.09	100.00	112.00	7.00	12.00	112.20	+0.10 / -0.00	106.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	6.38
W100115092WC/U*	100.00	+0.00 / -0.09	100.00	115.00	9.20	13.00	115.20	+0.10 / -0.00	108.00	+0.10 / -0.00	9.50	+0.10 / -0.00	3.50	+0.20 / -0.20	7.62
W104112050WC/U*	104.00	+0.00 / -0.13	104.00	112.00	5.00	7.00	112.00	+0.10 / -0.00	106.60	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	6.29
W105113050WC/U	105.00	+0.00 / -0.13	105.00	113.00	5.00	7.00	113.60	+0.10 / -0.00	108.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	6.38
W105117070WC/U*	105.00	+0.00 / -0.13	105.00	117.00	7.00	12.00	117.20	+0.10 / -0.00	111.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	6.38
W105120072WC/U*	105.00	+0.00 / -0.13	105.00	120.00	7.20	9.50	120.40	+0.10 / -0.00	112.40	+0.10 / -0.00	7.50	+0.10 / -0.00	2.00	+0.20 / -0.20	8.38
W106118057WC/U*	106.00	+0.00 / -0.13	106.00	118.00	5.70	9.00	118.00	+0.10 / -0.00	113.40	+0.10 / -0.00	6.00	+0.10 / -0.00	3.00	+0.20 / -0.20	8.57
W107115050WC/U*	107.00	+0.00 / -0.13	107.00	115.00	5.00	7.00	115.60	+0.10 / -0.00	110.30	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	6.57
W110118050WC/U*	110.00	+0.00 / -0.13	110.00	118.00	5.00	7.00	118.60	+0.10 / -0.00	113.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	20.28
W110122070WC/U	110.00	+0.00 / -0.13	110.00	122.00	7.00	12.00	122.20	+0.10 / -0.00	116.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	6.38
W110122070WC/U-T831	110.00	+0.00 / -0.13	110.00	122.00	7.00	12.00	122.20	+0.10 / -0.00	116.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	26.61
W110125092WC/U*	110.00	+0.00 / -0.13	110.00	125.00	9.20	13.00	125.20	+0.10 / -0.00	118.00	+0.10 / -0.00	9.50	+0.10 / -0.00	3.50	+0.20 / -0.20	8.67
W112124070WC/U	112.00	+0.00 / -0.13	112.00	124.00	7.00	12.00	124.20	+0.10 / -0.00	118.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	6.86

*** : 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.	
W113125070WC/U*	113.00	+0.00 / -0.13	113.00	125.00	7.00	12.00	125.00	+0.10 / -0.00	118.40	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	6.86
W115123050WC/U*	115.00	+0.00 / -0.13	115.00	123.00	5.00	7.00	123.20	+0.10 / -0.00	118.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	7.24
W115127070WC/U*	115.00	+0.00 / -0.13	115.00	127.00	7.00	12.00	127.20	+0.10 / -0.00	121.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	7.24
W118126047WC/U*	118.00	+0.00 / -0.13	118.00	126.00	4.70	7.00	126.00	+0.10 / -0.00	121.00	+0.10 / -0.00	5.00	+0.10 / -0.00	2.00	+0.20 / -0.20	7.53
W120128050WC/U	120.00	+0.00 / -0.13	120.00	128.00	5.00	7.00	128.60	+0.10 / -0.00	123.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	8.57
W120130050WC/U*	120.00	+0.00 / -0.13	120.00	130.00	5.00	7.00	130.00	+0.10 / -0.00	122.40	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	8.96
W120132070WC/U	120.00	+0.00 / -0.13	120.00	132.00	7.00	12.00	132.20	+0.10 / -0.00	126.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	7.62
W120135090WC/U	120.00	+0.00 / -0.13	120.00	135.00	9.00	14.00	135.00	+0.10 / -0.00	130.00	+0.10 / -0.00	9.30	+0.10 / -0.00	4.70	+0.20 / -0.20	38.90
W123131050WC/U*	123.00	+0.00 / -0.13	123.00	131.00	5.00	7.00	131.00	+0.10 / -0.00	125.40	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	8.57
W125133050WC/U*	125.00	+0.00 / -0.13	125.00	133.00	5.00	7.00	133.60	+0.10 / -0.00	128.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	7.91
W125137070WC/U	125.00	+0.00 / -0.13	125.00	137.00	7.00	12.00	137.60	+0.10 / -0.00	131.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	13.57
W125138070WC/U*	125.00	+0.00 / -0.13	125.00	138.00	7.00	12.00	137.60	+0.10 / -0.00	131.80	+0.10 / -0.00	7.20	+0.10 / -0.00	4.70	+0.20 / -0.20	7.91
W125140090WC/U	125.00	+0.00 / -0.13	125.00	140.00	9.00	15.00	140.00	+0.10 / -0.00	132.40	+0.10 / -0.00	9.30	+0.10 / -0.00	5.70	+0.20 / -0.20	8.00
W125140100WC/U	125.00	+0.00 / -0.13	125.00	140.00	10.00	16.00	140.00	+0.10 / -0.00	132.50	+0.10 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	8.48
W126134050WC/U*	126.00	+0.00 / -0.13	126.00	134.00	5.00	7.00	134.60	+0.10 / -0.00	129.60	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	8.00
W127146092WC/U*	127.00	+0.00 / -0.13	127.00	146.00	9.20	12.70	146.05	+0.10 / -0.00	139.52	+0.10 / -0.00	9.52	+0.10 / -0.00	3.18	+0.20 / -0.20	10.77
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	8.96
W128143070WC/U*	128.00	+0.00 / -0.13	128.00	143.00	7.00	12.00	143.40	+0.10 / -0.00	138.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	18.77
W128143092WC/U*	128.00	+0.00 / -0.13	128.00	143.00	9.20	12.00	143.00	+0.10 / -0.00	138.00	+0.10 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	30.36
W130142070WC/U*	130.00	+0.00 / -0.13	130.00	142.00	7.00	12.00	142.60	+0.10 / -0.00	136.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	8.96
W132144070WC/U*	132.00	+0.00 / -0.13	132.00	144.00	7.00	12.00	144.20	+0.10 / -0.00	138.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	44.15
W135147070WC/U*	135.00	+0.00 / -0.13	135.00	147.00	7.00	12.00	147.00	+0.10 / -0.00	141.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	9.24
W135150092WC/U*	135.00	+0.00 / -0.13	135.00	150.00	9.00	14.00	150.00	+0.10 / -0.00	145.00	+0.10 / -0.00	9.30	+0.10 / -0.00	4.70	+0.20 / -0.20	46.06
W140148050WC/U	140.00	+0.00 / -0.13	140.00	148.00	5.00	7.00	148.60	+0.10 / -0.00	142.80	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	9.53
W140148058WC/U*	140.00	+0.00 / -0.13	140.00	148.00	5.80	8.00	148.60	+0.10 / -0.00	143.00	+0.10 / -0.00	6.00	+0.10 / -0.00	2.00	+0.20 / -0.20	9.53
W140151050WC/U	140.00	+0.00 / -0.13	140.00	151.00	5.00	7.00	151.00	+0.10 / -0.00	O/R	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	77.60
W140152070WC/U	140.00	+0.00 / -0.13	140.00	152.00	7.00	12.00	152.20	+0.10 / -0.00	146.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	9.53
W140153070WC/U*	140.00	+0.00 / -0.13	140.00	153.00	7.00	12.00	153.00	+0.10 / -0.00	146.80	+0.10 / -0.00	7.20	+0.10 / -0.00	4.70	+0.20 / -0.20	10.96
W140155087WC/U*	140.00	+0.00 / -0.13	140.00	155.00	8.70	12.00	155.00	+0.10 / -0.00	147.40	+0.10 / -0.00	9.00	+0.10 / -0.00	3.00	+0.20 / -0.20	10.96
W140155092WC/U*	140.00	+0.00 / -0.13	140.00	155.00	9.20	12.00	155.00	+0.10 / -0.00	147.00	+0.10 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	47.88
W140155100WC/U	140.00	+0.00 / -0.13	140.00	155.00	10.00	16.00	155.00	+0.10 / -0.00	147.50	+0.10 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	9.53
W141151053WC/U*	141.00	+0.00 / -0.13	141.00	151.00	5.30	7.00	151.60	+0.10 / -0.00	147.50	+0.10 / -0.00	5.50	+0.10 / -0.00	1.50	+0.20 / -0.20	10.16
W142149040WC/U*	142.00	+0.00 / -0.13	142.00	149.00	4.00	6.00	149.00	+0.10 / -0.00	145.60	+0.10 / -0.00	4.30	+0.10 / -0.00	1.00	+0.20 / -0.20	11.15
W142150050WC/U*	142.00	+0.00 / -0.13	142.00	150.00	5.00	7.00	150.70	+0.10 / -0.00	146.10	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	11.15
W142154070WC/U*	142.00	+0.00 / -0.13	142.00	154.00	7.00	12.00	154.00	+0.10 / -0.00	147.40	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	9.53
W143151053WC/U*	143.00	+0.00 / -0.13	143.00	151.00	5.30	7.00	151.00	+0.10 / -0.00	146.00	+0.10 / -0.00	5.50	+0.10 / -0.00	1.50	+0.20 / -0.20	11.15
W145153050WC/U*	145.00	+0.00 / -0.13	145.00	153.00	5.00	7.00	153.60	+0.10 / -0.00	148.00	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	11.43
W145157070WC/U*	145.00	+0.00 / -0.13	145.00	157.00	7.00	12.00	157.20	+0.10 / -0.00	151.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	10.48
W145160090WC/U*	145.00	+0.00 / -0.13	145.00	160.00	9.00	16.00	160.20	+0.10 / -0.00	152.60	+0.10 / -0.00	9.30	+0.10 / -0.00	6.70	+0.20 / -0.20	9.91
W150162070WC/U	150.00	+0.00 / -0.13	150.00	162.00	7.00	12.00	162.00	+0.10 / -0.00	156.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	11.34
W150165070WC/U*	150.00	+0.00 / -0.13	150.00	165.00	7.00	12.00	165.00	+0.10 / -0.00	156.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	53.36
W150165100WC/U	150.00	+0.00 / -0.13	150.00	165.00	10.00	16.00	165.00	+0.10 / -0.00	157.50	+0.10 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	11.72
W152167070WC/U*	152.00	+0.00 / -0.13	152.00	167.00	7.00	12.00	167.40	+0.10 / -0.00	O/R	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	31.99
W155163050WC/U*	155.00	+0.00 / -0.13	155.00	163.00	5.00	7.00	163.00	+0.10 / -0.00	160.50	+0.10 / -0.00	5.20	+0.10 / -0.00	1.80	+0.20 / -0.20	54.87
W155167070WC/U*	155.00	+0.00 / -0.13	155.00	167.00	7.00	12.00	167.20	+0.10 / -0.00	161.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	10.09
W155169063WC/U*	155.00	+0.00 / -0.13	155.00	169.00	6.30	10.00	169.60	+0.10 / -0.00	160.60	+0.10 / -0.00	6.80	+0.10 / -0.00	3.20	+0.20 / -0.20	14.67
W155175100WC/U*	155.00	+0.00 / -0.13	155.00	170.00	10.00	16.00	170.00	+0.10 / -0.00	162.50	+0.10 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	11.72
W160168050WC/U	160.00	+0.00 / -0.13	160.00	168.00	5.00	7.00	168.00	+0.10 / -0.00	162.40	+0.10 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	15.63

*** : 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.	
W160172070WC/U	160.00	+0.00 / -0.13	160.00	172.00	7.00	12.00	172.00	+0.10 / -0.00	166.00	+0.10 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	15.63
W160175092WC/U*	160.00	+0.00 / -0.13	160.00	175.00	9.20	13.00	175.00	+0.10 / -0.00	167.40	+0.10 / -0.00	9.50	+0.10 / -0.00	3.50	+0.20 / -0.20	15.63
W160175100WC/U	160.00	+0.00 / -0.13	160.00	175.00	10.00	16.00	175.00	+0.13 / -0.00	167.50	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	15.63
W163175070WC/U	163.00	+0.00 / -0.13	163.00	175.00	7.00	12.00	175.80	+0.13 / -0.00	169.00	+0.10 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	15.72
W165180092WC/U*	165.00	+0.00 / -0.13	165.00	180.00	9.20	14.00	180.00	+0.13 / -0.00	175.00	+0.10 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	57.53
W170180050WC/U*	170.00	+0.00 / -0.13	170.00	180.00	5.00	7.00	180.60	+0.13 / -0.00	174.00	+0.13 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	43.44
W170182070WC/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	20.20
W170182100WC/U*	170.00	+0.00 / -0.13	170.00	182.00	10.00	16.00	182.00	+0.13 / -0.00	176.00	+0.10 / -0.00	10.30	+0.10 / -0.00	5.70	+0.20 / -0.20	20.20
W170185092WC/U*	170.00	+0.00 / -0.13	170.00	185.00	9.20	13.00	185.00	+0.13 / -0.00	180.00	+0.13 / -0.00	9.50	+0.10 / -0.00	3.50	+0.20 / -0.20	43.44
W170185100WC/U*	170.00	+0.00 / -0.13	170.00	185.00	10.00	16.00	185.00	+0.13 / -0.00	177.50	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	20.96
W171186100WC/U*	171.00	+0.00 / -0.13	171.00	186.00	10.00	16.00	186.20	+0.13 / -0.00	178.60	+0.13 / -0.00	10.30	+0.10 / -0.00	5.70	+0.20 / -0.20	26.49
W172184070WC/U*	172.00	+0.00 / -0.13	172.00	184.00	7.00	12.00	184.00	+0.13 / -0.00	177.40	+0.13 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	20.20
W175185072WC/U*	175.00	+0.00 / -0.13	175.00	185.00	7.20	12.00	175.00	+0.13 / -0.00	180.00	+0.13 / -0.00	7.50	+0.10 / -0.00	4.50	+0.20 / -0.20	26.22
W177192092WC/U*	177.00	+0.00 / -0.13	177.00	192.00	9.20	14.00	192.00	+0.13 / -0.00	187.00	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	58.70
W180188050WC/U*	180.00	+0.00 / -0.13	180.00	188.00	5.00	7.00	188.00	+0.13 / -0.00	182.40	+0.13 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	21.15
W180195070WC/U*	180.00	+0.00 / -0.13	180.00	195.00	7.00	12.00	195.40	+0.13 / -0.00	O/R	+0.13 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	39.95
W180195092WC/U*	180.00	+0.00 / -0.13	180.00	195.00	9.20	14.00	195.00	+0.13 / -0.00	189.80	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	24.10
W180195100WC/U	180.00	+0.00 / -0.13	180.00	195.00	10.00	16.00	195.00	+0.13 / -0.00	188.00	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	16.75
W180200100WC/U	180.00	+0.00 / -0.13	180.00	200.00	10.00	18.00	200.00	+0.13 / -0.00	190.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	24.10
W185193050WC/U*	185.00	+0.00 / -0.13	185.00	193.00	5.00	7.00	193.00	+0.13 / -0.00	188.00	+0.13 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	25.85
W185197070WC/U*	185.00	+0.00 / -0.13	185.00	197.00	7.00	12.00	197.00	+0.13 / -0.00	191.00	+0.13 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	24.10
W188200070WC/U*	188.00	+0.00 / -0.13	188.00	200.00	7.00	12.00	200.20	+0.13 / -0.00	194.00	+0.13 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	39.49
W190205100WC/U*	190.00	+0.00 / -0.13	190.00	205.00	10.00	16.00	205.20	+0.13 / -0.00	198.00	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	41.06
W190210100WC/U*	190.00	+0.00 / -0.13	190.00	210.00	10.00	18.00	210.00	+0.13 / -0.00	199.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	26.87
W195210090WC/U*	195.00	+0.00 / -0.13	195.00	210.00	9.00	16.00	210.00	+0.13 / -0.00	202.50	+0.13 / -0.00	9.30	+0.10 / -0.00	6.70	+0.20 / -0.20	26.87
W195210100WC/U*	195.00	+0.00 / -0.13	195.00	210.00	10.00	16.00	210.00	+0.13 / -0.00	202.50	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	61.43
W200208050WC/U*	200.00	+0.00 / -0.13	200.00	208.00	5.00	7.00	208.60	+0.13 / -0.00	203.00	+0.13 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	62.99
W200210072WC/U*	200.00	+0.00 / -0.13	200.00	210.00	7.20	12.00	210.00	+0.13 / -0.00	O/R	+0.13 / -0.00	7.50	+0.10 / -0.00	4.50	+0.20 / -0.20	47.74
W200215093WC/U	200.00	+0.00 / -0.13	200.00	215.00	9.30	12.30	215.00	+0.13 / -0.00	207.40	+0.13 / -0.00	9.60	+0.10 / -0.00	2.70	+0.20 / -0.20	56.76
W200215100WC/U	200.00	+0.00 / -0.13	200.00	215.00	10.00	16.00	215.00	+0.13 / -0.00	207.40	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	56.76
W200220100WC/U	200.00	+0.00 / -0.13	200.00	220.00	10.00	18.00	220.00	+0.13 / -0.00	210.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	28.20
W205220093WC/U*	205.00	+0.00 / -0.13	205.00	220.00	9.30	14.00	220.00	+0.13 / -0.00	215.00	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	67.47
W210225100WC/U	210.00	+0.00 / -0.13	210.00	225.00	10.00	16.00	225.00	+0.13 / -0.00	217.60	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	33.82
W210226087WC/U*	210.00	+0.00 / -0.13	210.00	226.00	8.70	12.00	226.00	+0.13 / -0.00	221.00	+0.13 / -0.00	9.00	+0.10 / -0.00	3.00	+0.20 / -0.20	68.15
W210230100WC/U	210.00	+0.00 / -0.13	210.00	230.00	10.00	18.00	230.00	+0.13 / -0.00	220.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	69.23
W212224070WC/U*	212.00	+0.00 / -0.13	212.00	224.00	7.00	12.00	224.00	+0.13 / -0.00	219.00	+0.13 / -0.00	7.20	+0.10 / -0.00	4.80	+0.20 / -0.20	33.82
W212227070WC/U*	212.00	+0.00 / -0.13	212.00	227.00	7.00	12.00	227.40	+0.13 / -0.00	O/R	+0.13 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	67.23
W212232120WC/U*	212.00	+0.00 / -0.13	212.00	232.00	12.00	18.00	232.00	+0.13 / -0.00	225.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	75.64
W215237100WC/U*	215.00	+0.00 / -0.13	215.00	237.00	10.00	18.00	237.00	+0.13 / -0.00	225.40	+0.13 / -0.00	10.30	+0.10 / -0.00	7.70	+0.20 / -0.20	29.25
W220235100WC/U*	220.00	+0.00 / -0.13	220.00	235.00	10.00	18.00	235.00	+0.13 / -0.00	227.60	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	38.40
W220240100WC/U*	220.00	+0.00 / -0.13	220.00	240.00	10.00	16.00	240.00	+0.13 / -0.00	227.60	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	46.11
W220240120WC/U*	220.00	+0.00 / -0.13	220.00	240.00	12.00	18.00	240.00	+0.13 / -0.00	233.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	87.20
W225240092WC/U*	225.00	+0.00 / -0.13	225.00	240.00	9.20	14.00	240.00	+0.13 / -0.00	235.00	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	89.63
W225245100WC/U*	225.00	+0.00 / -0.13	225.00	245.00	10.00	18.00	245.00	+0.13 / -0.00	235.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	91.17
W230238050WC/U*	230.00	+0.00 / -0.13	230.00	238.00	5.00	7.00	238.60	+0.13 / -0.00	233.00	+0.13 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	91.33
W230245100WC/U*	230.00	+0.00 / -0.13	230.00	245.00	10.00	16.00	245.00	+0.13 / -0.00	240.00	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	91.00
W230246072WC/U*	230.00	+0.00 / -0.13	230.00	246.00	7.20	12.00	246.00	+0.13 / -0.00	240.70	+0.13 / -0.00	7.50	+0.10 / -0.00	4.50	+0.20 / -0.20	92.20
W230250100WC/U*	230.00	+0.00 / -0.13	230.00	250.00	10.00	18.00	250.00	+0.13 / -0.00	240.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	47.26

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

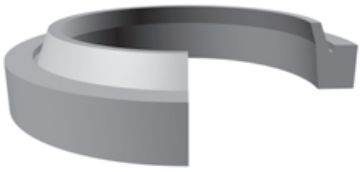
WC/U SERIES - AU 90A

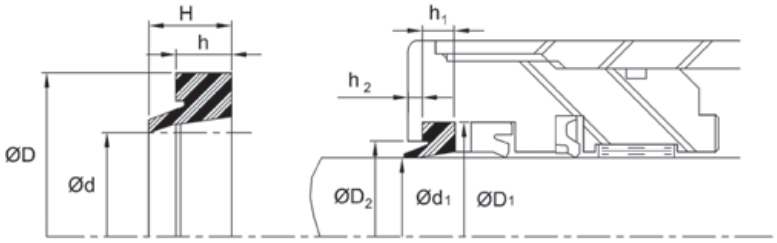
Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W235255100WC/U*	235.00	+0.00 / -0.13	235.00	255.00	10.00	18.00	255.00	+0.13 / -0.00	245.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	94.84
W240255100WC/U*	240.00	+0.00 / -0.13	240.00	255.00	10.00	16.00	255.20	+0.13 / -0.00	248.00	+0.13 / -0.00	10.30	+0.10 / -0.00	5.70	+0.20 / -0.20	44.30
W240260092WC/U*	240.00	+0.00 / -0.13	240.00	260.00	9.20	12.20	260.00	+0.13 / -0.00	O/R	+0.13 / -0.00	9.50	+0.10 / -0.00	2.50	+0.20 / -0.20	98.89
W240260100WC/U*	240.00	+0.00 / -0.13	240.00	260.00	10.00	18.00	260.00	+0.13 / -0.00	250.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	96.83
W240260120WC/U*	240.00	+0.00 / -0.13	240.00	260.00	12.00	18.00	260.00	+0.13 / -0.00	253.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	97.53
W245265120WC/U*	245.00	+0.00 / -0.13	245.00	265.00	12.00	18.00	265.00	+0.13 / -0.00	258.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	97.80
W250265100WC/U	250.00	+0.00 / -0.13	250.00	265.00	10.00	16.00	265.20	+0.13 / -0.00	258.00	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	81.89
W250270100WC/U	250.00	+0.00 / -0.13	250.00	270.00	10.00	18.00	270.00	+0.13 / -0.00	260.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	97.80
W250270120WC/U*	250.00	+0.00 / -0.13	250.00	270.00	12.00	18.00	270.00	+0.13 / -0.00	263.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	97.88
W255270092WC/U*	255.00	+0.00 / -0.13	255.00	270.00	9.20	12.20	270.00	+0.13 / -0.00	265.00	+0.13 / -0.00	9.50	+0.10 / -0.00	2.50	+0.20 / -0.20	89.69
W257267053WC/U*	257.00	+0.00 / -0.13	257.00	267.00	5.30	7.00	267.60	+0.13 / -0.00	264.00	+0.13 / -0.00	5.50	+0.10 / -0.00	1.50	+0.20 / -0.20	78.49
W260275092WC/U*	260.00	+0.00 / -0.13	260.00	275.00	9.20	14.00	275.00	+0.13 / -0.00	270.00	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	34.68
W260280100WC/U*	260.00	+0.00 / -0.13	260.00	280.00	10.00	18.00	280.00	+0.13 / -0.00	270.50	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	112.83
W265280100WC/U*	265.00	+0.00 / -0.13	265.00	280.00	10.00	16.00	280.00	+0.13 / -0.00	272.60	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	114.78
W265285100WC/U*	265.00	+0.00 / -0.13	265.00	285.00	10.00	15.00	285.00	+0.13 / -0.00	275.00	+0.13 / -0.00	10.20	+0.10 / -0.00	4.80	+0.20 / -0.20	116.19
W270278050WC/U*	270.00	+0.00 / -0.13	270.00	278.00	5.00	7.00	278.60	+0.13 / -0.00	273.00	+0.13 / -0.00	5.30	+0.10 / -0.00	1.70	+0.20 / -0.20	117.40
W270285100WC/U*	270.00	+0.00 / -0.13	270.00	285.00	10.00	16.00	285.50	+0.13 / -0.00	278.00	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	74.02
W270286072WC/U*	270.00	+0.00 / -0.13	270.00	286.00	7.20	12.00	286.00	+0.13 / -0.00	280.70	+0.13 / -0.00	7.50	+0.10 / -0.00	4.50	+0.20 / -0.20	111.61
W270290100WC/U*	270.00	+0.00 / -0.13	270.00	290.00	10.00	16.00	290.00	+0.13 / -0.00	280.00	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	349.93
W280295092WC/U*	280.00	+0.00 / -0.13	280.00	295.00	9.20	14.00	295.00	+0.13 / -0.00	290.00	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	102.60
W280300100WC/U*	280.00	+0.00 / -0.13	280.00	300.00	10.00	18.00	300.00	+0.13 / -0.00	290.00	+0.13 / -0.00	10.30	+0.10 / -0.00	7.70	+0.20 / -0.20	49.45
W285300092WC/U*	285.00	+0.00 / -0.13	285.00	300.00	9.20	14.00	300.00	+0.13 / -0.00	295.00	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	132.07
W285305120WC/U*	285.00	+0.00 / -0.13	285.00	305.00	12.00	18.00	305.00	+0.13 / -0.00	298.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	134.53
W288308100WC/U*	288.00	+0.00 / -0.13	288.00	308.00	10.00	15.00	308.00	+0.13 / -0.00	301.50	+0.13 / -0.00	10.20	+0.10 / -0.00	4.80	+0.20 / -0.20	139.50
W290302070WC/U*	290.00	+0.00 / -0.13	290.00	302.00	7.00	12.00	302.00	+0.13 / -0.00	O/R	+0.13 / -0.00	7.30	+0.10 / -0.00	4.70	+0.20 / -0.20	182.93
W290302100WC/U*	290.00	+0.00 / -0.13	290.00	302.00	10.00	16.00	302.00	+0.13 / -0.00	O/R	+0.13 / -0.00	10.30	+0.10 / -0.00	5.70	+0.20 / -0.20	186.24
W290310120WC/U*	290.00	+0.00 / -0.13	290.00	310.00	12.00	18.00	310.00	+0.13 / -0.00	303.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	140.93
W295315120WC/U*	295.00	+0.00 / -0.13	295.00	315.00	12.00	18.00	315.00	+0.13 / -0.00	308.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	145.63
W300316073WC/U*	300.00	+0.00 / -0.13	300.00	316.00	7.30	12.00	316.00	+0.13 / -0.00	310.70	+0.13 / -0.00	7.50	+0.10 / -0.00	4.50	+0.20 / -0.20	143.29
W300320120WC/U*	300.00	+0.00 / -0.13	300.00	320.00	12.00	18.00	320.00	+0.13 / -0.00	313.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	152.45
W305325120WC/U*	305.00	+0.00 / -0.13	305.00	325.00	12.00	18.00	325.00	+0.13 / -0.00	318.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	152.45
W320340100WC/U*	320.00	+0.00 / -0.13	320.00	340.00	10.00	18.00	340.00	+0.13 / -0.00	330.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	186.46
W330346072WC/U*	330.00	+0.00 / -0.13	330.00	346.00	7.20	12.00	346.00	+0.13 / -0.00	340.70	+0.13 / -0.00	7.50	+0.10 / -0.00	4.50	+0.20 / -0.20	165.90
W335355100W/CU*	335.00	+0.00 / -0.13	335.00	355.00	10.00	18.00	355.00	+0.13 / -0.00	345.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	176.04
W340360100WC/U*	340.00	+0.00 / -0.13	340.00	360.00	10.00	18.00	360.00	+0.13 / -0.00	350.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	191.96
W345369100WC/U*	345.00	+0.00 / -0.13	345.00	369.00	10.00	16.00	369.00	+0.13 / -0.00	O/R	+0.13 / -0.00	10.20	+0.10 / -0.00	5.80	+0.20 / -0.20	193.09
W350370100WC/U*	350.00	+0.00 / -0.13	350.00	370.00	10.00	18.00	370.00	+0.13 / -0.00	360.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	194.08
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	176.02
W360380100WC/U*	360.00	+0.00 / -0.13	360.00	380.00	10.00	18.00	380.00	+0.13 / -0.00	370.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	199.85
W370390100WC/U*	370.00	+0.00 / -0.13	370.00	390.00	10.00	18.00	390.00	+0.13 / -0.00	380.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	200.75
W370390120WC/U*	370.00	+0.00 / -0.13	370.00	390.00	12.00	18.00	390.00	+0.13 / -0.00	383.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	112.56
W380395090WC/U*	380.00	+0.00 / -0.13	380.00	395.00	9.20	16.00	395.00	+0.13 / -0.00	388.11	+0.13 / -0.00	9.50	+0.10 / -0.00	4.50	+0.20 / -0.20	408.41
W380400100WC/U*	380.00	+0.00 / -0.13	380.00	400.00	10.00	18.00	400.00	+0.13 / -0.00	390.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	48.30
W380400120WC/U*	380.00	+0.00 / -0.13	380.00	400.00	12.00	18.00	400.00	+0.13 / -0.00	393.50	+0.13 / -0.00	12.50	+0.10 / -0.00	5.50	+0.20 / -0.20	203.66
W400420100WC/U*	400.00	+0.00 / -0.13	400.00	420.00	10.00	18.00	420.00	+0.13 / -0.00	410.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	208.92
W455475100WC/U*	455.00	+0.00 / -0.13	455.00	475.00	10.00	18.00	475.00	+0.13 / -0.00	465.00	+0.13 / -0.00	10.20	+0.10 / -0.00	7.80	+0.20 / -0.20	225.03

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

WF - Rod Wipers

Polyurethane AU 94A





Temperature: -22/212F [-30/100C] **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		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	4.27
W011019045WF*	11.20	+0,00 / -0,04	11.20	19.20	4.50	6.00	19.20	+0,08 / -0,00	15.20	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.08
W012020045WF*	12.50	+0,00 / -0,04	12.50	20.50	4.50	6.00	20.50	+0,08 / -0,00	16.50	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.27
W014019020WF*	14.00	+0,00 / -0,04	14.00	19.00	2.00	3.20	19.00	+0,08 / -0,00	17.00	+0,10 / -0,10	3.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.26
W014022045WF*	14.00	+0,00 / -0,04	14.00	22.00	4.50	6.00	22.00	+0,08 / -0,00	18.00	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.27
W015023045WF*	15.00	+0,00 / -0,04	15.00	23.00	4.50	6.00	23.00	+0,08 / -0,00	19.00	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.27
W016024045WF*	16.00	+0,00 / -0,04	16.00	24.00	4.50	6.00	24.00	+0,08 / -0,00	20.30	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.27
W018026045WF*	18.00	+0,00 / -0,04	18.00	26.00	4.50	6.00	26.00	+0,08 / -0,00	22.30	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.27
W020028045WF*	20.00	+0,00 / -0,04	20.00	28.00	4.50	6.00	28.00	+0,08 / -0,00	24.00	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.27
W022030045WF*	22.40	+0,00 / -0,04	22.40	30.40	4.50	6.00	30.40	+0,10 / -0,00	26.40	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.08
W025033045WF*	25.00	+0,00 / -0,04	25.00	33.00	4.50	6.00	33.00	+0,10 / -0,00	29.00	+0,10 / -0,10	5.00	+0,30 / -0,00	2.00	+0.20 / -0.20	4.27
W030038050WF	30.00	+0,00 / -0,04	30.00	38.00	5.00	6.50	38.00	+0,10 / -0,00	34.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.40
W035043050WF	35.00	+0,00 / -0,04	35.00	43.00	5.00	6.50	43.00	+0,10 / -0,00	39.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.40
W035043050WF-1*	35.50	+0,00 / -0,04	35.50	43.50	5.00	6.50	43.50	+0,10 / -0,00	39.50	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	8.86
W035043060WF*	35.00	+0,00 / -0,04	35.00	43.00	6.00	8.00	43.00	+0,10 / -0,00	39.00	+0,10 / -0,10	7.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.40
W040048050WF*	40.00	+0,00 / -0,05	40.00	48.00	5.00	6.50	48.00	+0,10 / -0,00	44.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	5.62
W045053050WF*	45.00	+0,00 / -0,05	45.00	53.00	5.00	6.50	53.00	+0,12 / -0,00	49.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	6.16
W045053050WF-1*	45.50	+0,00 / -0,05	45.50	53.50	5.00	6.50	53.50	+0,12 / -0,00	49.50	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	17.72
W045055060WF	45.00	+0,00 / -0,05	45.00	55.00	6.00	8.00	55.00	+0,12 / -0,00	50.00	+0,10 / -0,10	7.00	+0,30 / -0,00	2.00	+0.20 / -0.20	6.52
W050058050WF*	50.00	+0,00 / -0,05	50.00	58.00	5.00	6.50	58.00	+0,12 / -0,00	54.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	8.81
W050060060WF	50.00	+0,00 / -0,05	50.00	60.00	6.00	8.00	60.00	+0,12 / -0,00	55.00	+0,10 / -0,10	7.00	+0,30 / -0,00	2.00	+0.20 / -0.20	6.79
W055063050WF*	55.00	+0,00 / -0,05	55.00	63.00	5.00	6.50	63.00	+0,12 / -0,00	59.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	9.35
W055065060WF	55.00	+0,00 / -0,05	55.00	65.00	6.00	8.00	65.00	+0,12 / -0,00	60.00	+0,10 / -0,10	7.00	+0,30 / -0,00	2.00	+0.20 / -0.20	6.86
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	6.86
W060068050WF*	60.00	+0,00 / -0,05	60.00	68.00	5.00	6.50	68.00	+0,12 / -0,00	64.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.78
W060073070WF*	60.00	+0,00 / -0,05	60.00	73.00	7.00	9.50	73.00	+0,12 / -0,00	67.00	+0,10 / -0,10	8.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.26
W063071050WF*	63.00	+0,00 / -0,05	63.00	71.00	5.00	6.50	71.00	+0,12 / -0,00	67.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.78
W065073050WF*	65.00	+0,00 / -0,06	65.00	73.00	5.00	6.50	73.00	+0,12 / -0,00	69.00	+0,10 / -0,10	6.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.78
W065078070WF	65.00	+0,00 / -0,06	65.00	78.00	7.00	9.50	78.00	+0,12 / -0,00	72.00	+0,10 / -0,10	8.00	+0,30 / -0,00	2.00	+0.20 / -0.20	7.60
W070080060WF*	70.00	+0,00 / -0,06	70.00	80.00	6.00	8.00	80.00	+0,14 / -0,00	75.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	9.67
W070083070WF	70.00	+0,00 / -0,06	70.00	83.00	7.00	9.50	83.00	+0,14 / -0,00	77.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	10.15
W075085060WF*	75.00	+0,00 / -0,06	75.00	85.00	6.00	8.00	85.00	+0,14 / -0,00	80.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	10.43
W075088070WF	75.00	+0,00 / -0,06	75.00	88.00	7.00	9.50	88.00	+0,14 / -0,00	82.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	10.55
W080090060WF*	80.00	+0,00 / -0,09	80.00	90.00	6.00	8.00	90.00	+0,14 / -0,00	85.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	10.43
W080093070WF	80.00	+0,00 / -0,09	80.00	93.00	7.00	9.50	93.00	+0,14 / -0,00	87.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	11.17
W085095060WF*	85.00	+0,00 / -0,09	85.00	95.00	6.00	8.00	95.00	+0,14 / -0,00	90.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	10.64
W085098070WF*	85.00	+0,00 / -0,09	85.00	98.00	7.00	9.50	98.00	+0,14 / -0,00	92.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	11.80

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

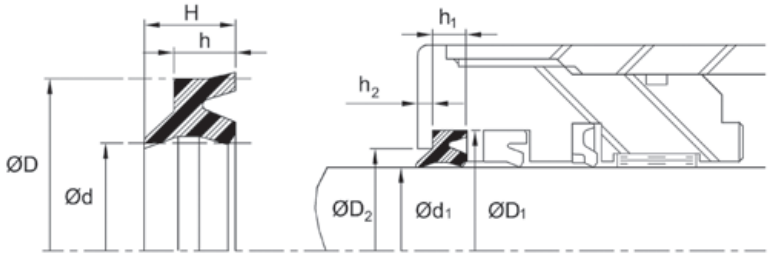
WF SERIES - AU 94A

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W090100060WF*	90.00	+0,00 / -0,09	90.00	100.00	6.00	8.00	100.00	+0,14 / -0,00	95.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	11.40
W090103070WF*	90.00	+0,00 / -0,09	90.00	103.00	7.00	9.50	103.00	+0,14 / -0,00	97.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	13.21
W090105065WF	90.00	+0,00 / -0,09	90.00	105.00	6.50	8.50	105.00	+0,14 / -0,00	98.00	+0,10 / -0,10	7.50	+0,30 / -0,00	3.00	+0.20 / -0.20	17.98
W095105060WF*	95.00	+0,00 / -0,09	95.00	105.00	6.00	8.00	105.00	+0,14 / -0,00	100.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	16.80
W095108070WF*	95.00	+0,00 / -0,09	95.00	108.00	7.00	9.50	108.00	+0,14 / -0,00	102.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	16.80
W100110060WF*	100.00	+0,00 / -0,09	100.00	110.00	6.00	8.00	110.00	+0,14 / -0,00	105.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	16.80
W105115060WF*	105.00	+0,00 / -0,13	105.00	115.00	6.00	8.00	115.00	+0,14 / -0,00	110.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	16.80
W105118070WF*	105.00	+0,00 / -0,13	105.00	118.00	7.00	9.50	118.00	+0,14 / -0,00	112.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	16.80
W110120060WF*	110.00	+0,00 / -0,13	110.00	120.00	6.00	8.00	120.00	+0,16 / -0,00	115.00	+0,10 / -0,10	7.00	+0,30 / -0,00	3.00	+0.20 / -0.20	16.80
W110123070WF*	110.00	+0,00 / -0,13	110.00	123.00	7.00	9.50	123.00	+0,16 / -0,00	117.00	+0,10 / -0,10	8.00	+0,30 / -0,00	3.00	+0.20 / -0.20	17.92
W120130060WF*	120.00	+0,00 / -0,13	120.00	130.00	6.00	8.00	130.00	+0,16 / -0,00	125.00	+0,10 / -0,10	7.00	+0,30 / -0,00	4.00	+0.20 / -0.20	20.21
W120133070WF*	120.00	+0,00 / -0,13	120.00	133.00	7.00	9.50	133.00	+0,16 / -0,00	127.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	20.21
W125138070WF*	125.00	+0,00 / -0,13	125.00	138.00	7.00	9.50	138.00	+0,16 / -0,00	132.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	20.21
W130143070WF*	130.00	+0,00 / -0,13	130.00	143.00	7.00	9.50	143.00	+0,16 / -0,00	137.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	21.72
W140153070WF*	140.00	+0,00 / -0,13	140.00	153.00	7.00	9.50	153.00	+0,16 / -0,00	147.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	27.12
W140155065WF*	140.00	+0,00 / -0,13	140.00	155.00	6.50	10.30	155.00	+0,16 / -0,00	148.00	+0,10 / -0,10	7.50	+0,30 / -0,00	4.00	+0.20 / -0.20	27.12
W145158070WF*	145.00	+0,00 / -0,13	145.00	158.00	7.00	9.50	158.00	+0,16 / -0,00	152.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	27.56
W150163070WF*	150.00	+0,00 / -0,13	150.00	163.00	7.00	9.50	163.00	+0,16 / -0,00	157.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	27.56
W160173070WF*	160.00	+0,00 / -0,13	160.00	173.00	7.00	9.50	173.00	+0,16 / -0,00	167.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	30.96
W170183070WF	170.00	+0,00 / -0,13	170.00	183.00	7.00	9.50	183.00	+0,18 / -0,00	177.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	36.36
W175188070WF*	175.00	+0,00 / -0,13	175.00	188.00	7.00	9.50	188.00	+0,18 / -0,00	182.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	39.33
W180193070WF*	180.00	+0,00 / -0,13	180.00	193.00	7.00	9.50	193.00	+0,18 / -0,00	187.00	+0,10 / -0,10	8.00	+0,30 / -0,00	4.00	+0.20 / -0.20	48.74
W190203070WF*	190.00	+0,00 / -0,13	190.00	203.00	7.00	9.50	203.00	+0,18 / -0,00	197.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	51.06
W200213070WF*	200.00	+0,00 / -0,13	200.00	213.00	7.00	9.50	213.00	+0,18 / -0,00	207.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	50.84
W210223070WF*	210.00	+0,00 / -0,13	210.00	223.00	7.00	9.50	223.00	+0,18 / -0,00	217.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	51.71
W220233070WF*	220.00	+0,00 / -0,13	220.00	233.00	7.00	9.50	233.00	+0,18 / -0,00	227.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	255.62
W225238070WF*	225.00	+0,00 / -0,13	225.00	238.00	7.00	9.50	238.00	+0,18 / -0,00	232.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	54.03
W230243070WF*	230.00	+0,00 / -0,13	230.00	243.00	7.00	9.50	243.00	+0,18 / -0,00	237.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	54.03
W240253070WF*	240.00	+0,00 / -0,13	240.00	253.00	7.00	9.50	253.00	+0,21 / -0,00	247.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	63.81
W250263070WF*	250.00	+0,00 / -0,13	250.00	263.00	7.00	9.50	263.00	+0,21 / -0,00	257.00	+0,10 / -0,10	8.00	+0,30 / -0,00	5.00	+0.20 / -0.20	79.80
W260275090WF*	260.00	+0,00 / -0,13	260.00	275.00	9.00	12.00	275.00	+0,21 / -0,00	268.00	+0,10 / -0,10	10.00	+0,30 / -0,00	5.00	+0.20 / -0.20	85.10
W270285090WF*	270.00	+0,00 / -0,13	270.00	285.00	9.00	12.00	285.00	+0,21 / -0,00	278.00	+0,10 / -0,10	10.00	+0,30 / -0,00	5.00	+0.20 / -0.20	126.60
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	132.97
W290305090WF*	290.00	+0,00 / -0,13	290.00	305.00	9.00	12.00	305.00	+0,21 / -0,00	298.00	+0,10 / -0,10	10.00	+0,30 / -0,00	5.00	+0.20 / -0.20	132.97
W300315090WF*	300.00	+0,00 / -0,13	300.00	315.00	9.00	12.00	315.00	+0,21 / -0,00	308.00	+0,10 / -0,10	10.00	+0,30 / -0,00	5.00	+0.20 / -0.20	154.26

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

WG - Rod Wipers

Polyurethane AU 92A



Temperature: -22/212F [-30/100C] **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		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	3.51
W014020036WG	14.00	+0.00 / -0.04	14.00	20.00	3.60	6.00	20.60	+0.00 / -0.20	16.50	+0.10 / -0.10	4.00	+0.20 / -0.00	2.00	+0.20 / -0.20	3.54
W014022045WG	14.00	+0.00 / -0.04	14.00	22.00	4.50	6.00	22.60	+0.00 / -0.20	18.30	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	2.33
W016022036WG	16.00	+0.00 / -0.04	16.00	22.00	3.60	6.00	22.60	+0.00 / -0.20	18.50	+0.10 / -0.10	4.00	+0.20 / -0.00	2.00	+0.20 / -0.20	3.65
W016024045WG	16.00	+0.00 / -0.04	16.00	24.00	4.50	6.00	24.60	+0.00 / -0.20	20.30	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	2.47
W018024036WG	18.00	+0.00 / -0.04	18.00	24.00	3.60	6.00	24.60	+0.00 / -0.20	20.50	+0.10 / -0.10	4.00	+0.20 / -0.00	2.00	+0.20 / -0.20	4.19
W018026045WG	18.00	+0.00 / -0.04	18.00	26.00	4.50	6.00	26.60	+0.00 / -0.20	22.30	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	2.47
W020025045WG	20.00	+0.00 / -0.04	20.00	25.00	4.50	6.00	25.60	+0.00 / -0.20	25.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	3.90
W020026036WG	20.00	+0.00 / -0.04	20.00	26.00	3.60	6.00	26.60	+0.00 / -0.20	22.50	+0.10 / -0.10	4.00	+0.20 / -0.00	2.00	+0.20 / -0.20	3.95
W020028045WG	20.00	+0.00 / -0.04	20.00	28.00	4.50	6.00	28.60	+0.00 / -0.20	24.30	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	2.59
W022028036WG	22.00	+0.00 / -0.04	22.00	28.00	3.60	6.00	28.60	+0.00 / -0.20	24.50	+0.10 / -0.10	4.00	+0.20 / -0.00	2.00	+0.20 / -0.20	3.64
W022030045WG	22.00	+0.00 / -0.04	22.00	30.00	4.50	6.00	30.60	+0.00 / -0.20	26.30	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	4.16
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	2.67
W024032048WG*	24.00	+0.00 / -0.04	24.00	32.00	4.80	6.00	32.60	+0.00 / -0.20	27.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	4.32
W025031036WG	25.00	+0.00 / -0.04	25.00	31.00	3.60	4.80	31.60	+0.00 / -0.20	27.50	+0.10 / -0.10	4.00	+0.20 / -0.00	1.80	+0.20 / -0.20	4.43
W025033045WG	25.00	+0.00 / -0.04	25.00	33.00	4.50	6.00	33.60	+0.00 / -0.20	29.30	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	2.81
W025033048WG	25.00	+0.00 / -0.04	25.00	33.00	4.80	6.00	33.60	+0.00 / -0.20	28.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	4.54
W028036045WG	28.00	+0.00 / -0.04	28.00	36.00	4.50	6.00	36.60	+0.00 / -0.20	31.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	2.81
W030038045WG	30.00	+0.00 / -0.04	30.00	38.00	4.50	6.50	38.60	+0.00 / -0.20	34.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	4.76
W030038050WG	30.00	+0.00 / -0.04	30.00	38.00	5.00	6.50	38.60	+0.00 / -0.20	33.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	4.05
W031039050WG	31.50	+0.00 / -0.04	31.50	39.50	5.00	6.50	40.10	+0.00 / -0.20	35.50	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	3.07
W032040045WG	32.00	+0.00 / -0.04	32.00	40.00	4.50	6.50	40.60	+0.00 / -0.20	35.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	4.76
W032040050WG	32.00	+0.00 / -0.04	32.00	40.00	5.00	6.50	40.60	+0.00 / -0.20	36.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	4.75
W035043050WG	35.00	+0.00 / -0.04	35.00	43.00	5.00	6.50	43.60	+0.00 / -0.20	39.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	3.45
W036044045WG	36.00	+0.00 / -0.04	36.00	44.00	4.50	6.50	44.60	+0.00 / -0.20	39.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	7.18
W036044050WG	36.00	+0.00 / -0.04	36.00	44.00	5.00	6.50	44.60	+0.00 / -0.20	40.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	5.26
W040048045WG	40.00	+0.00 / -0.04	40.00	48.00	4.50	6.50	48.60	+0.00 / -0.20	43.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	4.90
W040048050WG	40.00	+0.00 / -0.05	40.00	48.00	5.00	6.50	48.60	+0.00 / -0.20	44.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	3.89
W040050050WG	40.00	+0.00 / -0.05	40.00	50.00	5.00	6.50	50.60	+0.00 / -0.20	46.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	8.19
W045053045WG	45.00	+0.00 / -0.05	45.00	53.00	4.50	6.50	53.60	+0.00 / -0.20	48.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	5.58
W045053050WG	45.00	+0.00 / -0.05	45.00	53.00	5.00	6.50	53.60	+0.00 / -0.20	49.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	4.26
W050058045WG	50.00	+0.00 / -0.05	50.00	58.00	4.50	6.50	58.60	+0.00 / -0.20	53.00	+0.10 / -0.10	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	7.73
W050058050WG	50.00	+0.00 / -0.05	50.00	58.00	5.00	6.50	58.60	+0.00 / -0.20	54.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	4.65
W050060050WG	50.00	+0.00 / -0.05	50.00	60.00	5.00	6.50	60.50	+0.00 / -0.20	56.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	4.92
W055063050WG	55.00	+0.00 / -0.05	55.00	63.00	5.00	6.50	63.60	+0.00 / -0.20	59.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	5.06
W056064050WG	56.00	+0.00 / -0.05	56.00	64.00	5.00	6.50	64.60	+0.00 / -0.20	60.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	5.06
W056066050WG	56.00	+0.00 / -0.05	56.00	66.00	5.00	6.50	66.60	+0.00 / -0.20	59.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	11.67

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

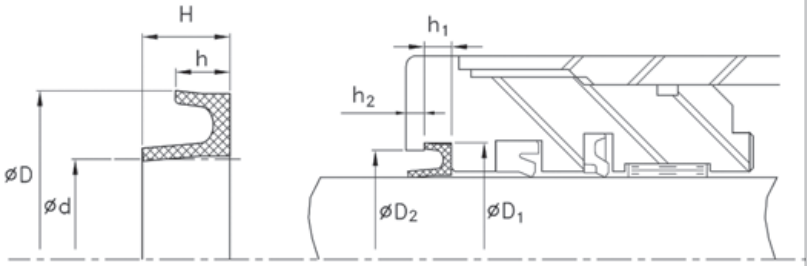
WG SERIES - AU 92A

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W060068050WG	60.00	+0.00 / -0.05	60.00	68.00	5.00	6.50	68.60	+0.00 / -0.20	64.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	5.40
W060070050WG	60.00	+0.00 / -0.05	60.00	70.00	5.00	7.00	70.60	+0.00 / -0.20	63.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	6.63
W063071050WG	63.00	+0.00 / -0.05	63.00	71.00	5.00	6.50	71.60	+0.00 / -0.20	67.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	5.40
W063073050WG	63.00	+0.00 / -0.06	63.00	73.00	5.00	7.00	73.60	+0.00 / -0.20	66.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	9.60
W065073050WG	65.00	+0.00 / -0.06	65.00	73.00	5.00	6.50	73.60	+0.00 / -0.20	69.00	+0.10 / -0.10	5.50	+0.20 / -0.00	2.00	+0.20 / -0.20	5.40
W065075050WG	65.00	+0.00 / -0.06	65.00	75.00	5.00	7.00	75.60	+0.00 / -0.20	68.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	5.40
W070078050WG	70.00	+0.00 / -0.06	70.00	78.00	5.00	8.00	78.60	+0.00 / -0.20	73.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	5.54
W070080050WG	70.00	+0.00 / -0.06	70.00	80.00	5.00	7.00	80.60	+0.00 / -0.20	73.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	7.82
W070080060WG	70.00	+0.00 / -0.06	70.00	80.00	6.00	8.00	80.60	+0.00 / -0.20	75.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	6.74
W071081060WG	71.00	+0.00 / -0.06	71.00	81.00	6.00	8.00	81.60	+0.00 / -0.20	76.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	6.74
W075083048WG*	75.00	+0.00 / -0.09	75.00	83.00	4.80	8.00	83.60	+0.00 / -0.20	78.00	+0.10 / -0.10	5.30	+0.20 / -0.00	2.00	+0.20 / -0.20	20.53
W075085060WG	75.00	+0.00 / -0.09	75.00	85.00	6.00	8.00	85.60	+0.00 / -0.20	80.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	7.12
W080090053WG	80.00	+0.00 / -0.09	80.00	90.00	5.30	8.00	90.60	+0.00 / -0.20	83.00	+0.10 / -0.10	6.00	+0.20 / -0.00	2.00	+0.20 / -0.20	7.37
W080090060WG	80.00	+0.00 / -0.09	80.00	90.00	6.00	8.00	90.60	+0.00 / -0.20	85.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	7.12
W085095060WG	85.00	+0.00 / -0.09	85.00	95.00	6.00	8.00	95.60	+0.00 / -0.20	90.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	7.38
W085097070WG*	85.00	+0.00 / -0.09	85.00	97.00	7.00	9.00	97.20	+0.00 / -0.20	91.00	+0.10 / -0.10	7.10	+0.20 / -0.00	2.00	+0.20 / -0.20	6.71
W090100053WG*	90.00	+0.00 / -0.09	90.00	100.00	5.30	8.00	100.60	+0.00 / -0.20	93.00	+0.10 / -0.10	6.00	+0.20 / -0.00	2.00	+0.20 / -0.20	6.85
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	8.00
W090102070WG*	90.00	+0.00 / -0.09	90.00	102.00	7.00	9.00	102.20	+0.00 / -0.20	96.00	+0.10 / -0.10	7.10	+0.20 / -0.00	2.00	+0.20 / -0.20	8.00
W095105060WG	95.00	+0.00 / -0.09	95.00	105.00	6.00	8.00	105.60	+0.00 / -0.20	100.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	6.85
W100110060WG	100.00	+0.00 / -0.09	100.00	110.00	6.00	8.00	110.60	+0.00 / -0.20	105.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	11.59
W105115060WG	105.00	+0.00 / -0.09	105.00	115.00	6.00	8.00	115.60	+0.00 / -0.20	110.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	16.98
W110120060WG	110.00	+0.00 / -0.09	110.00	120.00	6.00	8.00	120.60	+0.00 / -0.20	115.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	13.84
W110122071WG*	110.00	+0.00 / -0.09	110.00	122.00	7.10	8.00	122.60	+0.00 / -0.20	116.00	+0.10 / -0.10	7.50	+0.20 / -0.00	3.00	+0.20 / -0.20	23.95
W110125075WG	110.00	+0.00 / -0.09	110.00	125.00	7.50	8.00	125.60	+0.00 / -0.20	114.00	+0.10 / -0.10	8.50	+0.20 / -0.00	3.00	+0.20 / -0.20	15.66
W112122060WG*	112.00	+0.00 / -0.13	112.00	122.00	6.00	8.00	122.60	+0.00 / -0.20	117.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	12.86
W115125060WG	115.00	+0.00 / -0.13	115.00	125.00	6.00	8.00	125.60	+0.00 / -0.20	120.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	20.38
W120130060WG	120.00	+0.00 / -0.13	120.00	130.00	6.00	8.00	130.60	+0.00 / -0.20	125.00	+0.10 / -0.10	7.00	+0.20 / -0.00	3.00	+0.20 / -0.20	21.58
W125138070WG	125.00	+0.00 / -0.13	125.00	138.00	7.00	9.50	138.60	+0.00 / -0.20	132.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	13.94
W125140075WG*	125.00	+0.00 / -0.13	125.00	140.00	7.50	9.50	140.60	+0.00 / -0.20	129.00	+0.10 / -0.10	8.50	+0.20 / -0.00	3.00	+0.20 / -0.20	35.53
W130143070WG*	130.00	+0.00 / -0.13	130.00	143.00	7.00	9.50	143.60	+0.00 / -0.20	137.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	31.70
W140153070WG	140.00	+0.00 / -0.13	140.00	153.00	7.00	9.50	153.60	+0.00 / -0.20	147.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	15.36
W140155075WG	140.00	+0.00 / -0.13	140.00	155.00	7.50	9.50	155.60	+0.00 / -0.20	144.00	+0.10 / -0.10	8.50	+0.20 / -0.00	3.00	+0.20 / -0.20	48.65
W140155082WG*	140.00	+0.00 / -0.13	140.00	155.00	8.20	10.20	155.60	+0.00 / -0.20	144.00	+0.10 / -0.10	8.50	+0.20 / -0.00	3.00	+0.20 / -0.20	48.65
W155168070WG	155.00	+0.00 / -0.13	155.00	168.00	7.00	9.50	168.60	+0.00 / -0.20	162.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	44.15
W160173070WG	160.00	+0.00 / -0.13	160.00	173.00	7.00	9.50	173.60	+0.00 / -0.20	167.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	45.21
W160174070WG*	160.00	+0.00 / -0.13	160.00	174.00	7.00	9.50	174.60	+0.00 / -0.20	167.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	17.17
W165178070WG*	165.00	+0.00 / -0.13	165.00	178.00	7.00	9.50	178.60	+0.00 / -0.20	172.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	17.17
W170183070WG	170.00	+0.00 / -0.13	170.00	183.00	7.00	9.50	183.60	+0.00 / -0.20	177.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	50.87
W175188070WG	175.00	+0.00 / -0.13	175.00	188.00	7.00	9.50	188.60	+0.00 / -0.20	182.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	38.11
W180193070WG	180.00	+0.00 / -0.13	180.00	193.00	7.00	9.50	193.60	+0.00 / -0.20	187.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	56.68
W190203070WG*	190.00	+0.00 / -0.13	190.00	203.00	7.00	9.50	203.60	+0.00 / -0.20	197.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	62.41
W200213070WG	200.00	+0.00 / -0.13	200.00	213.00	7.00	9.50	213.60	+0.00 / -0.20	207.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	69.06
W220233070WG	220.00	+0.00 / -0.13	220.00	233.00	7.00	9.50	233.60	+0.00 / -0.20	227.00	+0.10 / -0.10	8.00	+0.20 / -0.00	3.00	+0.20 / -0.20	81.65
W250265090WG*	250.00	+0.00 / -0.13	250.00	265.00	9.00	11.50	265.60	+0.00 / -0.20	258.00	+0.10 / -0.10	10.00	+0.20 / -0.00	3.00	+0.20 / -0.20	O/R
W300315090WG*	300.00	+0.00 / -0.13	300.00	315.00	9.00	11.50	315.60	+0.00 / -0.20	308.00	+0.10 / -0.10	10.00	+0.20 / -0.00	3.00	+0.20 / -0.20	O/R
W355375100WG*	355.00	+0.00 / -0.13	355.00	375.00	10.00	14.00	375.60	+0.00 / -0.20	365.00	+0.10 / -0.10	11.00	+0.20 / -0.00	3.00	+0.20 / -0.20	O/R

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

WH - Rod Wipers

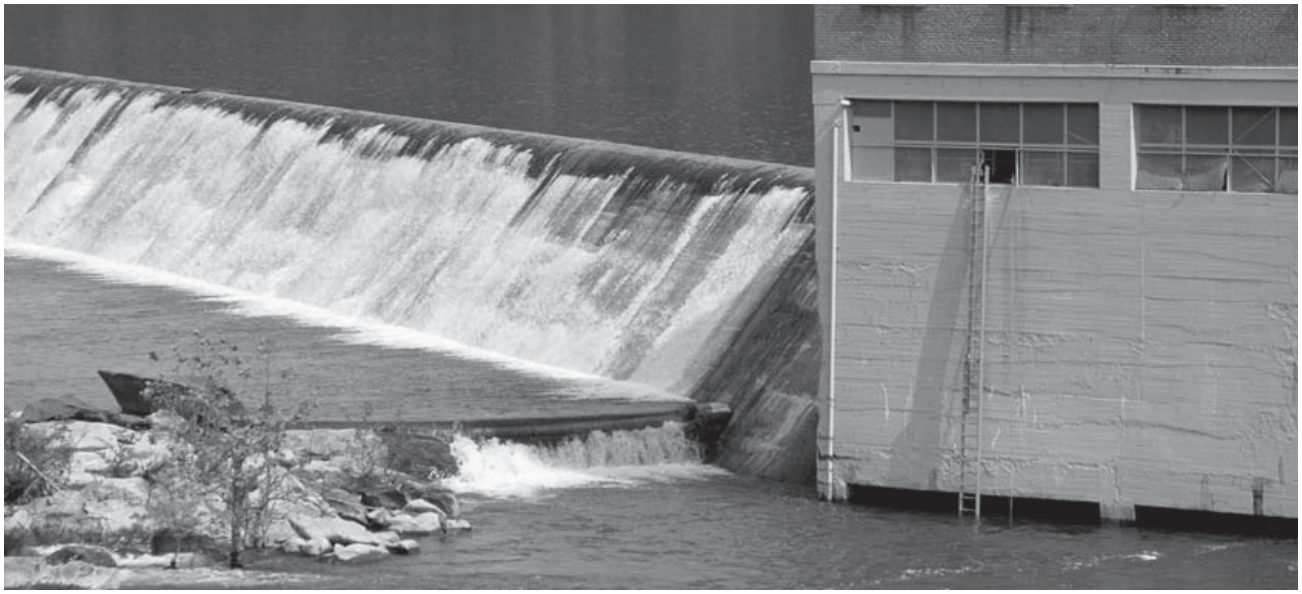
Nylon



Temperature: -40/212F [-40/100C] **Pressure:**

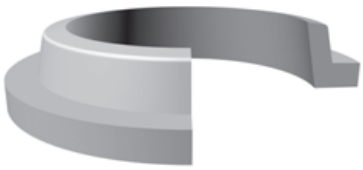
Ref. Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	h	d1	Tol.	D1	Tol.	h1	Tol.	
W016026045WH*	16.00	+0.00 / -0.05	16.00	26.00	4.00	24.50	+0.05 / -0.00	26.00	+0.05 / -0.00	4.50	+0.13 / -0.00	4.35
W020033060WH*	20.00	+0.00 / -0.05	20.00	33.00	5.60	31.50	+0.05 / -0.00	33.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.35
W025038060WH	25.00	+0.00 / -0.05	25.00	38.00	5.60	36.50	+0.05 / -0.00	38.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.35
W028041060WH*	28.00	+0.00 / -0.05	28.00	41.00	5.60	39.50	+0.05 / -0.00	41.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.35
W030043060WH*	30.00	+0.00 / -0.05	30.00	43.00	5.60	41.50	+0.05 / -0.00	43.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.72
W032045060WH*	32.00	+0.00 / -0.05	32.00	45.00	5.60	43.50	+0.05 / -0.00	45.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.35
W036049060WH*	36.00	+0.00 / -0.05	36.00	49.00	5.60	47.50	+0.05 / -0.00	49.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.83
W040053060WH	40.00	+0.00 / -0.05	40.00	53.00	5.60	51.50	+0.05 / -0.00	53.00	+0.05 / -0.00	6.00	+0.13 / -0.00	6.62
W045058060WH*	45.00	+0.00 / -0.05	45.00	58.00	5.60	56.50	+0.05 / -0.00	58.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.83
W050063060WH*	50.00	+0.00 / -0.05	50.00	63.00	5.60	61.50	+0.05 / -0.00	63.00	+0.05 / -0.00	6.00	+0.13 / -0.00	5.70
W055068060WH*	55.00	+0.00 / -0.05	55.00	68.00	5.60	66.50	+0.05 / -0.00	68.00	+0.05 / -0.00	6.00	+0.13 / -0.00	8.48
W056069060WH*	56.00	+0.00 / -0.05	56.00	69.00	5.60	67.50	+0.05 / -0.00	69.00	+0.05 / -0.00	6.00	+0.13 / -0.00	6.41
W060073060WH	60.00	+0.00 / -0.05	60.00	73.00	5.60	71.50	+0.05 / -0.00	73.00	+0.05 / -0.00	6.00	+0.13 / -0.00	6.52
W063076060WH*	63.00	+0.00 / -0.05	63.00	76.00	5.60	74.50	+0.05 / -0.00	76.00	+0.05 / -0.00	6.00	+0.13 / -0.00	8.11
W070083060WH	70.00	+0.00 / -0.05	70.00	83.00	5.60	81.50	+0.05 / -0.00	83.00	+0.05 / -0.00	6.00	+0.13 / -0.00	4.97
W075088060WH*	75.00	+0.00 / -0.05	75.00	88.00	5.60	86.50	+0.05 / -0.00	88.00	+0.05 / -0.00	6.00	+0.13 / -0.00	9.70
W080093060WH*	80.00	+0.00 / -0.05	80.00	93.00	5.60	91.50	+0.05 / -0.00	93.00	+0.05 / -0.00	6.00	+0.13 / -0.00	8.85
W090103060WH	90.00	+0.00 / -0.05	90.00	103.00	5.60	101.50	+0.05 / -0.00	103.00	+0.05 / -0.00	6.00	+0.13 / -0.00	9.68
W100114060WH*	100.00	+0.00 / -0.05	100.00	114.00	5.60	111.50	+0.05 / -0.00	114.00	+0.05 / -0.00	6.00	+0.13 / -0.00	10.53

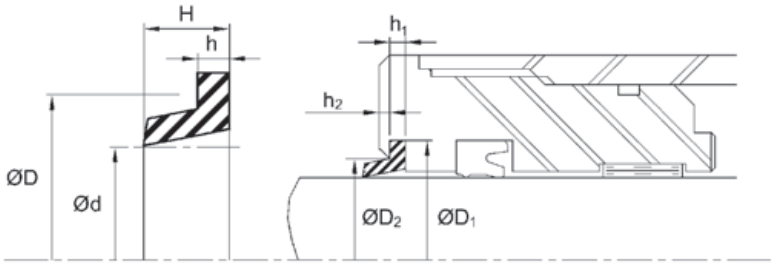
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



WJ - Rod Wipers

Nitrile NBR 90A





Temperature: -22/212F [-30/100C] **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	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	O/R
W010016012WJ*	10.00	+0.00 / -0.04	10.00	16.35	1.20	3.50	16.00	+0.11 / -0.00	12.10	+0.11 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	5.59
W011017012WJ*	11.00	+0.00 / -0.04	11.00	17.35	1.20	3.50	17.00	+0.11 / -0.00	13.10	+0.11 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	O/R
W012018012WJ*	12.00	+0.00 / -0.04	12.00	18.35	1.20	3.50	18.00	+0.11 / -0.00	14.10	+0.11 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	5.95
W013019012WJ*	13.00	+0.00 / -0.04	13.00	19.35	1.20	3.50	19.00	+0.13 / -0.00	15.10	+0.11 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	O/R
W014020012WJ*	14.00	+0.00 / -0.04	14.00	20.35	1.20	3.50	20.00	+0.13 / -0.00	16.10	+0.11 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	O/R
W015021012WJ*	15.00	+0.00 / -0.04	15.00	21.35	1.20	3.50	21.00	+0.13 / -0.00	17.10	+0.11 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	6.18
W016022012WJ*	16.00	+0.00 / -0.04	16.00	22.35	1.20	3.50	22.00	+0.13 / -0.00	18.10	+0.13 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	6.24
W017023012WJ*	17.00	+0.00 / -0.04	17.00	23.35	1.20	3.50	23.00	+0.13 / -0.00	19.10	+0.13 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	O/R
W018024012WJ	18.00	+0.00 / -0.04	18.00	24.35	1.20	3.50	24.00	+0.13 / -0.00	20.10	+0.13 / -0.00	1.30	+0.05 / -0.00	2.50	+0.20 / -0.20	6.38
W020028015WJ*	20.00	+0.00 / -0.04	20.00	28.00	1.50	4.50	27.50	+0.13 / -0.00	22.90	+0.13 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	6.49
W023031015WJ*	23.00	+0.00 / -0.04	23.00	31.00	1.50	4.50	30.50	+0.16 / -0.00	25.90	+0.13 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	O/R
W024032015WJ*	24.00	+0.00 / -0.04	24.00	32.00	1.50	4.50	31.50	+0.16 / -0.00	26.90	+0.13 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	O/R
W025033015WJ*	25.00	+0.00 / -0.04	25.00	33.00	1.50	4.50	32.50	+0.16 / -0.00	27.90	+0.13 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	5.73
W027035015WJ*	27.00	+0.00 / -0.04	27.00	35.00	1.50	4.50	34.50	+0.16 / -0.00	29.90	+0.13 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	O/R
W028036015WJ*	28.00	+0.00 / -0.04	28.00	36.00	1.50	4.50	35.50	+0.16 / -0.00	30.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	O/R
W030038015WJ	30.00	+0.00 / -0.04	30.00	38.00	1.50	4.50	37.50	+0.16 / -0.00	32.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	7.85
W032040015WJ*	32.00	+0.00 / -0.04	32.00	40.00	1.50	4.50	39.50	+0.16 / -0.00	34.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	10.06
W033041015WJ	33.00	+0.00 / -0.04	33.00	41.00	1.50	4.50	40.50	+0.16 / -0.00	35.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	7.94
W035043015WJ	35.00	+0.00 / -0.04	35.00	43.00	1.50	4.50	42.50	+0.16 / -0.00	37.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	8.93
W036044015WJ*	36.00	+0.00 / -0.04	36.00	44.00	1.50	4.50	43.50	+0.16 / -0.00	38.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	O/R
W037045015WJ*	37.00	+0.00 / -0.04	37.00	45.00	1.50	4.50	44.50	+0.16 / -0.00	39.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	9.96
W040048015WJ	40.00	+0.00 / -0.05	40.00	48.00	1.50	4.50	47.50	+0.16 / -0.00	42.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	9.98
W043051015WJ*	43.00	+0.00 / -0.05	43.00	51.00	1.50	4.50	50.50	+0.19 / -0.00	45.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	11.88
W045053015WJ	45.00	+0.00 / -0.05	45.00	53.00	1.50	4.50	52.50	+0.19 / -0.00	47.90	+0.16 / -0.00	1.60	+0.08 / -0.00	3.00	+0.20 / -0.20	11.92
W046056020WJ*	46.00	+0.00 / -0.05	46.00	56.80	2.05	6.00	56.00	+0.19 / -0.00	50.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	O/R
W048058020WJ*	48.00	+0.00 / -0.05	48.00	58.80	2.05	6.00	58.00	+0.19 / -0.00	52.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	O/R
W050060020WJ	50.00	+0.00 / -0.05	50.00	60.80	2.05	6.00	60.00	+0.19 / -0.00	54.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	10.03
W055065020WJ	55.00	+0.00 / -0.05	55.00	65.80	2.05	6.00	65.00	+0.19 / -0.00	59.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	21.25
W056066020WJ*	56.00	+0.00 / -0.05	56.00	66.80	2.05	6.00	66.00	+0.19 / -0.00	60.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	O/R
W057067020WJ*	57.00	+0.00 / -0.05	57.00	67.80	2.05	6.00	67.00	+0.19 / -0.00	61.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	O/R
W060070020WJ*	60.00	+0.00 / -0.05	60.00	70.80	2.05	6.00	70.00	+0.19 / -0.00	64.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	13.30
W063073020WJ	63.00	+0.00 / -0.05	63.00	73.80	2.05	6.00	73.00	+0.19 / -0.00	67.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	12.85
W065075020WJ	65.00	+0.00 / -0.06	65.00	75.80	2.05	6.00	75.00	+0.19 / -0.00	69.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	15.75
W070080020WJ*	70.00	+0.00 / -0.06	70.00	80.80	2.05	6.00	80.00	+0.19 / -0.00	74.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	19.01
W072082020WJ*	72.00	+0.00 / -0.06	72.00	82.80	2.05	6.00	82.00	+0.22 / -0.00	76.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	O/R
W075085020WJ*	75.00	+0.00 / -0.06	75.00	85.80	2.05	6.00	85.00	+0.22 / -0.00	79.60	+0.19 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	17.93

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

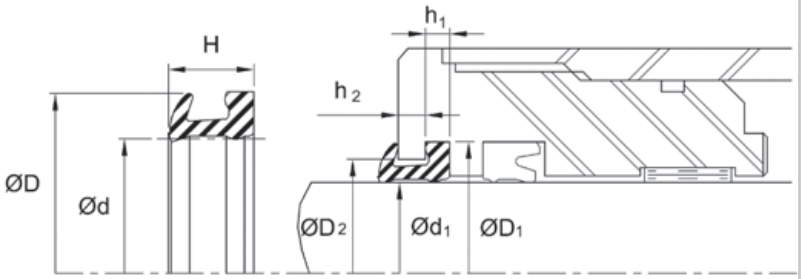
WJ SERIES - NBR 90A

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W078088020WJ*	78.00	+0.00 / -0.09	78.00	88.80	2.05	6.00	88.00	+0.22 / -0.00	82.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	18.16
W080090020WJ	80.00	+0.00 / -0.09	80.00	90.80	2.05	6.00	90.00	+0.22 / -0.00	84.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	16.37
W085095020WJ*	85.00	+0.00 / -0.09	85.00	95.80	2.05	6.00	95.00	+0.22 / -0.00	89.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/
W086096020WJ*	86.00	+0.00 / -0.09	86.00	96.80	2.05	6.00	96.00	+0.22 / -0.00	90.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W090100020WJ	90.00	+0.00 / -0.09	90.00	100.80	2.05	6.00	100.00	+0.22 / -0.00	94.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	24.66
W095105020WJ*	95.00	+0.00 / -0.09	95.00	105.80	2.05	6.00	105.00	+0.22 / -0.00	99.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	19.90
W099109020WJ*	99.00	+0.00 / -0.09	99.00	109.80	2.05	6.00	109.00	+0.22 / -0.00	103.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W100110020WJ	100.00	+0.00 / -0.09	100.00	110.80	2.05	6.00	110.00	+0.22 / -0.00	104.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	20.68
W105115020WJ*	105.00	+0.00 / -0.13	105.00	115.80	2.05	6.00	115.00	+0.22 / -0.00	109.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W108118020WJ*	108.00	+0.00 / -0.13	108.00	118.80	2.05	6.00	118.00	+0.22 / -0.00	112.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W110120020WJ*	110.00	+0.00 / -0.13	110.00	120.80	2.05	6.00	120.00	+0.22 / -0.00	114.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W113123020WJ*	113.00	+0.00 / -0.13	113.00	123.80	2.05	6.00	123.00	+0.25 / -0.00	117.60	+0.22 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
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	0/R
W116126020WJ*	116.00	+0.00 / -0.13	116.00	126.80	2.05	6.00	126.00	+0.25 / -0.00	120.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W120130020WJ*	120.00	+0.00 / -0.13	120.00	130.80	2.05	6.00	130.00	+0.25 / -0.00	124.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	26.64
W125135020WJ*	125.00	+0.00 / -0.13	125.00	135.80	2.05	6.00	135.00	+0.25 / -0.00	129.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	26.76
W127137020WJ*	127.00	+0.00 / -0.13	127.00	137.80	2.05	6.00	137.00	+0.25 / -0.00	131.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	28.13
W130140020WJ*	130.00	+0.00 / -0.13	130.00	140.80	2.05	6.00	140.00	+0.25 / -0.00	134.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W133143020WJ*	133.00	+0.00 / -0.13	133.00	143.80	2.05	6.00	143.00	+0.25 / -0.00	137.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W135145020WJ*	135.00	+0.00 / -0.13	135.00	145.80	2.05	6.00	145.00	+0.25 / -0.00	139.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W140150020WJ*	140.00	+0.00 / -0.13	140.00	150.80	2.05	6.00	150.00	+0.25 / -0.00	144.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	28.62
W142152020WJ*	142.00	+0.00 / -0.13	142.00	152.80	2.05	6.00	152.00	+0.25 / -0.00	146.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W145155020WJ*	145.00	+0.00 / -0.13	145.00	155.80	2.05	6.00	155.00	+0.25 / -0.00	149.60	+0.25 / -0.00	2.15	+0.08 / -0.00	4.00	+0.20 / -0.20	0/R
W150166030WJ*	150.00	+0.00 / -0.13	150.00	166.10	3.05	9.00	165.00	+0.25 / -0.00	157.00	+0.25 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W152168030WJ*	152.00	+0.00 / -0.13	152.00	168.10	3.05	9.00	167.00	+0.25 / -0.00	159.00	+0.25 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W155171030WJ*	155.00	+0.00 / -0.13	155.00	171.10	3.05	9.00	170.00	+0.25 / -0.00	162.00	+0.25 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W160176030WJ*	160.00	+0.00 / -0.13	160.00	176.10	3.05	9.00	175.00	+0.25 / -0.00	167.00	+0.25 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W165181030WJ*	165.00	+0.00 / -0.13	165.00	181.10	3.05	9.00	180.00	+0.25 / -0.00	172.00	+0.25 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W170186030WJ*	170.00	+0.00 / -0.13	170.00	186.10	3.05	9.00	185.00	+0.29 / -0.00	177.00	+0.25 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W172188030WJ*	172.00	+0.00 / -0.13	172.00	188.10	3.05	9.00	187.00	+0.29 / -0.00	179.00	+0.25 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W175191030WJ*	175.00	+0.00 / -0.13	175.00	191.10	3.05	9.00	190.00	+0.29 / -0.00	182.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W180196030WJ*	180.00	+0.00 / -0.13	180.00	196.10	3.05	9.00	195.00	+0.29 / -0.00	187.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W185201030WJ*	185.00	+0.00 / -0.13	185.00	201.10	3.05	9.00	200.00	+0.29 / -0.00	192.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W190206030WJ*	190.00	+0.00 / -0.13	190.00	206.10	3.05	9.00	205.00	+0.29 / -0.00	197.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W195211030WJ*	195.00	+0.00 / -0.13	195.00	211.10	3.05	9.00	210.00	+0.29 / -0.00	202.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W200216030WJ*	200.00	+0.00 / -0.13	200.00	216.10	3.05	9.00	215.00	+0.29 / -0.00	207.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W210226030WJ*	210.00	+0.00 / -0.13	210.00	226.10	3.05	9.00	225.00	+0.29 / -0.00	217.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W220236030WJ*	220.00	+0.00 / -0.13	220.00	236.10	3.05	9.00	235.00	+0.29 / -0.00	227.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W230246030WJ*	230.00	+0.00 / -0.13	230.00	246.10	3.05	9.00	245.00	+0.29 / -0.00	237.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W240256030WJ*	240.00	+0.00 / -0.13	240.00	256.10	3.05	9.00	255.00	+0.32 / -0.00	247.00	+0.29 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W250266030WJ*	250.00	+0.00 / -0.13	250.00	266.10	3.05	9.00	265.00	+0.32 / -0.00	257.00	+0.32 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W270286030WJ*	270.00	+0.00 / -0.13	270.00	286.10	3.05	9.00	285.00	+0.32 / -0.00	277.00	+0.32 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W280296030WJ*	280.00	+0.00 / -0.13	280.00	296.10	3.05	9.00	295.00	+0.32 / -0.00	287.00	+0.32 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W285301030WJ*	285.00	+0.00 / -0.13	285.00	301.10	3.05	9.00	301.00	+0.32 / -0.00	292.00	+0.32 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W370386030WJ*	370.00	+0.00 / -0.13	370.00	386.10	3.05	9.00	385.00	+0.36 / -0.00	377.00	+0.36 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W475491030WJ*	475.00	+0.00 / -0.13	475.00	491.10	3.05	9.00	490.00	+0.40 / -0.00	482.00	+0.40 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R
W660676030WJ*	660.00	+0.00 / -0.13	660.00	676.10	3.05	9.00	675.00	+0.40 / -0.00	667.00	+0.40 / -0.00	3.15	+0.10 / -0.00	6.00	+0.20 / -0.20	0/R

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

WM - Rod Wipers

Hythane



Temperature: -4/212F [-20/100C] **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W032040065WM*	32.00	+0.00 / -0.04	32.00	40.00		8.00	40.00	+0.16 / -0.00	37.50	+0.16 / -0.00	5.00	+0.15 / -0.00	1.50	+0.01 / -0.00	16.37
W035045078WM*	35.00	+0.00 / -0.04	35.00	45.00		10.00	45.00	+0.16 / -0.00	42.00	+0.16 / -0.00	6.30	+0.15 / -0.00	1.50	+0.01 / -0.00	17.07
W036044065WM*	36.00	+0.00 / -0.04	36.00	44.00		8.00	44.00	+0.16 / -0.00	41.50	+0.16 / -0.00	5.00	+0.15 / -0.00	1.50	+0.01 / -0.00	19.64
W038046068WM*	38.00	+0.00 / -0.04	38.00	46.00		8.00	46.00	+0.16 / -0.00	43.00	+0.16 / -0.00	5.30	+0.15 / -0.00	1.50	+0.01 / -0.00	17.07
W040048065WM*	40.00	+0.00 / -0.04	40.00	48.00		8.00	48.00	+0.16 / -0.00	45.00	+0.16 / -0.00	5.00	+0.15 / -0.00	1.50	+0.01 / -0.00	22.77
W045053065WM*	45.00	+0.00 / -0.05	45.00	53.00		8.00	53.00	+0.19 / -0.00	50.50	+0.19 / -0.00	5.00	+0.15 / -0.00	1.50	+0.01 / -0.00	17.89
W050058065WM*	50.00	+0.00 / -0.05	50.00	58.00		8.00	58.00	+0.19 / -0.00	55.00	+0.19 / -0.00	5.00	+0.15 / -0.00	1.50	+0.01 / -0.00	23.10
W056066078WM*	56.00	+0.00 / -0.05	56.00	66.00		10.00	66.00	+0.19 / -0.00	63.00	+0.19 / -0.00	6.30	+0.15 / -0.00	1.50	+0.01 / -0.00	27.83
W060070078WM*	60.00	+0.00 / -0.05	60.00	70.00		10.00	70.00	+0.19 / -0.00	67.00	+0.19 / -0.00	6.30	+0.15 / -0.00	1.50	+0.01 / -0.00	26.08
W060072100WM*	60.00	+0.00 / -0.05	60.00	72.00		10.00	72.00	+0.19 / -0.00	67.00	+0.19 / -0.00	4.10	+0.15 / -0.00	2.50	+0.01 / -0.00	31.10
W063073078WM*	63.00	+0.00 / -0.05	63.00	73.00		10.00	73.00	+0.19 / -0.00	70.00	+0.19 / -0.00	6.30	+0.15 / -0.00	1.50	+0.01 / -0.00	26.39
W070082100WM*	70.00	+0.00 / -0.06	70.00	82.60		12.00	82.60	+0.22 / -0.00	78.40	+0.22 / -0.00	8.00	+0.15 / -0.00	2.00	+0.01 / -0.00	32.36
W070085120WM*	70.00	+0.00 / -0.06	70.00	85.00		12.00	85.00	+0.22 / -0.00	78.00	+0.22 / -0.00	5.10	+0.15 / -0.00	3.00	+0.01 / -0.00	39.29
W075090120WM*	75.00	+0.00 / -0.06	75.00	90.00		12.00	90.00	+0.22 / -0.00	83.00	+0.22 / -0.00	5.10	+0.15 / -0.00	3.00	+0.01 / -0.00	40.27
W080090078WM*	80.00	+0.00 / -0.09	80.00	90.00		10.00	90.00	+0.22 / -0.00	87.00	+0.22 / -0.00	6.30	+0.15 / -0.00	1.50	+0.01 / -0.00	40.93
W080095120WM*	80.00	+0.00 / -0.09	80.00	95.00		12.00	95.00	+0.22 / -0.00	88.00	+0.22 / -0.00	5.10	+0.15 / -0.00	3.00	+0.01 / -0.00	42.56
W085098120WM*	85.00	+0.00 / -0.09	85.00	97.60		12.00	97.60	+0.22 / -0.00	93.40	+0.22 / -0.00	8.00	+0.15 / -0.00	2.00	+0.01 / -0.00	35.31
W085100100WM*	85.00	+0.00 / -0.09	85.00	100.00		10.00	100.00	+0.22 / -0.00	93.00	+0.22 / -0.00	5.10	+0.15 / -0.00	3.00	+0.01 / -0.00	45.84
W090102101WM*	90.00	+0.00 / -0.09	90.00	102.20		12.40	102.20	+0.22 / -0.00	96.00	+0.22 / -0.00	7.10	+0.15 / -0.00	2.80	+0.01 / -0.00	49.11
W090103100WM*	90.00	+0.00 / -0.09	90.00	102.60		12.00	102.60	+0.22 / -0.00	98.40	+0.22 / -0.00	8.00	+0.15 / -0.00	2.00	+0.01 / -0.00	35.64
W090105120WM*	90.00	+0.00 / -0.09	90.00	105.00		10.00	105.00	+0.22 / -0.00	98.00	+0.22 / -0.00	5.10	+0.15 / -0.00	3.00	+0.01 / -0.00	52.38
W100112101WM*	100.00	+0.00 / -0.09	100.00	112.20		12.40	112.20	+0.22 / -0.00	106.00	+0.22 / -0.00	7.10	+0.15 / -0.00	2.80	+0.01 / -0.00	47.47
W100114095WM*	100.00	+0.00 / -0.09	100.00	114.00		12.00	114.00	+0.22 / -0.00	109.80	+0.22 / -0.00	8.00	+0.15 / -0.00	1.50	+0.01 / -0.00	35.98
W100115115WM*	100.00	+0.00 / -0.09	100.00	115.00		14.00	115.00	+0.22 / -0.00	108.40	+0.22 / -0.00	9.50	+0.15 / -0.00	2.00	+0.01 / -0.00	52.38
W100115120WM*	100.00	+0.00 / -0.09	100.00	115.00		12.00	115.00	+0.22 / -0.00	108.00	+0.22 / -0.00	5.10	+0.15 / -0.00	3.00	+0.01 / -0.00	49.11
W105120120WM*	105.00	+0.00 / -0.13	105.00	120.00		14.00	120.00	+0.22 / -0.00	115.00	+0.22 / -0.00	9.50	+0.15 / -0.00	2.50	+0.01 / -0.00	42.92
W110125115WM*	110.00	+0.00 / -0.13	110.00	125.00		14.00	125.00	+0.25 / -0.00	120.00	+0.25 / -0.00	9.50	+0.15 / -0.00	2.00	+0.01 / -0.00	54.02
W120135115WM*	120.00	+0.00 / -0.13	120.00	135.00		14.00	135.00	+0.25 / -0.00	130.00	+0.25 / -0.00	9.50	+0.15 / -0.00	2.00	+0.01 / -0.00	53.28
W125137106WM*	125.00	+0.00 / -0.13	125.00	137.20		10.60	137.20	+0.25 / -0.00	131.00	+0.25 / -0.00	7.60	+0.15 / -0.00	2.80	+0.01 / -0.00	63.84
W125140120WM*	125.00	+0.00 / -0.13	125.00	140.00		12.00	140.00	+0.25 / -0.00	133.00	+0.25 / -0.00	5.10	+0.15 / -0.00	3.00	+0.01 / -0.00	65.48
W125140115WM*	125.00	+0.00 / -0.13	125.00	140.00		14.00	140.00	+0.25 / -0.00	135.00	+0.25 / -0.00	9.50	+0.15 / -0.00	2.00	+0.01 / -0.00	64.66
W130145118WM*	130.00	+0.00 / -0.13	130.00	145.00		14.00	145.00	+0.25 / -0.00	140.00	+0.25 / -0.00	9.50	+0.15 / -0.00	2.25	+0.01 / -0.00	48.55
W140152106WM*	140.00	+0.00 / -0.13	140.00	152.20		12.90	152.20	+0.25 / -0.00	146.00	+0.25 / -0.00	7.60	+0.15 / -0.00	2.80	+0.01 / -0.00	68.75
W140155115WM*	140.00	+0.00 / -0.13	140.00	155.00		14.00	155.00	+0.25 / -0.00	150.00	+0.25 / -0.00	9.50	+0.15 / -0.00	2.00	+0.01 / -0.00	50.19
W145160118WM*	145.00	+0.00 / -0.13	145.00	160.00		14.00	160.00	+0.25 / -0.00	155.00	+0.25 / -0.00	9.50	+0.15 / -0.00	2.25	+0.01 / -0.00	54.48
W150169140WM*	150.00	+0.00 / -0.13	150.00	169.00		14.00	169.00	+0.25 / -0.00	159.00	+0.25 / -0.00	6.10	+0.15 / -0.00	4.00	+0.01 / -0.00	72.03
W155170118WM*	155.00	+0.00 / -0.13	155.00	170.00		12.00	170.00	+0.25 / -0.00	165.00	+0.25 / -0.00	9.50	+0.15 / -0.00	2.25	+0.01 / -0.00	55.76

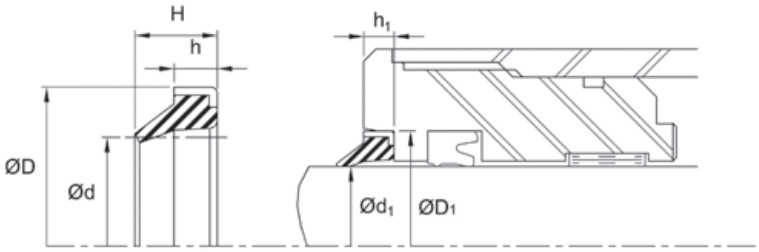
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WM SERIES - HYTHANE

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	
W170189140WM*	170.00	+0.00 / -0.13	170.00	189.00	14.00		189.00	+0.29 / -0.00	179.00	+0.29 / -0.00	6.10	+0.15 / -0.00	4.00	+0.01 / -0.00	76.94
W175190118WM*	175.00	+0.00 / -0.13	175.00	190.00	14.00		190.00	+0.29 / -0.00	185.00	+0.29 / -0.00	9.50	+0.15 / -0.00	2.25	+0.01 / -0.00	63.04
W180195118WM*	180.00	+0.00 / -0.13	180.00	195.00	14.00		195.00	+0.29 / -0.00	190.00	+0.29 / -0.00	9.50	+0.15 / -0.00	2.25	+0.01 / -0.00	64.71
W190209140WM*	190.00	+0.00 / -0.13	190.00	209.00	14.00		209.00	+0.29 / -0.00	199.00	+0.29 / -0.00	6.10	+0.15 / -0.00	4.00	+0.01 / -0.00	81.85
W200223200WM*	200.00	+0.00 / -0.13	200.00	223.00	20.00		223.00	+0.29 / -0.00	211.00	+0.29 / -0.00	8.30	+0.15 / -0.00	4.80	+0.01 / -0.00	83.49
W215230115WM*	215.00	+0.00 / -0.13	215.00	230.00	14.00		230.00	+0.29 / -0.00	225.00	+0.29 / -0.00	9.50	+0.15 / -0.00	2.00	+0.01 / -0.00	48.34
W230250190WM*	230.00	+0.00 / -0.13	230.00	250.00	19.00		250.00	+0.32 / -0.01	240.00	+0.32 / -0.01	10.20	+0.15 / -0.00	3.80	+0.01 / -0.00	88.40
W230250200WM*	230.00	+0.00 / -0.13	230.00	250.00	20.00		250.00	+0.29 / -0.00	238.00	+0.29 / -0.00	8.30	+0.15 / -0.00	4.80	+0.01 / -0.00	230.51
W250270190WM*	250.00	+0.00 / -0.13	250.00	270.00	19.00		270.00	+0.32 / -0.01	260.00	+0.32 / -0.01	10.20	+0.15 / -0.00	3.80	+0.01 / -0.00	93.31
W320340190WM*	320.00	+0.00 / -0.13	320.00	340.00	19.00		340.00	+0.32 / -0.01	330.00	+0.32 / -0.01	10.20	+0.15 / -0.00	3.80	+0.01 / -0.00	147.33
W350370190WM*	350.00	+0.00 / -0.13	350.00	370.00	19.00		370.00	+0.32 / -0.01	360.00	+0.32 / -0.01	10.20	+0.15 / -0.00	3.80	+0.01 / -0.00	196.44

WN - Rod Wipers

Nitrile/Steel



Temperature: -40/212F [-40/100C] **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	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			1.89
W006013030WN*	6.00	+0.00 / -0.04	6.00	13.00	3.00	4.50	13.00	+0.02 / -0.00			3.00	+0.50 / -0.00			1.89
W006013040WN*	6.00	+0.00 / -0.04	6.00	13.00	4.00	6.00	13.00	+0.02 / -0.00			4.00	+0.50 / -0.00			1.89
W006014050WN*	6.00	+0.00 / -0.04	6.00	14.00	5.00	8.00	14.00	+0.02 / -0.00			5.00	+0.50 / -0.00			1.89
W008014033WN*	8.00	+0.00 / -0.04	8.00	14.00	3.30	5.00	14.00	+0.02 / -0.00			3.30	+0.50 / -0.00			1.89
W008015030WN	8.00	+0.00 / -0.04	8.00	15.00	3.00	4.50	15.00	+0.02 / -0.00			3.00	+0.50 / -0.00			1.89
W008018060WN*	8.00	+0.00 / -0.04	8.00	18.00	6.00	9.00	18.00	+0.02 / -0.00			6.00	+0.50 / -0.00			1.89
W008022030WN*	8.00	+0.00 / -0.04	8.00	22.00	3.00	4.50	22.00	+0.03 / -0.00			3.00	+0.50 / -0.00			1.94
W010016030WN	10.00	+0.00 / -0.04	10.00	16.00	3.00	4.50	16.00	+0.02 / -0.00			3.00	+0.50 / -0.00			1.69
W010016050WN*	10.00	+0.00 / -0.04	10.00	16.00	5.00	8.00	16.00	+0.02 / -0.00			5.00	+0.50 / -0.00			1.89
W010018050WN	10.00	+0.00 / -0.04	10.00	18.00	5.00	8.00	18.00	+0.02 / -0.00			5.00	+0.50 / -0.00			1.89
W010020050WN	10.00	+0.00 / -0.04	10.00	20.00	5.00	8.00	20.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.89
W012018035WN	12.00	+0.00 / -0.04	12.00	18.00	3.50	5.00	18.00	+0.02 / -0.00			3.50	+0.50 / -0.00			2.42
W012018040WN	12.00	+0.00 / -0.04	12.00	18.00	4.00	6.00	18.00	+0.02 / -0.00			4.00	+0.50 / -0.00			1.89
W012018050WN*	12.00	+0.00 / -0.04	12.00	18.00	5.00	8.00	18.00	+0.02 / -0.00			5.00	+0.50 / -0.00			1.89
W012020040WN	12.00	+0.00 / -0.04	12.00	20.00	4.00	6.00	20.00	+0.03 / -0.00			4.00	+0.50 / -0.00			1.69
W012022050WN*	12.00	+0.00 / -0.04	12.00	22.00	5.00	8.00	22.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.82
W014019030WN*	14.00	+0.00 / -0.04	14.00	19.80	3.00	4.50	19.80	+0.02 / -0.00			3.00	+0.50 / -0.00			1.89
W014020030WN	14.00	+0.00 / -0.04	14.00	20.00	3.00	4.50	20.00	+0.03 / -0.00			3.00	+0.50 / -0.00			1.89

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

WN SERIES - NBR/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W014020035WN	14.00	+0.00 / -0.04	14.00	20.00	3.50	5.00	20.00	+0.03 / -0.00			3.50	+0.50 / -0.00			1.89
W014020050WN*	14.00	+0.00 / -0.04	14.00	20.00	5.00	8.00	20.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.89
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			1.94
W014024070WN	14.00	+0.00 / -0.04	14.00	24.00	7.00	10.00	24.00	+0.03 / -0.00			7.00	+0.50 / -0.00			1.94
W014025050WN*	14.00	+0.00 / -0.04	14.00	25.00	5.00	8.00	25.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W015021035WN	15.00	+0.00 / -0.04	15.00	21.00	3.50	5.00	21.00	+0.03 / -0.00			3.50	+0.50 / -0.00			1.94
W015022030WN	15.00	+0.00 / -0.04	15.00	22.00	3.00	4.50	22.00	+0.03 / -0.00			3.00	+0.50 / -0.00			1.94
W015025050WN*	15.00	+0.00 / -0.04	15.00	25.00	5.00	8.00	25.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.69
W015025070WN	15.00	+0.00 / -0.04	15.00	25.00	7.00	10.00	25.00	+0.03 / -0.00			7.00	+0.50 / -0.00			1.94
W016022030WN	16.00	+0.00 / -0.04	16.00	22.00	3.00	4.50	22.00	+0.03 / -0.00			3.00	+0.50 / -0.00			4.94
W016022050WN	16.00	+0.00 / -0.04	16.00	22.00	5.00	8.00	22.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W016024035WN	16.00	+0.00 / -0.04	16.00	24.00	3.50	4.50	24.00	+0.03 / -0.00			3.50	+0.50 / -0.00			1.94
W016024050WN	16.00	+0.00 / -0.04	16.00	24.00	5.00	8.00	24.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W016026035WN*	16.00	+0.00 / -0.04	16.00	26.00	3.50	5.50	26.00	+0.03 / -0.00			3.50	+0.50 / -0.00			1.94
W016026050WN	16.00	+0.00 / -0.04	16.00	26.00	5.00	8.00	26.00	+0.03 / -0.00			5.00	+0.50 / -0.00			2.78
W016026070WN	16.00	+0.00 / -0.04	16.00	26.00	7.00	10.00	26.00	+0.03 / -0.00			7.00	+0.50 / -0.00			1.94
W016028050WN	16.00	+0.00 / -0.04	16.00	28.00	5.00	8.00	28.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W017022050WN	17.00	+0.00 / -0.04	17.00	22.00	5.00	8.00	22.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W018024030WN	18.00	+0.00 / -0.04	18.00	24.00	3.00	4.50	24.00	+0.03 / -0.00			3.00	+0.50 / -0.00			1.94
W018024050WN*	18.00	+0.00 / -0.04	18.00	24.00	5.00	8.00	24.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W018026050WN	18.00	+0.00 / -0.04	18.00	26.00	5.00	8.00	26.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W018026070WN*	18.00	+0.00 / -0.04	18.00	26.00	7.00	10.00	26.00	+0.03 / -0.00			7.00	+0.50 / -0.00			1.94
W018028050WN	18.00	+0.00 / -0.04	18.00	28.00	5.00	8.00	28.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W018028070WN	18.00	+0.00 / -0.04	18.00	28.00	7.00	10.00	28.00	+0.03 / -0.00			7.00	+0.50 / -0.00			3.52
W018030030WN	18.00	+0.00 / -0.04	18.00	30.00	3.00	4.50	30.00	+0.03 / -0.00			3.00	+0.50 / -0.00			1.94
W018032050WN*	18.00	+0.00 / -0.04	18.00	32.00	5.00	8.00	32.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W018035050WN*	18.00	+0.00 / -0.04	18.00	35.00	5.00	8.00	35.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W019026050WN	19.00	+0.00 / -0.04	19.00	26.00	5.00	8.00	26.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W020026035WN	20.00	+0.00 / -0.04	20.00	26.00	3.50	5.00	26.00	+0.03 / -0.00			3.50	+0.50 / -0.00			1.94
W020026050WN	20.00	+0.00 / -0.04	20.00	26.00	5.00	8.00	26.00	+0.03 / -0.00			5.00	+0.50 / -0.00			6.55
W020028035WN	20.00	+0.00 / -0.04	20.00	28.00	3.50	5.00	28.00	+0.03 / -0.00			3.50	+0.50 / -0.00			1.59
W020028050WN	20.00	+0.00 / -0.04	20.00	28.00	5.00	8.00	28.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.69
W020030040WN	20.00	+0.00 / -0.04	20.00	30.00	4.00	6.00	30.00	+0.03 / -0.00			4.00	+0.50 / -0.00			1.82
W020030050WN	20.00	+0.00 / -0.04	20.00	30.00	5.00	8.00	30.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.92
W020030070WN	20.00	+0.00 / -0.04	20.00	30.00	7.00	10.00	30.00	+0.03 / -0.00			7.00	+0.50 / -0.00			1.82
W020033050WN	20.00	+0.00 / -0.04	20.00	33.00	5.00	8.00	33.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W020035070WN	20.00	+0.00 / -0.04	20.00	35.00	7.00	10.00	35.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.23
W021028035WN*	21.00	+0.00 / -0.04	21.00	28.00	3.50	5.00	28.00	+0.03 / -0.00			3.50	+0.50 / -0.00			1.94
W022028050WN	22.00	+0.00 / -0.04	22.00	28.00	5.00	8.00	28.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.82
W022030040WN*	22.00	+0.00 / -0.04	22.00	30.00	4.00	6.00	30.00	+0.03 / -0.00			4.00	+0.50 / -0.00			1.94
W022030050WN	22.00	+0.00 / -0.04	22.00	30.00	5.00	8.00	30.00	+0.03 / -0.00			5.00	+0.50 / -0.00			1.94
W022030060WN	22.00	+0.00 / -0.04	22.00	30.00	6.00	9.00	30.00	+0.03 / -0.00			6.00	+0.50 / -0.00			1.94
W022032050WN	22.00	+0.00 / -0.04	22.00	32.00	5.00	8.00	32.00	+0.04 / -0.00			5.00	+0.50 / -0.00			1.69
W022032070WN	22.00	+0.00 / -0.04	22.00	32.00	7.00	10.00	32.00	+0.04 / -0.00			7.00	+0.50 / -0.00			1.69
W022034070WN*	22.00	+0.00 / -0.04	22.00	34.00	7.00	10.00	34.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.23
W022035050WN	22.00	+0.00 / -0.04	22.00	35.00	5.00	8.00	35.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W022035070WN*	22.00	+0.00 / -0.04	22.00	35.00	7.00	10.00	35.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.23
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			2.23

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

WN SERIES - NBR/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W024032050WN	24.00	+0.00 / -0.04	24.00	32.00	5.00	8.00	32.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W024035050WN	24.00	+0.00 / -0.04	24.00	35.00	5.00	8.00	35.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W025031050WN	25.00	+0.00 / -0.04	25.00	31.00	5.00	8.00	31.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W025032050WN	25.00	+0.00 / -0.04	25.00	32.00	5.00	8.00	32.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W025033040WN*	25.00	+0.00 / -0.04	25.00	33.00	4.00	6.00	33.00	+0.04 / -0.00			4.00	+0.50 / -0.00			1.82
W025034050WN	25.00	+0.00 / -0.04	25.00	34.00	5.00	8.00	34.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W025035050WN	25.00	+0.00 / -0.04	25.00	35.00	5.00	8.00	35.00	+0.04 / -0.00			5.00	+0.50 / -0.00			5.67
W025035070WN	25.00	+0.00 / -0.04	25.00	35.00	7.00	10.00	35.00	+0.04 / -0.00			7.00	+0.50 / -0.00			1.82
W025037070WN	25.00	+0.00 / -0.04	25.00	37.00	7.00	10.00	37.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.52
W025040070WN	25.00	+0.00 / -0.04	25.00	40.00	7.00	10.00	40.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.52
W025045070WN	25.00	+0.00 / -0.04	25.00	45.00	7.00	10.00	45.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.81
W025047070WN	25.00	+0.00 / -0.04	25.00	47.00	7.00	10.00	47.00	+0.04 / -0.00			7.00	+0.50 / -0.00			3.15
W026032050WN*	26.00	+0.00 / -0.04	26.00	32.00	5.00	8.00	32.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W026034050WN*	26.00	+0.00 / -0.04	26.00	34.00	5.00	8.00	34.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W026035070WN*	26.00	+0.00 / -0.04	26.00	35.00	7.00	10.00	35.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.23
W028035050WN	28.00	+0.00 / -0.04	28.00	35.00	5.00	8.00	35.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.23
W028036050WN	28.00	+0.00 / -0.04	28.00	36.00	5.00	8.00	36.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.52
W028038050WN	28.00	+0.00 / -0.04	28.00	38.00	5.00	8.00	38.00	+0.04 / -0.00			5.00	+0.50 / -0.00			1.92
W028038070WN	28.00	+0.00 / -0.04	28.00	38.00	7.00	10.00	38.00	+0.04 / -0.00			7.00	+0.50 / -0.00			1.69
W028040070WN	28.00	+0.00 / -0.04	28.00	40.00	7.00	10.00	40.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.52
W028042050WN*	28.00	+0.00 / -0.04	28.00	42.00	5.00	8.00	42.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.81
W028042070WN*	28.00	+0.00 / -0.04	28.00	42.00	7.00	10.00	42.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.81
W028045070WN*	28.00	+0.00 / -0.04	28.00	45.00	7.00	10.00	45.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.81
W030038050WN*	30.00	+0.00 / -0.04	30.00	38.00	5.00	8.00	38.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.52
W030040050WN	30.00	+0.00 / -0.04	30.00	40.00	5.00	8.00	40.00	+0.04 / -0.00			5.00	+0.50 / -0.00			1.82
W030040070WN	30.00	+0.00 / -0.04	30.00	40.00	7.00	10.00	40.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.07
W030042050WN	30.00	+0.00 / -0.04	30.00	42.00	5.00	8.00	42.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.81
W030045050WN	30.00	+0.00 / -0.04	30.00	45.00	5.00	8.00	45.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.81
W030045070WN	30.00	+0.00 / -0.04	30.00	45.00	7.00	10.00	45.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.81
W030047050WN	30.00	+0.00 / -0.04	30.00	47.00	5.00	8.00	47.00	+0.04 / -0.00			5.00	+0.50 / -0.00			3.15
W032040040WN	32.00	+0.00 / -0.04	32.00	40.00	4.00	6.00	40.00	+0.04 / -0.00			4.00	+0.50 / -0.00			1.92
W032042050WN	32.00	+0.00 / -0.04	32.00	42.00	5.00	8.00	42.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.30
W032042070WN	32.00	+0.00 / -0.04	32.00	42.00	7.00	10.00	42.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.30
W032045040WN	32.00	+0.00 / -0.04	32.00	45.00	4.00	6.00	45.00	+0.04 / -0.00			4.00	+0.50 / -0.00			2.30
W032045050WN	32.00	+0.00 / -0.04	32.00	45.00	5.00	8.00	45.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.81
W032045070WN	32.00	+0.00 / -0.04	32.00	45.00	7.00	10.00	45.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.07
W032048060WN	32.00	+0.00 / -0.04	32.00	48.00	6.00	9.00	48.00	+0.04 / -0.00			6.00	+0.50 / -0.00			3.15
W035045050WN	35.00	+0.00 / -0.04	35.00	45.00	5.00	8.00	45.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.81
W035045070WN	35.00	+0.00 / -0.04	35.00	45.00	7.00	10.00	45.00	+0.04 / -0.00			7.00	+0.50 / -0.00			3.28
W035047070WN	35.00	+0.00 / -0.04	35.00	47.00	7.00	10.00	47.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.30
W035050070WN	35.00	+0.00 / -0.04	35.00	50.00	7.00	10.00	50.00	+0.04 / -0.00			7.00	+0.50 / -0.00			3.15
W035052070WN	35.00	+0.00 / -0.04	35.00	52.00	7.00	10.00	52.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.53
W035053040WN*	35.00	+0.00 / -0.04	35.00	53.00	4.00	6.00	53.00	+0.05 / -0.00			4.00	+0.50 / -0.00			3.53
W036044050WN*	36.00	+0.00 / -0.04	36.00	44.00	5.00	8.00	44.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.81
W036045050WN	36.00	+0.00 / -0.04	36.00	45.00	5.00	8.00	45.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.81
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			2.81
W036046050WN	36.00	+0.00 / -0.04	36.00	46.00	5.00	8.00	46.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.30
W036046070WN	36.00	+0.00 / -0.04	36.00	46.00	7.00	10.00	46.00	+0.04 / -0.00			7.00	+0.50 / -0.00			3.15

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

WN SERIES - NBR/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W038048070WN	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			2.54
W038053050WN*	38.00	+0.00 / -0.04	38.00	53.00	5.00	8.00	53.00	+0.05 / -0.00			5.00	+0.50 / -0.00			3.53
W038058070WN*	38.00	+0.00 / -0.04	38.00	58.00	7.00	10.00	58.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.07
W040048050WN	40.00	+0.00 / -0.05	40.00	48.00	5.00	8.00	48.00	+0.04 / -0.00			5.00	+0.50 / -0.00			3.15
W040050050WN	40.00	+0.00 / -0.05	40.00	50.00	5.00	8.00	50.00	+0.04 / -0.00			5.00	+0.50 / -0.00			2.30
W040050070WN	40.00	+0.00 / -0.05	40.00	50.00	7.00	10.00	50.00	+0.04 / -0.00			7.00	+0.50 / -0.00			2.30
W040052050WN	40.00	+0.00 / -0.05	40.00	52.00	5.00	8.00	52.00	+0.05 / -0.00			5.00	+0.50 / -0.00			2.54
W040052070WN	40.00	+0.00 / -0.05	40.00	52.00	7.00	10.00	52.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.53
W040056050WN	40.00	+0.00 / -0.05	40.00	56.00	5.00	8.00	56.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.07
W040060070WN	40.00	+0.00 / -0.05	40.00	60.00	7.00	10.00	60.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.07
W040062070WN	40.00	+0.00 / -0.05	40.00	62.00	7.00	10.00	62.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.45
W042050070WN*	42.00	+0.00 / -0.05	42.00	50.00	7.00	10.00	50.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.15
W042052050WN*	42.00	+0.00 / -0.05	42.00	52.00	5.00	8.00	52.00	+0.05 / -0.00			5.00	+0.50 / -0.00			3.15
W042052070WN	42.00	+0.00 / -0.05	42.00	52.00	7.00	10.00	52.00	+0.05 / -0.00			7.00	+0.50 / -0.00			2.54
W045053050WN	45.00	+0.00 / -0.05	45.00	53.00	5.00	8.00	53.00	+0.05 / -0.00			5.00	+0.50 / -0.00			3.53
W045055050WN	45.00	+0.00 / -0.05	45.00	55.00	5.00	8.00	55.00	+0.05 / -0.00			5.00	+0.50 / -0.00			2.54
W045055070WN	45.00	+0.00 / -0.05	45.00	55.00	7.00	10.00	55.00	+0.05 / -0.00			7.00	+0.50 / -0.00			2.54
W045056050WN	45.00	+0.00 / -0.05	45.00	56.00	5.00	8.00	56.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.07
W045057070WN	45.00	+0.00 / -0.05	45.00	57.00	7.00	10.00	57.00	+0.05 / -0.00			7.00	+0.50 / -0.00			2.78
W045060070WN	45.00	+0.00 / -0.05	45.00	60.00	7.00	10.00	60.00	+0.05 / -0.00			7.00	+0.50 / -0.00			2.78
W045065070WN	45.00	+0.00 / -0.05	45.00	65.00	7.00	10.00	65.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.45
W048060070WN	48.00	+0.00 / -0.05	48.00	60.00	7.00	10.00	60.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.07
W050056050WN	50.00	+0.00 / -0.05	50.00	56.00	5.00	8.00	56.00	+0.05 / -0.00			5.00	+0.50 / -0.00			2.54
W050058050WN	50.00	+0.00 / -0.05	50.00	58.00	5.00	8.00	58.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.07
W050060050WN	50.00	+0.00 / -0.05	50.00	60.00	5.00	8.00	60.00	+0.05 / -0.00			5.00	+0.50 / -0.00			3.99
W050060070WN	50.00	+0.00 / -0.05	50.00	60.00	7.00	10.00	60.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.48
W050062050WN	50.00	+0.00 / -0.05	50.00	62.00	5.00	8.00	62.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.45
W050062070WN	50.00	+0.00 / -0.05	50.00	62.00	7.00	10.00	62.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.45
W050065050WN	50.00	+0.00 / -0.05	50.00	65.00	5.00	8.00	65.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.45
W050065070WN	50.00	+0.00 / -0.05	50.00	65.00	7.00	10.00	65.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.20
W050070070WN	50.00	+0.00 / -0.05	50.00	70.00	7.00	10.00	70.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.84
W050085070WN*	50.00	+0.00 / -0.05	50.00	85.00	7.00	10.00	85.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.05
W052062070WN*	52.00	+0.00 / -0.05	52.00	62.00	7.00	10.00	62.00	+0.05 / -0.00			7.00	+0.50 / -0.00			5.44
W055063070WN	55.00	+0.00 / -0.05	55.00	63.00	7.00	10.00	63.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.03
W055065050WN	55.00	+0.00 / -0.05	55.00	65.00	5.00	8.00	65.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.45
W055065070WN	55.00	+0.00 / -0.05	55.00	65.00	7.00	10.00	65.00	+0.05 / -0.00			7.00	+0.50 / -0.00			2.91
W055068040WN*	55.00	+0.00 / -0.05	55.00	68.00	4.00	6.00	68.00	+0.05 / -0.00			4.00	+0.50 / -0.00			4.84
W055068070WN	55.00	+0.00 / -0.05	55.00	68.00	7.00	10.00	68.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.84
W055080050WN	55.00	+0.00 / -0.05	55.00	80.00	5.00	8.00	80.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.81
W056065050WN*	56.00	+0.00 / -0.05	56.00	65.00	5.00	8.00	65.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.45
W056065070WN	56.00	+0.00 / -0.05	56.00	65.00	7.00	10.00	65.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.03
W056066050WN	56.00	+0.00 / -0.05	56.00	66.00	5.00	8.00	66.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.84
W056066070WN	56.00	+0.00 / -0.05	56.00	66.00	7.00	10.00	66.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.14
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			5.32
W060068050WN*	60.00	+0.00 / -0.05	60.00	68.00	5.00	8.00	68.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.84
W060070050WN	60.00	+0.00 / -0.05	60.00	70.00	5.00	8.00	70.00	+0.05 / -0.00			5.00	+0.50 / -0.00			4.84
W060070070WN	60.00	+0.00 / -0.05	60.00	70.00	7.00	10.00	70.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.83
W060072050WN*	60.00	+0.00 / -0.05	60.00	72.00	5.00	8.00	72.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.32

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

WN SERIES - NBR/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W060074050WN	60.00	+0.00 / -0.05	60.00	74.00	5.00	8.00	74.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.32
W060075070WN	60.00	+0.00 / -0.05	60.00	75.00	7.00	10.00	75.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.52
W060080070WN	60.00	+0.00 / -0.05	60.00	80.00	7.00	10.00	80.00	+0.05 / -0.00			7.00	+0.50 / -0.00			5.81
W063073050WN	63.00	+0.00 / -0.05	63.00	73.00	5.00	8.00	73.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.32
W063073070WN	63.00	+0.00 / -0.05	63.00	73.00	7.00	10.00	73.00	+0.05 / -0.00			7.00	+0.50 / -0.00			5.32
W063075070WN	63.00	+0.00 / -0.05	63.00	75.00	7.00	10.00	75.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.03
W063080050WN*	63.00	+0.00 / -0.05	63.00	80.00	5.00	8.00	80.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.81
W063083050WN	63.00	+0.00 / -0.05	63.00	83.00	5.00	8.00	83.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.81
W063085070WN*	63.00	+0.00 / -0.05	63.00	85.00	7.00	10.00	85.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.05
W065075050WN*	65.00	+0.00 / -0.06	65.00	75.00	5.00	8.00	75.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.32
W065075070WN	65.00	+0.00 / -0.06	65.00	75.00	7.00	10.00	75.00	+0.05 / -0.00			7.00	+0.50 / -0.00			3.52
W065080070WN	65.00	+0.00 / -0.06	65.00	80.00	7.00	10.00	80.00	+0.05 / -0.00			7.00	+0.50 / -0.00			5.81
W065085070WN*	65.00	+0.00 / -0.06	65.00	85.00	7.00	10.00	85.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.05
W067083070WN*	67.00	+0.00 / -0.06	67.00	83.00	7.00	10.00	83.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.05
W070080050WN	70.00	+0.00 / -0.06	70.00	80.00	5.00	8.00	80.00	+0.05 / -0.00			5.00	+0.50 / -0.00			5.81
W070080070WN	70.00	+0.00 / -0.06	70.00	80.00	7.00	10.00	80.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.10
W070085070WN*	70.00	+0.00 / -0.06	70.00	85.00	7.00	10.00	85.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.05
W070090070WN	70.00	+0.00 / -0.06	70.00	90.00	7.00	10.00	90.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.78
W072082070WN*	72.00	+0.00 / -0.06	72.00	82.00	7.00	10.00	82.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.05
W073089070WN*	73.00	+0.00 / -0.06	73.00	89.00	7.00	10.00	89.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.05
W075083070WN*	75.00	+0.00 / -0.06	75.00	83.00	7.00	10.00	83.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.72
W075085070WN	75.00	+0.00 / -0.06	75.00	85.00	7.00	10.00	85.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.49
W075087050WN	75.00	+0.00 / -0.06	75.00	87.00	5.00	8.00	87.00	+0.05 / -0.00			5.00	+0.50 / -0.00			6.78
W075090070WN	75.00	+0.00 / -0.06	75.00	90.00	7.00	10.00	90.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.78
W078088070WN	78.00	+0.00 / -0.09	78.00	88.00	7.00	10.00	88.00	+0.05 / -0.00			7.00	+0.50 / -0.00			7.58
W080088050WN*	80.00	+0.00 / -0.09	80.00	88.00	5.00	8.00	88.00	+0.05 / -0.00			5.00	+0.50 / -0.00			6.78
W080088070WN	80.00	+0.00 / -0.09	80.00	88.00	7.00	10.00	88.00	+0.05 / -0.00			7.00	+0.50 / -0.00			6.78
W080090070WN	80.00	+0.00 / -0.09	80.00	90.00	7.00	10.00	90.00	+0.05 / -0.00			7.00	+0.50 / -0.00			4.72
W080095070WN	80.00	+0.00 / -0.09	80.00	95.00	7.00	10.00	95.00	+0.05 / -0.00			7.00	+0.50 / -0.00			7.55
W080100060WN	80.00	+0.00 / -0.09	80.00	100.00	6.00	9.00	100.00	+0.05 / -0.00			6.00	+0.50 / -0.00			8.37
W080100120WN	80.00	+0.00 / -0.09	80.00	100.00	12.00	16.00	100.00	+0.05 / -0.00			12.00	+0.50 / -0.00			9.26
W082092070WN*	82.00	+0.00 / -0.09	82.00	92.00	7.00	10.00	92.00	+0.05 / -0.00			7.00	+0.50 / -0.00			7.55
W085095070WN	85.00	+0.00 / -0.09	85.00	95.00	7.00	10.00	95.00	+0.05 / -0.00			7.00	+0.50 / -0.00			9.64
W090100050WN	90.00	+0.00 / -0.09	90.00	100.00	5.00	8.00	100.00	+0.05 / -0.00			5.00	+0.50 / -0.00			8.37
W090100070WN	90.00	+0.00 / -0.09	90.00	100.00	7.00	10.00	100.00	+0.05 / -0.00			7.00	+0.50 / -0.00			8.37
W090110070WN	90.00	+0.00 / -0.09	90.00	110.00	7.00	10.00	110.00	+0.05 / -0.00			7.00	+0.50 / -0.00			9.92
W095105070WN	95.00	+0.00 / -0.09	95.00	105.00	7.00	10.00	105.00	+0.05 / -0.00			7.00	+0.50 / -0.00			7.51
W095106070WN*	95.00	+0.00 / -0.09	95.00	106.00	7.00	10.00	106.00	+0.05 / -0.00			7.00	+0.50 / -0.00			9.05
W100110050WN	100.00	+0.00 / -0.09	100.00	110.00	5.00	8.00	110.00	+0.05 / -0.00			5.00	+0.50 / -0.00			9.92
W100110070WN	100.00	+0.00 / -0.09	100.00	110.00	7.00	10.00	110.00	+0.05 / -0.00			7.00	+0.50 / -0.00			7.85
W100115070WN*	100.00	+0.00 / -0.09	100.00	115.00	7.00	10.00	115.00	+0.05 / -0.00			7.00	+0.50 / -0.00			10.79
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			10.79
W100115090WN*	100.00	+0.00 / -0.09	100.00	115.00	9.00	12.00	115.00	+0.05 / -0.00			9.00	+0.50 / -0.00			10.79
W105115070WN	105.00	+0.00 / -0.13	105.00	115.00	7.00	10.00	115.00	+0.05 / -0.00			7.00	+0.50 / -0.00			8.58
W110120070WN	110.00	+0.00 / -0.13	110.00	120.00	7.00	10.00	120.00	+0.05 / -0.00			7.00	+0.50 / -0.00			9.08
W110122070WN*	110.00	+0.00 / -0.13	110.00	122.00	7.00	10.00	122.00	+0.06 / -0.00			7.00	+0.50 / -0.00			12.58
W110125070WN	110.00	+0.00 / -0.13	110.00	125.00	7.00	10.00	125.00	+0.06 / -0.00			7.00	+0.50 / -0.00			12.58
W110125090WN*	110.00	+0.00 / -0.13	110.00	125.00	9.00	12.00	125.00	+0.06 / -0.00			9.00	+0.50 / -0.00			12.58

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

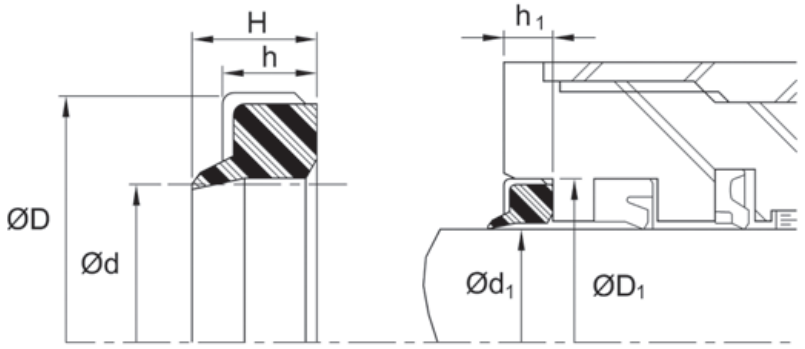
WN SERIES - NBR/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W115125070WN	115.00	+0.00 / -0.13	115.00	125.00	7.00	10.00	125.00	+0.06 / -0.00			7.00	+0.50 / -0.00			9.80
W120130070WN	120.00	+0.00 / -0.13	120.00	130.00	7.00	10.00	130.00	+0.06 / -0.00			7.00	+0.50 / -0.00			11.26
W120135070WN*	120.00	+0.00 / -0.13	120.00	135.00	7.00	10.00	135.00	+0.06 / -0.00			7.00	+0.50 / -0.00			13.99
W120140080WN*	120.00	+0.00 / -0.13	120.00	140.00	8.00	12.00	140.00	+0.06 / -0.00			8.00	+0.50 / -0.00			15.10
W123147090WN*	123.00	+0.00 / -0.13	123.00	147.00	9.00	12.00	147.00	+0.06 / -0.00			9.00	+0.50 / -0.00			15.10
W125135070WN*	125.00	+0.00 / -0.13	125.00	135.00	7.00	10.00	135.00	+0.06 / -0.00			7.00	+0.50 / -0.00			13.99
W125137070WN*	125.00	+0.00 / -0.13	125.00	137.00	7.00	10.00	137.00	+0.06 / -0.00			7.00	+0.50 / -0.00			15.10
W125140090WN	125.00	+0.00 / -0.13	125.00	140.00	9.00	12.00	140.00	+0.06 / -0.00			9.00	+0.50 / -0.00			9.31
W130140070WN	130.00	+0.00 / -0.13	130.00	140.00	7.00	10.00	140.00	+0.06 / -0.00			7.00	+0.50 / -0.00			15.10
W130145090WN	130.00	+0.00 / -0.13	130.00	145.00	9.00	12.00	145.00	+0.06 / -0.00			9.00	+0.50 / -0.00			9.92
W135145070WN*	135.00	+0.00 / -0.13	135.00	145.00	7.00	10.00	145.00	+0.06 / -0.00			7.00	+0.50 / -0.00			16.26
W135150070WN*	135.00	+0.00 / -0.13	135.00	150.00	7.00	10.00	150.00	+0.06 / -0.00			7.00	+0.50 / -0.00			16.26
W135150090WN	135.00	+0.00 / -0.13	135.00	150.00	9.00	12.00	150.00	+0.06 / -0.00			9.00	+0.50 / -0.00			17.23
W140150070WN*	140.00	+0.00 / -0.13	140.00	150.00	7.00	10.00	150.00	+0.06 / -0.00			7.00	+0.50 / -0.00			17.23
W140155090WN	140.00	+0.00 / -0.13	140.00	155.00	9.00	12.00	155.00	+0.06 / -0.00			9.00	+0.50 / -0.00			10.89
W145160090WN	145.00	+0.00 / -0.13	145.00	160.00	9.00	12.00	160.00	+0.06 / -0.00			9.00	+0.50 / -0.00			20.18
W150165090WN	150.00	+0.00 / -0.13	150.00	165.00	9.00	12.00	165.00	+0.06 / -0.00			9.00	+0.50 / -0.00			33.09
W150166080WN*	150.00	+0.00 / -0.13	150.00	166.00	8.00	12.00	166.00	+0.06 / -0.00			8.00	+0.50 / -0.00			22.41
W160175070WN*	160.00	+0.00 / -0.13	160.00	175.00	7.00	10.00	175.00	+0.06 / -0.00			7.00	+0.50 / -0.00			26.42
W160175090WN	160.00	+0.00 / -0.13	160.00	175.00	9.00	12.00	175.00	+0.06 / -0.00			9.00	+0.50 / -0.00			13.06
W160176080WN*	160.00	+0.00 / -0.13	160.00	176.00	8.00	12.00	176.00	+0.06 / -0.00			8.00	+0.50 / -0.00			26.42
W163175070WN*	163.00	+0.00 / -0.13	163.00	175.00	7.00	10.00	175.00	+0.06 / -0.00			7.00	+0.50 / -0.00			26.42
W170185090WN*	170.00	+0.00 / -0.13	170.00	185.00	9.00	12.00	185.00	+0.06 / -0.00			9.00	+0.50 / -0.00			30.78
W170185100WN	170.00	+0.00 / -0.13	170.00	185.00	10.00	14.00	185.00	+0.06 / -0.00			10.00	+0.50 / -0.00			30.78
W180195100WN	180.00	+0.00 / -0.13	180.00	195.00	10.00	14.00	195.00	+0.07 / -0.00			10.00	+0.50 / -0.00			48.89
W185200100WN*	185.00	+0.00 / -0.13	185.00	200.00	10.00	14.00	200.00	+0.07 / -0.00			10.00	+0.50 / -0.00			35.76
W185201080WN*	185.00	+0.00 / -0.13	185.00	201.00	8.00	12.00	201.00	+0.07 / -0.00			8.00	+0.50 / -0.00			72.68
W190202090WN*	190.00	+0.00 / -0.13	190.00	202.00	9.00	12.00	202.00	+0.07 / -0.00			9.00	+0.50 / -0.00			43.75
W190220090WN*	190.00	+0.00 / -0.13	190.00	220.00	9.00	12.00	220.00	+0.07 / -0.00			9.00	+0.50 / -0.00			48.97
W200215090WN*	200.00	+0.00 / -0.13	200.00	215.00	9.00	12.00	215.00	+0.07 / -0.00			9.00	+0.50 / -0.00			48.97
W200220120WN	200.00	+0.00 / -0.13	200.00	220.00	12.00	16.00	220.00	+0.07 / -0.00			12.00	+0.50 / -0.00			17.14
W210230120WN*	210.00	+0.00 / -0.13	210.00	230.00	12.00	16.00	230.00	+0.07 / -0.00			12.00	+0.50 / -0.00			53.67
W220240090WN*	220.00	+0.00 / -0.13	220.00	240.00	9.00	12.00	240.00	+0.07 / -0.00			9.00	+0.50 / -0.00			101.99
W220240120WN	220.00	+0.00 / -0.13	220.00	240.00	12.00	16.00	240.00	+0.07 / -0.00			12.00	+0.50 / -0.00			58.99
W230246080WN*	230.00	+0.00 / -0.13	230.00	246.50	8.00	12.00	246.50	+0.07 / -0.00			8.00	+0.50 / -0.00			O/R
W240260120WN*	240.00	+0.00 / -0.13	240.00	260.00	12.00	16.00	260.00	+0.08 / -0.00			12.00	+0.50 / -0.00			73.03
W250270120WN*	250.00	+0.00 / -0.13	250.00	270.00	12.00	16.00	270.00	+0.08 / -0.00			12.00	+0.50 / -0.00			79.51
W270295120WN*	270.00	+0.00 / -0.13	270.00	295.00	12.00	16.00	295.00	+0.08 / -0.00			12.00	+0.50 / -0.00			105.40
W280300120WN	280.00	+0.00 / -0.13	280.00	300.00	12.00	16.00	300.00	+0.08 / -0.00			12.00	+0.50 / -0.00			105.40
W310340160WN*	310.00	+0.00 / -0.13	310.00	340.00	16.00	22.00	340.00	+0.08 / -0.00			16.00	+0.50 / -0.00			139.00
W320340120WN*	320.00	+0.00 / -0.13	320.00	340.00	12.00	16.00	340.00	+0.09 / -0.00			12.00	+0.50 / -0.00			376.80
W360380120WN*	360.00	+0.00 / -0.13	360.00	380.00	12.00	16.00	380.00	+0.09 / -0.00			12.00	+0.50 / -0.00			O/R
W360380150WN*	360.00	+0.00 / -0.13	360.00	380.00	15.00	18.00	380.00	+0.09 / -0.00			15.00	+0.50 / -0.00			213.19
W390420160WN*	390.00	+0.00 / -0.13	390.00	420.00	16.00	22.00	420.00	+0.09 / -0.00			16.00	+0.50 / -0.00			221.69
W400420120WN*	400.00	+0.00 / -0.13	400.00	420.00	12.00	16.00	420.00	+0.10 / -0.00			12.00	+0.50 / -0.00			202.92

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

WO - Rod Wipers

Polyurethane/Steel



Temperature: -22/212F [-30/100C] **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions						$
		Tol.	d	D	h	H	D1	Tol.	D2 Tol.	h1	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		7.56
W007017050WO*	7.10	+0.00 / -0.04	7.10	17.00	5.00	7.00	17.00	+0.02 / -0.00		5.00	+0.50 / -0.00		7.56
W008018050WO*	8.00	+0.00 / -0.04	8.00	18.00	5.00	7.00	18.00	+0.02 / -0.00		5.00	+0.50 / -0.00		7.56
W009019050WO*	9.00	+0.00 / -0.04	9.00	19.00	5.00	7.00	19.00	+0.03 / -0.00		5.00	+0.50 / -0.00		7.56
W010020050WO*	10.00	+0.00 / -0.04	10.00	20.00	5.00	7.00	20.00	+0.03 / -0.00		5.00	+0.50 / -0.00		9.60
W011021050WO*	11.20	+0.00 / -0.04	11.20	21.00	5.00	7.00	21.00	+0.03 / -0.00		5.00	+0.50 / -0.00		9.60
W012020040WO*	12.00	+0.00 / -0.04	12.00	20.00	4.00	6.00	20.00	+0.03 / -0.00		4.00	+0.50 / -0.00		11.10
W012023050WO*	12.50	+0.00 / -0.04	12.50	23.00	5.00	7.00	23.00	+0.03 / -0.00		5.00	+0.50 / -0.00		10.42
W012025050WO*	12.00	+0.00 / -0.04	12.00	25.00	5.00	7.00	25.00	+0.03 / -0.00		5.00	+0.50 / -0.00		10.42
W014024050WO*	14.00	+0.00 / -0.04	14.00	24.00	5.00	7.00	24.00	+0.03 / -0.00		5.00	+0.50 / -0.00		10.42
W014025050WO*	14.00	+0.00 / -0.04	14.00	25.00	5.00	7.00	25.00	+0.03 / -0.00		5.00	+0.50 / -0.00		10.52
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		12.63
W015025050WO	15.00	+0.00 / -0.04	15.00	25.00	5.00	7.00	25.00	+0.03 / -0.00		5.00	+0.50 / -0.00		7.65
W016022030WO	16.00	+0.00 / -0.04	16.00	22.00	3.00	4.00	22.00	+0.03 / -0.00		3.00	+0.50 / -0.00		8.08
W016023050WO*	16.00	+0.00 / -0.04	16.00	23.00	5.00	7.00	23.00	+0.03 / -0.00		5.00	+0.50 / -0.00		13.78
W016026050WO	16.00	+0.00 / -0.04	16.00	26.00	5.00	7.00	26.00	+0.03 / -0.00		5.00	+0.50 / -0.00		11.37
W018028050WO	18.00	+0.00 / -0.04	18.00	28.00	5.00	7.00	28.00	+0.03 / -0.00		5.00	+0.50 / -0.00		8.12
W018028070WO	18.00	+0.00 / -0.04	18.00	28.00	7.00	10.00	28.00	+0.03 / -0.00		7.00	+0.50 / -0.00		10.62
W018028070WO/PU7*	18.00	+0.00 / -0.04	18.00	28.00	7.00	10.00	28.00	+0.03 / -0.00		7.00	+0.50 / -0.00		11.54
W018030060WO	18.00	+0.00 / -0.04	18.00	30.00	6.00	9.00	30.00	+0.03 / -0.00		6.00	+0.50 / -0.00		11.37
W020028050WO*	20.00	+0.00 / -0.04	20.00	28.00	5.00	7.00	28.00	+0.03 / -0.00		5.00	+0.50 / -0.00		14.24
W020030050WO	20.00	+0.00 / -0.04	20.00	30.00	5.00	7.00	30.00	+0.03 / -0.00		5.00	+0.50 / -0.00		9.32
W020030070WO	20.00	+0.00 / -0.04	20.00	30.00	7.00	10.00	30.00	+0.03 / -0.00		7.00	+0.50 / -0.00		13.12
W020032060WO	20.00	+0.00 / -0.04	20.00	32.00	6.00	9.00	32.00	+0.04 / -0.00		6.00	+0.50 / -0.00		12.39
W021032050WO*	21.00	+0.00 / -0.04	21.00	32.00	5.00	9.00	32.00	+0.04 / -0.00		5.00	+0.50 / -0.00		12.39
W022032070WO*	22.00	+0.00 / -0.04	22.00	32.00	7.00	10.00	32.00	+0.04 / -0.00		7.00	+0.50 / -0.00		14.47
W022034060WO	22.00	+0.00 / -0.04	22.00	34.00	6.00	9.00	34.00	+0.04 / -0.00		6.00	+0.50 / -0.00		12.39
W022034060WO-1*	22.40	+0.00 / -0.04	22.40	34.40	6.00	9.00	34.40	+0.04 / -0.00		6.00	+0.50 / -0.00		12.39
W025035050WO	25.00	+0.00 / -0.04	25.00	35.00	5.00	7.00	35.00	+0.04 / -0.00		5.00	+0.50 / -0.00		9.71
W025035070WO	25.00	+0.00 / -0.04	25.00	35.00	7.00	10.00	35.00	+0.04 / -0.00		7.00	+0.50 / -0.00		13.56
W025037060WO	25.00	+0.00 / -0.04	25.00	37.00	6.00	9.00	37.00	+0.04 / -0.00		6.00	+0.50 / -0.00		9.83
W027039060WO*	27.00	+0.00 / -0.04	27.00	39.00	6.00	9.00	39.00	+0.04 / -0.00		6.00	+0.50 / -0.00		13.55
W028038050WO*	28.00	+0.00 / -0.04	28.00	38.00	5.00	7.00	38.00	+0.04 / -0.00		5.00	+0.50 / -0.00		7.98
W028038070WO*	28.00	+0.00 / -0.04	28.00	38.00	7.00	10.00	38.00	+0.04 / -0.00		7.00	+0.50 / -0.00		13.78
W028040060WO*	28.00	+0.00 / -0.04	28.00	40.00	6.00	9.00	40.00	+0.04 / -0.00		6.00	+0.50 / -0.00		13.55
W028040070WO*	28.00	+0.00 / -0.04	28.00	40.00	7.00	10.00	40.00	+0.04 / -0.00		7.00	+0.50 / -0.00		13.55
W030040050WO	30.00	+0.00 / -0.04	30.00	40.00	5.00	7.00	40.00	+0.04 / -0.00		5.00	+0.50 / -0.00		10.20

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

WO SERIES - AU/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W030040070WO	30.00	+0.00 / -0.04	30.00	40.00	7.00	10.00	40.00	+0.04 / -0.00			7.00	+0.50 / -0.00			13.78
W030042060WO	30.00	+0.00 / -0.04	30.00	42.00	6.00	9.00	42.00	+0.04 / -0.00			6.00	+0.50 / -0.00			10.43
W030050095WO*	30.00	+0.00 / -0.04	30.00	50.00	9.50	12.50	50.00	+0.04 / -0.00			9.50	+0.50 / -0.00			16.20
W031042070WO*	31.70	+0.00 / -0.04	31.70	42.80	7.00	10.00	42.80	+0.04 / -0.00			7.00	+0.50 / -0.00			14.84
W031044070WO*	31.50	+0.00 / -0.04	31.50	44.00	7.00	10.00	44.00	+0.04 / -0.00			7.00	+0.50 / -0.00			14.84
W031044070WO-1*	31.75	+0.00 / -0.04	31.75	44.50	7.00	10.00	44.50	+0.04 / -0.00			7.00	+0.50 / -0.00			14.84
W032042050WO	32.00	+0.00 / -0.04	32.00	42.00	5.00	7.00	42.00	+0.04 / -0.00			5.00	+0.50 / -0.00			10.59
W032042070WO*	32.00	+0.00 / -0.04	32.00	42.00	7.00	10.00	42.00	+0.04 / -0.00			7.00	+0.50 / -0.00			13.78
W032044070WO	32.00	+0.00 / -0.04	32.00	44.00	7.00	10.00	44.00	+0.04 / -0.00			7.00	+0.50 / -0.00			14.84
W032045070WO	32.00	+0.00 / -0.04	32.00	45.00	7.00	10.00	45.00	+0.04 / -0.00			7.00	+0.50 / -0.00			14.44
W032052080WO	32.00	+0.00 / -0.04	32.00	52.00	8.00	11.00	52.00	+0.04 / -0.00			8.00	+0.50 / -0.00			17.50
W034046070WO*	34.00	+0.00 / -0.04	34.00	46.00	7.00	10.00	46.00	+0.04 / -0.00			7.00	+0.50 / -0.00			16.20
W035045070WO	35.00	+0.00 / -0.04	35.00	45.00	7.00	10.00	45.00	+0.04 / -0.00			7.00	+0.50 / -0.00			10.92
W035047070WO	35.00	+0.00 / -0.04	35.00	47.00	7.00	10.00	47.00	+0.04 / -0.00			7.00	+0.50 / -0.00			11.28
W035047070WO-1*	35.50	+0.00 / -0.04	35.50	47.50	7.00	10.00	47.50	+0.04 / -0.00			7.00	+0.50 / -0.00			16.20
W036045070WO*	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			14.44
W036046070WO	36.00	+0.00 / -0.04	36.00	46.00	7.00	10.00	46.00	+0.04 / -0.00			7.00	+0.50 / -0.00			14.65
W036050070WO*	36.00	+0.00 / -0.04	36.00	50.00	7.00	10.00	50.00	+0.04 / -0.00			7.00	+0.50 / -0.00			18.65
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			11.55
W038050070WO	38.00	+0.00 / -0.04	38.00	50.00	7.00	10.00	50.00	+0.04 / -0.00			7.00	+0.50 / -0.00			19.05
W038052075WO*	38.40	+0.00 / -0.04	38.40	52.00	7.50	10.50	52.00	+0.05 / -0.00			7.50	+0.50 / -0.00			20.49
W040050050WO	40.00	+0.00 / -0.05	40.00	50.00	5.00	8.00	50.00	+0.04 / -0.00			5.00	+0.50 / -0.00			22.47
W040050070WO	40.00	+0.00 / -0.05	40.00	50.00	7.00	10.00	50.00	+0.04 / -0.00			7.00	+0.50 / -0.00			11.40
W040052070WO	40.00	+0.00 / -0.04	40.00	52.00	7.00	10.00	52.00	+0.05 / -0.00			7.00	+0.50 / -0.00			11.79
W040060076WO*	40.00	+0.00 / -0.05	40.00	60.00	7.60	10.60	60.00	+0.05 / -0.00			7.60	+0.50 / -0.00			21.17
W042052070WO*	42.00	+0.00 / -0.05	42.00	52.00	7.00	10.00	52.00	+0.05 / -0.00			7.00	+0.50 / -0.00			19.47
W045055070WO	45.00	+0.00 / -0.05	45.00	55.00	7.00	10.00	55.00	+0.05 / -0.00			7.00	+0.50 / -0.00			12.42
W045057070WO	45.00	+0.00 / -0.05	45.00	57.00	7.00	10.00	57.00	+0.05 / -0.00			7.00	+0.50 / -0.00			12.69
W047059070WO*	47.00	+0.00 / -0.05	47.00	59.00	7.00	10.00	59.00	+0.05 / -0.00			7.00	+0.50 / -0.00			19.47
W047062090WO*	47.60	+0.00 / -0.05	47.60	62.00	9.00	12.00	62.00	+0.05 / -0.00			9.00	+0.50 / -0.00			24.44
W050060070WO	50.00	+0.00 / -0.05	50.00	60.00	7.00	10.00	60.00	+0.05 / -0.00			7.00	+0.50 / -0.00			13.14
W050062070WO	50.00	+0.00 / -0.05	50.00	62.00	7.00	10.00	62.00	+0.05 / -0.00			7.00	+0.50 / -0.00			13.49
W050065070WO*	50.00	+0.00 / -0.05	50.00	65.00	7.00	10.00	65.00	+0.05 / -0.00			7.00	+0.50 / -0.00			15.97
W053067080WO*	53.00	+0.00 / -0.05	53.00	67.00	8.00	11.00	67.00	+0.05 / -0.00			8.00	+0.50 / -0.00			15.97
W055065070WO	55.00	+0.00 / -0.05	55.00	65.00	7.00	10.00	65.00	+0.05 / -0.00			7.00	+0.50 / -0.00			14.75
W055069080WO	55.00	+0.00 / -0.05	55.00	69.00	8.00	11.00	69.00	+0.05 / -0.00			8.00	+0.50 / -0.00			15.63
W055070070WO	55.00	+0.00 / -0.05	55.00	70.00	7.00	10.00	70.00	+0.05 / -0.00			7.00	+0.50 / -0.00			16.93
W056066070WO*	56.00	+0.00 / -0.05	56.00	66.00	7.00	10.00	66.00	+0.05 / -0.00			7.00	+0.50 / -0.00			15.97
W056070080WO	56.00	+0.00 / -0.05	56.00	70.00	8.00	11.00	70.00	+0.05 / -0.00			8.00	+0.50 / -0.00			15.97
W060070070WO	60.00	+0.00 / -0.05	60.00	70.00	7.00	10.00	70.00	+0.05 / -0.00			7.00	+0.50 / -0.00			15.93
W060074080WO	60.00	+0.00 / -0.05	60.00	74.00	8.00	11.00	74.00	+0.05 / -0.00			8.00	+0.50 / -0.00			16.32
W060080100WO*	60.00	+0.00 / -0.05	60.00	80.00	10.00	13.00	80.00	+0.05 / -0.00			10.00	+0.50 / -0.00			30.36
W063073070WO	63.00	+0.00 / -0.05	63.00	73.00	7.00	10.00	73.00	+0.05 / -0.00			7.00	+0.50 / -0.00			17.39
W063075070WO	63.00	+0.00 / -0.05	63.00	75.00	7.00	10.00	75.00	+0.05 / -0.00			7.00	+0.50 / -0.00			17.28
W063077080WO	63.00	+0.00 / -0.05	63.00	77.00	8.00	11.00	77.00	+0.05 / -0.00			8.00	+0.50 / -0.00			22.53
W063078070WO	63.00	+0.00 / -0.05	63.00	78.00	7.00	10.00	78.00	+0.05 / -0.00			7.00	+0.50 / -0.00			18.53
W064078080WO*	64.00	+0.00 / -0.06	64.00	78.00	8.00	11.00	78.00	+0.05 / -0.00			8.00	+0.50 / -0.00			18.53
W065075070WO	65.00	+0.00 / -0.06	65.00	75.00	7.00	10.00	75.00	+0.05 / -0.00			7.00	+0.50 / -0.00			16.85

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

WO SERIES - AU/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W065079080WO	65.00	+0.00 / -0.06	65.00	79.00	8.00	11.00	79.00	+0.05 / -0.00			8.00	+0.50 / -0.00			17.46
W067081080WO*	67.00	+0.00 / -0.06	67.00	81.00	8.00	11.00	81.00	+0.05 / -0.00			8.00	+0.50 / -0.00			17.95
W070080070WO	70.00	+0.00 / -0.06	70.00	80.00	7.00	10.00	80.00	+0.05 / -0.00			7.00	+0.50 / -0.00			17.95
W070084080WO	70.00	+0.00 / -0.06	70.00	84.00	8.00	11.00	84.00	+0.05 / -0.00			8.00	+0.50 / -0.00			18.55
W070086105WO*	70.00	+0.00 / -0.06	70.00	86.00	10.50	13.50	86.00	+0.05 / -0.00			10.50	+0.50 / -0.00			21.36
W070090100WO*	70.00	+0.00 / -0.06	70.00	90.00	10.00	13.00	90.00	+0.05 / -0.00			10.00	+0.50 / -0.00			21.36
W071085080WO*	71.00	+0.00 / -0.06	71.00	85.00	8.00	11.00	85.00	+0.05 / -0.00			8.00	+0.50 / -0.00			21.36
W075085070WO	75.00	+0.00 / -0.06	75.00	85.00	7.00	10.00	85.00	+0.05 / -0.00			7.00	+0.50 / -0.00			19.12
W075089080WO	75.00	+0.00 / -0.06	75.00	89.00	8.00	11.00	89.00	+0.05 / -0.00			8.00	+0.50 / -0.00			19.73
W080090070WO	80.00	+0.00 / -0.09	80.00	90.00	7.00	10.00	90.00	+0.05 / -0.00			7.00	+0.50 / -0.00			21.03
W080094080WO	80.00	+0.00 / -0.09	80.00	94.00	8.00	11.00	94.00	+0.05 / -0.00			8.00	+0.50 / -0.00			21.50
W080095070WO*	80.00	+0.00 / -0.09	80.00	95.00	7.00	10.00	95.00	+0.05 / -0.00			7.00	+0.50 / -0.00			21.36
W080100120WO*	80.00	+0.00 / -0.09	80.00	100.00	12.00	15.00	100.00	+0.05 / -0.00			12.00	+0.50 / -0.00			24.18
W085095070WO	85.00	+0.00 / -0.09	85.00	95.00	7.00	10.00	95.00	+0.05 / -0.00			7.00	+0.50 / -0.00			21.91
W085099080WO	85.00	+0.00 / -0.09	85.00	99.00	8.00	11.00	99.00	+0.05 / -0.00			8.00	+0.50 / -0.00			22.30
W090100070WO	90.00	+0.00 / -0.09	90.00	100.00	7.00	10.00	100.00	+0.05 / -0.00			7.00	+0.50 / -0.00			23.71
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			24.18
W090110080WO*	90.00	+0.00 / -0.09	90.00	110.00	8.00	11.00	110.00	+0.05 / -0.00			8.00	+0.50 / -0.00			28.89
W090110100WO	90.00	+0.00 / -0.09	90.00	110.00	10.00	13.00	110.00	+0.05 / -0.00			10.00	+0.50 / -0.00			28.89
W092106080WO*	92.00	+0.00 / -0.09	92.00	106.00	8.00	11.00	106.00	+0.05 / -0.00			8.00	+0.50 / -0.00			28.89
W095109080WO	95.00	+0.00 / -0.09	95.00	109.00	8.00	11.00	109.00	+0.05 / -0.00			8.00	+0.50 / -0.00			27.24
W100110070WO	100.00	+0.00 / -0.09	100.00	110.00	7.00	10.00	110.00	+0.05 / -0.00			7.00	+0.50 / -0.00			28.32
W100114080WO	100.00	+0.00 / -0.09	100.00	114.00	8.00	11.00	114.00	+0.05 / -0.00			8.00	+0.50 / -0.00			28.89
W100120100WO*	100.00	+0.00 / -0.09	100.00	120.00	10.00	13.00	120.00	+0.05 / -0.00			10.00	+0.50 / -0.00			30.54
W105115070WO	105.00	+0.00 / -0.09	105.00	115.00	7.00	10.00	115.00	+0.06 / -0.00			7.00	+0.50 / -0.00			27.12
W105121090WO	105.00	+0.00 / -0.13	105.00	121.00	9.00	12.00	121.00	+0.06 / -0.00			9.00	+0.50 / -0.00			30.54
W106122090WO*	106.00	+0.00 / -0.13	106.00	122.00	9.00	12.00	122.00	+0.06 / -0.00			9.00	+0.50 / -0.00			33.13
W108125090WO*	108.00	+0.00 / -0.13	108.00	125.00	9.00	12.00	125.00	+0.06 / -0.00			9.00	+0.50 / -0.00			33.13
W110120070WO	110.00	+0.00 / -0.13	110.00	120.00	7.00	10.00	120.00	+0.06 / -0.00			7.00	+0.50 / -0.00			32.21
W110126090WO	110.00	+0.00 / -0.13	110.00	126.00	9.00	12.00	126.00	+0.06 / -0.00			9.00	+0.50 / -0.00			33.13
W112128060WO*	112.00	+0.00 / -0.13	112.00	128.00	6.00	8.00	128.00	+0.06 / -0.00			6.00	+0.50 / -0.00			59.57
W112128090WO*	112.00	+0.00 / -0.13	112.00	128.00	9.00	12.00	128.00	+0.06 / -0.00			9.00	+0.50 / -0.00			59.57
W115129080WO*	115.00	+0.00 / -0.13	115.00	129.00	8.00	11.00	129.00	+0.06 / -0.00			8.00	+0.50 / -0.00			59.57
W115131090WO	115.00	+0.00 / -0.13	115.00	131.00	9.00	12.00	131.00	+0.06 / -0.00			9.00	+0.50 / -0.00			37.70
W118134090WO*	118.00	+0.00 / -0.13	118.00	134.00	9.00	12.00	134.00	+0.06 / -0.00			9.00	+0.50 / -0.00			43.96
W120130070WO	120.00	+0.00 / -0.13	120.00	130.00	7.00	10.00	130.00	+0.06 / -0.00			7.00	+0.50 / -0.00			39.13
W120136090WO	120.00	+0.00 / -0.13	120.00	136.00	9.00	12.00	136.00	+0.06 / -0.00			9.00	+0.50 / -0.00			59.57
W120160170WO*	120.70	+0.00 / -0.13	120.70	160.00	17.00	20.00	160.00	+0.06 / -0.00			17.00	+0.50 / -0.00			46.17
W125140090WO	125.00	+0.00 / -0.13	125.00	140.00	9.00	12.00	140.00	+0.06 / -0.00			9.00	+0.50 / -0.00			43.96
W125141090WO	125.00	+0.00 / -0.13	125.00	141.00	9.00	12.00	141.00	+0.06 / -0.00			9.00	+0.50 / -0.00			56.98
W130146060WO*	130.00	+0.00 / -0.13	130.00	146.00	6.00	9.00	146.00	+0.06 / -0.00			6.00	+0.50 / -0.00			56.98
W130146090WO	130.00	+0.00 / -0.13	130.00	146.00	9.00	12.00	146.00	+0.06 / -0.00			9.00	+0.50 / -0.00			46.17
W132148090WO*	132.00	+0.00 / -0.13	132.00	148.00	9.00	12.00	148.00	+0.06 / -0.00			9.00	+0.50 / -0.00			62.21
W135155100WO*	135.00	+0.00 / -0.13	135.00	155.00	10.00	14.00	155.00	+0.06 / -0.00			10.00	+0.50 / -0.00			62.21
W140155090WO	140.00	+0.00 / -0.13	140.00	155.00	9.00	12.00	155.00	+0.06 / -0.00			9.00	+0.50 / -0.00			59.28
W140160100WO	140.00	+0.00 / -0.13	140.00	160.00	10.00	14.00	160.00	+0.06 / -0.00			10.00	+0.50 / -0.00			56.98
W145165100WO	145.00	+0.00 / -0.13	145.00	165.00	10.00	14.00	165.00	+0.06 / -0.00			10.00	+0.50 / -0.00			72.04
W150165090WO	150.00	+0.00 / -0.13	150.00	165.00	9.00	12.00	165.00	+0.06 / -0.00			9.00	+0.50 / -0.00			72.04

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WO SERIES - AU/STEEL

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W150170100WO	150.00	+0.00 / -0.13	150.00	170.00	10.00	14.00	170.00	+0.06 / -0.00			10.00	+0.50 / -0.00			62.21
W155175060WO*	155.00	+0.00 / -0.13	155.00	175.00	6.00	10.00	175.00	+0.06 / -0.00			6.00	+0.50 / -0.00			145.49
W155175100WO*	155.00	+0.00 / -0.13	155.00	175.00	10.00	14.00	175.00	+0.06 / -0.00			10.00	+0.50 / -0.00			145.49
W157177100WO*	157.00	+0.00 / -0.13	157.00	177.00	10.00	14.00	177.00	+0.06 / -0.00			10.00	+0.50 / -0.00			167.27
W160175090WO	160.00	+0.00 / -0.13	160.00	175.00	9.00	12.00	175.00	+0.06 / -0.00			9.00	+0.50 / -0.00			145.49
W160180100WO	160.00	+0.00 / -0.13	160.00	180.00	10.00	14.00	180.00	+0.06 / -0.00			10.00	+0.50 / -0.00			72.04
W165185100WO*	165.00	+0.00 / -0.13	165.00	185.00	10.00	14.00	185.00	+0.07 / -0.00			10.00	+0.50 / -0.00			157.54
W170190100WO	170.00	+0.00 / -0.13	170.00	190.00	10.00	14.00	190.00	+0.07 / -0.00			10.00	+0.50 / -0.00			100.50
W175195100WO*	175.00	+0.00 / -0.13	175.00	195.00	10.00	14.00	195.00	+0.07 / -0.00			10.00	+0.50 / -0.00			192.73
W180205120WO	180.00	+0.00 / -0.13	180.00	205.00	12.00	17.00	205.00	+0.07 / -0.00			12.00	+0.50 / -0.00			103.47
W180205120WO/ORG*	180.00	+0.00 / -0.13	180.00	205.00	12.00	17.00	205.00	+0.07 / -0.00			12.00	+0.50 / -0.00			401.18
W185210120WO*	185.00	+0.00 / -0.13	185.00	210.00	12.00	17.00	210.00	+0.07 / -0.00			12.00	+0.50 / -0.00			249.24
W190215120WO*	190.00	+0.00 / -0.13	190.00	215.00	12.00	17.00	215.00	+0.07 / -0.00			12.00	+0.50 / -0.00			318.44
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			286.34
W200225120WO	200.00	+0.00 / -0.13	200.00	225.00	12.00	17.00	225.00	+0.07 / -0.00			12.00	+0.50 / -0.00			121.09
W200225120WO/ORG*	200.00	+0.00 / -0.13	200.00	225.00	12.00	17.00	225.00	+0.07 / -0.00			12.00	+0.50 / -0.00			411.36
W210235120WO*	210.00	+0.00 / -0.13	210.00	235.00	12.00	17.00	235.00	+0.07 / -0.00			12.00	+0.50 / -0.00			326.17
W212237120WO*	212.00	+0.00 / -0.13	212.00	237.00	12.00	17.00	237.00	+0.07 / -0.00			12.00	+0.50 / -0.00			342.85
W215240120WO*	215.00	+0.00 / -0.13	215.00	240.00	12.00	17.00	240.00	+0.07 / -0.00			12.00	+0.50 / -0.00			366.95
W220245120WO *	220.00	+0.00 / -0.13	220.00	245.00	12.00	17.00	245.00	+0.07 / -0.00			12.00	+0.50 / -0.00			149.61
W220245120WO/ORG*	220.00	+0.00 / -0.13	220.00	245.00	12.00	17.00	245.00	+0.07 / -0.00			12.00	+0.50 / -0.00			366.95
W224249120WO*	224.00	+0.00 / -0.13	224.00	249.00	12.00	17.00	249.00	+0.07 / -0.00			12.00	+0.50 / -0.00			390.10
W225250120WO*	225.00	+0.00 / -0.13	225.00	250.00	12.00	17.00	250.00	+0.07 / -0.00			12.00	+0.50 / -0.00			390.10
W230255120WO*	230.00	+0.00 / -0.13	230.00	255.00	12.00	17.00	255.00	+0.08 / -0.00			12.00	+0.50 / -0.00			418.83
W236261120WO*	236.00	+0.00 / -0.13	236.00	261.00	12.00	17.00	261.00	+0.08 / -0.00			12.00	+0.50 / -0.00			453.14
W240265120WO*	240.00	+0.00 / -0.13	240.00	265.00	12.00	17.00	265.00	+0.08 / -0.00			12.00	+0.50 / -0.00			453.14
W245270120WO*	245.00	+0.00 / -0.13	245.00	270.00	12.00	17.00	270.00	+0.08 / -0.00			12.00	+0.50 / -0.00			488.34
W250275120WO*	250.00	+0.00 / -0.13	250.00	275.00	12.00	17.00	275.00	+0.08 / -0.00			12.00	+0.50 / -0.00			488.34
W260280100WO*	260.00	+0.00 / -0.13	260.00	280.00	10.00	14.00	280.00	+0.08 / -0.00			10.00	+0.50 / -0.00			O/R
W260285120WO	260.00	+0.00 / -0.13	260.00	285.00	12.00	17.00	285.00	+0.08 / -0.00			12.00	+0.50 / -0.00			585.29
W265290120WO*	265.00	+0.00 / -0.13	265.00	290.00	12.00	17.00	290.00	+0.08 / -0.00			12.00	+0.50 / -0.00			O/R
W280310160WO	280.00	+0.00 / -0.13	280.00	310.00	16.00	22.00	310.00	+0.08 / -0.00			16.00	+0.50 / -0.00			604.23
W290320160WO*	290.00	+0.00 / -0.13	290.00	320.00	16.00	22.00	320.00	+0.09 / -0.00			16.00	+0.50 / -0.00			791.01
W300330160WO	300.00	+0.00 / -0.13	300.00	330.00	16.00	22.00	330.00	+0.09 / -0.00			16.00	+0.50 / -0.00			809.83
W310340160WO*	310.00	+0.00 / -0.13	310.00	340.00	16.00	22.00	340.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W320350160WO*	320.00	+0.00 / -0.13	320.00	350.00	16.00	22.00	350.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W330360160WO*	330.00	+0.00 / -0.13	330.00	360.00	16.00	22.00	360.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W340370160WO*	340.00	+0.00 / -0.13	340.00	370.00	16.00	22.00	370.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W345375160WO*	345.00	+0.00 / -0.13	345.00	375.00	16.00	22.00	375.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W350380160WO*	350.00	+0.00 / -0.13	350.00	380.00	16.00	22.00	380.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W355385160WO*	355.00	+0.00 / -0.13	355.00	385.00	16.00	22.00	385.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W360390160WO*	360.00	+0.00 / -0.13	360.00	390.00	16.00	22.00	390.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W365395160WO*	365.00	+0.00 / -0.13	365.00	395.00	16.00	22.00	395.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W370400160WO*	370.00	+0.00 / -0.13	370.00	400.00	16.00	22.00	400.00	+0.09 / -0.00			16.00	+0.50 / -0.00			O/R
W375405160WO*	375.00	+0.00 / -0.13	375.00	405.00	16.00	22.00	405.00	+0.10 / -0.00			16.00	+0.50 / -0.00			O/R
W380410160WO*	380.00	+0.00 / -0.13	380.00	410.00	16.00	22.00	410.00	+0.10 / -0.00			16.00	+0.50 / -0.00			O/R
W390420100WO*	390.00	+0.00 / -0.13	390.00	420.00	10.00	14.00	420.00	+0.10 / -0.00			10.00	+0.50 / -0.00			O/R
W390420160WO*	390.00	+0.00 / -0.13	390.00	420.00	16.00	22.00	420.00	+0.10 / -0.00			16.00	+0.50 / -0.00			O/R

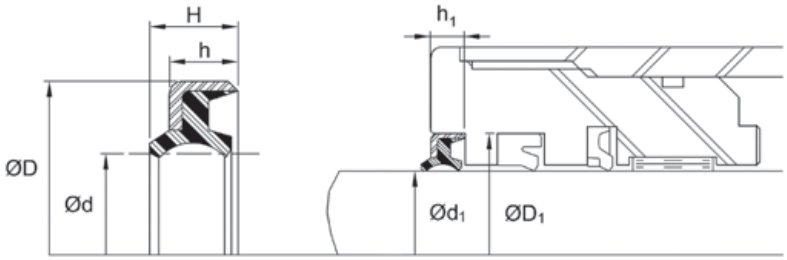
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WO SERIES - AU/STEEL

Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	$
W400430160WO*	400.00	+0.00 / -0.13	400.00	430.00	16.00	22.00	430.00	+0.10 / -0.00			16.00	+0.50 / -0.00			O/R
W425460180WO*	425.00	+0.00 / -0.13	425.00	460.00	18.00	24.00	460.00	+0.10 / -0.00			18.00	+0.50 / -0.00			O/R
W438463120WO*	438.00	+0.00 / -0.13	438.00	463.00	12.00	17.00	463.00	+0.10 / -0.00			12.00	+0.50 / -0.00			O/R
W445480160WO*	445.00	+0.00 / -0.13	445.00	480.00	16.00	22.00	480.00	+0.10 / -0.00			16.00	+0.50 / -0.00			O/R
W460490200WO*	460.00	+0.00 / -0.13	460.00	490.00	20.00	26.00	490.00	+0.10 / -0.00			20.00	+0.50 / -0.00			O/R
W468503180WO*	468.00	+0.00 / -0.13	468.00	503.00	18.00	24.00	503.00	+0.10 / -0.00			18.00	+0.50 / -0.00			O/R
W470505180WO*	470.00	+0.00 / -0.13	470.00	505.00	18.00	24.00	505.00	+0.10 / -0.00			18.00	+0.50 / -0.00			O/R
W475500120WO*	475.00	+0.00 / -0.13	475.00	500.00	12.00	17.00	500.00	+0.10 / -0.00			12.00	+0.50 / -0.00			O/R
W480510200WO*	480.00	+0.00 / -0.13	480.00	510.00	20.00	26.00	510.00	+0.10 / -0.00			20.00	+0.50 / -0.00			O/R
W540580200WO*	540.00	+0.00 / -0.13	540.00	580.00	20.00	26.00	580.00	+0.10 / -0.00			20.00	+0.50 / -0.00			O/R
W600640250WO*	600.00	+0.00 / -0.13	600.00	640.00	25.00	30.00	640.00	+0.10 / -0.00			25.00	+0.50 / -0.00			O/R
W650690180WO*	650.00	+0.00 / -0.13	650.00	690.00	18.00	24.00	690.00	+0.10 / -0.00			18.00	+0.50 / -0.00			O/R
W650700250WO*	650.00	+0.00 / -0.13	650.00	700.00	25.00	35.00	700.00	+0.10 / -0.00			25.00	+0.50 / -0.00			O/R
W720750180WO*	720.00	+0.00 / -0.13	720.00	750.00	18.00	24.00	750.00	+0.10 / -0.00			18.00	+0.50 / -0.00			O/R

WR - Rod Wipers

Polyurethane/Steel



Temperature: -22/212F [-30/100C] **Pressure: N/A**

Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	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			13.08
W014024050WR	14.00	+0.00 / -0.04	14.00	24.00	5.00	7.00	24.00	+0.03 / -0.00			5.30	+0.02 / -0.00			13.17
W016026050WR*	16.00	+0.00 / -0.04	16.00	26.00	5.00	7.00	26.00	+0.03 / -0.00			5.30	+0.02 / -0.00			13.27
W018030060WR	18.00	+0.00 / -0.04	18.00	30.00	6.00	9.00	30.00	+0.03 / -0.00			6.30	+0.02 / -0.00			13.46
W020032060WR	20.00	+0.00 / -0.04	20.00	32.00	6.00	9.00	32.00	+0.04 / -0.00			6.30	+0.02 / -0.00			13.70
W022032060WR	22.00	+0.00 / -0.04	22.00	32.00	6.00	9.00	32.00	+0.04 / -0.00			6.30	+0.02 / -0.00			13.78
W022034060WR	22.00	+0.00 / -0.04	22.00	34.00	6.00	9.00	34.00	+0.04 / -0.00			6.30	+0.02 / -0.00			14.07
W025037060WR	25.00	+0.00 / -0.04	25.00	37.00	6.00	9.00	37.00	+0.04 / -0.00			6.30	+0.02 / -0.00			7.12
W030042060WR	30.00	+0.00 / -0.04	30.00	42.00	6.00	9.00	42.00	+0.04 / -0.00			6.30	+0.02 / -0.00			15.96
W032044070WR	32.00	+0.00 / -0.04	32.00	44.00	7.00	9.00	44.00	+0.04 / -0.00			7.30	+0.02 / -0.00			14.83
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			15.20
W034046070WR*	34.00	+0.00 / -0.04	34.00	46.00	7.00	10.00	46.00	+0.04 / -0.00			7.30	+0.02 / -0.00			15.44
W035047070WR	35.00	+0.00 / -0.04	35.00	47.00	7.00	10.00	47.00	+0.04 / -0.00			7.30	+0.02 / -0.00			16.83
W038050070WR*	38.00	+0.00 / -0.04	38.00	50.00	7.00	10.00	50.00	+0.04 / -0.00			7.30	+0.02 / -0.00			18.38
W040052070WR	40.00	+0.00 / -0.05	40.00	52.00	7.00	10.00	52.00	+0.05 / -0.00			7.30	+0.02 / -0.00			20.57
W045057070WR	45.00	+0.00 / -0.05	45.00	57.00	7.00	10.00	57.00	+0.05 / -0.00			7.30	+0.02 / -0.00			22.32

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

WR SERIES - AU/STEEL

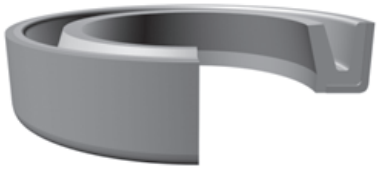
Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W050062070WR	50.00	+0.00 / -0.05	50.00	62.00	7.00	10.00	62.00	+0.05 / -0.00			7.30	+0.02 / -0.00			22.62
W050065060WR*	50.00	+0.00 / -0.05	50.00	65.00	6.00	9.00	65.00	+0.05 / -0.00			6.30	+0.02 / -0.00			23.65
W050072080WR	50.00	+0.00 / -0.05	50.00	72.00	8.00	11.00	72.00	+0.05 / -0.00			8.40	+0.02 / -0.00			24.47
W055069080WR	55.00	+0.00 / -0.05	55.00	69.00	8.00	11.00	69.00	+0.05 / -0.00			8.40	+0.02 / -0.00			26.93
W055070060WR*	55.00	+0.00 / -0.05	55.00	70.00	6.00	9.00	70.00	+0.05 / -0.00			6.30	+0.02 / -0.00			26.87
W060074080WR	60.00	+0.00 / -0.05	60.00	74.00	8.00	11.00	74.00	+0.05 / -0.00			8.40	+0.02 / -0.00			29.17
W060080100WR*	60.00	+0.00 / -0.05	60.00	80.00	10.00	14.00	80.00	+0.05 / -0.00			10.40	+0.02 / -0.00			27.65
W060082110WR*	60.00	+0.00 / -0.05	60.00	82.00	11.00	14.00	82.00	+0.05 / -0.00			11.40	+0.02 / -0.00			28.26
W065079080WR	65.00	+0.00 / -0.06	65.00	79.00	8.00	11.00	79.00	+0.05 / -0.00			8.40	+0.02 / -0.00			30.94
W070082070WR	70.00	+0.00 / -0.06	70.00	82.00	7.00	10.00	82.00	+0.05 / -0.00			7.30	+0.02 / -0.00			32.07
W070084080WR	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			33.20
W075089080WR	75.00	+0.00 / -0.09	75.00	89.00	8.00	11.00	89.00	+0.05 / -0.00			8.40	+0.02 / -0.00			35.70
W080094080WR	80.00	+0.00 / -0.09	80.00	94.00	8.00	11.00	94.00	+0.05 / -0.00			8.40	+0.02 / -0.00			42.09
W085099080WR	85.00	+0.00 / -0.09	85.00	99.00	8.00	11.00	99.00	+0.05 / -0.00			8.40	+0.02 / -0.00			47.77
W090104080WR	90.00	+0.00 / -0.09	90.00	104.00	8.00	11.00	104.00	+0.05 / -0.00			8.40	+0.02 / -0.00			51.64
W090110100WR*	90.00	+0.00 / -0.09	90.00	110.00	10.00	14.00	110.00	+0.05 / -0.00			10.40	+0.02 / -0.00			45.13
W095109080WR	95.00	+0.00 / -0.09	95.00	109.00	8.00	11.00	109.00	+0.05 / -0.00			8.40	+0.02 / -0.00			26.85
W100114080WR	100.00	+0.00 / -0.09	100.00	114.00	8.00	11.00	114.00	+0.05 / -0.00			8.40	+0.02 / -0.00			50.91
W100122100WR*	100.00	+0.00 / -0.09	100.00	122.00	10.00	14.00	122.00	+0.06 / -0.00			10.40	+0.02 / -0.00			48.50
W105121090WR	105.00	+0.00 / -0.13	105.00	121.00	9.00	12.00	121.00	+0.06 / -0.00			9.40	+0.02 / -0.00			52.40
W110126090WR	110.00	+0.00 / -0.13	110.00	126.00	9.00	12.00	126.00	+0.06 / -0.00			9.40	+0.02 / -0.00			55.55
W115131090WR	115.00	+0.00 / -0.13	115.00	131.00	9.00	12.00	131.00	+0.06 / -0.00			9.40	+0.02 / -0.00			54.38
W120136090WR	120.00	+0.00 / -0.13	120.00	136.00	9.00	12.00	136.00	+0.06 / -0.00			9.40	+0.02 / -0.00			60.79
W130146090WR	130.00	+0.00 / -0.13	130.00	146.00	9.00	12.00	146.00	+0.06 / -0.00			9.40	+0.02 / -0.00			66.53
W135150080WR*	135.00	+0.00 / -0.13	135.00	150.00	8.00	11.00	150.00	+0.06 / -0.00			8.40	+0.02 / -0.00			61.61
W135151090WR*	135.00	+0.00 / -0.13	135.00	151.00	9.00	12.00	151.00	+0.06 / -0.00			9.40	+0.02 / -0.00			61.81
W135155100WR*	135.00	+0.00 / -0.13	135.00	155.00	10.00	14.00	155.00	+0.06 / -0.00			10.40	+0.02 / -0.00			51.01
W140160100WR	140.00	+0.00 / -0.13	140.00	160.00	10.00	14.00	160.00	+0.06 / -0.00			10.40	+0.02 / -0.00			67.05
W140165140WR*	140.00	+0.00 / -0.13	140.00	165.00	14.00	20.00	165.00	+0.06 / -0.00			14.40	+0.02 / -0.00			179.45
W145165100WR*	145.00	+0.00 / -0.13	145.00	165.00	10.00	14.00	165.00	+0.06 / -0.00			10.40	+0.02 / -0.00			116.47
W150170100WR	150.00	+0.00 / -0.13	150.00	170.00	10.00	14.00	170.00	+0.06 / -0.00			10.40	+0.02 / -0.00			71.47
W155175100WR*	155.00	+0.00 / -0.13	155.00	175.00	10.00	14.00	175.00	+0.06 / -0.00			10.40	+0.02 / -0.00			72.26
W160180100WR	160.00	+0.00 / -0.13	160.00	180.00	10.00	14.00	180.00	+0.06 / -0.00			10.40	+0.02 / -0.00			88.14
W165185100WR	165.00	+0.00 / -0.13	165.00	185.00	10.00	14.00	185.00	+0.07 / -0.00			10.40	+0.02 / -0.00			56.87
W170190100WR	170.00	+0.00 / -0.13	170.00	190.00	10.00	14.00	190.00	+0.07 / -0.00			10.40	+0.02 / -0.00			98.29
W175195100WR*	175.00	+0.00 / -0.13	175.00	195.00	10.00	14.00	195.00	+0.07 / -0.00			10.40	+0.02 / -0.00			O/R
W180200100WR	180.00	+0.00 / -0.13	180.00	200.00	10.00	14.00	200.00	+0.07 / -0.00			10.40	+0.02 / -0.00			206.65
W180205120WR	180.00	+0.00 / -0.13	180.00	205.00	12.00	17.00	205.00	+0.07 / -0.00			12.40	+0.02 / -0.00			86.10
W190205090WR*	190.00	+0.00 / -0.13	190.00	205.00	9.00	12.00	205.00	+0.07 / -0.00			9.40	+0.02 / -0.00			104.34
W190215120WR*	190.00	+0.00 / -0.13	190.00	215.00	12.00	17.00	215.00	+0.07 / -0.00			12.40	+0.02 / -0.00			204.02
W200216080WR	200.00	+0.00 / -0.13	200.00	216.00	8.00	11.00	216.00	+0.07 / -0.00			8.40	+0.02 / -0.00			116.44
W200225120WR	200.00	+0.00 / -0.13	200.00	225.00	12.00	17.00	225.00	+0.07 / -0.00			12.40	+0.02 / -0.00			140.32
W210230120WR	210.00	+0.00 / -0.13	210.00	230.00	12.00	17.00	230.00	+0.07 / -0.00			12.40	+0.02 / -0.00			107.05
W210235120WR	210.00	+0.00 / -0.13	210.00	235.00	12.00	17.00	235.00	+0.07 / -0.00			12.40	+0.02 / -0.00			108.84
W215235100WR*	215.00	+0.00 / -0.13	215.00	235.00	10.00	14.00	235.00	+0.07 / -0.00			10.40	+0.02 / -0.00			O/R
W225250120WR*	225.00	+0.00 / -0.13	225.00	250.00	12.00	17.00	250.00	+0.07 / -0.00			12.40	+0.02 / -0.00			O/R
W230255120WR	230.00	+0.00 / -0.13	230.00	255.00	12.00	17.00	255.00	+0.08 / -0.00			12.40	+0.02 / -0.00			O/R
W240260100WR*	240.00	+0.00 / -0.13	240.00	260.00	10.00	14.00	260.00	+0.08 / -0.00			10.40	+0.02 / -0.00			710.54

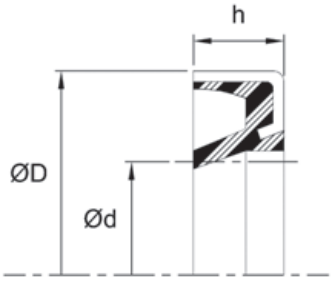
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

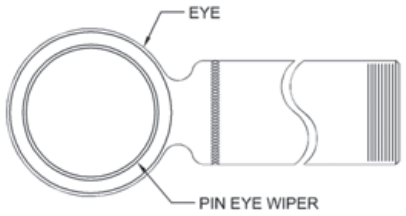
Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2 Tol.	h1	Tol.	H1 Tol.	$
W250275120WR	250.00	+0.00 / -0.13	250.00	275.00	12.00	17.00	275.00	+0.08 / -0.00		12.40	+0.02 / -0.00		O/R
W260285120WR	260.00	+0.00 / -0.13	260.00	285.00	12.00	17.00	285.00	+0.08 / -0.00		12.40	+0.02 / -0.00		456.63
W265290120WR*	265.00	+0.00 / -0.13	265.00	290.00	12.00	17.00	290.00	+0.08 / -0.00		12.40	+0.02 / -0.00		O/R
W280310160WR*	280.00	+0.00 / -0.13	280.00	310.00	16.00	22.00	310.00	+0.08 / -0.00		16.40	+0.02 / -0.00		O/R

WS - Pin Wipers

Polyurethane/Steel







Temperature: -22/212F [-30/100C] **Pressure: N/A**

Ref.Number	Pin diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2 Tol.	h1	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		7.11
W020028026WS	20.00	+0.00 / -0.04	20.00	28.00	2.60		28.00	+0.03 / -0.00		2.90	+0.02 / -0.00		8.02
W025035040WS	25.00	+0.00 / -0.04	25.00	35.00	4.00		35.00	+0.04 / -0.00		4.30	+0.02 / -0.00		8.33
W030045040WS	30.00	+0.00 / -0.04	30.00	45.00	4.00		45.00	+0.04 / -0.00		4.30	+0.02 / -0.00		9.04
W035045040WS	35.00	+0.00 / -0.04	35.00	45.00	4.00		45.00	+0.04 / -0.00		4.30	+0.02 / -0.00		9.04
W040050031WS	40.00	+0.00 / -0.05	40.00	50.00	3.18		50.00	+0.04 / -0.00		3.48	+0.02 / -0.00		8.49
W040050040WS	40.00	+0.00 / -0.05	40.00	50.00	4.00		50.00	+0.04 / -0.00		4.30	+0.02 / -0.00		8.32
W040050050WS	40.00	+0.00 / -0.05	40.00	50.00	5.00		50.00	+0.04 / -0.00		5.30	+0.02 / -0.00		9.90
W040050070WS	40.00	+0.00 / -0.05	40.00	50.00	7.00		50.00	+0.04 / -0.00		7.30	+0.02 / -0.00		9.90
W040052070WS	40.00	+0.00 / -0.05	40.00	52.00	7.00		52.00	+0.05 / -0.00		7.30	+0.02 / -0.00		10.30
W045055031WS	45.00	+0.00 / -0.05	45.00	55.00	3.18		55.00	+0.05 / -0.00		3.48	+0.02 / -0.00		7.39
W045055040WS	45.00	+0.00 / -0.05	45.00	55.00	4.00		55.00	+0.05 / -0.00		4.30	+0.02 / -0.00		10.69
W045055045WS*	45.00	+0.00 / -0.05	45.00	55.00	4.50		55.00	+0.05 / -0.00		4.80	+0.02 / -0.00		10.69
W045055060WS	45.00	+0.00 / -0.05	45.00	55.00	6.00		55.00	+0.05 / -0.00		6.30	+0.02 / -0.00		10.69
W045057070WS	45.00	+0.00 / -0.05	45.00	57.00	7.00		57.00	+0.05 / -0.00		7.30	+0.02 / -0.00		9.30
W045060050WS	45.00	+0.00 / -0.05	45.00	60.00	5.00		60.00	+0.05 / -0.00		5.30	+0.02 / -0.00		11.00
W050060045WS	50.00	+0.00 / -0.05	50.00	60.00	4.50		60.00	+0.05 / -0.00		4.80	+0.02 / -0.00		11.16
W050060050WS	50.00	+0.00 / -0.05	50.00	60.00	5.00		60.00	+0.05 / -0.00		5.30	+0.02 / -0.00		11.16
W050060060WS	50.00	+0.00 / -0.05	50.00	60.00	6.00		60.00	+0.05 / -0.00		6.30	+0.02 / -0.00		11.16
W050060070WS	50.00	+0.00 / -0.05	50.00	60.00	7.00		60.00	+0.05 / -0.00		7.30	+0.02 / -0.00		11.16
W050062070WS	50.00	+0.00 / -0.05	50.00	62.00	7.00		62.00	+0.05 / -0.00		7.30	+0.02 / -0.00		11.71
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		11.24
W050065040WS*	50.00	+0.00 / -0.05	50.00	65.00	4.00		65.00	+0.05 / -0.00		4.30	+0.02 / -0.00		11.24
W050065050WS	50.00	+0.00 / -0.05	50.00	65.00	5.00		65.00	+0.05 / -0.00		5.30	+0.02 / -0.00		11.55
W050065060WS	50.00	+0.00 / -0.05	50.00	65.00	6.00		65.00	+0.05 / -0.00		6.30	+0.02 / -0.00		11.55
W050065075WS	50.00	+0.00 / -0.05	50.00	65.00	7.50		65.00	+0.05 / -0.00		7.80	+0.02 / -0.00		12.08

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

WS SERIES - AU/STEEL

Ref.Number	Pin diameter		Nominal Seal Dimensions				Housing Dimensions						$
		Tol.	d	D	h	H	D1	Tol.	D2 Tol.	h1	Tol.	H1 Tol.	
W050065090WS	50.00	+0.00 / -0.05	50.00	65.00	9.00		65.00	+0.05 / -0.00		9.40	+0.02 / -0.00		13.60
W055065031WS	55.00	+0.00 / -0.05	55.00	65.00	3.18		65.00	+0.05 / -0.00		3.48	+0.02 / -0.00		8.87
W055065045WS	55.00	+0.00 / -0.05	55.00	65.00	4.50		65.00	+0.05 / -0.00		4.80	+0.02 / -0.00		12.93
W055068060WS	55.00	+0.00 / -0.05	55.00	68.00	6.00		68.00	+0.05 / -0.00		6.30	+0.02 / -0.00		12.97
W055069080WS	55.00	+0.00 / -0.05	55.00	69.00	8.00		69.00	+0.05 / -0.00		8.40	+0.02 / -0.00		12.60
W055070050WS	55.00	+0.00 / -0.05	55.00	70.00	5.00		70.00	+0.05 / -0.00		5.30	+0.02 / -0.00		13.13
W055070060WS	55.00	+0.00 / -0.05	55.00	70.00	6.00		70.00	+0.05 / -0.00		6.30	+0.02 / -0.00		13.13
W056068070WS	56.00	+0.00 / -0.05	56.00	68.00	7.00		68.00	+0.05 / -0.00		7.30	+0.02 / -0.00		12.28
W056070075WS	56.00	+0.00 / -0.05	56.00	70.00	7.50		70.00	+0.05 / -0.00		7.80	+0.02 / -0.00		13.99
W056071090WS	56.00	+0.00 / -0.05	56.00	71.00	9.00		71.00	+0.05 / -0.00		9.40	+0.02 / -0.00		14.15
W060070070WS	60.00	+0.00 / -0.05	60.00	70.00	7.00		70.00	+0.05 / -0.00		7.00	+0.02 / -0.00		11.71
W060073080WS	60.00	+0.00 / -0.05	60.00	73.00	8.00		73.00	+0.05 / -0.00		8.40	+0.02 / -0.00		14.26
W060074080WS	60.00	+0.00 / -0.05	60.00	74.00	8.00		74.00	+0.05 / -0.00		8.40	+0.02 / -0.00		13.16
W060075040WS	60.00	+0.00 / -0.05	60.00	75.00	4.00		75.00	+0.05 / -0.00		4.30	+0.02 / -0.00		13.52
W060075050WS	60.00	+0.00 / -0.05	60.00	75.00	5.00		75.00	+0.05 / -0.00		5.30	+0.02 / -0.00		13.52
W060075060WS	60.00	+0.00 / -0.05	60.00	75.00	6.00		75.00	+0.05 / -0.00		6.30	+0.02 / -0.00		13.52
W060075075WS	60.00	+0.00 / -0.05	60.00	75.00	7.50		75.00	+0.05 / -0.00		7.80	+0.02 / -0.00		12.28
W060075080WS	60.00	+0.00 / -0.05	60.00	75.00	8.00		75.00	+0.05 / -0.00		8.40	+0.02 / -0.00		12.55
W063078090WS	63.00	+0.00 / -0.06	63.00	78.00	9.00		78.00	+0.05 / -0.00		9.40	+0.02 / -0.00		18.31
W063083100WS	63.00	+0.00 / -0.06	63.00	83.00	10.00		83.00	+0.05 / -0.00		10.40	+0.02 / -0.00		19.15
W065075070WS	65.00	+0.00 / -0.06	65.00	75.00	7.00		75.00	+0.05 / -0.00		7.00	+0.02 / -0.00		12.10
W065079080WS	65.00	+0.00 / -0.06	65.00	79.00	8.00		79.00	+0.05 / -0.00		8.40	+0.02 / -0.00		12.61
W065080050WS	65.00	+0.00 / -0.06	65.00	80.00	5.00		80.00	+0.05 / -0.00		5.30	+0.02 / -0.00		24.52
W065080080WS	65.00	+0.00 / -0.06	65.00	80.00	8.00		80.00	+0.05 / -0.00		8.40	+0.02 / -0.00		15.02
W070080040WS	70.00	+0.00 / -0.06	70.00	80.00	4.00		80.00	+0.05 / -0.00		4.30	+0.02 / -0.00		10.47
W070080070WS	70.00	+0.00 / -0.06	70.00	80.00	7.00		80.00	+0.05 / -0.00		7.00	+0.02 / -0.00		12.42
W070084080WS	70.00	+0.00 / -0.06	70.00	84.00	8.00		84.00	+0.05 / -0.00		8.40	+0.02 / -0.00		13.04
W070085050WS	70.00	+0.00 / -0.06	70.00	85.00	5.00		85.00	+0.05 / -0.00		5.30	+0.02 / -0.00		15.80
W070085070WS	70.00	+0.00 / -0.06	70.00	85.00	7.00		85.00	+0.05 / -0.00		7.30	+0.02 / -0.00		24.10
W070085075WS	70.00	+0.00 / -0.06	70.00	85.00	7.50		85.00	+0.05 / -0.00		7.80	+0.02 / -0.00		24.10
W070085080WS	70.00	+0.00 / -0.06	70.00	85.00	8.00		85.00	+0.05 / -0.00		8.40	+0.02 / -0.00		31.42
W070090100WS*	70.00	+0.00 / -0.06	70.00	90.00	10.00		90.00	+0.05 / -0.00		10.40	+0.02 / -0.00		71.12
W071086050WS	71.00	+0.00 / -0.06	71.00	86.00	5.00		86.00	+0.05 / -0.00		5.30	+0.02 / -0.00		15.96
W071086060WS	71.00	+0.00 / -0.06	71.00	86.00	6.00		86.00	+0.05 / -0.00		6.30	+0.02 / -0.00		15.96
W075089080WS	75.00	+0.00 / -0.06	75.00	89.00	8.00		89.00	+0.05 / -0.00		8.40	+0.02 / -0.00		13.90
W075090050WS*	75.00	+0.00 / -0.06	75.00	90.00	5.00		90.00	+0.05 / -0.00		5.30	+0.02 / -0.00		16.43
W075090060WS	75.00	+0.00 / -0.06	75.00	90.00	6.00		90.00	+0.05 / -0.00		6.30	+0.02 / -0.00		16.43
W075090080WS	75.00	+0.00 / -0.06	75.00	90.00	8.00		90.00	+0.05 / -0.00		8.40	+0.02 / -0.00		16.98
W080090045WS	80.00	+0.00 / -0.09	80.00	90.00	4.50		90.00	+0.05 / -0.00		4.80	+0.02 / -0.00		17.53
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		13.52
W080094080WS	80.00	+0.00 / -0.09	80.00	94.00	8.00		95.00	+0.05 / -0.00		8.40	+0.02 / -0.00		14.77
W080095050WS	80.00	+0.00 / -0.09	80.00	95.00	5.00		95.00	+0.05 / -0.00		5.30	+0.02 / -0.00		18.08
W080095060WS	80.00	+0.00 / -0.09	80.00	95.00	6.00		95.00	+0.05 / -0.00		6.30	+0.02 / -0.00		18.08
W080095080WS	80.00	+0.00 / -0.09	80.00	95.00	8.00		95.00	+0.05 / -0.00		8.40	+0.02 / -0.00		18.08
W080100100WS	80.00	+0.00 / -0.09	80.00	100.00	10.00		100.00	+0.05 / -0.00		10.40	+0.02 / -0.00		62.57
W085095050WS	85.00	+0.00 / -0.09	85.00	95.00	5.00		95.00	+0.05 / -0.00		5.30	+0.02 / -0.00		18.55
W085095070WS*	85.00	+0.00 / -0.09	85.00	95.00	7.00		95.00	+0.05 / -0.00		7.00	+0.02 / -0.00		18.55
W085099080WS	85.00	+0.00 / -0.09	85.00	99.00	8.00		99.00	+0.05 / -0.00		8.40	+0.02 / -0.00		15.59

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

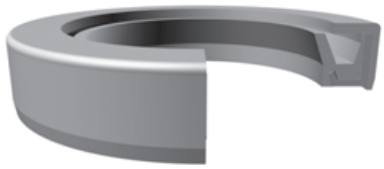
WS SERIES - AU/STEEL

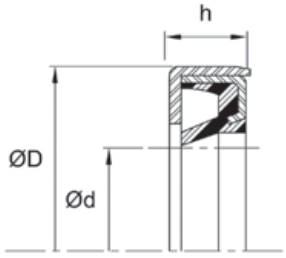
Ref.Number	Pin diameter		Nominal Seal Dimensions				Housing Dimensions						$
		Tol.	d	D	h	H	D1	Tol.	D2 Tol.	h1	Tol.	H1 Tol.	
W085100080WS	85.00	+0.00 / -0.09	85.00	100.00	8.00		100.00	+0.05 / -0.00		8.40	+0.02 / -0.00		18.39
W090100070WS	90.00	+0.00 / -0.09	90.00	100.00	7.00		100.00	+0.05 / -0.00		7.30	+0.02 / -0.00		13.83
W090104080WS	90.00	+0.00 / -0.09	90.00	104.00	8.00		104.00	+0.05 / -0.00		8.40	+0.02 / -0.00		16.43
W090105060WS	90.00	+0.00 / -0.09	90.00	105.00	6.00		105.00	+0.05 / -0.00		6.30	+0.02 / -0.00		19.96
W090105080WS	90.00	+0.00 / -0.09	90.00	105.00	8.00		105.00	+0.05 / -0.00		8.40	+0.02 / -0.00		19.96
W090106080WS	90.00	+0.00 / -0.09	90.00	106.00	8.00		106.00	+0.05 / -0.00		8.40	+0.02 / -0.00		20.91
W090110100WS	90.00	+0.00 / -0.09	90.00	110.00	10.00		110.00	+0.05 / -0.00		10.40	+0.02 / -0.00		21.38
W095109080WS	95.00	+0.00 / -0.09	95.00	109.00	8.00		109.00	+0.05 / -0.00		8.40	+0.02 / -0.00		21.99
W095110060WS*	95.00	+0.00 / -0.09	95.00	110.00	6.00		110.00	+0.05 / -0.00		6.30	+0.02 / -0.00		20.38
W095110080WS	95.00	+0.00 / -0.09	95.00	110.00	8.00		110.00	+0.05 / -0.00		8.40	+0.02 / -0.00		16.92
W100110045WS*	100.00	+0.00 / -0.09	100.00	110.00	4.50		110.00	+0.05 / -0.00		4.80	+0.02 / -0.00		16.92
W100110070WS	100.00	+0.00 / -0.09	100.00	110.00	7.00		110.00	+0.05 / -0.00		7.30	+0.02 / -0.00		34.44
W100114080WS	100.00	+0.00 / -0.09	100.00	114.00	8.00		114.00	+0.05 / -0.00		8.40	+0.02 / -0.00		18.13
W100115060WS	100.00	+0.00 / -0.09	100.00	115.00	6.00		115.00	+0.05 / -0.00		6.30	+0.02 / -0.00		24.05
W100115070WS	100.00	+0.00 / -0.09	100.00	115.00	7.00		115.00	+0.05 / -0.00		7.30	+0.02 / -0.00		21.73
W100116080WS	100.00	+0.00 / -0.09	100.00	116.00	8.00		116.00	+0.05 / -0.00		8.40	+0.02 / -0.00		24.92
W100120040WS	100.00	+0.00 / -0.09	100.00	120.00	4.00		120.00	+0.05 / -0.00		4.30	+0.02 / -0.00		24.92
W100120100WS	100.00	+0.00 / -0.09	100.00	120.00	10.00		120.00	+0.05 / -0.00		10.40	+0.02 / -0.00		25.07
W100125040WS*	100.00	+0.00 / -0.09	100.00	125.00	4.00		125.00	+0.06 / -0.00		4.30	+0.02 / -0.00		25.07
W105120070WS	105.00	+0.00 / -0.13	105.00	120.00	7.00		120.00	+0.05 / -0.00		7.30	+0.02 / -0.00		26.02
W105120080WS	105.00	+0.00 / -0.13	105.00	120.00	8.00		120.00	+0.05 / -0.00		8.40	+0.02 / -0.00		25.99
W105121090WS*	105.00	+0.00 / -0.13	105.00	121.00	9.00		121.00	+0.06 / -0.00		9.40	+0.02 / -0.00		18.97
W110125040WS	110.00	+0.00 / -0.13	110.00	125.00	4.00		125.00	+0.06 / -0.00		4.30	+0.02 / -0.00		26.02
W110125080WS	110.00	+0.00 / -0.13	110.00	125.00	8.00		125.00	+0.06 / -0.00		8.40	+0.02 / -0.00		26.72
W110125090WS	110.00	+0.00 / -0.13	110.00	125.00	9.00		125.00	+0.06 / -0.00		9.40	+0.02 / -0.00		26.72
W110126090WS	110.00	+0.00 / -0.13	110.00	126.00	9.00		126.00	+0.06 / -0.00		9.40	+0.02 / -0.00		21.44
W110130100WS	110.00	+0.00 / -0.13	110.00	130.00	10.00		130.00	+0.06 / -0.00		10.40	+0.02 / -0.00		31.71
W115131090WS*	115.00	+0.00 / -0.13	115.00	131.00	9.00		131.00	+0.06 / -0.00		9.40	+0.02 / -0.00		33.54
W120130070WS	120.00	+0.00 / -0.13	120.00	130.00	7.00		130.00	+0.06 / -0.00		7.30	+0.02 / -0.00		29.02
W120135080WS	120.00	+0.00 / -0.13	120.00	135.00	8.00		135.00	+0.06 / -0.00		8.40	+0.02 / -0.00		29.45
W120136090WS	120.00	+0.00 / -0.13	120.00	136.00	9.00		136.00	+0.06 / -0.00		9.40	+0.02 / -0.00		35.48
W120150120WS	120.00	+0.00 / -0.13	120.00	150.00	12.00		150.00	+0.06 / -0.00		12.40	+0.02 / -0.00		41.17
W125141090WS*	125.00	+0.00 / -0.13	125.00	141.00	9.00		141.00	+0.06 / -0.00		9.40	+0.02 / -0.00		39.07
W130146090WS	130.00	+0.00 / -0.13	130.00	146.00	9.00		146.00	+0.06 / -0.00		9.40	+0.02 / -0.00		31.36
W130150040WS*	130.00	+0.00 / -0.13	130.00	150.00	4.00		150.00	+0.06 / -0.00		4.30	+0.02 / -0.00		32.54
W130150090WS	130.00	+0.00 / -0.13	130.00	150.00	9.00		150.00	+0.06 / -0.00		9.40	+0.02 / -0.00		41.58
W130160120WS*	130.00	+0.00 / -0.13	130.00	160.00	12.00		160.00	+0.06 / -0.00		12.40	+0.02 / -0.00		58.49
W140155080WS	140.00	+0.00 / -0.13	140.00	155.00	8.00		155.00	+0.06 / -0.00		8.40	+0.02 / -0.00		51.34
W140160100WS	140.00	+0.00 / -0.13	140.00	160.00	10.00		160.00	+0.06 / -0.00		10.40	+0.02 / -0.00		34.18
W150170100WS*	150.00	+0.00 / -0.13	150.00	170.00	10.00		170.00	+0.06 / -0.00		10.40	+0.02 / -0.00		59.63
W180205120WS*	180.00	+0.00 / -0.13	180.00	205.00	12.00		205.00	+0.07 / -0.00		12.40	+0.02 / -0.00		107.27
W180210130WS*	180.00	+0.00 / -0.13	180.00	210.00	13.00		210.00	+0.07 / -0.00		13.40	+0.02 / -0.00		247.53
W190202080WS*	190.00	+0.00 / -0.13	190.00	202.00	8.00		202.00	+0.07 / -0.00		8.40	+0.02 / -0.00		114.55
W190210100WS	190.00	+0.00 / -0.13	190.00	210.00	10.00		210.00	+0.07 / -0.00		10.40	+0.02 / -0.00		89.22
W200225120WS	200.00	+0.00 / -0.13	200.00	225.00	12.00		225.00	+0.07 / -0.00		12.40	+0.02 / -0.00		O/R
W280310160WS*	280.00	+0.00 / -0.13	280.00	310.00	16.00		310.00	+0.08 / -0.00		16.40	+0.02 / -0.00		688.68

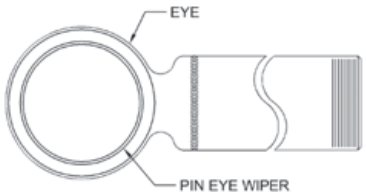
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WT - Pin Wipers

Polyurethane/Steel







Temperature: -22/212F [-30/100C] **Pressure: N/A**

Ref.Number	Pin diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	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			14.66
W035045060WT	35.00	+0.00 / -0.04	35.00	45.00	6.00		45.00	+0.04 / -0.00			6.30	+0.02 / -0.00			14.66
W038048040WT*	38.00	+0.00 / -0.04	38.00	48.00	4.00		48.00	+0.04 / -0.00			4.30	+0.02 / -0.00			14.66
W040050040WT	40.00	+0.00 / -0.05	40.00	50.00	4.00		50.00	+0.04 / -0.00			4.30	+0.02 / -0.00			14.66
W040050060WT	40.00	+0.00 / -0.05	40.00	50.00	6.00		50.00	+0.04 / -0.00			6.30	+0.02 / -0.00			14.66
W045055040WT	45.00	+0.00 / -0.05	45.00	55.00	4.00		55.00	+0.05 / -0.00			4.30	+0.02 / -0.00			15.24
W045055060WT*	45.00	+0.00 / -0.05	45.00	55.00	6.00		55.00	+0.05 / -0.00			6.30	+0.02 / -0.00			16.17
W050060040WT	50.00	+0.00 / -0.05	50.00	60.00	4.00		60.00	+0.05 / -0.00			4.30	+0.02 / -0.00			17.12
W050060050WT	50.00	+0.00 / -0.05	50.00	60.00	5.00		60.00	+0.05 / -0.00			5.30	+0.02 / -0.00			17.53
W050060060WT	50.00	+0.00 / -0.05	50.00	60.00	6.00		60.00	+0.05 / -0.00			6.30	+0.02 / -0.00			18.27
W050065060WT*	50.00	+0.00 / -0.05	50.00	65.00	6.00		65.00	+0.05 / -0.00			6.30	+0.02 / -0.00			19.93
W055065060WT	55.00	+0.00 / -0.05	55.00	65.00	6.00		65.00	+0.05 / -0.00			6.30	+0.02 / -0.00			19.93
W055068040WT	55.00	+0.00 / -0.05	55.00	68.00	4.00		68.00	+0.05 / -0.00			4.30	+0.02 / -0.00			19.36
W055070060WT	55.00	+0.00 / -0.05	55.00	70.00	6.00		70.00	+0.05 / -0.00			6.30	+0.02 / -0.00			21.99
W055075060WT*	55.00	+0.00 / -0.05	55.00	75.00	6.00		75.00	+0.05 / -0.00			6.30	+0.02 / -0.00			21.99
W060070060WT	60.00	+0.00 / -0.05	60.00	70.00	6.00		70.00	+0.05 / -0.00			6.30	+0.02 / -0.00			21.99
W060075040WT	60.00	+0.00 / -0.05	60.00	75.00	4.00		75.00	+0.05 / -0.00			4.30	+0.02 / -0.00			21.99
W060075060WT	60.00	+0.00 / -0.05	60.00	75.00	6.00		75.00	+0.05 / -0.00			6.30	+0.02 / -0.00			22.96
W065080040WT	65.00	+0.00 / -0.06	65.00	80.00	4.00		80.00	+0.05 / -0.00			4.30	+0.02 / -0.00			24.11
W065080060WT	65.00	+0.00 / -0.06	65.00	80.00	6.00		80.00	+0.05 / -0.00			6.30	+0.02 / -0.00			25.77
W065080080WT	65.00	+0.00 / -0.06	65.00	80.00	8.00		80.00	+0.05 / -0.00			8.40	+0.02 / -0.00			28.06
W065085050WT	65.00	+0.00 / -0.06	65.00	85.00	5.00		85.00	+0.05 / -0.00			5.30	+0.02 / -0.00			26.75
W065085060WT*	65.00	+0.00 / -0.06	65.00	85.00	6.00		85.00	+0.05 / -0.00			6.30	+0.02 / -0.00			28.06
W070080060WT	70.00	+0.00 / -0.06	70.00	80.00	6.00		80.00	+0.05 / -0.00			6.30	+0.02 / -0.00			25.77
W070085040WT	70.00	+0.00 / -0.06	70.00	85.00	4.00		85.00	+0.05 / -0.00			4.30	+0.02 / -0.00			24.11
W070085060WT	70.00	+0.00 / -0.06	70.00	85.00	6.00		85.00	+0.05 / -0.00			6.30	+0.02 / -0.00			27.84
W070090095WT*	70.00	+0.00 / -0.06	70.00	90.00	9.50		90.00	+0.05 / -0.00			9.90	+0.02 / -0.00			31.44
W070095095WT*	70.00	+0.00 / -0.06	70.00	95.00	9.50		95.00	+0.05 / -0.00			9.90	+0.02 / -0.00			33.68
W075090050WT	75.00	+0.00 / -0.09	75.00	90.00	5.00		90.00	+0.05 / -0.00			5.30	+0.02 / -0.00			28.97
W075090095WT*	75.00	+0.00 / -0.09	75.00	90.00	9.50		90.00	+0.05 / -0.00			9.90	+0.02 / -0.00			34.99
W075095070WT*	75.00	+0.00 / -0.09	75.00	95.00	7.00		95.00	+0.05 / -0.00			7.30	+0.02 / -0.00			33.68
W075095095WT	75.00	+0.00 / -0.09	75.00	95.00	9.50		95.00	+0.05 / -0.00			9.90	+0.02 / -0.00			37.45
W080095040WT	80.00	+0.00 / -0.09	80.00	95.00	4.00		95.00	+0.05 / -0.00			4.30	+0.02 / -0.00			31.44
W080095060WT	80.00	+0.00 / -0.09	80.00	95.00	6.00		95.00	+0.05 / -0.00			6.30	+0.02 / -0.00			33.33
W080100060WT*	80.00	+0.00 / -0.09	80.00	100.00	6.00		100.00	+0.05 / -0.00			6.30	+0.02 / -0.00			34.42
W085100040WT	85.00	+0.00 / -0.09	85.00	100.00	4.00		100.00	+0.05 / -0.00			4.30	+0.02 / -0.00			15.18
W090105040WT	90.00	+0.00 / -0.09	90.00	105.00	4.00		105.00	+0.05 / -0.00			4.30	+0.02 / -0.00			36.71
W090105060WT	90.00	+0.00 / -0.09	90.00	105.00	6.00		105.00	+0.05 / -0.00			6.30	+0.02 / -0.00			36.71

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

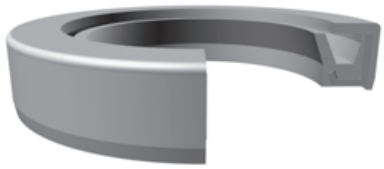
WT SERIES - AU/STEEL

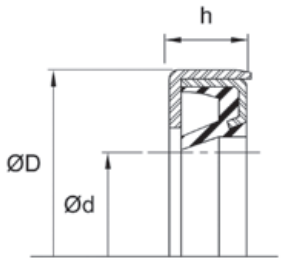
Ref.Number	Pin diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W090110080WT	90.00	+0.00 / -0.09	90.00	110.00	8.00		110.00	+0.05 / -0.00			8.40	+0.02 / -0.00			36.71
W090110095WT	90.00	+0.00 / -0.09	90.00	110.00	9.50		110.00	+0.05 / -0.00			9.90	+0.02 / -0.00			46.27
W095110080WT	95.00	+0.00 / -0.09	95.00	110.00	8.00		110.00	+0.05 / -0.00			8.40	+0.02 / -0.00			46.27
W095110095WT*	95.00	+0.00 / -0.09	95.00	110.00	9.50		110.00	+0.05 / -0.00			9.90	+0.02 / -0.00			46.27
W095115095WT	95.00	+0.00 / -0.09	95.00	115.00	9.50		115.00	+0.05 / -0.00			9.90	+0.02 / -0.00			49.31
W100115040WT	100.00	+0.00 / -0.09	100.00	115.00	4.00		115.00	+0.05 / -0.00			4.30	+0.02 / -0.00			35.73
W100115080WT	100.00	+0.00 / -0.09	100.00	115.00	8.00		115.00	+0.05 / -0.00			8.40	+0.02 / -0.00			45.93
W100120060WT*	100.00	+0.00 / -0.09	100.00	120.00	6.00		120.00	+0.05 / -0.00			6.30	+0.02 / -0.00			45.93
W100120080WT	100.00	+0.00 / -0.09	100.00	120.00	8.00		120.00	+0.05 / -0.00			8.40	+0.02 / -0.00			47.99
W100120095WT	100.00	+0.00 / -0.09	100.00	120.00	9.50		120.00	+0.05 / -0.00			9.90	+0.02 / -0.00			52.28
W100130080WT	100.00	+0.00 / -0.09	100.00	130.00	8.00		130.00	+0.06 / -0.00			8.40	+0.02 / -0.00			51.54
W110125080WT	110.00	+0.00 / -0.13	110.00	125.00	8.00		125.00	+0.06 / -0.00			8.40	+0.02 / -0.00			51.54
W110125095WT	110.00	+0.00 / -0.13	110.00	125.00	9.50		125.00	+0.06 / -0.00			9.90	+0.02 / -0.00			55.49
W110130080WT	110.00	+0.00 / -0.13	110.00	130.00	8.00		130.00	+0.06 / -0.00			8.40	+0.02 / -0.00			57.38
W110130095WT	110.00	+0.00 / -0.13	110.00	130.00	9.50		130.00	+0.06 / -0.00			9.90	+0.02 / -0.00			58.70
W110135080WT*	110.00	+0.00 / -0.13	110.00	135.00	8.00		135.00	+0.06 / -0.00			8.40	+0.02 / -0.00			58.70
W110140080WT*	110.00	+0.00 / -0.13	110.00	140.00	8.00		140.00	+0.06 / -0.00			8.40	+0.02 / -0.00			62.65
W120135080WT	120.00	+0.00 / -0.13	120.00	135.00	8.00		135.00	+0.06 / -0.00			8.40	+0.02 / -0.00			57.38
W120135095WT*	120.00	+0.00 / -0.13	120.00	135.00	9.50		135.00	+0.06 / -0.00			9.90	+0.02 / -0.00			62.07
W120140080WT	120.00	+0.00 / -0.13	120.00	140.00	8.00		140.00	+0.06 / -0.00			8.40	+0.02 / -0.00			62.07
W120140095WT	120.00	+0.00 / -0.13	120.00	140.00	9.50		140.00	+0.06 / -0.00			9.90	+0.02 / -0.00			65.69
W125140040WT	125.00	+0.00 / -0.13	125.00	140.00	4.00		140.00	+0.06 / -0.00			4.30	+0.02 / -0.00			65.69
W125140080WT*	125.00	+0.00 / -0.13	125.00	140.00	8.00		140.00	+0.06 / -0.00			8.40	+0.02 / -0.00			65.69
W130155095WT	130.00	+0.00 / -0.13	130.00	155.00	9.50		155.00	+0.06 / -0.00			9.90	+0.02 / -0.00			76.39
W140155080WT	140.00	+0.00 / -0.13	140.00	155.00	8.00		155.00	+0.06 / -0.00			8.40	+0.02 / -0.00			66.83
W160180095WT*	160.00	+0.00 / -0.13	160.00	180.00	9.50		180.00	+0.06 / -0.00			9.90	+0.02 / -0.00			117.62
W190220080WT*	190.00	+0.00 / -0.13	190.00	220.00	8.00		220.00	+0.07 / -0.00			8.40	+0.02 / -0.00			146.03

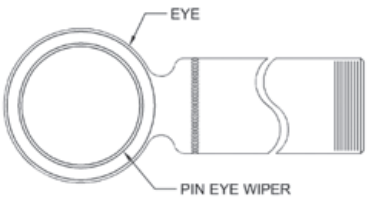
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WT/N - Pin Wipers

Nitrile/Steel







Temperature: -31/212F [-35/100C] **Pressure: N/A**

Ref.Number	Pin diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	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			3.14
W006010020WT/N*	6.00	+0.00 / -0.03	6.00	10.00	2.00		10.00	+0.03 / -0.00			2.10	+0.02 / -0.00			3.14
W006012020WT/N*	6.00	+0.00 / -0.03	6.00	12.00	2.00		12.00	+0.03 / -0.00			2.10	+0.02 / -0.00			3.45
W008012030WT/N*	8.00	+0.00 / -0.03	8.00	12.00	3.00		12.00	+0.03 / -0.00			3.30	+0.02 / -0.00			3.45
W008015030WT/N*	8.00	+0.00 / -0.03	8.00	15.00	3.00		15.00	+0.03 / -0.00			3.30	+0.02 / -0.00			3.76
W010014030WT/N*	10.00	+0.00 / -0.03	10.00	14.00	3.00		14.00	+0.03 / -0.00			3.30	+0.02 / -0.00			3.76
W010017030WT/N*	10.00	+0.00 / -0.03	10.00	17.00	3.00		17.00	+0.03 / -0.00			3.30	+0.02 / -0.00			3.76
W012016030WT/N*	12.00	+0.00 / -0.03	12.00	16.00	3.00		16.00	+0.03 / -0.00			3.30	+0.02 / -0.00			3.76
W012018030WT/N*	12.00	+0.00 / -0.03	12.00	18.00	3.00		18.00	+0.03 / -0.00			3.30	+0.02 / -0.00			4.08
W012019030WT/N*	12.00	+0.00 / -0.03	12.00	19.00	3.00		19.00	+0.03 / -0.00			3.30	+0.02 / -0.00			3.76
W014020030WT/N*	14.00	+0.00 / -0.03	14.00	20.00	3.00		20.00	+0.03 / -0.00			3.30	+0.02 / -0.00			3.76
W015023030WT/N*	15.00	+0.00 / -0.03	15.00	23.00	3.00		23.00	+0.03 / -0.00			3.30	+0.02 / -0.00			4.39
W016024030WT/N*	16.00	+0.00 / -0.03	16.00	24.00	3.00		24.00	+0.03 / -0.00			3.30	+0.02 / -0.00			5.33
W020026040WT/N*	20.00	+0.00 / -0.04	20.00	26.00	4.00		26.00	+0.04 / -0.00			4.30	+0.02 / -0.00			4.39
W022028040WT/N*	22.00	+0.00 / -0.04	22.00	28.00	4.00		28.00	+0.04 / -0.00			4.30	+0.02 / -0.00			4.30
W022030040WT/N*	22.00	+0.00 / -0.04	22.00	30.00	4.00		30.00	+0.04 / -0.00			4.30	+0.02 / -0.00			4.39
W025032040WT/N	25.00	+0.00 / -0.04	25.00	32.00	4.00		32.00	+0.04 / -0.00			4.30	+0.02 / -0.00			4.39
W025033040WT/N*	25.00	+0.00 / -0.04	25.00	33.00	4.00		33.00	+0.04 / -0.00			4.30	+0.02 / -0.00			4.39
W025035040WT/N*	25.00	+0.00 / -0.04	25.00	35.00	4.00		35.00	+0.04 / -0.00			4.30	+0.02 / -0.00			4.39
W028035040WT/N*	28.00	+0.00 / -0.04	28.00	35.00	4.00		35.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.33
W028037040WT/N*	28.00	+0.00 / -0.04	28.00	37.00	4.00		37.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.33
W030035040WT/N*	30.00	+0.00 / -0.04	30.00	35.00	4.00		35.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.64
W030037040WT/N*	30.00	+0.00 / -0.04	30.00	37.00	4.00		37.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.64
W030040040WT/N	30.00	+0.00 / -0.04	30.00	40.00	4.00		40.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.22
W032042040WT/N*	32.00	+0.00 / -0.04	32.00	42.00	4.00		42.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.64
W035042040WT/N	35.00	+0.00 / -0.04	35.00	42.00	4.00		42.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.64
W035045040WT/N	35.00	+0.00 / -0.04	35.00	45.00	4.00		45.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.22
W038048040WT/N*	38.00	+0.00 / -0.04	38.00	48.00	4.00		48.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.22
W040047040WT/N*	40.00	+0.00 / -0.05	40.00	47.00	4.00		47.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.64
W040050040WT/N	40.00	+0.00 / -0.05	40.00	50.00	4.00		50.00	+0.04 / -0.00			4.30	+0.02 / -0.00			5.22
W042052040WT/N*	42.00	+0.00 / -0.05	42.00	52.00	4.00		52.00	+0.05 / -0.00			4.30	+0.02 / -0.00			5.64
W045055040WT/N	45.00	+0.00 / -0.05	45.00	55.00	4.00		55.00	+0.05 / -0.00			4.30	+0.02 / -0.00			5.20
W045060040WT/N*	45.00	+0.00 / -0.05	45.00	60.00	4.00		60.00	+0.05 / -0.00			4.30	+0.02 / -0.00			6.48
W050058040WT/N*	50.00	+0.00 / -0.05	50.00	58.00	4.00		58.00	+0.05 / -0.00			4.30	+0.02 / -0.00			6.48
W050060040WT/N	50.00	+0.00 / -0.05	50.00	60.00	4.00		60.00	+0.05 / -0.00			4.30	+0.02 / -0.00			5.48
W050062050WT/N*	50.00	+0.00 / -0.05	50.00	62.00	5.00		62.00	+0.05 / -0.00			5.30	+0.02 / -0.00			7.16
W050065040WT/N*	50.00	+0.00 / -0.05	50.00	65.00	4.00		65.00	+0.05 / -0.00			4.30	+0.02 / -0.00			6.48

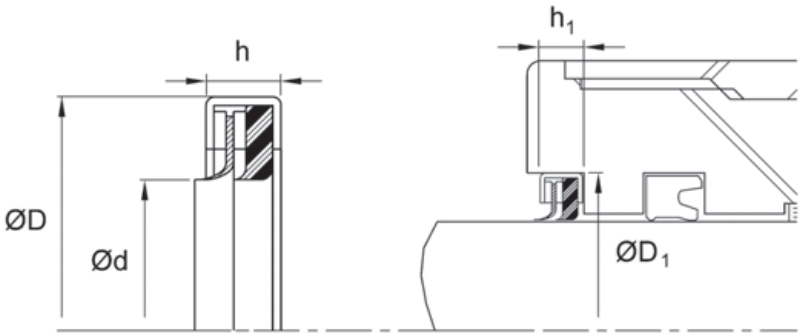
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WT/N SERIES - NBR/STEEL

Ref.Number	Pin diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	
W052068060WT/N*	52.00	+0.00 / -0.05	52.00	68.00	6.00		68.00	+0.05 / -0.00			6.30	+0.02 / -0.00			6.82
W055063050WT/N*	55.00	+0.00 / -0.05	55.00	63.00	5.00		63.00	+0.05 / -0.00			5.30	+0.02 / -0.00			7.16
W055068040WT/N*	55.00	+0.00 / -0.05	55.00	68.00	4.00		68.00	+0.05 / -0.00			4.30	+0.02 / -0.00			6.82
W055070040WT/N*	55.00	+0.00 / -0.05	55.00	70.00	4.00		70.00	+0.05 / -0.00			4.30	+0.02 / -0.00			6.58
W060075040WT/N	60.00	+0.00 / -0.05	60.00	75.00	4.00		75.00	+0.05 / -0.00			4.30	+0.02 / -0.00			6.58
W063078040WT/N*	63.00	+0.00 / -0.05	63.00	78.00	4.00		78.00	+0.05 / -0.00			4.30	+0.02 / -0.00			13.70
W065080040WT/N	65.00	+0.00 / -0.06	65.00	80.00	4.00		80.00	+0.05 / -0.00			4.30	+0.02 / -0.00			7.50
W070085040WT/N	70.00	+0.00 / -0.06	70.00	85.00	4.00		85.00	+0.05 / -0.00			4.30	+0.02 / -0.00			6.90
W075090040WT/N	75.00	+0.00 / -0.09	75.00	90.00	4.00		90.00	+0.05 / -0.00			4.30	+0.02 / -0.00			8.46
W080095040WT/N	80.00	+0.00 / -0.09	80.00	95.00	4.00		95.00	+0.05 / -0.00			4.30	+0.02 / -0.00			9.72
W085100040WT/N	85.00	+0.00 / -0.09	85.00	100.00	4.00		100.00	+0.05 / -0.00			4.30	+0.02 / -0.00			14.25
W090104040WT/N*	90.00	+0.00 / -0.09	90.00	104.00	4.00		104.00	+0.05 / -0.00			4.30	+0.02 / -0.00			17.91
W090105040WT/N	90.00	+0.00 / -0.09	90.00	105.00	4.00		105.00	+0.05 / -0.00			4.30	+0.02 / -0.00			10.97
W095110040WT/N*	95.00	+0.00 / -0.09	95.00	110.00	4.00		110.00	+0.05 / -0.00			4.30	+0.02 / -0.00			15.53
W100115040WT/N	100.00	+0.00 / -0.09	100.00	115.00	4.00		115.00	+0.05 / -0.00			4.30	+0.02 / -0.00			13.17
W100120040WT/N*	100.00	+0.00 / -0.13	100.00	120.00	4.00		120.00	+0.06 / -0.00			4.30	+0.02 / -0.00			18.49
W110125040WT/N	110.00	+0.00 / -0.13	110.00	125.00	4.00		125.00	+0.06 / -0.00			4.40	+0.02 / -0.00			18.21
W120135040WT/N	120.00	+0.00 / -0.13	120.00	135.00	4.00		135.00	+0.06 / -0.00			4.40	+0.02 / -0.00			23.30
W120140040WT/N	120.00	+0.00 / -0.13	120.00	140.00	4.00		140.00	+0.06 / -0.00			4.40	+0.02 / -0.00			36.27
W125140040WT/N*	125.00	+0.00 / -0.13	125.00	140.00	4.00		140.00	+0.06 / -0.00			4.40	+0.02 / -0.00			28.30
W160180050WT/N	160.00	+0.00 / -0.13	160.00	180.00	5.00		180.00	+0.06 / -0.00			5.30	+0.02 / -0.00			67.01

WU - Rod Wipers

Nitrile/Brass/Steel



Temperature: -40/248F [-40/120C] **Pressure: N/A**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W012025065WU*	12.00	+0.00 / -0.04	12.00	25.00	6.50		25.00	+0.03 / -0.00	7.00	+0.50 / -0.00	O/R
W014027065WU*	14.00	+0.00 / -0.04	14.00	27.00	6.50		27.00	+0.03 / -0.00	7.00	+0.50 / -0.00	190.46
W014027071WU*	14.00	+0.00 / -0.04	14.00	27.00	7.14		27.00	+0.03 / -0.00	7.90	+0.50 / -0.00	O/R
W015028065WU*	15.00	+0.00 / -0.04	15.00	28.00	6.50		28.00	+0.03 / -0.00	7.00	+0.50 / -0.00	O/R
W016029065WU*	16.00	+0.00 / -0.04	16.00	29.00	6.50		29.00	+0.03 / -0.00	7.00	+0.50 / -0.00	190.46
W018031065WU*	18.00	+0.00 / -0.04	18.00	31.00	6.50		31.00	+0.04 / -0.00	7.00	+0.50 / -0.00	O/R
W020033065WU*	20.00	+0.00 / -0.04	20.00	33.00	6.50		33.00	+0.04 / -0.00	7.00	+0.50 / -0.00	O/R
W022035065WU*	22.00	+0.00 / -0.04	22.00	35.00	6.50		35.00	+0.04 / -0.00	7.00	+0.50 / -0.00	O/R
W025038065WU*	25.00	+0.00 / -0.04	25.00	38.00	6.50		38.00	+0.04 / -0.00	7.00	+0.50 / -0.00	196.25

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

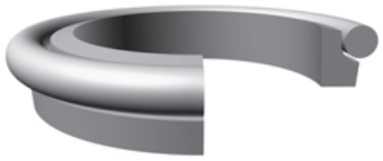
WU SERIES - NBR/BRASS/STEEL

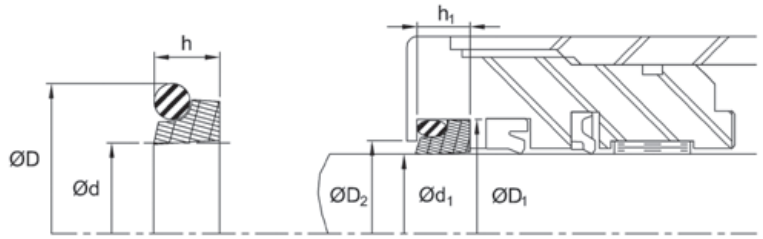
Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	h	H	D1	Tol.	h1	Tol.	
W025038071WU*	25.00	+0.00 / -0.04	25.00	38.00	7.14		38.00	+0.04 / -0.00	7.90	+0.50 / -0.00	O/R
W028041065WU*	28.00	+0.00 / -0.04	28.00	41.00	6.50		41.00	+0.04 / -0.00	7.00	+0.50 / -0.00	201.21
W030042071WU*	30.00	+0.00 / -0.04	30.00	42.00	7.14		42.00	+0.04 / -0.00	7.90	+0.50 / -0.00	O/R
W030043070WU*	30.00	+0.00 / -0.04	30.00	43.00	7.00		43.00	+0.04 / -0.00	7.50	+0.50 / -0.00	O/R
W032045070WU*	32.00	+0.00 / -0.04	32.00	45.00	7.00		45.00	+0.04 / -0.00	7.50	+0.50 / -0.00	205.75
W035048070WU*	35.00	+0.00 / -0.04	35.00	48.00	7.00		48.00	+0.04 / -0.00	7.50	+0.50 / -0.00	O/R
W036049070WU*	36.00	+0.00 / -0.04	36.00	49.00	7.00		49.00	+0.04 / -0.00	7.50	+0.50 / -0.00	210.71
W038051070WU*	38.00	+0.00 / -0.04	38.00	51.00	7.00		51.00	+0.05 / -0.00	7.50	+0.50 / -0.00	O/R
W040052071WU*	40.00	+0.00 / -0.04	40.00	52.00	7.14		52.00	+0.05 / -0.00	7.90	+0.50 / -0.00	O/R
W040053070WU*	40.00	+0.00 / -0.04	40.00	53.00	7.00		53.00	+0.05 / -0.00	7.50	+0.50 / -0.00	215.67
W045058070WU*	45.00	+0.00 / -0.04	45.00	58.00	7.00		58.00	+0.05 / -0.00	7.50	+0.50 / -0.00	221.04
W050064075WU*	50.00	+0.00 / -0.04	50.00	64.00	7.50		64.00	+0.05 / -0.00	8.00	+0.50 / -0.00	226.82
W050065071WU*	50.00	+0.00 / -0.04	50.00	65.00	7.14		65.00	+0.05 / -0.00	7.90	+0.50 / -0.00	O/R
W055069075WU*	55.00	+0.00 / -0.04	55.00	69.00	7.50		69.00	+0.05 / -0.00	8.00	+0.50 / -0.00	O/R
W056069071WU*	56.00	+0.00 / -0.04	56.00	69.00	7.14		69.00	+0.05 / -0.00	7.90	+0.50 / -0.00	O/R
W058072075WU*	58.00	+0.00 / -0.04	58.00	72.00	7.50		72.00	+0.05 / -0.00	8.00	+0.50 / -0.00	O/R
W060074071WU*	60.00	+0.00 / -0.04	60.00	74.90	7.14		74.90	+0.05 / -0.00	7.90	+0.50 / -0.00	O/R
W060074075WU*	60.00	+0.00 / -0.04	60.00	74.00	7.50		74.00	+0.05 / -0.00	8.00	+0.50 / -0.00	234.26
W063077075WU*	63.00	+0.00 / -0.04	63.00	77.00	7.50		77.00	+0.05 / -0.00	8.00	+0.50 / -0.00	239.22
W065079075WU*	65.00	+0.00 / -0.04	65.00	79.00	7.50		79.00	+0.05 / -0.00	8.00	+0.50 / -0.00	O/R
W068082075WU*	68.00	+0.00 / -0.04	68.00	82.00	7.50		82.00	+0.05 / -0.00	8.00	+0.50 / -0.00	O/R
W070084075WU*	70.00	+0.00 / -0.04	70.00	84.00	7.50		84.00	+0.05 / -0.00	8.00	+0.50 / -0.00	242.93
W075089075WU*	75.00	+0.00 / -0.04	75.00	89.00	7.50		89.00	+0.05 / -0.00	8.00	+0.50 / -0.00	O/R
W080096080WU*	80.00	+0.00 / -0.04	80.00	96.00	8.00		96.00	+0.05 / -0.00	8.50	+0.50 / -0.00	253.68
W085101080WU*	85.00	+0.00 / -0.04	85.00	101.00	8.00		101.00	+0.05 / -0.00	8.50	+0.50 / -0.00	O/R
W090106080WU*	90.00	+0.00 / -0.04	90.00	106.00	8.00		106.00	+0.05 / -0.00	8.50	+0.50 / -0.00	285.08
W090110083WU*	90.00	+0.00 / -0.04	90.00	110.00	8.33		110.00	+0.05 / -0.00	9.10	+0.50 / -0.00	O/R
W095111080WU*	95.00	+0.00 / -0.04	95.00	111.00	8.00		111.00	+0.05 / -0.00	8.50	+0.50 / -0.00	O/R
W100120085WU*	100.00	+0.00 / -0.04	100.00	120.00	8.50		120.00	+0.05 / -0.00	9.00	+0.50 / -0.00	294.99
W110130085WU*	110.00	+0.00 / -0.04	110.00	130.00	8.50		130.00	+0.06 / -0.00	9.00	+0.50 / -0.00	342.92
W120140076WU*	120.00	+0.00 / -0.04	120.00	140.00	7.60		140.00	+0.06 / -0.00	8.40	+0.50 / -0.00	O/R
W120140085WU*	120.00	+0.00 / -0.04	120.00	140.00	8.50		140.00	+0.06 / -0.00	9.00	+0.50 / -0.00	O/R
W130150085WU*	130.00	+0.00 / -0.05	130.00	150.00	8.50		150.00	+0.06 / -0.00	9.00	+0.50 / -0.00	O/R
W140160085WU*	140.00	+0.00 / -0.05	140.00	160.00	8.50		160.00	+0.06 / -0.00	9.00	+0.50 / -0.00	466.04

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

WV - Rod Wipers

40% BR.PTFE/NBR





Temperature: -50/250F [-45/121C] **Pressure: N/A**

Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	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			17.72
W008012037WV*	8.00	+0.00 / -0.04					12.80	+0.07 / -0.00	10.70	+0.10 / -0.00	3.70	+0.20 / -0.00			18.12
W010014037WV*	10.00	+0.00 / -0.04					14.80	+0.07 / -0.00	12.70	+0.10 / -0.00	3.70	+0.20 / -0.00			20.47
W012018050WV*	12.00	+0.00 / -0.04					18.80	+0.08 / -0.00	15.50	+0.10 / -0.00	5.00	+0.20 / -0.00			26.57
W014020050WV*	14.00	+0.00 / -0.04					20.80	+0.08 / -0.00	17.50	+0.10 / -0.00	5.00	+0.20 / -0.00			27.22
W015021050WV*	15.00	+0.00 / -0.04					21.80	+0.08 / -0.00	18.50	+0.10 / -0.00	5.00	+0.20 / -0.00			27.71
W016022050WV	16.00	+0.00 / -0.04					22.80	+0.08 / -0.00	19.50	+0.10 / -0.00	5.00	+0.20 / -0.00			28.43
W018024050WV*	18.00	+0.00 / -0.04					24.80	+0.08 / -0.00	21.50	+0.10 / -0.00	5.00	+0.20 / -0.00			28.79
W020026050WV*	20.00	+0.00 / -0.04					26.80	+0.08 / -0.00	23.50	+0.10 / -0.00	5.00	+0.20 / -0.00			29.54
W022028050WV	22.00	+0.00 / -0.04					28.80	+0.08 / -0.00	25.50	+0.10 / -0.00	5.00	+0.20 / -0.00			30.64
W025031050WV	25.00	+0.00 / -0.04					31.80	+0.10 / -0.00	28.50	+0.10 / -0.00	5.00	+0.20 / -0.00			32.73
W028034050WV	28.00	+0.00 / -0.04					34.80	+0.10 / -0.00	31.50	+0.10 / -0.00	5.00	+0.20 / -0.00			33.29
W030036050WV*	30.00	+0.00 / -0.04					36.80	+0.10 / -0.00	33.50	+0.10 / -0.00	5.00	+0.20 / -0.00			33.57
W032038050WV	32.00	+0.00 / -0.04					38.80	+0.10 / -0.00	35.50	+0.10 / -0.00	5.00	+0.20 / -0.00			33.96
W035041050WV	35.00	+0.00 / -0.04					41.80	+0.10 / -0.00	38.50	+0.10 / -0.00	5.00	+0.20 / -0.00			34.34
W036042050WV	36.00	+0.00 / -0.04					42.80	+0.10 / -0.00	39.50	+0.10 / -0.00	5.00	+0.20 / -0.00			34.34
W038044050WV*	38.00	+0.00 / -0.04					44.80	+0.10 / -0.00	41.50	+0.10 / -0.00	5.00	+0.20 / -0.00			34.53
W040046050WV	40.00	+0.00 / -0.05					46.80	+0.10 / -0.00	43.50	+0.10 / -0.00	5.00	+0.20 / -0.00			34.71
W042048050WV*	42.00	+0.00 / -0.05					48.80	+0.10 / -0.00	45.50	+0.10 / -0.00	5.00	+0.20 / -0.00			34.90
W045051050WV	45.00	+0.00 / -0.05					51.80	+0.12 / -0.00	48.50	+0.10 / -0.00	5.00	+0.20 / -0.00			35.19
W048054050WV*	48.00	+0.00 / -0.05					54.80	+0.12 / -0.00	51.50	+0.10 / -0.00	5.00	+0.20 / -0.00			35.47
W050056050WV	50.00	+0.00 / -0.05					56.80	+0.12 / -0.00	53.50	+0.10 / -0.00	5.00	+0.20 / -0.00			35.47
W052058050WV*	52.00	+0.00 / -0.05					58.80	+0.12 / -0.00	55.50	+0.10 / -0.00	5.00	+0.20 / -0.00			35.75
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			35.66
W056062050WV*	56.00	+0.00 / -0.05					62.80	+0.12 / -0.00	59.50	+0.10 / -0.00	5.00	+0.20 / -0.00			35.75
W060066050WV	60.00	+0.00 / -0.05					66.80	+0.12 / -0.00	63.50	+0.10 / -0.00	5.00	+0.20 / -0.00			36.03
W063069050WV*	63.00	+0.00 / -0.05					69.80	+0.12 / -0.00	66.50	+0.10 / -0.00	5.00	+0.20 / -0.00			36.40
W065073060WV*	65.00	+0.00 / -0.06					73.80	+0.12 / -0.00	69.00	+0.10 / -0.00	6.00	+0.20 / -0.00			38.59
W070078060WV*	70.00	+0.00 / -0.06					78.80	+0.12 / -0.00	74.00	+0.10 / -0.00	6.00	+0.20 / -0.00			40.86
W075083060WV*	75.00	+0.00 / -0.06					83.80	+0.14 / -0.00	79.00	+0.10 / -0.00	6.00	+0.20 / -0.00			42.09
W080088060WV	80.00	+0.00 / -0.09					88.80	+0.14 / -0.00	84.00	+0.10 / -0.00	6.00	+0.20 / -0.00			43.51
W085093060WV	85.00	+0.00 / -0.09					93.80	+0.14 / -0.00	89.00	+0.10 / -0.00	6.00	+0.20 / -0.00			44.93
W090098060WV	90.00	+0.00 / -0.09					98.80	+0.14 / -0.00	94.00	+0.10 / -0.00	6.00	+0.20 / -0.00			46.06
W095103060WV*	95.00	+0.00 / -0.09					103.80	+0.14 / -0.00	99.00	+0.10 / -0.00	6.00	+0.20 / -0.00			48.15
W100108060WV	100.00	+0.00 / -0.09					108.80	+0.14 / -0.00	104.00	+0.10 / -0.00	6.00	+0.20 / -0.00			49.95
W105113060WV*	105.00	+0.00 / -0.13					113.80	+0.14 / -0.00	109.00	+0.10 / -0.00	6.00	+0.20 / -0.00			54.01
W110118060WV	110.00	+0.00 / -0.13					118.80	+0.14 / -0.00	114.00	+0.10 / -0.00	6.00	+0.20 / -0.00			54.01

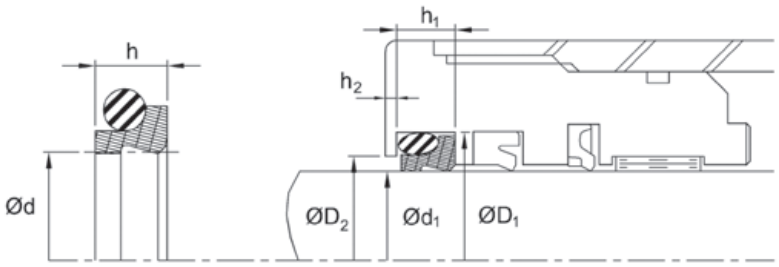
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

WV SERIES - 40% BR.PTFE/NBR

Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	H1	Tol.	$
W115123060WV*	115.00	+0.00 / -0.13					123.80	+0.16 / -0.00	119.00	+0.10 / -0.00	6.00	+0.20 / -0.00			54.56
W120128060WV*	120.00	+0.00 / -0.13					128.80	+0.16 / -0.00	124.00	+0.10 / -0.00	6.00	+0.20 / -0.00			57.88
W125133060WV*	125.00	+0.00 / -0.13					133.80	+0.16 / -0.00	129.00	+0.10 / -0.00	6.00	+0.20 / -0.00			60.06
W130138060WV	130.00	+0.00 / -0.13					138.80	+0.16 / -0.00	134.00	+0.10 / -0.00	6.00	+0.20 / -0.00			62.05
W140148060WV*	140.00	+0.00 / -0.13					148.80	+0.16 / -0.00	144.00	+0.10 / -0.00	6.00	+0.20 / -0.00			66.69
W150158060WV*	150.00	+0.00 / -0.13					158.80	+0.16 / -0.00	154.00	+0.10 / -0.00	6.00	+0.20 / -0.00			71.22
W160168060WV*	160.00	+0.00 / -0.13					168.80	+0.16 / -0.00	164.00	+0.10 / -0.00	6.00	+0.20 / -0.00			76.23
W170178060WV*	170.00	+0.00 / -0.13					178.80	+0.16 / -0.00	174.00	+0.10 / -0.00	6.00	+0.20 / -0.00			82.20
W180188060WV*	180.00	+0.00 / -0.13					188.80	+0.18 / -0.00	184.00	+0.10 / -0.00	6.00	+0.20 / -0.00			87.20
W190198060WV*	190.00	+0.00 / -0.13					198.80	+0.18 / -0.00	194.00	+0.10 / -0.00	6.00	+0.20 / -0.00			93.26
W200208060WV	200.00	+0.00 / -0.13					208.80	+0.18 / -0.00	204.00	+0.10 / -0.00	6.00	+0.20 / -0.00			99.50
W210218060WV	210.00	+0.00 / -0.13					218.80	+0.18 / -0.00	214.00	+0.10 / -0.00	6.00	+0.20 / -0.00			107.36
W220228060WV*	220.00	+0.00 / -0.13					228.80	+0.18 / -0.00	224.00	+0.10 / -0.00	6.00	+0.20 / -0.00			115.11
W225233060WV*	225.00	+0.00 / -0.13					233.80	+0.18 / -0.00	229.00	+0.10 / -0.00	6.00	+0.20 / -0.00			119.46
W230238060WV*	230.00	+0.00 / -0.13					238.80	+0.18 / -0.00	234.00	+0.10 / -0.00	6.00	+0.20 / -0.00			123.81
W240248060WV*	240.00	+0.00 / -0.13					248.80	+0.18 / -0.00	244.00	+0.10 / -0.00	6.00	+0.20 / -0.00			135.91
W250258060WV*	250.00	+0.00 / -0.13					258.80	+0.21 / -0.00	254.00	+0.10 / -0.00	6.00	+0.20 / -0.00			160.33
W260272084WV*	260.00	+0.00 / -0.13					272.20	+0.21 / -0.00	264.50	+0.10 / -0.00	8.40	+0.20 / -0.00			255.95
W270282084WV*	270.00	+0.00 / -0.13					282.20	+0.21 / -0.00	274.50	+0.10 / -0.00	8.40	+0.20 / -0.00			266.82
W280292084WV*	280.00	+0.00 / -0.13					292.20	+0.21 / -0.00	274.50	+0.10 / -0.00	8.40	+0.20 / -0.00			277.80
W290302084WV*	290.00	+0.00 / -0.13					302.20	+0.21 / -0.00	294.50	+0.10 / -0.00	8.40	+0.20 / -0.00			292.36
W300312084WV*	300.00	+0.00 / -0.13					312.20	+0.21 / -0.00	304.50	+0.10 / -0.00	8.40	+0.20 / -0.00			303.23

WW - Rod Wipers

40% BR. PTFE/NBR
Polyurethane/NBR



PTFE **Temperature: -50/250F [-45/121C]** **Pressure: N/A**
AU **Temperature: -40/230F [-40/110C]** **Pressure: N/A**

Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	h	H	Housing Dimensions D1	Tol.	D2	Tol.	h1	Tol.	h2	Tol.	$
W008012037WW*	8.00	+0.00 / -0.04					12.80	+0.04 / -0.00	9.50	+0.09 / -0.00	3.70	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W010014037WW*	10.00	+0.00 / -0.04					14.80	+0.04 / -0.00	11.50	+0.11 / -0.00	3.70	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W012018050WW*	12.00	+0.00 / -0.04					18.80	+0.04 / -0.00	13.50	+0.11 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W014020050WW*	14.00	+0.00 / -0.04					20.80	+0.04 / -0.00	15.50	+0.11 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W015021050WW*	15.00	+0.00 / -0.04					21.80	+0.04 / -0.00	16.50	+0.11 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W016022050WW*	16.00	+0.00 / -0.04					22.80	+0.04 / -0.00	17.50	+0.11 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W018024050WW*	18.00	+0.00 / -0.04					24.80	+0.04 / -0.00	19.50	+0.11 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W020026050WW	20.00	+0.00 / -0.04					26.80	+0.05 / -0.00	21.50	+0.13 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77

*** : 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.	
W022028050WW	22.00	+0.00 / -0.04					28.80	+0.05 / -0.00	23.50	+0.13 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W025031050WW*	25.00	+0.00 / -0.04					31.80	+0.05 / -0.00	26.50	+0.13 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	23.77
W028034050WW	28.00	+0.00 / -0.04					34.80	+0.05 / -0.00	29.50	+0.13 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	31.34
W030036050WW*	30.00	+0.00 / -0.04					36.80	+0.05 / -0.00	31.50	+0.13 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	31.34
W032038050WW*	32.00	+0.00 / -0.04					38.80	+0.06 / -0.00	33.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	35.55
W035041050WW	35.00	+0.00 / -0.04					41.80	+0.06 / -0.00	36.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	35.55
W036042050WW	36.00	+0.00 / -0.04					42.80	+0.06 / -0.00	37.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	35.55
W040046050WW	40.00	+0.00 / -0.05					46.80	+0.06 / -0.00	41.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	35.55
W042048050WW*	42.00	+0.00 / -0.05					48.80	+0.06 / -0.00	43.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	35.55
W045051050WW	45.00	+0.00 / -0.05					51.80	+0.06 / -0.00	46.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	39.74
W048054050WW*	48.00	+0.00 / -0.05					54.80	+0.06 / -0.00	49.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	39.74
W050056050WW	50.00	+0.00 / -0.05					56.80	+0.06 / -0.00	51.50	+0.16 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	39.74
W050058063WW/U	50.00	+0.00 / -0.05					58.80	+0.06 / -0.00	51.50	+0.16 / -0.00	6.30	+0.20 / -0.00	3.00	+0.20 / -0.20	65.19
W052058050WW*	52.00	+0.00 / -0.05					58.80	+0.07 / -0.00	53.50	+0.19 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	39.74
W055061050WW*	55.00	+0.00 / -0.05					61.80	+0.07 / -0.00	56.50	+0.19 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	39.74
W056062050WW	56.00	+0.00 / -0.05					62.80	+0.07 / -0.00	57.50	+0.19 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	39.74
W060066050WW*	60.00	+0.00 / -0.05					66.80	+0.07 / -0.00	61.50	+0.19 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	44.09
W063069050WW*	63.00	+0.00 / -0.05					69.80	+0.07 / -0.00	64.50	+0.19 / -0.00	5.00	+0.20 / -0.00	2.00	+0.20 / -0.20	44.09
W065073060WW	65.00	+0.00 / -0.06					73.80	+0.07 / -0.00	66.50	+0.19 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	44.09
W070078060WW	70.00	+0.00 / -0.06					78.80	+0.07 / -0.00	71.50	+0.19 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	48.28
W075083060WW*	75.00	+0.00 / -0.06					83.80	+0.07 / -0.00	76.50	+0.19 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	48.28
W080088060WW	80.00	+0.00 / -0.09					88.80	+0.07 / -0.00	81.50	+0.19 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	48.28
W085093060WW*	85.00	+0.00 / -0.09					93.80	+0.09 / -0.00	86.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	48.45
W085097081WW/U	85.00	+0.00 / -0.09					97.20	+0.09 / -0.00	87.00	+0.22 / -0.00	8.10	+0.20 / -0.00	4.00	+0.20 / -0.20	68.03
W090098060WW	90.00	+0.00 / -0.09					98.80	+0.09 / -0.00	91.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	48.45
W090102081WW/U	90.00	+0.00 / -0.09					102.20	+0.09 / -0.00	92.00	+0.22 / -0.00	8.10	+0.20 / -0.00	4.00	+0.20 / -0.20	145.90
W095103060WW*	95.00	+0.00 / -0.09					103.80	+0.09 / -0.00	96.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	52.97
W095107081WW/U	95.00	+0.00 / -0.09					107.20	+0.09 / -0.00	97.00	+0.22 / -0.00	8.10	+0.20 / -0.00	4.00	+0.20 / -0.20	72.55
W100108060WW	100.00	+0.00 / -0.09					108.80	+0.09 / -0.00	101.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	52.97
W105113060WW*	105.00	+0.00 / -0.13					113.80	+0.09 / -0.00	106.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	52.97
W110118060WW	110.00	+0.00 / -0.13					118.80	+0.09 / -0.00	111.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	52.97
W110122081WW/U	110.00	+0.00 / -0.13					122.20	+0.09 / -0.00	112.00	+0.22 / -0.00	8.10	+0.20 / -0.00	4.00	+0.20 / -0.20	82.12
W115123060WW*	115.00	+0.00 / -0.13					123.80	+0.09 / -0.00	116.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	58.40
W120128060WW*	120.00	+0.00 / -0.13					128.80	+0.09 / -0.00	121.50	+0.22 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	58.40
W125133060WW	125.00	+0.00 / -0.13					133.80	+0.10 / -0.00	126.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	58.40
W130138060WW	130.00	+0.00 / -0.13					138.80	+0.10 / -0.00	131.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	62.76
W135143060WW*	135.00	+0.00 / -0.13					143.80	+0.10 / -0.00	136.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	62.76
W140148060WW	140.00	+0.00 / -0.13					148.80	+0.10 / -0.00	141.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	62.76
W150158060WW*	150.00	+0.00 / -0.13					158.80	+0.10 / -0.00	151.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	71.19
W160168060WW	160.00	+0.00 / -0.13					168.80	+0.10 / -0.00	161.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	87.71
W170178060WW*	170.00	+0.00 / -0.13					178.80	+0.10 / -0.00	171.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	87.71
W180188060WW*	180.00	+0.00 / -0.13					188.80	+0.10 / -0.00	181.50	+0.25 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	87.71
W180196095WW*	180.00	+0.00 / -0.13					196.00	+0.10 / -0.00	182.50	+0.25 / -0.00	9.50	+0.20 / -0.00	5.00	+0.20 / -0.20	125.37
W190198060WW*	190.00	+0.00 / -0.13					198.80	+0.12 / -0.00	191.50	+0.29 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	97.71
W200208060WW*	200.00	+0.00 / -0.13					208.80	+0.12 / -0.00	201.50	+0.29 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	102.06
W210218060WW*	210.00	+0.00 / -0.13					218.80	+0.12 / -0.00	211.50	+0.29 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	103.52
W220228060WW	220.00	+0.00 / -0.13					228.80	+0.12 / -0.00	221.50	+0.29 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	103.63
W230238060WW*	230.00	+0.00 / -0.13					238.80	+0.12 / -0.00	231.50	+0.29 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	112.06

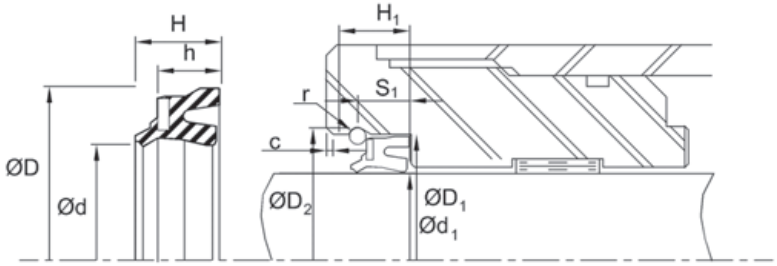
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

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.	
W240248060WW*	240.00	+0.00 / -0.13					248.80	+0.12 / -0.00	241.50	+0.29 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	116.36
W250258060WW*	250.00	+0.00 / -0.13					258.80	+0.12 / -0.00	251.50	+0.29 / -0.00	6.00	+0.20 / -0.00	3.00	+0.20 / -0.20	120.51
W260272084WW*	260.00	+0.00 / -0.13					272.20	+0.13 / -0.00	262.00	+0.32 / -0.00	8.40	+0.20 / -0.00	4.00	+0.20 / -0.20	152.83
W270282084WW*	270.00	+0.00 / -0.13					282.20	+0.13 / -0.00	272.00	+0.32 / -0.00	8.40	+0.20 / -0.00	4.00	+0.20 / -0.20	161.59
W280292084WW*	280.00	+0.00 / -0.13					292.20	+0.13 / -0.00	282.00	+0.32 / -0.00	8.40	+0.20 / -0.00	4.00	+0.20 / -0.20	161.59
W290302084WW*	290.00	+0.00 / -0.13					302.20	+0.13 / -0.00	292.00	+0.32 / -0.00	8.40	+0.20 / -0.00	4.00	+0.20 / -0.20	170.20
W350366095WW*	350.00	+0.00 / -0.13					366.00	+0.13 / -0.00	352.50	+0.32 / -0.00	9.50	+0.20 / -0.00	5.00	+0.20 / -0.20	224.41

WZ - Rod Wipers

NBR/Steel



Temperature: -52/176F [-30/105C] **Pressure: 232 PSI [16 Bar]**

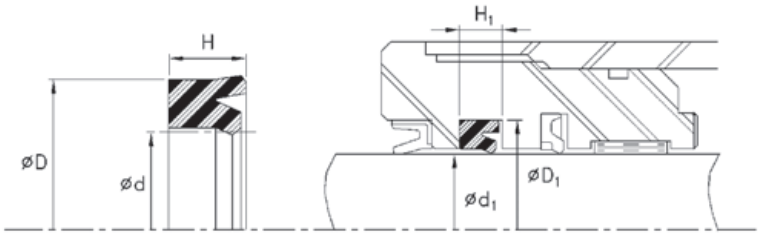
Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	D1	Tol.	D2	Tol.	S1	Tol.	r	c	
W010017070WZ*	10.00	-0.013 / -0.049	10.00	17.00	7.00	9.50	17.00	+0.07 / -0.00	19.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	1.50	3.55
W012020060WZ*	12.00	-0.016 / -0.059	12.00	20.00	6.00	9.50	20.00	+0.084 / -0.00	22.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	1.50	3.55
W012022070WZ*	12.00	-0.016 / -0.059	12.00	22.00	7.00	9.50	22.00	+0.084 / -0.00	24.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	1.50	3.55
W014024070WZ*	14.00	-0.016 / -0.059	14.00	24.00	7.00	9.50	24.00	+0.084 / -0.00	26.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	1.50	3.68
W016026070WZ*	16.00	-0.016 / -0.059	16.00	26.00	7.00	9.50	26.00	+0.084 / -0.00	28.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	1.50	3.68
W018026060WZ*	18.00	-0.016 / -0.059	18.00	26.00	6.00	9.50	26.00	+0.084 / -0.00	28.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	1.50	3.94
W020030070WZ*	20.00	-0.02 / -0.053	20.00	30.00	7.00	9.50	30.00	+0.10 / -0.00	32.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	2.00	4.19
W022032070WZ*	22.00	-0.02 / -0.053	22.00	32.00	7.00	9.50	32.00	+0.10 / -0.00	34.00	+0.10 / -0.10	8.50	+0.20 / -0.00	1.10	2.00	4.44
W025035070WZ*	25.00	-0.02 / -0.053	25.00	35.00	7.00	9.50	35.00	+0.10 / -0.00	37.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.40	2.00	4.70
W030040070WZ*	30.00	-0.02 / -0.053	30.00	40.00	7.00	9.50	40.00	+0.10 / -0.00	42.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.40	2.00	5.08
W032042070WZ*	32.00	-0.025 / -0.087	32.00	42.00	7.00	9.50	42.00	+0.10 / -0.00	44.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.40	2.00	5.33
W035045070WZ*	35.00	-0.025 / -0.087	35.00	45.00	7.00	9.50	45.00	+0.10 / -0.00	47.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.40	2.00	5.97
W040050070WZ*	40.00	-0.025 / -0.087	40.00	50.00	7.00	9.50	50.00	+0.12 / -0.00	52.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.40	2.00	6.85
W040050070WZ/V*	40.00	-0.025 / -0.087	40.00	50.00	7.00	9.50	50.00	+0.12 / -0.00	52.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.40	2.00	42.00
W045055070WZ*	45.00	-0.025 / -0.087	45.00	55.00	7.00	9.50	55.00	+0.12 / -0.00	57.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.40	2.00	8.00
W050060070WZ*	50.00	-0.025 / -0.087	50.00	60.00	7.00	9.50	60.00	+0.12 / -0.00	62.50	+0.10 / -0.10	8.50	+0.20 / -0.00	1.80	2.00	9.01

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

	RA	J	2
	RA/N	J	10
	RA-E	J	14
	RC	J	19
	RC/3L	J	27
	621 TECH. DETAILS	J	29
	RE	J	30
	RH	J	32
	RR	J	33
	RV	J	37
	RX	J	40
	RZ	J	43
	R5	J	46
	R6	J	47
	R8	J	48
	R12	J	48
	R14	J	49
	R19	J	50
	R20	J	51

RA - Rod Seals

Polyurethane AU 94A



Temperature: -31/212F [-35/100C] **Pressure: 6000 PSI [415]**

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	O/R
R008018060RA*	8.00	+0.00 / -0.04	8.00	18.00	6.00	8.00	+0.00 / -0.04	18.00	+0.07 / -0.00	7.00	+0.30 / -0.00	O/R
R008018075RA*	8.00	+0.00 / -0.04	8.00	18.00	7.50	8.00	+0.00 / -0.04	18.00	+0.07 / -0.00	8.50	+0.30 / -0.00	O/R
R009017050RA*	9.00	+0.00 / -0.04	9.00	17.00	5.00	9.00	+0.00 / -0.04	17.00	+0.07 / -0.00	5.70	+0.30 / -0.00	O/R
R009019060RA*	9.00	+0.00 / -0.04	9.00	19.00	6.00	9.00	+0.00 / -0.04	19.00	+0.08 / -0.00	7.00	+0.30 / -0.00	O/R
R009019075RA*	9.00	+0.00 / -0.04	9.00	19.00	7.50	9.00	+0.00 / -0.04	19.00	+0.08 / -0.00	8.50	+0.30 / -0.00	O/R
R009019080RA*	9.00	+0.00 / -0.04	9.00	19.00	8.00	9.00	+0.00 / -0.04	19.00	+0.08 / -0.00	9.00	+0.30 / -0.00	O/R
R010018050RA*	10.00	+0.00 / -0.04	10.00	18.00	5.00	10.00	+0.00 / -0.04	18.00	+0.07 / -0.00	5.70	+0.30 / -0.00	O/R
R010020060RA*	10.00	+0.00 / -0.04	10.00	20.00	6.00	10.00	+0.00 / -0.04	20.00	+0.08 / -0.00	7.00	+0.30 / -0.00	O/R
R010020075RA*	10.00	+0.00 / -0.04	10.00	20.00	7.50	10.00	+0.00 / -0.04	20.00	+0.08 / -0.00	8.50	+0.30 / -0.00	O/R
R010020080RA*	10.00	+0.00 / -0.04	10.00	20.00	8.00	10.00	+0.00 / -0.04	20.00	+0.08 / -0.00	9.00	+0.30 / -0.00	O/R
R014020048RA*	14.00	+0.00 / -0.04	14.00	20.00	4.80	14.00	+0.00 / -0.04	20.00	+0.08 / -0.00	5.50	+0.30 / -0.00	O/R
R014022050RA*	14.00	+0.00 / -0.04	14.00	22.00	5.00	14.00	+0.00 / -0.04	22.00	+0.08 / -0.00	5.70	+0.30 / -0.00	O/R
R014022110RA*	14.00	+0.00 / -0.04	14.00	22.00	11.00	14.00	+0.00 / -0.04	22.00	+0.08 / -0.00	12.00	+0.30 / -0.00	O/R
R014024060RA*	14.00	+0.00 / -0.04	14.00	24.00	6.00	14.00	+0.00 / -0.04	24.00	+0.08 / -0.00	7.00	+0.30 / -0.00	O/R
R014024075RA*	14.00	+0.00 / -0.04	14.00	24.00	7.50	14.00	+0.00 / -0.04	24.00	+0.08 / -0.00	8.50	+0.30 / -0.00	O/R
R014024080RA*	14.00	+0.00 / -0.04	14.00	24.00	8.00	14.00	+0.00 / -0.04	24.00	+0.08 / -0.00	9.00	+0.30 / -0.00	O/R
R015023050RA*	15.00	+0.00 / -0.04	15.00	23.00	5.00	15.00	+0.00 / -0.04	23.00	+0.08 / -0.00	5.70	+0.30 / -0.00	O/R
R015025060RA*	15.00	+0.00 / -0.04	15.00	25.00	6.00	15.00	+0.00 / -0.04	25.00	+0.08 / -0.00	7.00	+0.30 / -0.00	O/R
R015025080RA*	15.00	+0.00 / -0.04	15.00	25.00	8.00	15.00	+0.00 / -0.04	25.00	+0.08 / -0.00	9.00	+0.30 / -0.00	O/R
R015028080RA*	15.00	+0.00 / -0.04	15.00	28.00	8.00	15.00	+0.00 / -0.04	28.00	+0.08 / -0.00	9.00	+0.30 / -0.00	O/R
R015028100RA*	15.00	+0.00 / -0.04	15.00	28.00	10.00	15.00	+0.00 / -0.04	28.00	+0.08 / -0.00	11.00	+0.30 / -0.00	O/R
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	O/R
R016026060RA*	16.00	+0.00 / -0.04	16.00	26.00	6.00	16.00	+0.00 / -0.04	26.00	+0.08 / -0.00	7.00	+0.30 / -0.00	O/R
R016026075RA*	16.00	+0.00 / -0.04	16.00	26.00	7.50	16.00	+0.00 / -0.04	26.00	+0.08 / -0.00	8.50	+0.30 / -0.00	O/R
R016026080RA*	16.00	+0.00 / -0.04	16.00	26.00	8.00	16.00	+0.00 / -0.04	26.00	+0.08 / -0.00	9.00	+0.30 / -0.00	O/R
R018026050RA*	18.00	+0.00 / -0.04	18.00	26.00	5.00	18.00	+0.00 / -0.04	26.00	+0.08 / -0.00	5.70	+0.30 / -0.00	O/R
R018028060RA*	18.00	+0.00 / -0.04	18.00	28.00	6.00	18.00	+0.00 / -0.04	28.00	+0.08 / -0.00	7.00	+0.30 / -0.00	O/R
R018028080RA*	18.00	+0.00 / -0.04	18.00	28.00	8.00	18.00	+0.00 / -0.04	28.00	+0.08 / -0.00	9.00	+0.30 / -0.00	O/R
R018031100RA*	18.00	+0.00 / -0.04	18.00	31.00	10.00	18.00	+0.00 / -0.04	31.00	+0.10 / -0.00	11.00	+0.30 / -0.00	7.13
R019027050RA*	19.00	+0.00 / -0.04	19.00	27.00	5.00	19.00	+0.00 / -0.04	27.00	+0.08 / -0.00	5.70	+0.30 / -0.00	O/R
R020025050RA*	20.00	+0.00 / -0.04	20.00	25.00	5.00	20.00	+0.00 / -0.04	25.00	+0.08 / -0.00	5.70	+0.30 / -0.00	O/R
R020028057RA*	20.00	+0.00 / -0.04	20.00	28.00	5.70	20.00	+0.00 / -0.04	28.00	+0.08 / -0.00	6.30	+0.30 / -0.00	O/R
R020033080RA*	20.00	+0.00 / -0.04	20.00	33.00	8.00	20.00	+0.00 / -0.04	33.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R020033100RA*	20.00	+0.00 / -0.04	20.00	33.00	10.00	20.00	+0.00 / -0.04	33.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R022030070RA*	22.00	+0.00 / -0.04	22.00	30.00	7.00	22.00	+0.00 / -0.04	30.00	+0.08 / -0.00	8.00	+0.30 / -0.00	O/R
R022035100RA*	22.00	+0.00 / -0.04	22.00	35.00	10.00	22.00	+0.00 / -0.04	35.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R024034060RA*	24.00	+0.00 / -0.04	24.00	34.00	6.00	24.00	+0.00 / -0.04	34.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R

*** : 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.	
R025033050RA	25.00	+0.00 / -0.04	25.00	33.00	5.00	25.00	+0.00 / -0.04	33.00	+0.10 / -0.00	5.70	+0.30 / -0.00	8.77
R025035050RA*	25.00	+0.00 / -0.04	25.00	35.00	5.00	25.00	+0.00 / -0.04	35.00	+0.10 / -0.00	5.70	+0.30 / -0.00	O/R
R025035080RA*	25.00	+0.00 / -0.04	25.00	35.00	8.00	25.00	+0.00 / -0.04	35.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R025035090RA*	25.00	+0.00 / -0.04	25.00	35.00	9.00	25.00	+0.00 / -0.04	35.00	+0.10 / -0.00	10.00	+0.30 / -0.00	O/R
R025038080RA*	25.00	+0.00 / -0.04	25.00	38.00	8.00	25.00	+0.00 / -0.04	38.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R025038100RA*	25.00	+0.00 / -0.04	25.00	38.00	10.00	25.00	+0.00 / -0.04	38.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R025040090RA*	25.00	+0.00 / -0.04	25.00	40.00	9.00	25.00	+0.00 / -0.04	40.00	+0.10 / -0.00	10.00	+0.30 / -0.00	O/R
R025040100RA*	25.00	+0.00 / -0.04	25.00	40.00	10.00	25.00	+0.00 / -0.04	40.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R026036080RA*	26.00	+0.00 / -0.04	26.00	36.00	8.00	26.00	+0.00 / -0.04	36.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R027040100RA*	27.00	+0.00 / -0.04	27.00	40.00	10.00	27.00	+0.00 / -0.04	40.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R028034040RA*	28.00	+0.00 / -0.04	28.00	34.00	4.00	28.00	+0.00 / -0.04	34.00	+0.10 / -0.00	4.70	+0.30 / -0.00	O/R
R028036050RA*	28.00	+0.00 / -0.04	28.00	36.00	5.00	28.00	+0.00 / -0.04	36.00	+0.10 / -0.00	5.70	+0.30 / -0.00	O/R
R028038060RA*	28.00	+0.00 / -0.04	28.00	38.00	6.00	28.00	+0.00 / -0.04	38.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R
R028038080RA*	28.00	+0.00 / -0.04	28.00	38.00	8.00	28.00	+0.00 / -0.04	38.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R028041080RA*	28.00	+0.00 / -0.04	28.00	41.00	8.00	28.00	+0.00 / -0.04	41.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R028041100RA*	28.00	+0.00 / -0.04	28.00	41.00	10.00	28.00	+0.00 / -0.04	41.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R028043090RA*	28.00	+0.00 / -0.04	28.00	43.00	9.00	28.00	+0.00 / -0.04	43.00	+0.10 / -0.00	10.00	+0.30 / -0.00	O/R
R028043100RA*	28.00	+0.00 / -0.04	28.00	43.00	10.00	28.00	+0.00 / -0.04	43.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R030036040RA*	30.00	+0.00 / -0.04	30.00	36.00	4.00	30.00	+0.00 / -0.04	36.00	+0.10 / -0.00	4.70	+0.30 / -0.00	O/R
R030037060RA*	30.00	+0.00 / -0.04	30.00	37.00	6.00	30.00	+0.00 / -0.04	37.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R
R030038050RA*	30.00	+0.00 / -0.04	30.00	38.00	5.00	30.00	+0.00 / -0.04	38.00	+0.10 / -0.00	5.70	+0.30 / -0.00	O/R
R030040080RA*	30.00	+0.00 / -0.04	30.00	40.00	8.00	30.00	+0.00 / -0.04	40.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R030043100RA	30.00	+0.00 / -0.04	30.00	43.00	10.00	30.00	+0.00 / -0.04	43.00	+0.10 / -0.00	11.00	+0.30 / -0.00	8.17
R030045090RA	30.00	+0.00 / -0.04	30.00	45.00	9.00	30.00	+0.00 / -0.04	45.00	+0.10 / -0.00	10.00	+0.30 / -0.00	15.88
R030045100RA*	30.00	+0.00 / -0.04	30.00	45.00	10.00	30.00	+0.00 / -0.04	45.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
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	O/R
R034040040RA*	34.00	+0.00 / -0.04	34.00	40.00	4.00	34.00	+0.00 / -0.04	40.00	+0.10 / -0.00	4.70	+0.30 / -0.00	O/R
R034043060RA*	34.00	+0.00 / -0.04	34.00	43.00	6.00	34.00	+0.00 / -0.04	43.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R
R034044060RA*	34.00	+0.00 / -0.04	34.00	44.00	6.00	34.00	+0.00 / -0.04	44.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R
R034050120RA*	34.00	+0.00 / -0.04	34.00	50.00	12.00	34.00	+0.00 / -0.04	50.00	+0.10 / -0.00	13.00	+0.30 / -0.00	O/R
R035041040RA*	35.00	+0.00 / -0.04	35.00	41.00	4.00	35.00	+0.00 / -0.04	41.00	+0.10 / -0.00	4.70	+0.30 / -0.00	O/R
R035043050RA*	35.00	+0.00 / -0.04	35.00	43.00	5.00	35.00	+0.00 / -0.04	43.00	+0.10 / -0.00	5.70	+0.30 / -0.00	O/R
R035045060RA	35.00	+0.00 / -0.04	35.00	45.00	6.00	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	7.00	+0.30 / -0.00	10.27
R035045070RA*	35.00	+0.00 / -0.04	35.00	45.00	7.00	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	8.00	+0.30 / -0.00	O/R
R035045080RA*	35.00	+0.00 / -0.04	35.00	45.00	8.00	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	9.00	+0.30 / -0.00	O/R
R035050090RA*	35.00	+0.00 / -0.04	35.00	50.00	9.00	35.00	+0.00 / -0.04	50.00	+0.10 / -0.00	10.00	+0.30 / -0.00	O/R
R035050100RA*	35.00	+0.00 / -0.04	35.00	50.00	10.00	35.00	+0.00 / -0.04	50.00	+0.10 / -0.00	11.00	+0.30 / -0.00	O/R
R036051100RA*	36.00	+0.00 / -0.04	36.00	51.00	10.00	36.00	+0.00 / -0.04	51.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R038047060RA*	38.00	+0.00 / -0.04	38.00	47.00	6.00	38.00	+0.00 / -0.04	47.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R
R038048060RA*	38.00	+0.00 / -0.04	38.00	48.00	6.00	38.00	+0.00 / -0.04	48.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R
R039048060RA*	39.00	+0.00 / -0.05	39.00	48.00	6.00	39.00	+0.00 / -0.05	48.00	+0.10 / -0.00	7.00	+0.30 / -0.00	O/R
R040048060RA	40.00	+0.00 / -0.05	40.00	48.00	6.00	40.00	+0.00 / -0.05	48.00	+0.10 / -0.00	7.00	+0.30 / -0.00	19.35
R040050060RA	40.00	+0.00 / -0.05	40.00	50.00	6.00	40.00	+0.00 / -0.05	50.00	+0.10 / -0.00	7.00	+0.30 / -0.00	11.26
R040050070RA	40.00	+0.00 / -0.05	40.00	50.00	7.00	40.00	+0.00 / -0.05	50.00	+0.10 / -0.00	8.00	+0.30 / -0.00	12.23
R040055090RA	40.00	+0.00 / -0.05	40.00	55.00	9.00	40.00	+0.00 / -0.05	55.00	+0.12 / -0.00	10.00	+0.30 / -0.00	12.55
R040055100RA	40.00	+0.00 / -0.05	40.00	55.00	10.00	40.00	+0.00 / -0.05	55.00	+0.12 / -0.00	11.00	+0.30 / -0.00	13.59
R040056100RA*	40.00	+0.00 / -0.05	40.00	56.00	10.00	40.00	+0.00 / -0.05	56.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R040056120RA*	40.00	+0.00 / -0.05	40.00	56.00	12.00	40.00	+0.00 / -0.05	56.00	+0.12 / -0.00	13.00	+0.30 / -0.00	O/R

*** : 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.	
R041051060RA*	41.00	+0.00 / -0.05	41.00	51.00	6.00	41.00	+0.00 / -0.05	51.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R042050050RA*	42.00	+0.00 / -0.05	42.00	50.00	5.00	42.00	+0.00 / -0.05	50.00	+0.10 / -0.00	5.70	+0.30 / -0.00	O/R
R042056100RA*	42.00	+0.00 / -0.05	42.00	56.00	10.00	42.00	+0.00 / -0.05	56.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R043053060RA*	43.00	+0.00 / -0.05	43.00	53.00	6.00	43.00	+0.00 / -0.05	53.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R045055060RA	45.00	+0.00 / -0.05	45.00	55.00	6.00	45.00	+0.00 / -0.05	55.00	+0.12 / -0.00	7.00	+0.30 / -0.00	13.29
R045055070RA	45.00	+0.00 / -0.05	45.00	55.00	7.00	45.00	+0.00 / -0.05	55.00	+0.12 / -0.00	8.00	+0.30 / -0.00	12.51
R045055080RA*	45.00	+0.00 / -0.05	45.00	55.00	8.00	45.00	+0.00 / -0.05	55.00	+0.12 / -0.00	9.00	+0.30 / -0.00	O/R
R045060090RA	45.00	+0.00 / -0.05	45.00	60.00	9.00	45.00	+0.00 / -0.05	60.00	+0.12 / -0.00	10.00	+0.30 / -0.00	15.82
R045060100RA	45.00	+0.00 / -0.05	45.00	60.00	10.00	45.00	+0.00 / -0.05	60.00	+0.12 / -0.00	11.00	+0.30 / -0.00	15.82
R045061100RA*	45.00	+0.00 / -0.05	45.00	61.00	10.00	45.00	+0.00 / -0.05	61.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R045061120RA	45.00	+0.00 / -0.05	45.00	61.00	12.00	45.00	+0.00 / -0.05	61.00	+0.12 / -0.00	13.00	+0.30 / -0.00	12.42
R047063120RA*	47.00	+0.00 / -0.05	47.00	63.00	12.00	47.00	+0.00 / -0.05	63.00	+0.12 / -0.00	13.00	+0.30 / -0.00	O/R
R048058060RA*	48.00	+0.00 / -0.05	48.00	58.00	6.00	48.00	+0.00 / -0.05	58.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R049059060RA*	49.00	+0.00 / -0.05	49.00	59.00	6.00	49.00	+0.00 / -0.05	59.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R050060060RA	50.00	+0.00 / -0.05	50.00	60.00	6.00	50.00	+0.00 / -0.05	60.00	+0.12 / -0.00	7.00	+0.30 / -0.00	16.20
R050060080RA	50.00	+0.00 / -0.05	50.00	60.00	8.00	50.00	+0.00 / -0.05	60.00	+0.12 / -0.00	9.00	+0.30 / -0.00	16.20
R050063100RA	50.00	+0.00 / -0.05	50.00	63.00	10.00	50.00	+0.00 / -0.05	63.00	+0.12 / -0.00	11.00	+0.30 / -0.00	15.94
R050065090RA	50.00	+0.00 / -0.05	50.00	65.00	9.00	50.00	+0.00 / -0.05	65.00	+0.12 / -0.00	10.00	+0.30 / -0.00	16.09
R050065100RA	50.00	+0.00 / -0.05	50.00	65.00	10.00	50.00	+0.00 / -0.05	65.00	+0.12 / -0.00	11.00	+0.30 / -0.00	16.09
R050066100RA*	50.00	+0.00 / -0.05	50.00	66.00	10.00	50.00	+0.00 / -0.05	66.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
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	11.29
R050070120RA*	50.00	+0.00 / -0.05	50.00	70.00	12.00	50.00	+0.00 / -0.05	70.00	+0.12 / -0.00	13.00	+0.30 / -0.00	16.21
R052062060RA*	52.00	+0.00 / -0.05	52.00	62.00	6.00	52.00	+0.00 / -0.05	62.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R053063060RA*	53.00	+0.00 / -0.05	53.00	63.00	6.00	53.00	+0.00 / -0.05	63.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R053063080RA*	53.00	+0.00 / -0.05	53.00	63.00	8.00	53.00	+0.00 / -0.05	53.00	+0.12 / -0.00	9.00	+0.30 / -0.00	O/R
R055065060RA	55.00	+0.00 / -0.05	55.00	65.00	6.00	55.00	+0.00 / -0.05	65.00	+0.12 / -0.00	7.00	+0.30 / -0.00	19.74
R055065080RA*	55.00	+0.00 / -0.05	55.00	65.00	8.00	55.00	+0.00 / -0.05	65.00	+0.12 / -0.00	9.00	+0.30 / -0.00	O/R
R055068100RA	55.00	+0.00 / -0.05	55.00	68.00	10.00	55.00	+0.00 / -0.05	68.00	+0.12 / -0.00	11.00	+0.30 / -0.00	37.75
R055070090RA	55.00	+0.00 / -0.05	55.00	70.00	9.00	55.00	+0.00 / -0.05	70.00	+0.12 / -0.00	10.00	+0.30 / -0.00	18.32
R055070100RA	55.00	+0.00 / -0.05	55.00	70.00	10.00	55.00	+0.00 / -0.05	70.00	+0.12 / -0.00	11.00	+0.30 / -0.00	18.32
R055071100RA*	55.00	+0.00 / -0.05	55.00	71.00	10.00	55.00	+0.00 / -0.05	71.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R055075120RA*	55.00	+0.00 / -0.05	55.00	75.00	12.00	55.00	+0.00 / -0.05	75.00	+0.12 / -0.00	13.00	+0.30 / -0.00	O/R
R056066060RA	56.00	+0.00 / -0.05	56.00	66.00	6.00	56.00	+0.00 / -0.05	66.00	+0.12 / -0.00	7.00	+0.30 / -0.00	20.17
R056068060RA*	56.00	+0.00 / -0.05	56.00	68.00	6.00	56.00	+0.00 / -0.05	68.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R056071090RA*	56.00	+0.00 / -0.05	56.00	71.00	9.00	56.00	+0.00 / -0.05	71.00	+0.12 / -0.00	10.00	+0.30 / -0.00	O/R
R056071100RA*	56.00	+0.00 / -0.05	56.00	71.00	10.00	56.00	+0.00 / -0.05	71.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R056072100RA*	56.00	+0.00 / -0.05	56.00	72.00	10.00	56.00	+0.00 / -0.05	72.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R056076120RA*	56.00	+0.00 / -0.05	56.00	76.00	12.00	56.00	+0.00 / -0.05	76.00	+0.12 / -0.00	13.00	+0.30 / -0.00	O/R
R057065050RA*	57.00	+0.00 / -0.05	57.00	65.00	5.00	57.00	+0.00 / -0.05	65.00	+0.12 / -0.00	5.70	+0.30 / -0.00	O/R
R058068060RA*	58.00	+0.00 / -0.05	58.00	68.00	6.00	58.00	+0.00 / -0.05	68.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R058070065RA*	58.00	+0.00 / -0.05	58.00	70.00	6.50	58.00	+0.00 / -0.05	70.00	+0.12 / -0.00	7.50	+0.30 / -0.00	O/R
R060070060RA	60.00	+0.00 / -0.05	60.00	70.00	6.00	60.00	+0.00 / -0.05	70.00	+0.12 / -0.00	7.00	+0.30 / -0.00	20.80
R060070080RA*	60.00	+0.00 / -0.05	60.00	70.00	8.00	60.00	+0.00 / -0.05	70.00	+0.12 / -0.00	9.00	+0.30 / -0.00	O/R
R060071070RA*	60.00	+0.00 / -0.05	60.00	71.00	7.00	60.00	+0.00 / -0.05	71.00	+0.12 / -0.00	8.00	+0.30 / -0.00	O/R
R060073100RA	60.00	+0.00 / -0.05	60.00	73.00	10.00	60.00	+0.00 / -0.05	73.00	+0.12 / -0.00	11.00	+0.30 / -0.00	18.91
R060075090RA	60.00	+0.00 / -0.05	60.00	75.00	9.00	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	10.00	+0.30 / -0.00	18.91
R060075100RA	60.00	+0.00 / -0.05	60.00	75.00	10.00	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	11.00	+0.30 / -0.00	18.91
R060075120RA*	60.00	+0.00 / -0.05	60.00	75.00	12.00	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	13.00	+0.30 / -0.00	O/R

*** : 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.	
R060076100RA*	60.00	+0.00 / -0.05	60.00	76.00	10.00	60.00	+0.00 / -0.05	76.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R060076120RA	60.00	+0.00 / -0.05	60.00	76.00	12.00	60.00	+0.00 / -0.05	76.00	+0.12 / -0.00	13.00	+0.30 / -0.00	20.80
R060080100RA*	60.00	+0.00 / -0.05	60.00	80.00	10.00	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	11.00	+0.30 / -0.00	O/R
R060080120RA*	60.00	+0.00 / -0.05	60.00	80.00	12.00	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	13.00	+0.30 / -0.00	O/R
R061071060RA*	61.00	+0.00 / -0.05	61.00	71.00	6.00	61.00	+0.00 / -0.05	71.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R062072060RA*	62.00	+0.00 / -0.05	62.00	72.00	6.00	62.00	+0.00 / -0.05	72.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R063073060RA*	63.00	+0.00 / -0.05	63.00	73.00	6.00	63.00	+0.00 / -0.05	73.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R063073080RA*	63.00	+0.00 / -0.05	63.00	73.00	8.00	63.00	+0.00 / -0.05	73.00	+0.12 / -0.00	9.00	+0.30 / -0.00	O/R
R063078090RA*	63.00	+0.00 / -0.05	63.00	78.00	9.00	63.00	+0.00 / -0.05	78.00	+0.12 / -0.00	10.00	+0.30 / -0.00	O/R
R063078100RA	63.00	+0.00 / -0.05	63.00	78.00	10.00	63.00	+0.00 / -0.05	78.00	+0.12 / -0.00	11.00	+0.30 / -0.00	21.30
R063079120RA*	63.00	+0.00 / -0.05	63.00	79.00	12.00	63.00	+0.00 / -0.05	79.00	+0.12 / -0.00	13.00	+0.30 / -0.00	O/R
R063083120RA	63.00	+0.00 / -0.05	63.00	83.00	12.00	63.00	+0.00 / -0.05	83.00	+0.14 / -0.00	13.00	+0.30 / -0.00	20.13
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	+0.30 / -0.00	O/R
R065075060RA	65.00	+0.00 / -0.06	65.00	75.00	6.00	65.00	+0.00 / -0.06	75.00	+0.12 / -0.00	7.00	+0.30 / -0.00	14.14
R065075080RA*	65.00	+0.00 / -0.06	65.00	75.00	8.00	65.00	+0.00 / -0.06	75.00	+0.12 / -0.00	9.00	+0.30 / -0.00	O/R
R065078100RA	65.00	+0.00 / -0.06	65.00	78.00	10.00	65.00	+0.00 / -0.06	78.00	+0.12 / -0.00	11.00	+0.30 / -0.00	18.63
R065080090RA	65.00	+0.00 / -0.06	65.00	80.00	9.00	65.00	+0.00 / -0.06	80.00	+0.12 / -0.00	10.00	+0.30 / -0.00	17.51
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	18.64
R065085120RA*	65.00	+0.00 / -0.06	65.00	85.00	12.00	65.00	+0.00 / -0.06	85.00	+0.14 / -0.00	13.00	+0.30 / -0.00	23.42
R067077060RA*	67.00	+0.00 / -0.06	67.00	77.00	6.00	67.00	+0.00 / -0.06	77.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R067082090RA*	67.00	+0.00 / -0.06	67.00	82.00	9.00	67.00	+0.00 / -0.06	82.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R067087150RA*	67.00	+0.00 / -0.06	67.00	87.00	15.00	67.00	+0.00 / -0.06	87.00	+0.14 / -0.00	16.00	+0.30 / -0.00	O/R
R070080060RA*	70.00	+0.00 / -0.06	70.00	80.00	6.00	70.00	+0.00 / -0.06	80.00	+0.12 / -0.00	7.00	+0.30 / -0.00	23.07
R070080080RA	70.00	+0.00 / -0.06	70.00	80.00	8.00	70.00	+0.00 / -0.06	80.00	+0.12 / -0.00	9.00	+0.30 / -0.00	16.92
R070083100RA	70.00	+0.00 / -0.06	70.00	83.00	10.00	70.00	+0.00 / -0.06	83.00	+0.14 / -0.00	11.00	+0.30 / -0.00	18.32
R070085090RA	70.00	+0.00 / -0.06	70.00	85.00	9.00	70.00	+0.00 / -0.06	85.00	+0.14 / -0.00	10.00	+0.30 / -0.00	19.88
R070085100RA	70.00	+0.00 / -0.06	70.00	85.00	10.00	70.00	+0.00 / -0.06	85.00	+0.14 / -0.00	11.00	+0.30 / -0.00	23.07
R070090120RA	70.00	+0.00 / -0.06	70.00	90.00	12.00	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	13.00	+0.30 / -0.00	23.90
R070090150RA*	70.00	+0.00 / -0.06	70.00	90.00	15.00	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	16.00	+0.30 / -0.00	23.90
R071080060RA*	71.00	+0.00 / -0.06	71.00	80.00	6.00	71.00	+0.00 / -0.06	80.00	+0.12 / -0.00	7.00	+0.30 / -0.00	O/R
R071081060RA*	71.00	+0.00 / -0.06	71.00	81.00	6.00	71.00	+0.00 / -0.06	81.00	+0.14 / -0.00	7.00	+0.30 / -0.00	O/R
R071081080RA*	71.00	+0.00 / -0.06	71.00	81.00	8.00	71.00	+0.00 / -0.06	81.00	+0.14 / -0.00	9.00	+0.30 / -0.00	O/R
R071086090RA*	71.00	+0.00 / -0.06	71.00	86.00	9.00	71.00	+0.00 / -0.06	86.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R071086100RA*	71.00	+0.00 / -0.06	71.00	86.00	10.00	71.00	+0.00 / -0.06	86.00	+0.14 / -0.00	11.00	+0.30 / -0.00	O/R
R071091120RA*	71.00	+0.00 / -0.06	71.00	91.00	12.00	71.00	+0.00 / -0.06	91.00	+0.14 / -0.00	13.00	+0.30 / -0.00	O/R
R071091150RA*	71.00	+0.00 / -0.06	71.00	91.00	15.00	71.00	+0.00 / -0.06	91.00	+0.14 / -0.00	16.00	+0.30 / -0.00	O/R
R072082060RA*	72.00	+0.00 / -0.06	72.00	82.00	6.00	72.00	+0.00 / -0.06	82.00	+0.14 / -0.00	7.00	+0.30 / -0.00	O/R
R072087090RA*	72.00	+0.00 / -0.06	72.00	87.00	9.00	72.00	+0.00 / -0.06	87.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R073085055RA*	73.00	+0.00 / -0.06	73.00	85.00	5.50	73.00	+0.00 / -0.06	85.00	+0.14 / -0.00	6.50	+0.30 / -0.00	O/R
R073088090RA*	73.00	+0.00 / -0.06	73.00	88.00	9.00	73.00	+0.00 / -0.06	88.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R075085060RA	75.00	+0.00 / -0.06	75.00	85.00	6.00	75.00	+0.00 / -0.06	85.00	+0.14 / -0.00	7.00	+0.30 / -0.00	29.19
R075085080RA*	75.00	+0.00 / -0.06	75.00	85.00	8.00	75.00	+0.00 / -0.06	85.00	+0.14 / -0.00	9.00	+0.30 / -0.00	O/R
R075085090RA*	75.00	+0.00 / -0.06	75.00	85.00	9.00	75.00	+0.00 / -0.06	85.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R075088100RA	75.00	+0.00 / -0.06	75.00	88.00	10.00	75.00	+0.00 / -0.06	88.00	+0.14 / -0.00	11.00	+0.30 / -0.00	22.29
R075090090RA	75.00	+0.00 / -0.06	75.00	90.00	9.00	75.00	+0.00 / -0.06	90.00	+0.14 / -0.00	10.00	+0.30 / -0.00	21.91
R075090100RA	75.00	+0.00 / -0.06	75.00	90.00	10.00	75.00	+0.00 / -0.06	90.00	+0.14 / -0.00	11.00	+0.30 / -0.00	24.07
R075095120RA	75.00	+0.00 / -0.06	75.00	95.00	12.00	75.00	+0.00 / -0.06	95.00	+0.14 / -0.00	13.00	+0.30 / -0.00	24.07
R075095150RA*	75.00	+0.00 / -0.06	75.00	95.00	15.00	75.00	+0.00 / -0.06	95.00	+0.14 / -0.00	16.00	+0.30 / -0.00	O/R

*** : 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.	
R076088055RA*	76.00	+0.00 / -0.06	76.00	88.00	5.50	76.00	+0.00 / -0.06	88.00	+0.14 / -0.00	6.50	+0.30 / -0.00	O/R
R080090060RA	80.00	+0.00 / -0.09	80.00	90.00	6.00	80.00	+0.00 / -0.09	90.00	+0.14 / -0.00	7.00	+0.30 / -0.00	23.07
R080090080RA*	80.00	+0.00 / -0.09	80.00	90.00	8.00	80.00	+0.00 / -0.09	90.00	+0.14 / -0.00	9.00	+0.30 / -0.00	O/R
R080093090RA*	80.00	+0.00 / -0.09	80.00	93.00	9.00	80.00	+0.00 / -0.09	93.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R080093100RA	80.00	+0.00 / -0.09	80.00	93.00	10.00	80.00	+0.00 / -0.09	93.00	+0.14 / -0.00	11.00	+0.30 / -0.00	24.38
R080095090RA	80.00	+0.00 / -0.09	80.00	95.00	9.00	80.00	+0.00 / -0.09	95.00	+0.14 / -0.00	10.00	+0.30 / -0.00	24.38
R080095100RA	80.00	+0.00 / -0.09	80.00	95.00	10.00	80.00	+0.00 / -0.09	95.00	+0.14 / -0.00	11.00	+0.30 / -0.00	27.20
R080095120RA*	80.00	+0.00 / -0.09	80.00	95.00	12.00	80.00	+0.00 / -0.09	95.00	+0.14 / -0.00	13.00	+0.30 / -0.00	O/R
R080100120RA	80.00	+0.00 / -0.09	80.00	100.00	12.00	80.00	+0.00 / -0.09	100.00	+0.14 / -0.00	13.00	+0.30 / -0.00	26.49
R080100150RA*	80.00	+0.00 / -0.09	80.00	100.00	15.00	80.00	+0.00 / -0.09	100.00	+0.14 / -0.00	16.00	+0.30 / -0.00	O/R
R085100090RA	85.00	+0.00 / -0.09	85.00	100.00	9.00	85.00	+0.00 / -0.09	100.00	+0.14 / -0.00	10.00	+0.30 / -0.00	26.49
R085100100RA	85.00	+0.00 / -0.09	85.00	100.00	10.00	85.00	+0.00 / -0.09	100.00	+0.14 / -0.00	11.00	+0.30 / -0.00	26.57
R085105150RA*	85.00	+0.00 / -0.09	85.00	105.00	15.00	85.00	+0.00 / -0.09	105.00	+0.14 / -0.00	16.00	+0.30 / -0.00	O/R
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	23.07
R090100060RA	90.00	+0.00 / -0.09	90.00	100.00	6.00	90.00	+0.00 / -0.09	100.00	+0.14 / -0.00	7.00	+0.30 / -0.00	23.07
R090105090RA	90.00	+0.00 / -0.09	90.00	105.00	9.00	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	10.00	+0.30 / -0.00	27.88
R090105100RA	90.00	+0.00 / -0.09	90.00	105.00	10.00	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	11.00	+0.30 / -0.00	28.19
R090110120RA	90.00	+0.00 / -0.09	90.00	110.00	12.00	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	13.00	+0.30 / -0.00	19.02
R090110130RA*	90.00	+0.00 / -0.09	90.00	110.00	13.00	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	14.00	+0.30 / -0.00	O/R
R090110150RA*	90.00	+0.00 / -0.09	90.00	110.00	15.00	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	16.00	+0.30 / -0.00	O/R
R092107090RA*	92.00	+0.00 / -0.09	92.00	107.00	9.00	92.00	+0.00 / -0.09	107.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R093108090RA*	93.00	+0.00 / -0.09	93.00	108.00	9.00	93.00	+0.00 / -0.09	108.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R095105120RA*	95.00	+0.00 / -0.09	95.00	105.00	12.00	95.00	+0.00 / -0.09	105.00	+0.14 / -0.00	13.00	+0.30 / -0.00	O/R
R095110090RA	95.00	+0.00 / -0.09	95.00	110.00	9.00	95.00	+0.00 / -0.09	110.00	+0.14 / -0.00	10.00	+0.30 / -0.00	29.50
R095110100RA	95.00	+0.00 / -0.09	95.00	110.00	10.00	95.00	+0.00 / -0.09	110.00	+0.14 / -0.00	11.00	+0.30 / -0.00	29.50
R095115120RA	95.00	+0.00 / -0.09	95.00	115.00	12.00	95.00	+0.00 / -0.09	115.00	+0.14 / -0.00	13.00	+0.30 / -0.00	29.76
R095115150RA*	95.00	+0.00 / -0.09	95.00	115.00	15.00	95.00	+0.00 / -0.09	115.00	+0.14 / -0.00	16.00	+0.30 / -0.00	O/R
R097112090RA*	97.00	+0.00 / -0.09	97.00	112.00	9.00	97.00	+0.00 / -0.09	112.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R098112085RA*	98.00	+0.00 / -0.09	98.00	112.00	8.50	98.00	+0.00 / -0.09	112.00	+0.14 / -0.00	9.50	+0.30 / -0.00	O/R
R098113090RA*	98.00	+0.00 / -0.09	98.00	113.00	9.00	98.00	+0.00 / -0.09	113.00	+0.14 / -0.00	10.00	+0.30 / -0.00	O/R
R100110060RA*	100.00	+0.00 / -0.09	100.00	110.00	6.00	100.00	+0.00 / -0.09	110.00	+0.14 / -0.00	7.00	+0.30 / -0.00	O/R
R100115090RA	100.00	+0.00 / -0.09	100.00	115.00	9.00	100.00	+0.00 / -0.09	115.00	+0.14 / -0.00	10.00	+0.30 / -0.00	34.03
R100115100RA	100.00	+0.00 / -0.09	100.00	115.00	10.00	100.00	+0.00 / -0.09	115.00	+0.14 / -0.00	11.00	+0.30 / -0.00	22.55
R100115120RA	100.00	+0.00 / -0.09	100.00	115.00	12.00	100.00	+0.00 / -0.09	115.00	+0.14 / -0.00	13.00	+0.30 / -0.00	54.80
R100120120RA	100.00	+0.00 / -0.09	100.00	120.00	12.00	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	13.00	+0.30 / -0.00	32.27
R100120130RA	100.00	+0.00 / -0.09	100.00	120.00	13.00	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	14.00	+0.30 / -0.00	27.33
R100120150RA*	100.00	+0.00 / -0.09	100.00	120.00	15.00	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	16.00	+0.30 / -0.00	27.33
R102117100RA*	102.00	+0.00 / -0.09	102.00	117.00	10.00	102.00	+0.00 / -0.09	117.00	+0.14 / -0.00	11.00	+0.30 / -0.00	O/R
R105120090RA	105.00	+0.00 / -0.13	105.00	120.00	9.00	105.00	+0.00 / -0.13	120.00	+0.14 / -0.00	10.00	+0.30 / -0.00	35.69
R105120100RA	105.00	+0.00 / -0.13	105.00	120.00	10.00	105.00	+0.00 / -0.13	120.00	+0.14 / -0.00	11.00	+0.30 / -0.00	62.23
R105125120RA	105.00	+0.00 / -0.13	105.00	125.00	12.00	105.00	+0.00 / -0.13	125.00	+0.16 / -0.00	13.00	+0.30 / -0.00	40.08
R105125150RA	105.00	+0.00 / -0.13	105.00	125.00	15.00	105.00	+0.00 / -0.13	125.00	+0.16 / -0.00	16.00	+0.30 / -0.00	38.79
R105125160RA*	105.00	+0.00 / -0.13	105.00	125.00	16.00	105.00	+0.00 / -0.13	125.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R106120085RA*	106.00	+0.00 / -0.13	106.00	120.00	8.50	106.00	+0.00 / -0.13	120.00	+0.14 / -0.00	9.50	+0.30 / -0.00	O/R
R106121090RA*	106.00	+0.00 / -0.13	106.00	121.00	9.00	106.00	+0.00 / -0.13	121.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R106121100RA*	106.00	+0.00 / -0.13	106.00	121.00	10.00	106.00	+0.00 / -0.13	121.00	+0.16 / -0.00	11.00	+0.30 / -0.00	O/R
R106126150RA*	106.00	+0.00 / -0.13	106.00	126.00	15.00	106.00	+0.00 / -0.13	126.00	+0.16 / -0.00	16.00	+0.30 / -0.00	O/R
R106126160RA*	106.00	+0.00 / -0.13	106.00	126.00	16.00	106.00	+0.00 / -0.13	126.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R

*** : 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.	
R107122100RA*	107.00	+0.00 / -0.13	107.00	122.00	10.00	107.00	+0.00 / -0.13	122.00	+0.16 / -0.00	11.00	+0.30 / -0.00	O/R
R110120065RA*	110.00	+0.00 / -0.13	110.00	120.00	6.50	110.00	+0.00 / -0.13	120.00	+0.14 / -0.00	7.50	+0.30 / -0.00	O/R
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	O/R
R110125090RA	110.00	+0.00 / -0.13	110.00	125.00	9.00	110.00	+0.00 / -0.13	125.00	+0.16 / -0.00	10.00	+0.30 / -0.00	40.99
R110125100RA	110.00	+0.00 / -0.13	110.00	125.00	10.00	110.00	+0.00 / -0.13	125.00	+0.16 / -0.00	11.00	+0.30 / -0.00	41.72
R110130100RA	110.00	+0.00 / -0.13	110.00	130.00	10.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	11.00	+0.30 / -0.00	42.52
R110130120RA	110.00	+0.00 / -0.13	110.00	130.00	12.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	13.00	+0.30 / -0.00	43.05
R110130130RA*	110.00	+0.00 / -0.13	110.00	130.00	13.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	14.00	+0.30 / -0.00	O/R
R110130150RA*	110.00	+0.00 / -0.13	110.00	130.00	15.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	16.00	+0.30 / -0.00	O/R
R110130160RA*	110.00	+0.00 / -0.13	110.00	130.00	16.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R111121060RA*	111.00	+0.00 / -0.13	111.00	121.00	6.00	111.00	+0.00 / -0.13	121.00	+0.16 / -0.00	7.00	+0.30 / -0.00	O/R
R111126090RA*	111.00	+0.00 / -0.13	111.00	126.00	9.00	111.00	+0.00 / -0.13	126.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R112125090RA*	112.00	+0.00 / -0.13	112.00	125.00	9.00	112.00	+0.00 / -0.13	125.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R112127090RA*	112.00	+0.00 / -0.13	112.00	127.00	9.00	112.00	+0.00 / -0.13	127.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R112127100RA*	112.00	+0.00 / -0.13	112.00	127.00	10.00	112.00	+0.00 / -0.13	127.00	+0.16 / -0.00	11.00	+0.30 / -0.00	O/R
R112132150RA	112.00	+0.00 / -0.13	112.00	132.00	15.00	112.00	+0.00 / -0.13	132.00	+0.16 / -0.00	16.00	+0.30 / -0.00	47.05
R112132160RA*	112.00	+0.00 / -0.13	112.00	132.00	16.00	112.00	+0.00 / -0.13	132.00	+0.16 / -0.00	17.00	+0.30 / -0.00	38.57
R112135150RA*	112.00	+0.00 / -0.13	112.00	135.00	15.00	112.00	+0.00 / -0.13	135.00	+0.16 / -0.00	16.00	+0.30 / -0.00	O/R
R115130090RA	115.00	+0.00 / -0.13	115.00	130.00	9.00	115.00	+0.00 / -0.13	130.00	+0.16 / -0.00	10.00	+0.30 / -0.00	44.81
R115130100RA*	115.00	+0.00 / -0.13	115.00	130.00	10.00	115.00	+0.00 / -0.13	130.00	+0.16 / -0.00	11.00	+0.30 / -0.00	O/R
R115135120RA	115.00	+0.00 / -0.13	115.00	135.00	12.00	115.00	+0.00 / -0.13	135.00	+0.16 / -0.00	13.00	+0.30 / -0.00	O/R
R115135160RA*	115.00	+0.00 / -0.13	115.00	135.00	16.00	115.00	+0.00 / -0.13	135.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R116131090RA*	116.00	+0.00 / -0.13	116.00	131.00	9.00	116.00	+0.00 / -0.13	131.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R117133085RA*	117.00	+0.00 / -0.13	117.00	133.00	8.50	117.00	+0.00 / -0.13	133.00	+0.16 / -0.00	9.50	+0.30 / -0.00	O/R
R118128060RA*	118.00	+0.00 / -0.13	118.00	128.00	6.00	118.00	+0.00 / -0.13	128.00	+0.16 / -0.00	7.00	+0.30 / -0.00	O/R
R118133090RA	118.00	+0.00 / -0.13	118.00	133.00	9.00	118.00	+0.00 / -0.13	133.00	+0.16 / -0.00	10.00	+0.30 / -0.00	49.39
R118133100RA*	118.00	+0.00 / -0.13	118.00	133.00	10.00	118.00	+0.00 / -0.13	133.00	+0.16 / -0.00	11.00	+0.30 / -0.00	O/R
R118138150RA*	118.00	+0.00 / -0.13	118.00	138.00	15.00	118.00	+0.00 / -0.13	138.00	+0.16 / -0.00	16.00	+0.30 / -0.00	O/R
R118138160RA*	118.00	+0.00 / -0.13	118.00	138.00	16.00	118.00	+0.00 / -0.13	138.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R120135090RA	120.00	+0.00 / -0.13	120.00	135.00	9.00	120.00	+0.00 / -0.13	135.00	+0.16 / -0.00	10.00	+0.30 / -0.00	6.24
R120135100RA	120.00	+0.00 / -0.13	120.00	135.00	10.00	120.00	+0.00 / -0.13	135.00	+0.16 / -0.00	11.00	+0.30 / -0.00	50.38
R120140100RA	120.00	+0.00 / -0.13	120.00	140.00	10.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	11.00	+0.30 / -0.00	47.45
R120140120RA	120.00	+0.00 / -0.13	120.00	140.00	12.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	13.00	+0.30 / -0.00	49.99
R120140130RA*	120.00	+0.00 / -0.13	120.00	140.00	13.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	14.00	+0.30 / -0.00	O/R
R120140150RA*	120.00	+0.00 / -0.13	120.00	140.00	15.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	16.00	+0.30 / -0.00	O/R
R120140160RA*	120.00	+0.00 / -0.13	120.00	140.00	16.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R125135060RA*	125.00	+0.00 / -0.13	125.00	135.00	6.00	125.00	+0.00 / -0.13	135.00	+0.16 / -0.00	7.00	+0.30 / -0.00	O/R
R125140100RA	125.00	+0.00 / -0.13	125.00	140.00	10.00	125.00	+0.00 / -0.13	140.00	+0.16 / -0.00	11.00	+0.30 / -0.00	38.57
R125145120RA	125.00	+0.00 / -0.13	125.00	145.00	12.00	125.00	+0.00 / -0.13	145.00	+0.16 / -0.00	13.00	+0.30 / -0.00	30.48
R125145160RA*	125.00	+0.00 / -0.13	125.00	145.00	16.00	125.00	+0.00 / -0.13	145.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R125150190RA*	125.00	+0.00 / -0.13	125.00	150.00	19.00	125.00	+0.00 / -0.13	150.00	+0.16 / -0.00	20.00	+0.30 / -0.00	O/R
R125150200RA*	125.00	+0.00 / -0.13	125.00	150.00	20.00	125.00	+0.00 / -0.13	150.00	+0.16 / -0.00	21.00	+0.30 / -0.00	O/R
R130140060RA*	130.00	+0.00 / -0.13	130.00	140.00	6.00	130.00	+0.00 / -0.13	140.00	+0.16 / -0.00	7.00	+0.30 / -0.00	O/R
R130145090RA	130.00	+0.00 / -0.13	130.00	145.00	9.00	130.00	+0.00 / -0.13	145.00	+0.16 / -0.00	10.00	+0.30 / -0.00	40.73
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	104.71
R130150090RA*	130.00	+0.00 / -0.13	130.00	150.00	9.00	130.00	+0.00 / -0.13	150.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R130150120RA	130.00	+0.00 / -0.13	130.00	150.00	12.00	130.00	+0.00 / -0.13	150.00	+0.16 / -0.00	13.00	+0.30 / -0.00	47.43
R130150130RA*	130.00	+0.00 / -0.13	130.00	150.00	13.00	130.00	+0.00 / -0.13	150.00	+0.16 / -0.00	14.00	+0.30 / -0.00	O/R

*** : 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.	
R130150160RA*	130.00	+0.00 / -0.13	130.00	150.00	16.00	130.00	+0.00 / -0.13	150.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R130155195RA*	130.00	+0.00 / -0.13	130.00	155.00	19.50	130.00	+0.00 / -0.13	155.00	+0.16 / -0.00	20.50	+0.30 / -0.00	O/R
R132157200RA*	132.00	+0.00 / -0.13	132.00	157.00	20.00	132.00	+0.00 / -0.13	157.00	+0.16 / -0.00	21.00	+0.30 / -0.00	O/R
R135150130RA*	135.00	+0.00 / -0.13	135.00	150.00	13.00	135.00	+0.00 / -0.13	150.00	+0.16 / -0.00	14.00	+0.30 / -0.00	O/R
R135155120RA*	135.00	+0.00 / -0.13	135.00	155.00	12.00	135.00	+0.00 / -0.13	155.00	+0.16 / -0.00	13.00	+0.30 / -0.00	O/R
R135155150RA*	135.00	+0.00 / -0.13	135.00	155.00	15.00	135.00	+0.00 / -0.13	155.00	+0.16 / -0.00	16.00	+0.30 / -0.00	O/R
R135155160RA*	135.00	+0.00 / -0.13	135.00	155.00	16.00	135.00	+0.00 / -0.13	155.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R135160190RA*	135.00	+0.00 / -0.13	135.00	160.00	19.00	135.00	+0.00 / -0.13	160.00	+0.16 / -0.00	20.00	+0.30 / -0.00	O/R
R136150085RA*	136.00	+0.00 / -0.13	136.00	150.00	8.50	136.00	+0.00 / -0.13	150.00	+0.16 / -0.00	9.50	+0.30 / -0.00	O/R
R140150060RA*	140.00	+0.00 / -0.13	140.00	150.00	6.00	140.00	+0.00 / -0.13	150.00	+0.16 / -0.00	7.00	+0.30 / -0.00	O/R
R140150070RA*	140.00	+0.00 / -0.13	140.00	150.00	7.00	140.00	+0.00 / -0.13	150.00	+0.16 / -0.00	8.00	+0.30 / -0.00	O/R
R140155090RA	140.00	+0.00 / -0.13	140.00	155.00	9.00	140.00	+0.00 / -0.13	155.00	+0.16 / -0.00	10.00	+0.30 / -0.00	34.14
R140155100RA	140.00	+0.00 / -0.13	140.00	155.00	10.00	140.00	+0.00 / -0.13	155.00	+0.16 / -0.00	11.00	+0.30 / -0.00	57.64
R140160090RA*	140.00	+0.00 / -0.13	140.00	160.00	9.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R140160120RA	140.00	+0.00 / -0.13	140.00	160.00	12.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	13.00	+0.30 / -0.00	53.73
R140160130RA	140.00	+0.00 / -0.13	140.00	160.00	13.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	14.00	+0.30 / -0.00	62.76
R140160160RA*	140.00	+0.00 / -0.13	140.00	160.00	16.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	17.00	+0.30 / -0.00	62.76
R140165120RA*	140.00	+0.00 / -0.13	140.00	165.00	12.00	140.00	+0.00 / -0.13	165.00	+0.16 / -0.00	13.00	+0.30 / -0.00	O/R
R140165190RA*	140.00	+0.00 / -0.13	140.00	165.00	19.00	140.00	+0.00 / -0.13	165.00	+0.16 / -0.00	20.00	+0.30 / -0.00	O/R
R140165200RA*	140.00	+0.00 / -0.13	140.00	165.00	20.00	140.00	+0.00 / -0.13	165.00	+0.16 / -0.00	21.00	+0.30 / -0.00	O/R
R143157090RA*	143.00	+0.00 / -0.13	143.00	157.00	9.00	143.00	+0.00 / -0.13	157.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R143158090RA*	143.00	+0.00 / -0.13	143.00	158.00	9.00	143.00	+0.00 / -0.13	158.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R145160090RA	145.00	+0.00 / -0.13	145.00	160.00	9.00	145.00	+0.00 / -0.13	160.00	+0.16 / -0.00	10.00	+0.30 / -0.00	93.54
R145160100RA	145.00	+0.00 / -0.13	145.00	160.00	10.00	145.00	+0.00 / -0.13	160.00	+0.16 / -0.00	11.00	+0.30 / -0.00	96.06
R145170190RA*	145.00	+0.00 / -0.13	145.00	170.00	19.00	145.00	+0.00 / -0.13	170.00	+0.16 / -0.00	20.00	+0.30 / -0.00	O/R
R145170200RA*	145.00	+0.00 / -0.13	145.00	170.00	20.00	145.00	+0.00 / -0.13	170.00	+0.16 / -0.00	21.00	+0.30 / -0.00	O/R
R150165090RA	150.00	+0.00 / -0.13	150.00	165.00	9.00	150.00	+0.00 / -0.13	165.00	+0.16 / -0.00	10.00	+0.30 / -0.00	115.47
R150165100RA	150.00	+0.00 / -0.13	150.00	165.00	10.00	150.00	+0.00 / -0.13	165.00	+0.16 / -0.00	11.00	+0.30 / -0.00	78.98
R150170120RA	150.00	+0.00 / -0.13	150.00	170.00	12.00	150.00	+0.00 / -0.13	170.00	+0.16 / -0.00	13.00	+0.30 / -0.00	114.98
R150170160RA*	150.00	+0.00 / -0.13	150.00	170.00	16.00	150.00	+0.00 / -0.13	170.00	+0.16 / -0.00	17.00	+0.30 / -0.00	O/R
R150175160RA*	150.00	+0.00 / -0.13	150.00	175.00	16.00	150.00	+0.00 / -0.13	175.00	+0.16 / -0.00	17.00	+0.30 / -0.00	81.20
R150175200RA*	150.00	+0.00 / -0.13	150.00	175.00	20.00	150.00	+0.00 / -0.13	175.00	+0.16 / -0.00	21.00	+0.30 / -0.00	O/R
R155165060RA*	155.00	+0.00 / -0.13	155.00	165.00	6.00	155.00	+0.00 / -0.13	165.00	+0.16 / -0.00	7.00	+0.30 / -0.00	O/R
R155170090RA*	155.00	+0.00 / -0.13	155.00	170.00	9.00	155.00	+0.00 / -0.13	170.00	+0.16 / -0.00	10.00	+0.30 / -0.00	107.10
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	O/R
R155180190RA*	155.00	+0.00 / -0.13	155.00	180.00	19.00	155.00	+0.00 / -0.13	180.00	+0.16 / -0.00	20.00	+0.30 / -0.00	149.34
R157175100RA*	157.00	+0.00 / -0.13	157.00	175.00	10.00	157.00	+0.00 / -0.13	175.00	+0.16 / -0.00	11.00	+0.30 / -0.00	O/R
R160175090RA*	160.00	+0.00 / -0.13	160.00	175.00	9.00	160.00	+0.00 / -0.13	175.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R160175100RA*	160.00	+0.00 / -0.13	160.00	175.00	10.00	160.00	+0.00 / -0.13	175.00	+0.16 / -0.00	11.00	+0.30 / -0.00	O/R
R160180120RA	160.00	+0.00 / -0.13	160.00	180.00	12.00	160.00	+0.00 / -0.13	180.00	+0.16 / -0.00	13.00	+0.30 / -0.00	75.27
R160180160RA*	160.00	+0.00 / -0.13	160.00	180.00	16.00	160.00	+0.00 / -0.13	180.00	+0.16 / -0.00	17.00	+0.30 / -0.00	77.26
R160185160RA	160.00	+0.00 / -0.13	160.00	185.00	16.00	160.00	+0.00 / -0.13	185.00	+0.18 / -0.00	17.00	+0.30 / -0.00	77.26
R160185190RA*	160.00	+0.00 / -0.13	160.00	185.00	19.00	160.00	+0.00 / -0.13	185.00	+0.18 / -0.00	20.00	+0.30 / -0.00	O/R
R160185200RA*	160.00	+0.00 / -0.13	160.00	185.00	20.00	160.00	+0.00 / -0.13	185.00	+0.18 / -0.00	21.00	+0.30 / -0.00	O/R
R165180090RA*	165.00	+0.00 / -0.13	165.00	180.00	9.00	165.00	+0.00 / -0.13	180.00	+0.16 / -0.00	10.00	+0.30 / -0.00	O/R
R170180060RA*	170.00	+0.00 / -0.13	170.00	180.00	6.00	170.00	+0.00 / -0.13	180.00	+0.16 / -0.00	7.00	+0.30 / -0.00	O/R
R170185090RA*	170.00	+0.00 / -0.13	170.00	185.00	9.00	170.00	+0.00 / -0.13	185.00	+0.18 / -0.00	10.00	+0.30 / -0.00	114.39
R170185100RA*	170.00	+0.00 / -0.13	170.00	185.00	10.00	170.00	+0.00 / -0.13	185.00	+0.18 / -0.00	11.00	+0.30 / -0.00	122.54

*** : 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.	
R170190120RA	170.00	+0.00 / -0.13	170.00	190.00	12.00	170.00	+0.00 / -0.13	190.00	+0.18 / -0.00	13.00	+0.30 / -0.00	114.39
R170190160RA	170.00	+0.00 / -0.13	170.00	190.00	16.00	170.00	+0.00 / -0.13	190.00	+0.18 / -0.00	17.00	+0.30 / -0.00	122.54
R170195090RA*	170.00	+0.00 / -0.13	170.00	195.00	9.00	170.00	+0.00 / -0.13	195.00	+0.18 / -0.00	10.00	+0.30 / -0.00	122.54
R170195160RA	170.00	+0.00 / -0.13	170.00	195.00	16.00	170.00	+0.00 / -0.13	195.00	+0.18 / -0.00	17.00	+0.30 / -0.00	73.97
R170195200RA*	170.00	+0.00 / -0.13	170.00	195.00	20.00	170.00	+0.00 / -0.13	195.00	+0.18 / -0.00	21.00	+0.30 / -0.00	O/R
R175190090RA	175.00	+0.00 / -0.13	175.00	190.00	9.00	175.00	+0.00 / -0.13	190.00	+0.18 / -0.00	10.00	+0.30 / -0.00	121.63
R175200120RA*	175.00	+0.00 / -0.13	175.00	200.00	12.00	175.00	+0.00 / -0.13	200.00	+0.18 / -0.00	13.00	+0.30 / -0.00	O/R
R175200190RA*	175.00	+0.00 / -0.13	175.00	200.00	19.00	175.00	+0.00 / -0.13	200.00	+0.18 / -0.00	20.00	+0.30 / -0.00	122.54
R180200120RA*	180.00	+0.00 / -0.13	180.00	200.00	12.00	180.00	+0.00 / -0.13	200.00	+0.18 / -0.00	13.00	+0.30 / -0.00	O/R
R180200160RA*	180.00	+0.00 / -0.13	180.00	200.00	16.00	180.00	+0.00 / -0.13	200.00	+0.18 / -0.00	17.00	+0.30 / -0.00	127.48
R180205160RA	180.00	+0.00 / -0.13	180.00	205.00	16.00	180.00	+0.00 / -0.13	205.00	+0.18 / -0.00	17.00	+0.30 / -0.00	94.19
R180205190RA*	180.00	+0.00 / -0.13	180.00	205.00	19.00	180.00	+0.00 / -0.13	205.00	+0.18 / -0.00	20.00	+0.30 / -0.00	O/R
R180205200RA*	180.00	+0.00 / -0.13	180.00	205.00	20.00	180.00	+0.00 / -0.13	205.00	+0.18 / -0.00	21.00	+0.30 / -0.00	O/R
R190210120RA*	190.00	+0.00 / -0.13	190.00	210.00	12.00	190.00	+0.00 / -0.13	210.00	+0.18 / -0.00	13.00	+0.30 / -0.00	O/R
R190210150RA*	190.00	+0.00 / -0.13	190.00	210.00	15.00	190.00	+0.00 / -0.13	210.00	+0.18 / -0.00	16.00	+0.30 / -0.00	O/R
R190210160RA*	190.00	+0.00 / -0.13	190.00	210.00	16.00	190.00	+0.00 / -0.13	210.00	+0.18 / -0.00	17.00	+0.30 / -0.00	O/R
R190215160RA*	190.00	+0.00 / -0.13	190.00	215.00	16.00	190.00	+0.00 / -0.13	215.00	+0.18 / -0.00	17.00	+0.30 / -0.00	O/R
R190215200RA*	190.00	+0.00 / -0.13	190.00	215.00	20.00	190.00	+0.00 / -0.13	215.00	+0.18 / -0.00	21.00	+0.30 / -0.00	O/R
R200220120RA*	200.00	+0.00 / -0.13	200.00	220.00	12.00	200.00	+0.00 / -0.13	220.00	+0.18 / -0.00	13.00	+0.30 / -0.00	165.13
R200220160RA*	200.00	+0.00 / -0.13	200.00	220.00	16.00	200.00	+0.00 / -0.13	220.00	+0.18 / -0.00	17.00	+0.30 / -0.00	O/R
R200225160RA	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	165.13
R200225190RA*	200.00	+0.00 / -0.13	200.00	225.00	19.00	200.00	+0.00 / -0.13	225.00	+0.18 / -0.00	20.00	+0.30 / -0.00	156.81
R200225200RA*	200.00	+0.00 / -0.13	200.00	225.00	20.00	200.00	+0.00 / -0.13	225.00	+0.18 / -0.00	21.00	+0.30 / -0.00	156.81
R210220065RA*	210.00	+0.00 / -0.13	210.00	220.00	6.50	210.00	+0.00 / -0.13	220.00	+0.18 / -0.00	7.50	+0.30 / -0.00	O/R
R210235150RA	210.00	+0.00 / -0.13	210.00	235.00	15.00	210.00	+0.00 / -0.13	235.00	+0.18 / -0.00	16.00	+0.30 / -0.00	324.11
R210235190RA*	210.00	+0.00 / -0.13	210.00	235.00	19.00	210.00	+0.00 / -0.13	235.00	+0.18 / -0.00	20.00	+0.30 / -0.00	O/R
R210235200RA*	210.00	+0.00 / -0.13	210.00	235.00	20.00	210.00	+0.00 / -0.13	235.00	+0.18 / -0.00	21.00	+0.30 / -0.00	O/R
R220240120RA*	220.00	+0.00 / -0.13	220.00	240.00	12.00	220.00	+0.00 / -0.13	240.00	+0.18 / -0.00	13.00	+0.30 / -0.00	180.94
R220240160RA*	220.00	+0.00 / -0.13	220.00	240.00	16.00	220.00	+0.00 / -0.13	240.00	+0.18 / -0.00	17.00	+0.30 / -0.00	O/R
R220240190RA*	220.00	+0.00 / -0.13	220.00	240.00	19.00	220.00	+0.00 / -0.13	240.00	+0.18 / -0.00	20.00	+0.30 / -0.00	O/R
R220240200RA*	220.00	+0.00 / -0.13	220.00	240.00	20.00	220.00	+0.00 / -0.13	240.00	+0.18 / -0.00	21.00	+0.30 / -0.00	O/R
R220245160RA*	220.00	+0.00 / -0.13	220.00	245.00	16.00	220.00	+0.00 / -0.13	245.00	+0.18 / -0.00	17.00	+0.30 / -0.00	182.02
R220245190RA*	220.00	+0.00 / -0.13	220.00	245.00	19.00	220.00	+0.00 / -0.13	245.00	+0.18 / -0.00	20.00	+0.30 / -0.00	O/R
R220245200RA*	220.00	+0.00 / -0.13	220.00	245.00	20.00	220.00	+0.00 / -0.13	245.00	+0.18 / -0.00	21.00	+0.30 / -0.00	O/R
R225245120RA*	225.00	+0.00 / -0.13	225.00	245.00	12.00	225.00	+0.00 / -0.13	245.00	+0.18 / -0.00	13.00	+0.30 / -0.00	O/R
R225245160RA*	225.00	+0.00 / -0.13	225.00	245.00	16.00	225.00	+0.00 / -0.13	245.00	+0.18 / -0.00	17.00	+0.30 / -0.00	O/R
R225250160RA*	225.00	+0.00 / -0.13	225.00	250.00	16.00	225.00	+0.00 / -0.13	250.00	+0.18 / -0.00	17.00	+0.30 / -0.00	O/R
R225250190RA*	225.00	+0.00 / -0.13	225.00	250.00	19.00	225.00	+0.00 / -0.13	250.00	+0.18 / -0.00	20.00	+0.30 / -0.00	O/R
R225250200RA*	225.00	+0.00 / -0.13	225.00	250.00	20.00	225.00	+0.00 / -0.13	250.00	+0.21 / -0.00	21.00	+0.30 / -0.00	O/R
R230250120RA*	230.00	+0.00 / -0.13	230.00	250.00	12.00	230.00	+0.00 / -0.13	250.00	+0.18 / -0.00	13.00	+0.30 / -0.00	O/R
R230250160RA*	230.00	+0.00 / -0.13	230.00	250.00	16.00	230.00	+0.00 / -0.13	250.00	+0.18 / -0.00	17.00	+0.30 / -0.00	O/R
R230255150RA*	230.00	+0.00 / -0.13	230.00	255.00	15.00	230.00	+0.00 / -0.13	255.00	+0.21 / -0.00	16.00	+0.30 / -0.00	O/R
R230255160RA*	230.00	+0.00 / -0.13	230.00	255.00	16.00	230.00	+0.00 / -0.13	255.00	+0.21 / -0.00	17.00	+0.30 / -0.00	O/R
R230255190RA*	230.00	+0.00 / -0.13	230.00	255.00	19.00	230.00	+0.00 / -0.13	255.00	+0.21 / -0.00	20.00	+0.30 / -0.00	212.01
R230255200RA*	230.00	+0.00 / -0.13	230.00	255.00	20.00	230.00	+0.00 / -0.13	255.00	+0.21 / -0.00	21.00	+0.30 / -0.00	O/R
R230260190RA	230.00	+0.00 / -0.13	230.00	260.00	19.00	230.00	+0.00 / -0.13	260.00	+0.21 / -0.00	20.00	+0.30 / -0.00	392.97
R240260120RA*	240.00	+0.00 / -0.13	240.00	260.00	12.00	240.00	+0.00 / -0.13	260.00	+0.21 / -0.00	13.00	+0.30 / -0.00	O/R
R240260160RA*	240.00	+0.00 / -0.13	240.00	260.00	16.00	240.00	+0.00 / -0.13	260.00	+0.21 / -0.00	17.00	+0.30 / -0.00	O/R

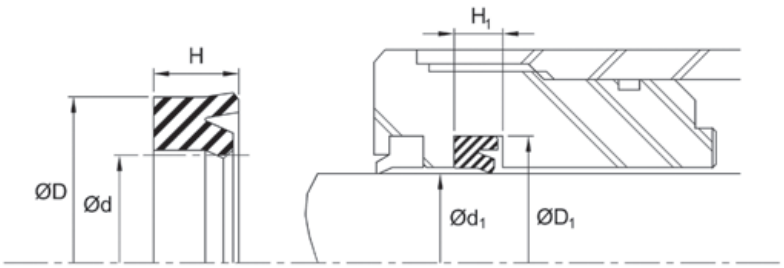
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA SERIES - AU 94A

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R240265160RA*	240.00	+0.00 / -0.13	240.00	265.00	16.00	240.00	+0.00 / -0.13	265.00	+0.21 / -0.00	17.00	+0.30 / -0.00	O/R
R240265190RA*	240.00	+0.00 / -0.13	240.00	265.00	19.00	240.00	+0.00 / -0.13	265.00	+0.21 / -0.00	20.00	+0.30 / -0.00	O/R
R240265200RA*	240.00	+0.00 / -0.13	240.00	265.00	20.00	240.00	+0.00 / -0.13	265.00	+0.21 / -0.00	21.00	+0.30 / -0.00	O/R
R250270120RA*	250.00	+0.00 / -0.13	250.00	270.00	12.00	250.00	+0.00 / -0.13	270.00	+0.21 / -0.00	13.00	+0.30 / -0.00	O/R
R250270160RA*	250.00	+0.00 / -0.13	250.00	270.00	16.00	250.00	+0.00 / -0.13	270.00	+0.21 / -0.00	17.00	+0.30 / -0.00	O/R
R250275160RA*	250.00	+0.00 / -0.13	250.00	275.00	16.00	250.00	+0.00 / -0.13	275.00	+0.21 / -0.00	17.00	+0.30 / -0.00	O/R
R250275190RA*	250.00	+0.00 / -0.13	250.00	275.00	19.00	250.00	+0.00 / -0.13	275.00	+0.21 / -0.00	20.00	+0.30 / -0.00	O/R
R250280190RA	250.00	+0.00 / -0.13	250.00	280.00	19.00	250.00	+0.00 / -0.13	280.00	+0.21 / -0.00	20.00	+0.30 / -0.00	511.49
R250275200RA*	250.00	+0.00 / -0.13	250.00	275.00	20.00	250.00	+0.00 / -0.13	275.00	+0.21 / -0.00	21.00	+0.30 / -0.00	O/R
R260290190RA	260.00	+0.00 / -0.13	260.00	290.00	19.00	260.00	+0.00 / -0.13	290.00	+0.21 / -0.00	20.00	+0.30 / -0.00	222.02
R300330190RA*	300.00	+0.00 / -0.13	300.00	330.00	19.00	300.00	+0.00 / -0.13	330.00	+0.21 / -0.00	20.00	+0.30 / -0.00	486.15

RA/N - Rod Seals

Nitrile NBR 85A



Temperature: -40/212F [-40/100C] **Pressure: 2300 PSI [160 Bar]**

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	1.72
R002007035RA/N*	2.00	+0.00 / -0.04	2.00	7.00	3.50	2.00	+0.00 / -0.04	7.00	+0.09 / -0.00	4.00	+0.20 / -0.00	1.72
R002005017RA/N*	2.50	+0.00 / -0.04	2.50	5.00	1.70	2.50	+0.00 / -0.04	5.00	+0.09 / -0.00	2.20	+0.20 / -0.00	1.83
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	1.83
R004008030RA/N*	4.00	+0.00 / -0.04	4.00	8.00	3.00	4.00	+0.00 / -0.04	8.00	+0.09 / -0.00	3.50	+0.20 / -0.00	1.94
R004009035RA/N*	4.00	+0.00 / -0.04	4.00	9.00	3.50	4.00	+0.00 / -0.04	9.00	+0.09 / -0.00	4.00	+0.20 / -0.00	1.94
R004010042RA/N*	4.00	+0.00 / -0.04	4.00	10.00	4.20	4.00	+0.00 / -0.04	10.00	+0.09 / -0.00	4.70	+0.20 / -0.00	1.94
R004012045RA/N*	4.00	+0.00 / -0.04	4.00	12.00	4.50	4.00	+0.00 / -0.04	12.00	+0.09 / -0.00	5.00	+0.20 / -0.00	2.05
R004012055RA/N	4.00	+0.00 / -0.04	4.00	12.00	5.50	4.00	+0.00 / -0.04	12.00	+0.09 / -0.00	6.00	+0.20 / -0.00	2.16
R005009025RA/N*	5.00	+0.00 / -0.04	5.00	9.00	2.50	5.00	+0.00 / -0.04	9.00	+0.09 / -0.00	3.00	+0.20 / -0.00	2.26
R005010040RA/N*	5.00	+0.00 / -0.04	5.00	10.00	4.00	5.00	+0.00 / -0.04	10.00	+0.09 / -0.00	4.50	+0.20 / -0.00	2.37
R005012045RA/N	5.00	+0.00 / -0.04	5.00	12.00	4.50	5.00	+0.00 / -0.04	12.00	+0.11 / -0.00	5.00	+0.20 / -0.00	8.03
R006010030RA/N*	6.00	+0.00 / -0.04	6.00	10.00	3.00	6.00	+0.00 / -0.04	10.00	+0.09 / -0.00	3.50	+0.20 / -0.00	2.48
R006011032RA/N	6.00	+0.00 / -0.04	6.00	11.50	3.20	6.00	+0.00 / -0.04	11.50	+0.09 / -0.00	4.20	+0.20 / -0.00	7.97
R006012040RA/N*	6.00	+0.00 / -0.04	6.00	12.00	4.00	6.00	+0.00 / -0.04	12.00	+0.11 / -0.00	4.50	+0.20 / -0.00	2.48
R006012042RA/N	6.00	+0.00 / -0.04	6.00	12.00	4.20	6.00	+0.00 / -0.04	12.00	+0.11 / -0.00	4.70	+0.20 / -0.00	2.48
R006013055RA/N*	6.00	+0.00 / -0.04	6.00	13.00	5.50	6.00	+0.00 / -0.04	13.00	+0.11 / -0.00	6.00	+0.20 / -0.00	2.48
R008014040RA/N	8.00	+0.00 / -0.04	8.00	14.00	4.00	8.00	+0.00 / -0.04	14.00	+0.11 / -0.00	4.50	+0.20 / -0.00	2.59
R008014045RA/N*	8.00	+0.00 / -0.04	8.00	14.50	4.50	8.00	+0.00 / -0.04	14.50	+0.11 / -0.00	5.00	+0.20 / -0.00	2.69

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

RA/N SERIES - NBR 85A

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R008016055RA/N	8.00	+0.00 / -0.04	8.00	16.00	5.50	8.00	+0.00 / -0.04	16.00	+0.11 / -0.00	6.00	+0.20 / -0.00	2.69
R008016060RA/N*	8.00	+0.00 / -0.04	8.00	16.00	6.00	8.00	+0.00 / -0.04	16.00	+0.11 / -0.00	6.50	+0.20 / -0.00	2.80
R008018080RA/N*	8.00	+0.00 / -0.04	8.00	18.00	8.00	8.00	+0.00 / -0.04	18.00	+0.11 / -0.00	8.50	+0.20 / -0.00	2.91
R010013023RA/N	10.00	+0.00 / -0.04	10.00	13.60	2.30	10.00	+0.00 / -0.04	13.60	+0.11 / -0.00	2.70	+0.20 / -0.00	3.12
R010015035RA/N*	10.00	+0.00 / -0.04	10.00	15.00	3.50	10.00	+0.00 / -0.04	15.00	+0.11 / -0.00	4.00	+0.20 / -0.00	3.12
R010016045RA/N	10.00	+0.00 / -0.04	10.00	16.00	4.50	10.00	+0.00 / -0.04	16.00	+0.11 / -0.00	5.00	+0.20 / -0.00	3.02
R010016060RA/N	10.00	+0.00 / -0.04	10.00	16.00	6.00	10.00	+0.00 / -0.04	16.00	+0.11 / -0.00	6.50	+0.20 / -0.00	3.12
R010018055RA/N	10.00	+0.00 / -0.04	10.00	18.00	5.50	10.00	+0.00 / -0.04	18.00	+0.11 / -0.00	6.00	+0.20 / -0.00	3.12
R011018045RA/N*	11.00	+0.00 / -0.04	11.00	18.00	4.50	11.00	+0.00 / -0.04	18.00	+0.11 / -0.00	5.00	+0.20 / -0.00	3.12
R012018045RA/N	12.00	+0.00 / -0.04	12.00	18.00	4.50	12.00	+0.00 / -0.04	18.00	+0.11 / -0.00	5.00	+0.20 / -0.00	3.12
R012019045RA/N*	12.00	+0.00 / -0.04	12.00	19.00	4.50	12.00	+0.00 / -0.04	19.00	+0.13 / -0.00	5.00	+0.20 / -0.00	3.23
R012020055RA/N	12.00	+0.00 / -0.04	12.00	20.00	5.50	12.00	+0.00 / -0.04	20.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.12
R012022075RA/N*	12.00	+0.00 / -0.04	12.00	22.00	7.50	12.00	+0.00 / -0.04	22.00	+0.13 / -0.00	8.00	+0.20 / -0.00	3.12
R014022050RA/N*	14.00	+0.00 / -0.04	14.00	22.00	5.00	14.00	+0.00 / -0.04	22.00	+0.13 / -0.00	5.50	+0.20 / -0.00	3.66
R014022055RA/N	14.00	+0.00 / -0.04	14.00	22.00	5.50	14.00	+0.00 / -0.04	22.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.34
R014025080RA/N*	14.00	+0.00 / -0.04	14.00	25.00	8.00	14.00	+0.00 / -0.04	25.00	+0.13 / -0.00	8.50	+0.20 / -0.00	3.66
R015022050RA/N	15.00	+0.00 / -0.04	15.00	22.00	5.00	15.00	+0.00 / -0.04	22.00	+0.13 / -0.00	5.50	+0.20 / -0.00	7.04
R015023060RA/N*	15.00	+0.00 / -0.04	15.00	23.00	6.00	15.00	+0.00 / -0.04	23.00	+0.13 / -0.00	6.50	+0.20 / -0.00	3.66
R016020050RA/N*	16.00	+0.00 / -0.04	16.00	20.50	5.00	16.00	+0.00 / -0.04	20.50	+0.13 / -0.00	5.50	+0.20 / -0.00	3.66
R016022040RA/N	16.00	+0.00 / -0.04	16.00	22.00	4.00	16.00	+0.00 / -0.04	22.00	+0.13 / -0.00	4.50	+0.20 / -0.00	3.66
R016022055RA/N*	16.00	+0.00 / -0.04	16.00	22.00	5.50	16.00	+0.00 / -0.04	22.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.66
R016022045RA/N*	16.00	+0.00 / -0.04	16.00	22.50	4.50	16.00	+0.00 / -0.04	22.50	+0.13 / -0.00	5.00	+0.20 / -0.00	3.66
R016023055RA/N	16.00	+0.00 / -0.04	16.00	23.00	5.50	16.00	+0.00 / -0.04	23.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.66
R016024055RA/N	16.00	+0.00 / -0.04	16.00	24.00	5.50	16.00	+0.00 / -0.04	24.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.66
R016026070RA/N*	16.00	+0.00 / -0.04	16.00	26.00	7.00	16.00	+0.00 / -0.04	26.00	+0.13 / -0.00	7.50	+0.20 / -0.00	3.66
R016026075RA/N*	16.00	+0.00 / -0.04	16.00	26.00	7.50	16.00	+0.00 / -0.04	26.00	+0.13 / -0.00	8.00	+0.20 / -0.00	3.88
R017025055RA/N	17.00	+0.00 / -0.04	17.00	25.00	5.50	17.00	+0.00 / -0.04	25.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.88
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	3.99
R018025045RA/N*	18.00	+0.00 / -0.04	18.00	25.00	4.50	18.00	+0.00 / -0.04	25.00	+0.13 / -0.00	5.00	+0.20 / -0.00	3.99
R018025055RA/N*	18.00	+0.00 / -0.04	18.00	25.00	5.50	18.00	+0.00 / -0.04	25.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.99
R018026055RA/N	18.00	+0.00 / -0.04	18.00	26.00	5.50	18.00	+0.00 / -0.04	26.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.99
R018025055RA/N-1*	18.50	+0.00 / -0.04	18.50	25.50	5.50	18.50	+0.00 / -0.04	25.50	+0.13 / -0.00	6.00	+0.20 / -0.00	3.99
R020026048RA/N	20.00	+0.00 / -0.04	20.00	26.00	4.80	20.00	+0.00 / -0.04	26.00	+0.13 / -0.00	5.30	+0.20 / -0.00	4.31
R020028055RA/N	20.00	+0.00 / -0.04	20.00	28.00	5.50	20.00	+0.00 / -0.04	28.00	+0.13 / -0.00	6.00	+0.20 / -0.00	3.99
R020030060RA/N*	20.00	+0.00 / -0.04	20.00	30.00	6.00	20.00	+0.00 / -0.04	30.00	+0.13 / -0.00	6.50	+0.20 / -0.00	3.99
R020030075RA/N*	20.00	+0.00 / -0.04	20.00	30.00	7.50	20.00	+0.00 / -0.04	30.00	+0.13 / -0.00	8.00	+0.20 / -0.00	3.99
R020030100RA/N*	20.00	+0.00 / -0.04	20.00	30.00	10.00	20.00	+0.00 / -0.04	30.00	+0.13 / -0.00	11.00	+0.20 / -0.00	4.09
R020032060RA/N*	20.00	+0.00 / -0.04	20.00	32.00	6.00	20.00	+0.00 / -0.04	32.00	+0.16 / -0.00	6.50	+0.20 / -0.00	4.20
R020032070RA/N*	20.00	+0.00 / -0.04	20.00	32.00	7.00	20.00	+0.00 / -0.04	32.00	+0.16 / -0.00	7.50	+0.20 / -0.00	4.20
R020032075RA/N*	20.00	+0.00 / -0.04	20.00	32.00	7.50	20.00	+0.00 / -0.04	32.00	+0.16 / -0.00	8.00	+0.20 / -0.00	4.31
R022029055RA/N	22.00	+0.00 / -0.04	22.00	29.00	5.50	22.00	+0.00 / -0.04	29.00	+0.13 / -0.00	6.00	+0.20 / -0.00	4.31
R022030055RA/N	22.00	+0.00 / -0.04	22.00	30.00	5.50	22.00	+0.00 / -0.04	30.00	+0.13 / -0.00	6.00	+0.20 / -0.00	4.31
R022030070RA/N*	22.00	+0.00 / -0.04	22.00	30.00	7.00	22.00	+0.00 / -0.04	30.00	+0.13 / -0.00	7.50	+0.20 / -0.00	4.31
R022032060RA/N*	22.00	+0.00 / -0.04	22.00	32.00	6.00	22.00	+0.00 / -0.04	32.00	+0.16 / -0.00	6.50	+0.20 / -0.00	4.31
R022032070RA/N*	22.00	+0.00 / -0.04	22.00	32.00	7.00	22.00	+0.00 / -0.04	32.00	+0.16 / -0.00	7.50	+0.20 / -0.00	4.31
R022032080RA/N*	22.00	+0.00 / -0.04	22.00	32.00	8.00	22.00	+0.00 / -0.04	32.00	+0.16 / -0.00	8.50	+0.20 / -0.00	4.31
R023031055RA/N*	23.00	+0.00 / -0.04	23.00	31.00	5.50	23.00	+0.00 / -0.04	31.00	+0.16 / -0.00	6.00	+0.20 / -0.00	4.31
R024032055RA/N	24.00	+0.00 / -0.04	24.00	32.00	5.50	24.00	+0.00 / -0.04	32.00	+0.16 / -0.00	6.00	+0.20 / -0.00	4.31

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

RA/N SERIES - NBR 85A

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R025032055RA/N*	25.00	+0.00 / -0.04	25.00	32.00	5.50	25.00	+0.00 / -0.04	32.00	+0.16 / -0.00	6.00	+0.20 / -0.00	5.17
R025032060RA/N*	25.00	+0.00 / -0.04	25.00	32.00	6.00	25.00	+0.00 / -0.04	32.00	+0.16 / -0.00	6.50	+0.20 / -0.00	4.31
R025033055RA/N	25.00	+0.00 / -0.04	25.00	33.00	5.50	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	6.00	+0.20 / -0.00	4.31
R025033100RA/N*	25.00	+0.00 / -0.04	25.00	33.00	10.00	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	11.00	+0.20 / -0.00	4.31
R025035060RA/N*	25.00	+0.00 / -0.04	25.00	35.00	6.00	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	6.50	+0.20 / -0.00	4.31
R025035070RA/N	25.00	+0.00 / -0.04	25.00	35.00	7.00	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	7.50	+0.20 / -0.00	4.31
R025035075RA/N*	25.00	+0.00 / -0.04	25.00	35.00	7.50	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	8.00	+0.20 / -0.00	4.31
R025035080RA/N*	25.00	+0.00 / -0.04	25.00	35.00	8.00	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	8.50	+0.20 / -0.00	4.63
R025035100RA/N*	25.00	+0.00 / -0.04	25.00	35.00	10.00	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	11.00	+0.20 / -0.00	5.06
R025037060RA/N*	25.00	+0.00 / -0.04	25.00	37.00	6.00	25.00	+0.00 / -0.04	37.00	+0.16 / -0.00	6.50	+0.20 / -0.00	5.17
R025040100RA/N*	25.00	+0.00 / -0.04	25.00	40.00	10.00	25.00	+0.00 / -0.04	40.00	+0.16 / -0.00	11.00	+0.20 / -0.00	5.17
R026036070RA/N*	26.00	+0.00 / -0.04	26.00	36.00	7.00	26.00	+0.00 / -0.04	36.00	+0.16 / -0.00	7.50	+0.20 / -0.00	5.28
R028036055RA/N	28.00	+0.00 / -0.04	28.00	36.00	5.50	28.00	+0.00 / -0.04	36.00	+0.16 / -0.00	6.00	+0.20 / -0.00	5.39
R028036057RA/N*	28.00	+0.00 / -0.04	28.00	36.00	5.70	28.00	+0.00 / -0.04	36.00	+0.16 / -0.00	6.20	+0.20 / -0.00	5.50
R028038060RA/N*	28.00	+0.00 / -0.04	28.00	38.00	6.00	28.00	+0.00 / -0.04	38.00	+0.16 / -0.00	6.50	+0.20 / -0.00	5.50
R028038070RA/N	28.00	+0.00 / -0.04	28.00	38.00	7.00	28.00	+0.00 / -0.04	38.00	+0.16 / -0.00	7.50	+0.20 / -0.00	5.50
R028038080RA/N*	28.00	+0.00 / -0.04	28.00	38.00	8.00	28.00	+0.00 / -0.04	38.00	+0.16 / -0.00	8.50	+0.20 / -0.00	5.50
R028038100RA/N*	28.00	+0.00 / -0.04	28.00	38.00	10.00	28.00	+0.00 / -0.04	38.00	+0.16 / -0.00	11.00	+0.20 / -0.00	5.82
R030038055RA/N	30.00	+0.00 / -0.04	30.00	38.00	5.50	30.00	+0.00 / -0.04	38.00	+0.16 / -0.00	6.00	+0.20 / -0.00	5.82
R030038063RA/N*	30.00	+0.00 / -0.04	30.00	38.00	6.30	30.00	+0.00 / -0.04	38.00	+0.16 / -0.00	6.80	+0.20 / -0.00	5.82
R030038080RA/N	30.00	+0.00 / -0.04	30.00	38.00	8.00	30.00	+0.00 / -0.04	38.00	+0.16 / -0.00	8.50	+0.20 / -0.00	5.82
R030040060RA/N	30.00	+0.00 / -0.04	30.00	40.00	6.00	30.00	+0.00 / -0.04	40.00	+0.16 / -0.00	6.50	+0.20 / -0.00	5.93
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	5.93
R030040080RA/N*	30.00	+0.00 / -0.04	30.00	40.00	8.00	30.00	+0.00 / -0.04	40.00	+0.16 / -0.00	8.50	+0.20 / -0.00	5.93
R030042085RA/N	30.00	+0.00 / -0.04	30.00	42.00	8.50	30.00	+0.00 / -0.04	42.00	+0.16 / -0.00	9.50	+0.20 / -0.00	6.03
R032040055RA/N	32.00	+0.00 / -0.04	32.00	40.00	5.50	32.00	+0.00 / -0.04	40.00	+0.16 / -0.00	6.00	+0.20 / -0.00	6.14
R032042070RA/N	32.00	+0.00 / -0.04	32.00	42.00	7.00	32.00	+0.00 / -0.04	42.00	+0.16 / -0.00	7.50	+0.20 / -0.00	6.14
R032045100RA/N*	32.00	+0.00 / -0.04	32.00	45.00	10.00	32.00	+0.00 / -0.04	45.00	+0.16 / -0.00	11.00	+0.20 / -0.00	6.14
R032048080RA/N*	32.00	+0.00 / -0.04	32.00	48.00	8.00	32.00	+0.00 / -0.04	48.00	+0.16 / -0.00	8.50	+0.20 / -0.00	6.14
R033043070RA/N*	33.00	+0.00 / -0.04	33.00	43.00	7.00	33.00	+0.00 / -0.04	43.00	+0.16 / -0.00	7.50	+0.20 / -0.00	6.68
R034044070RA/N*	34.00	+0.00 / -0.04	34.00	44.00	7.00	34.00	+0.00 / -0.04	44.00	+0.16 / -0.00	7.50	+0.20 / -0.00	6.68
R035043080RA/N*	35.00	+0.00 / -0.04	35.00	43.00	8.00	35.00	+0.00 / -0.04	43.00	+0.16 / -0.00	8.50	+0.20 / -0.00	6.68
R035045060RA/N*	35.00	+0.00 / -0.04	35.00	45.00	6.00	35.00	+0.00 / -0.04	45.00	+0.16 / -0.00	6.50	+0.20 / -0.00	6.68
R035045070RA/N	35.00	+0.00 / -0.04	35.00	45.00	7.00	35.00	+0.00 / -0.04	45.00	+0.16 / -0.00	7.50	+0.20 / -0.00	6.68
R035045080RA/N*	35.00	+0.00 / -0.04	35.00	45.00	8.00	35.00	+0.00 / -0.04	45.00	+0.16 / -0.00	8.50	+0.20 / -0.00	6.90
R035050080RA/N*	35.00	+0.00 / -0.04	35.00	50.00	8.00	35.00	+0.00 / -0.04	50.00	+0.16 / -0.00	8.50	+0.20 / -0.00	7.11
R036046070RA/N*	36.00	+0.00 / -0.04	36.00	46.00	7.00	36.00	+0.00 / -0.04	46.00	+0.16 / -0.00	7.50	+0.20 / -0.00	7.11
R036046080RA/N*	36.00	+0.00 / -0.04	36.00	46.00	8.00	36.00	+0.00 / -0.04	46.00	+0.16 / -0.00	8.50	+0.20 / -0.00	7.11
R036046100RA/N*	36.00	+0.00 / -0.04	36.00	46.00	10.00	36.00	+0.00 / -0.04	46.00	+0.16 / -0.00	11.00	+0.20 / -0.00	7.33
R036050100RA/N*	36.00	+0.00 / -0.04	36.00	50.00	10.00	36.00	+0.00 / -0.04	50.00	+0.16 / -0.00	11.00	+0.20 / -0.00	7.33
R038048070RA/N	38.00	+0.00 / -0.04	38.00	48.00	7.00	38.00	+0.00 / -0.04	48.00	+0.16 / -0.00	7.50	+0.20 / -0.00	7.43
R040048055RA/N*	40.00	+0.00 / -0.05	40.00	48.00	5.50	40.00	+0.00 / -0.05	48.00	+0.16 / -0.00	6.00	+0.20 / -0.00	7.43
R040048080RA/N*	40.00	+0.00 / -0.05	40.00	48.00	8.00	40.00	+0.00 / -0.05	48.00	+0.16 / -0.00	8.50	+0.20 / -0.00	7.65
R040050070RA/N	40.00	+0.00 / -0.05	40.00	50.00	7.00	40.00	+0.00 / -0.05	50.00	+0.16 / -0.00	7.50	+0.20 / -0.00	7.76
R040050080RA/N*	40.00	+0.00 / -0.05	40.00	50.00	8.00	40.00	+0.00 / -0.05	50.00	+0.16 / -0.00	8.50	+0.20 / -0.00	7.76
R040050100RA/N*	40.00	+0.00 / -0.05	40.00	50.00	10.00	40.00	+0.00 / -0.05	50.00	+0.16 / -0.00	11.00	+0.20 / -0.00	7.76
R040055100RA/N*	40.00	+0.00 / -0.05	40.00	55.00	10.00	40.00	+0.00 / -0.05	55.00	+0.19 / -0.00	11.00	+0.20 / -0.00	7.97
R042052070RA/N	42.00	+0.00 / -0.05	42.00	52.00	7.00	42.00	+0.00 / -0.05	52.00	+0.19 / -0.00	7.50	+0.20 / -0.00	7.97

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

RA/N SERIES - NBR 85A

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R045055070RA/N	45.00	+0.00 / -0.05	45.00	55.00	7.00	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	7.50	+0.20 / -0.00	8.73
R045055100RA/N*	45.00	+0.00 / -0.05	45.00	55.00	10.00	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	11.00	+0.20 / -0.00	10.34
R045060100RA/N*	45.00	+0.00 / -0.05	45.00	60.00	10.00	45.00	+0.00 / -0.05	60.00	+0.19 / -0.00	11.00	+0.20 / -0.00	10.88
R045061120RA/N*	45.00	+0.00 / -0.05	45.00	61.00	12.00	45.00	+0.00 / -0.05	61.00	+0.19 / -0.00	13.00	+0.20 / -0.00	10.88
R047057070RA/N*	47.00	+0.00 / -0.05	47.00	57.00	7.00	47.00	+0.00 / -0.05	57.00	+0.19 / -0.00	7.50	+0.20 / -0.00	11.10
R048058070RA/N	48.00	+0.00 / -0.05	48.00	58.00	7.00	48.00	+0.00 / -0.05	58.00	+0.19 / -0.00	7.50	+0.20 / -0.00	28.39
R050058080RA/N*	50.00	+0.00 / -0.05	50.00	58.00	8.00	50.00	+0.00 / -0.05	58.00	+0.19 / -0.00	8.50	+0.20 / -0.00	17.56
R050060060RA/N*	50.00	+0.00 / -0.05	50.00	60.00	6.00	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	6.50	+0.20 / -0.00	12.93
R050060070RA/N	50.00	+0.00 / -0.05	50.00	60.00	7.00	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	7.50	+0.20 / -0.00	15.62
R050060100RA/N*	50.00	+0.00 / -0.05	50.00	60.00	10.00	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	11.00	+0.20 / -0.00	17.35
R050063085RA/N*	50.00	+0.00 / -0.05	50.00	63.00	8.50	50.00	+0.00 / -0.05	63.00	+0.19 / -0.00	9.50	+0.20 / -0.00	17.89
R050063120RA/N*	50.00	+0.00 / -0.05	50.00	63.00	12.00	50.00	+0.00 / -0.05	63.00	+0.19 / -0.00	13.00	+0.20 / -0.00	16.13
R054064070RA/N*	54.00	+0.00 / -0.05	54.00	64.00	7.00	54.00	+0.00 / -0.05	64.00	+0.19 / -0.00	7.50	+0.20 / -0.00	21.50
R055065070RA/N*	55.00	+0.00 / -0.05	55.00	65.00	7.00	55.00	+0.00 / -0.05	65.00	+0.19 / -0.00	7.50	+0.20 / -0.00	25.93
R055070100RA/N*	55.00	+0.00 / -0.05	55.00	70.00	10.00	55.00	+0.00 / -0.05	70.00	+0.19 / -0.00	11.00	+0.20 / -0.00	28.79
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	34.98
R060070085RA/N*	60.00	+0.00 / -0.05	60.00	70.00	8.50	60.00	+0.00 / -0.05	70.00	+0.19 / -0.00	9.50	+0.20 / -0.00	48.45
R060070100RA/N*	60.00	+0.00 / -0.05	60.00	70.00	10.00	60.00	+0.00 / -0.05	70.00	+0.19 / -0.00	11.00	+0.20 / -0.00	37.14
R060072085RA/N*	60.00	+0.00 / -0.05	60.00	72.00	8.50	60.00	+0.00 / -0.05	72.00	+0.19 / -0.00	9.50	+0.20 / -0.00	27.10
R060074080RA/N*	60.00	+0.00 / -0.05	60.00	74.00	8.00	60.00	+0.00 / -0.05	74.00	+0.19 / -0.00	8.50	+0.20 / -0.00	38.34
R060075120RA/N*	60.00	+0.00 / -0.05	60.00	75.00	12.00	60.00	+0.00 / -0.05	75.00	+0.19 / -0.00	13.00	+0.20 / -0.00	39.54
R060080140RA/N*	60.00	+0.00 / -0.05	60.00	80.00	14.00	60.00	+0.00 / -0.05	80.00	+0.19 / -0.00	15.00	+0.20 / -0.00	80.20
R063073070RA/N	63.00	+0.00 / -0.05	63.00	73.00	7.00	63.00	+0.00 / -0.05	73.00	+0.19 / -0.00	7.50	+0.20 / -0.00	20.23
R063075085RA/N*	63.00	+0.00 / -0.05	63.00	75.00	8.50	63.00	+0.00 / -0.05	75.00	+0.19 / -0.00	9.50	+0.20 / -0.00	28.88
R063080160RA/N*	63.00	+0.00 / -0.05	63.00	80.00	16.00	63.00	+0.00 / -0.05	80.00	+0.19 / -0.00	17.00	+0.20 / -0.00	35.99
R065075100RA/N*	65.00	+0.00 / -0.06	65.00	75.00	10.00	65.00	+0.00 / -0.06	75.00	+0.19 / -0.00	11.00	+0.20 / -0.00	39.54
R065077085RA/N*	65.00	+0.00 / -0.06	65.00	77.00	8.50	65.00	+0.00 / -0.06	77.00	+0.19 / -0.00	9.50	+0.20 / -0.00	19.00
R068080085RA/N	68.00	+0.00 / -0.06	68.00	80.00	8.50	68.00	+0.00 / -0.06	80.00	+0.19 / -0.00	9.50	+0.20 / -0.00	31.51
R070080120RA/N*	70.00	+0.00 / -0.06	70.00	80.00	12.00	70.00	+0.00 / -0.06	80.00	+0.19 / -0.00	13.00	+0.20 / -0.00	43.13
R070082085RA/N*	70.00	+0.00 / -0.06	70.00	82.00	8.50	70.00	+0.00 / -0.06	82.00	+0.22 / -0.00	9.50	+0.20 / -0.00	43.13
R070085100RA/N*	70.00	+0.00 / -0.06	70.00	85.00	10.00	70.00	+0.00 / -0.06	85.00	+0.22 / -0.00	11.00	+0.20 / -0.00	47.93
R075085120RA/N*	75.00	+0.00 / -0.06	75.00	85.00	12.00	75.00	+0.00 / -0.06	85.00	+0.22 / -0.00	13.00	+0.20 / -0.00	47.92
R080090070RA/N*	80.00	+0.00 / -0.09	80.00	90.00	7.00	80.00	+0.00 / -0.09	90.00	+0.22 / -0.00	7.50	+0.20 / -0.00	45.62
R080090120RA/N*	80.00	+0.00 / -0.09	80.00	90.00	12.00	80.00	+0.00 / -0.09	90.00	+0.22 / -0.00	13.00	+0.20 / -0.00	51.52
R080092075RA/N*	80.00	+0.00 / -0.09	80.00	92.00	7.50	80.00	+0.00 / -0.09	92.00	+0.22 / -0.00	8.00	+0.20 / -0.00	61.65
R080092085RA/N*	80.00	+0.00 / -0.09	80.00	92.00	8.50	80.00	+0.00 / -0.09	92.00	+0.22 / -0.00	9.50	+0.20 / -0.00	28.06
R085095070RA/N*	85.00	+0.00 / -0.09	85.00	95.00	7.00	85.00	+0.00 / -0.09	95.00	+0.22 / -0.00	7.50	+0.20 / -0.00	37.63
R085095120RA/N*	85.00	+0.00 / -0.09	85.00	95.00	12.00	85.00	+0.00 / -0.09	95.00	+0.22 / -0.00	13.00	+0.20 / -0.00	53.91
R085100100RA/N*	85.00	+0.00 / -0.09	85.00	100.00	10.00	85.00	+0.00 / -0.09	100.00	+0.22 / -0.00	11.00	+0.20 / -0.00	59.58
R088100085RA/N*	88.00	+0.00 / -0.09	88.00	100.00	8.50	88.00	+0.00 / -0.09	100.00	+0.22 / -0.00	9.50	+0.20 / -0.00	62.46
R090100120RA/N*	90.00	+0.00 / -0.09	90.00	100.00	12.00	90.00	+0.00 / -0.09	100.00	+0.22 / -0.00	13.00	+0.20 / -0.00	55.11
R090102085RA/N*	90.00	+0.00 / -0.09	90.00	102.00	8.50	90.00	+0.00 / -0.09	102.00	+0.22 / -0.00	9.50	+0.20 / -0.00	20.63
R095105120RA/N*	95.00	+0.00 / -0.09	95.00	105.00	12.00	95.00	+0.00 / -0.09	105.00	+0.22 / -0.00	13.00	+0.20 / -0.00	40.73
R100110070RA/N*	100.00	+0.00 / -0.09	100.00	110.00	7.00	100.00	+0.00 / -0.09	110.00	+0.22 / -0.00	7.50	+0.20 / -0.00	26.32
R100115100RA/N*	100.00	+0.00 / -0.09	100.00	115.00	10.00	100.00	+0.00 / -0.09	115.00	+0.22 / -0.00	11.00	+0.20 / -0.00	26.29
R105120100RA/N*	105.00	+0.00 / -0.13	105.00	120.00	10.00	105.00	+0.00 / -0.13	120.00	+0.22 / -0.00	11.00	+0.20 / -0.00	35.70
R105120120RA/N*	105.00	+0.00 / -0.13	105.00	120.00	12.00	105.00	+0.00 / -0.13	120.00	+0.22 / -0.00	13.00	+0.20 / -0.00	23.05
R110125100RA/N	110.00	+0.00 / -0.13	110.00	125.00	10.00	110.00	+0.00 / -0.13	125.00	+0.25 / -0.00	11.00	+0.20 / -0.00	47.93

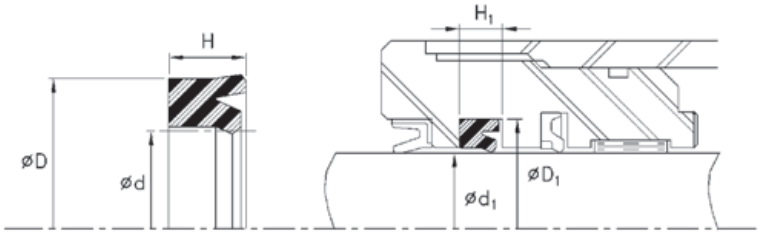
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

RA/N SERIES - NBR 85A

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R110130140RA/N*	110.00	+0.00 / -0.13	110.00	130.00	14.00	110.00	+0.00 / -0.13	130.00	+0.25 / -0.00	15.00	+0.20 / -0.00	27.22
R115125120RA/N*	115.00	+0.00 / -0.13	115.00	125.00	12.00	115.00	+0.00 / -0.13	125.00	+0.25 / -0.00	13.00	+0.20 / -0.00	35.71
R115130100RA/N*	115.00	+0.00 / -0.13	115.00	130.00	10.00	115.00	+0.00 / -0.13	130.00	+0.25 / -0.00	11.00	+0.20 / -0.00	41.09
R120135095RA/N*	120.00	+0.00 / -0.13	120.00	135.00	9.50	120.00	+0.00 / -0.13	135.00	+0.25 / -0.00	10.50	+0.20 / -0.00	53.51
R125140100RA/N*	125.00	+0.00 / -0.13	125.00	140.00	10.00	125.00	+0.00 / -0.13	140.00	+0.25 / -0.00	11.00	+0.20 / -0.00	48.80
R125145140RA/N*	125.00	+0.00 / -0.13	125.00	145.00	14.00	125.00	+0.00 / -0.13	145.00	+0.25 / -0.00	15.00	+0.20 / -0.00	34.41
R135145120RA/N*	135.00	+0.00 / -0.13	135.00	145.00	12.00	135.00	+0.00 / -0.13	145.00	+0.25 / -0.00	13.00	+0.20 / -0.00	51.12
R140160140RA/N*	140.00	+0.00 / -0.13	140.00	160.00	14.00	140.00	+0.00 / -0.13	160.00	+0.25 / -0.00	15.00	+0.20 / -0.00	25.56
R150170140RA/N*	150.00	+0.00 / -0.13	150.00	170.00	14.00	150.00	+0.00 / -0.13	170.00	+0.25 / -0.00	15.00	+0.20 / -0.00	40.28
R155165120RA/N*	155.00	+0.00 / -0.13	155.00	165.00	12.00	155.00	+0.00 / -0.13	165.00	+0.25 / -0.00	13.00	+0.20 / -0.00	65.50
R155170100RA/N*	155.00	+0.00 / -0.13	155.00	170.00	10.00	155.00	+0.00 / -0.13	170.00	+0.25 / -0.00	11.00	+0.20 / -0.00	186.45
R160170120RA/N*	160.00	+0.00 / -0.13	160.00	170.00	12.00	160.00	+0.00 / -0.13	170.00	+0.25 / -0.00	13.00	+0.20 / -0.00	83.86
R160180140RA/N*	160.00	+0.00 / -0.13	160.00	180.00	14.00	160.00	+0.00 / -0.13	180.00	+0.25 / -0.00	15.00	+0.20 / -0.00	60.52
R160184150RA/N*	160.00	+0.00 / -0.13	160.00	184.00	15.00	160.00	+0.00 / -0.13	184.00	+0.29 / -0.00	16.00	+0.20 / -0.00	50.44
R170190140RA/N*	170.00	+0.00 / -0.13	170.00	190.00	14.00	170.00	+0.00 / -0.13	190.00	+0.29 / -0.00	15.00	+0.20 / -0.00	75.21
R180200140RA/N*	180.00	+0.00 / -0.13	180.00	200.00	14.00	180.00	+0.00 / -0.13	200.00	+0.29 / -0.00	15.00	+0.20 / -0.00	86.13
R185195120RA/N*	185.00	+0.00 / -0.13	185.00	195.00	12.00	185.00	+0.00 / -0.13	195.00	+0.29 / -0.00	13.00	+0.20 / -0.00	35.94
R185215200RA/N*	185.00	+0.00 / -0.13	185.00	215.00	20.00	185.00	+0.00 / -0.13	215.00	+0.29 / -0.00	21.00	+0.20 / -0.00	209.62
R210240280RA/N*	210.00	+0.00 / -0.13	210.00	240.00	28.00	210.00	+0.00 / -0.13	240.00	+0.29 / -0.00	29.00	+0.20 / -0.00	157.20
R215225120RA/N*	215.00	+0.00 / -0.13	215.00	225.00	12.00	215.00	+0.00 / -0.13	225.00	+0.29 / -0.00	13.00	+0.20 / -0.00	57.51
R220250200RA/N*	220.00	+0.00 / -0.13	220.00	250.00	20.00	220.00	+0.00 / -0.13	250.00	+0.29 / -0.00	21.00	+0.20 / -0.00	45.31

RA-E - Rod Seals

Polyurethane AU 94A



Temperature: -22/212F [-30/100C] **Pressure: 5800 PSI [400 Bar]**

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	3.49
R006012040RA-E*	6.00	+0.00 / -0.04	6.00	12.00	4.00	6.00	+0.00 / -0.04	12.00	+0.07 / -0.00	4.50	+0.30 / -0.00	3.49
R006013050RA-E*	6.00	+0.00 / -0.04	6.00	13.00	5.00	6.00	+0.00 / -0.04	13.00	+0.07 / -0.00	6.00	+0.30 / -0.00	3.49
R006014058RA-E*	6.00	+0.00 / -0.04	6.00	14.00	5.80	6.00	+0.00 / -0.04	14.00	+0.07 / -0.00	6.80	+0.30 / -0.00	3.49
R008014032RA-E	8.00	+0.00 / -0.04	8.00	14.00	3.20	8.00	+0.00 / -0.04	14.00	+0.07 / -0.00	4.00	+0.30 / -0.00	3.49
R008014040RA-E*	8.00	+0.00 / -0.04	8.00	14.00	4.00	8.00	+0.00 / -0.04	14.00	+0.07 / -0.00	4.50	+0.30 / -0.00	3.49
R008018080RA-E	8.00	+0.00 / -0.04	8.00	18.00	8.00	8.00	+0.00 / -0.04	18.00	+0.07 / -0.00	9.00	+0.30 / -0.00	4.13
R010014040RA-E*	10.00	+0.00 / -0.04	10.00	14.00	4.00	10.00	+0.00 / -0.04	14.00	+0.07 / -0.00	4.50	+0.30 / -0.00	4.13
R010016045RA-E*	10.00	+0.00 / -0.04	10.00	16.00	4.50	10.00	+0.00 / -0.04	16.00	+0.07 / -0.00	5.00	+0.30 / -0.00	4.29

*** : 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.	
R010018057RA-E	10.00	+0.00 / -0.04	10.00	18.00	5.70	10.00	+0.00 / -0.04	18.00	+0.07 / -0.00	6.30	+0.30 / -0.00	4.29
R010020045RA-E*	10.00	+0.00 / -0.04	10.00	20.00	4.50	10.00	+0.00 / -0.04	20.00	+0.07 / -0.00	5.00	+0.30 / -0.00	5.24
R012016030RA-E*	12.00	+0.00 / -0.04	12.00	16.00	3.00	12.00	+0.00 / -0.04	16.00	+0.08 / -0.00	3.50	+0.30 / -0.00	4.29
R012017037RA-E*	12.00	+0.00 / -0.04	12.00	17.00	3.70	12.00	+0.00 / -0.04	17.00	+0.08 / -0.00	4.20	+0.30 / -0.00	4.29
R012020055RA-E*	12.00	+0.00 / -0.04	12.00	20.00	5.50	12.00	+0.00 / -0.04	20.00	+0.08 / -0.00	6.50	+0.30 / -0.00	4.25
R012022050RA-E*	12.00	+0.00 / -0.04	12.00	22.00	5.00	12.00	+0.00 / -0.04	22.00	+0.08 / -0.00	6.00	+0.30 / -0.00	5.24
R012022075RA-E*	12.00	+0.00 / -0.04	12.00	22.00	7.50	12.00	+0.00 / -0.04	22.00	+0.08 / -0.00	8.50	+0.30 / -0.00	5.24
R012022080RA-E*	12.00	+0.00 / -0.04	12.00	22.00	8.00	12.00	+0.00 / -0.04	22.00	+0.08 / -0.00	9.00	+0.30 / -0.00	5.24
R014024080RA-E*	14.00	+0.00 / -0.04	14.00	24.00	8.00	14.00	+0.00 / -0.04	24.00	+0.08 / -0.00	9.00	+0.30 / -0.00	5.39
R015023060RA-E*	15.00	+0.00 / -0.04	15.00	23.00	6.00	15.00	+0.00 / -0.04	23.00	+0.08 / -0.00	7.00	+0.30 / -0.00	5.56
R016022050RA-E*	16.00	+0.00 / -0.04	16.00	22.00	5.00	16.00	+0.00 / -0.04	22.00	+0.08 / -0.00	6.00	+0.30 / -0.00	5.56
R016023055RA-E*	16.00	+0.00 / -0.04	16.00	23.00	5.50	16.00	+0.00 / -0.04	23.00	+0.08 / -0.00	6.50	+0.30 / -0.00	5.56
R016024050RA-E*	16.00	+0.00 / -0.04	16.00	24.00	5.00	16.00	+0.00 / -0.04	24.00	+0.08 / -0.00	6.00	+0.30 / -0.00	5.72
R016024065RA-E*	16.00	+0.00 / -0.04	16.00	24.00	6.50	16.00	+0.00 / -0.04	24.00	+0.08 / -0.00	7.50	+0.30 / -0.00	5.56
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	5.56
R016026070RA-E*	16.00	+0.00 / -0.04	16.00	26.00	7.00	16.00	+0.00 / -0.04	26.00	+0.08 / -0.00	8.00	+0.30 / -0.00	5.56
R018024050RA-E*	18.00	+0.00 / -0.04	18.00	24.00	5.00	18.00	+0.00 / -0.04	24.00	+0.08 / -0.00	6.00	+0.30 / -0.00	4.10
R018025050RA-E*	18.00	+0.00 / -0.04	18.00	25.00	5.00	18.00	+0.00 / -0.04	25.00	+0.08 / -0.00	6.00	+0.30 / -0.00	5.56
R018026045RA-E*	18.00	+0.00 / -0.04	18.00	26.00	4.50	18.00	+0.00 / -0.04	26.00	+0.08 / -0.00	5.50	+0.30 / -0.00	5.72
R018028070RA-E*	18.00	+0.00 / -0.04	18.00	28.00	7.00	18.00	+0.00 / -0.04	28.00	+0.08 / -0.00	8.00	+0.30 / -0.00	5.88
R020028057RA-E	20.00	+0.00 / -0.04	20.00	28.00	5.70	20.00	+0.00 / -0.04	28.00	+0.08 / -0.00	6.30	+0.30 / -0.00	5.88
R020028070RA-E*	20.00	+0.00 / -0.04	20.00	28.00	7.00	20.00	+0.00 / -0.04	28.00	+0.08 / -0.00	8.00	+0.30 / -0.00	5.88
R020030060RA-E	20.00	+0.00 / -0.04	20.00	30.00	6.00	20.00	+0.00 / -0.04	30.00	+0.08 / -0.00	7.00	+0.30 / -0.00	6.35
R020030072RA-E	20.00	+0.00 / -0.04	20.00	30.00	7.20	20.00	+0.00 / -0.04	30.00	+0.08 / -0.00	8.00	+0.30 / -0.00	5.88
R020030080RA-E*	20.00	+0.00 / -0.04	20.00	30.00	8.00	20.00	+0.00 / -0.04	30.00	+0.08 / -0.00	9.00	+0.30 / -0.00	6.67
R020030100RA-E*	20.00	+0.00 / -0.04	20.00	30.00	10.00	20.00	+0.00 / -0.04	30.00	+0.08 / -0.00	11.00	+0.30 / -0.00	6.99
R020032060RA-E*	20.00	+0.00 / -0.04	20.00	32.00	6.00	20.00	+0.00 / -0.04	32.00	+0.08 / -0.00	7.00	+0.30 / -0.00	6.51
R020032075RA-E*	20.00	+0.00 / -0.04	20.00	32.00	7.50	20.00	+0.00 / -0.04	32.00	+0.08 / -0.00	8.50	+0.30 / -0.00	6.35
R022030050RA-E	22.00	+0.00 / -0.04	22.00	30.00	5.00	22.00	+0.00 / -0.04	30.00	+0.08 / -0.00	5.70	+0.30 / -0.00	5.11
R022030070RA-E*	22.00	+0.00 / -0.04	22.00	30.00	7.00	22.00	+0.00 / -0.04	30.00	+0.08 / -0.00	8.00	+0.30 / -0.00	6.35
R022030080RA-E*	22.00	+0.00 / -0.04	22.00	30.00	8.00	22.00	+0.00 / -0.04	30.00	+0.08 / -0.00	9.00	+0.30 / -0.00	6.35
R025032057RA-E	25.00	+0.00 / -0.04	25.00	32.00	5.70	25.00	+0.00 / -0.04	32.00	+0.10 / -0.00	6.30	+0.30 / -0.00	6.35
R025033100RA-E	25.00	+0.00 / -0.04	25.00	33.00	10.00	25.00	+0.00 / -0.04	33.00	+0.10 / -0.00	11.00	+0.30 / -0.00	5.11
R025035060RA-E	25.00	+0.00 / -0.04	25.00	35.00	6.00	25.00	+0.00 / -0.04	35.00	+0.10 / -0.00	7.00	+0.30 / -0.00	6.99
R025035080RA-E*	25.00	+0.00 / -0.04	25.00	35.00	8.00	25.00	+0.00 / -0.04	35.00	+0.10 / -0.00	9.00	+0.30 / -0.00	6.99
R025035100RA-E*	25.00	+0.00 / -0.04	25.00	35.00	10.00	25.00	+0.00 / -0.04	35.00	+0.10 / -0.00	11.00	+0.30 / -0.00	5.50
R025037060RA-E*	25.00	+0.00 / -0.04	25.00	37.00	6.00	25.00	+0.00 / -0.04	37.00	+0.10 / -0.00	7.00	+0.30 / -0.00	6.99
R025040100RA-E*	25.00	+0.00 / -0.04	25.00	40.00	10.00	25.00	+0.00 / -0.04	40.00	+0.10 / -0.00	11.00	+0.30 / -0.00	6.02
R028035070RA-E*	28.00	+0.00 / -0.04	28.00	35.00	7.00	28.00	+0.00 / -0.04	35.00	+0.10 / -0.00	8.00	+0.30 / -0.00	6.99
R028036057RA-E*	28.00	+0.00 / -0.04	28.00	36.00	5.70	28.00	+0.00 / -0.04	36.00	+0.10 / -0.00	6.70	+0.30 / -0.00	6.99
R028036080RA-E*	28.00	+0.00 / -0.04	28.00	36.00	8.00	28.00	+0.00 / -0.04	36.00	+0.10 / -0.00	9.00	+0.30 / -0.00	6.99
R028038060RA-E*	28.00	+0.00 / -0.04	28.00	38.00	6.00	28.00	+0.00 / -0.04	38.00	+0.10 / -0.00	7.00	+0.30 / -0.00	6.99
R028038070RA-E*	28.00	+0.00 / -0.04	28.00	38.00	7.00	28.00	+0.00 / -0.04	38.00	+0.10 / -0.00	8.00	+0.30 / -0.00	6.99
R028038080RA-E*	28.00	+0.00 / -0.04	28.00	38.00	8.00	28.00	+0.00 / -0.04	38.00	+0.10 / -0.00	9.00	+0.30 / -0.00	6.99
R028038100RA-E*	28.00	+0.00 / -0.04	28.00	38.00	10.00	28.00	+0.00 / -0.04	38.00	+0.10 / -0.00	11.00	+0.30 / -0.00	6.99
R030038057RA-E*	30.00	+0.00 / -0.04	30.00	38.00	5.70	30.00	+0.00 / -0.04	38.00	+0.10 / -0.00	6.70	+0.30 / -0.00	5.62
R030038060RA-E*	30.00	+0.00 / -0.04	30.00	38.00	6.00	30.00	+0.00 / -0.04	38.00	+0.10 / -0.00	7.00	+0.30 / -0.00	6.99
R030038080RA-E	30.00	+0.00 / -0.04	30.00	38.00	8.00	30.00	+0.00 / -0.04	38.00	+0.10 / -0.00	9.00	+0.30 / -0.00	5.62

*** : 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.	
R030040057RA-E	30.00	+0.00 / -0.04	30.00	40.00	5.70	30.00	+0.00 / -0.04	40.00	+0.10 / -0.00	6.30	+0.30 / -0.00	7.49
R030040060RA-E	30.00	+0.00 / -0.04	30.00	40.00	6.00	30.00	+0.00 / -0.04	40.00	+0.10 / -0.00	7.00	+0.30 / -0.00	7.30
R030040070RA-E*	30.00	+0.00 / -0.04	30.00	40.00	7.00	30.00	+0.00 / -0.04	40.00	+0.10 / -0.00	8.00	+0.30 / -0.00	7.30
R030040080RA-E*	30.00	+0.00 / -0.04	30.00	40.00	8.00	30.00	+0.00 / -0.04	40.00	+0.10 / -0.00	9.00	+0.30 / -0.00	7.30
R030040100RA-E	30.00	+0.00 / -0.04	30.00	40.00	10.00	30.00	+0.00 / -0.04	40.00	+0.10 / -0.00	11.00	+0.30 / -0.00	7.29
R030042085RA-E*	30.00	+0.00 / -0.04	30.00	42.00	8.50	30.00	+0.00 / -0.04	42.00	+0.10 / -0.00	9.50	+0.30 / -0.00	7.24
R032042070RA-E*	32.00	+0.00 / -0.04	32.00	42.00	7.00	32.00	+0.00 / -0.04	42.00	+0.10 / -0.00	8.00	+0.30 / -0.00	6.15
R032042100RA-E*	32.00	+0.00 / -0.04	32.00	42.00	10.00	32.00	+0.00 / -0.04	42.00	+0.10 / -0.00	11.00	+0.30 / -0.00	6.44
R032048080RA-E*	32.00	+0.00 / -0.04	32.00	48.00	8.00	32.00	+0.00 / -0.04	48.00	+0.10 / -0.00	9.00	+0.30 / -0.00	7.75
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	8.17
R033043100RA-E	33.00	+0.00 / -0.04	33.00	43.00	10.00	33.00	+0.00 / -0.04	43.00	+0.10 / -0.00	11.00	+0.30 / -0.00	7.42
R035043057RA-E	35.00	+0.00 / -0.04	35.00	43.00	5.70	35.00	+0.00 / -0.04	43.00	+0.10 / -0.00	6.30	+0.30 / -0.00	6.99
R035043080RA-E*	35.00	+0.00 / -0.04	35.00	43.00	8.00	35.00	+0.00 / -0.04	43.00	+0.10 / -0.00	9.00	+0.30 / -0.00	6.99
R035045060RA-E*	35.00	+0.00 / -0.04	35.00	45.00	6.00	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	7.00	+0.30 / -0.00	7.24
R035045070RA-E	35.00	+0.00 / -0.04	35.00	45.00	7.00	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	8.00	+0.30 / -0.00	7.24
R035045080RA-E*	35.00	+0.00 / -0.04	35.00	45.00	8.00	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	9.00	+0.30 / -0.00	7.24
R035045100RA-E	35.00	+0.00 / -0.04	35.00	45.00	10.00	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	11.00	+0.30 / -0.00	7.37
R035050080RA-E*	35.00	+0.00 / -0.04	35.00	50.00	8.00	35.00	+0.00 / -0.04	50.00	+0.10 / -0.00	9.00	+0.30 / -0.00	7.62
R036046060RA-E*	36.00	+0.00 / -0.04	36.00	46.00	6.00	36.00	+0.00 / -0.04	46.00	+0.10 / -0.00	7.00	+0.30 / -0.00	7.62
R036046080RA-E*	36.00	+0.00 / -0.04	36.00	46.00	8.00	36.00	+0.00 / -0.04	46.00	+0.10 / -0.00	9.00	+0.30 / -0.00	7.24
R036046100RA-E*	36.00	+0.00 / -0.04	36.00	46.00	10.00	36.00	+0.00 / -0.04	46.00	+0.10 / -0.00	11.00	+0.30 / -0.00	7.24
R036051100RA-E*	36.00	+0.00 / -0.04	36.00	51.00	10.00	36.00	+0.00 / -0.04	51.00	+0.12 / -0.00	11.00	+0.30 / -0.00	7.62
R040048057RA-E	40.00	+0.00 / -0.05	40.00	48.00	5.70	40.00	+0.00 / -0.05	48.00	+0.10 / -0.00	6.30	+0.30 / -0.00	6.99
R040048080RA-E*	40.00	+0.00 / -0.05	40.00	48.00	8.00	40.00	+0.00 / -0.05	48.00	+0.10 / -0.00	9.00	+0.30 / -0.00	7.62
R040050072RA-E	40.00	+0.00 / -0.05	40.00	50.00	7.20	40.00	+0.00 / -0.05	50.00	+0.10 / -0.00	8.00	+0.30 / -0.00	7.62
R040050080RA-E	40.00	+0.00 / -0.05	40.00	50.00	8.00	40.00	+0.00 / -0.05	50.00	+0.10 / -0.00	9.00	+0.30 / -0.00	7.62
R040050100RA-E	40.00	+0.00 / -0.05	40.00	50.00	10.00	40.00	+0.00 / -0.05	50.00	+0.10 / -0.00	11.00	+0.30 / -0.00	7.62
R040055100RA-E	40.00	+0.00 / -0.05	40.00	55.00	10.00	40.00	+0.00 / -0.05	55.00	+0.12 / -0.00	11.00	+0.30 / -0.00	7.62
R040060120RA-E	40.00	+0.00 / -0.05	40.00	60.00	12.00	40.00	+0.00 / -0.05	60.00	+0.12 / -0.00	13.00	+0.30 / -0.00	8.38
R042052070RA-E*	42.00	+0.00 / -0.05	42.00	52.00	7.00	42.00	+0.00 / -0.05	52.00	+0.12 / -0.00	8.00	+0.30 / -0.00	7.88
R045055070RA-E	45.00	+0.00 / -0.05	45.00	55.00	7.00	45.00	+0.00 / -0.05	55.00	+0.12 / -0.00	8.00	+0.30 / -0.00	8.13
R045055100RA-E	45.00	+0.00 / -0.05	45.00	55.00	10.00	45.00	+0.00 / -0.05	55.00	+0.12 / -0.00	11.00	+0.30 / -0.00	8.13
R045060090RA-E*	45.00	+0.00 / -0.05	45.00	60.00	9.00	45.00	+0.00 / -0.05	60.00	+0.12 / -0.00	10.00	+0.30 / -0.00	8.26
R045061120RA-E*	45.00	+0.00 / -0.05	45.00	61.00	12.00	45.00	+0.00 / -0.05	61.00	+0.12 / -0.00	13.00	+0.30 / -0.00	8.38
R045065100RA-E*	45.00	+0.00 / -0.05	45.00	65.00	10.00	45.00	+0.00 / -0.05	65.00	+0.12 / -0.00	11.00	+0.30 / -0.00	8.38
R050060060RA-E	50.00	+0.00 / -0.05	50.00	60.00	6.00	50.00	+0.00 / -0.05	60.00	+0.12 / -0.00	7.00	+0.30 / -0.00	8.38
R050060080RA-E	50.00	+0.00 / -0.05	50.00	60.00	8.00	50.00	+0.00 / -0.05	60.00	+0.12 / -0.00	9.00	+0.30 / -0.00	8.51
R050060100RA-E*	50.00	+0.00 / -0.05	50.00	60.00	10.00	50.00	+0.00 / -0.05	60.00	+0.12 / -0.00	11.00	+0.30 / -0.00	8.38
R050062080RA-E*	50.00	+0.00 / -0.05	50.00	62.00	8.00	50.00	+0.00 / -0.05	62.00	+0.12 / -0.00	9.00	+0.30 / -0.00	8.38
R050063080RA-E	50.00	+0.00 / -0.05	50.00	63.00	8.00	50.00	+0.00 / -0.05	63.00	+0.12 / -0.00	9.00	+0.30 / -0.00	9.82
R050065100RA-E*	50.00	+0.00 / -0.05	50.00	65.00	10.00	50.00	+0.00 / -0.05	65.00	+0.12 / -0.00	11.00	+0.30 / -0.00	8.51
R055065073RA-E*	55.00	+0.00 / -0.05	55.00	65.00	7.30	55.00	+0.00 / -0.05	65.00	+0.12 / -0.00	8.30	+0.30 / -0.00	8.38
R055065100RA-E*	55.00	+0.00 / -0.05	55.00	65.00	10.00	55.00	+0.00 / -0.05	65.00	+0.12 / -0.00	11.00	+0.30 / -0.00	8.51
R055071120RA-E*	55.00	+0.00 / -0.05	55.00	71.00	12.00	55.00	+0.00 / -0.05	71.00	+0.12 / -0.00	13.00	+0.30 / -0.00	8.77
R056066100RA-E*	56.00	+0.00 / -0.05	56.00	66.00	10.00	56.00	+0.00 / -0.05	66.00	+0.12 / -0.00	11.00	+0.30 / -0.00	9.27
R056068085RA-E*	56.00	+0.00 / -0.05	56.00	68.00	8.50	56.00	+0.00 / -0.05	68.00	+0.12 / -0.00	9.50	+0.30 / -0.00	8.51
R060070085RA-E*	60.00	+0.00 / -0.05	60.00	70.00	8.50	60.00	+0.00 / -0.05	70.00	+0.12 / -0.00	9.50	+0.30 / -0.00	8.77
R060070100RA-E*	60.00	+0.00 / -0.05	60.00	70.00	10.00	60.00	+0.00 / -0.05	70.00	+0.12 / -0.00	11.00	+0.30 / -0.00	9.02

*** : 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.	
R060070120RA-E*	60.00	+0.00 / -0.05	60.00	70.00	12.00	60.00	+0.00 / -0.05	70.00	+0.12 / -0.00	13.00	+0.30 / -0.00	9.27
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	9.02
R060074080RA-E*	60.00	+0.00 / -0.05	60.00	74.00	8.00	60.00	+0.00 / -0.05	74.00	+0.12 / -0.00	9.00	+0.30 / -0.00	9.02
R060075120RA-E*	60.00	+0.00 / -0.05	60.00	75.00	12.00	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	13.00	+0.30 / -0.00	9.65
R063073065RA-E*	63.00	+0.00 / -0.05	63.00	73.00	6.50	63.00	+0.00 / -0.05	73.00	+0.12 / -0.00	7.50	+0.30 / -0.00	9.27
R063073120RA-E*	63.00	+0.00 / -0.05	63.00	73.00	12.00	63.00	+0.00 / -0.05	73.00	+0.12 / -0.00	13.00	+0.30 / -0.00	9.78
R063075085RA-E*	63.00	+0.00 / -0.05	63.00	75.00	8.50	63.00	+0.00 / -0.05	75.00	+0.12 / -0.00	9.50	+0.30 / -0.00	9.53
R063078100RA-E*	63.00	+0.00 / -0.05	63.00	78.00	10.00	63.00	+0.00 / -0.05	78.00	+0.12 / -0.00	11.00	+0.30 / -0.00	10.36
R065075100RA-E*	65.00	+0.00 / -0.06	65.00	75.00	10.00	65.00	+0.00 / -0.06	75.00	+0.12 / -0.00	11.00	+0.30 / -0.00	9.27
R065078100RA-E	65.00	+0.00 / -0.06	65.00	78.00	10.00	65.00	+0.00 / -0.06	78.00	+0.12 / -0.00	11.00	+0.30 / -0.00	9.69
R065080100RA-E	65.00	+0.00 / -0.06	65.00	80.00	10.00	65.00	+0.00 / -0.06	80.00	+0.12 / -0.00	11.00	+0.30 / -0.00	11.41
R070080120RA-E*	70.00	+0.00 / -0.06	70.00	80.00	12.00	70.00	+0.00 / -0.06	80.00	+0.12 / -0.00	13.00	+0.30 / -0.00	9.91
R070085100RA-E*	70.00	+0.00 / -0.06	70.00	85.00	10.00	70.00	+0.00 / -0.06	85.00	+0.12 / -0.00	11.00	+0.30 / -0.00	10.16
R070085115RA-E*	70.00	+0.00 / -0.06	70.00	85.00	11.50	70.00	+0.00 / -0.06	85.00	+0.12 / -0.00	12.50	+0.30 / -0.00	10.42
R070090135RA-E*	70.00	+0.00 / -0.06	70.00	90.00	13.50	70.00	+0.00 / -0.06	90.00	+0.12 / -0.00	14.50	+0.30 / -0.00	9.40
R075085072RA-E	75.00	+0.00 / -0.06	75.00	85.00	7.20	75.00	+0.00 / -0.06	85.00	+0.14 / -0.00	8.00	+0.30 / -0.00	8.48
R075085120RA-E*	75.00	+0.00 / -0.06	75.00	85.00	12.00	75.00	+0.00 / -0.06	85.00	+0.14 / -0.00	13.00	+0.30 / -0.00	8.82
R075095120RA-E*	75.00	+0.00 / -0.06	75.00	95.00	12.00	75.00	+0.00 / -0.06	95.00	+0.14 / -0.00	13.00	+0.30 / -0.00	10.29
R080090120RA-E*	80.00	+0.00 / -0.09	80.00	90.00	12.00	80.00	+0.00 / -0.09	90.00	+0.14 / -0.00	13.00	+0.30 / -0.00	10.67
R080093100RA-E	80.00	+0.00 / -0.09	80.00	93.00	10.00	80.00	+0.00 / -0.09	93.00	+0.14 / -0.00	11.00	+0.30 / -0.00	11.21
R080095100RA-E*	80.00	+0.00 / -0.09	80.00	95.00	10.00	80.00	+0.00 / -0.09	95.00	+0.14 / -0.00	11.00	+0.30 / -0.00	11.05
R080100135RA-E*	80.00	+0.00 / -0.09	80.00	100.00	13.50	80.00	+0.00 / -0.09	100.00	+0.14 / -0.00	14.50	+0.30 / -0.00	12.70
R085095070RA-E	85.00	+0.00 / -0.09	85.00	95.00	7.00	85.00	+0.00 / -0.09	95.00	+0.14 / -0.00	8.00	+0.30 / -0.00	10.92
R085095120RA-E*	85.00	+0.00 / -0.09	85.00	95.00	12.00	85.00	+0.00 / -0.09	95.00	+0.14 / -0.00	13.00	+0.30 / -0.00	11.05
R085100100RA-E*	85.00	+0.00 / -0.09	85.00	100.00	10.00	85.00	+0.00 / -0.09	100.00	+0.14 / -0.00	10.00	+0.30 / -0.00	13.34
R085105120RA-E	85.00	+0.00 / -0.09	85.00	105.00	12.00	85.00	+0.00 / -0.09	105.00	+0.14 / -0.00	13.00	+0.30 / -0.00	11.05
R090100120RA-E*	90.00	+0.00 / -0.09	90.00	100.00	12.00	90.00	+0.00 / -0.09	100.00	+0.14 / -0.00	13.00	+0.30 / -0.00	11.05
R090102090RA-E*	90.00	+0.00 / -0.09	90.00	102.00	9.00	90.00	+0.00 / -0.09	102.00	+0.14 / -0.00	10.00	+0.30 / -0.00	10.04
R090105114RA-E*	90.00	+0.00 / -0.09	90.00	105.00	11.40	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	12.40	+0.30 / -0.00	9.50
R090110115RA-E*	90.00	+0.00 / -0.09	90.00	110.00	11.50	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	12.50	+0.30 / -0.00	10.04
R095105120RA-E*	95.00	+0.00 / -0.09	95.00	105.00	12.00	95.00	+0.00 / -0.09	105.00	+0.14 / -0.00	13.00	+0.30 / -0.00	11.05
R095110120RA-E*	95.00	+0.00 / -0.09	95.00	110.00	12.00	95.00	+0.00 / -0.09	110.00	+0.14 / -0.00	13.00	+0.30 / -0.00	12.20
R100110140RA-E*	100.00	+0.00 / -0.09	100.00	110.00	14.00	100.00	+0.00 / -0.09	110.00	+0.14 / -0.00	15.00	+0.30 / -0.00	13.97
R100115090RA-E*	100.00	+0.00 / -0.09	100.00	115.00	9.00	100.00	+0.00 / -0.09	115.00	+0.14 / -0.00	10.00	+0.30 / -0.00	13.97
R100115120RA-E*	100.00	+0.00 / -0.09	100.00	115.00	12.00	100.00	+0.00 / -0.09	115.00	+0.14 / -0.00	13.00	+0.30 / -0.00	12.01
R100120135RA-E*	100.00	+0.00 / -0.09	100.00	120.00	13.50	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	14.50	+0.30 / -0.00	15.88
R100120145RA-E*	100.00	+0.00 / -0.09	100.00	120.00	14.50	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	15.50	+0.30 / -0.00	12.16
R105120120RA-E*	105.00	+0.00 / -0.09	105.00	120.00	12.00	105.00	+0.00 / -0.09	120.00	+0.14 / -0.00	13.00	+0.30 / -0.00	15.24
R105125120RA-E*	105.00	+0.00 / -0.09	105.00	125.00	12.00	105.00	+0.00 / -0.09	125.00	+0.14 / -0.00	13.00	+0.30 / -0.00	16.13
R110130115RA-E*	110.00	+0.00 / -0.09	110.00	130.00	11.50	110.00	+0.00 / -0.09	130.00	+0.14 / -0.00	12.50	+0.30 / -0.00	15.75
R115125120RA-E*	115.00	+0.00 / -0.09	115.00	125.00	12.00	115.00	+0.00 / -0.09	125.00	+0.14 / -0.00	13.00	+0.30 / -0.00	14.61
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	16.13
R120135145RA-E*	120.00	+0.00 / -0.09	120.00	135.00	14.50	120.00	+0.00 / -0.09	135.00	+0.14 / -0.00	15.50	+0.30 / -0.00	18.67
R120140115RA-E*	120.00	+0.00 / -0.09	120.00	140.00	11.50	120.00	+0.00 / -0.09	140.00	+0.14 / -0.00	12.50	+0.30 / -0.00	17.78
R120140146RA-E*	120.00	+0.00 / -0.09	120.00	140.00	14.60	120.00	+0.00 / -0.09	140.00	+0.14 / -0.00	15.60	+0.30 / -0.00	18.67
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	+0.30 / -0.00	18.42
R125140090RA-E	125.00	+0.00 / -0.13	125.00	140.00	9.00	125.00	+0.00 / -0.13	140.00	+0.16 / -0.00	10.00	+0.30 / -0.00	31.23
R125145120RA-E*	125.00	+0.00 / -0.13	125.00	145.00	12.00	125.00	+0.00 / -0.13	145.00	+0.16 / -0.00	13.00	+0.30 / -0.00	16.12

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

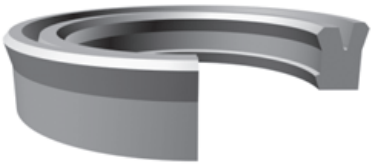
RA-E SERIES - AU 94A

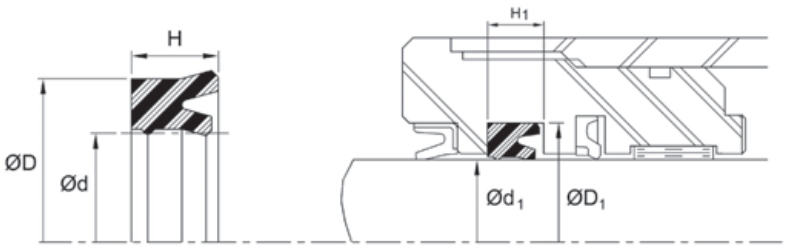
Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R128140100RA-E*	128.00	+0.00 / -0.13	128.00	140.00	10.00	128.00	+0.00 / -0.13	140.00	+0.16 / -0.00	11.00	+0.30 / -0.00	19.01
R130140135RA-E*	130.00	+0.00 / -0.13	130.00	140.00	13.50	130.00	+0.00 / -0.13	140.00	+0.16 / -0.00	14.50	+0.30 / -0.00	14.45
R130150150RA-E*	130.00	+0.00 / -0.13	130.00	150.00	15.00	130.00	+0.00 / -0.13	150.00	+0.16 / -0.00	16.00	+0.30 / -0.00	19.01
R132142060RA-E*	132.00	+0.00 / -0.13	132.00	142.00	6.00	132.00	+0.00 / -0.13	142.00	+0.16 / -0.00	7.00	+0.30 / -0.00	12.67
R135145120RA-E*	135.00	+0.00 / -0.13	135.00	145.00	12.00	135.00	+0.00 / -0.13	145.00	+0.16 / -0.00	13.00	+0.30 / -0.00	14.56
R150160135RA-E*	150.00	+0.00 / -0.13	150.00	160.00	13.50	150.00	+0.00 / -0.13	160.00	+0.16 / -0.00	14.50	+0.30 / -0.00	19.01
R150165090RA-E*	150.00	+0.00 / -0.13	150.00	165.00	9.00	150.00	+0.00 / -0.13	165.00	+0.16 / -0.00	10.00	+0.30 / -0.00	19.67
R150170135RA-E*	150.00	+0.00 / -0.13	150.00	170.00	13.50	150.00	+0.00 / -0.13	170.00	+0.16 / -0.00	14.50	+0.30 / -0.00	22.23
R150170150RA-E*	150.00	+0.00 / -0.13	150.00	170.00	15.00	150.00	+0.00 / -0.13	170.00	+0.16 / -0.00	16.00	+0.30 / -0.00	22.23
R155165120RA-E*	155.00	+0.00 / -0.13	155.00	165.00	12.00	155.00	+0.00 / -0.13	165.00	+0.16 / -0.00	13.00	+0.30 / -0.00	19.23
R160170120RA-E*	160.00	+0.00 / -0.13	160.00	170.00	12.00	160.00	+0.00 / -0.13	170.00	+0.16 / -0.00	13.00	+0.30 / -0.00	20.79
R160180120RA-E*	160.00	+0.00 / -0.13	160.00	180.00	12.00	160.00	+0.00 / -0.13	180.00	+0.16 / -0.00	13.00	+0.30 / -0.00	27.34
R160180150RA-E*	160.00	+0.00 / -0.13	160.00	180.00	15.00	160.00	+0.00 / -0.13	180.00	+0.16 / -0.00	16.00	+0.30 / -0.00	27.34
R165180110RA-E*	165.00	+0.00 / -0.13	165.00	180.00	11.00	165.00	+0.00 / -0.13	180.00	+0.16 / -0.00	12.00	+0.30 / -0.00	21.23
R170180145RA-E*	170.00	+0.00 / -0.13	170.00	180.00	14.50	170.00	+0.00 / -0.13	180.00	+0.16 / -0.00	15.50	+0.30 / -0.00	22.23
R170190150RA-E*	170.00	+0.00 / -0.13	170.00	190.00	15.00	170.00	+0.00 / -0.13	190.00	+0.16 / -0.00	16.00	+0.30 / -0.00	19.16
R180190110RA-E*	180.00	+0.00 / -0.13	180.00	190.00	11.00	180.00	+0.00 / -0.13	190.00	+0.18 / -0.00	12.00	+0.30 / -0.00	30.57
R180192100RA-E*	180.00	+0.00 / -0.13	180.00	192.00	10.00	180.00	+0.00 / -0.13	192.00	+0.18 / -0.00	11.00	+0.30 / -0.00	38.31
R180195125RA-E*	180.00	+0.00 / -0.13	180.00	195.00	12.50	180.00	+0.00 / -0.13	195.00	+0.18 / -0.00	13.50	+0.30 / -0.00	35.12
R180200120RA-E*	180.00	+0.00 / -0.13	180.00	200.00	12.00	180.00	+0.00 / -0.13	200.00	+0.18 / -0.00	13.00	+0.30 / -0.00	30.57
R180200150RA-E	180.00	+0.00 / -0.13	180.00	200.00	15.00	180.00	+0.00 / -0.13	200.00	+0.18 / -0.00	16.00	+0.30 / -0.00	30.57
R185195120RA-E*	185.00	+0.00 / -0.13	185.00	195.00	12.00	185.00	+0.00 / -0.13	195.00	+0.18 / -0.00	13.00	+0.30 / -0.00	34.90
R200220150RA-E*	200.00	+0.00 / -0.13	200.00	220.00	15.00	200.00	+0.00 / -0.13	220.00	+0.18 / -0.00	16.00	+0.30 / -0.00	50.02
R200225150RA-E*	200.00	+0.00 / -0.13	200.00	225.00	15.00	200.00	+0.00 / -0.13	225.00	+0.18 / -0.00	16.00	+0.30 / -0.00	52.24
R210230120RA-E*	210.00	+0.00 / -0.13	210.00	230.00	12.00	210.00	+0.00 / -0.13	230.00	+0.18 / -0.00	13.00	+0.30 / -0.00	105.98
R210230160RA-E*	210.00	+0.00 / -0.13	210.00	230.00	16.00	210.00	+0.00 / -0.13	230.00	+0.18 / -0.00	17.00	+0.30 / -0.00	108.00
R210240280RA-E*	210.00	+0.00 / -0.13	210.00	240.00	28.00	210.00	+0.00 / -0.13	240.00	+0.18 / -0.00	29.00	+0.30 / -0.00	97.04
R212224100RA-E*	212.00	+0.00 / -0.13	212.00	224.00	10.00	212.00	+0.00 / -0.13	224.00	+0.18 / -0.00	11.00	+0.30 / -0.00	40.13
R215225120RA-E*	215.00	+0.00 / -0.13	215.00	225.00	12.00	215.00	+0.00 / -0.13	225.00	+0.18 / -0.00	13.00	+0.30 / -0.00	40.13
R220240150RA-E*	220.00	+0.00 / -0.13	220.00	240.00	15.00	220.00	+0.00 / -0.13	240.00	+0.18 / -0.00	16.00	+0.30 / -0.00	53.02
R220245190RA-E*	220.00	+0.00 / -0.13	220.00	245.00	19.00	220.00	+0.00 / -0.13	245.00	+0.18 / -0.00	20.00	+0.30 / -0.00	59.36
R220250227RA-E*	220.00	+0.00 / -0.13	220.00	250.00	22.70	220.00	+0.00 / -0.13	250.00	+0.18 / -0.00	23.70	+0.30 / -0.00	67.03
R240250120RA-E*	240.00	+0.00 / -0.13	240.00	250.00	12.00	240.00	+0.00 / -0.13	250.00	+0.18 / -0.00	13.00	+0.30 / -0.00	59.91
R240260150RA-E*	240.00	+0.00 / -0.13	240.00	260.00	15.00	240.00	+0.00 / -0.13	260.00	+0.18 / -0.00	16.00	+0.30 / -0.00	77.59
R240270180RA-E*	240.00	+0.00 / -0.13	240.00	270.00	18.00	240.00	+0.00 / -0.13	270.00	+0.18 / -0.00	19.00	+0.30 / -0.00	72.69
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	83.92
R280300150RA-E*	280.00	+0.00 / -0.13	280.00	300.00	15.00	280.00	+0.00 / -0.13	300.00	+0.21 / -0.00	16.00	+0.30 / -0.00	90.26
R280310190RA-E	280.00	+0.00 / -0.13	280.00	310.00	19.00	280.00	+0.00 / -0.13	310.00	+0.21 / -0.00	20.00	+0.30 / -0.00	163.58
R300360228RA-E*	300.00	+0.00 / -0.13	300.00	360.00	22.80	300.00	+0.00 / -0.13	360.00	+0.21 / -0.00	23.80	+0.30 / -0.00	121.16

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

RC - Rod Seals

Polyurethane AU 93A





Temperature: -31/212F [-35/100C] **Pressure: 5800 PSI [400 Bar]**

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	10.13
R008018070RC*	8.00	+0.00 / -0.04	8.00	18.00	7.00	8.00	+0.00 / -0.04	18.00	+0.11 / -0.00	8.00	+0.25 / -0.00	9.17
R010015036RC	10.00	+0.00 / -0.04	10.00	15.00	3.60	10.00	+0.00 / -0.04	15.00	+0.11 / -0.00	4.00	+0.25 / -0.00	8.64
R010016045RC*	10.00	+0.00 / -0.04	10.00	16.00	4.50	10.00	+0.00 / -0.04	16.00	+0.11 / -0.00	5.30	+0.25 / -0.00	10.97
R010018057RC*	10.00	+0.00 / -0.04	10.00	18.00	5.70	10.00	+0.00 / -0.04	18.00	+0.11 / -0.00	6.30	+0.25 / -0.00	7.92
R012018040RC*	12.00	+0.00 / -0.04	12.00	18.00	4.00	12.00	+0.00 / -0.04	18.00	+0.13 / -0.00	4.50	+0.25 / -0.00	9.25
R012018057RC*	12.00	+0.00 / -0.04	12.00	18.00	5.70	12.00	+0.00 / -0.04	18.00	+0.13 / -0.00	6.30	+0.25 / -0.00	7.87
R012019045RC*	12.00	+0.00 / -0.04	12.00	19.00	4.50	12.00	+0.00 / -0.04	19.00	+0.13 / -0.00	5.00	+0.25 / -0.00	8.64
R012019050RC*	12.00	+0.00 / -0.04	12.00	19.00	5.00	12.00	+0.00 / -0.04	19.00	+0.13 / -0.00	5.60	+0.25 / -0.00	6.10
R012020057RC	12.00	+0.00 / -0.04	12.00	20.00	5.70	12.00	+0.00 / -0.04	20.00	+0.13 / -0.00	6.30	+0.25 / -0.00	7.95
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	9.02
R012018055RC*	12.70	+0.00 / -0.04	12.70	18.00	5.50	12.70	+0.00 / -0.04	18.00	+0.13 / -0.00	6.00	+0.25 / -0.00	9.02
R013020045RC	13.00	+0.00 / -0.04	13.00	20.00	4.50	13.00	+0.00 / -0.04	20.00	+0.13 / -0.00	5.00	+0.25 / -0.00	8.64
R014022057RC	14.00	+0.00 / -0.04	14.00	22.00	5.70	14.00	+0.00 / -0.04	22.00	+0.13 / -0.00	6.30	+0.25 / -0.00	9.02
R014024073RC*	14.00	+0.00 / -0.04	14.00	24.00	7.30	14.00	+0.00 / -0.04	24.00	+0.13 / -0.00	8.00	+0.25 / -0.00	9.02
R016022045RC	16.00	+0.00 / -0.04	16.00	22.00	4.50	16.00	+0.00 / -0.04	22.00	+0.13 / -0.00	5.00	+0.25 / -0.00	8.64
R016022050RC	16.00	+0.00 / -0.04	16.00	22.00	5.00	16.00	+0.00 / -0.04	22.00	+0.13 / -0.00	6.00	+0.25 / -0.00	9.82
R016024057RC	16.00	+0.00 / -0.04	16.00	24.00	5.70	16.00	+0.00 / -0.04	24.00	+0.13 / -0.00	6.30	+0.25 / -0.00	9.68
R016024063RC*	16.00	+0.00 / -0.04	16.00	24.00	6.30	16.00	+0.00 / -0.04	24.00	+0.13 / -0.00	7.00	+0.25 / -0.00	10.28
R016026073RC*	16.00	+0.00 / -0.04	16.00	26.00	7.30	16.00	+0.00 / -0.04	26.00	+0.13 / -0.00	8.00	+0.25 / -0.00	12.57
R016026077RC	16.00	+0.00 / -0.04	16.00	26.00	7.70	16.00	+0.00 / -0.04	26.00	+0.13 / -0.00	9.00	+0.25 / -0.00	8.53
R018024049RC	18.00	+0.00 / -0.04	18.00	24.00	4.90	18.00	+0.00 / -0.04	24.00	+0.13 / -0.00	5.90	+0.25 / -0.00	8.62
R018025050RC	18.00	+0.00 / -0.04	18.00	25.00	5.00	18.00	+0.00 / -0.04	25.00	+0.13 / -0.00	6.00	+0.25 / -0.00	8.95
R018026050RC	18.00	+0.00 / -0.04	18.00	26.00	5.00	18.00	+0.00 / -0.04	26.00	+0.13 / -0.00	5.70	+0.25 / -0.00	9.02
R018026057RC	18.00	+0.00 / -0.04	18.00	26.00	5.70	18.00	+0.00 / -0.04	26.00	+0.13 / -0.00	6.30	+0.25 / -0.00	9.02
R018026060RC	18.00	+0.00 / -0.04	18.00	26.00	6.00	18.00	+0.00 / -0.04	26.00	+0.13 / -0.00	7.00	+0.25 / -0.00	9.95
R018028077RC*	18.00	+0.00 / -0.04	18.00	28.00	7.70	18.00	+0.00 / -0.04	28.00	+0.13 / -0.00	9.00	+0.25 / -0.00	8.64
R020025032RC	20.00	+0.00 / -0.04	20.00	25.00	3.20	20.00	+0.00 / -0.04	25.00	+0.13 / -0.00	3.50	+0.25 / -0.00	9.13
R020026050RC	20.00	+0.00 / -0.04	20.00	26.00	5.00	20.00	+0.00 / -0.04	26.00	+0.13 / -0.00	5.50	+0.25 / -0.00	7.09
R020028050RC	20.00	+0.00 / -0.04	20.00	28.00	5.00	20.00	+0.00 / -0.04	28.00	+0.13 / -0.00	5.70	+0.25 / -0.00	9.43
R020028057RC	20.00	+0.00 / -0.04	20.00	28.00	5.70	20.00	+0.00 / -0.04	28.00	+0.13 / -0.00	6.30	+0.25 / -0.00	8.11
R020028080RC	20.00	+0.00 / -0.04	20.00	28.00	8.00	20.00	+0.00 / -0.04	28.00	+0.13 / -0.00	9.00	+0.25 / -0.00	8.90
R020030060RC	20.00	+0.00 / -0.04	20.00	30.00	6.00	20.00	+0.00 / -0.04	30.00	+0.13 / -0.00	7.00	+0.25 / -0.00	9.43
R020030077RC	20.00	+0.00 / -0.04	20.00	30.00	7.70	20.00	+0.00 / -0.04	30.00	+0.13 / -0.00	9.00	+0.25 / -0.00	8.50
R020030080RC	20.00	+0.00 / -0.04	20.00	30.00	8.00	20.00	+0.00 / -0.04	30.00	+0.13 / -0.00	9.00	+0.25 / -0.00	9.31
R020030100RC	20.00	+0.00 / -0.04	20.00	30.00	10.00	20.00	+0.00 / -0.04	30.00	+0.13 / -0.00	11.00	+0.25 / -0.00	9.82
R022030057RC	22.00	+0.00 / -0.04	22.00	30.00	5.70	22.00	+0.00 / -0.04	30.00	+0.16 / -0.00	6.30	+0.25 / -0.00	7.79
R022030073RC	22.00	+0.00 / -0.04	22.00	30.00	7.30	22.00	+0.00 / -0.04	30.00	+0.16 / -0.00	8.00	+0.25 / -0.00	9.43

*** : 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.	
R022032073RC	22.00	+0.00 / -0.04	22.00	32.00	7.30	22.00	+0.00 / -0.04	32.00	+0.16 / -0.00	8.00	+0.25 / -0.00	8.11
R022032100RC*	22.00	+0.00 / -0.04	22.00	32.00	10.00	22.00	+0.00 / -0.04	32.00	+0.16 / -0.00	11.00	+0.25 / -0.00	9.02
R022033038RC	22.00	+0.00 / -0.04	22.00	33.00	3.80	22.00	+0.00 / -0.04	33.00	+0.16 / -0.00	4.30	+0.25 / -0.00	6.10
R022030050RC	22.40	+0.00 / -0.04	22.40	30.00	5.00	22.40	+0.00 / -0.04	30.00	+0.16 / -0.00	5.70	+0.25 / -0.00	9.02
R022032080RC*	22.40	+0.00 / -0.04	22.40	32.40	8.00	22.40	+0.00 / -0.04	32.40	+0.16 / -0.00	9.00	+0.25 / -0.00	11.05
R025033050RC	25.00	+0.00 / -0.04	25.00	33.00	5.00	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	5.70	+0.25 / -0.00	9.02
R025033057RC	25.00	+0.00 / -0.04	25.00	33.00	5.70	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	6.30	+0.25 / -0.00	7.79
R025033063RC*	25.00	+0.00 / -0.04	25.00	33.00	6.30	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	7.00	+0.25 / -0.00	9.02
R025033065RC*	25.00	+0.00 / -0.04	25.00	33.00	6.50	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	7.30	+0.25 / -0.00	9.02
R025033068RC	25.00	+0.00 / -0.04	25.00	33.00	6.80	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	7.50	+0.25 / -0.00	9.43
R025033100RC	25.00	+0.00 / -0.04	25.00	33.00	10.00	25.00	+0.00 / -0.04	33.00	+0.16 / -0.00	11.00	+0.25 / -0.00	9.43
R025035073RC	25.00	+0.00 / -0.04	25.00	35.00	7.30	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	8.00	+0.25 / -0.00	9.78
R025035077RC	25.00	+0.00 / -0.04	25.00	35.00	7.70	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	9.00	+0.25 / -0.00	8.56
R025035080RC	25.00	+0.00 / -0.04	25.00	35.00	8.00	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	9.00	+0.25 / -0.00	12.01
R025035100RC	25.00	+0.00 / -0.04	25.00	35.00	10.00	25.00	+0.00 / -0.04	35.00	+0.16 / -0.00	11.00	+0.25 / -0.00	8.56
R025037100RC	25.00	+0.00 / -0.04	25.00	37.00	10.00	25.00	+0.00 / -0.04	37.00	+0.16 / -0.00	11.00	+0.25 / -0.00	11.38
R025040100RC	25.00	+0.00 / -0.04	25.00	40.00	10.00	25.00	+0.00 / -0.04	40.00	+0.16 / -0.00	11.00	+0.25 / -0.00	11.38
R026036070RC*	26.00	+0.00 / -0.04	26.00	36.00	7.00	26.00	+0.00 / -0.04	36.00	+0.16 / -0.00	8.00	+0.25 / -0.00	9.82
R028035050RC	28.00	+0.00 / -0.04	28.00	35.50	5.00	28.00	+0.00 / -0.04	35.50	+0.16 / -0.00	5.70	+0.25 / -0.00	8.10
R028036057RC*	28.00	+0.00 / -0.04	28.00	36.00	5.70	28.00	+0.00 / -0.04	36.00	+0.16 / -0.00	6.30	+0.25 / -0.00	6.46
R028036070RC	28.00	+0.00 / -0.04	28.00	36.00	7.00	28.00	+0.00 / -0.04	36.00	+0.16 / -0.00	8.00	+0.25 / -0.00	9.72
R028038073RC	28.00	+0.00 / -0.04	28.00	38.00	7.30	28.00	+0.00 / -0.04	38.00	+0.16 / -0.00	8.00	+0.25 / -0.00	8.56
R028043114RC*	28.00	+0.00 / -0.04	28.00	43.00	11.40	28.00	+0.00 / -0.04	43.00	+0.16 / -0.00	12.50	+0.25 / -0.00	8.56
R030038057RC*	30.00	+0.00 / -0.04	30.00	38.00	5.70	30.00	+0.00 / -0.04	38.00	+0.16 / -0.00	6.30	+0.25 / -0.00	11.42
R030038063RC	30.00	+0.00 / -0.04	30.00	38.00	6.30	30.00	+0.00 / -0.04	38.00	+0.16 / -0.00	7.00	+0.25 / -0.00	8.56
R030040060RC	30.00	+0.00 / -0.04	30.00	40.00	6.00	30.00	+0.00 / -0.04	40.00	+0.16 / -0.00	7.00	+0.25 / -0.00	8.85
R030040070RC	30.00	+0.00 / -0.04	30.00	40.00	7.00	30.00	+0.00 / -0.04	40.00	+0.16 / -0.00	7.70	+0.25 / -0.00	10.76
R030040073RC	30.00	+0.00 / -0.04	30.00	40.00	7.30	30.00	+0.00 / -0.04	40.00	+0.16 / -0.00	8.00	+0.25 / -0.00	8.94
R030040100RC	30.00	+0.00 / -0.04	30.00	40.00	10.00	30.00	+0.00 / -0.04	40.00	+0.16 / -0.00	11.00	+0.25 / -0.00	8.88
R030042109RC*	30.00	+0.00 / -0.04	30.00	42.00	10.90	30.00	+0.00 / -0.04	42.00	+0.16 / -0.00	12.00	+0.25 / -0.00	12.17
R030050100RC	30.00	+0.00 / -0.04	30.00	50.00	10.00	30.00	+0.00 / -0.04	50.00	+0.16 / -0.00	11.00	+0.25 / -0.00	12.58
R032040060RC	32.00	+0.00 / -0.04	32.00	40.00	6.00	32.00	+0.00 / -0.04	40.00	+0.16 / -0.00	7.00	+0.25 / -0.00	7.42
R032040067RC*	32.00	+0.00 / -0.04	32.00	40.00	6.70	32.00	+0.00 / -0.04	40.00	+0.16 / -0.00	7.70	+0.25 / -0.00	9.43
R032040077RC	32.00	+0.00 / -0.04	32.00	40.00	7.70	32.00	+0.00 / -0.04	40.00	+0.16 / -0.00	9.00	+0.25 / -0.00	8.58
R032040080RC	32.00	+0.00 / -0.04	32.00	40.00	8.00	32.00	+0.00 / -0.04	40.00	+0.16 / -0.00	9.00	+0.25 / -0.00	9.29
R032041079RC*	32.00	+0.00 / -0.04	32.00	41.50	7.90	32.00	+0.00 / -0.04	41.50	+0.16 / -0.00	8.90	+0.25 / -0.00	9.82
R032042057RC	32.00	+0.00 / -0.04	32.00	42.00	5.70	32.00	+0.00 / -0.04	42.00	+0.16 / -0.00	6.30	+0.25 / -0.00	8.11
R032042073RC	32.00	+0.00 / -0.04	32.00	42.00	7.30	32.00	+0.00 / -0.04	42.00	+0.16 / -0.00	8.00	+0.25 / -0.00	9.47
R032042100RC	32.00	+0.00 / -0.04	32.00	42.00	10.00	32.00	+0.00 / -0.04	42.00	+0.16 / -0.00	11.00	+0.25 / -0.00	9.47
R032045100RC*	32.00	+0.00 / -0.04	32.00	45.00	10.00	32.00	+0.00 / -0.04	45.00	+0.16 / -0.00	11.00	+0.25 / -0.00	12.32
R032047091RC*	32.00	+0.00 / -0.04	32.00	47.00	9.10	32.00	+0.00 / -0.04	47.00	+0.16 / -0.00	10.00	+0.25 / -0.00	9.81
R032047100RC	32.00	+0.00 / -0.04	32.00	47.00	10.00	32.00	+0.00 / -0.04	47.00	+0.16 / -0.00	11.00	+0.25 / -0.00	9.81
R032048100RC	32.00	+0.00 / -0.04	32.00	48.00	10.00	32.00	+0.00 / -0.04	48.00	+0.16 / -0.00	11.00	+0.25 / -0.00	11.47
R035043057RC*	35.00	+0.00 / -0.04	35.00	43.00	5.70	35.00	+0.00 / -0.04	43.00	+0.16 / -0.00	6.30	+0.25 / -0.00	10.88
R035043063RC	35.00	+0.00 / -0.04	35.00	43.00	6.30	35.00	+0.00 / -0.04	43.00	+0.16 / -0.00	7.00	+0.25 / -0.00	8.56
R035043082RC	35.00	+0.00 / -0.04	35.00	43.00	8.20	35.00	+0.00 / -0.04	43.00	+0.16 / -0.00	9.00	+0.25 / -0.00	8.56
R035045060RC	35.00	+0.00 / -0.04	35.00	45.00	6.00	35.00	+0.00 / -0.04	45.00	+0.16 / -0.00	7.00	+0.25 / -0.00	12.17
R035045073RC	35.00	+0.00 / -0.04	35.00	45.00	7.30	35.00	+0.00 / -0.04	45.00	+0.16 / -0.00	8.00	+0.25 / -0.00	10.34

*** : 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.	
R035045077RC	35.00	+0.00 / -0.04	35.00	45.00	7.70	35.00	+0.00 / -0.04	45.00	+0.16 / -0.00	9.00	+0.25 / -0.00	9.25
R035045100RC	35.00	+0.00 / -0.04	35.00	45.00	10.00	35.00	+0.00 / -0.04	45.00	+0.16 / -0.00	11.00	+0.25 / -0.00	8.56
R035050090RC	35.00	+0.00 / -0.04	35.00	50.00	9.00	35.00	+0.00 / -0.04	50.00	+0.16 / -0.00	10.00	+0.25 / -0.00	10.42
R035050100RC	35.00	+0.00 / -0.04	35.00	50.00	10.00	35.00	+0.00 / -0.04	50.00	+0.16 / -0.00	11.00	+0.25 / -0.00	10.14
R035045060RC-1*	35.50	+0.00 / -0.04	35.50	45.00	6.00	35.50	+0.00 / -0.04	45.00	+0.16 / -0.00	7.00	+0.25 / -0.00	12.17
R035050100RC-1*	35.50	+0.00 / -0.04	35.50	50.50	10.00	35.50	+0.00 / -0.04	50.50	+0.16 / -0.00	11.00	+0.25 / -0.00	12.17
R036044058RC	36.00	+0.00 / -0.04	36.00	44.00	5.80	36.00	+0.00 / -0.04	44.00	+0.16 / -0.00	6.30	+0.25 / -0.00	8.75
R036044064RC	36.00	+0.00 / -0.04	36.00	44.00	6.40	36.00	+0.00 / -0.04	44.00	+0.16 / -0.00	7.50	+0.25 / -0.00	8.11
R036044082RC	36.00	+0.00 / -0.04	36.00	44.00	8.20	36.00	+0.00 / -0.04	44.00	+0.16 / -0.00	9.00	+0.25 / -0.00	8.68
R036046057RC*	36.00	+0.00 / -0.04	36.00	46.00	5.70	36.00	+0.00 / -0.04	46.00	+0.16 / -0.00	6.30	+0.25 / -0.00	9.82
R036046073RC	36.00	+0.00 / -0.04	36.00	46.00	7.30	36.00	+0.00 / -0.04	46.00	+0.16 / -0.00	8.00	+0.25 / -0.00	8.48
R036046100RC	36.00	+0.00 / -0.04	36.00	46.00	10.00	36.00	+0.00 / -0.04	46.00	+0.16 / -0.00	11.00	+0.25 / -0.00	9.47
R037047080RC	37.00	+0.00 / -0.04	37.00	47.00	8.00	37.00	+0.00 / -0.04	47.00	+0.16 / -0.00	9.00	+0.25 / -0.00	9.54
R037047100RC	37.00	+0.00 / -0.04	37.00	47.00	10.00	37.00	+0.00 / -0.04	47.00	+0.16 / -0.00	11.00	+0.25 / -0.00	13.91
R038048100RC	38.00	+0.00 / -0.04	38.00	48.00	10.00	38.00	+0.00 / -0.04	48.00	+0.16 / -0.00	11.00	+0.25 / -0.00	11.58
R038050085RC*	38.00	+0.00 / -0.04	38.00	50.00	8.50	38.00	+0.00 / -0.04	50.00	+0.16 / -0.00	9.50	+0.25 / -0.00	10.00
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	12.67
R038053100RC	38.00	+0.00 / -0.04	38.00	53.00	10.00	38.00	+0.00 / -0.04	53.00	+0.16 / -0.00	11.00	+0.25 / -0.00	12.01
R040048057RC*	40.00	+0.00 / -0.05	40.00	48.00	5.70	40.00	+0.00 / -0.05	48.00	+0.16 / -0.00	6.30	+0.25 / -0.00	10.53
R040048082RC	40.00	+0.00 / -0.05	40.00	48.00	8.20	40.00	+0.00 / -0.05	48.00	+0.16 / -0.00	9.00	+0.25 / -0.00	9.47
R040049095RC	40.00	+0.00 / -0.05	40.00	49.50	9.50	40.00	+0.00 / -0.05	49.50	+0.16 / -0.00	10.50	+0.25 / -0.00	10.99
R040050060RC	40.00	+0.00 / -0.05	40.00	50.00	6.00	40.00	+0.00 / -0.05	50.00	+0.16 / -0.00	7.00	+0.25 / -0.00	10.99
R040050070RC	40.00	+0.00 / -0.05	40.00	50.00	7.00	40.00	+0.00 / -0.05	50.00	+0.16 / -0.00	8.00	+0.25 / -0.00	11.76
R040050073RC	40.00	+0.00 / -0.05	40.00	50.00	7.30	40.00	+0.00 / -0.05	50.00	+0.16 / -0.00	8.00	+0.25 / -0.00	10.99
R040050100RC	40.00	+0.00 / -0.05	40.00	50.00	10.00	40.00	+0.00 / -0.05	50.00	+0.16 / -0.00	11.00	+0.25 / -0.00	13.34
R040052109RC	40.00	+0.00 / -0.05	40.00	52.00	10.90	40.00	+0.00 / -0.05	52.00	+0.16 / -0.00	12.00	+0.25 / -0.00	13.32
R040055090RC	40.00	+0.00 / -0.05	40.00	55.00	9.00	40.00	+0.00 / -0.05	55.00	+0.16 / -0.00	10.00	+0.25 / -0.00	13.32
R040055100RC	40.00	+0.00 / -0.05	40.00	55.00	10.00	40.00	+0.00 / -0.05	55.00	+0.16 / -0.00	11.00	+0.25 / -0.00	11.53
R040060100RC*	40.00	+0.00 / -0.05	40.00	60.00	10.00	40.00	+0.00 / -0.05	60.00	+0.16 / -0.00	11.00	+0.25 / -0.00	12.55
R042050075RC	42.00	+0.00 / -0.05	42.00	50.00	7.50	42.00	+0.00 / -0.05	50.00	+0.19 / -0.00	8.00	+0.25 / -0.00	9.82
R042052100RC	42.00	+0.00 / -0.05	42.00	52.00	10.00	42.00	+0.00 / -0.05	52.00	+0.19 / -0.00	11.00	+0.25 / -0.00	10.99
R045053056RC	45.00	+0.00 / -0.05	45.00	53.00	5.60	45.00	+0.00 / -0.05	53.00	+0.19 / -0.00	6.30	+0.25 / -0.00	11.91
R045053081RC	45.00	+0.00 / -0.05	45.00	53.00	8.10	45.00	+0.00 / -0.05	53.00	+0.19 / -0.00	9.00	+0.25 / -0.00	9.47
R045053118RC*	45.00	+0.00 / -0.05	45.00	53.00	11.80	45.00	+0.00 / -0.05	53.00	+0.19 / -0.00	13.00	+0.25 / -0.00	10.99
R045055056RC	45.00	+0.00 / -0.05	45.00	55.00	5.60	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	6.30	+0.25 / -0.00	10.99
R045055060RC	45.00	+0.00 / -0.05	45.00	55.00	6.00	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	7.00	+0.25 / -0.00	10.99
R045055073RC	45.00	+0.00 / -0.05	45.00	55.00	7.30	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	8.00	+0.25 / -0.00	9.47
R045055080RC*	45.00	+0.00 / -0.05	45.00	55.00	8.00	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	9.00	+0.25 / -0.00	9.47
R045055100RC	45.00	+0.00 / -0.05	45.00	55.00	10.00	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	11.00	+0.25 / -0.00	13.22
R045055114RC*	45.00	+0.00 / -0.05	45.00	55.00	11.40	45.00	+0.00 / -0.05	55.00	+0.19 / -0.00	12.50	+0.25 / -0.00	12.55
R045057095RC	45.00	+0.00 / -0.05	45.00	57.70	9.50	45.00	+0.00 / -0.05	57.70	+0.19 / -0.00	10.50	+0.25 / -0.00	11.79
R045060100RC	45.00	+0.00 / -0.05	45.00	60.00	10.00	45.00	+0.00 / -0.05	60.00	+0.19 / -0.00	11.00	+0.25 / -0.00	10.49
R045060115RC*	45.00	+0.00 / -0.05	45.00	60.00	11.50	45.00	+0.00 / -0.05	60.00	+0.19 / -0.00	12.50	+0.25 / -0.00	10.49
R045065100RC	45.00	+0.00 / -0.05	45.00	65.00	10.00	45.00	+0.00 / -0.05	65.00	+0.19 / -0.00	11.00	+0.25 / -0.00	17.93
R048060060RC*	48.00	+0.00 / -0.05	48.00	60.00	6.00	48.00	+0.00 / -0.05	60.00	+0.19 / -0.00	7.00	+0.25 / -0.00	10.67
R048060100RC*	48.00	+0.00 / -0.05	48.00	60.00	10.00	48.00	+0.00 / -0.05	60.00	+0.19 / -0.00	11.00	+0.25 / -0.00	12.49
R050057100RC	50.00	+0.00 / -0.05	50.00	57.00	10.00	50.00	+0.00 / -0.05	57.00	+0.19 / -0.00	11.00	+0.25 / -0.00	12.55
R050058080RC*	50.00	+0.00 / -0.05	50.00	58.00	8.00	50.00	+0.00 / -0.05	58.00	+0.19 / -0.00	9.00	+0.25 / -0.00	12.90

*** : 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.	
R050058114RC	50.00	+0.00 / -0.05	50.00	58.00	11.40	50.00	+0.00 / -0.05	58.00	+0.19 / -0.00	12.50	+0.25 / -0.00	12.90
R050060060RC	50.00	+0.00 / -0.05	50.00	60.00	6.00	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	7.00	+0.25 / -0.00	11.38
R050060073RC	50.00	+0.00 / -0.05	50.00	60.00	7.30	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	8.00	+0.25 / -0.00	12.55
R050060080RC	50.00	+0.00 / -0.05	50.00	60.00	8.00	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	9.00	+0.25 / -0.00	14.00
R050060100RC	50.00	+0.00 / -0.05	50.00	60.00	10.00	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	11.00	+0.25 / -0.00	14.00
R050060118RC	50.00	+0.00 / -0.05	50.00	60.00	11.80	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	13.00	+0.25 / -0.00	10.14
R050060120RC*	50.00	+0.00 / -0.05	50.00	60.00	12.00	50.00	+0.00 / -0.05	60.00	+0.19 / -0.00	13.00	+0.25 / -0.00	10.14
R050062095RC	50.00	+0.00 / -0.05	50.00	62.70	9.50	50.00	+0.00 / -0.05	62.70	+0.19 / -0.00	10.50	+0.25 / -0.00	13.08
R050065090RC	50.00	+0.00 / -0.05	50.00	65.00	9.00	50.00	+0.00 / -0.05	65.00	+0.19 / -0.00	10.00	+0.25 / -0.00	13.08
R050065095RC	50.00	+0.00 / -0.05	50.00	65.00	9.50	50.00	+0.00 / -0.05	65.00	+0.19 / -0.00	10.50	+0.25 / -0.00	12.84
R050065100RC	50.00	+0.00 / -0.05	50.00	65.00	10.00	50.00	+0.00 / -0.05	65.00	+0.19 / -0.00	11.00	+0.25 / -0.00	10.74
R050065109RC	50.00	+0.00 / -0.05	50.00	65.00	10.90	50.00	+0.00 / -0.05	65.00	+0.19 / -0.00	12.00	+0.25 / -0.00	15.70
R050065114RC	50.00	+0.00 / -0.05	50.00	65.00	11.40	50.00	+0.00 / -0.05	65.00	+0.19 / -0.00	12.50	+0.25 / -0.00	22.19
R050065145RC	50.00	+0.00 / -0.05	50.00	65.00	14.50	50.00	+0.00 / -0.05	65.00	+0.19 / -0.00	16.00	+0.25 / -0.00	10.22
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	18.42
R052062100RC*	52.00	+0.00 / -0.05	52.00	62.00	10.00	52.00	+0.00 / -0.05	62.00	+0.19 / -0.00	11.00	+0.25 / -0.00	16.51
R053065090RC*	53.00	+0.00 / -0.05	53.00	65.00	9.00	53.00	+0.00 / -0.05	65.00	+0.19 / -0.00	10.00	+0.25 / -0.00	12.58
R055063080RC	55.00	+0.00 / -0.05	55.00	63.00	8.00	55.00	+0.00 / -0.05	63.00	+0.19 / -0.00	9.00	+0.25 / -0.00	17.22
R055063114RC*	55.00	+0.00 / -0.05	55.00	63.00	11.40	55.00	+0.00 / -0.05	63.00	+0.19 / -0.00	12.50	+0.25 / -0.00	17.22
R055065060RC*	55.00	+0.00 / -0.05	55.00	65.00	6.00	55.00	+0.00 / -0.05	65.00	+0.19 / -0.00	7.00	+0.25 / -0.00	11.79
R055065073RC	55.00	+0.00 / -0.05	55.00	65.00	7.30	55.00	+0.00 / -0.05	65.00	+0.19 / -0.00	8.00	+0.25 / -0.00	14.79
R055065082RC	55.00	+0.00 / -0.05	55.00	65.00	8.20	55.00	+0.00 / -0.05	65.00	+0.19 / -0.00	9.00	+0.25 / -0.00	11.79
R055065100RC*	55.00	+0.00 / -0.05	55.00	65.00	10.00	55.00	+0.00 / -0.05	65.00	+0.19 / -0.00	11.00	+0.25 / -0.00	10.14
R055065118RC	55.00	+0.00 / -0.05	55.00	65.00	11.80	55.00	+0.00 / -0.05	65.00	+0.19 / -0.00	13.00	+0.25 / -0.00	12.17
R055067100RC*	55.00	+0.00 / -0.05	55.00	67.00	10.00	55.00	+0.00 / -0.05	67.00	+0.19 / -0.00	11.00	+0.25 / -0.00	22.54
R055068100RC	55.00	+0.00 / -0.05	55.00	68.00	10.00	55.00	+0.00 / -0.05	68.00	+0.19 / -0.00	11.00	+0.25 / -0.00	14.57
R055070090RC	55.00	+0.00 / -0.05	55.00	70.00	9.00	55.00	+0.00 / -0.05	70.00	+0.19 / -0.00	10.00	+0.25 / -0.00	15.30
R055070118RC	55.00	+0.00 / -0.05	55.00	70.00	11.80	55.00	+0.00 / -0.05	70.00	+0.19 / -0.00	13.00	+0.25 / -0.00	13.18
R055075120RC	55.00	+0.00 / -0.05	55.00	75.00	12.00	55.00	+0.00 / -0.05	75.00	+0.19 / -0.00	13.00	+0.25 / -0.00	18.49
R056066065RC*	56.00	+0.00 / -0.05	56.00	66.00	6.50	56.00	+0.00 / -0.05	66.00	+0.19 / -0.00	7.50	+0.25 / -0.00	14.54
R056066080RC*	56.00	+0.00 / -0.05	56.00	66.00	8.00	56.00	+0.00 / -0.05	66.00	+0.19 / -0.00	9.00	+0.25 / -0.00	14.54
R056066100RC	56.00	+0.00 / -0.05	56.00	66.00	10.00	56.00	+0.00 / -0.05	66.00	+0.19 / -0.00	11.00	+0.25 / -0.00	14.54
R056071100RC	56.00	+0.00 / -0.05	56.00	71.00	10.00	56.00	+0.00 / -0.05	71.00	+0.19 / -0.00	11.00	+0.25 / -0.00	12.52
R056071114RC	56.00	+0.00 / -0.05	56.00	71.00	11.40	56.00	+0.00 / -0.05	71.00	+0.19 / -0.00	12.50	+0.25 / -0.00	16.85
R060070060RC	60.00	+0.00 / -0.05	60.00	70.00	6.00	60.00	+0.00 / -0.05	70.00	+0.19 / -0.00	7.00	+0.25 / -0.00	11.20
R060070100RC	60.00	+0.00 / -0.05	60.00	70.00	10.00	60.00	+0.00 / -0.05	70.00	+0.19 / -0.00	11.00	+0.25 / -0.00	16.23
R060070114RC*	60.00	+0.00 / -0.05	60.00	70.00	11.40	60.00	+0.00 / -0.05	70.00	+0.19 / -0.00	12.50	+0.25 / -0.00	13.94
R060070118RC	60.00	+0.00 / -0.05	60.00	70.00	11.80	60.00	+0.00 / -0.05	70.00	+0.19 / -0.00	13.00	+0.25 / -0.00	11.83
R060070120RC*	60.00	+0.00 / -0.05	60.00	70.00	12.00	60.00	+0.00 / -0.05	70.00	+0.19 / -0.00	13.00	+0.25 / -0.00	13.94
R060072100RC	60.00	+0.00 / -0.05	60.00	72.00	10.00	60.00	+0.00 / -0.05	72.00	+0.19 / -0.00	11.00	+0.25 / -0.00	11.83
R060073100RC*	60.00	+0.00 / -0.05	60.00	73.00	10.00	60.00	+0.00 / -0.05	73.00	+0.19 / -0.00	11.00	+0.25 / -0.00	12.52
R060075090RC	60.00	+0.00 / -0.05	60.00	75.00	9.00	60.00	+0.00 / -0.05	75.00	+0.19 / -0.00	10.00	+0.25 / -0.00	15.30
R060075100RC	60.00	+0.00 / -0.05	60.00	75.00	10.00	60.00	+0.00 / -0.05	75.00	+0.19 / -0.00	11.00	+0.25 / -0.00	17.06
R060075114RC*	60.00	+0.00 / -0.05	60.00	75.00	11.40	60.00	+0.00 / -0.05	75.00	+0.19 / -0.00	12.50	+0.25 / -0.00	14.35
R060075118RC	60.00	+0.00 / -0.05	60.00	75.00	11.80	60.00	+0.00 / -0.05	75.00	+0.19 / -0.00	13.00	+0.25 / -0.00	18.17
R060075120RC*	60.00	+0.00 / -0.05	60.00	75.00	12.00	60.00	+0.00 / -0.05	75.00	+0.19 / -0.00	13.00	+0.25 / -0.00	15.05
R060075205RC*	60.00	+0.00 / -0.05	60.00	75.00	20.50	60.00	+0.00 / -0.05	75.00	+0.19 / -0.00	22.50	+0.25 / -0.00	25.08
R060080114RC*	60.00	+0.00 / -0.05	60.00	80.00	11.40	60.00	+0.00 / -0.05	80.00	+0.19 / -0.00	12.50	+0.25 / -0.00	21.03

*** : 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.	
R060080120RC	60.00	+0.00 / -0.05	60.00	80.00	12.00	60.00	+0.00 / -0.05	80.00	+0.19 / -0.00	13.00	+0.25 / -0.00	20.70
R063071080RC*	63.00	+0.00 / -0.05	63.00	71.00	8.00	63.00	+0.00 / -0.05	71.00	+0.19 / -0.00	9.00	+0.25 / -0.00	21.14
R063073060RC	63.00	+0.00 / -0.05	63.00	73.00	6.00	63.00	+0.00 / -0.05	73.00	+0.19 / -0.00	7.00	+0.25 / -0.00	13.74
R063073100RC*	63.00	+0.00 / -0.05	63.00	73.00	10.00	63.00	+0.00 / -0.05	73.00	+0.19 / -0.00	11.00	+0.25 / -0.00	13.74
R063073118RC	63.00	+0.00 / -0.05	63.00	73.00	11.80	63.00	+0.00 / -0.05	73.00	+0.19 / -0.00	13.00	+0.25 / -0.00	13.74
R063073120RC*	63.00	+0.00 / -0.05	63.00	73.00	12.00	63.00	+0.00 / -0.05	73.00	+0.19 / -0.00	13.00	+0.25 / -0.00	16.40
R063075120RC	63.00	+0.00 / -0.05	63.00	75.00	12.00	63.00	+0.00 / -0.05	75.00	+0.19 / -0.00	13.00	+0.25 / -0.00	15.05
R063078100RC	63.00	+0.00 / -0.05	63.00	78.00	10.00	63.00	+0.00 / -0.05	78.00	+0.19 / -0.00	11.00	+0.25 / -0.00	13.18
R063078114RC	63.00	+0.00 / -0.05	63.00	78.00	11.40	63.00	+0.00 / -0.05	78.00	+0.19 / -0.00	12.50	+0.25 / -0.00	19.09
R063083120RC	63.00	+0.00 / -0.05	63.00	83.00	12.00	63.00	+0.00 / -0.05	83.00	+0.19 / -0.00	13.00	+0.25 / -0.00	15.05
R063083135RC*	63.00	+0.00 / -0.05	63.00	83.00	13.50	63.00	+0.00 / -0.05	83.00	+0.19 / -0.00	14.50	+0.25 / -0.00	15.05
R063083150RC*	63.00	+0.00 / -0.05	63.00	83.00	15.00	63.00	+0.00 / -0.05	83.00	+0.19 / -0.00	16.00	+0.25 / -0.00	15.05
R065075060RC*	65.00	+0.00 / -0.06	65.00	75.00	6.00	65.00	+0.00 / -0.06	75.00	+0.19 / -0.00	7.00	+0.25 / -0.00	12.17
R065075077RC	65.00	+0.00 / -0.06	65.00	75.00	7.70	65.00	+0.00 / -0.06	75.00	+0.19 / -0.00	9.00	+0.25 / -0.00	12.17
R065075100RC	65.00	+0.00 / -0.06	65.00	75.00	10.00	65.00	+0.00 / -0.06	75.00	+0.19 / -0.00	11.00	+0.25 / -0.00	13.18
R065075114RC*	65.00	+0.00 / -0.06	65.00	75.00	11.40	65.00	+0.00 / -0.06	75.00	+0.19 / -0.00	12.50	+0.25 / -0.00	15.05
R065075118RC	65.00	+0.00 / -0.06	65.00	75.00	11.80	65.00	+0.00 / -0.06	75.00	+0.19 / -0.00	13.00	+0.25 / -0.00	11.51
R065075120RC*	65.00	+0.00 / -0.06	65.00	75.00	12.00	65.00	+0.00 / -0.06	75.00	+0.19 / -0.00	13.00	+0.25 / -0.00	25.74
R065077095RC	65.00	+0.00 / -0.06	65.00	77.70	9.50	65.00	+0.00 / -0.06	77.70	+0.19 / -0.00	10.50	+0.25 / -0.00	14.11
R065078100RC	65.00	+0.00 / -0.06	65.00	78.00	10.00	65.00	+0.00 / -0.06	78.00	+0.19 / -0.00	11.00	+0.25 / -0.00	16.29
R065080090RC	65.00	+0.00 / -0.06	65.00	80.00	9.00	65.00	+0.00 / -0.06	80.00	+0.19 / -0.00	10.00	+0.25 / -0.00	23.15
R065080118RC	65.00	+0.00 / -0.06	65.00	80.00	11.80	65.00	+0.00 / -0.06	80.00	+0.19 / -0.00	13.00	+0.25 / -0.00	23.15
R065085120RC	65.00	+0.00 / -0.06	65.00	85.00	12.00	65.00	+0.00 / -0.06	85.00	+0.19 / -0.00	13.00	+0.25 / -0.00	26.17
R067077060RC	67.00	+0.00 / -0.06	67.00	77.00	6.00	67.00	+0.00 / -0.06	77.00	+0.19 / -0.00	7.00	+0.25 / -0.00	14.11
R068078120RC*	68.00	+0.00 / -0.06	68.00	78.00	12.00	68.00	+0.00 / -0.06	78.00	+0.19 / -0.00	13.00	+0.25 / -0.00	20.01
R070078080RC*	70.00	+0.00 / -0.06	70.00	78.00	8.00	70.00	+0.00 / -0.06	78.00	+0.19 / -0.00	9.00	+0.25 / -0.00	15.74
R070078114RC*	70.00	+0.00 / -0.06	70.00	78.00	11.40	70.00	+0.00 / -0.06	78.00	+0.19 / -0.00	12.50	+0.25 / -0.00	15.74
R070080060RC*	70.00	+0.00 / -0.06	70.00	80.00	6.00	70.00	+0.00 / -0.06	80.00	+0.22 / -0.00	7.00	+0.25 / -0.00	15.74
R070080080RC	70.00	+0.00 / -0.06	70.00	80.00	8.00	70.00	+0.00 / -0.06	80.00	+0.22 / -0.00	9.00	+0.25 / -0.00	15.74
R070080114RC*	70.00	+0.00 / -0.06	70.00	80.00	11.40	70.00	+0.00 / -0.06	80.00	+0.22 / -0.00	12.50	+0.25 / -0.00	15.74
R070080118RC	70.00	+0.00 / -0.06	70.00	80.00	11.80	70.00	+0.00 / -0.06	80.00	+0.22 / -0.00	13.00	+0.25 / -0.00	14.90
R070080120RC*	70.00	+0.00 / -0.06	70.00	80.00	12.00	70.00	+0.00 / -0.06	80.00	+0.22 / -0.00	13.00	+0.25 / -0.00	19.33
R070082087RC	70.00	+0.00 / -0.06	70.00	82.00	8.70	70.00	+0.00 / -0.06	82.00	+0.22 / -0.00	9.60	+0.25 / -0.00	14.90
R070082100RC	70.00	+0.00 / -0.06	70.00	82.00	10.00	70.00	+0.00 / -0.06	82.00	+0.22 / -0.00	11.00	+0.25 / -0.00	14.90
R070083100RC	70.00	+0.00 / -0.06	70.00	83.00	10.00	70.00	+0.00 / -0.06	83.00	+0.22 / -0.00	11.00	+0.25 / -0.00	13.05
R070085090RC	70.00	+0.00 / -0.06	70.00	85.00	9.00	70.00	+0.00 / -0.06	85.00	+0.22 / -0.00	10.00	+0.25 / -0.00	15.67
R070085100RC	70.00	+0.00 / -0.06	70.00	85.00	10.00	70.00	+0.00 / -0.06	85.00	+0.22 / -0.00	11.00	+0.25 / -0.00	14.69
R070085114RC	70.00	+0.00 / -0.06	70.00	85.00	11.40	70.00	+0.00 / -0.06	85.00	+0.22 / -0.00	12.50	+0.25 / -0.00	14.69
R070085120RC	70.00	+0.00 / -0.06	70.00	85.00	12.00	70.00	+0.00 / -0.06	85.00	+0.22 / -0.00	13.00	+0.25 / -0.00	13.05
R070085205RC*	70.00	+0.00 / -0.06	70.00	85.00	20.50	70.00	+0.00 / -0.06	85.00	+0.22 / -0.00	22.50	+0.25 / -0.00	16.85
R070090120RC	70.00	+0.00 / -0.06	70.00	90.00	12.00	70.00	+0.00 / -0.06	90.00	+0.22 / -0.00	13.00	+0.25 / -0.00	21.36
R075083115RC*	75.00	+0.00 / -0.06	75.00	83.00	11.50	75.00	+0.00 / -0.06	83.00	+0.22 / -0.00	12.50	+0.25 / -0.00	10.62
R075085060RC*	75.00	+0.00 / -0.06	75.00	85.00	6.00	75.00	+0.00 / -0.06	85.00	+0.22 / -0.00	7.00	+0.25 / -0.00	10.62
R075085087RC*	75.00	+0.00 / -0.06	75.00	85.00	8.70	75.00	+0.00 / -0.06	85.00	+0.22 / -0.00	9.50	+0.25 / -0.00	15.74
R075085114RC*	75.00	+0.00 / -0.06	75.00	85.00	11.40	75.00	+0.00 / -0.06	85.00	+0.22 / -0.00	12.50	+0.25 / -0.00	15.74
R075085118RC	75.00	+0.00 / -0.06	75.00	85.00	11.80	75.00	+0.00 / -0.06	85.00	+0.22 / -0.00	13.00	+0.25 / -0.00	13.18
R075085120RC	75.00	+0.00 / -0.06	75.00	85.00	12.00	75.00	+0.00 / -0.06	85.00	+0.22 / -0.00	13.00	+0.25 / -0.00	15.74
R075088100RC	75.00	+0.00 / -0.06	75.00	88.00	10.00	75.00	+0.00 / -0.06	88.00	+0.22 / -0.00	11.00	+0.25 / -0.00	14.49

*** : 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.	
R075090090RC	75.00	+0.00 / -0.06	75.00	90.00	9.00	75.00	+0.00 / -0.06	90.00	+0.22 / -0.00	10.00	+0.25 / -0.00	16.57
R075090114RC*	75.00	+0.00 / -0.06	75.00	90.00	11.40	75.00	+0.00 / -0.06	90.00	+0.22 / -0.00	12.50	+0.25 / -0.00	15.74
R075095120RC	75.00	+0.00 / -0.06	75.00	95.00	12.00	75.00	+0.00 / -0.06	95.00	+0.22 / -0.00	13.00	+0.25 / -0.00	21.93
R077087120RC*	77.00	+0.00 / -0.09	77.00	87.00	12.00	77.00	+0.00 / -0.09	87.00	+0.22 / -0.00	13.00	+0.25 / -0.00	21.91
R078086085RC*	78.00	+0.00 / -0.09	78.00	86.00	8.50	78.00	+0.00 / -0.09	86.00	+0.22 / -0.00	9.50	+0.25 / -0.00	16.50
R078086114RC*	78.00	+0.00 / -0.09	78.00	86.00	11.40	78.00	+0.00 / -0.09	86.00	+0.22 / -0.00	12.50	+0.25 / -0.00	16.50
R080088114RC*	80.00	+0.00 / -0.09	80.00	88.00	11.40	80.00	+0.00 / -0.09	88.00	+0.22 / -0.00	12.50	+0.25 / -0.00	16.50
R080090060RC*	80.00	+0.00 / -0.09	80.00	90.00	6.00	80.00	+0.00 / -0.09	90.00	+0.22 / -0.00	7.00	+0.25 / -0.00	11.57
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	11.57
R080090100RC	80.00	+0.00 / -0.09	80.00	90.00	10.00	80.00	+0.00 / -0.09	90.00	+0.22 / -0.00	11.00	+0.25 / -0.00	14.96
R080090118RC	80.00	+0.00 / -0.09	80.00	90.00	11.80	80.00	+0.00 / -0.09	90.00	+0.22 / -0.00	13.00	+0.25 / -0.00	17.33
R080090120RC	80.00	+0.00 / -0.09	80.00	90.00	12.00	80.00	+0.00 / -0.09	90.00	+0.22 / -0.00	13.00	+0.25 / -0.00	20.05
R080092087RC	80.00	+0.00 / -0.09	80.00	92.00	8.70	80.00	+0.00 / -0.09	92.00	+0.22 / -0.00	9.60	+0.25 / -0.00	17.51
R080093100RC	80.00	+0.00 / -0.09	80.00	93.00	10.00	80.00	+0.00 / -0.09	93.00	+0.22 / -0.00	11.00	+0.25 / -0.00	17.13
R080095090RC	80.00	+0.00 / -0.09	80.00	95.00	9.00	80.00	+0.00 / -0.09	95.00	+0.22 / -0.00	10.00	+0.25 / -0.00	18.67
R080095100RC	80.00	+0.00 / -0.09	80.00	95.00	10.00	80.00	+0.00 / -0.09	95.00	+0.22 / -0.00	11.00	+0.25 / -0.00	17.62
R080095114RC	80.00	+0.00 / -0.09	80.00	95.00	11.40	80.00	+0.00 / -0.09	95.00	+0.22 / -0.00	12.50	+0.25 / -0.00	29.73
R080095118RC	80.00	+0.00 / -0.09	80.00	95.00	11.80	80.00	+0.00 / -0.09	95.00	+0.22 / -0.00	13.00	+0.25 / -0.00	19.61
R080095120RC	80.00	+0.00 / -0.09	80.00	95.00	12.00	80.00	+0.00 / -0.09	95.00	+0.22 / -0.00	13.00	+0.25 / -0.00	25.71
R080100100RC*	80.00	+0.00 / -0.09	80.00	100.00	10.00	80.00	+0.00 / -0.09	100.00	+0.22 / -0.00	11.00	+0.25 / -0.00	11.43
R080100120RC	80.00	+0.00 / -0.09	80.00	100.00	12.00	80.00	+0.00 / -0.09	100.00	+0.22 / -0.00	13.00	+0.25 / -0.00	25.32
R080100145RC	80.00	+0.00 / -0.09	80.00	100.00	14.50	80.00	+0.00 / -0.09	100.00	+0.22 / -0.00	16.00	+0.25 / -0.00	24.99
R080100150RC*	80.00	+0.00 / -0.09	80.00	100.00	15.00	80.00	+0.00 / -0.09	100.00	+0.22 / -0.00	16.00	+0.25 / -0.00	37.92
R080110164RC	80.00	+0.00 / -0.09	80.00	110.00	16.40	80.00	+0.00 / -0.09	110.00	+0.22 / -0.00	18.00	+0.25 / -0.00	43.06
R085093100RC*	85.00	+0.00 / -0.09	85.00	93.00	10.00	85.00	+0.00 / -0.09	93.00	+0.22 / -0.00	11.00	+0.25 / -0.00	14.11
R085093115RC*	85.00	+0.00 / -0.09	85.00	93.00	11.50	85.00	+0.00 / -0.09	93.00	+0.22 / -0.00	12.50	+0.25 / -0.00	26.25
R085093120RC*	85.00	+0.00 / -0.09	85.00	93.00	12.00	85.00	+0.00 / -0.09	93.00	+0.22 / -0.00	13.00	+0.25 / -0.00	14.11
R085095120RC*	85.00	+0.00 / -0.09	85.00	95.00	12.00	85.00	+0.00 / -0.09	95.00	+0.22 / -0.00	13.00	+0.25 / -0.00	14.11
R085100090RC	85.00	+0.00 / -0.09	85.00	100.00	9.00	85.00	+0.00 / -0.09	100.00	+0.22 / -0.00	10.00	+0.25 / -0.00	24.87
R085100118RC	85.00	+0.00 / -0.09	85.00	100.00	11.80	85.00	+0.00 / -0.09	100.00	+0.22 / -0.00	13.00	+0.25 / -0.00	22.06
R085100120RC*	85.00	+0.00 / -0.09	85.00	100.00	12.00	85.00	+0.00 / -0.09	100.00	+0.22 / -0.00	13.00	+0.25 / -0.00	30.48
R085105120RC	85.00	+0.00 / -0.09	85.00	105.00	12.00	85.00	+0.00 / -0.09	105.00	+0.22 / -0.00	13.00	+0.25 / -0.00	23.15
R090098080RC*	90.00	+0.00 / -0.09	90.00	98.00	8.00	90.00	+0.00 / -0.09	98.00	+0.22 / -0.00	9.00	+0.25 / -0.00	13.38
R090098109RC*	90.00	+0.00 / -0.09	90.00	98.00	10.90	90.00	+0.00 / -0.09	98.00	+0.22 / -0.00	12.00	+0.25 / -0.00	13.38
R090098115RC*	90.00	+0.00 / -0.09	90.00	98.00	11.50	90.00	+0.00 / -0.09	98.00	+0.22 / -0.00	12.50	+0.25 / -0.00	13.38
R090100068RC*	90.00	+0.00 / -0.09	90.00	100.00	6.80	90.00	+0.00 / -0.09	100.00	+0.22 / -0.00	7.50	+0.25 / -0.00	19.61
R090100090RC	90.00	+0.00 / -0.09	90.00	100.00	9.00	90.00	+0.00 / -0.09	100.00	+0.22 / -0.00	10.00	+0.25 / -0.00	19.61
R090100100RC*	90.00	+0.00 / -0.09	90.00	100.00	10.00	90.00	+0.00 / -0.09	100.00	+0.22 / -0.00	11.00	+0.25 / -0.00	13.38
R090100115RC*	90.00	+0.00 / -0.09	90.00	100.00	11.50	90.00	+0.00 / -0.09	100.00	+0.22 / -0.00	12.50	+0.25 / -0.00	17.92
R090100118RC	90.00	+0.00 / -0.09	90.00	100.00	11.80	90.00	+0.00 / -0.09	100.00	+0.22 / -0.00	13.00	+0.25 / -0.00	19.61
R090102087RC	90.00	+0.00 / -0.09	90.00	102.00	8.70	90.00	+0.00 / -0.09	102.00	+0.22 / -0.00	9.60	+0.25 / -0.00	19.83
R090105090RC	90.00	+0.00 / -0.09	90.00	105.00	9.00	90.00	+0.00 / -0.09	105.00	+0.22 / -0.00	10.00	+0.25 / -0.00	18.61
R090105100RC	90.00	+0.00 / -0.09	90.00	105.00	10.00	90.00	+0.00 / -0.09	105.00	+0.22 / -0.00	11.00	+0.25 / -0.00	21.09
R090105114RC	90.00	+0.00 / -0.09	90.00	105.00	11.40	90.00	+0.00 / -0.09	105.00	+0.22 / -0.00	12.50	+0.25 / -0.00	18.21
R090105115RC*	90.00	+0.00 / -0.09	90.00	105.00	11.50	90.00	+0.00 / -0.09	105.00	+0.22 / -0.00	12.50	+0.25 / -0.00	21.27
R090105120RC*	90.00	+0.00 / -0.09	90.00	105.00	12.00	90.00	+0.00 / -0.09	105.00	+0.22 / -0.00	13.00	+0.25 / -0.00	13.72
R090110100RC*	90.00	+0.00 / -0.09	90.00	110.00	10.00	90.00	+0.00 / -0.09	110.00	+0.22 / -0.00	11.00	+0.25 / -0.00	13.72
R090110120RC	90.00	+0.00 / -0.09	90.00	110.00	12.00	90.00	+0.00 / -0.09	110.00	+0.22 / -0.00	13.00	+0.25 / -0.00	21.51

*** : 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.	
R090110130RC*	90.00	+0.00 / -0.09	90.00	110.00	13.00	90.00	+0.00 / -0.09	110.00	+0.22 / -0.00	13.00	+0.25 / -0.00	14.12
R090110150RC*	90.00	+0.00 / -0.09	90.00	110.00	15.00	90.00	+0.00 / -0.09	110.00	+0.22 / -0.00	15.00	+0.25 / -0.00	14.12
R092107114RC*	92.00	+0.00 / -0.09	92.00	107.00	11.50	92.00	+0.00 / -0.09	107.00	+0.22 / -0.00	12.50	+0.25 / -0.00	31.26
R095105085RC*	95.00	+0.00 / -0.09	95.00	105.00	8.50	95.00	+0.00 / -0.09	105.00	+0.22 / -0.00	9.50	+0.25 / -0.00	24.41
R095105120RC*	95.00	+0.00 / -0.09	95.00	105.00	12.00	95.00	+0.00 / -0.09	105.00	+0.22 / -0.00	13.00	+0.25 / -0.00	14.12
R095110090RC	95.00	+0.00 / -0.09	95.00	110.00	9.00	95.00	+0.00 / -0.09	110.00	+0.22 / -0.00	10.00	+0.25 / -0.00	21.51
R095110100RC	95.00	+0.00 / -0.09	95.00	110.00	10.00	95.00	+0.00 / -0.09	110.00	+0.22 / -0.00	11.00	+0.25 / -0.00	21.51
R095110120RC*	95.00	+0.00 / -0.09	95.00	110.00	12.00	95.00	+0.00 / -0.09	110.00	+0.22 / -0.00	13.00	+0.25 / -0.00	16.97
R095115120RC	95.00	+0.00 / -0.09	95.00	115.00	12.00	95.00	+0.00 / -0.09	115.00	+0.22 / -0.00	13.00	+0.25 / -0.00	20.19
R096104109RC*	96.00	+0.00 / -0.09	96.00	104.00	10.90	96.00	+0.00 / -0.09	104.00	+0.22 / -0.00	12.00	+0.25 / -0.00	20.41
R100110109RC*	100.00	+0.00 / -0.09	100.00	110.00	10.90	100.00	+0.00 / -0.09	110.00	+0.22 / -0.00	12.50	+0.25 / -0.00	20.89
R100110115RC*	100.00	+0.00 / -0.09	100.00	110.00	11.50	100.00	+0.00 / -0.09	110.00	+0.22 / -0.00	12.50	+0.25 / -0.00	23.00
R100115090RC	100.00	+0.00 / -0.09	100.00	115.00	9.00	100.00	+0.00 / -0.09	115.00	+0.22 / -0.00	10.00	+0.25 / -0.00	23.06
R100115118RC	100.00	+0.00 / -0.09	100.00	115.00	11.80	100.00	+0.00 / -0.09	115.00	+0.22 / -0.00	13.00	+0.25 / -0.00	24.46
R100115120RC	100.00	+0.00 / -0.09	100.00	115.00	12.00	100.00	+0.00 / -0.09	115.00	+0.22 / -0.00	13.00	+0.25 / -0.00	23.06
R100120115RC*	100.00	+0.00 / -0.09	100.00	120.00	11.50	100.00	+0.00 / -0.09	120.00	+0.22 / -0.00	12.50	+0.25 / -0.00	16.82
R100120118RC	100.00	+0.00 / -0.09	100.00	120.00	11.80	100.00	+0.00 / -0.09	120.00	+0.22 / -0.00	13.00	+0.25 / -0.00	30.80
R100120120RC	100.00	+0.00 / -0.09	100.00	120.00	12.00	100.00	+0.00 / -0.09	120.00	+0.22 / -0.00	13.00	+0.25 / -0.00	36.77
R100120145RC	100.00	+0.00 / -0.09	100.00	120.00	14.50	100.00	+0.00 / -0.09	120.00	+0.22 / -0.00	16.00	+0.25 / -0.00	30.80
R100120150RC*	100.00	+0.00 / -0.09	100.00	120.00	15.00	100.00	+0.00 / -0.09	120.00	+0.22 / -0.00	16.00	+0.25 / -0.00	35.89
R105113100RC*	105.00	+0.00 / -0.13	105.00	113.00	10.00	105.00	+0.00 / -0.13	113.00	+0.22 / -0.00	11.00	+0.25 / -0.00	27.42
R105113115RC*	105.00	+0.00 / -0.13	105.00	113.00	11.50	105.00	+0.00 / -0.13	113.00	+0.22 / -0.00	12.50	+0.25 / -0.00	29.59
R105115115RC	105.00	+0.00 / -0.13	105.00	115.00	11.50	105.00	+0.00 / -0.13	115.00	+0.22 / -0.00	12.50	+0.25 / -0.00	22.01
R105115132RC*	105.00	+0.00 / -0.13	105.00	115.00	13.20	105.00	+0.00 / -0.13	115.00	+0.22 / -0.00	14.50	+0.25 / -0.00	23.68
R105120100RC*	105.00	+0.00 / -0.13	105.00	120.00	10.00	105.00	+0.00 / -0.13	120.00	+0.22 / -0.00	11.00	+0.25 / -0.00	16.82
R105120145RC*	105.00	+0.00 / -0.13	105.00	120.00	14.50	105.00	+0.00 / -0.13	120.00	+0.22 / -0.00	16.00	+0.25 / -0.00	27.23
R108123109RC*	108.00	+0.00 / -0.13	108.00	123.00	10.90	108.00	+0.00 / -0.13	123.00	+0.22 / -0.00	12.00	+0.25 / -0.00	29.36
R110118115RC	110.00	+0.00 / -0.13	110.00	118.00	11.50	110.00	+0.00 / -0.13	118.00	+0.22 / -0.00	12.50	+0.25 / -0.00	28.01
R110125090RC	110.00	+0.00 / -0.13	110.00	125.00	9.00	110.00	+0.00 / -0.13	125.00	+0.22 / -0.00	10.00	+0.25 / -0.00	29.50
R110125120RC*	110.00	+0.00 / -0.13	110.00	125.00	12.00	110.00	+0.00 / -0.13	125.00	+0.22 / -0.00	13.00	+0.25 / -0.00	13.85
R110125145RC	110.00	+0.00 / -0.13	110.00	125.00	14.50	110.00	+0.00 / -0.13	125.00	+0.22 / -0.00	16.00	+0.25 / -0.00	38.04
R110130118RC	110.00	+0.00 / -0.13	110.00	130.00	11.80	110.00	+0.00 / -0.13	130.00	+0.22 / -0.00	13.00	+0.25 / -0.00	42.10
R110130145RC	110.00	+0.00 / -0.13	110.00	130.00	14.50	110.00	+0.00 / -0.13	130.00	+0.22 / -0.00	16.00	+0.25 / -0.00	42.10
R110130150RC*	110.00	+0.00 / -0.13	110.00	130.00	15.00	110.00	+0.00 / -0.13	130.00	+0.22 / -0.00	16.00	+0.25 / -0.00	50.37
R110135145RC	110.00	+0.00 / -0.13	110.00	135.00	14.50	110.00	+0.00 / -0.13	135.00	+0.22 / -0.00	16.00	+0.25 / -0.00	51.93
R112125090RC*	112.00	+0.00 / -0.13	112.00	125.00	9.00	112.00	+0.00 / -0.13	125.00	+0.25 / -0.00	10.00	+0.25 / -0.00	28.03
R113123085RC*	113.00	+0.00 / -0.13	113.00	123.00	8.50	113.00	+0.00 / -0.13	123.00	+0.25 / -0.00	9.50	+0.25 / -0.00	32.38
R115125120RC*	115.00	+0.00 / -0.13	115.00	125.00	12.00	115.00	+0.00 / -0.13	125.00	+0.25 / -0.00	13.00	+0.25 / -0.00	14.35
R115125140RC	115.00	+0.00 / -0.13	115.00	125.00	14.00	115.00	+0.00 / -0.13	125.00	+0.25 / -0.00	15.00	+0.25 / -0.00	35.52
R115130090RC	115.00	+0.00 / -0.13	115.00	130.00	9.00	115.00	+0.00 / -0.13	130.00	+0.25 / -0.00	10.00	+0.25 / -0.00	34.60
R115130109RC	115.00	+0.00 / -0.13	115.00	130.00	10.90	115.00	+0.00 / -0.13	130.00	+0.25 / -0.00	12.00	+0.25 / -0.00	34.60
R115130145RC	115.00	+0.00 / -0.13	115.00	130.00	14.50	115.00	+0.00 / -0.13	130.00	+0.25 / -0.00	16.00	+0.25 / -0.00	34.60
R120130109RC	120.00	+0.00 / -0.13	120.00	130.00	10.90	120.00	+0.00 / -0.13	130.00	+0.25 / -0.00	12.00	+0.25 / -0.00	36.80
R120130115RC*	120.00	+0.00 / -0.13	120.00	130.00	11.50	120.00	+0.00 / -0.13	130.00	+0.25 / -0.00	12.50	+0.25 / -0.00	26.09
R120130140RC*	120.00	+0.00 / -0.13	120.00	130.00	14.00	120.00	+0.00 / -0.13	130.00	+0.25 / -0.00	15.00	+0.25 / -0.00	39.50
R120135090RC	120.00	+0.00 / -0.13	120.00	135.00	9.00	120.00	+0.00 / -0.13	135.00	+0.25 / -0.00	10.00	+0.25 / -0.00	44.53
R120135150RC*	120.00	+0.00 / -0.13	120.00	135.00	15.00	120.00	+0.00 / -0.13	135.00	+0.25 / -0.00	16.00	+0.25 / -0.00	15.10
R120140120RC	120.00	+0.00 / -0.13	120.00	140.00	12.00	120.00	+0.00 / -0.13	140.00	+0.25 / -0.00	13.00	+0.25 / -0.00	52.27

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

RC SERIES - AU 93A

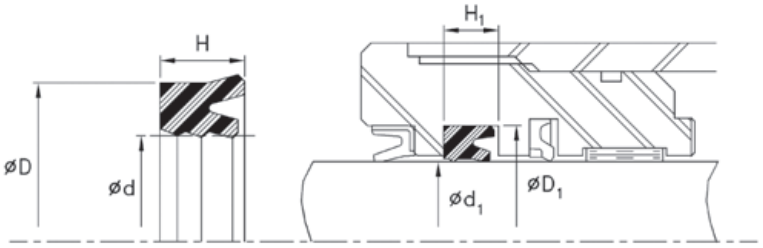
Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R120140145RC	120.00	+0.00 / -0.13	120.00	140.00	14.50	120.00	+0.00 / -0.13	140.00	+0.25 / -0.00	16.00	+0.25 / -0.00	52.27
R120140150RC*	120.00	+0.00 / -0.13	120.00	140.00	15.00	120.00	+0.00 / -0.13	140.00	+0.25 / -0.00	16.00	+0.25 / -0.00	15.97
R125133100RC	125.00	+0.00 / -0.13	125.00	133.00	10.00	125.00	+0.00 / -0.13	133.00	+0.25 / -0.00	11.00	+0.25 / -0.00	36.61
R125133115RC*	125.00	+0.00 / -0.13	125.00	133.00	11.50	125.00	+0.00 / -0.13	133.00	+0.25 / -0.00	12.50	+0.25 / -0.00	39.74
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	44.53
R125145120RC	125.00	+0.00 / -0.13	125.00	145.00	12.00	125.00	+0.00 / -0.13	145.00	+0.25 / -0.00	13.00	+0.25 / -0.00	53.08
R125145145RC	125.00	+0.00 / -0.13	125.00	145.00	14.50	125.00	+0.00 / -0.13	145.00	+0.25 / -0.00	16.00	+0.25 / -0.00	45.88
R125145150RC*	125.00	+0.00 / -0.13	125.00	145.00	15.00	125.00	+0.00 / -0.13	145.00	+0.25 / -0.00	16.00	+0.25 / -0.00	15.97
R125150125RC*	125.00	+0.00 / -0.13	125.00	150.00	12.50	125.00	+0.00 / -0.13	150.00	+0.25 / -0.00	14.00	+0.25 / -0.00	53.08
R127140115RC*	127.00	+0.00 / -0.13	127.00	140.00	11.50	127.00	+0.00 / -0.13	140.00	+0.25 / -0.00	12.50	+0.25 / -0.00	47.72
R130138115RC*	130.00	+0.00 / -0.13	130.00	138.00	11.50	130.00	+0.00 / -0.13	138.00	+0.25 / -0.00	12.50	+0.25 / -0.00	51.45
R130140145RC	130.00	+0.00 / -0.13	130.00	140.00	14.50	130.00	+0.00 / -0.13	140.00	+0.25 / -0.00	16.00	+0.25 / -0.00	40.30
R130145090RC	130.00	+0.00 / -0.13	130.00	145.00	9.00	130.00	+0.00 / -0.13	145.00	+0.25 / -0.00	10.00	+0.25 / -0.00	24.38
R130145120RC*	130.00	+0.00 / -0.13	130.00	145.00	12.00	130.00	+0.00 / -0.13	145.00	+0.25 / -0.00	13.00	+0.25 / -0.00	77.65
R130145150RC*	130.00	+0.00 / -0.13	130.00	145.00	15.00	130.00	+0.00 / -0.13	145.00	+0.25 / -0.00	16.00	+0.25 / -0.00	49.93
R130150120RC*	130.00	+0.00 / -0.13	130.00	150.00	12.00	130.00	+0.00 / -0.13	150.00	+0.25 / -0.00	13.00	+0.25 / -0.00	55.64
R130150145RC	130.00	+0.00 / -0.13	130.00	150.00	14.50	130.00	+0.00 / -0.13	150.00	+0.25 / -0.00	16.00	+0.25 / -0.00	48.08
R130150150RC*	130.00	+0.00 / -0.13	130.00	150.00	15.00	130.00	+0.00 / -0.13	150.00	+0.25 / -0.00	16.00	+0.25 / -0.00	23.08
R132142085RC*	132.00	+0.00 / -0.13	132.00	142.00	8.50	132.00	+0.00 / -0.13	142.00	+0.25 / -0.00	9.50	+0.25 / -0.00	54.12
R132157132RC*	132.50	+0.00 / -0.13	132.50	157.50	13.20	132.50	+0.00 / -0.13	157.50	+0.25 / -0.00	14.50	+0.25 / -0.00	55.69
R135145120RC*	135.00	+0.00 / -0.13	135.00	145.00	12.00	135.00	+0.00 / -0.13	145.00	+0.25 / -0.00	13.00	+0.25 / -0.00	16.34
R135150115RC	135.00	+0.00 / -0.13	135.00	150.00	11.50	135.00	+0.00 / -0.13	150.00	+0.25 / -0.00	12.50	+0.25 / -0.00	52.78
R140148115RC*	140.00	+0.00 / -0.13	140.00	148.00	11.50	140.00	+0.00 / -0.13	148.00	+0.25 / -0.00	12.50	+0.25 / -0.00	44.13
R140150109RC	140.00	+0.00 / -0.13	140.00	150.00	10.90	140.00	+0.00 / -0.13	150.00	+0.25 / -0.00	12.00	+0.25 / -0.00	43.08
R140150115RC	140.00	+0.00 / -0.13	140.00	150.00	11.50	140.00	+0.00 / -0.13	150.00	+0.25 / -0.00	12.50	+0.25 / -0.00	49.12
R140155090RC*	140.00	+0.00 / -0.13	140.00	155.00	9.00	140.00	+0.00 / -0.13	155.00	+0.25 / -0.00	10.00	+0.25 / -0.00	51.11
R140160118RC	140.00	+0.00 / -0.13	140.00	160.00	11.80	140.00	+0.00 / -0.13	160.00	+0.25 / -0.00	13.00	+0.25 / -0.00	50.97
R140160145RC	140.00	+0.00 / -0.13	140.00	160.00	14.50	140.00	+0.00 / -0.13	160.00	+0.25 / -0.00	16.00	+0.25 / -0.00	50.97
R140160150RC*	140.00	+0.00 / -0.13	140.00	160.00	15.00	140.00	+0.00 / -0.13	160.00	+0.25 / -0.00	16.00	+0.25 / -0.00	23.95
R140170180RC*	140.00	+0.00 / -0.13	140.00	170.00	19.00	140.00	+0.00 / -0.13	170.00	+0.25 / -0.00	19.00	+0.25 / -0.00	37.18
R150165090RC	150.00	+0.00 / -0.13	150.00	165.00	9.00	150.00	+0.00 / -0.13	165.00	+0.25 / -0.00	10.00	+0.25 / -0.00	60.52
R150170120RC	150.00	+0.00 / -0.13	150.00	170.00	12.00	150.00	+0.00 / -0.13	170.00	+0.25 / -0.00	13.00	+0.25 / -0.00	63.41
R150170132RC*	150.00	+0.00 / -0.13	150.00	170.00	13.20	150.00	+0.00 / -0.13	170.00	+0.25 / -0.00	14.50	+0.25 / -0.00	55.87
R150170145RC	150.00	+0.00 / -0.13	150.00	170.00	14.50	150.00	+0.00 / -0.13	170.00	+0.25 / -0.00	16.00	+0.25 / -0.00	63.41
R150170150RC*	150.00	+0.00 / -0.13	150.00	170.00	15.00	150.00	+0.00 / -0.13	170.00	+0.25 / -0.00	16.00	+0.25 / -0.00	196.93
R150180180RC	150.00	+0.00 / -0.13	150.00	180.00	18.00	150.00	+0.00 / -0.13	180.00	+0.25 / -0.00	19.00	+0.25 / -0.00	30.44
R155163115RC*	155.00	+0.00 / -0.13	155.00	163.00	11.50	155.00	+0.00 / -0.13	163.00	+0.25 / -0.00	12.50	+0.25 / -0.00	54.89
R155170145RC	155.00	+0.00 / -0.13	155.00	170.00	14.50	155.00	+0.00 / -0.13	170.00	+0.25 / -0.00	16.00	+0.25 / -0.00	59.76
R160170115RC	160.00	+0.00 / -0.13	160.00	170.00	11.50	160.00	+0.00 / -0.13	170.00	+0.25 / -0.00	12.50	+0.25 / -0.00	51.41
R160175090RC	160.00	+0.00 / -0.13	160.00	175.00	9.00	160.00	+0.00 / -0.13	175.00	+0.25 / -0.00	10.00	+0.25 / -0.00	64.81
R160175109RC*	160.00	+0.00 / -0.13	160.00	175.00	10.90	160.00	+0.00 / -0.13	175.00	+0.25 / -0.00	12.00	+0.25 / -0.00	64.81
R160180120RC	160.00	+0.00 / -0.13	160.00	180.00	12.00	160.00	+0.00 / -0.13	180.00	+0.25 / -0.00	13.00	+0.25 / -0.00	68.01
R160180145RC	160.00	+0.00 / -0.13	160.00	180.00	14.50	160.00	+0.00 / -0.13	180.00	+0.25 / -0.00	16.00	+0.25 / -0.00	58.83
R160180150RC*	160.00	+0.00 / -0.13	160.00	180.00	15.00	160.00	+0.00 / -0.13	180.00	+0.25 / -0.00	16.00	+0.25 / -0.00	39.05
R160185150RC	160.00	+0.00 / -0.13	160.00	185.00	15.00	160.00	+0.00 / -0.13	185.00	+0.25 / -0.00	16.00	+0.25 / -0.00	34.06
R160185182RC	160.00	+0.00 / -0.13	160.00	185.00	18.20	160.00	+0.00 / -0.13	185.00	+0.25 / -0.00	20.00	+0.25 / -0.00	121.59
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	29.32
R165184130RC*	165.00	+0.00 / -0.13	165.00	184.00	13.00	165.00	+0.00 / -0.13	184.00	+0.29 / -0.00	14.00	+0.25 / -0.00	68.03

*** : 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.	
R170178115RC*	170.00	+0.00 / -0.13	170.00	178.00	11.50	170.00	+0.00 / -0.13	178.00	+0.29 / -0.00	12.50	+0.25 / -0.00	39.39
R170190145RC*	170.00	+0.00 / -0.13	170.00	190.00	14.50	170.00	+0.00 / -0.13	190.00	+0.29 / -0.00	16.00	+0.25 / -0.00	71.81
R170200180RC*	170.00	+0.00 / -0.13	170.00	200.00	18.00	170.00	+0.00 / -0.13	200.00	+0.29 / -0.00	19.00	+0.25 / -0.00	98.07
R180195115RC*	180.00	+0.00 / -0.13	180.00	195.00	11.50	180.00	+0.00 / -0.13	195.00	+0.29 / -0.00	12.50	+0.25 / -0.00	61.92
R180200118RC	180.00	+0.00 / -0.13	180.00	200.00	11.80	180.00	+0.00 / -0.13	200.00	+0.29 / -0.00	13.00	+0.25 / -0.00	73.76
R180200150RC	180.00	+0.00 / -0.13	180.00	200.00	15.00	180.00	+0.00 / -0.13	200.00	+0.29 / -0.00	16.00	+0.25 / -0.00	38.55
R180210180RC*	180.00	+0.00 / -0.13	180.00	210.00	18.00	180.00	+0.00 / -0.13	210.00	+0.29 / -0.00	19.00	+0.25 / -0.00	70.39
R185195120RC*	185.00	+0.00 / -0.13	185.00	195.00	12.00	185.00	+0.00 / -0.13	195.00	+0.29 / -0.00	13.00	+0.25 / -0.00	34.06
R185200109RC*	185.00	+0.00 / -0.13	185.00	200.00	10.90	185.00	+0.00 / -0.13	200.00	+0.29 / -0.00	12.00	+0.25 / -0.00	73.76
R190210150RC*	190.00	+0.00 / -0.13	190.00	210.00	15.00	190.00	+0.00 / -0.13	210.00	+0.29 / -0.00	16.00	+0.25 / -0.00	44.42
R200220120RC*	200.00	+0.00 / -0.13	200.00	220.00	12.00	200.00	+0.00 / -0.13	220.00	+0.29 / -0.00	13.00	+0.25 / -0.00	80.19
R200220145RC	200.00	+0.00 / -0.13	200.00	220.00	14.50	200.00	+0.00 / -0.13	220.00	+0.29 / -0.00	16.00	+0.25 / -0.00	80.19
R200225182RC*	200.00	+0.00 / -0.13	200.00	225.00	18.20	200.00	+0.00 / -0.13	225.00	+0.29 / -0.00	20.00	+0.25 / -0.00	113.38
R205220125RC*	205.00	+0.00 / -0.13	205.00	220.00	12.50	205.00	+0.00 / -0.13	220.00	+0.29 / -0.00	13.50	+0.25 / -0.00	84.72
R220240145RC*	220.00	+0.00 / -0.13	220.00	240.00	14.50	220.00	+0.00 / -0.13	240.00	+0.29 / -0.00	16.00	+0.25 / -0.00	87.75
R220250180RC*	220.00	+0.00 / -0.13	220.00	250.00	18.00	220.00	+0.00 / -0.13	250.00	+0.29 / -0.00	20.00	+0.25 / -0.00	81.47
R220250227RC*	220.00	+0.00 / -0.13	220.00	250.00	22.70	220.00	+0.00 / -0.13	250.00	+0.29 / -0.00	25.00	+0.25 / -0.00	138.27
R230260180RC*	230.00	+0.00 / -0.13	230.00	260.00	18.00	230.00	+0.00 / -0.13	260.00	+0.32 / -0.00	20.00	+0.25 / -0.00	82.22
R230260227RC*	230.00	+0.00 / -0.13	230.00	260.00	22.70	230.00	+0.00 / -0.13	260.00	+0.32 / -0.00	25.00	+0.25 / -0.00	205.96
R280310180RC*	280.00	+0.00 / -0.13	280.00	310.00	18.00	280.00	+0.00 / -0.13	310.00	+0.32 / -0.00	20.00	+0.25 / -0.00	86.71
R330350180RC*	330.00	+0.00 / -0.13	330.00	350.00	18.00	330.00	+0.00 / -0.13	350.00	+0.32 / -0.00	20.00	+0.25 / -0.00	338.07

RC/3L - Rod Seals

Polyurethane AU 92A



Temperature: -50/230F [-45/110C] **Pressure: 3500 PSI [250 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R012019050RC/3L*	12.00	-0.016 / -0.059	12.00	19.00	5.00	12.00	-0.016 / -0.059	19.00	+0.070 / -0.070	5.60	+0.250 / -0.000	8.77
R014021050RC/3L*	14.00	-0.016 / -0.059	14.00	21.00	5.00	14.00	-0.016 / -0.059	21.00	+0.070 / -0.070	5.60	+0.250 / -0.000	8.77
R018025050RC/3L*	18.00	-0.016 / -0.059	18.00	25.00	5.00	18.00	-0.016 / -0.059	25.00	+0.070 / -0.070	5.60	+0.250 / -0.000	8.88
R022029050RC/3L	22.00	-0.020 / -0.072	22.00	29.00	5.00	22.00	-0.020 / -0.072	29.00	+0.070 / -0.070	5.60	+0.250 / -0.000	8.88
R028036057RC/3L	28.00	-0.020 / -0.072	28.00	36.00	5.70	28.00	-0.020 / -0.072	36.00	+0.080 / -0.080	6.30	+0.250 / -0.000	8.96
R036044057RC/3L	36.00	-0.025 / -0.087	36.00	44.00	5.70	36.00	-0.025 / -0.087	44.00	+0.080 / -0.080	6.30	+0.250 / -0.000	8.96
R045053057RC/3L*	45.00	-0.025 / -0.087	45.00	53.00	5.70	45.00	-0.025 / -0.087	53.00	+0.010 / -0.010	6.30	+0.250 / -0.000	9.07
R056066065RC/3L*	56.00	-0.030 / -0.104	56.00	66.00	6.50	56.00	-0.030 / -0.104	66.00	+0.010 / -0.010	7.50	+0.250 / -0.000	9.34
R070080065RC/3L*	70.00	-0.030 / -0.104	70.00	80.00	6.50	70.00	-0.030 / -0.104	80.00	+0.010 / -0.010	7.50	+0.250 / -0.000	11.90

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

RC/3L SERIES - AU 92A

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R090100065RC/3L*	90.00	-0.036 / -0.123	90.00	100.00	6.50	90.00	-0.036 / -0.123	100.00	+0.011 / -0.011	7.50	+0.250 / -0.000	14.17
R110125096RC/3L*	110.00	-0.036 / -0.123	110.00	125.00	9.60	110.00	-0.036 / -0.123	125.00	+0.013 / -0.013	10.60	+0.250 / -0.000	22.00
R140155096RC/3L*	140.00	-0.043 / -0.143	140.00	155.00	9.60	140.00	-0.043 / -0.143	155.00	+0.013 / -0.013	10.60	+0.250 / -0.000	26.92

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

Rod seals

Hallite

621

TECHNICAL DETAILS

METRIC ○——○ INCH

OPERATING CONDITIONS

MAXIMUM SPEED	1.0 m/sec	3.0 ft/sec
TEMPERATURE RANGE	-45°C + 110°C	-50°F + 230°F
MAXIMUM PRESSURE	700 bar	10,000 p.s.i.

MAXIMUM EXTRUSION GAP

Figures show the maximum permissible gap all on one side using minimum rod Ø and maximum clearance Ø.

PRESSURE bar	160	250	400	500	700
MAXIMUM GAP mm	1.0	0.8	0.6	0.4	0.25
PRESSURE p.s.i.	2400	3750	6000	7500	10,000
MAXIMUM GAP in	0.040	0.032	0.024	0.016	0.010

SURFACE ROUGHNESS

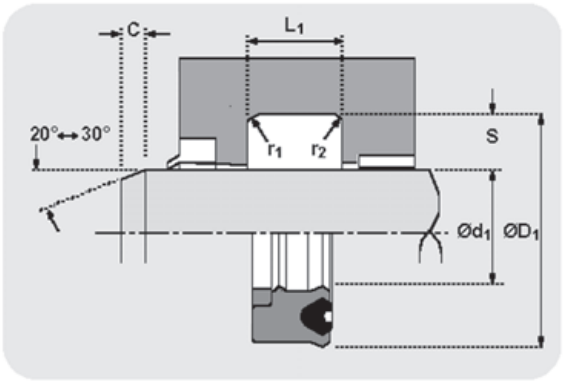
	µmRa	µmRt	µinCLA	µinRMS
DYNAMIC SEALING FACE $Ød_1$	0.1 0.4	4 max	4 16	5 18
STATIC SEALING FACE $ØD_1$	1.6 max	10 max	63 max	70 max
STATIC HOUSING FACES L_1	3.2 max	16 max	125 max	140 max

CHAMFERS & RADII

GROOVE SECTION S mm	4.0	5.0	7.5	10.0	12.5	15.0
MIN CHAMFER C mm	3.0	3.5	5.0	6.5	7.0	8.0
MAX FILLET RAD r_1 mm	0.2	0.4	0.8	0.8	1.2	1.6
MAX FILLET RAD r_2 mm	0.4	0.8	1.2	1.2	1.6	2.4
GROOVE SECTION S in	0.125	0.187	0.250	0.312	0.375	0.500
MIN CHAMFER C in	0.093	0.093	0.125	0.156	0.187	0.217
MAX FILLET RAD r_1 in	0.008	0.008	0.016	0.016	0.032	0.032
MAX FILLET RAD r_2 in	0.016	0.016	0.032	0.032	0.047	0.047

TOLERANCES

$Ød_1$	$ØD_1$	L_1 mm	L_1 in
f9	Js11	+0.25 -0	+0.010 -0



DESIGN

The Hallite 621 is a top of the range high pressure rod seal. The design of the seal incorporates a unique profiled NBR energiser to ensure complete lip actuation under all pressure conditions and to cushion the seal against shock loadings.

The shell is moulded in Hallite's high performance polyurethane Hythane 181, ensuring flexibility for installation and performance at low temperatures.
The Hallite 621 also benefits from Hallite's twin lip profile for dry rod sealing.

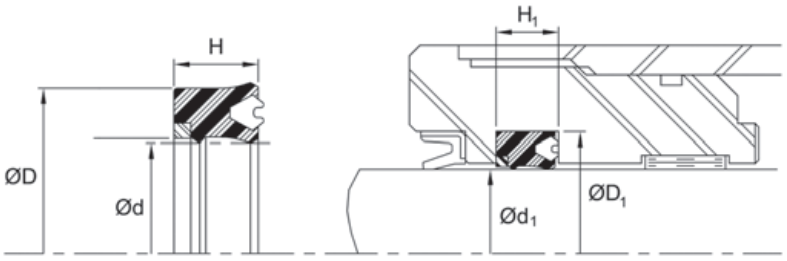
FEATURES

- HIGH PRESSURE/SHOCK LOAD CAPABILITY
- TWIN LIP DESIGN OFFERING:
  LOWER FRICTION
  IMPROVED SEALING
  PRIMARY LIP PROTECTION
  INCREASED SEAL STABILITY
- POLYACETAL ANTI-EXTRUSION RING.

M

RE - Rod Seals

Polyurethane/Polyacetal/Nitrile



Temperature: -50/230F [-46/110C] **Pressure: 7500 PSI [517 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	17.45
R035050095RE*	35.00	+0.00 / -0.04	35.00	50.00	9.50	35.00	+0.00 / -0.04	50.00	+0.10 / -0.00	10.50	+0.30 / -0.00	32.76
R036046073RE	36.00	+0.00 / -0.04	36.00	46.00	7.30	36.00	+0.00 / -0.04	46.00	+0.10 / -0.00	8.00	+0.30 / -0.00	32.76
R040050073RE	40.00	+0.00 / -0.04	40.00	50.00	7.30	40.00	+0.00 / -0.04	50.00	+0.10 / -0.00	8.00	+0.30 / -0.00	34.88
R040050100RE*	40.00	+0.00 / -0.04	40.00	50.00	10.00	40.00	+0.00 / -0.04	50.00	+0.10 / -0.00	11.00	+0.30 / -0.00	36.87
R045055073RE	45.00	+0.00 / -0.04	45.00	55.00	7.30	45.00	+0.00 / -0.04	55.00	+0.12 / -0.00	8.00	+0.30 / -0.00	37.79
R045060114RE	45.00	+0.00 / -0.04	45.00	60.00	11.40	45.00	+0.00 / -0.04	60.00	+0.12 / -0.00	12.50	+0.30 / -0.00	38.80
R050060073RE	50.00	+0.00 / -0.04	50.00	60.00	7.30	50.00	+0.00 / -0.04	60.00	+0.12 / -0.00	8.00	+0.30 / -0.00	40.61
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	41.04
R050065100RE*	50.00	+0.00 / -0.04	50.00	65.00	10.00	50.00	+0.00 / -0.04	65.00	+0.12 / -0.00	11.00	+0.30 / -0.00	41.41
R050065114RE	50.00	+0.00 / -0.04	50.00	65.00	11.40	50.00	+0.00 / -0.04	65.00	+0.12 / -0.00	12.50	+0.30 / -0.00	41.80
R055070090RE*	55.00	+0.00 / -0.04	55.00	70.00	9.00	55.00	+0.00 / -0.04	70.00	+0.12 / -0.00	10.00	+0.30 / -0.00	42.35
R055070114RE	55.00	+0.00 / -0.04	55.00	70.00	11.40	55.00	+0.00 / -0.04	70.00	+0.12 / -0.00	12.50	+0.30 / -0.00	43.24
R056071114RE	56.00	+0.00 / -0.04	56.00	71.00	11.40	56.00	+0.00 / -0.04	71.00	+0.12 / -0.00	12.50	+0.30 / -0.00	43.84
R060073130RE	60.00	+0.00 / -0.04	60.00	73.00	13.00	60.00	+0.00 / -0.04	73.00	+0.12 / -0.00	14.00	+0.30 / -0.00	38.80
R060075114RE	60.00	+0.00 / -0.04	60.00	75.00	11.40	60.00	+0.00 / -0.04	75.00	+0.12 / -0.00	12.50	+0.30 / -0.00	46.15
R063078114RE	63.00	+0.00 / -0.04	63.00	78.00	11.40	63.00	+0.00 / -0.04	78.00	+0.12 / -0.00	12.50	+0.30 / -0.00	47.84
R063083118RE	63.00	+0.00 / -0.04	63.00	83.00	11.80	63.00	+0.00 / -0.04	83.00	+0.14 / -0.00	13.00	+0.30 / -0.00	48.96
R065075100RE*	65.00	+0.00 / -0.04	65.00	75.00	10.00	65.00	+0.00 / -0.04	75.00	+0.14 / -0.00	11.00	+0.30 / -0.00	49.78
R065080100RE*	65.00	+0.00 / -0.04	65.00	80.00	10.00	65.00	+0.00 / -0.04	80.00	+0.14 / -0.00	11.00	+0.30 / -0.00	50.03
R065080114RE*	65.00	+0.00 / -0.04	65.00	80.00	11.40	65.00	+0.00 / -0.04	80.00	+0.14 / -0.00	12.50	+0.30 / -0.00	51.29
R065080130RE*	65.00	+0.00 / -0.04	65.00	80.00	13.00	65.00	+0.00 / -0.04	80.00	+0.14 / -0.00	14.00	+0.30 / -0.00	52.56
R070083130RE	70.00	+0.00 / -0.04	70.00	83.00	13.00	70.00	+0.00 / -0.04	83.00	+0.14 / -0.00	14.00	+0.30 / -0.00	53.61
R070085114RE	70.00	+0.00 / -0.04	70.00	85.00	11.40	70.00	+0.00 / -0.04	85.00	+0.14 / -0.00	12.50	+0.30 / -0.00	51.94
R075088130RE	75.00	+0.00 / -0.04	75.00	88.00	13.00	75.00	+0.00 / -0.04	88.00	+0.14 / -0.00	14.00	+0.30 / -0.00	42.44
R075090120RE*	75.00	+0.00 / -0.04	75.00	90.00	12.00	75.00	+0.00 / -0.04	90.00	+0.14 / -0.00	13.00	+0.30 / -0.00	48.20
R075090130RE*	75.00	+0.00 / -0.04	75.00	90.00	13.00	75.00	+0.00 / -0.04	90.00	+0.14 / -0.00	14.00	+0.30 / -0.00	48.20
R075095114RE*	75.00	+0.00 / -0.04	75.00	95.00	11.40	75.00	+0.00 / -0.04	95.00	+0.14 / -0.00	12.50	+0.30 / -0.00	56.60
R075095146RE*	75.00	+0.00 / -0.04	75.00	95.00	14.60	75.00	+0.00 / -0.04	95.00	+0.14 / -0.00	16.00	+0.30 / -0.00	58.35
R080093130RE*	80.00	+0.00 / -0.04	80.00	93.00	13.00	80.00	+0.00 / -0.04	93.00	+0.14 / -0.00	14.00	+0.30 / -0.00	58.35
R080095114RE	80.00	+0.00 / -0.04	80.00	95.00	11.40	80.00	+0.00 / -0.04	95.00	+0.14 / -0.00	12.50	+0.30 / -0.00	57.42
R080095130RE	80.00	+0.00 / -0.04	80.00	95.00	13.00	80.00	+0.00 / -0.04	95.00	+0.14 / -0.00	14.00	+0.30 / -0.00	62.07
R085100118RE*	85.00	+0.00 / -0.04	85.00	100.00	11.80	85.00	+0.00 / -0.04	100.00	+0.14 / -0.00	13.00	+0.30 / -0.00	46.32
R085100130RE	85.00	+0.00 / -0.04	85.00	100.00	13.00	85.00	+0.00 / -0.04	100.00	+0.14 / -0.00	14.00	+0.30 / -0.00	46.99
R085105146RE*	85.00	+0.00 / -0.04	85.00	105.00	14.60	85.00	+0.00 / -0.04	105.00	+0.14 / -0.00	16.00	+0.30 / -0.00	59.20
R090105114RE	90.00	+0.00 / -0.04	90.00	105.00	11.40	90.00	+0.00 / -0.04	105.00	+0.14 / -0.00	12.50	+0.30 / -0.00	62.86
R090105130RE	90.00	+0.00 / -0.04	90.00	105.00	13.00	90.00	+0.00 / -0.04	105.00	+0.14 / -0.00	14.00	+0.30 / -0.00	50.57
R090110146RE*	90.00	+0.00 / -0.04	90.00	110.00	14.60	90.00	+0.00 / -0.04	110.00	+0.14 / -0.00	16.00	+0.30 / -0.00	61.65

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

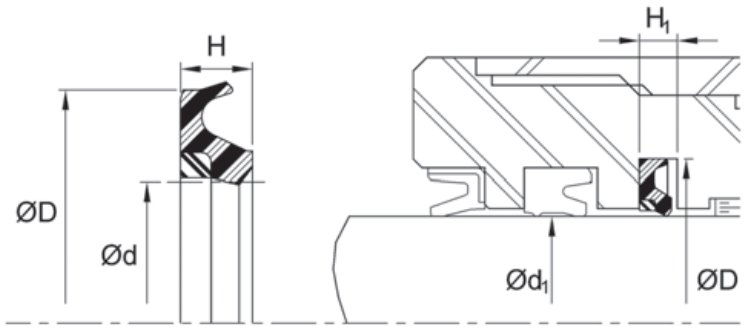
RE SERIES - AU/POM/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R095110120RE*	95.00	+0.00 / -0.04	95.00	110.00	12.00	95.00	+0.00 / -0.04	110.00	+0.14 / -0.00	13.00	+0.30 / -0.00	65.85
R095110130RE	95.00	+0.00 / -0.04	95.00	110.00	13.00	95.00	+0.00 / -0.04	110.00	+0.14 / -0.00	14.00	+0.30 / -0.00	51.67
R095115146RE*	95.00	+0.00 / -0.04	95.00	115.00	14.60	95.00	+0.00 / -0.04	115.00	+0.14 / -0.00	16.00	+0.30 / -0.00	62.05
R100115130RE	100.00	+0.00 / -0.04	100.00	115.00	13.00	100.00	+0.00 / -0.04	115.00	+0.14 / -0.00	14.00	+0.30 / -0.00	53.04
R100120146RE	100.00	+0.00 / -0.04	100.00	120.00	14.60	100.00	+0.00 / -0.04	120.00	+0.14 / -0.00	16.00	+0.30 / -0.00	68.64
R105120120RE*	105.00	+0.00 / -0.04	105.00	120.00	12.00	105.00	+0.00 / -0.04	120.00	+0.14 / -0.00	13.00	+0.30 / -0.00	66.27
R105120130RE*	105.00	+0.00 / -0.04	105.00	120.00	13.00	105.00	+0.00 / -0.04	120.00	+0.14 / -0.00	14.00	+0.30 / -0.00	67.89
R105125146RE*	105.00	+0.00 / -0.04	105.00	125.00	14.60	105.00	+0.00 / -0.04	125.00	+0.14 / -0.00	16.00	+0.30 / -0.00	69.70
R110125130RE*	110.00	+0.00 / -0.04	110.00	125.00	13.00	110.00	+0.00 / -0.04	125.00	+0.14 / -0.00	14.00	+0.30 / -0.00	71.51
R110130130RE	110.00	+0.00 / -0.04	110.00	130.00	13.00	110.00	+0.00 / -0.04	130.00	+0.14 / -0.00	14.00	+0.30 / -0.00	72.94
R110130146RE	110.00	+0.00 / -0.04	110.00	130.00	14.60	110.00	+0.00 / -0.04	130.00	+0.16 / -0.00	16.00	+0.30 / -0.00	74.12
R115135146RE	115.00	+0.00 / -0.04	115.00	135.00	14.60	115.00	+0.00 / -0.04	135.00	+0.16 / -0.00	16.00	+0.30 / -0.00	78.25
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	79.81
R120140130RE	120.00	+0.00 / -0.04	120.00	140.00	13.00	120.00	+0.00 / -0.04	140.00	+0.16 / -0.00	14.00	+0.30 / -0.00	58.49
R120140146RE*	120.00	+0.00 / -0.04	120.00	140.00	14.60	120.00	+0.00 / -0.04	140.00	+0.16 / -0.00	16.00	+0.30 / -0.00	60.79
R125145146RE	125.00	+0.00 / -0.04	125.00	145.00	14.60	125.00	+0.00 / -0.04	145.00	+0.16 / -0.00	16.00	+0.30 / -0.00	92.70
R130145130RE*	130.00	+0.00 / -0.04	130.00	145.00	13.00	130.00	+0.00 / -0.04	145.00	+0.16 / -0.00	14.00	+0.30 / -0.00	80.72
R130150146RE	130.00	+0.00 / -0.04	130.00	150.00	14.60	130.00	+0.00 / -0.04	150.00	+0.16 / -0.00	16.00	+0.30 / -0.00	93.71
R140155130RE*	140.00	+0.00 / -0.04	140.00	155.00	13.00	140.00	+0.00 / -0.04	155.00	+0.16 / -0.00	14.00	+0.30 / -0.00	84.68
R140160130RE	140.00	+0.00 / -0.04	140.00	160.00	13.00	140.00	+0.00 / -0.04	160.00	+0.16 / -0.00	14.00	+0.30 / -0.00	65.31
R140160146RE	140.00	+0.00 / -0.04	140.00	160.00	14.60	140.00	+0.00 / -0.04	160.00	+0.16 / -0.00	16.00	+0.30 / -0.00	89.56
R150170146RE*	150.00	+0.00 / -0.04	150.00	170.00	14.60	150.00	+0.00 / -0.04	170.00	+0.16 / -0.00	16.00	+0.30 / -0.00	69.64
R160180146RE	160.00	+0.00 / -0.04	160.00	180.00	14.60	160.00	+0.00 / -0.04	180.00	+0.16 / -0.00	16.00	+0.30 / -0.00	70.93
R160185146RE*	160.00	+0.00 / -0.04	160.00	185.00	14.60	160.00	+0.00 / -0.04	185.00	+0.16 / -0.00	16.00	+0.30 / -0.00	104.19
R180200146RE	180.00	+0.00 / -0.04	180.00	200.00	14.60	180.00	+0.00 / -0.04	200.00	+0.16 / -0.00	16.00	+0.30 / -0.00	118.44
R200220146RE	200.00	+0.00 / -0.04	200.00	220.00	14.60	200.00	+0.00 / -0.04	220.00	+0.16 / -0.00	16.00	+0.30 / -0.00	133.76
R215235146RE*	215.00	+0.00 / -0.04	215.00	235.00	14.60	215.00	+0.00 / -0.04	235.00	+0.16 / -0.00	16.00	+0.30 / -0.00	140.79

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

RH - Buffer Seals

Polyurethane AU 94A/Polyacetal



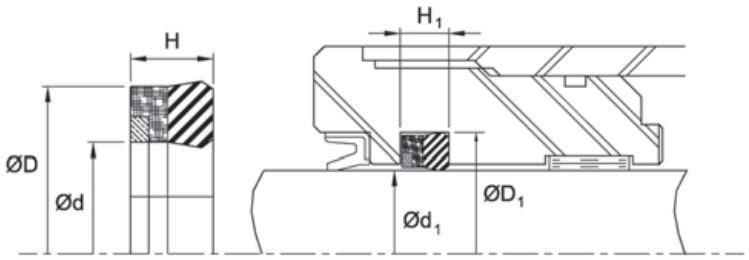
Temperature: -31/212F [-35/100C] **Pressure: 5800 PSI [584 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R035051060RH*	35.50	+0.00 / -0.05	35.50	51.00	6.00	35.50	+0.00 / -0.05	50.00	+0.20 / -0.00	6.30	+0.20 / -0.00	17.65
R036047042RH	36.00	+0.00 / -0.05	36.00	47.00	3.90	36.00	+0.00 / -0.05	47.00	+0.20 / -0.00	4.20	+0.20 / -0.00	7.00
R040055060RH	40.00	+0.00 / -0.05	40.00	55.50	6.00	40.00	+0.00 / -0.05	55.50	+0.20 / -0.00	6.30	+0.20 / -0.00	8.59
R045060060RH	45.00	+0.00 / -0.05	45.00	60.50	6.00	45.00	+0.00 / -0.05	60.50	+0.20 / -0.00	6.30	+0.20 / -0.00	9.13
R050065060RH	50.00	+0.00 / -0.05	50.00	65.50	6.00	50.00	+0.00 / -0.05	65.50	+0.20 / -0.00	6.30	+0.20 / -0.00	17.54
R055070060RH	55.00	+0.00 / -0.05	55.00	70.50	6.00	55.00	+0.00 / -0.05	70.50	+0.20 / -0.00	6.30	+0.20 / -0.00	17.63
R056071060RH	56.00	+0.00 / -0.05	56.00	71.50	6.00	55.00	+0.00 / -0.05	71.50	+0.20 / -0.00	6.30	+0.20 / -0.00	30.31
R060075060RH	60.00	+0.00 / -0.05	60.00	75.50	6.00	60.00	+0.00 / -0.05	75.50	+0.20 / -0.00	6.30	+0.20 / -0.00	25.06
R063078060RH	63.00	+0.00 / -0.05	63.00	78.50	6.00	63.00	+0.00 / -0.05	78.50	+0.20 / -0.00	6.30	+0.20 / -0.00	19.61
R065080060RH	65.00	+0.00 / -0.06	65.00	80.50	6.00	65.00	+0.00 / -0.06	80.50	+0.20 / -0.00	6.30	+0.20 / -0.00	29.79
R070085060RH	70.00	+0.00 / -0.06	70.00	85.50	6.00	70.00	+0.00 / -0.06	85.50	+0.20 / -0.00	6.30	+0.20 / -0.00	32.51
R075090060RH	75.00	+0.00 / -0.06	75.00	90.50	6.00	75.00	+0.00 / -0.06	90.50	+0.20 / -0.00	6.30	+0.20 / -0.00	34.56
R080095060RH	80.00	+0.00 / -0.09	80.00	95.50	6.00	80.00	+0.00 / -0.09	95.50	+0.20 / -0.00	6.30	+0.20 / -0.00	36.60
R085100060RH	85.00	+0.00 / -0.09	85.00	100.50	6.00	85.00	+0.00 / -0.09	100.50	+0.20 / -0.00	6.30	+0.20 / -0.00	39.28
R090105060RH	90.00	+0.00 / -0.09	90.00	105.50	6.00	90.00	+0.00 / -0.09	105.50	+0.20 / -0.00	6.30	+0.20 / -0.00	47.41
R095110060RH	95.00	+0.00 / -0.09	95.00	110.50	6.00	95.00	+0.00 / -0.09	110.50	+0.20 / -0.00	6.30	+0.20 / -0.00	50.05
R100115060RH	100.00	+0.00 / -0.09	100.00	115.50	6.00	100.00	+0.00 / -0.09	115.50	+0.20 / -0.00	6.30	+0.20 / -0.00	51.50
R105120060RH	105.00	+0.00 / -0.13	105.00	120.50	6.00	105.00	+0.00 / -0.13	120.50	+0.20 / -0.00	6.30	+0.20 / -0.00	53.37
R110125060RH	110.00	+0.00 / -0.13	110.00	125.50	6.00	110.00	+0.00 / -0.13	125.50	+0.20 / -0.00	6.30	+0.20 / -0.00	55.56
R115130060RH	115.00	+0.00 / -0.13	115.00	130.50	6.00	115.00	+0.00 / -0.13	130.50	+0.20 / -0.00	6.30	+0.20 / -0.00	30.64
R120135060RH	120.00	+0.00 / -0.13	120.00	135.50	6.00	120.00	+0.00 / -0.13	135.50	+0.20 / -0.00	6.30	+0.20 / -0.00	60.31
R125140060RH	125.00	+0.00 / -0.13	125.00	140.50	6.00	125.00	+0.00 / -0.13	140.50	+0.20 / -0.00	6.30	+0.20 / -0.00	30.28
R130145060RH	130.00	+0.00 / -0.13	130.00	145.50	6.00	130.00	+0.00 / -0.13	145.50	+0.20 / -0.00	6.30	+0.20 / -0.00	93.63
R132147060RH*	132.00	+0.00 / -0.13	132.00	147.50	6.00	132.00	+0.00 / -0.13	147.50	+0.20 / -0.00	6.30	+0.20 / -0.00	112.28
R135150060RH*	135.00	+0.00 / -0.13	135.00	150.50	6.00	135.00	+0.00 / -0.13	150.50	+0.20 / -0.00	6.30	+0.20 / -0.00	112.98
R140155060RH	140.00	+0.00 / -0.13	140.00	155.50	6.00	140.00	+0.00 / -0.13	155.50	+0.20 / -0.00	6.30	+0.20 / -0.00	152.44
R145160060RH*	145.00	+0.00 / -0.13	145.00	160.50	6.00	145.00	+0.00 / -0.13	160.50	+0.20 / -0.00	6.30	+0.20 / -0.00	113.17
R150165060RH	150.00	+0.00 / -0.13	150.00	165.50	6.00	150.00	+0.00 / -0.13	165.50	+0.20 / -0.00	6.30	+0.20 / -0.00	99.93
R155170060RH*	155.00	+0.00 / -0.13	155.00	170.50	6.00	155.00	+0.00 / -0.13	170.50	+0.20 / -0.00	6.30	+0.20 / -0.00	102.34
R160175060RH	160.00	+0.00 / -0.13	160.00	175.50	6.00	160.00	+0.00 / -0.13	175.50	+0.20 / -0.00	6.30	+0.20 / -0.00	153.23
R165180060RH*	165.00	+0.00 / -0.13	165.00	180.50	6.00	160.00	+0.00 / -0.13	180.50	+0.20 / -0.00	6.30	+0.20 / -0.00	163.10
R170185060RH	170.00	+0.00 / -0.13	170.00	185.50	6.00	170.00	+0.00 / -0.13	185.50	+0.20 / -0.00	6.30	+0.20 / -0.00	216.05
R180195060RH	180.00	+0.00 / -0.13	180.00	195.50	6.00	180.00	+0.00 / -0.13	195.50	+0.20 / -0.00	6.30	+0.20 / -0.00	301.53
R190205060RH*	190.00	+0.00 / -0.13	190.00	205.50	6.00	190.00	+0.00 / -0.13	205.50	+0.20 / -0.00	6.30	+0.20 / -0.00	170.02
R200220081RH	200.00	+0.00 / -0.13	200.00	220.50	7.70	200.00	+0.00 / -0.13	220.50	+0.20 / -0.00	8.10	+0.20 / -0.00	287.33
R210225081RH*	210.00	+0.00 / -0.13	210.00	225.50	7.70	210.00	+0.00 / -0.13	225.50	+0.20 / -0.00	8.10	+0.20 / -0.00	302.20

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

RR - Rod Seals

NBR/Fabric/POM



Temperature: -22/105F [-30/105C] **Pressure: 5800 PSI [400 Bar]**

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	6.35
R015027067RR*	15.00	+0.00 / -0.04	15.00	27.00	6.70	15.00	+0.00 / -0.04	27.00	+0.04 / -0.00	7.00	+0.25 / -0.00	7.49
R016024067RR*	16.00	+0.00 / -0.04	16.00	24.00	6.70	16.00	+0.00 / -0.04	24.00	+0.04 / -0.00	7.00	+0.25 / -0.00	3.81
R016028072RR*	16.00	+0.00 / -0.04	16.00	28.00	7.20	16.00	+0.00 / -0.04	28.00	+0.04 / -0.00	7.50	+0.25 / -0.00	7.49
R018026061RR*	18.00	+0.00 / -0.04	18.00	26.00	6.10	18.00	+0.00 / -0.04	26.00	+0.04 / -0.00	6.40	+0.25 / -0.00	7.49
R018028060RR*	18.00	+0.00 / -0.04	18.00	28.00	6.00	18.00	+0.00 / -0.04	28.00	+0.04 / -0.00	6.30	+0.25 / -0.00	7.75
R018030072RR*	18.00	+0.00 / -0.04	18.00	30.00	7.20	18.00	+0.00 / -0.04	30.00	+0.04 / -0.00	7.50	+0.25 / -0.00	8.13
R020027057RR*	20.00	+0.00 / -0.04	20.00	27.00	5.70	20.00	+0.00 / -0.04	27.00	+0.05 / -0.00	6.00	+0.25 / -0.00	7.88
R020028060RR*	20.00	+0.00 / -0.04	20.00	28.00	6.00	20.00	+0.00 / -0.04	28.00	+0.05 / -0.00	6.30	+0.25 / -0.00	7.88
R020028067RR*	20.00	+0.00 / -0.04	20.00	28.00	6.70	20.00	+0.00 / -0.04	28.00	+0.05 / -0.00	7.00	+0.25 / -0.00	8.26
R020030077RR*	20.00	+0.00 / -0.04	20.00	30.00	7.70	20.00	+0.00 / -0.04	30.00	+0.05 / -0.00	8.00	+0.25 / -0.00	7.88
R020030082RR*	20.00	+0.00 / -0.04	20.00	30.00	8.20	20.00	+0.00 / -0.04	30.00	+0.05 / -0.00	8.50	+0.25 / -0.00	7.88
R022029047RR*	22.00	+0.00 / -0.04	22.00	29.00	4.70	22.00	+0.00 / -0.04	29.00	+0.05 / -0.00	5.00	+0.25 / -0.00	7.88
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	8.26
R022032072RR*	22.00	+0.00 / -0.04	22.00	32.00	7.20	22.00	+0.00 / -0.04	32.00	+0.05 / -0.00	7.50	+0.25 / -0.00	8.51
R022032097RR*	22.00	+0.00 / -0.04	22.00	32.00	9.70	22.00	+0.00 / -0.04	32.00	+0.05 / -0.00	10.00	+0.25 / -0.00	8.51
R022034092RR*	22.00	+0.00 / -0.04	22.00	34.00	9.20	22.00	+0.00 / -0.04	34.00	+0.05 / -0.00	9.50	+0.25 / -0.00	8.89
R022035097RR*	22.00	+0.00 / -0.04	22.00	35.00	9.70	22.00	+0.00 / -0.04	35.00	+0.05 / -0.00	10.00	+0.25 / -0.00	8.89
R025033057RR*	25.00	+0.00 / -0.04	25.00	33.00	5.70	25.00	+0.00 / -0.04	33.00	+0.05 / -0.00	6.00	+0.25 / -0.00	7.88
R025033061RR*	25.00	+0.00 / -0.04	25.00	33.00	6.10	25.00	+0.00 / -0.04	33.00	+0.05 / -0.00	6.40	+0.25 / -0.00	7.88
R025033067RR*	25.00	+0.00 / -0.04	25.00	33.00	6.70	25.00	+0.00 / -0.04	33.00	+0.05 / -0.00	7.00	+0.25 / -0.00	8.00
R025035077RR*	25.00	+0.00 / -0.04	25.00	35.00	7.70	25.00	+0.00 / -0.04	35.00	+0.05 / -0.00	8.00	+0.25 / -0.00	8.64
R025035087RR*	25.00	+0.00 / -0.04	25.00	35.00	8.70	25.00	+0.00 / -0.04	35.00	+0.05 / -0.00	9.00	+0.25 / -0.00	8.64
R025038092RR*	25.00	+0.00 / -0.04	25.00	38.00	9.20	25.00	+0.00 / -0.04	38.00	+0.05 / -0.00	9.50	+0.25 / -0.00	8.89
R025038097RR*	25.00	+0.00 / -0.04	25.00	38.00	9.70	25.00	+0.00 / -0.04	38.00	+0.05 / -0.00	10.00	+0.25 / -0.00	8.89
R028014092RR*	28.00	+0.00 / -0.04	28.00	14.00	9.20	28.00	+0.00 / -0.04	14.00	+0.05 / -0.00	9.50	+0.25 / -0.00	10.54
R028036061RR*	28.00	+0.00 / -0.04	28.00	36.00	6.10	28.00	+0.00 / -0.04	36.00	+0.05 / -0.00	6.40	+0.25 / -0.00	8.64
R028038077RR*	28.00	+0.00 / -0.04	28.00	38.00	7.70	28.00	+0.00 / -0.04	38.00	+0.05 / -0.00	8.00	+0.25 / -0.00	8.89
R028040092RR*	28.00	+0.00 / -0.04	28.00	40.00	9.20	28.00	+0.00 / -0.04	40.00	+0.05 / -0.00	9.50	+0.25 / -0.00	9.53
R028041097RR*	28.00	+0.00 / -0.04	28.00	41.00	9.70	28.00	+0.00 / -0.04	41.00	+0.05 / -0.00	10.00	+0.25 / -0.00	9.78
R030038062RR*	30.00	+0.00 / -0.04	30.00	38.00	6.20	30.00	+0.00 / -0.04	38.00	+0.05 / -0.00	6.50	+0.25 / -0.00	8.89
R030040067RR*	30.00	+0.00 / -0.04	30.00	40.00	6.70	30.00	+0.00 / -0.04	40.00	+0.05 / -0.00	7.00	+0.25 / -0.00	9.27
R030040072RR*	30.00	+0.00 / -0.04	30.00	40.00	7.20	30.00	+0.00 / -0.04	40.00	+0.05 / -0.00	7.50	+0.25 / -0.00	9.27
R030040102RR*	30.00	+0.00 / -0.04	30.00	40.00	10.20	30.00	+0.00 / -0.04	40.00	+0.05 / -0.00	10.50	+0.25 / -0.00	9.78
R030045087RR*	30.00	+0.00 / -0.04	30.00	45.00	8.70	30.00	+0.00 / -0.04	45.00	+0.05 / -0.00	9.00	+0.25 / -0.00	11.43
R030050142RR*	30.00	+0.00 / -0.04	30.00	50.00	14.20	30.00	+0.00 / -0.04	50.00	+0.05 / -0.00	14.50	+0.25 / -0.00	13.97
R032040047RR*	32.00	+0.00 / -0.04	32.00	40.00	4.70	32.00	+0.00 / -0.04	40.00	+0.06 / -0.00	5.00	+0.25 / -0.00	8.91
R032040087RR*	32.00	+0.00 / -0.04	32.00	40.00	8.70	32.00	+0.00 / -0.04	40.00	+0.06 / -0.00	9.00	+0.25 / -0.00	9.78

*** : 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.	
R032042107RR*	32.00	+0.00 / -0.04	32.00	42.00	10.70	32.00	+0.00 / -0.04	42.00	+0.06 / -0.00	11.00	+0.25 / -0.00	10.42
R032045097RR*	32.00	+0.00 / -0.04	32.00	45.00	9.70	32.00	+0.00 / -0.04	45.00	+0.06 / -0.00	10.00	+0.25 / -0.00	11.05
R035043057RR*	35.00	+0.00 / -0.04	35.00	43.00	5.70	35.00	+0.00 / -0.04	43.00	+0.06 / -0.00	6.00	+0.25 / -0.00	11.43
R035045097RR*	35.00	+0.00 / -0.04	35.00	45.00	9.70	35.00	+0.00 / -0.04	45.00	+0.06 / -0.00	10.00	+0.25 / -0.00	11.69
R035045102RR*	35.00	+0.00 / -0.04	35.00	45.00	10.20	35.00	+0.00 / -0.04	45.00	+0.06 / -0.00	10.50	+0.25 / -0.00	11.69
R035050102RR*	35.00	+0.00 / -0.04	35.00	50.00	10.20	35.00	+0.00 / -0.04	50.00	+0.06 / -0.00	10.50	+0.25 / -0.00	11.69
R035050112RR*	35.00	+0.00 / -0.04	35.00	50.00	11.20	35.00	+0.00 / -0.04	50.00	+0.06 / -0.00	11.50	+0.25 / -0.00	11.69
R036043062RR*	36.00	+0.00 / -0.04	36.00	43.00	6.20	36.00	+0.00 / -0.04	43.00	+0.06 / -0.00	6.50	+0.25 / -0.00	11.43
R036044061RR*	36.00	+0.00 / -0.04	36.00	44.00	6.10	36.00	+0.00 / -0.04	44.00	+0.06 / -0.00	6.40	+0.25 / -0.00	11.43
R036046082RR*	36.00	+0.00 / -0.04	36.00	46.00	8.20	36.00	+0.00 / -0.04	46.00	+0.06 / -0.00	8.50	+0.25 / -0.00	11.69
R036048092RR*	36.00	+0.00 / -0.04	36.00	48.00	9.20	36.00	+0.00 / -0.04	48.00	+0.06 / -0.00	9.50	+0.25 / -0.00	11.69
R036048117RR*	36.00	+0.00 / -0.04	36.00	48.00	11.70	36.00	+0.00 / -0.04	48.00	+0.06 / -0.00	12.00	+0.25 / -0.00	12.20
R038055102RR*	38.00	+0.00 / -0.04	38.00	55.00	10.20	38.00	+0.00 / -0.04	55.00	+0.06 / -0.00	10.50	+0.25 / -0.00	11.69
R040048062RR*	40.00	+0.00 / -0.05	40.00	48.00	6.20	40.00	+0.00 / -0.05	48.00	+0.06 / -0.00	6.50	+0.25 / -0.00	10.42
R040050077RR*	40.00	+0.00 / -0.05	40.00	50.00	7.70	40.00	+0.00 / -0.05	50.00	+0.06 / -0.00	8.00	+0.25 / -0.00	11.69
R040050097RR*	40.00	+0.00 / -0.05	40.00	50.00	9.70	40.00	+0.00 / -0.05	50.00	+0.06 / -0.00	10.00	+0.25 / -0.00	11.69
R040050102RR*	40.00	+0.00 / -0.05	40.00	50.00	10.20	40.00	+0.00 / -0.05	50.00	+0.06 / -0.00	10.50	+0.25 / -0.00	11.69
R040050107RR*	40.00	+0.00 / -0.05	40.00	50.00	10.70	40.00	+0.00 / -0.05	50.00	+0.06 / -0.00	11.00	+0.25 / -0.00	11.69
R040055077RR*	40.00	+0.00 / -0.05	40.00	55.00	7.70	40.00	+0.00 / -0.05	55.00	+0.06 / -0.00	8.00	+0.25 / -0.00	11.69
R040055102RR*	40.00	+0.00 / -0.05	40.00	55.00	10.20	40.00	+0.00 / -0.05	55.00	+0.06 / -0.00	10.50	+0.25 / -0.00	11.69
R040055107RR*	40.00	+0.00 / -0.05	40.00	55.00	10.70	40.00	+0.00 / -0.05	55.00	+0.06 / -0.00	11.00	+0.25 / -0.00	11.69
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	13.47
R042052087RR*	42.00	+0.00 / -0.05	42.00	52.00	8.70	42.00	+0.00 / -0.05	52.00	+0.06 / -0.00	9.00	+0.25 / -0.00	11.69
R045055072RR*	45.00	+0.00 / -0.05	45.00	55.00	7.20	45.00	+0.00 / -0.05	55.00	+0.06 / -0.00	7.50	+0.25 / -0.00	11.69
R045055077RR*	45.00	+0.00 / -0.05	45.00	55.00	7.70	45.00	+0.00 / -0.05	55.00	+0.06 / -0.00	8.00	+0.25 / -0.00	11.69
R045055102RR*	45.00	+0.00 / -0.05	45.00	55.00	10.20	45.00	+0.00 / -0.05	55.00	+0.06 / -0.00	10.50	+0.25 / -0.00	11.69
R045055107RR*	45.00	+0.00 / -0.05	45.00	55.00	10.70	45.00	+0.00 / -0.05	55.00	+0.06 / -0.00	11.00	+0.25 / -0.00	11.69
R045057097RR*	45.00	+0.00 / -0.05	45.00	57.00	9.70	45.00	+0.00 / -0.05	57.00	+0.06 / -0.00	10.00	+0.25 / -0.00	11.94
R045060102RR*	45.00	+0.00 / -0.05	45.00	60.00	10.20	45.00	+0.00 / -0.05	60.00	+0.06 / -0.00	10.50	+0.25 / -0.00	12.58
R045065142RR*	45.00	+0.00 / -0.05	45.00	65.00	14.20	45.00	+0.00 / -0.05	65.00	+0.06 / -0.00	14.50	+0.25 / -0.00	13.85
R050060072RR*	50.00	+0.00 / -0.05	50.00	60.00	7.20	50.00	+0.00 / -0.05	60.00	+0.06 / -0.00	7.50	+0.25 / -0.00	11.81
R050060077RR*	50.00	+0.00 / -0.05	50.00	60.00	7.70	50.00	+0.00 / -0.05	60.00	+0.06 / -0.00	8.00	+0.25 / -0.00	11.81
R050060097RR*	50.00	+0.00 / -0.05	50.00	60.00	9.70	50.00	+0.00 / -0.05	60.00	+0.06 / -0.00	10.00	+0.25 / -0.00	12.20
R050060102RR*	50.00	+0.00 / -0.05	50.00	60.00	10.20	50.00	+0.00 / -0.05	60.00	+0.06 / -0.00	10.50	+0.25 / -0.00	11.81
R050062077RR*	50.00	+0.00 / -0.05	50.00	62.00	7.70	50.00	+0.00 / -0.05	62.00	+0.06 / -0.00	8.00	+0.25 / -0.00	12.20
R050062097RR*	50.00	+0.00 / -0.05	50.00	62.00	9.70	50.00	+0.00 / -0.05	62.00	+0.06 / -0.00	10.00	+0.25 / -0.00	12.20
R050065102RR*	50.00	+0.00 / -0.05	50.00	65.00	10.20	50.00	+0.00 / -0.05	65.00	+0.06 / -0.00	10.50	+0.25 / -0.00	12.58
R050065107RR*	50.00	+0.00 / -0.05	50.00	65.00	10.70	50.00	+0.00 / -0.05	65.00	+0.06 / -0.00	11.00	+0.25 / -0.00	12.58
R050070137RR*	50.00	+0.00 / -0.05	50.00	70.00	13.70	50.00	+0.00 / -0.05	70.00	+0.06 / -0.00	14.00	+0.25 / -0.00	13.97
R050070142RR*	50.00	+0.00 / -0.05	50.00	70.00	14.20	50.00	+0.00 / -0.05	70.00	+0.06 / -0.00	14.50	+0.25 / -0.00	13.97
R054066092RR*	54.00	+0.00 / -0.05	54.00	66.00	9.20	54.00	+0.00 / -0.05	66.00	+0.07 / -0.00	9.50	+0.25 / -0.00	12.83
R055065077RR*	55.00	+0.00 / -0.05	55.00	65.00	7.70	55.00	+0.00 / -0.05	65.00	+0.07 / -0.00	8.00	+0.25 / -0.00	12.83
R055065102RR*	55.00	+0.00 / -0.05	55.00	65.00	10.20	55.00	+0.00 / -0.05	65.00	+0.07 / -0.00	10.50	+0.25 / -0.00	12.58
R055065107RR*	55.00	+0.00 / -0.05	55.00	65.00	10.70	55.00	+0.00 / -0.05	65.00	+0.07 / -0.00	11.00	+0.25 / -0.00	12.70
R055065117RR*	55.00	+0.00 / -0.05	55.00	65.00	11.70	55.00	+0.00 / -0.05	65.00	+0.07 / -0.00	12.00	+0.25 / -0.00	12.83
R055070102RR*	55.00	+0.00 / -0.05	55.00	70.00	10.20	55.00	+0.00 / -0.05	70.00	+0.07 / -0.00	10.50	+0.25 / -0.00	13.97
R055075137RR*	55.00	+0.00 / -0.05	55.00	75.00	13.70	55.00	+0.00 / -0.05	75.00	+0.07 / -0.00	14.00	+0.25 / -0.00	13.97
R055075142RR*	55.00	+0.00 / -0.05	55.00	75.00	14.20	55.00	+0.00 / -0.05	75.00	+0.07 / -0.00	14.50	+0.25 / -0.00	13.97

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RR SERIES - NBR/FABRIC/POM

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R056066102RR*	56.00	+0.00 / -0.05	56.00	66.00	10.20	56.00	+0.00 / -0.05	66.00	+0.07 / -0.00	10.50	+0.25 / -0.00	12.58
R056071102RR*	56.00	+0.00 / -0.05	56.00	71.00	10.20	56.00	+0.00 / -0.05	71.00	+0.07 / -0.00	10.50	+0.25 / -0.00	13.97
R056076142RR*	56.00	+0.00 / -0.05	56.00	76.00	14.20	56.00	+0.00 / -0.05	76.00	+0.07 / -0.00	14.50	+0.25 / -0.00	13.97
R060070077RR*	60.00	+0.00 / -0.05	60.00	70.00	7.70	60.00	+0.00 / -0.05	70.00	+0.07 / -0.00	8.00	+0.25 / -0.00	13.34
R060070102RR*	60.00	+0.00 / -0.05	60.00	70.00	10.20	60.00	+0.00 / -0.05	70.00	+0.07 / -0.00	10.50	+0.25 / -0.00	13.34
R060070107RR*	60.00	+0.00 / -0.05	60.00	70.00	10.70	60.00	+0.00 / -0.05	70.00	+0.07 / -0.00	11.00	+0.25 / -0.00	13.97
R060070122RR*	60.00	+0.00 / -0.05	60.00	70.00	12.20	60.00	+0.00 / -0.05	70.00	+0.07 / -0.00	12.50	+0.25 / -0.00	13.34
R060070127RR*	60.00	+0.00 / -0.05	60.00	70.00	12.70	60.00	+0.00 / -0.05	70.00	+0.07 / -0.00	13.00	+0.25 / -0.00	13.34
R060072097RR*	60.00	+0.00 / -0.05	60.00	72.00	9.70	60.00	+0.00 / -0.05	72.00	+0.07 / -0.00	10.00	+0.25 / -0.00	13.59
R060075122RR*	60.00	+0.00 / -0.05	60.00	75.00	12.20	60.00	+0.00 / -0.05	75.00	+0.07 / -0.00	12.50	+0.25 / -0.00	14.86
R060075127RR*	60.00	+0.00 / -0.05	60.00	75.00	12.70	60.00	+0.00 / -0.05	75.00	+0.07 / -0.00	13.00	+0.25 / -0.00	14.86
R060080137RR*	60.00	+0.00 / -0.05	60.00	80.00	13.70	60.00	+0.00 / -0.05	80.00	+0.07 / -0.00	14.00	+0.25 / -0.00	16.39
R060080142RR*	60.00	+0.00 / -0.05	60.00	80.00	14.20	60.00	+0.00 / -0.05	80.00	+0.07 / -0.00	14.50	+0.25 / -0.00	16.39
R063071087RR*	63.00	+0.00 / -0.05	63.00	71.00	8.70	63.00	+0.00 / -0.05	71.00	+0.07 / -0.00	9.00	+0.25 / -0.00	14.61
R063075107RR*	63.00	+0.00 / -0.05	63.00	75.00	10.70	63.00	+0.00 / -0.05	75.00	+0.07 / -0.00	11.00	+0.25 / -0.00	14.35
R063078122RR*	63.00	+0.00 / -0.05	63.00	78.00	12.20	63.00	+0.00 / -0.05	78.00	+0.07 / -0.00	12.50	+0.25 / -0.00	14.86
R063083142RR*	63.00	+0.00 / -0.05	63.00	83.00	14.20	63.00	+0.00 / -0.05	83.00	+0.07 / -0.00	14.50	+0.25 / -0.00	16.39
R065075122RR*	65.00	+0.00 / -0.06	65.00	75.00	12.20	65.00	+0.00 / -0.06	75.00	+0.07 / -0.00	12.50	+0.25 / -0.00	13.34
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	13.34
R065077093RR*	65.00	+0.00 / -0.06	65.00	77.00	9.30	65.00	+0.00 / -0.06	77.00	+0.07 / -0.00	9.60	+0.25 / -0.00	13.97
R065080112RR*	65.00	+0.00 / -0.06	65.00	80.00	11.20	65.00	+0.00 / -0.06	80.00	+0.07 / -0.00	11.50	+0.25 / -0.00	15.88
R065080122RR*	65.00	+0.00 / -0.06	65.00	80.00	12.20	65.00	+0.00 / -0.06	80.00	+0.07 / -0.00	12.50	+0.25 / -0.00	15.88
R070080077RR*	70.00	+0.00 / -0.06	70.00	80.00	7.70	70.00	+0.00 / -0.06	80.00	+0.07 / -0.00	8.00	+0.25 / -0.00	15.50
R070080122RR*	70.00	+0.00 / -0.06	70.00	80.00	12.20	70.00	+0.00 / -0.06	80.00	+0.07 / -0.00	12.50	+0.25 / -0.00	15.88
R070080127RR*	70.00	+0.00 / -0.06	70.00	80.00	12.70	70.00	+0.00 / -0.06	80.00	+0.07 / -0.00	13.00	+0.25 / -0.00	15.88
R070082102RR*	70.00	+0.00 / -0.06	70.00	82.00	10.20	70.00	+0.00 / -0.06	82.00	+0.07 / -0.00	10.50	+0.25 / -0.00	15.88
R070084122RR*	70.00	+0.00 / -0.06	70.00	84.00	12.20	70.00	+0.00 / -0.06	84.00	+0.07 / -0.00	12.50	+0.25 / -0.00	16.90
R070085117RR*	70.00	+0.00 / -0.06	70.00	85.00	11.70	70.00	+0.00 / -0.06	85.00	+0.07 / -0.00	12.00	+0.25 / -0.00	16.90
R070085122RR*	70.00	+0.00 / -0.06	70.00	85.00	12.20	70.00	+0.00 / -0.06	85.00	+0.07 / -0.00	12.50	+0.25 / -0.00	16.90
R070090137RR*	70.00	+0.00 / -0.06	70.00	90.00	13.70	70.00	+0.00 / -0.06	90.00	+0.07 / -0.00	14.00	+0.25 / -0.00	17.91
R075085107RR*	75.00	+0.00 / -0.06	75.00	85.00	10.70	75.00	+0.00 / -0.06	85.00	+0.07 / -0.00	11.00	+0.25 / -0.00	17.02
R075085122RR*	75.00	+0.00 / -0.06	75.00	85.00	12.20	75.00	+0.00 / -0.06	85.00	+0.07 / -0.00	12.50	+0.25 / -0.00	17.02
R075090107RR*	75.00	+0.00 / -0.06	75.00	90.00	10.70	75.00	+0.00 / -0.06	90.00	+0.07 / -0.00	11.00	+0.25 / -0.00	16.90
R075090112RR*	75.00	+0.00 / -0.06	75.00	90.00	11.20	75.00	+0.00 / -0.06	90.00	+0.07 / -0.00	11.50	+0.25 / -0.00	16.90
R075090125RR*	75.00	+0.00 / -0.06	75.00	90.00	12.50	75.00	+0.00 / -0.06	90.00	+0.07 / -0.00	12.80	+0.25 / -0.00	17.02
R075095142RR*	75.00	+0.00 / -0.06	75.00	95.00	14.20	75.00	+0.00 / -0.06	95.00	+0.07 / -0.00	14.50	+0.25 / -0.00	18.42
R080090122RR*	80.00	+0.00 / -0.09	80.00	90.00	12.20	80.00	+0.00 / -0.09	90.00	+0.07 / -0.00	12.50	+0.25 / -0.00	17.02
R080093142RR*	80.00	+0.00 / -0.09	80.00	93.00	14.20	80.00	+0.00 / -0.09	93.00	+0.07 / -0.00	14.50	+0.25 / -0.00	17.02
R080095097RR*	80.00	+0.00 / -0.09	80.00	95.00	9.70	80.00	+0.00 / -0.09	95.00	+0.07 / -0.00	10.00	+0.25 / -0.00	16.90
R080095117RR*	80.00	+0.00 / -0.09	80.00	95.00	11.70	80.00	+0.00 / -0.09	95.00	+0.07 / -0.00	12.00	+0.25 / -0.00	17.28
R080096102RR*	80.00	+0.00 / -0.09	80.00	96.00	10.20	80.00	+0.00 / -0.09	96.00	+0.07 / -0.00	10.50	+0.25 / -0.00	17.28
R080100117RR*	80.00	+0.00 / -0.09	80.00	100.00	11.70	80.00	+0.00 / -0.09	100.00	+0.07 / -0.00	12.00	+0.25 / -0.00	17.53
R080100122RR*	80.00	+0.00 / -0.09	80.00	100.00	12.20	80.00	+0.00 / -0.09	100.00	+0.07 / -0.00	12.50	+0.25 / -0.00	17.53
R080100137RR*	80.00	+0.00 / -0.09	80.00	100.00	13.70	80.00	+0.00 / -0.09	100.00	+0.07 / -0.00	14.00	+0.25 / -0.00	18.17
R080100142RR*	80.00	+0.00 / -0.09	80.00	100.00	14.20	80.00	+0.00 / -0.09	100.00	+0.07 / -0.00	14.50	+0.25 / -0.00	18.17
R085095077RR*	85.00	+0.00 / -0.09	85.00	95.00	7.70	85.00	+0.00 / -0.09	95.00	+0.09 / -0.00	8.00	+0.25 / -0.00	17.02
R085100122RR*	85.00	+0.00 / -0.09	85.00	100.00	12.20	85.00	+0.00 / -0.09	100.00	+0.09 / -0.00	12.50	+0.25 / -0.00	17.53
R085105142RR*	85.00	+0.00 / -0.09	85.00	105.00	14.20	85.00	+0.00 / -0.09	105.00	+0.09 / -0.00	14.50	+0.25 / -0.00	18.17

*** : 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.	
R090105092RR*	90.00	+0.00 / -0.09	90.00	105.00	9.20	90.00	+0.00 / -0.09	105.00	+0.09 / -0.00	9.50	+0.25 / -0.00	17.53
R090105122RR*	90.00	+0.00 / -0.09	90.00	105.00	12.20	90.00	+0.00 / -0.09	105.00	+0.09 / -0.00	12.50	+0.25 / -0.00	17.53
R090110117RR*	90.00	+0.00 / -0.09	90.00	110.00	11.70	90.00	+0.00 / -0.09	110.00	+0.09 / -0.00	12.00	+0.25 / -0.00	15.12
R090110122RR*	90.00	+0.00 / -0.09	90.00	110.00	12.20	90.00	+0.00 / -0.09	110.00	+0.09 / -0.00	12.50	+0.25 / -0.00	18.93
R095105107RR*	95.00	+0.00 / -0.09	95.00	105.00	10.70	95.00	+0.00 / -0.09	105.00	+0.09 / -0.00	11.00	+0.25 / -0.00	17.53
R095110117RR*	95.00	+0.00 / -0.09	95.00	110.00	11.70	95.00	+0.00 / -0.09	110.00	+0.09 / -0.00	12.00	+0.25 / -0.00	18.67
R095112117RR*	95.00	+0.00 / -0.09	95.00	112.00	11.70	95.00	+0.00 / -0.09	112.00	+0.09 / -0.00	12.00	+0.25 / -0.00	18.93
R095115117RR*	95.00	+0.00 / -0.09	95.00	115.00	11.70	95.00	+0.00 / -0.09	115.00	+0.09 / -0.00	12.00	+0.25 / -0.00	18.80
R095115142RR*	95.00	+0.00 / -0.09	95.00	115.00	14.20	95.00	+0.00 / -0.09	115.00	+0.09 / -0.00	14.50	+0.25 / -0.00	18.93
R100115112RR*	100.00	+0.00 / -0.09	100.00	115.00	11.20	100.00	+0.00 / -0.09	115.00	+0.09 / -0.00	11.50	+0.25 / -0.00	18.93
R100115122RR*	100.00	+0.00 / -0.09	100.00	115.00	12.20	100.00	+0.00 / -0.09	115.00	+0.09 / -0.00	12.50	+0.25 / -0.00	18.93
R100120117RR*	100.00	+0.00 / -0.09	100.00	120.00	11.70	100.00	+0.00 / -0.09	120.00	+0.09 / -0.00	12.00	+0.25 / -0.00	21.34
R100120137RR*	100.00	+0.00 / -0.09	100.00	120.00	13.70	100.00	+0.00 / -0.09	120.00	+0.09 / -0.00	14.00	+0.25 / -0.00	21.34
R100120142RR*	100.00	+0.00 / -0.09	100.00	120.00	14.20	100.00	+0.00 / -0.09	120.00	+0.09 / -0.00	14.50	+0.25 / -0.00	21.85
R100120242RR*	100.00	+0.00 / -0.09	100.00	120.00	24.20	100.00	+0.00 / -0.09	120.00	+0.09 / -0.00	24.50	+0.25 / -0.00	29.22
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	29.09
R105115107RR*	105.00	+0.00 / -0.13	105.00	115.00	10.70	105.00	+0.00 / -0.13	115.00	+0.09 / -0.00	11.00	+0.25 / -0.00	17.78
R105125122RR*	105.00	+0.00 / -0.13	105.00	125.00	12.20	105.00	+0.00 / -0.13	125.00	+0.09 / -0.00	12.50	+0.25 / -0.00	21.34
R110125117RR*	110.00	+0.00 / -0.13	110.00	125.00	11.70	110.00	+0.00 / -0.13	125.00	+0.09 / -0.00	12.00	+0.25 / -0.00	18.93
R110130122RR*	110.00	+0.00 / -0.13	110.00	130.00	12.20	110.00	+0.00 / -0.13	130.00	+0.09 / -0.00	12.50	+0.25 / -0.00	21.85
R110135152RR*	110.00	+0.00 / -0.13	110.00	135.00	15.20	110.00	+0.00 / -0.13	135.00	+0.09 / -0.00	15.50	+0.25 / -0.00	22.99
R120130102RR*	120.00	+0.00 / -0.13	120.00	130.00	10.20	120.00	+0.00 / -0.13	130.00	+0.09 / -0.00	10.50	+0.25 / -0.00	19.69
R120135122RR*	120.00	+0.00 / -0.13	120.00	135.00	12.20	120.00	+0.00 / -0.13	135.00	+0.09 / -0.00	12.50	+0.25 / -0.00	19.69
R120140122RR*	120.00	+0.00 / -0.13	120.00	140.00	12.20	120.00	+0.00 / -0.13	140.00	+0.09 / -0.00	12.50	+0.25 / -0.00	28.58
R120145185RR*	120.00	+0.00 / -0.13	120.00	145.00	18.50	120.00	+0.00 / -0.13	145.00	+0.09 / -0.00	18.80	+0.25 / -0.00	31.50
R125150137RR*	125.00	+0.00 / -0.13	125.00	150.00	13.70	125.00	+0.00 / -0.13	150.00	+0.10 / -0.00	14.00	+0.25 / -0.00	34.93
R125150142RR*	125.00	+0.00 / -0.13	125.00	150.00	14.20	125.00	+0.00 / -0.13	150.00	+0.10 / -0.00	14.50	+0.25 / -0.00	31.50
R130145127RR*	130.00	+0.00 / -0.13	130.00	145.00	12.70	130.00	+0.00 / -0.13	145.00	+0.10 / -0.00	13.00	+0.25 / -0.00	28.71
R130145147RR*	130.00	+0.00 / -0.13	130.00	145.00	14.70	130.00	+0.00 / -0.13	145.00	+0.10 / -0.00	15.00	+0.25 / -0.00	28.96
R130150167RR*	130.00	+0.00 / -0.13	130.00	150.00	16.70	130.00	+0.00 / -0.13	150.00	+0.10 / -0.00	16.00	+0.25 / -0.00	28.96
R135150137RR*	135.00	+0.00 / -0.13	135.00	150.00	13.70	135.00	+0.00 / -0.13	150.00	+0.10 / -0.00	14.00	+0.25 / -0.00	31.50
R135160137RR*	135.00	+0.00 / -0.13	135.00	160.00	13.70	135.00	+0.00 / -0.13	160.00	+0.10 / -0.00	14.00	+0.25 / -0.00	34.93
R140155127RR*	140.00	+0.00 / -0.13	140.00	155.00	12.70	140.00	+0.00 / -0.13	155.00	+0.10 / -0.00	13.00	+0.25 / -0.00	29.47
R140160117RR*	140.00	+0.00 / -0.13	140.00	160.00	11.70	140.00	+0.00 / -0.13	160.00	+0.10 / -0.00	12.00	+0.25 / -0.00	33.28
R140160122RR*	140.00	+0.00 / -0.13	140.00	160.00	12.20	140.00	+0.00 / -0.13	160.00	+0.10 / -0.00	12.50	+0.25 / -0.00	30.36
R140160142RR*	140.00	+0.00 / -0.13	140.00	160.00	14.20	140.00	+0.00 / -0.13	160.00	+0.10 / -0.00	14.50	+0.25 / -0.00	30.36
R140170225RR*	140.00	+0.00 / -0.13	140.00	170.00	22.50	140.00	+0.00 / -0.13	170.00	+0.10 / -0.00	22.80	+0.25 / -0.00	34.93
R150170137RR*	150.00	+0.00 / -0.13	150.00	170.00	13.70	150.00	+0.00 / -0.13	170.00	+0.10 / -0.00	14.00	+0.25 / -0.00	38.87
R150170142RR*	150.00	+0.00 / -0.13	150.00	170.00	14.20	150.00	+0.00 / -0.13	170.00	+0.10 / -0.00	14.50	+0.25 / -0.00	38.87
R160175167RR*	160.00	+0.00 / -0.13	160.00	175.00	16.70	160.00	+0.00 / -0.13	175.00	+0.10 / -0.00	16.00	+0.25 / -0.00	38.87
R160180142RR*	160.00	+0.00 / -0.13	160.00	180.00	14.20	160.00	+0.00 / -0.13	180.00	+0.10 / -0.00	14.50	+0.25 / -0.00	38.87
R175200227RR*	175.00	+0.00 / -0.13	175.00	200.00	22.70	175.00	+0.00 / -0.13	200.00	+0.10 / -0.00	23.00	+0.25 / -0.00	50.43
R180200142RR*	180.00	+0.00 / -0.13	180.00	200.00	14.20	180.00	+0.00 / -0.13	200.00	+0.10 / -0.00	14.50	+0.25 / -0.00	51.83
R180210202RR*	180.00	+0.00 / -0.13	180.00	210.00	20.20	180.00	+0.00 / -0.13	210.00	+0.10 / -0.00	20.50	+0.25 / -0.00	54.37
R190210142RR*	190.00	+0.00 / -0.13	190.00	210.00	14.20	190.00	+0.00 / -0.13	210.00	+0.12 / -0.00	14.50	+0.25 / -0.00	55.26
R198208117RR*	198.00	+0.00 / -0.13	198.00	208.00	11.70	198.00	+0.00 / -0.13	208.00	+0.12 / -0.00	12.00	+0.25 / -0.00	51.83
R200220142RR*	200.00	+0.00 / -0.13	200.00	220.00	14.20	200.00	+0.00 / -0.13	220.00	+0.12 / -0.00	14.50	+0.25 / -0.00	62.88
R210240202RR*	210.00	+0.00 / -0.13	210.00	240.00	20.20	210.00	+0.00 / -0.13	240.00	+0.12 / -0.00	22.50	+0.25 / -0.00	92.48

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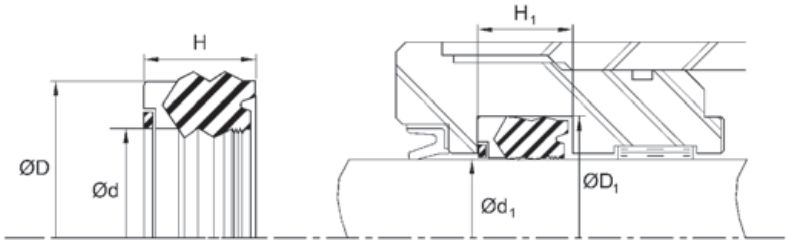
RR SERIES - NBR/FABRIC/POM

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R220250202RR*	220.00	+0.00 / -0.13	220.00	250.00	20.20	220.00	+0.00 / -0.13	250.00	+0.12 / -0.00	20.50	+0.25 / -0.00	111.15
R230260202RR*	230.00	+0.00 / -0.13	230.00	260.00	20.20	230.00	+0.00 / -0.13	260.00	+0.12 / -0.00	20.50	+0.25 / -0.00	O/R

RV - Rod Seals

Nitrile/Neofab/Polyacetal



Temperature: -22/212F [-30/100C] **Pressure: 10 000 PSI [700 Bar]**

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	9.03
R020033200RV*	20.00	+0.00 / -0.04	20.00	33.00	20.00	20.00	+0.00 / -0.04	33.00	+0.10 / -0.00	20.00	+0.25 / -0.00	9.03
R022035200RV*	22.00	+0.00 / -0.04	22.00	35.00	20.00	22.00	+0.00 / -0.04	35.00	+0.10 / -0.00	20.00	+0.25 / -0.00	9.03
R025037225RV*	25.00	+0.00 / -0.04	25.00	37.00	22.50	25.00	+0.00 / -0.04	37.00	+0.10 / -0.00	22.50	+0.25 / -0.00	16.58
R025038200RV*	25.00	+0.00 / -0.04	25.00	38.00	20.00	25.00	+0.00 / -0.04	38.00	+0.10 / -0.00	20.00	+0.25 / -0.00	9.03
R028041200RV*	28.00	+0.00 / -0.04	28.00	41.00	20.00	28.00	+0.00 / -0.04	41.00	+0.10 / -0.00	20.00	+0.25 / -0.00	12.07
R030043200RV*	30.00	+0.00 / -0.04	30.00	43.00	20.00	30.00	+0.00 / -0.04	43.00	+0.10 / -0.00	20.00	+0.25 / -0.00	12.07
R032047225RV*	32.00	+0.00 / -0.04	32.00	47.00	22.50	32.00	+0.00 / -0.04	47.00	+0.10 / -0.00	22.50	+0.25 / -0.00	15.67
R035045256RV*	35.00	+0.00 / -0.04	35.00	45.00	25.50	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	25.50	+0.25 / -0.00	12.65
R035047225RV*	35.00	+0.00 / -0.04	35.00	47.00	22.50	35.00	+0.00 / -0.04	47.00	+0.10 / -0.00	22.50	+0.25 / -0.00	12.65
R035050225RV	35.00	+0.00 / -0.04	35.00	50.00	22.50	35.00	+0.00 / -0.04	50.00	+0.10 / -0.00	22.50	+0.25 / -0.00	12.07
R036051225RV*	36.00	+0.00 / -0.05	36.00	51.00	22.50	36.00	+0.00 / -0.05	51.00	+0.10 / -0.00	22.50	+0.25 / -0.00	12.07
R040050173RV*	40.00	+0.00 / -0.05	40.00	50.00	17.50	40.00	+0.00 / -0.05	50.00	+0.10 / -0.00	17.50	+0.25 / -0.00	14.84
R040052225RV*	40.00	+0.00 / -0.05	40.00	52.00	22.50	40.00	+0.00 / -0.05	52.00	+0.12 / -0.00	22.50	+0.25 / -0.00	13.25
R040055225RV*	40.00	+0.00 / -0.05	40.00	55.00	22.50	40.00	+0.00 / -0.05	55.00	+0.12 / -0.00	22.50	+0.25 / -0.00	14.71
R040060300RV*	40.00	+0.00 / -0.05	40.00	60.00	30.00	40.00	+0.00 / -0.05	60.00	+0.12 / -0.00	30.00	+0.25 / -0.00	14.25
R045060225RV	45.00	+0.00 / -0.05	45.00	60.00	22.50	45.00	+0.00 / -0.05	60.00	+0.12 / -0.00	22.50	+0.25 / -0.00	20.38
R045065280RV*	45.00	+0.00 / -0.05	45.00	65.00	28.00	45.00	+0.00 / -0.05	65.00	+0.12 / -0.00	28.00	+0.25 / -0.00	23.31
R050063200RV*	50.00	+0.00 / -0.05	50.00	63.00	20.00	50.00	+0.00 / -0.05	63.00	+0.12 / -0.00	20.00	+0.25 / -0.00	14.60
R050065225RV	50.00	+0.00 / -0.05	50.00	65.00	22.50	50.00	+0.00 / -0.05	65.00	+0.12 / -0.00	22.50	+0.25 / -0.00	17.37
R050065245RV	50.00	+0.00 / -0.05	50.00	65.00	24.50	50.00	+0.00 / -0.05	65.00	+0.12 / -0.00	24.50	+0.25 / -0.00	20.69
R050070300RV*	50.00	+0.00 / -0.05	50.00	70.00	30.00	50.00	+0.00 / -0.05	70.00	+0.12 / -0.00	30.00	+0.25 / -0.00	15.08
R050070319RV*	50.00	+0.00 / -0.05	50.00	70.00	31.90	50.00	+0.00 / -0.05	70.00	+0.12 / -0.00	31.90	+0.25 / -0.00	15.08
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	36.47
R055070250RV*	55.00	+0.00 / -0.05	55.00	70.00	25.00	55.00	+0.00 / -0.05	70.00	+0.12 / -0.00	25.00	+0.25 / -0.00	17.61
R055075300RV*	55.00	+0.00 / -0.05	55.00	75.00	30.00	55.00	+0.00 / -0.05	75.00	+0.12 / -0.00	30.00	+0.25 / -0.00	18.09
R055075320RV*	55.00	+0.00 / -0.05	55.00	75.00	32.00	55.00	+0.00 / -0.05	75.00	+0.12 / -0.00	32.00	+0.25 / -0.00	18.09
R056071225RV*	56.00	+0.00 / -0.05	56.00	71.00	22.50	56.00	+0.00 / -0.05	71.00	+0.12 / -0.00	22.50	+0.25 / -0.00	18.09

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

RV SERIES - NBR/NEO/POM

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R056071250RV*	56.00	+0.00 / -0.05	56.00	71.00	25.00	56.00	+0.00 / -0.05	71.00	+0.12 / -0.00	25.00	+0.25 / -0.00	18.99
R056076280RV*	56.00	+0.00 / -0.05	56.00	76.00	28.00	56.00	+0.00 / -0.05	76.00	+0.12 / -0.00	28.00	+0.25 / -0.00	18.09
R060075225RV	60.00	+0.00 / -0.05	60.00	75.00	22.50	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	22.50	+0.25 / -0.00	18.59
R060075250RV*	60.00	+0.00 / -0.05	60.00	75.00	25.00	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	25.00	+0.25 / -0.00	16.59
R060077270RV*	60.00	+0.00 / -0.05	60.00	77.00	27.00	60.00	+0.00 / -0.05	77.00	+0.12 / -0.00	27.00	+0.25 / -0.00	16.59
R060080270RV*	60.00	+0.00 / -0.05	60.00	80.00	27.00	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	27.00	+0.25 / -0.00	18.09
R060080300RV*	60.00	+0.00 / -0.05	60.00	80.00	30.00	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	30.00	+0.25 / -0.00	18.83
R060080320RV*	60.00	+0.00 / -0.05	60.00	80.00	32.00	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	32.00	+0.25 / -0.00	18.99
R060080349RV*	60.00	+0.00 / -0.05	60.00	80.00	34.90	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	34.90	+0.25 / -0.00	18.09
R063083270RV*	63.00	+0.00 / -0.05	63.00	83.00	28.00	63.00	+0.00 / -0.05	83.00	+0.14 / -0.00	28.00	+0.25 / -0.00	46.38
R063083290RV*	63.00	+0.00 / -0.05	63.00	83.00	29.00	63.00	+0.00 / -0.05	83.00	+0.14 / -0.00	29.00	+0.25 / -0.00	18.09
R063083300RV*	63.00	+0.00 / -0.05	63.00	83.00	30.00	63.00	+0.00 / -0.05	83.00	+0.14 / -0.00	30.00	+0.25 / -0.00	23.18
R065085290RV*	65.00	+0.00 / -0.05	65.00	85.00	29.00	65.00	+0.00 / -0.05	85.00	+0.14 / -0.00	29.00	+0.25 / -0.00	38.16
R070083250RV*	70.00	+0.00 / -0.06	70.00	83.00	25.00	70.00	+0.00 / -0.06	83.00	+0.14 / -0.00	25.00	+0.25 / -0.00	20.79
R070085225RV	70.00	+0.00 / -0.06	70.00	85.00	22.50	70.00	+0.00 / -0.06	85.00	+0.14 / -0.00	22.50	+0.25 / -0.00	21.63
R070085250RV*	70.00	+0.00 / -0.06	70.00	85.00	25.00	70.00	+0.00 / -0.06	85.00	+0.14 / -0.00	25.00	+0.25 / -0.00	18.09
R070090300RV	70.00	+0.00 / -0.06	70.00	90.00	30.00	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	30.00	+0.25 / -0.00	31.01
R070090319RV*	70.00	+0.00 / -0.06	70.00	90.00	31.90	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	31.90	+0.25 / -0.00	19.60
R075095280RV	75.00	+0.00 / -0.06	75.00	95.00	28.00	75.00	+0.00 / -0.06	95.00	+0.14 / -0.00	28.00	+0.25 / -0.00	21.11
R075095300RV*	75.00	+0.00 / -0.06	75.00	95.00	30.00	75.00	+0.00 / -0.06	95.00	+0.14 / -0.00	30.00	+0.25 / -0.00	41.22
R080095225RV*	80.00	+0.00 / -0.09	80.00	95.00	22.50	80.00	+0.00 / -0.09	95.00	+0.14 / -0.00	22.50	+0.25 / -0.00	65.88
R080100300RV	80.00	+0.00 / -0.09	80.00	100.00	30.00	80.00	+0.00 / -0.09	100.00	+0.14 / -0.00	30.00	+0.25 / -0.00	32.56
R085095225RV*	85.00	+0.00 / -0.09	85.00	95.00	22.50	85.00	+0.00 / -0.09	95.00	+0.14 / -0.00	22.50	+0.25 / -0.00	31.41
R085100225RV	85.00	+0.00 / -0.09	85.00	100.00	22.50	85.00	+0.00 / -0.09	100.00	+0.14 / -0.00	22.50	+0.25 / -0.00	37.99
R085105220RV*	85.00	+0.00 / -0.09	85.00	105.00	22.00	85.00	+0.00 / -0.09	105.00	+0.14 / -0.00	22.00	+0.25 / -0.00	21.11
R085105300RV*	85.00	+0.00 / -0.09	85.00	105.00	30.00	85.00	+0.00 / -0.09	105.00	+0.14 / -0.00	30.00	+0.25 / -0.00	21.11
R090105225RV	90.00	+0.00 / -0.09	90.00	105.00	22.50	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	22.50	+0.25 / -0.00	36.28
R090105250RV*	90.00	+0.00 / -0.09	90.00	105.00	25.00	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	25.00	+0.25 / -0.00	22.61
R090105335RV*	90.00	+0.00 / -0.09	90.00	105.00	33.50	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	33.50	+0.25 / -0.00	22.61
R090110300RV	90.00	+0.00 / -0.09	90.00	110.00	30.00	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	30.00	+0.25 / -0.00	33.29
R090110325RV*	90.00	+0.00 / -0.09	90.00	110.00	32.50	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	32.50	+0.25 / -0.00	22.61
R095110225RV*	95.00	+0.00 / -0.09	95.00	110.00	22.50	95.00	+0.00 / -0.09	110.00	+0.14 / -0.00	22.50	+0.25 / -0.00	24.77
R095115280RV*	95.00	+0.00 / -0.09	95.00	115.00	28.00	95.00	+0.00 / -0.09	115.00	+0.14 / -0.00	28.00	+0.25 / -0.00	25.31
R100114242RV*	100.00	+0.00 / -0.09	100.00	114.30	24.20	100.00	+0.00 / -0.09	114.30	+0.14 / -0.00	24.20	+0.25 / -0.00	24.12
R100120300RV*	100.00	+0.00 / -0.09	100.00	120.00	30.00	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	30.00	+0.25 / -0.00	29.15
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	+0.25 / -0.00	25.21
R105120340RV*	105.00	+0.00 / -0.13	105.00	120.00	34.00	105.00	+0.00 / -0.13	120.00	+0.16 / -0.00	34.00	+0.25 / -0.00	25.21
R105125300RV*	105.00	+0.00 / -0.13	105.00	125.00	30.00	105.00	+0.00 / -0.13	125.00	+0.16 / -0.00	30.00	+0.25 / -0.00	35.24
R110125225RV*	110.00	+0.00 / -0.13	110.00	125.00	22.50	110.00	+0.00 / -0.13	125.00	+0.16 / -0.00	22.50	+0.25 / -0.00	38.83
R110130300RV*	110.00	+0.00 / -0.13	110.00	130.00	30.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	30.00	+0.25 / -0.00	50.08
R110130325RV*	110.00	+0.00 / -0.13	110.00	130.00	32.50	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	32.50	+0.25 / -0.00	31.52
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	31.52
R114130190RV*	114.00	+0.00 / -0.13	114.00	130.00	19.00	114.00	+0.00 / -0.13	130.00	+0.16 / -0.00	19.00	+0.25 / -0.00	42.00
R115125225RV*	115.00	+0.00 / -0.13	115.00	125.00	22.50	115.00	+0.00 / -0.13	125.00	+0.16 / -0.00	22.50	+0.25 / -0.00	45.19
R115130225RV*	115.00	+0.00 / -0.13	115.00	130.00	22.50	115.00	+0.00 / -0.13	130.00	+0.16 / -0.00	22.50	+0.25 / -0.00	38.83
R115130300RV*	115.00	+0.00 / -0.13	115.00	130.00	30.00	115.00	+0.00 / -0.13	130.00	+0.16 / -0.00	30.00	+0.25 / -0.00	31.52
R120140300RV*	120.00	+0.00 / -0.13	120.00	140.00	30.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	30.00	+0.25 / -0.00	31.52
R125140225RV*	125.00	+0.00 / -0.13	125.00	140.00	22.50	125.00	+0.00 / -0.13	140.00	+0.16 / -0.00	22.50	+0.25 / -0.00	42.63

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

RV SERIES - NBR/NEO/POM

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R125145300RV	125.00	+0.00 / -0.13	125.00	145.00	30.00	125.00	+0.00 / -0.13	145.00	+0.16 / -0.00	30.00	+0.25 / -0.00	33.07
R127142225RV*	127.00	+0.00 / -0.13	127.00	142.00	22.50	127.00	+0.00 / -0.13	142.00	+0.16 / -0.00	22.50	+0.25 / -0.00	42.63
R130150300RV*	130.00	+0.00 / -0.13	130.00	150.00	30.00	130.00	+0.00 / -0.13	150.00	+0.16 / -0.00	30.00	+0.25 / -0.00	34.68
R135150225RV*	135.00	+0.00 / -0.13	135.00	150.00	22.50	135.00	+0.00 / -0.13	150.00	+0.16 / -0.00	22.50	+0.25 / -0.00	44.53
R135155280RV*	135.00	+0.00 / -0.13	135.00	155.00	28.00	135.00	+0.00 / -0.13	155.00	+0.16 / -0.00	28.00	+0.25 / -0.00	36.89
R140155225RV*	140.00	+0.00 / -0.13	140.00	155.00	22.50	140.00	+0.00 / -0.13	155.00	+0.16 / -0.00	22.50	+0.25 / -0.00	52.47
R140160190RV*	140.00	+0.00 / -0.13	140.00	160.00	19.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	19.00	+0.25 / -0.00	39.40
R140160225RV*	140.00	+0.00 / -0.13	140.00	160.00	22.50	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	22.50	+0.25 / -0.00	50.44
R140160280RV*	140.00	+0.00 / -0.13	140.00	160.00	28.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	28.00	+0.25 / -0.00	39.40
R140160300RV*	140.00	+0.00 / -0.13	140.00	160.00	30.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	30.00	+0.25 / -0.00	72.12
R145165225RV*	145.00	+0.00 / -0.13	145.00	165.00	22.50	145.00	+0.00 / -0.13	165.00	+0.16 / -0.00	22.50	+0.25 / -0.00	54.24
R150170280RV*	150.00	+0.00 / -0.13	150.00	170.00	28.00	150.00	+0.00 / -0.13	170.00	+0.16 / -0.00	28.00	+0.25 / -0.00	39.40
R155175225RV*	155.00	+0.00 / -0.13	155.00	175.00	22.50	155.00	+0.00 / -0.13	175.00	+0.16 / -0.00	22.50	+0.25 / -0.00	62.05
R155175280RV*	155.00	+0.00 / -0.13	155.00	175.00	28.00	155.00	+0.00 / -0.13	175.00	+0.16 / -0.00	28.00	+0.25 / -0.00	55.17
R160180280RV*	160.00	+0.00 / -0.13	160.00	180.00	28.00	160.00	+0.00 / -0.13	180.00	+0.16 / -0.00	28.00	+0.25 / -0.00	35.94
R165185300RV*	165.00	+0.00 / -0.13	165.00	185.00	30.00	165.00	+0.00 / -0.13	185.00	+0.16 / -0.00	30.00	+0.25 / -0.00	55.17
R170185225RV*	170.00	+0.00 / -0.13	170.00	185.00	22.50	170.00	+0.00 / -0.13	185.00	+0.16 / -0.00	22.50	+0.25 / -0.00	63.95
R170195350RV*	170.00	+0.00 / -0.13	170.00	195.00	35.00	170.00	+0.00 / -0.13	195.00	+0.16 / -0.00	35.00	+0.25 / -0.00	63.06
R175195225RV*	175.00	+0.00 / -0.13	175.00	195.00	22.50	175.00	+0.00 / -0.13	195.00	+0.16 / -0.00	22.50	+0.25 / -0.00	69.86
R175195300RV*	175.00	+0.00 / -0.13	175.00	195.00	30.00	175.00	+0.00 / -0.13	195.00	+0.16 / -0.00	30.00	+0.25 / -0.00	77.45
R175200350RV*	175.00	+0.00 / -0.13	175.00	200.00	35.00	175.00	+0.00 / -0.13	200.00	+0.16 / -0.00	35.00	+0.25 / -0.00	63.06
R177192225RV*	177.00	+0.00 / -0.13	177.00	192.00	22.50	177.00	+0.00 / -0.13	192.00	+0.16 / -0.00	22.50	+0.25 / -0.00	73.65
R180205350RV	180.00	+0.00 / -0.13	180.00	205.00	35.00	180.00	+0.00 / -0.13	205.00	+0.18 / -0.00	35.00	+0.25 / -0.00	64.51
R185200225RV*	185.00	+0.00 / -0.13	185.00	200.00	22.50	185.00	+0.00 / -0.13	200.00	+0.18 / -0.00	22.50	+0.25 / -0.00	77.45
R185210350RV*	185.00	+0.00 / -0.13	185.00	210.00	35.00	185.00	+0.00 / -0.13	210.00	+0.18 / -0.00	35.00	+0.25 / -0.00	70.95
R187202225RV*	187.00	+0.00 / -0.13	187.00	202.00	22.50	187.00	+0.00 / -0.13	202.00	+0.18 / -0.00	22.50	+0.25 / -0.00	77.45
R190215350RV*	190.00	+0.00 / -0.13	190.00	215.00	35.00	190.00	+0.00 / -0.13	215.00	+0.18 / -0.00	35.00	+0.25 / -0.00	70.95
R192210225RV*	192.00	+0.00 / -0.13	192.00	210.00	22.50	192.00	+0.00 / -0.13	210.00	+0.18 / -0.00	22.50	+0.25 / -0.00	77.45
R195210225RV*	195.00	+0.00 / -0.13	195.00	210.00	22.50	195.00	+0.00 / -0.13	210.00	+0.18 / -0.00	22.50	+0.25 / -0.00	77.45
R195220350RV*	195.00	+0.00 / -0.13	195.00	220.00	35.00	195.00	+0.00 / -0.13	220.00	+0.18 / -0.00	35.00	+0.25 / -0.00	78.81
R200215225RV*	200.00	+0.00 / -0.13	200.00	215.00	22.50	200.00	+0.00 / -0.13	215.00	+0.18 / -0.00	22.50	+0.25 / -0.00	81.25
R200225350RV	200.00	+0.00 / -0.13	200.00	225.00	35.00	200.00	+0.00 / -0.13	225.00	+0.18 / -0.00	35.00	+0.25 / -0.00	96.83
R205230350RV*	205.00	+0.00 / -0.13	205.00	230.00	35.00	205.00	+0.00 / -0.13	230.00	+0.18 / -0.00	35.00	+0.25 / -0.00	123.88
R207225225RV*	207.00	+0.00 / -0.13	207.00	225.00	22.50	207.00	+0.00 / -0.13	225.00	+0.18 / -0.00	22.50	+0.25 / -0.00	81.25
R210235300RV*	210.00	+0.00 / -0.13	210.00	235.00	30.00	210.00	+0.00 / -0.13	235.00	+0.18 / -0.00	30.00	+0.25 / -0.00	102.46
R210235350RV*	210.00	+0.00 / -0.13	210.00	235.00	35.00	210.00	+0.00 / -0.13	235.00	+0.18 / -0.00	35.00	+0.25 / -0.00	137.60
R212230225RV*	212.00	+0.00 / -0.13	212.00	230.00	22.50	212.00	+0.00 / -0.13	230.00	+0.18 / -0.00	22.50	+0.25 / -0.00	85.26
R215240350RV*	215.00	+0.00 / -0.13	215.00	240.00	35.00	215.00	+0.00 / -0.13	240.00	+0.18 / -0.00	35.00	+0.25 / -0.00	102.46
R220240225RV*	220.00	+0.00 / -0.13	220.00	240.00	22.50	220.00	+0.00 / -0.13	240.00	+0.18 / -0.00	22.50	+0.25 / -0.00	100.67
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	102.46
R225240225RV*	225.00	+0.00 / -0.13	225.00	240.00	22.50	225.00	+0.00 / -0.13	240.00	+0.18 / -0.00	22.50	+0.25 / -0.00	100.67
R225250350RV*	225.00	+0.00 / -0.13	225.00	250.00	35.00	225.00	+0.00 / -0.13	250.00	+0.18 / -0.00	35.00	+0.25 / -0.00	110.35
R230250225RV*	230.00	+0.00 / -0.13	230.00	250.00	22.50	230.00	+0.00 / -0.13	250.00	+0.18 / -0.00	22.50	+0.25 / -0.00	116.07
R230255350RV*	230.00	+0.00 / -0.13	230.00	255.00	35.00	230.00	+0.00 / -0.13	255.00	+0.18 / -0.00	35.00	+0.25 / -0.00	110.35
R235255225RV*	235.00	+0.00 / -0.13	235.00	255.00	22.50	235.00	+0.00 / -0.13	255.00	+0.18 / -0.00	22.50	+0.25 / -0.00	123.88
R240265350RV*	240.00	+0.00 / -0.13	240.00	265.00	35.00	240.00	+0.00 / -0.13	265.00	+0.18 / -0.00	35.00	+0.25 / -0.00	110.35
R250275350RV*	250.00	+0.00 / -0.13	250.00	275.00	35.00	250.00	+0.00 / -0.13	275.00	+0.18 / -0.00	35.00	+0.25 / -0.00	126.09
R260280225RV*	260.00	+0.00 / -0.13	260.00	280.00	22.50	260.00	+0.00 / -0.13	280.00	+0.18 / -0.00	22.50	+0.25 / -0.00	162.71

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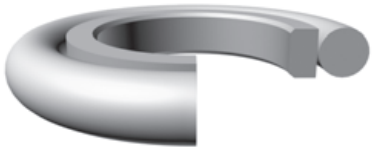
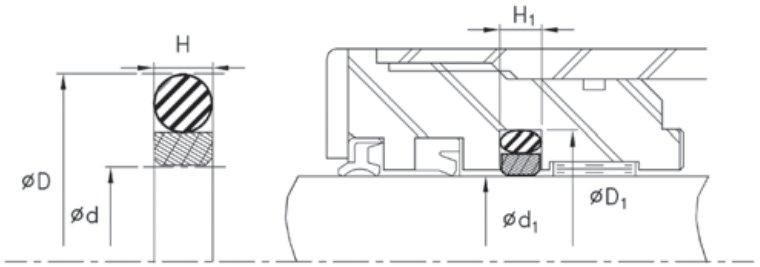
RV SERIES - NBR/NEO/POM

Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	H	Housing Dimensions d1	Tol.	D1	Tol.	H1	Tol.	$
R265290350RV*	265.00	+0.00 / -0.13	265.00	290.00	35.00	265.00	+0.00 / -0.13	290.00	+0.18 / -0.00	35.00	+0.25 / -0.00	141.87
R275300350RV*	275.00	+0.00 / -0.13	275.00	300.00	35.00	275.00	+0.00 / -0.13	300.00	+0.18 / -0.00	35.00	+0.25 / -0.00	141.87
R280305350RV*	280.00	+0.00 / -0.13	280.00	305.00	35.00	280.00	+0.00 / -0.13	305.00	+0.18 / -0.00	35.00	+0.25 / -0.00	141.87
R283303225RV*	283.00	+0.00 / -0.13	283.00	303.00	22.50	283.00	+0.00 / -0.13	303.00	+0.18 / -0.00	22.50	+0.25 / -0.00	170.31
R300325350RV*	300.00	+0.00 / -0.13	300.00	325.00	35.00	300.00	+0.00 / -0.13	325.00	+0.18 / -0.00	35.00	+0.25 / -0.00	157.64
R335360350RV*	335.00	+0.00 / -0.13	335.00	360.00	35.00	335.00	+0.00 / -0.13	360.00	+0.18 / -0.00	35.00	+0.25 / -0.00	189.15

RX - Buffer Seals

BR.PTFE/NBR





Temperature: -50/250F [-45/121C] **Pressure: 5800 PSI [400 Bar]**

Ref.Number	Rod diameter	Tol.	Nominal Seal Dimensions d	D	H	EXP.	Housing Dimensions D1	Tol.	H1	Tol.	$
R004008020RX*	4.00	+0.00 / -0.04					8.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.50
R005009020RX*	5.00	+0.00 / -0.04					9.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.50
R006010020RX	6.00	+0.00 / -0.04					10.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.50
R007011020RX*	7.00	+0.00 / -0.04					11.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.50
R008012020RX	8.00	+0.00 / -0.04					12.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.50
R008015029RX*	8.00	+0.00 / -0.04					15.30	+0.04 / -0.00	3.20	+0.20 / -0.00	11.50
R010014020RX*	10.00	+0.00 / -0.04					14.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.69
R010017029RX*	10.00	+0.00 / -0.04					17.30	+0.04 / -0.00	3.20	+0.20 / -0.00	11.69
R012016020RX*	12.00	+0.00 / -0.04					16.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.69
R012019029RX*	12.00	+0.00 / -0.04					19.30	+0.04 / -0.00	3.20	+0.20 / -0.00	11.69
R014018020RX*	14.00	+0.00 / -0.04					18.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.69
R014021029RX	14.00	+0.00 / -0.04					21.30	+0.04 / -0.00	3.20	+0.20 / -0.00	11.69
R015022029RX*	15.00	+0.00 / -0.04					22.30	+0.04 / -0.00	3.20	+0.20 / -0.00	11.69
R016020020RX*	16.00	+0.00 / -0.04					20.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.69
R016023029RX	16.00	+0.00 / -0.04					23.30	+0.04 / -0.00	3.20	+0.20 / -0.00	11.86
R018022020RX	18.00	+0.00 / -0.04					22.90	+0.04 / -0.00	2.20	+0.20 / -0.00	11.86
R018025029RX	18.00	+0.00 / -0.04					25.30	+0.04 / -0.00	3.20	+0.20 / -0.00	11.86
R020027029RX*	20.00	+0.00 / -0.04					27.30	+0.05 / -0.00	3.20	+0.20 / -0.00	11.86
R020030039RX	20.00	+0.00 / -0.04					30.70	+0.05 / -0.00	4.20	+0.20 / -0.00	11.86
R022029029RX*	22.00	+0.00 / -0.04					29.30	+0.05 / -0.00	3.20	+0.20 / -0.00	11.86
R022032039RX*	22.00	+0.00 / -0.04					32.70	+0.05 / -0.00	4.20	+0.20 / -0.00	11.86
R025032029RX*	25.00	+0.00 / -0.04					32.30	+0.05 / -0.00	3.20	+0.20 / -0.00	11.86
R025035039RX	25.00	+0.00 / -0.04					35.70	+0.05 / -0.00	4.20	+0.20 / -0.00	11.86
R028038039RX	28.00	+0.00 / -0.04					38.70	+0.05 / -0.00	4.20	+0.20 / -0.00	12.30

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

RX SERIES - BR.PTFE/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	H	EXP.	D1	Tol.	H1	Tol.	
R030037029RX*	30.00	+0.00 / -0.04					37.30	+0.05 / -0.00	3.20	+0.20 / -0.00	12.30
R030040039RX*	30.00	+0.00 / -0.04					40.70	+0.05 / -0.00	4.20	+0.20 / -0.00	12.30
R032039029RX*	32.00	+0.00 / -0.04					39.30	+0.05 / -0.00	3.20	+0.20 / -0.00	12.30
R032042039RX	32.00	+0.00 / -0.04					42.70	+0.06 / -0.00	4.20	+0.20 / -0.00	12.30
R035045039RX	35.00	+0.00 / -0.04					45.70	+0.06 / -0.00	4.20	+0.20 / -0.00	12.46
R036043029RX	36.00	+0.00 / -0.04					43.30	+0.06 / -0.00	3.20	+0.20 / -0.00	12.46
R036046039RX	36.00	+0.00 / -0.04					46.70	+0.06 / -0.00	4.20	+0.20 / -0.00	12.46
R040050039RX	40.00	+0.00 / -0.05					50.70	+0.06 / -0.00	4.20	+0.20 / -0.00	12.46
R040055059RX	40.00	+0.00 / -0.05					55.10	+0.06 / -0.00	6.30	+0.20 / -0.00	11.99
R042057059RX*	42.00	+0.00 / -0.05					57.10	+0.06 / -0.00	6.30	+0.20 / -0.00	37.78
R045055039RX	45.00	+0.00 / -0.05					55.70	+0.06 / -0.00	4.20	+0.20 / -0.00	15.20
R045060059RX*	45.00	+0.00 / -0.05					60.10	+0.06 / -0.00	6.30	+0.20 / -0.00	15.20
R048063059RX*	48.00	+0.00 / -0.05					63.10	+0.06 / -0.00	6.30	+0.20 / -0.00	37.78
R050060039RX*	50.00	+0.00 / -0.05					60.70	+0.06 / -0.00	4.20	+0.20 / -0.00	15.20
R050065059RX	50.00	+0.00 / -0.05					65.10	+0.06 / -0.00	6.30	+0.20 / -0.00	28.02
R052067059RX	52.00	+0.00 / -0.05					67.10	+0.07 / -0.00	6.30	+0.20 / -0.00	42.87
R055070059RX*	55.00	+0.00 / -0.05					70.10	+0.07 / -0.00	6.30	+0.20 / -0.00	25.35
R056066039RX	56.00	+0.00 / -0.05					66.70	+0.07 / -0.00	4.20	+0.20 / -0.00	36.48
R056071059RX*	56.00	+0.00 / -0.05					71.10	+0.07 / -0.00	6.30	+0.20 / -0.00	16.58
R060070039RX	60.00	+0.00 / -0.05					70.70	+0.07 / -0.00	4.20	+0.20 / -0.00	19.32
R060075059RX*	60.00	+0.00 / -0.05					75.10	+0.07 / -0.00	6.30	+0.20 / -0.00	25.35
R063078059RX	63.00	+0.00 / -0.05					78.10	+0.07 / -0.00	6.30	+0.20 / -0.00	20.92
R065080059RX	65.00	+0.00 / -0.06					80.10	+0.07 / -0.00	6.30	+0.20 / -0.00	24.44
R070085059RX	70.00	+0.00 / -0.06					85.10	+0.07 / -0.00	6.30	+0.20 / -0.00	28.38
R075090059RX	75.00	+0.00 / -0.06					90.10	+0.07 / -0.00	6.30	+0.20 / -0.00	30.27
R080095059RX	80.00	+0.00 / -0.09					95.10	+0.07 / -0.00	6.30	+0.20 / -0.00	32.64
R085100059RX	85.00	+0.00 / -0.09					100.10	+0.09 / -0.00	6.30	+0.20 / -0.00	32.23
R090105059RX	90.00	+0.00 / -0.09					105.10	+0.09 / -0.00	6.30	+0.20 / -0.00	35.44
R095110059RX	95.00	+0.00 / -0.09					110.10	+0.09 / -0.00	6.30	+0.20 / -0.00	36.57
R100115059RX	100.00	+0.00 / -0.09					115.10	+0.09 / -0.00	6.30	+0.20 / -0.00	37.16
R105120059RX*	105.00	+0.00 / -0.13					120.10	+0.09 / -0.00	6.30	+0.20 / -0.00	42.26
R110125059RX	110.00	+0.00 / -0.13					125.10	+0.09 / -0.00	6.30	+0.20 / -0.00	44.12
R115130059RX	115.00	+0.00 / -0.13					130.10	+0.09 / -0.00	6.30	+0.20 / -0.00	44.00
R120135059RX	120.00	+0.00 / -0.13					135.10	+0.09 / -0.00	6.30	+0.20 / -0.00	44.21
R125140059RX	125.00	+0.00 / -0.13					140.10	+0.10 / -0.00	6.30	+0.20 / -0.00	44.71
R130145059RX	130.00	+0.00 / -0.13					145.10	+0.10 / -0.00	6.30	+0.20 / -0.00	45.06
R135150059RX*	135.00	+0.00 / -0.13					150.10	+0.10 / -0.00	6.30	+0.20 / -0.00	61.31
R140155059RX	140.00	+0.00 / -0.13					155.10	+0.10 / -0.00	6.30	+0.20 / -0.00	45.50
R145160059RX*	145.00	+0.00 / -0.13					160.10	+0.10 / -0.00	6.30	+0.20 / -0.00	63.11
R150165059RX	150.00	+0.00 / -0.13					165.10	+0.10 / -0.00	6.30	+0.20 / -0.00	48.03
R155170059RX*	155.00	+0.00 / -0.13					170.10	+0.10 / -0.00	6.30	+0.20 / -0.00	64.77
R160175059RX	160.00	+0.00 / -0.13					175.10	+0.10 / -0.00	6.30	+0.20 / -0.00	49.43
R165180059RX*	165.00	+0.00 / -0.13					180.10	+0.10 / -0.00	6.30	+0.20 / -0.00	88.81
R170185059RX	170.00	+0.00 / -0.13					185.10	+0.10 / -0.00	6.30	+0.20 / -0.00	60.74
R180195059RX*	180.00	+0.00 / -0.13					195.10	+0.10 / -0.00	6.30	+0.20 / -0.00	101.98
R180200076RX	180.00	+0.00 / -0.13					200.50	+0.10 / -0.00	8.10	+0.20 / -0.00	103.90
R190205059RX*	190.00	+0.00 / -0.13					205.10	+0.12 / -0.00	6.30	+0.20 / -0.00	107.07
R200220076RX	200.00	+0.00 / -0.13					220.50	+0.12 / -0.00	8.10	+0.20 / -0.00	109.16

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

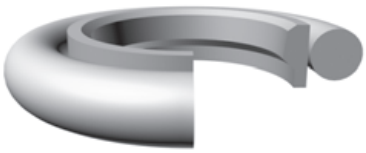
RX SERIES - BR.PTFE/NBR

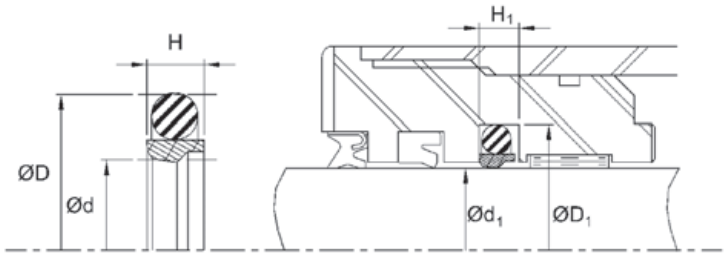
Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	H	EXP.	D1	Tol.	H1	Tol.	
R210230076RX	210.00	+0.00 / -0.13					230.50	+0.12 / -0.00	8.10	+0.20 / -0.00	119.45
R220240076RX	220.00	+0.00 / -0.13					240.50	+0.12 / -0.00	8.10	+0.20 / -0.00	119.71
R230250076RX*	230.00	+0.00 / -0.13					250.50	+0.12 / -0.00	8.10	+0.20 / -0.00	124.81
R240260076RX*	240.00	+0.00 / -0.13					260.50	+0.12 / -0.00	8.10	+0.20 / -0.00	134.57
R250270076RX	250.00	+0.00 / -0.13					270.50	+0.12 / -0.00	8.10	+0.20 / -0.00	162.86
R260284076RX*	260.00	+0.00 / -0.13					284.00	+0.13 / -0.00	8.10	+0.20 / -0.00	172.94
R260287089RX*	260.00	+0.00 / -0.13					287.30	+0.13 / -0.00	9.50	+0.20 / -0.00	198.61
R270294076RX*	270.00	+0.00 / -0.13					294.00	+0.13 / -0.00	8.10	+0.20 / -0.00	183.02
R280304076RX*	280.00	+0.00 / -0.13					304.00	+0.13 / -0.00	8.10	+0.20 / -0.00	183.42
R290314076RX	290.00	+0.00 / -0.13					314.00	+0.13 / -0.00	8.10	+0.20 / -0.00	O/R
R300324076RX*	300.00	+0.00 / -0.13					324.00	+0.13 / -0.00	8.10	+0.20 / -0.00	O/R
R310334076RX*	310.00	+0.00 / -0.13					334.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R320344076RX*	320.00	+0.00 / -0.13					344.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R330354076RX*	330.00	+0.00 / -0.13					354.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R340364076RX*	340.00	+0.00 / -0.13					364.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R350374076RX*	350.00	+0.00 / -0.13					374.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R360384076RX	360.00	+0.00 / -0.13					384.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R370394076RX*	370.00	+0.00 / -0.13					394.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R380404076RX*	380.00	+0.00 / -0.13					404.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R390414076RX*	390.00	+0.00 / -0.13					414.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R400424076RX*	400.00	+0.00 / -0.13					424.00	+0.14 / -0.00	8.10	+0.20 / -0.00	O/R
R410434076RX	410.00	+0.00 / -0.13					434.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R420444076RX*	420.00	+0.00 / -0.13					444.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R430454076RX*	430.00	+0.00 / -0.13					454.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R440464076RX*	440.00	+0.00 / -0.13					464.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R450474076RX	450.00	+0.00 / -0.13					474.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R460484076RX*	460.00	+0.00 / -0.13					484.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R470494076RX*	470.00	+0.00 / -0.13					494.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R480504076RX*	480.00	+0.00 / -0.13					504.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R490514076RX*	490.00	+0.00 / -0.13					514.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R
R500524076RX*	500.00	+0.00 / -0.13					524.00	+0.16 / -0.00	8.10	+0.20 / -0.00	O/R

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

RZ - Buffer Seals

BR.PTFE/NBR





Temperature: -50/250F [-45/121C] **Pressure: 5800 PSI [400 Bar]**

Ref.Number	Rod 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	12.32
R005009020RZ*	5.00	+0.00 / -0.04					9.90	+0.04 / -0.00	2.20	+0.20 / -0.00	12.32
R006010020RZ*	6.00	+0.00 / -0.04					10.90	+0.04 / -0.00	2.20	+0.20 / -0.00	12.32
R007011020RZ*	7.00	+0.00 / -0.04					11.90	+0.04 / -0.00	2.20	+0.20 / -0.00	12.32
R008012020RZ*	8.00	+0.00 / -0.04					12.90	+0.04 / -0.00	2.20	+0.20 / -0.00	10.73
R008015029RZ*	8.00	+0.00 / -0.04					15.30	+0.04 / -0.00	3.20	+0.20 / -0.00	10.61
R010014020RZ	10.00	+0.00 / -0.04					14.90	+0.04 / -0.00	2.20	+0.20 / -0.00	12.52
R010017029RZ*	10.00	+0.00 / -0.04					17.30	+0.04 / -0.00	3.20	+0.20 / -0.00	12.52
R012016020RZ*	12.00	+0.00 / -0.04					16.90	+0.04 / -0.00	2.20	+0.20 / -0.00	4.70
R012019029RZ*	12.00	+0.00 / -0.04					19.30	+0.04 / -0.00	3.20	+0.20 / -0.00	9.73
R014018020RZ*	14.00	+0.00 / -0.04					18.90	+0.04 / -0.00	2.20	+0.20 / -0.00	4.70
R014021029RZ	14.00	+0.00 / -0.04					21.30	+0.04 / -0.00	3.20	+0.20 / -0.00	12.52
R015022029RZ*	15.00	+0.00 / -0.04					22.30	+0.04 / -0.00	3.20	+0.20 / -0.00	9.73
R016020020RZ	16.00	+0.00 / -0.04					20.90	+0.04 / -0.00	2.20	+0.20 / -0.00	12.52
R016023029RZ	16.00	+0.00 / -0.04					23.30	+0.04 / -0.00	3.20	+0.20 / -0.00	4.70
R018022020RZ*	18.00	+0.00 / -0.04					22.90	+0.04 / -0.00	2.20	+0.20 / -0.00	9.12
R018025029RZ	18.00	+0.00 / -0.04					25.30	+0.04 / -0.00	3.20	+0.20 / -0.00	4.93
R020027029RZ*	20.00	+0.00 / -0.04					27.30	+0.05 / -0.00	3.20	+0.20 / -0.00	6.91
R020030039RZ	20.00	+0.00 / -0.04					30.70	+0.05 / -0.00	4.20	+0.20 / -0.00	6.91
R022029029RZ	22.00	+0.00 / -0.04					29.30	+0.05 / -0.00	3.20	+0.20 / -0.00	7.03
R022032039RZ	22.00	+0.00 / -0.04					32.70	+0.05 / -0.00	4.20	+0.20 / -0.00	7.03
R025032029RZ	25.00	+0.00 / -0.04					32.30	+0.05 / -0.00	3.20	+0.20 / -0.00	7.17
R025035039RZ	25.00	+0.00 / -0.04					35.70	+0.05 / -0.00	4.20	+0.20 / -0.00	18.22
R028038039RZ	28.00	+0.00 / -0.04					38.70	+0.05 / -0.00	4.20	+0.20 / -0.00	13.18
R030037029RZ*	30.00	+0.00 / -0.04					37.30	+0.05 / -0.00	3.20	+0.20 / -0.00	13.18
R030040039RZ	30.00	+0.00 / -0.04					40.70	+0.05 / -0.00	4.20	+0.20 / -0.00	22.99
R032039029RZ	32.00	+0.00 / -0.04					39.30	+0.05 / -0.00	3.20	+0.20 / -0.00	15.29
R032042039RZ	32.00	+0.00 / -0.04					42.70	+0.06 / -0.00	4.20	+0.20 / -0.00	7.65
R035045039RZ	35.00	+0.00 / -0.04					45.70	+0.06 / -0.00	4.20	+0.20 / -0.00	8.26
R036043029RZ	36.00	+0.00 / -0.04					43.30	+0.06 / -0.00	3.20	+0.20 / -0.00	8.36
R036046039RZ	36.00	+0.00 / -0.04					46.70	+0.06 / -0.00	4.20	+0.20 / -0.00	8.26
R040050039RZ	40.00	+0.00 / -0.05					50.70	+0.06 / -0.00	4.20	+0.20 / -0.00	13.46
R040052039RZ	40.00	+0.00 / -0.05					52.60	+0.06 / -0.00	4.20	+0.20 / -0.00	23.29
R040055059RZ	40.00	+0.00 / -0.05					55.10	+0.06 / -0.00	6.30	+0.20 / -0.00	23.20
R042057059RZ*	42.00	+0.00 / -0.05					57.10	+0.06 / -0.00	6.30	+0.20 / -0.00	40.48
R045055039RZ	45.00	+0.00 / -0.05					55.70	+0.06 / -0.00	4.20	+0.20 / -0.00	16.40
R045058042RZ	45.00	+0.00 / -0.05					57.60	+0.06 / -0.00	4.20	+0.20 / -0.00	22.36

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

RZ SERIES - BR.PTFE/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	H	EXP.	D1	Tol.	H1	Tol.	
R045060059RZ	45.00	+0.00 / -0.05					60.10	+0.06 / -0.00	6.30	+0.20 / -0.00	16.40
R048063059RZ*	48.00	+0.00 / -0.05					63.10	+0.06 / -0.00	6.30	+0.20 / -0.00	40.48
R050060039RZ	50.00	+0.00 / -0.05					60.70	+0.06 / -0.00	4.20	+0.20 / -0.00	16.40
R050062042RZ	50.00	+0.00 / -0.05					62.60	+0.06 / -0.00	4.50	+0.20 / -0.00	27.29
R050065059RZ	50.00	+0.00 / -0.05					65.10	+0.06 / -0.00	6.30	+0.20 / -0.00	16.40
R050065059RZ/U	50.00	+0.00 / -0.05					65.10	+0.06 / -0.00	6.30	+0.20 / -0.00	74.83
R052067059RZ*	52.00	+0.00 / -0.05					67.10	+0.07 / -0.00	6.30	+0.20 / -0.00	45.93
R055070059RZ	55.00	+0.00 / -0.05					70.10	+0.07 / -0.00	6.30	+0.20 / -0.00	27.36
R056066039RZ	56.00	+0.00 / -0.05					66.70	+0.07 / -0.00	4.20	+0.20 / -0.00	39.09
R056068042RZ	56.00	+0.00 / -0.05					68.60	+0.07 / -0.00	4.50	+0.20 / -0.00	27.36
R056071059RZ	56.00	+0.00 / -0.05					71.10	+0.07 / -0.00	6.30	+0.20 / -0.00	19.74
R060070039RZ	60.00	+0.00 / -0.05					70.70	+0.07 / -0.00	4.20	+0.20 / -0.00	20.85
R060075059RZ	60.00	+0.00 / -0.05					75.10	+0.07 / -0.00	6.30	+0.20 / -0.00	27.36
R063078059RZ	63.00	+0.00 / -0.05					78.10	+0.07 / -0.00	6.30	+0.20 / -0.00	22.58
R065075039RZ	65.00	+0.00 / -0.05					75.70	+0.07 / -0.00	4.20	+0.20 / -0.00	22.99
R065080059RZ	65.00	+0.00 / -0.06					80.10	+0.07 / -0.00	6.30	+0.20 / -0.00	26.37
R068083059RZ	68.00	+0.00 / -0.06					83.10	+0.07 / -0.00	6.30	+0.20 / -0.00	27.95
R070085059RZ	70.00	+0.00 / -0.06					85.10	+0.07 / -0.00	6.30	+0.20 / -0.00	30.64
R075090059RZ	75.00	+0.00 / -0.06					90.10	+0.07 / -0.00	6.30	+0.20 / -0.00	32.69
R080095059RZ	80.00	+0.00 / -0.09					95.10	+0.07 / -0.00	6.30	+0.20 / -0.00	35.23
R085100059RZ	85.00	+0.00 / -0.09					100.10	+0.09 / -0.00	6.30	+0.20 / -0.00	34.79
R085100059RZ/U*	85.00	+0.00 / -0.09					100.10	+0.09 / -0.00	6.30	+0.20 / -0.00	85.46
R090105059RZ	90.00	+0.00 / -0.09					105.10	+0.09 / -0.00	6.30	+0.20 / -0.00	38.26
R090105059RZ/U	90.00	+0.00 / -0.09					105.10	+0.09 / -0.00	6.30	+0.20 / -0.00	85.61
R095110059RZ	95.00	+0.00 / -0.09					110.10	+0.09 / -0.00	6.30	+0.20 / -0.00	39.49
R095110059RZ/U	95.00	+0.00 / -0.09					110.10	+0.09 / -0.00	6.30	+0.20 / -0.00	87.18
R095115076RZ	95.00	+0.00 / -0.09					115.50	+0.09 / -0.00	8.10	+0.20 / -0.00	49.35
R100115059RZ	100.00	+0.00 / -0.09					115.10	+0.09 / -0.00	6.30	+0.20 / -0.00	40.11
R105120059RZ	105.00	+0.00 / -0.13					120.10	+0.09 / -0.00	6.30	+0.20 / -0.00	45.64
R105120059RZ/U*	105.00	+0.00 / -0.13					120.10	+0.09 / -0.00	6.30	+0.20 / -0.00	88.74
R105125076RZ	105.00	+0.00 / -0.13					125.50	+0.09 / -0.00	8.10	+0.20 / -0.00	56.10
R110125059RZ	110.00	+0.00 / -0.13					125.10	+0.09 / -0.00	6.30	+0.20 / -0.00	47.64
R110125059RZ/U	110.00	+0.00 / -0.13					125.10	+0.09 / -0.00	6.30	+0.20 / -0.00	95.55
R110130076RZ	110.00	+0.00 / -0.13					130.50	+0.09 / -0.00	8.10	+0.20 / -0.00	85.56
R115130059RZ	115.00	+0.00 / -0.13					130.10	+0.09 / -0.00	6.30	+0.20 / -0.00	47.51
R120135059RZ	120.00	+0.00 / -0.13					135.10	+0.09 / -0.00	6.30	+0.20 / -0.00	47.73
R125140059RZ	125.00	+0.00 / -0.13					140.10	+0.10 / -0.00	6.30	+0.20 / -0.00	48.26
R125146076RZ	125.00	+0.00 / -0.13					146.00	+0.10 / -0.00	8.10	+0.20 / -0.00	68.01
R130145059RZ	130.00	+0.00 / -0.13					145.10	+0.10 / -0.00	6.30	+0.20 / -0.00	48.61
R130151076RZ	130.00	+0.00 / -0.13					151.00	+0.10 / -0.00	8.10	+0.20 / -0.00	64.43
R135150059RZ	135.00	+0.00 / -0.13					150.10	+0.10 / -0.00	6.30	+0.20 / -0.00	65.69
R140155059RZ	140.00	+0.00 / -0.13					155.10	+0.10 / -0.00	6.30	+0.20 / -0.00	48.75
R145160059RZ	145.00	+0.00 / -0.13					160.10	+0.10 / -0.00	6.30	+0.20 / -0.00	67.62
R150165059RZ	150.00	+0.00 / -0.13					165.10	+0.10 / -0.00	6.30	+0.20 / -0.00	51.85
R150171076RZ*	150.00	+0.00 / -0.13					171.00	+0.10 / -0.00	8.10	+0.20 / -0.00	79.59
R155170059RZ	155.00	+0.00 / -0.13					170.10	+0.10 / -0.00	6.30	+0.20 / -0.00	69.39
R160175059RZ	160.00	+0.00 / -0.13					175.10	+0.10 / -0.00	6.30	+0.20 / -0.00	53.37
R160181076RZ	160.00	+0.00 / -0.13					181.00	+0.10 / -0.00	8.10	+0.20 / -0.00	95.03

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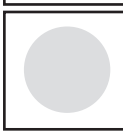
RZ SERIES - BR.PTFE/NBR

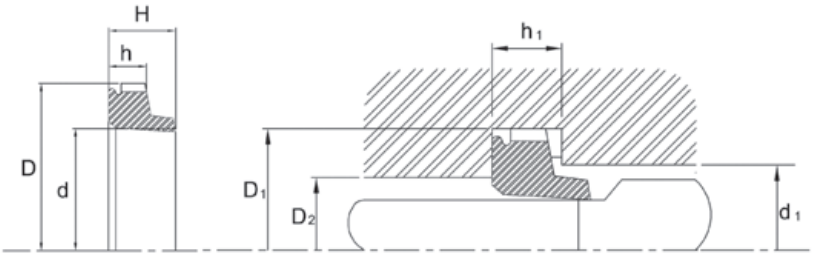
Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	d	D	H	EXP.	D1	Tol.	H1	Tol.	
R165180059RZ*	165.00	+0.00 / -0.13					180.10	+0.10 / -0.00	6.30	+0.20 / -0.00	95.16
R170185059RZ	170.00	+0.00 / -0.13					185.10	+0.10 / -0.00	6.30	+0.20 / -0.00	65.60
R170190076RZ*	170.00	+0.00 / -0.13					190.50	+0.10 / -0.00	8.10	+0.20 / -0.00	102.35
R180195059RZ	180.00	+0.00 / -0.13					195.10	+0.10 / -0.00	6.30	+0.20 / -0.00	109.27
R190205059RZ	190.00	+0.00 / -0.13					205.10	+0.12 / -0.00	6.30	+0.20 / -0.00	114.72
R200220076RZ	200.00	+0.00 / -0.13					220.50	+0.12 / -0.00	8.10	+0.20 / -0.00	116.96
R210230076RZ	210.00	+0.00 / -0.13					230.50	+0.12 / -0.00	8.10	+0.20 / -0.00	127.98
R220240076RZ	220.00	+0.00 / -0.13					240.50	+0.12 / -0.00	8.10	+0.20 / -0.00	128.26
R230250076RZ	230.00	+0.00 / -0.13					250.50	+0.12 / -0.00	8.10	+0.20 / -0.00	133.72
R240260076RZ*	240.00	+0.00 / -0.13					260.50	+0.12 / -0.00	8.10	+0.20 / -0.00	144.19
R250270076RZ	250.00	+0.00 / -0.13					270.50	+0.12 / -0.00	8.10	+0.20 / -0.00	174.49
R260284076RZ	260.00	+0.00 / -0.13					284.00	+0.13 / -0.00	8.10	+0.20 / -0.00	185.30
R270294076RZ	270.00	+0.00 / -0.13					294.00	+0.13 / -0.00	8.10	+0.20 / -0.00	196.09
R280304076RZ	280.00	+0.00 / -0.13					304.00	+0.13 / -0.00	8.10	+0.20 / -0.00	196.52
R290314076RZ*	290.00	+0.00 / -0.13					314.00	+0.13 / -0.00	8.10	+0.20 / -0.00	204.83
R300324076RZ	300.00	+0.00 / -0.13					324.00	+0.13 / -0.00	8.10	+0.20 / -0.00	212.68
R300324076RZ/N*	300.00	+0.00 / -0.13					324.00	+0.13 / -0.00	8.10	+0.20 / -0.00	109.93
R310334076RZ*	310.00	+0.00 / -0.13					334.00	+0.14 / -0.00	8.10	+0.20 / -0.00	247.49
R320344076RZ*	320.00	+0.00 / -0.13					344.00	+0.14 / -0.00	8.10	+0.20 / -0.00	260.63
R330354076RZ*	330.00	+0.00 / -0.13					354.00	+0.14 / -0.00	8.10	+0.20 / -0.00	268.22
R340364076RZ*	340.00	+0.00 / -0.13					364.00	+0.14 / -0.00	8.10	+0.20 / -0.00	283.10
R350374076RZ*	350.00	+0.00 / -0.13					374.00	+0.14 / -0.00	8.10	+0.20 / -0.00	293.38
R360384076RZ*	360.00	+0.00 / -0.13					384.00	+0.14 / -0.00	8.10	+0.20 / -0.00	304.37
R370394076RZ*	370.00	+0.00 / -0.13					394.00	+0.14 / -0.00	8.10	+0.20 / -0.00	313.64
R380404076RZ*	380.00	+0.00 / -0.13					404.00	+0.14 / -0.00	8.10	+0.20 / -0.00	316.57
R390414076RZ*	390.00	+0.00 / -0.13					414.00	+0.14 / -0.00	8.10	+0.20 / -0.00	324.92
R400424076RZ*	400.00	+0.00 / -0.13					424.00	+0.14 / -0.00	8.10	+0.20 / -0.00	339.45
R410434076RZ*	410.00	+0.00 / -0.13					434.00	+0.16 / -0.00	8.10	+0.20 / -0.00	348.46
R420444076RZ*	420.00	+0.00 / -0.13					444.00	+0.16 / -0.00	8.10	+0.20 / -0.00	361.75
R430454076RZ*	430.00	+0.00 / -0.13					454.00	+0.16 / -0.00	8.10	+0.20 / -0.00	370.18
R440464076RZ*	440.00	+0.00 / -0.13					464.00	+0.16 / -0.00	8.10	+0.20 / -0.00	377.03
R450474076RZ*	450.00	+0.00 / -0.13					474.00	+0.16 / -0.00	8.10	+0.20 / -0.00	378.81
R460484076RZ*	460.00	+0.00 / -0.13					484.00	+0.16 / -0.00	8.10	+0.20 / -0.00	379.72
R470494076RZ*	470.00	+0.00 / -0.13					494.00	+0.16 / -0.00	8.10	+0.20 / -0.00	419.13
R480504076RZ*	480.00	+0.00 / -0.13					504.00	+0.16 / -0.00	8.10	+0.20 / -0.00	452.54
R490514076RZ*	490.00	+0.00 / -0.13					514.00	+0.16 / -0.00	8.10	+0.20 / -0.00	495.07
R500524076RZ*	500.00	+0.00 / -0.13					524.00	+0.16 / -0.00	8.10	+0.20 / -0.00	510.39
R520544076RZ*	520.00	+0.00 / -0.13					544.00	+0.16 / -0.00	8.10	+0.20 / -0.00	513.72

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



R5 - Cushion Seals

Nitrile NBR 89A



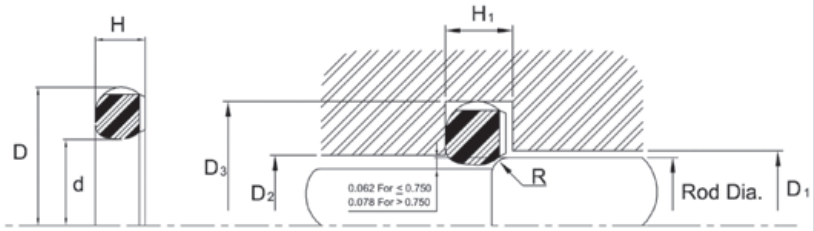
Temperature: -4/176F [-20/80C] **Pressure: 232 PSI [16 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions				Housing Dimensions								$
		Tol.	d	D	h	H	d1	Tol.	D1	Tol.	D2	Tol.	h1	Tol.	
R004008026R5*	4.50	+0.00 / -0.04	4.50	8.00	2.60	3.50	6.50	+0.07 / -0.00	8.00	+0.09 / -0.00	5.00	+0.08 / -0.00	3.10	+0.10 / -0.10	O/R
R005009032R5*	5.00	+0.00 / -0.04	5.00	9.00	3.20	4.10	7.00	+0.07 / -0.00	9.00	+0.09 / -0.00	5.50	+0.08 / -0.00	3.70	+0.10 / -0.10	O/R
R006010032R5*	6.00	+0.00 / -0.04	6.00	10.00	3.20	4.10	8.00	+0.09 / -0.00	10.00	+0.09 / -0.00	6.50	+0.09 / -0.00	3.70	+0.10 / -0.10	6.74
R008011028R5*	8.00	+0.00 / -0.04	8.00	11.60	2.80	3.50	10.00	+0.09 / -0.00	11.60	+0.09 / -0.00	8.50	+0.09 / -0.00	3.30	+0.10 / -0.10	6.95
R009015037R5*	9.50	+0.00 / -0.04	9.50	15.00	3.70	4.60	12.00	+0.09 / -0.00	15.00	+0.09 / -0.00	10.00	+0.11 / -0.00	4.50	+0.10 / -0.10	7.15
R010018063R5*	10.00	+0.00 / -0.04	10.00	18.00	6.30	7.80	13.00	+0.11 / -0.00	18.00	+0.11 / -0.00	10.50	+0.11 / -0.00	7.00	+0.10 / -0.10	7.50
R012018041R5*	12.00	+0.00 / -0.04	12.00	18.00	4.10	5.00	15.50	+0.11 / -0.00	18.00	+0.11 / -0.00	13.00	+0.11 / -0.00	4.80	+0.10 / -0.10	7.92
R012020063R5*	12.00	+0.00 / -0.04	12.00	20.00	6.30	7.80	17.00	+0.11 / -0.00	20.00	+0.11 / -0.00	13.00	+0.11 / -0.00	7.00	+0.10 / -0.10	8.13
R014022045R5*	14.00	+0.00 / -0.04	14.00	22.00	4.50	5.50	18.50	+0.11 / -0.00	22.00	+0.11 / -0.00	15.00	+0.11 / -0.00	5.20	+0.10 / -0.10	O/R
R014022063R5*	14.00	+0.00 / -0.04	14.00	22.00	6.30	7.80	19.00	+0.11 / -0.00	22.00	+0.11 / -0.00	15.00	+0.11 / -0.00	7.00	+0.10 / -0.10	8.47
R016022045R5*	16.00	+0.00 / -0.04	16.00	22.00	4.50	5.50	19.50	+0.11 / -0.00	22.00	+0.11 / -0.00	17.00	+0.11 / -0.00	5.20	+0.10 / -0.10	8.61
R016024063R5*	16.00	+0.00 / -0.04	16.00	24.00	6.30	7.80	21.00	+0.11 / -0.00	24.00	+0.11 / -0.00	17.00	+0.11 / -0.00	7.00	+0.10 / -0.10	8.82
R018026063R5*	18.00	+0.00 / -0.04	18.00	26.00	6.30	7.80	23.00	+0.13 / -0.00	26.00	+0.13 / -0.00	19.00	+0.13 / -0.00	7.00	+0.10 / -0.10	9.24
R020028063R5*	20.00	+0.00 / -0.04	20.00	28.00	6.30	7.80	24.00	+0.13 / -0.00	28.00	+0.13 / -0.00	21.00	+0.13 / -0.00	7.00	+0.10 / -0.10	9.65
R022030063R5*	22.00	+0.00 / -0.04	22.00	30.00	6.30	7.80	26.00	+0.13 / -0.00	30.00	+0.13 / -0.00	23.00	+0.13 / -0.00	7.00	+0.10 / -0.10	10.28
R025033063R5*	25.00	+0.00 / -0.04	25.00	33.00	6.30	7.80	29.00	+0.13 / -0.00	33.00	+0.13 / -0.00	26.00	+0.13 / -0.00	7.00	+0.10 / -0.10	10.63
R028036063R5*	28.00	+0.00 / -0.04	28.00	36.00	6.30	7.80	32.00	+0.13 / -0.00	36.00	+0.13 / -0.00	29.00	+0.13 / -0.00	7.00	+0.10 / -0.10	11.53
R030040062R5*	30.00	+0.00 / -0.04	30.00	40.00	6.20	7.80	35.00	+0.16 / -0.00	40.00	+0.16 / -0.00	31.50	+0.16 / -0.00	7.00	+0.10 / -0.10	11.81
R032042062R5*	32.00	+0.00 / -0.04	32.00	42.00	6.20	7.80	37.00	+0.16 / -0.00	42.00	+0.16 / -0.00	33.50	+0.16 / -0.00	7.00	+0.10 / -0.10	12.36
R036046062R5*	36.00	+0.00 / -0.04	36.00	46.00	6.20	7.80	41.00	+0.16 / -0.00	46.00	+0.16 / -0.00	37.50	+0.16 / -0.00	7.00	+0.10 / -0.10	13.34
R040050062R5*	40.00	+0.00 / -0.05	40.00	50.00	6.20	7.80	45.00	+0.16 / -0.00	50.00	+0.16 / -0.00	41.50	+0.16 / -0.00	7.00	+0.10 / -0.10	13.89
R050060062R5*	50.00	+0.00 / -0.05	50.00	60.00	6.20	7.80	55.00	+0.16 / -0.00	60.00	+0.16 / -0.00	51.50	+0.19 / -0.00	7.00	+0.10 / -0.10	14.52
R050067110R5*	50.00	+0.00 / -0.05	50.00	67.00	11.00	11.00	58.00	+0.16 / -0.00	67.00	+0.19 / -0.00	53.00	+0.19 / -0.00	12.50	+0.10 / -0.10	O/R
R057074110R5*	57.00	+0.00 / -0.05	57.00	74.00	11.00	11.00	65.00	+0.19 / -0.00	74.00	+0.19 / -0.00	60.00	+0.19 / -0.00	12.50	+0.10 / -0.10	22.92
R070087110R5*	70.00	+0.00 / -0.06	70.00	87.00	11.00	11.00	78.00	+0.19 / -0.00	87.00	+0.19 / -0.00	73.00	+0.19 / -0.00	12.50	+0.10 / -0.10	O/R
R078095110R5*	78.00	+0.00 / -0.09	78.00	95.00	11.00	11.00	86.00	+0.22 / -0.00	95.00	+0.22 / -0.00	81.00	+0.22 / -0.00	12.50	+0.10 / -0.10	51.33

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

R6 - Cushion Seals

Polyurethane AU 93A



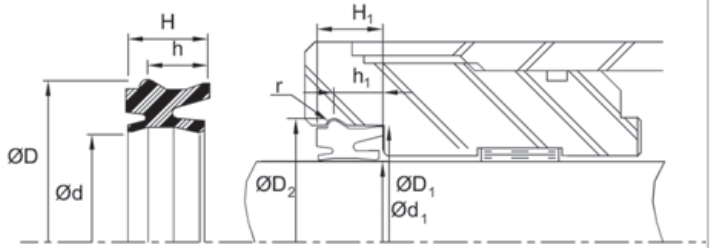
Temperature: -50/180F [-45/80C] **Pressure: 230 PSI [15 BAR]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions									$
		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	+0.09 / -0.00	18.00	+0.11 / -0.00	4.80	+0.20 / -0.20	3.00	25.69
R012020040R6*	12.00	+0.00 / -0.04	12.00	20.00	4.00	14.00	+0.11 / -0.00	12.50	+0.11 / -0.00	20.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	12.49
R014022040R6*	14.00	+0.00 / -0.04	14.00	22.00	4.00	16.00	+0.11 / -0.00	14.50	+0.11 / -0.00	22.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	13.09
R016024040R6	16.00	+0.00 / -0.04	16.00	24.00	4.00	18.00	+0.11 / -0.00	16.50	+0.11 / -0.00	24.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	13.86
R018026040R6*	18.00	+0.00 / -0.04	18.00	26.00	4.00	20.00	+0.13 / -0.00	18.50	+0.13 / -0.00	26.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	14.63
R020028040R6*	20.00	+0.00 / -0.04	20.00	28.00	4.00	22.00	+0.13 / -0.00	20.50	+0.13 / -0.00	28.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	15.07
R022030040R6	22.00	+0.00 / -0.04	22.00	30.00	4.00	24.00	+0.13 / -0.00	22.50	+0.13 / -0.00	30.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	15.35
R024032040R6*	24.00	+0.00 / -0.04	24.00	32.00	4.00	26.00	+0.13 / -0.00	24.50	+0.13 / -0.00	32.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	15.79
R025033040R6*	25.00	+0.00 / -0.04	25.00	33.00	4.00	27.00	+0.13 / -0.00	25.50	+0.13 / -0.00	33.00	+0.13 / -0.00	4.80	+0.20 / -0.20	3.00	16.45
R026036050R6*	26.00	+0.00 / -0.04	26.00	36.00	5.00	28.00	+0.13 / -0.00	26.60	+0.13 / -0.00	36.00	+0.13 / -0.00	6.00	+0.20 / -0.20	3.00	16.89
R028038050R6	28.00	+0.00 / -0.04	28.00	38.00	5.00	30.00	+0.13 / -0.00	28.60	+0.13 / -0.00	38.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	17.33
R030040050R6*	30.00	+0.00 / -0.04	30.00	40.00	5.00	32.00	+0.16 / -0.00	30.60	+0.16 / -0.00	40.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	17.88
R032042050R6*	32.00	+0.00 / -0.04	32.00	42.00	5.00	34.00	+0.16 / -0.00	32.60	+0.16 / -0.00	42.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	18.43
R034044050R6*	34.00	+0.00 / -0.04	34.00	44.00	5.00	36.00	+0.16 / -0.00	34.60	+0.16 / -0.00	44.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	18.81
R035045050R6*	35.00	+0.00 / -0.04	35.00	45.00	5.00	37.00	+0.16 / -0.00	35.60	+0.16 / -0.00	45.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	19.14
R036046050R6*	36.00	+0.00 / -0.04	36.00	46.00	5.00	38.00	+0.16 / -0.00	36.60	+0.16 / -0.00	46.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	19.64
R038048050R6	38.00	+0.00 / -0.04	38.00	48.00	5.00	40.00	+0.16 / -0.00	38.60	+0.16 / -0.00	48.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	20.19
R040050050R6*	40.00	+0.00 / -0.05	40.00	50.00	5.00	42.00	+0.16 / -0.00	40.60	+0.19 / -0.00	50.00	+0.16 / -0.00	6.00	+0.20 / -0.20	4.00	20.79
R045055050R6*	45.00	+0.00 / -0.05	45.00	55.00	5.00	47.00	+0.16 / -0.00	45.60	+0.19 / -0.00	55.00	+0.19 / -0.00	6.00	+0.20 / -0.20	4.00	21.07
R050060050R6	50.00	+0.00 / -0.05	50.00	60.00	5.00	52.00	+0.19 / -0.00	50.60	+0.19 / -0.00	60.00	+0.19 / -0.00	6.00	+0.20 / -0.20	4.00	21.40
R055069070R6*	55.00	+0.00 / -0.05	55.00	69.00	7.00	58.00	+0.19 / -0.00	55.60	+0.19 / -0.00	69.00	+0.19 / -0.00	8.40	+0.20 / -0.20	5.00	21.89
R060074070R6	60.00	+0.00 / -0.05	60.00	74.00	7.00	63.00	+0.19 / -0.00	60.60	+0.19 / -0.00	74.00	+0.19 / -0.00	8.40	+0.20 / -0.20	5.00	22.17
R063077070R6*	63.00	+0.00 / -0.05	63.00	77.00	7.00	66.00	+0.19 / -0.00	63.60	+0.19 / -0.00	77.00	+0.19 / -0.00	8.40	+0.20 / -0.20	5.00	46.53
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	42.85
R070084070R6*	70.00	+0.00 / -0.06	70.00	84.00	7.00	73.00	+0.19 / -0.00	70.60	+0.19 / -0.00	84.00	+0.22 / -0.00	8.40	+0.20 / -0.20	5.00	45.21
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	+0.22 / -0.00	8.40	+0.20 / -0.20	5.00	47.08
R100114070R6*	100.00	+0.00 / -0.09	100.00	114.00	7.00	103.00	+0.22 / -0.00	100.60	+0.22 / -0.00	114.00	+0.22 / -0.00	8.40	+0.20 / -0.20	5.00	47.80
R110124070R6*	110.00	+0.00 / -0.13	110.00	124.00	7.00	113.00	+0.22 / -0.00	110.60	+0.22 / -0.00	124.00	+0.22 / -0.00	8.40	+0.20 / -0.20	5.00	49.01

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

R8 - Rod Wiper Seals

Polyurethane

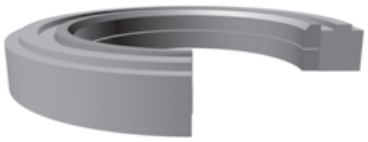


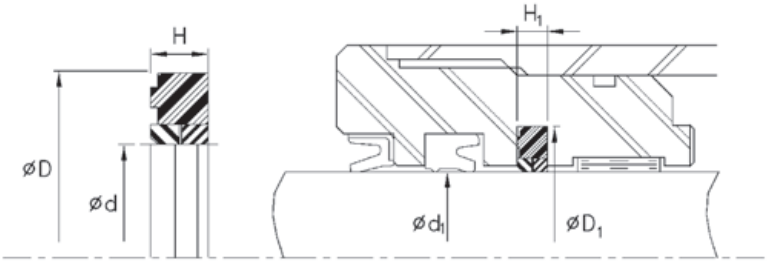
Temperature: -22/176F [-30/80C] **Pressure: 232 PSI [16 Bar]**

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 / -0.00	1.10	7.13
R016026104R8	16.00	+0.00 / -0.04	16.00	26.00	7.00	10.40	26.00	+0.10 / -0.10	28.20	+0.10 / -0.10	13.00	+0.50 / -0.00	7.50	+0.25 / -0.00	1.10	7.29
R018028104R8*	18.00	+0.00 / -0.04	18.00	28.00	7.00	10.40	28.00	+0.10 / -0.10	30.00	+0.10 / -0.10	13.00	+0.50 / -0.00	7.50	+0.25 / -0.00	1.10	7.51
R020030104R8	20.00	+0.00 / -0.04	20.00	30.00	7.00	10.40	30.00	+0.10 / -0.10	32.20	+0.10 / -0.10	13.00	+0.50 / -0.00	7.50	+0.25 / -0.00	1.10	8.17
R025035104R8*	25.00	+0.00 / -0.04	25.00	35.00	7.30	10.40	35.00	+0.10 / -0.10	37.80	+0.10 / -0.10	13.00	+0.50 / -0.00	8.00	+0.25 / -0.00	1.40	8.74
R032042104R8	32.00	+0.00 / -0.04	32.00	42.00	7.30	10.40	42.00	+0.10 / -0.10	44.80	+0.10 / -0.10	13.00	+0.50 / -0.00	8.00	+0.25 / -0.00	1.40	9.54
R040050104R8	40.00	+0.00 / -0.04	40.00	50.00	7.30	10.40	50.00	+0.10 / -0.10	52.80	+0.10 / -0.10	13.00	+0.50 / -0.00	8.00	+0.25 / -0.00	1.40	13.10
R050060104R8*	50.00	+0.00 / -0.04	50.00	60.00	7.70	10.40	60.00	+0.10 / -0.10	63.60	+0.10 / -0.10	13.00	+0.50 / -0.00	8.50	+0.25 / -0.00	1.78	14.29

R12 - Buffer Seals

Nylon/PTFE/Nitrile





Temperature: -40/220F [-40/104C] **Pressure: 5000 PSI [345 Bar]**

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	27.45
R045060059R12*	45.00	+0.00 / -0.05	45.00	60.50	5.90	45.00	+0.00 / -0.05	60.50	+0.19 / -0.00	6.30	+0.20 / -0.00	29.48
R050065059R12*	50.00	+0.00 / -0.05	50.00	65.50	5.90	50.00	+0.00 / -0.05	65.50	+0.19 / -0.00	6.30	+0.20 / -0.00	30.65
R055070059R12*	55.00	+0.00 / -0.05	55.00	70.50	5.90	55.00	+0.00 / -0.05	70.50	+0.19 / -0.00	6.30	+0.20 / -0.00	31.78
R060075059R12*	60.00	+0.00 / -0.05	60.00	75.50	5.90	60.00	+0.00 / -0.05	75.50	+0.19 / -0.00	6.30	+0.20 / -0.00	34.24
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	+0.20 / -0.00	36.66
R070085059R12*	70.00	+0.00 / -0.06	70.00	85.50	5.90	70.00	+0.00 / -0.06	85.50	+0.22 / -0.00	6.30	+0.20 / -0.00	39.08
R075090059R12*	75.00	+0.00 / -0.06	75.00	90.50	5.90	75.00	+0.00 / -0.06	90.50	+0.22 / -0.00	6.30	+0.20 / -0.00	41.54
R080095059R12*	80.00	+0.00 / -0.09	80.00	95.50	5.90	80.00	+0.00 / -0.09	95.50	+0.22 / -0.00	6.30	+0.20 / -0.00	44.00
R085100059R12*	85.00	+0.00 / -0.09	85.00	100.50	5.90	85.00	+0.00 / -0.09	100.50	+0.22 / -0.00	6.30	+0.20 / -0.00	46.44
R090105059R12*	90.00	+0.00 / -0.09	90.00	105.50	5.90	90.00	+0.00 / -0.09	105.50	+0.22 / -0.00	6.30	+0.20 / -0.00	48.87

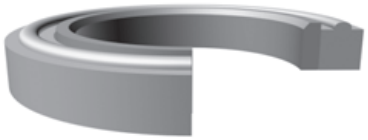
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

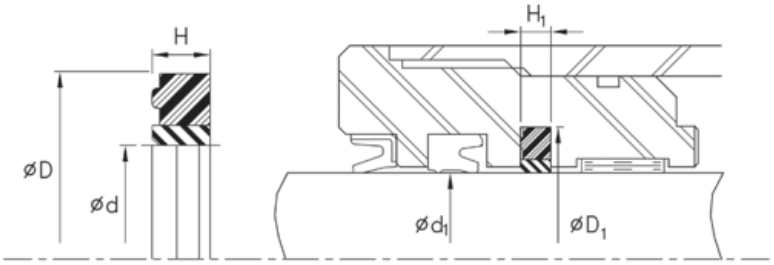
R12 SERIES - NYLON/PTFE/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R095110059R12*	95.00	+0.00 / -0.09	95.00	110.50	5.90	95.00	+0.00 / -0.09	110.50	+0.22 / -0.00	6.30	+0.20 / -0.00	51.29
R100115059R12*	100.00	+0.00 / -0.09	100.00	115.50	5.90	100.00	+0.00 / -0.09	115.50	+0.22 / -0.00	6.30	+0.20 / -0.00	56.18
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	+0.20 / -0.00	58.62
R110125059R12*	110.00	+0.00 / -0.13	110.00	125.50	5.90	110.00	+0.00 / -0.13	125.50	+0.25 / -0.00	6.30	+0.20 / -0.00	61.11
R115130059R12*	115.00	+0.00 / -0.13	115.00	130.50	5.90	115.00	+0.00 / -0.13	130.50	+0.25 / -0.00	6.30	+0.20 / -0.00	63.53
R120135059R12*	120.00	+0.00 / -0.13	120.00	135.50	5.90	120.00	+0.00 / -0.13	135.50	+0.25 / -0.00	6.30	+0.20 / -0.00	67.26
R125140059R12*	125.00	+0.00 / -0.13	125.00	140.50	5.90	125.00	+0.00 / -0.13	140.50	+0.25 / -0.00	6.30	+0.20 / -0.00	67.52
R130145059R12*	130.00	+0.00 / -0.13	130.00	145.50	5.90	130.00	+0.00 / -0.13	145.50	+0.25 / -0.00	6.30	+0.20 / -0.00	73.99
R135150059R12*	135.00	+0.00 / -0.13	135.00	150.50	5.90	135.00	+0.00 / -0.13	150.50	+0.25 / -0.00	6.30	+0.20 / -0.00	78.89
R140155059R12*	140.00	+0.00 / -0.13	140.00	155.50	5.90	140.00	+0.00 / -0.13	155.50	+0.25 / -0.00	6.30	+0.20 / -0.00	85.52
R150165059R12*	150.00	+0.00 / -0.13	150.00	165.50	5.90	150.00	+0.00 / -0.13	165.50	+0.25 / -0.00	6.30	+0.20 / -0.00	79.38
R160175059R12*	160.00	+0.00 / -0.13	160.00	175.50	5.90	160.00	+0.00 / -0.13	175.50	+0.25 / -0.00	6.30	+0.20 / -0.00	86.72
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	93.35
R180195059R12*	180.00	+0.00 / -0.13	180.00	195.50	5.90	180.00	+0.00 / -0.13	195.50	+0.29 / -0.00	6.30	+0.20 / -0.00	102.34

R14 - Buffer Seals

BR.PTFE/NBR





Temperature: -40/220F [-40/104C] **Pressure: 5000 PSI [345 Bar]**

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	10.82
R045060059R14*	45.00	+0.00 / -0.05	45.00	60.50	5.90	45.00	+0.00 / -0.05	60.50	+0.19 / -0.00	6.30	+0.20 / -0.00	11.66
R050065059R14*	50.00	+0.00 / -0.05	50.00	65.50	5.90	50.00	+0.00 / -0.05	65.50	+0.19 / -0.00	6.30	+0.20 / -0.00	17.26
R055070059R14*	55.00	+0.00 / -0.05	55.00	70.50	5.90	55.00	+0.00 / -0.05	70.50	+0.19 / -0.00	6.30	+0.20 / -0.00	22.06
R060075059R14*	60.00	+0.00 / -0.05	60.00	75.50	5.90	60.00	+0.00 / -0.05	75.50	+0.19 / -0.00	6.30	+0.20 / -0.00	23.84
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	+0.20 / -0.00	25.52
R070085059R14*	70.00	+0.00 / -0.06	70.00	85.50	5.90	70.00	+0.00 / -0.06	85.50	+0.22 / -0.00	6.30	+0.20 / -0.00	27.25
R075090059R14*	75.00	+0.00 / -0.06	75.00	90.50	5.90	75.00	+0.00 / -0.06	90.50	+0.22 / -0.00	6.30	+0.20 / -0.00	28.96
R080095059R14*	80.00	+0.00 / -0.09	80.00	95.50	5.90	80.00	+0.00 / -0.09	95.50	+0.22 / -0.00	6.30	+0.20 / -0.00	30.64
R085100059R14*	85.00	+0.00 / -0.09	85.00	100.50	5.90	85.00	+0.00 / -0.09	100.50	+0.22 / -0.00	6.30	+0.20 / -0.00	32.34
R090105059R14*	90.00	+0.00 / -0.09	90.00	105.50	5.90	90.00	+0.00 / -0.09	105.50	+0.22 / -0.00	6.30	+0.20 / -0.00	34.04
R095110059R14*	95.00	+0.00 / -0.09	95.00	110.50	5.90	95.00	+0.00 / -0.09	110.50	+0.22 / -0.00	6.30	+0.20 / -0.00	35.79
R100115059R14*	100.00	+0.00 / -0.09	100.00	115.50	5.90	100.00	+0.00 / -0.09	115.50	+0.22 / -0.00	6.30	+0.20 / -0.00	39.15
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	+0.20 / -0.00	40.90
R110125059R14*	110.00	+0.00 / -0.13	110.00	125.50	5.90	110.00	+0.00 / -0.13	125.50	+0.25 / -0.00	6.30	+0.20 / -0.00	42.60
R115130059R14*	115.00	+0.00 / -0.13	115.00	130.50	5.90	115.00	+0.00 / -0.13	130.50	+0.25 / -0.00	6.30	+0.20 / -0.00	27.41

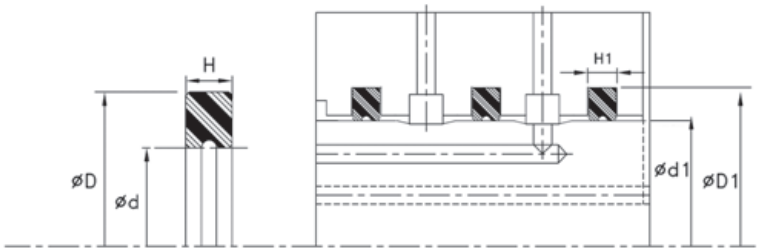
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

R14 SERIES - BR.PTFE/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R120135059R14*	120.00	+0.00 / -0.13	120.00	135.50	5.90	120.00	+0.00 / -0.13	135.50	+0.25 / -0.00	6.30	+0.20 / -0.00	44.29
R125140059R14*	125.00	+0.00 / -0.13	125.00	140.50	5.90	125.00	+0.00 / -0.13	140.50	+0.25 / -0.00	6.30	+0.20 / -0.00	30.11
R130145059R14	130.00	+0.00 / -0.13	130.00	145.50	5.90	130.00	+0.00 / -0.13	145.50	+0.25 / -0.00	6.30	+0.20 / -0.00	30.83
R135150059R14*	135.00	+0.00 / -0.13	135.00	150.50	5.90	135.00	+0.00 / -0.13	150.50	+0.25 / -0.00	6.30	+0.20 / -0.00	38.05
R140155059R14	140.00	+0.00 / -0.13	140.00	155.50	5.90	140.00	+0.00 / -0.13	155.50	+0.25 / -0.00	6.30	+0.20 / -0.00	194.01
R145160059R14*	145.00	+0.00 / -0.13	145.00	160.50	5.90	145.00	+0.00 / -0.13	160.50	+0.25 / -0.00	6.30	+0.20 / -0.00	202.52
R150165059R14*	150.00	+0.00 / -0.13	150.00	165.50	5.90	150.00	+0.00 / -0.13	165.50	+0.25 / -0.00	6.30	+0.20 / -0.00	208.56
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	+0.00 / -0.13	160.00	175.50	5.90	160.00	+0.00 / -0.13	175.50	+0.25 / -0.00	6.30	+0.20 / -0.00	218.96
R165180059R14*	165.00	+0.00 / -0.13	165.00	180.50	5.90	165.00	+0.00 / -0.13	180.50	+0.29 / -0.00	6.30	+0.20 / -0.00	225.88
R170185059R14*	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	235.27
R180200076R14	180.00	+0.00 / -0.13	180.00	200.00	7.60	180.00	+0.00 / -0.13	200.50	+0.29 / -0.00	8.10	+0.20 / -0.00	250.15
R200220076R14	200.00	+0.00 / -0.13	200.00	220.00	7.60	200.00	+0.00 / -0.13	220.50	+0.29 / -0.00	8.10	+0.20 / -0.00	275.11
R210230076R14	210.00	+0.00 / -0.13	210.00	230.00	7.60	210.00	+0.00 / -0.13	230.50	+0.29 / -0.00	8.10	+0.20 / -0.00	297.35
R220240076R14	220.00	+0.00 / -0.13	220.00	240.00	7.60	220.00	+0.00 / -0.13	240.50	+0.29 / -0.00	8.10	+0.20 / -0.00	300.06
R230250076R14	230.00	+0.00 / -0.13	230.00	250.00	7.60	230.00	+0.00 / -0.13	250.50	+0.29 / -0.00	8.10	+0.20 / -0.00	312.54
R250270076R14	250.00	+0.00 / -0.13	250.00	270.00	7.60	250.00	+0.00 / -0.13	270.50	+0.29 / -0.00	8.10	+0.20 / -0.00	339.62
R260287089R14	260.00	+0.00 / -0.13	260.00	287.30	8.90	260.00	+0.00 / -0.13	287.30	+0.29 / -0.00	9.50	+0.20 / -0.00	358.45

R19 - Rod Seals

Polyurethane AU 94A



Temperature: -22/176F [-30/80C] **Pressure: 5000 PSI [343 Bar]**

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	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	O/R
R070080053R19*	70.00	+0.00 / -0.06	70.50	81.00	4.90	70.00	+0.00 / -0.06	80.00	+0.12 / -0.00	5.30	+0.30 / -0.00	30.89
R075085053R19*	75.00	+0.00 / -0.06	75.30	85.80	4.90	75.00	+0.00 / -0.06	85.00	+0.14 / -0.00	5.30	+0.30 / -0.00	32.27
R080091053R19	80.00	+0.00 / -0.09	80.50	91.00	4.90	80.00	+0.00 / -0.09	90.00	+0.14 / -0.00	5.30	+0.30 / -0.00	31.83
R085096053R19*	85.00	+0.00 / -0.09	85.50	96.00	4.90	85.00	+0.00 / -0.09	95.00	+0.14 / -0.00	5.30	+0.30 / -0.00	35.13
R090101053R19	90.00	+0.00 / -0.09	90.50	101.00	4.90	90.00	+0.00 / -0.09	100.00	+0.14 / -0.00	5.30	+0.30 / -0.00	37.43
R095106053R19	95.00	+0.00 / -0.09	95.50	106.00	4.90	95.00	+0.00 / -0.09	105.00	+0.14 / -0.00	5.30	+0.30 / -0.00	37.81
R100111053R19	100.00	+0.00 / -0.09	100.50	111.00	4.90	100.00	+0.00 / -0.09	110.00	+0.14 / -0.00	5.30	+0.30 / -0.00	45.15
R105116053R19*	105.00	+0.00 / -0.13	105.50	116.00	4.90	105.00	+0.00 / -0.13	115.00	+0.14 / -0.00	5.30	+0.30 / -0.00	39.14
R110121053R19*	110.00	+0.00 / -0.13	110.50	121.00	4.90	110.00	+0.00 / -0.13	120.00	+0.14 / -0.00	5.30	+0.30 / -0.00	38.76
R115126053R19*	115.00	+0.00 / -0.13	115.50	126.00	4.90	115.00	+0.00 / -0.13	125.00	+0.16 / -0.00	5.30	+0.30 / -0.00	39.08
R120131053R19	120.00	+0.00 / -0.13	120.50	131.00	4.90	120.00	+0.00 / -0.13	130.00	+0.16 / -0.00	5.30	+0.30 / -0.00	39.44

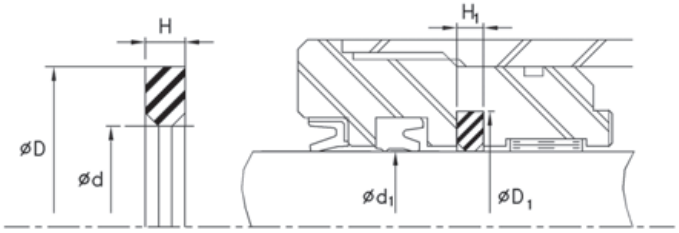
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

R19 SERIES - AU 94A

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R125136053R19	125.00	+0.00 / -0.13	125.50	136.00	4.90	125.00	+0.00 / -0.13	135.00	+0.16 / -0.00	5.30	+0.30 / -0.00	49.54
R130141053R19*	130.00	+0.00 / -0.13	131.10	141.60	4.90	130.00	+0.00 / -0.13	140.00	+0.16 / -0.00	5.30	+0.30 / -0.00	51.36
R135146053R19*	135.00	+0.00 / -0.13	136.10	146.60	4.90	135.00	+0.00 / -0.13	145.00	+0.16 / -0.00	5.30	+0.30 / -0.00	53.37
R140151053R19*	140.00	+0.00 / -0.13	141.10	151.60	4.90	140.00	+0.00 / -0.13	150.00	+0.16 / -0.00	5.30	+0.30 / -0.00	57.07
R145156053R19*	145.00	+0.00 / -0.13	146.10	156.60	4.90	145.00	+0.00 / -0.13	155.00	+0.16 / -0.00	5.30	+0.30 / -0.00	58.69
R150161053R19*	150.00	+0.00 / -0.13	151.10	161.60	4.90	150.00	+0.00 / -0.13	160.00	+0.16 / -0.00	5.30	+0.30 / -0.00	60.90
R155166053R19*	155.00	+0.00 / -0.13	156.10	166.60	4.90	155.00	+0.00 / -0.13	165.00	+0.16 / -0.00	5.30	+0.30 / -0.00	62.46
R160171053R19*	160.00	+0.00 / -0.13	161.10	171.60	4.90	160.00	+0.00 / -0.13	170.00	+0.16 / -0.00	5.30	+0.30 / -0.00	64.60

R20 - Rod Seals

Polyurethane AU 92A



Temperature: -40/250F [-40/121C] **Pressure: 5000 PSI [343 Bar]**

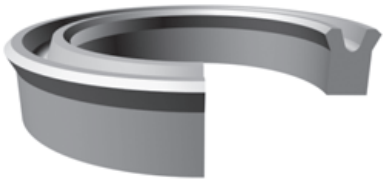
Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
R025033023R20*	25.00		25.00	33.60	2.30							16.70
R030041029R20*	30.00		30.00	41.00	2.90							17.92
R035046029R20*	35.00		35.00	46.00	2.90							16.21
R035048030R20*	35.00		35.00	48.00	3.00							16.85
R040048030R20	40.00		40.00	48.00	3.00							16.37
R050058029R20	50.00		50.00	58.00	2.90							16.79
R050062030R20*	50.00		50.00	62.00	3.00							17.87
R050063040R20	50.00		50.00	62.60	4.00							17.90
R056068040R20*	56.00		56.00	68.60	4.00							22.82
R056070030R20	56.00		56.00	70.00	3.00							21.42
R056073048R20	56.00		56.00	73.00	4.80							23.56
R063080047R20	63.00		63.00	80.00	4.70							25.32
R065078040R20*	65.00		65.00	78.00	4.00							24.60
R070083040R20*	70.00		70.00	83.00	4.00							26.13
R070084030R20*	70.00		70.00	84.00	3.00							22.06
R075088040R20*	75.00		75.00	88.00	4.00							23.49
R080093040R20*	80.00		80.00	93.00	4.00							25.56
R090104040R20*	90.00		90.00	104.00	4.00							25.64
R100113040R20*	100.00		100.00	113.00	4.00							28.20

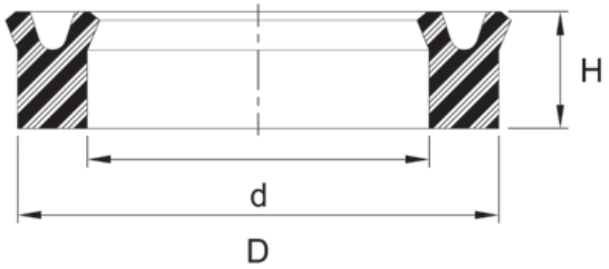
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	A	K	2
	B	K	14

A - Rod/Piston Seals

Polyurethane AU 92A





Temperature: -22/212F [-30/100C]

Pressure: 5000 PSI [345 Bar]

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP003008035A*	3.00	8.00	3.50	2.29
RP003010060A*	3.00	10.00	6.00	2.79
RP004010040A	4.00	10.00	4.00	3.22
RP004010045A*	4.00	10.00	4.50	3.22
RP004010060A*	4.00	10.00	6.00	2.92
RP004011050A*	4.00	11.00	5.00	2.86
RP004012040A	4.00	12.00	4.00	2.86
RP004012055A*	4.00	12.00	5.50	2.79
RP004009040A*	4.50	9.50	4.00	2.86
RP004011050A*	4.50	11.00	5.00	2.86
RP004012045A*	4.50	12.50	4.50	3.49
RP005010040A*	5.00	10.00	4.00	2.79
RP005010050A*	5.00	10.00	5.00	2.79
RP005011050A*	5.00	11.00	5.00	8.03
RP005011070A*	5.00	11.00	7.00	2.79
RP005011080A*	5.00	11.00	8.00	2.86
RP005012050A	5.00	12.00	5.00	2.79
RP005012055A*	5.00	12.00	5.50	4.55
RP005012060A	5.00	12.00	6.00	3.07
RP005012080A*	5.00	12.00	8.00	2.86
RP005014045A*	5.00	14.00	4.50	2.86
RP005014060A	5.00	14.00	6.00	2.86
RP005014080A*	5.00	14.00	8.00	14.03
RP005016060A*	5.00	16.00	6.00	2.86
RP005016080A*	5.00	16.00	8.00	3.14
RP006010030A*	6.00	10.00	3.00	2.79
RP006012040A*	6.00	12.00	4.00	3.73
RP006012050A*	6.00	12.00	5.00	2.86
RP006012055A	6.00	12.00	5.50	2.86
RP006012060A	6.00	12.00	6.00	3.73
RP006012070A*	6.00	12.00	7.00	3.05
RP006012080A*	6.00	12.00	8.00	5.31
RP006013050A*	6.00	13.00	5.00	3.30
RP006013080A	6.00	13.00	8.00	13.10
RP006013050A-1*	6.00	13.50	5.00	2.86
RP006014040A*	6.00	14.00	4.00	3.05
RP006014050A*	6.00	14.00	5.00	2.86
RP006014060A	6.00	14.00	6.00	2.86

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP006014080A*	6.00	14.00	8.00	2.86
RP006015050A*	6.00	15.00	5.00	3.30
RP006015060A*	6.00	15.00	6.00	2.86
RP006015080A	6.00	15.00	8.00	6.57
RP006016050A*	6.00	16.00	5.00	3.43
RP006016060A*	6.00	16.00	6.00	3.30
RP006016080A*	6.00	16.00	8.00	2.99
RP006018080A*	6.00	18.00	8.00	3.43
RP006020080A*	6.00	20.00	8.00	5.21
RP006016080A-1*	6.30	16.30	8.00	3.08
RP007013035A*	7.00	13.00	3.50	2.92
RP007014070A*	7.00	14.00	7.00	3.43
RP007015050A*	7.00	15.00	5.00	3.30
RP007015070A*	7.00	15.00	7.00	3.05
RP007017080A*	7.10	17.10	8.00	3.29
RP008012040A*	8.00	12.00	4.00	2.92
RP008014040A*	8.00	14.00	4.00	3.18
RP008014060A*	8.00	14.00	6.00	3.07
RP008014080A*	8.00	14.00	8.00	2.86
RP008015050A*	8.00	15.00	5.00	3.18
RP008015060A	8.00	15.00	6.00	2.86
RP008015080A*	8.00	15.00	8.00	3.22
RP008016040A*	8.00	16.00	4.00	2.86
RP008016057A	8.00	16.00	5.70	3.07
RP008016060A	8.00	16.00	6.00	3.43
RP008016080A*	8.00	16.00	8.00	3.43
RP008018080A	8.00	18.00	8.00	3.43
RP008018100A*	8.00	18.00	10.00	7.36
RP008019080A*	8.00	19.00	8.00	3.68
RP008020080A*	8.00	20.00	8.00	4.32
RP008022100A*	8.00	22.00	10.00	4.76
RP009016040A*	9.00	16.00	4.00	3.43
RP009016060A*	9.00	16.00	6.00	2.86
RP009016070A*	9.00	16.00	7.00	3.81
RP009017055A*	9.00	17.00	5.50	3.56
RP009017060A*	9.00	17.00	6.00	3.56
RP009019060A	9.00	19.00	6.00	5.46
RP009019080A*	9.00	19.00	8.00	3.47
RP010014040A*	10.00	14.00	4.00	3.54

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

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP010015030A*	10.00	15.00	3.00	2.86
RP010015040A*	10.00	15.00	4.00	3.56
RP010016040A*	10.00	16.00	4.00	4.70
RP010016050A*	10.00	16.00	5.00	3.56
RP010016057A	10.00	16.00	5.70	3.15
RP010016060A	10.00	16.00	6.00	10.49
RP010016080A*	10.00	16.00	8.00	2.86
RP010018040A*	10.00	18.00	4.00	3.18
RP010018050A	10.00	18.00	5.00	3.06
RP010018055A*	10.00	18.00	5.50	3.57
RP010018060A	10.00	18.00	6.00	3.57
RP010018080A	10.00	18.00	8.00	5.77
RP010020050A*	10.00	20.00	5.00	2.86
RP010020060A	10.00	20.00	6.00	3.06
RP010020070A*	10.00	20.00	7.00	3.94
RP010020080A	10.00	20.00	8.00	3.96
RP010022060A*	10.00	22.00	6.00	6.58
RP010022080A*	10.00	22.00	8.00	6.37
RP010022090A*	10.00	22.00	9.00	3.94
RP010025100A*	10.00	25.00	10.00	4.19
RP010026080A*	10.00	26.00	8.00	4.19
RP010026095A*	10.00	26.00	9.50	4.19
RP010028100A*	10.00	28.00	10.00	4.32
RP011017040A*	11.00	17.00	4.00	2.86
RP011017045A	11.00	17.00	4.50	3.84
RP011020060A	11.00	20.50	6.00	4.25
RP011019047A*	11.11	19.50	4.76	2.86
RP011019050A*	11.20	19.20	5.00	4.07
RP011021080A*	11.20	21.20	8.00	5.29
RP012016027A/N	12.00	16.00	2.70	5.08
RP012017030A*	12.00	17.00	3.00	3.56
RP012018040A	12.00	18.00	4.00	3.56
RP012018048A*	12.00	18.00	4.80	4.07
RP012018050A	12.00	18.00	5.00	5.46
RP012018060A	12.00	18.00	6.00	4.07
RP012018080A*	12.00	18.00	8.00	2.86
RP012019050A*	12.00	19.00	5.00	2.86
RP012020040A*	12.00	20.00	4.00	2.86
RP012020044A	12.00	20.00	4.40	8.02
RP012020040A*	12.00	20.00	5.00	3.68
RP012020055A*	12.00	20.00	5.50	3.68
RP012020060A	12.00	20.00	6.00	2.86
RP012020070A*	12.00	20.00	7.00	4.45
RP012020080A	12.00	20.00	8.00	4.07
RP012022050A	12.00	22.00	5.00	3.96
RP012022060A*	12.00	22.00	6.00	4.19
RP012022070A	12.00	22.00	7.00	4.94
RP012022080A	12.00	22.00	8.00	4.94

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP012024060A*	12.00	24.00	6.00	4.19
RP012024080A	12.00	24.00	8.00	4.65
RP012024100A*	12.00	24.00	10.00	4.32
RP012025080A	12.00	25.00	8.00	6.98
RP012025100A*	12.00	25.00	10.00	6.98
RP012026100A*	12.00	26.00	10.00	6.35
RP012028100A*	12.00	28.00	10.00	4.57
RP012032100A*	12.00	32.00	10.00	8.89
RP013021050A*	13.00	21.00	5.00	2.86
RP013025080A*	13.00	25.00	8.00	4.45
RP014020040A*	14.00	20.00	4.00	3.94
RP014020048A	14.00	20.00	4.80	3.73
RP014020050A*	14.00	20.00	5.00	4.07
RP014020060A	14.00	20.00	6.00	4.19
RP014020080A*	14.00	20.00	8.00	2.84
RP014021050A*	14.00	21.00	5.00	2.84
RP014022040A*	14.00	22.00	4.00	4.19
RP014022045A*	14.00	22.00	4.40	5.83
RP014022050A	14.00	22.00	5.00	4.48
RP014022060A	14.00	22.00	6.00	4.32
RP014022080A	14.00	22.00	8.00	4.45
RP014022110A*	14.00	22.00	11.00	4.65
RP014022120A*	14.00	22.00	12.00	4.70
RP014024050A*	14.00	24.00	5.00	4.32
RP014024060A*	14.00	24.00	6.00	4.45
RP014024080A	14.00	24.00	8.00	4.07
RP014025080A*	14.00	25.00	8.00	4.56
RP014026050A*	14.00	26.00	5.00	3.72
RP014028070A*	14.00	28.00	7.00	5.34
RP014028100A*	14.00	28.00	10.00	5.18
RP014030050A*	14.00	30.00	5.00	4.56
RP014032080A*	14.00	32.00	8.00	7.11
RP015020030A*	15.00	20.00	3.00	3.68
RP015021035A*	15.00	21.00	3.50	3.68
RP015021040A*	15.00	21.00	4.00	2.86
RP015022055A*	15.00	22.00	5.50	4.45
RP015022060A*	15.00	22.00	6.00	2.86
RP015022080A*	15.00	22.00	8.00	4.83
RP015023050A*	15.00	23.00	5.00	2.86
RP015025050A*	15.00	25.00	5.00	6.43
RP015025060A*	15.00	25.00	6.00	3.72
RP015025070A*	15.00	25.00	7.00	4.34
RP015025073A*	15.00	25.00	7.30	9.23
RP015025080A	15.00	25.00	8.00	4.81
RP015025100A*	15.00	25.00	10.00	4.70
RP015027060A*	15.00	27.00	6.00	5.59
RP015027070A*	15.00	27.00	7.00	4.56
RP015028080A*	15.00	28.00	8.00	4.45

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$	Ref.Number	Nominal Seal Dimensions			$
	d	D	H			d	D	H	
RP015028100A	15.00	28.00	10.00	7.29	RP018026074A*	18.00	26.00	7.40	4.96
RP015030060A*	15.00	30.00	6.00	4.70	RP018026080A	18.00	26.00	8.00	7.98
RP015030080A*	15.00	30.00	8.00	4.70	RP018026085A*	18.00	26.00	8.50	5.59
RP015030100A*	15.00	30.00	10.00	4.70	RP018028050A*	18.00	28.00	5.00	3.56
RP016022030A*	16.00	22.00	3.00	4.45	RP018028060A*	18.00	28.00	6.00	4.70
RP016022040A	16.00	22.00	4.00	4.07	RP018028073A*	18.00	28.00	7.30	9.84
RP016022045A*	16.00	22.00	4.50	3.94	RP018028078A*	18.00	28.00	7.78	7.16
RP016022050A	16.00	22.00	5.00	4.07	RP018028080A	18.00	28.00	8.00	4.81
RP016022060A*	16.00	22.00	6.00	2.86	RP018030060A*	18.00	30.00	6.00	4.70
RP016022070A*	16.00	22.00	7.00	2.86	RP018030075A*	18.00	30.00	7.50	4.83
RP016022080A*	16.00	22.00	8.00	3.10	RP018030080A	18.00	30.00	8.00	5.31
RP016022100A*	16.00	22.00	10.00	4.95	RP018030085A*	18.00	30.00	8.50	4.83
RP016024040A*	16.00	24.00	4.00	2.86	RP018030100A*	18.00	30.00	10.00	5.08
RP016024044A*	16.00	24.00	4.40	8.56	RP018031080A*	18.00	31.00	8.00	4.91
RP016024050A	16.00	24.00	5.00	4.32	RP018032070A*	18.00	32.00	7.00	5.08
RP016024060A*	16.00	24.00	6.00	4.45	RP018034080A*	18.00	34.00	8.00	10.68
RP016024080A*	16.00	24.00	8.00	3.97	RP018038060A*	18.00	38.00	6.00	5.51
RP016024090A*	16.00	24.00	9.00	4.46	RP019025050A*	19.00	25.00	5.00	2.86
RP016025050A*	16.00	25.00	5.00	4.45	RP019025060A	19.00	25.00	6.00	6.98
RP016026050A	16.00	26.00	5.00	4.70	RP019025070A*	19.00	25.00	7.00	5.54
RP016026060A*	16.00	26.00	6.00	4.45	RP019027040A*	19.00	27.00	4.00	4.45
RP016026070A*	16.00	26.00	7.00	4.56	RP019034080A*	19.00	34.00	8.00	5.22
RP016026080A	16.00	26.00	8.00	5.70	RP020025030A*	20.00	25.00	3.00	5.79
RP016026100A	16.00	26.00	10.00	6.05	RP020025035A*	20.00	25.00	3.50	4.45
RP016028060A*	16.00	28.00	6.00	7.29	RP020025050A*	20.00	25.00	5.00	4.57
RP016029060A*	16.00	29.00	6.00	4.57	RP020026050A*	20.00	26.00	5.00	2.86
RP016030050A*	16.00	30.00	5.00	4.56	RP020026060A	20.00	26.00	6.00	2.86
RP016030060A	16.00	30.00	6.00	4.70	RP020027050A*	20.00	27.00	5.00	4.45
RP016032080A	16.00	32.00	8.00	7.89	RP020027060A*	20.00	27.00	6.00	4.57
RP016036050A*	16.00	36.00	5.00	4.91	RP020028040A*	20.00	28.00	4.00	5.06
RP017025040A*	17.00	25.00	4.00	4.70	RP020028044A	20.00	28.00	4.40	9.84
RP017025050A*	17.00	25.00	5.00	2.86	RP020028045A*	20.00	28.00	4.50	4.44
RP017025055A*	17.00	25.00	5.50	3.14	RP020028050A	20.00	28.00	5.00	6.25
RP017025060A*	17.00	25.00	6.00	3.33	RP020028060A	20.00	28.00	6.00	5.54
RP017025100A	17.00	25.00	10.00	4.94	RP020028070A*	20.00	28.00	7.00	6.38
RP017030060A*	17.00	30.00	6.00	4.56	RP020028080A	20.00	28.00	8.00	5.19
RP017030070A*	17.00	30.00	7.00	4.76	RP020030040A*	20.00	30.00	4.00	4.70
RP017032100A*	17.00	32.00	10.00	4.70	RP020030050A*	20.00	30.00	5.00	4.57
RP018022080A*	18.00	22.00	8.00	2.86	RP020030060A*	20.00	30.00	6.00	4.70
RP018024050A*	18.00	24.00	5.00	2.86	RP020030070A*	20.00	30.00	7.00	6.09
RP018024080A	18.00	24.00	8.00	4.70	RP020030080A	20.00	30.00	8.00	5.43
RP018025050A	18.00	25.00	5.00	5.43	RP020030100A	20.00	30.00	10.00	5.43
RP018026040A*	18.00	26.00	4.00	4.70	RP020031080A*	20.00	31.00	8.00	4.76
RP018026044A*	18.00	26.00	4.40	9.84	RP020032050A*	20.00	32.00	5.00	5.08
RP018026050A	18.00	26.00	5.00	6.06	RP020032060A*	20.00	32.00	6.00	4.95
RP018026060A	18.00	26.00	6.00	4.70	RP020032075A	20.00	32.00	7.50	5.06
RP018026065A	18.00	26.00	6.50	4.81	RP020032080A*	20.00	32.00	8.00	4.91
RP018026070A*	18.00	26.00	7.00	3.82	RP020032110A*	20.00	32.00	11.00	5.59

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP020033080A*	20.00	33.00	8.00	4.91
RP020033100A	20.00	33.00	10.00	5.65
RP020035070A*	20.00	35.00	7.00	5.09
RP020035080A*	20.00	35.00	8.00	5.41
RP020035120A	20.00	35.00	10.00	5.59
RP020035120A	20.00	35.00	12.00	5.70
RP020036080A*	20.00	36.00	8.00	5.59
RP020036100A*	20.00	36.00	10.00	5.72
RP020037120A*	20.00	37.00	12.00	8.48
RP020038120A*	20.00	38.00	12.00	8.76
RP020039100A*	20.00	39.00	10.00	11.52
RP020040080A*	20.00	40.00	8.00	7.29
RP020040100A	20.00	40.00	10.00	6.68
RP020040120A	20.00	40.00	12.00	10.19
RP022028040A*	22.00	28.00	4.00	2.86
RP022028045A	22.00	28.00	4.50	2.29
RP022028080A	22.00	28.00	8.00	4.81
RP022029050A*	22.00	29.00	5.00	3.04
RP022030040A	22.00	30.00	4.00	8.02
RP022030060A	22.00	30.00	6.00	5.43
RP022030070A	22.00	30.00	7.00	5.87
RP022030100A	22.00	30.00	10.00	5.73
RP022032050A*	22.00	32.00	5.00	4.83
RP022032060A	22.00	32.00	6.00	5.08
RP022032070A*	22.00	32.00	7.00	5.08
RP022032080A	22.00	32.00	8.00	5.70
RP022032100A	22.00	32.00	10.00	5.59
RP022034060A*	22.00	34.00	6.00	5.34
RP022034070A*	22.00	34.00	7.00	4.76
RP022034100A*	22.00	34.00	10.00	5.84
RP022035060A*	22.00	35.00	6.00	4.76
RP022035070A*	22.00	35.00	7.00	4.91
RP022035080A*	22.00	35.00	8.00	5.18
RP022035100A*	22.00	35.00	10.00	5.31
RP022035100A/T601*	22.00	35.00	10.00	10.85
RP022036090A*	22.00	36.00	9.00	5.99
RP022038080A*	22.00	38.00	8.00	6.30
RP022038100A*	22.00	38.00	10.00	5.97
RP022040100A*	22.00	40.00	10.00	6.10
RP022040120A	22.00	40.00	12.00	8.95
RP022042100A*	22.00	42.00	10.00	6.10
RP022046120A*	22.00	46.00	12.00	6.73
RP022030050A*	22.40	30.00	5.00	9.10
RP022030050A-1*	22.40	30.00	5.00	8.54
RP022032080A	22.40	32.40	8.00	8.38
RP022031050A*	22.50	31.50	5.00	3.77
RP023033053A*	22.70	33.00	5.30	4.56
RP023035060A*	23.00	35.00	6.00	4.76

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP023031050A*	23.50	31.50	5.00	8.63
RP024030060A*	24.00	30.00	6.00	3.31
RP024032040A*	24.00	32.00	4.00	4.70
RP024032050A*	24.00	32.00	5.00	3.47
RP024032060A*	24.00	32.00	6.00	4.17
RP024032070A	24.00	32.00	7.00	4.70
RP024034050A*	24.00	34.00	5.00	5.34
RP024034060A*	24.00	34.00	6.00	4.56
RP024034070A*	24.00	34.00	7.00	4.76
RP024036060A*	24.00	36.00	6.00	4.76
RP024036080A*	24.00	36.00	8.00	5.08
RP024040080A	24.00	40.00	8.00	5.95
RP025030060A*	25.00	30.00	6.00	2.86
RP025031060A	25.00	31.00	6.00	3.33
RP025032040A*	25.00	32.00	4.00	4.83
RP025032050A*	25.00	32.00	5.00	3.33
RP025032070A	25.00	32.00	7.00	5.08
RP025032080A*	25.00	32.00	8.00	4.56
RP025033040A*	25.00	33.00	4.00	4.83
RP025033044A	25.00	33.00	4.40	9.64
RP025033050A	25.00	33.00	5.00	8.63
RP025033055A*	25.00	33.00	5.50	3.95
RP025033057A	25.00	33.00	5.70	4.32
RP025033060A	25.00	33.00	6.00	4.31
RP025033070A*	25.00	33.00	7.00	5.46
RP025033080A	25.00	33.00	8.00	5.70
RP025033100A	25.00	33.00	10.00	4.76
RP025035050A	25.00	35.00	5.00	5.31
RP025035060A*	25.00	35.00	6.00	8.63
RP025035070A*	25.00	35.00	7.00	5.59
RP025035080A	25.00	35.00	8.00	4.32
RP025035100A	25.00	35.00	10.00	5.31
RP025036060A	25.00	36.00	6.00	4.76
RP025037070A*	25.00	37.00	7.00	5.59
RP025038070A*	25.00	38.00	7.00	5.59
RP025038080A	25.00	38.00	8.00	8.94
RP025038080A/T601	25.00	38.00	8.00	11.58
RP025038090A*	25.00	38.00	9.00	5.84
RP025038100A	25.00	38.00	10.00	5.43
RP025040060A*	25.00	40.00	6.00	5.15
RP025040080A	25.00	40.00	8.00	6.40
RP025040100A	25.00	40.00	10.00	10.87
RP025042080A*	25.00	42.00	8.00	6.97
RP025043080A*	25.00	43.00	8.00	7.44
RP025045080A*	25.00	45.00	8.00	8.17
RP025045100A*	25.00	45.00	10.00	9.09
RP025050100A*	25.00	50.00	10.00	10.07
RP025050120A*	25.00	50.00	12.00	4.27

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$	Ref.Number	Nominal Seal Dimensions			$
	d	D	H			d	D	H	
RP026032047A*	26.00	32.00	4.70	2.86	RP030040065A*	30.00	40.00	6.50	3.79
RP026035080A*	26.00	35.00	8.00	4.32	RP030040070A	30.00	40.00	7.00	10.64
RP026036080A*	26.00	36.00	8.00	4.91	RP030040080A	30.00	40.00	8.00	7.55
RP026036100A*	26.00	36.00	10.00	5.18	RP030040100A	30.00	40.00	10.00	10.49
RP026038080A*	26.00	38.00	8.00	3.26	RP030042060A*	30.00	42.00	6.00	4.91
RP026042080A*	26.00	42.00	8.00	5.84	RP030042080A	30.00	42.00	8.00	5.67
RP026047120A*	26.00	47.00	12.00	9.97	RP030042090A*	30.00	42.00	9.00	8.27
RP027035040A*	27.00	35.00	4.00	5.59	RP030042100A	30.00	42.00	10.00	8.58
RP027035050A*	27.00	35.00	5.00	3.84	RP030045100A	30.00	45.00	10.00	6.80
RP027035060A*	27.00	35.00	6.00	5.59	RP030050100A	30.00	50.00	10.00	7.54
RP027036060A*	27.00	36.00	6.00	4.56	RP030050120A*	30.00	50.00	12.00	7.88
RP027038060A*	27.00	38.00	6.00	5.59	RP030052100A*	30.00	52.00	10.00	9.97
RP028035050A	28.00	35.00	5.00	5.43	RP031047100A*	31.00	47.00	10.00	8.72
RP028035060A*	28.00	35.00	6.00	5.59	RP031041060A	31.50	41.50	6.00	10.79
RP028035050A-1	28.00	35.50	5.00	9.28	RP032040040A*	32.00	40.00	4.00	5.97
RP028036040A*	28.00	36.00	4.00	5.34	RP032040050A	32.00	40.00	5.00	3.95
RP028036050A	28.00	36.00	5.00	6.18	RP032040055A*	32.00	40.00	5.50	6.18
RP028036060A*	28.00	36.00	6.00	5.59	RP032040057A*	32.00	40.00	5.70	2.67
RP028036065A	28.00	36.00	6.50	4.70	RP032040060A	32.00	40.00	6.00	5.20
RP028036070A*	28.00	36.00	7.00	4.56	RP032040080A	32.00	40.00	8.00	6.18
RP028036080A*	28.00	36.00	8.00	4.76	RP032040100A	32.00	40.00	10.00	4.06
RP028038050A*	28.00	38.00	5.00	5.59	RP032042056A	32.00	42.00	5.60	10.24
RP028038056A	28.00	38.00	5.60	10.29	RP032042060A	32.00	42.00	6.00	5.97
RP028038070A*	28.00	38.00	7.00	3.70	RP032042080A	32.00	42.00	8.00	9.31
RP028038080A	28.00	38.00	8.00	5.43	RP032042100A	32.00	42.00	10.00	5.95
RP028038100A*	28.00	38.00	10.00	3.38	RP032044060A*	32.00	44.00	6.00	6.22
RP028040060A*	28.00	40.00	6.00	5.72	RP032045080A*	32.00	45.00	8.00	6.86
RP028040080A	28.00	40.00	8.00	3.79	RP032045100A	32.00	45.00	10.00	7.03
RP028040100A	28.00	40.00	10.00	5.95	RP032046100A*	32.00	46.00	10.00	10.97
RP028040100A/T601*	28.00	40.00	10.00	11.58	RP032047100A*	32.00	47.00	10.00	8.28
RP028043100A*	28.00	43.00	10.00	2.67	RP032048100A*	32.00	48.00	10.00	7.24
RP028044080A*	28.00	44.00	8.00	3.55	RP032050120A	32.00	50.00	12.00	7.88
RP028048100A*	28.00	48.00	10.00	6.73	RP032052100A*	32.00	52.00	10.00	7.88
RP028048120A*	28.00	48.00	12.00	7.24	RP033043060A*	33.00	43.00	6.00	6.86
RP030036080A*	30.00	36.00	8.00	4.56	RP034045080A*	34.00	45.00	8.00	5.70
RP030037060A*	30.00	37.00	6.00	5.84	RP034045090A*	34.00	45.00	9.00	8.38
RP030037080A*	30.00	37.00	8.00	5.97	RP034050140A*	34.00	50.00	14.00	9.77
RP030038040A*	30.00	38.00	4.00	5.97	RP035041050A	35.00	41.00	5.00	3.53
RP030038050A*	30.00	38.00	5.00	12.25	RP035042100A*	35.00	42.00	10.00	4.91
RP030038055A	30.00	38.00	5.50	4.25	RP035043060A	35.00	43.00	6.00	3.56
RP030038060A	30.00	38.00	6.00	5.83	RP035043080A*	35.00	43.00	8.00	11.61
RP030038070A*	30.00	38.00	7.00	7.49	RP035045050A*	35.00	45.00	5.00	4.88
RP030038080A*	30.00	38.00	8.00	8.75	RP035045060A	35.00	45.00	6.00	10.04
RP030038100A*	30.00	38.00	10.00	6.22	RP035045070A	35.00	45.00	7.00	10.04
RP030040050A	30.00	40.00	5.00	6.68	RP035045080A	35.00	45.00	8.00	6.80
RP030040055A*	30.00	40.00	5.50	4.83	RP035045100A	35.00	45.00	10.00	9.89
RP030040056A*	30.00	40.00	5.60	10.46	RP035046100A*	35.00	46.00	10.00	6.97
RP030040060A	30.00	40.00	6.00	10.64	RP035047060A*	35.00	47.00	6.00	7.11

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP035048080A*	35.00	48.00	8.00	7.24
RP035048100A	35.00	48.00	10.00	7.80
RP035050080A*	35.00	50.00	8.00	8.53
RP035050100A	35.00	50.00	10.00	7.28
RP035052120A*	35.00	52.00	12.00	8.51
RP035055100A	35.00	55.00	10.00	8.18
RP035055120A*	35.00	55.00	12.00	8.51
RP035045060A-1	35.50	45.00	6.00	10.04
RP036044080A	36.00	44.00	8.00	4.91
RP036045100A*	36.00	45.00	10.00	4.78
RP036046050A*	36.00	46.00	5.00	7.37
RP036046056A	36.00	46.00	5.60	10.46
RP036046060A*	36.00	46.00	6.00	7.37
RP036046070A	36.00	46.00	7.00	5.95
RP036046100A	36.00	46.00	10.00	4.78
RP036048060A*	36.00	48.00	6.00	7.37
RP036050080A*	36.00	50.00	8.00	7.62
RP036051100A*	36.00	51.00	10.00	7.62
RP037047100A*	37.00	47.00	10.00	6.64
RP038045050A	38.00	45.00	5.00	7.28
RP038045060A*	38.00	45.00	6.00	6.61
RP038046065A	38.00	46.00	6.50	9.08
RP038048060A	38.00	48.00	6.00	11.67
RP038048100A*	38.00	48.00	10.00	6.79
RP038050060A*	38.00	50.00	6.00	7.24
RP038050080A*	38.00	50.00	8.00	6.67
RP038050090A	38.00	50.00	9.00	5.08
RP038050100A	38.00	50.00	10.00	4.00
RP038052100A*	38.00	52.00	10.00	8.80
RP038055097A*	38.00	55.00	9.70	11.12
RP038055100A	38.00	55.00	10.00	8.13
RP038058100A	38.00	58.00	10.00	6.18
RP038060100A*	38.00	60.00	10.00	11.14
RP038062120A*	38.00	62.00	12.00	14.88
RP039058100A*	39.00	58.00	10.00	8.64
RP040048080A	40.00	48.00	8.00	3.38
RP040048110A	40.00	48.00	11.00	7.62
RP040050050A	40.00	50.00	5.00	5.06
RP040050056A	40.00	50.00	5.60	10.70
RP040050060A	40.00	50.00	6.00	11.67
RP040050060A/T601*	40.00	50.00	6.00	11.05
RP040050065A	40.00	50.00	6.50	6.68
RP040050070A	40.00	50.00	7.00	10.05
RP040050080A	40.00	50.00	8.00	6.68
RP040050090A*	40.00	50.00	9.00	7.62
RP040050100A	40.00	50.00	10.00	6.80
RP040052060A*	40.00	52.00	6.00	4.32
RP040052080A	40.00	52.00	8.00	6.97

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP040052120A*	40.00	52.00	12.00	7.88
RP040055070A*	40.00	55.00	7.00	7.62
RP040055080A	40.00	55.00	8.00	8.31
RP040055099A*	40.00	55.00	9.90	10.87
RP040055100A	40.00	55.00	10.00	12.37
RP040056080A*	40.00	56.00	8.00	4.00
RP040056100A	40.00	56.00	10.00	3.55
RP040060100A	40.00	60.00	10.00	5.95
RP040060120A	40.00	60.00	12.00	12.87
RP040060130A	40.00	60.00	13.00	4.00
RP040060180A	40.00	60.00	18.00	8.66
RP040065100A*	40.00	65.00	10.00	8.51
RP040065120A	40.00	65.00	12.00	9.26
RP040070120A*	40.00	70.00	12.00	12.83
RP041057100A*	41.00	57.00	10.00	9.91
RP041061100A*	41.00	61.00	10.00	10.54
RP042050050A*	42.00	50.00	5.00	7.62
RP042050060A	42.00	50.00	6.00	7.62
RP042050080A	42.00	50.00	8.00	6.68
RP042051110A*	42.00	51.00	11.00	8.13
RP042052060A*	42.00	52.00	6.00	5.14
RP042052080A*	42.00	52.00	8.00	6.17
RP042052090A	42.00	52.00	9.00	7.06
RP042052100A	42.00	52.00	10.00	8.13
RP042055080A*	42.00	55.00	8.00	7.44
RP042057080A*	42.00	57.00	8.00	8.26
RP042062120A	42.00	62.00	12.00	9.11
RP043063100A*	43.00	63.00	10.00	4.91
RP044057090A*	44.00	57.00	9.00	8.13
RP045052080A*	45.00	52.00	8.00	4.91
RP045053080A	45.00	53.00	8.00	11.88
RP045055056A	45.00	55.00	5.60	11.12
RP045055060A	45.00	55.00	6.00	15.02
RP045055065A	45.00	55.00	6.50	7.54
RP045055080A*	45.00	55.00	8.00	7.88
RP045055100A	45.00	55.00	10.00	7.54
RP045055120A*	45.00	55.00	12.00	8.57
RP045056070A	45.00	56.00	7.00	15.84
RP045057060A*	45.00	57.00	6.00	8.13
RP045058100A*	45.00	58.00	10.00	6.76
RP045058120A*	45.00	58.00	12.00	5.42
RP045060100A	45.00	60.00	10.00	8.18
RP045061100A*	45.00	61.00	10.00	9.92
RP045063100A	45.00	63.00	10.00	7.03
RP045063120A	45.00	63.00	12.00	11.41
RP045065100A	45.00	65.00	10.00	9.50
RP045065120A	45.00	65.00	12.00	9.50
RP045070120A	45.00	70.00	12.00	4.81

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$	Ref.Number	Nominal Seal Dimensions			$
	d	D	H			d	D	H	
RP046058060A*	46.00	58.00	6.00	8.38	RP055065120A	55.00	65.00	12.00	7.42
RP046070120A*	46.00	70.00	12.00	15.12	RP055070075A*	55.00	70.00	7.50	10.92
RP047063080A*	47.00	63.00	8.00	8.49	RP055070080A*	55.00	70.00	8.00	9.83
RP047065120A*	47.00	65.00	12.00	9.02	RP055070100A*	55.00	70.00	10.00	4.90
RP048058100A	48.00	58.00	10.00	7.91	RP055070120A	55.00	70.00	12.00	10.02
RP048060060A*	48.00	60.00	6.00	8.13	RP055075100A*	55.00	75.00	10.00	6.31
RP048063100A	48.00	63.00	10.00	19.52	RP055075120A	55.00	75.00	12.00	9.75
RP048063120A*	48.00	63.00	12.00	9.02	RP055080120A*	55.00	80.00	12.00	15.78
RP048068100A*	48.00	68.00	10.00	9.53	RP055080150A*	55.00	80.00	15.00	12.07
RP048068120A*	48.00	68.00	12.00	9.02	RP056066050A*	56.00	66.00	5.00	8.38
RP050057100A*	50.00	57.00	10.00	8.38	RP056066060A	56.00	66.00	6.00	17.42
RP050058080A	50.00	58.00	8.00	10.70	RP056066067A	56.00	66.00	6.70	12.00
RP050058120A*	50.00	58.00	12.00	7.56	RP056066073A	56.00	66.00	7.30	12.78
RP050060050A	50.00	60.00	5.00	8.47	RP056066100A*	56.00	66.00	10.00	11.86
RP050060056A	50.00	60.00	5.60	11.96	RP056070120A*	56.00	70.00	12.00	9.27
RP050060060A	50.00	60.00	6.00	11.09	RP056071084A	56.00	71.00	8.40	15.31
RP050060070A	50.00	60.00	7.00	8.26	RP056071100A*	56.00	71.00	10.00	8.51
RP050060072A	50.00	60.00	7.20	8.18	RP056076120A*	56.00	76.00	12.00	9.53
RP050060080A*	50.00	60.00	8.00	8.38	RP056080150A*	56.00	80.00	15.00	12.07
RP050060100A	50.00	60.00	10.00	7.42	RP058068060A*	58.00	68.00	6.00	11.79
RP050060110A	50.00	60.00	11.00	15.01	RP058070060A*	58.00	70.00	6.00	8.51
RP050060120A	50.00	60.00	12.00	8.51	RP058078150A*	58.00	78.00	15.00	10.16
RP050062060A*	50.00	62.00	6.00	8.38	RP060068080A	60.00	68.00	8.00	7.46
RP050062090A	50.00	62.00	9.00	7.42	RP060070050A*	60.00	70.00	5.00	3.91
RP050062100A	50.00	62.00	10.00	10.81	RP060070060A	60.00	70.00	6.00	11.79
RP050063060A	50.00	63.00	6.00	7.03	RP060070080A	60.00	70.00	8.00	9.75
RP050063080A*	50.00	63.00	8.00	8.38	RP060070100A	60.00	70.00	10.00	9.75
RP050063100A	50.00	63.00	10.00	5.68	RP060070120A	60.00	70.00	12.00	9.75
RP050063120A*	50.00	63.00	12.00	8.38	RP060071070A	60.00	71.00	7.00	12.04
RP050065075A*	50.00	65.00	7.50	6.14	RP060075100A	60.00	75.00	10.00	8.66
RP050065080A	50.00	65.00	8.00	9.22	RP060075120A	60.00	75.00	12.00	8.66
RP050065100A	50.00	65.00	10.00	17.66	RP060080100A	60.00	80.00	10.00	9.89
RP050065120A	50.00	65.00	12.00	10.69	RP060080120A	60.00	80.00	12.00	9.89
RP050068120A*	50.00	68.00	12.00	8.77	RP060080180A*	60.00	80.00	18.00	11.13
RP050070080A*	50.00	70.00	8.00	9.27	RP060085125A	60.00	85.00	12.50	23.40
RP050070100A*	50.00	70.00	10.00	10.02	RP060090150A	60.00	90.00	15.00	33.22
RP050070120A	50.00	70.00	12.00	10.02	RP061071060A*	61.00	71.00	6.00	8.89
RP050070180A*	50.00	70.00	18.00	22.31	RP061080120A*	61.00	80.00	12.00	10.42
RP052062060A*	52.00	62.00	6.00	8.38	RP063072060A*	63.00	72.00	6.00	9.02
RP052062120A*	52.00	62.00	12.00	8.03	RP063073060A	63.00	73.00	6.00	11.79
RP053063060A	53.00	63.00	6.00	16.99	RP063073075A*	63.00	73.00	7.50	6.14
RP053063065A	53.00	63.00	6.50	8.43	RP063073080A	63.00	73.00	8.00	13.84
RP053063072A	53.00	63.00	7.25	26.20	RP063073118A*	63.00	73.00	11.80	13.84
RP053063120A*	53.00	63.00	12.00	8.77	RP063073120A*	63.00	73.00	12.00	9.91
RP055065050A*	55.00	65.00	5.00	3.74	RP063075100A	63.00	75.00	10.00	9.03
RP055065060A	55.00	65.00	6.00	16.99	RP063078084A	63.00	78.00	8.40	15.74
RP055065100A	55.00	65.00	10.00	7.42	RP063078100A	63.00	78.00	10.00	10.14
RP055065110A*	55.00	65.00	11.00	7.64	RP063080160A*	63.00	80.00	16.00	20.09

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP063083120A*	63.00	83.00	12.00	10.16
RP065073120A*	65.00	73.00	12.00	10.28
RP065075060A	65.00	75.00	6.00	18.78
RP065075100A*	65.00	75.00	10.00	9.65
RP065075120A	65.00	75.00	12.00	10.04
RP065080075A*	65.00	80.00	7.50	6.77
RP065080084A	65.00	80.00	8.40	16.54
RP065080100A	65.00	80.00	10.00	10.67
RP065080110A	65.00	80.00	11.00	9.89
RP065080120A	65.00	80.00	12.00	9.89
RP065085100A	65.00	85.00	10.00	9.89
RP065085120A	65.00	85.00	12.00	9.89
RP065090080A*	65.00	90.00	8.00	10.42
RP065090130A*	65.00	90.00	13.00	12.07
RP065090150A*	65.00	90.00	15.00	12.45
RP066076080A*	66.00	76.00	8.00	10.12
RP066077060A*	66.00	77.00	6.00	9.02
RP066080100A*	66.00	80.00	10.00	9.40
RP066080130A*	66.00	80.00	13.00	9.40
RP067077060A*	67.00	77.00	6.00	18.78
RP067077100A*	67.00	77.00	10.00	11.87
RP067077120A*	67.00	77.00	12.00	10.32
RP070080050A	70.00	80.00	5.00	9.03
RP070080060A	70.00	80.00	6.00	19.64
RP070080080A	70.00	80.00	8.00	8.66
RP070080100A	70.00	80.00	10.00	9.03
RP070080118A	70.00	80.00	11.80	16.54
RP070080120A	70.00	80.00	12.00	9.03
RP070085080A*	70.00	85.00	8.00	10.06
RP070085084A*	70.00	85.00	8.40	21.77
RP070085100A*	70.00	85.00	10.00	12.01
RP070085120A	70.00	85.00	12.00	9.89
RP070090100A	70.00	90.00	10.00	15.33
RP070090120A	70.00	90.00	12.00	9.89
RP070090135A	70.00	90.00	13.50	22.31
RP070090180A*	70.00	90.00	18.00	9.95
RP070092120A	70.00	92.00	12.00	16.54
RP070095120A	70.00	95.00	12.00	9.63
RP071080060A	71.00	80.00	6.00	19.64
RP072090100A*	72.00	90.00	10.00	10.42
RP075085060A	75.00	85.00	6.00	21.62
RP075085070A*	75.00	85.00	7.00	16.58
RP075085100A	75.00	85.00	10.00	6.59
RP075085118A*	75.00	85.00	11.80	20.09
RP075085120A	75.00	85.00	12.00	10.38
RP075090075A	75.00	90.00	7.50	10.87
RP075090100A	75.00	90.00	10.00	6.59
RP075090120A	75.00	90.00	12.00	10.65

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP075095100A*	75.00	95.00	10.00	7.03
RP075095120A	75.00	95.00	12.00	10.26
RP075100150A*	75.00	100.00	15.00	32.30
RP078093105A*	78.00	93.00	10.50	12.57
RP080090050A	80.00	90.00	5.00	6.94
RP080090060A	80.00	90.00	6.00	25.27
RP080090080A	80.00	90.00	8.00	7.03
RP080090100A	80.00	90.00	10.00	9.89
RP080090118A*	80.00	90.00	11.80	17.58
RP080090120A	80.00	90.00	12.00	27.15
RP080095080A*	80.00	95.00	8.00	10.67
RP080095084A	80.00	95.00	8.40	22.88
RP080095090A*	80.00	95.00	9.00	5.61
RP080095100A	80.00	95.00	10.00	6.87
RP080095120A	80.00	95.00	12.00	9.75
RP080100100A	80.00	100.00	10.00	10.14
RP080100120A	80.00	100.00	12.00	10.14
RP080100130A*	80.00	100.00	13.00	24.17
RP080100135A*	80.00	100.00	13.50	8.08
RP080100180A*	80.00	100.00	18.00	9.48
RP080105150A*	80.00	105.00	15.00	14.10
RP082092100A	82.00	92.00	10.00	16.39
RP082102100A*	82.00	102.00	10.00	11.94
RP083103140A*	83.00	103.00	14.00	13.21
RP085095085A	85.00	95.00	8.50	7.19
RP085095090A*	85.00	95.00	9.00	10.92
RP085095120A	85.00	95.00	12.00	10.26
RP085100084A	85.00	100.00	8.40	18.01
RP085100089A	85.00	100.00	8.90	21.79
RP085100090A*	85.00	100.00	9.00	30.56
RP085100100A	85.00	100.00	10.00	14.33
RP085100110A	85.00	100.00	11.00	7.29
RP085100120A	85.00	100.00	12.00	12.51
RP085100250A*	85.00	100.00	25.00	21.09
RP085102090A*	85.00	102.00	9.00	10.67
RP085105120A*	85.00	105.00	12.00	10.87
RP085110120A	85.00	110.00	12.00	28.80
RP085115150A*	85.00	115.00	15.00	14.20
RP090100050A*	90.00	100.00	5.00	7.22
RP090100068A*	90.00	100.00	6.80	11.05
RP090100070A	90.00	100.00	7.00	9.75
RP090100080A	90.00	100.00	8.00	9.75
RP090100100A*	90.00	100.00	10.00	10.07
RP090100118A*	90.00	100.00	11.80	20.93
RP090100120A	90.00	100.00	12.00	29.37
RP090102090A	90.00	102.00	9.00	14.07
RP090105084A	90.00	105.00	8.40	20.93
RP090105089A	90.00	105.00	8.90	23.26

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP090105090A*	90.00	105.00	9.00	33.21
RP090105120A	90.00	105.00	12.00	13.60
RP090110100A*	90.00	110.00	10.00	6.67
RP090110120A	90.00	110.00	12.00	11.36
RP090110150A	90.00	110.00	15.00	12.70
RP090110180A	90.00	110.00	18.00	11.48
RP090115120A*	90.00	115.00	12.00	13.85
RP090115150A*	90.00	115.00	15.00	9.83
RP090120150A*	90.00	120.00	15.00	15.24
RP095105070A*	95.00	105.00	7.00	9.36
RP095105100A*	95.00	105.00	10.00	10.33
RP095105120A*	95.00	105.00	12.00	12.40
RP095110089A*	95.00	110.00	8.90	27.78
RP095110090A*	95.00	110.00	9.00	31.61
RP095110100A*	95.00	110.00	10.00	7.81
RP095110120A	95.00	110.00	12.00	7.53
RP095110150A	95.00	110.00	15.00	20.25
RP095112110A	95.00	112.00	11.00	13.50
RP095115120A	95.00	115.00	12.00	12.86
RP095115150A*	95.00	115.00	15.00	13.59
RP095115180A*	95.00	115.00	18.00	37.21
RP095120120A*	95.00	120.00	12.00	15.24
RP096105110A*	96.00	105.00	11.00	13.34
RP098112090A*	98.00	112.00	9.00	32.18
RP100110050A*	100.00	110.00	5.00	6.67
RP100110060A*	100.00	110.00	6.00	8.85
RP100110080A*	100.00	110.00	8.00	7.94
RP100110110A*	100.00	110.00	11.00	11.93
RP100110150A*	100.00	110.00	15.00	16.27
RP100112090A*	100.00	112.00	9.00	11.80
RP100115089A	100.00	115.00	8.90	27.78
RP100115090A*	100.00	115.00	9.00	32.18
RP100115100A*	100.00	115.00	10.00	16.66
RP100115120A	100.00	115.00	12.00	11.76
RP100115150A*	100.00	115.00	15.00	24.99
RP100120100A*	100.00	120.00	10.00	22.73
RP100120120A	100.00	120.00	12.00	33.31
RP100120135A*	100.00	120.00	13.50	9.19
RP100120150A*	100.00	120.00	15.00	8.85
RP100125120A	100.00	125.00	12.00	33.22
RP100125150A	100.00	125.00	15.00	13.98
RP100130120A	100.00	130.00	12.00	19.32
RP100130150A*	100.00	130.00	15.00	17.78
RP100130180A*	100.00	130.00	18.00	17.78
RP105115090A*	105.00	115.00	9.00	10.23
RP105120080A	105.00	120.00	8.00	10.65
RP105120090A*	105.00	120.00	9.00	15.69
RP105120120A	105.00	120.00	12.00	20.92

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP105120150A	105.00	120.00	15.00	13.10
RP105125100A*	105.00	125.00	10.00	23.76
RP105125114A*	105.00	125.00	11.40	23.53
RP105125120A	105.00	125.00	12.00	10.05
RP105125130A*	105.00	125.00	13.00	29.43
RP105125150A	105.00	125.00	15.00	12.98
RP105125160A*	105.00	125.00	16.00	12.03
RP105130120A*	105.00	130.00	12.00	11.73
RP105130150A*	105.00	130.00	15.00	17.02
RP105130180A*	105.00	130.00	18.00	17.78
RP106120085A	106.00	120.00	8.50	9.61
RP107130150A*	107.00	130.00	15.00	17.78
RP108127100A*	108.00	127.00	10.00	16.17
RP110120080A*	110.00	120.00	8.00	13.34
RP110120120A*	110.00	120.00	12.00	14.26
RP110125120A	110.00	125.00	12.00	13.60
RP110125150A	110.00	125.00	15.00	34.58
RP110130090A*	110.00	130.00	9.00	22.31
RP110130100A*	110.00	130.00	10.00	8.00
RP110130110A	110.00	130.00	11.00	41.57
RP110130120A	110.00	130.00	12.00	28.35
RP110130150A	110.00	130.00	15.00	30.93
RP110130180A*	110.00	130.00	18.00	17.92
RP110135150A*	110.00	135.00	15.00	45.22
RP110135180A*	110.00	135.00	18.00	17.78
RP110140150A*	110.00	140.00	15.00	55.37
RP110140180A*	110.00	140.00	18.00	19.18
RP112125089A	112.00	125.00	8.90	19.60
RP112125090A*	112.00	125.00	9.00	33.31
RP113125095A	113.00	125.00	9.50	16.99
RP115125080A*	115.00	125.00	8.00	14.35
RP115125120A*	115.00	125.00	12.00	9.39
RP115125150A*	115.00	125.00	15.00	15.24
RP115126150A*	115.00	126.00	15.00	13.33
RP115130090A*	115.00	130.00	9.00	17.08
RP115130100A	115.00	130.00	10.00	15.63
RP115130120A*	115.00	130.00	12.00	22.78
RP115130150A*	115.00	130.00	15.00	27.13
RP115135150A	115.00	135.00	15.00	44.16
RP115140120A*	115.00	140.00	12.00	37.65
RP115140150A	115.00	140.00	15.00	47.07
RP115140180A*	115.00	140.00	18.00	18.42
RP120130070A*	120.00	130.00	7.00	16.51
RP120130120A*	120.00	130.00	12.00	15.50
RP120130140A	120.00	130.00	14.00	12.03
RP120132100A*	120.00	132.00	10.00	17.15
RP120132120A*	120.00	132.00	12.00	18.74
RP120135090A*	120.00	135.00	9.00	17.78

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

A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP120135120A	120.00	135.00	12.00	23.71
RP120135150A	120.00	135.00	15.00	19.44
RP120140100A*	120.00	140.00	10.00	9.34
RP120140120A*	120.00	140.00	12.00	12.28
RP120140145A*	120.00	140.00	14.50	44.63
RP120140150A	120.00	140.00	15.00	14.97
RP120140160A*	120.00	140.00	16.00	40.95
RP120145120A*	120.00	145.00	12.00	39.13
RP120145150A*	120.00	145.00	15.00	48.91
RP120145180A*	120.00	145.00	18.00	18.67
RP120150150A*	120.00	150.00	15.00	35.89
RP120150180A*	120.00	150.00	18.00	21.98
RP125140089A	125.00	140.00	8.90	23.32
RP125140090A*	125.00	140.00	9.00	16.01
RP125140110A	125.00	140.00	11.00	14.97
RP125140120A*	125.00	140.00	12.00	12.37
RP125140150A	125.00	140.00	15.00	29.35
RP125145100A*	125.00	145.00	10.00	18.80
RP125145120A*	125.00	145.00	12.00	31.90
RP125145150A	125.00	145.00	15.00	34.70
RP125145180A*	125.00	145.00	18.00	20.48
RP125150150A*	125.00	150.00	15.00	50.76
RP125150180A*	125.00	150.00	18.00	11.47
RP125155150A*	125.00	155.00	15.00	16.52
RP125155180A*	125.00	155.00	18.00	24.26
RP127151160A*	127.00	151.00	16.00	22.61
RP130140080A*	130.00	140.00	8.00	15.63
RP130145090A*	130.00	145.00	9.00	19.18
RP130145120A*	130.00	145.00	12.00	25.31
RP130145150A*	130.00	145.00	15.00	30.46
RP130150100A*	130.00	150.00	10.00	27.56
RP130150120A*	130.00	150.00	12.00	33.08
RP130150150A	130.00	150.00	15.00	21.72
RP130152130A*	130.00	152.00	13.00	24.14
RP130155120A*	130.00	155.00	12.00	42.08
RP130155150A*	130.00	155.00	15.00	52.61
RP130160150A	130.00	160.00	15.00	64.23
RP130160180A*	130.00	160.00	18.00	25.41
RP132145090A*	132.00	145.00	9.00	16.74
RP132152150A*	132.00	152.00	15.00	41.94
RP135150120A*	135.00	150.00	12.00	25.31
RP135150150A	135.00	150.00	15.00	11.27
RP135155120A*	135.00	155.00	12.00	34.26
RP135155150A	135.00	155.00	15.00	32.28
RP135160150A	135.00	160.00	15.00	54.45
RP135165150A*	135.00	165.00	15.00	39.88
RP136150085A*	136.00	150.00	8.50	34.52
RP136150090A*	136.00	150.00	9.00	38.24

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP140150150A*	140.00	150.00	15.00	22.47
RP140152100A*	140.00	152.00	10.00	18.10
RP140154089A*	140.00	154.00	8.90	34.52
RP140155089A*	140.00	155.00	8.90	33.78
RP140155090A*	140.00	155.00	9.00	14.22
RP140155100A*	140.00	155.00	10.00	22.86
RP140155150A*	140.00	155.00	15.00	32.67
RP140160080A*	140.00	160.00	8.00	20.96
RP140160100A*	140.00	160.00	10.00	21.72
RP140160120A	140.00	160.00	12.00	35.44
RP140160150A	140.00	160.00	15.00	36.15
RP140160160A*	140.00	160.00	16.00	47.25
RP140165150A*	140.00	165.00	15.00	19.42
RP140165180A*	140.00	165.00	18.00	24.14
RP140170180A*	140.00	170.00	18.00	24.90
RP145160080A*	145.00	160.00	8.00	20.33
RP145160089A	145.00	160.00	8.90	35.46
RP145160090A	145.00	160.00	9.00	43.58
RP145160120A*	145.00	160.00	12.00	27.02
RP145165150A	145.00	165.00	15.00	43.13
RP145170150A*	145.00	170.00	15.00	58.14
RP145170180A*	145.00	170.00	18.00	26.55
RP145175150A*	145.00	175.00	15.00	70.88
RP145175180A*	145.00	175.00	18.00	26.55
RP150165089A*	150.00	165.00	8.90	41.26
RP150165090A*	150.00	165.00	9.00	21.60
RP150170120A	150.00	170.00	12.00	37.80
RP150170150A	150.00	170.00	15.00	43.13
RP150180150A*	150.00	180.00	15.00	26.04
RP150180180A*	150.00	180.00	18.00	26.80
RP155175150A*	155.00	175.00	15.00	24.39
RP155180150A*	155.00	180.00	15.00	48.09
RP160170050A*	160.00	170.00	5.00	25.41
RP160170120A*	160.00	170.00	12.00	20.45
RP160175090A	160.00	175.00	9.00	51.58
RP160175120A*	160.00	175.00	12.00	29.68
RP160175150A*	160.00	175.00	15.00	37.10
RP160180100A*	160.00	180.00	10.00	18.22
RP160180120A*	160.00	180.00	12.00	40.17
RP160180150A	160.00	180.00	15.00	31.76
RP160185120A*	160.00	185.00	12.00	50.94
RP160185150A*	160.00	185.00	15.00	52.87
RP160185180A*	160.00	185.00	18.00	76.42
RP160190150A*	160.00	190.00	15.00	77.52
RP160190180A*	160.00	190.00	18.00	93.03
RP160190220A*	160.00	190.00	22.00	22.05
RP160195170A*	160.00	195.00	17.00	38.11
RP165180090A*	165.00	180.00	9.00	53.91

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A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP165180095A*	165.00	180.00	9.50	20.45
RP165180150A*	165.00	180.00	15.00	38.21
RP165183100A*	165.00	183.00	10.00	54.58
RP165185150A*	165.00	185.00	15.00	51.68
RP165190150A	165.00	190.00	15.00	56.79
RP165195200A*	165.00	195.00	20.00	46.11
RP168180140A*	168.00	180.00	14.00	29.98
RP170180120A*	170.00	180.00	12.00	21.69
RP170190150A	170.00	190.00	15.00	22.95
RP170195120A*	170.00	195.00	12.00	53.90
RP170195150A*	170.00	195.00	15.00	59.62
RP170200150A	170.00	200.00	15.00	81.95
RP170200180A	170.00	200.00	18.00	98.35
RP170200220A*	170.00	200.00	22.00	24.95
RP170215200A*	170.00	215.00	20.00	170.55
RP175195150A*	175.00	195.00	15.00	50.05
RP175200150A	175.00	200.00	15.00	61.55
RP175205150A*	175.00	205.00	15.00	84.17
RP175215200A*	175.00	215.00	20.00	64.53
RP180190100A*	180.00	190.00	10.00	19.11
RP180200120A	180.00	200.00	12.00	55.32
RP180200150A	180.00	200.00	15.00	30.26
RP180200160A	180.00	200.00	16.00	54.98
RP180205150A	180.00	205.00	15.00	65.05
RP180205180A	180.00	205.00	18.00	85.28
RP180210150A	180.00	210.00	15.00	42.41
RP180210220A*	180.00	210.00	22.00	24.95
RP180215150A*	180.00	215.00	15.00	102.07
RP185195120A*	185.00	195.00	12.00	43.83
RP185200090A*	185.00	200.00	9.00	42.05
RP185200120A*	185.00	200.00	12.00	34.11
RP185200150A*	185.00	200.00	15.00	42.64
RP185205150A*	185.00	205.00	15.00	57.59
RP185210150A*	185.00	210.00	15.00	72.91
RP185215150A*	185.00	215.00	15.00	88.60
RP190205160A*	190.00	205.00	16.00	46.66
RP190210120A*	190.00	210.00	12.00	67.52
RP190210150A*	190.00	210.00	15.00	26.67
RP190215150A*	190.00	215.00	15.00	68.81
RP190220150A	190.00	220.00	15.00	90.81
RP190220220A*	190.00	220.00	22.00	133.19
RP190220250A*	190.00	220.00	25.00	38.77
RP190225300A*	190.00	225.00	30.00	72.54
RP200215120A*	200.00	215.00	12.00	36.77
RP200220120A	200.00	220.00	12.00	70.01
RP200220150A	200.00	220.00	15.00	50.81
RP200225150A	200.00	225.00	15.00	70.84
RP200225180A*	200.00	225.00	18.00	40.43

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP200230180A	200.00	230.00	18.00	34.77
RP200230220A*	200.00	230.00	22.00	55.89
RP200235200A*	200.00	235.00	20.00	64.53
RP200240200A*	200.00	240.00	20.00	76.09
RP210230150A	210.00	230.00	15.00	64.97
RP210235180A*	210.00	235.00	18.00	74.09
RP210240180A	210.00	240.00	18.00	42.72
RP215240180A*	215.00	240.00	18.00	100.78
RP215245180A*	215.00	245.00	18.00	76.09
RP220240120A	220.00	240.00	12.00	74.97
RP220250150A*	220.00	250.00	15.00	40.01
RP220250170A	220.00	250.00	17.00	75.64
RP220250180A	220.00	250.00	18.00	59.40
RP220250200A*	220.00	250.00	20.00	44.10
RP225240120A*	225.00	240.00	12.00	55.29
RP225245150A*	225.00	245.00	15.00	45.08
RP225250150A*	225.00	250.00	15.00	76.09
RP225255260A*	225.00	255.00	26.00	184.29
RP230250120A*	230.00	250.00	12.00	75.98
RP230250150A	230.00	250.00	15.00	40.01
RP230255180A*	230.00	255.00	18.00	107.43
RP230260180A*	230.00	260.00	18.00	76.09
RP235255120A*	235.00	255.00	12.00	76.09
RP240260160A	240.00	260.00	16.00	43.25
RP240265180A*	240.00	265.00	18.00	80.16
RP240270180A*	240.00	270.00	18.00	47.97
RP245275180A*	245.00	275.00	18.00	83.21
RP250270150A	250.00	270.00	15.00	80.81
RP250275180A*	250.00	275.00	18.00	93.37
RP250275190A*	250.00	275.00	19.00	89.94
RP250280180A	250.00	280.00	18.00	57.30
RP250280220A*	250.00	280.00	22.00	99.21
RP260280140A*	260.00	280.00	14.00	74.42
RP260280180A*	260.00	280.00	18.00	95.69
RP260290150A*	260.00	290.00	15.00	99.09
RP260290180A	260.00	290.00	18.00	49.61
RP265290170A*	265.00	290.00	17.00	68.56
RP265295180A*	265.00	295.00	18.00	109.94
RP270290170A*	270.00	290.00	17.00	56.01
RP270300180A	270.00	300.00	18.00	106.58
RP270300190A*	270.00	300.00	19.00	106.58
RP275300160A*	275.00	300.00	16.00	113.21
RP280300150A	280.00	300.00	15.00	66.86
RP280300180A*	280.00	300.00	18.00	102.77
RP280310180A	280.00	310.00	18.00	129.08
RP280310200A*	280.00	310.00	20.00	174.24
RP290310120A*	290.00	310.00	12.00	148.63
RP290320180A	290.00	320.00	18.00	162.14

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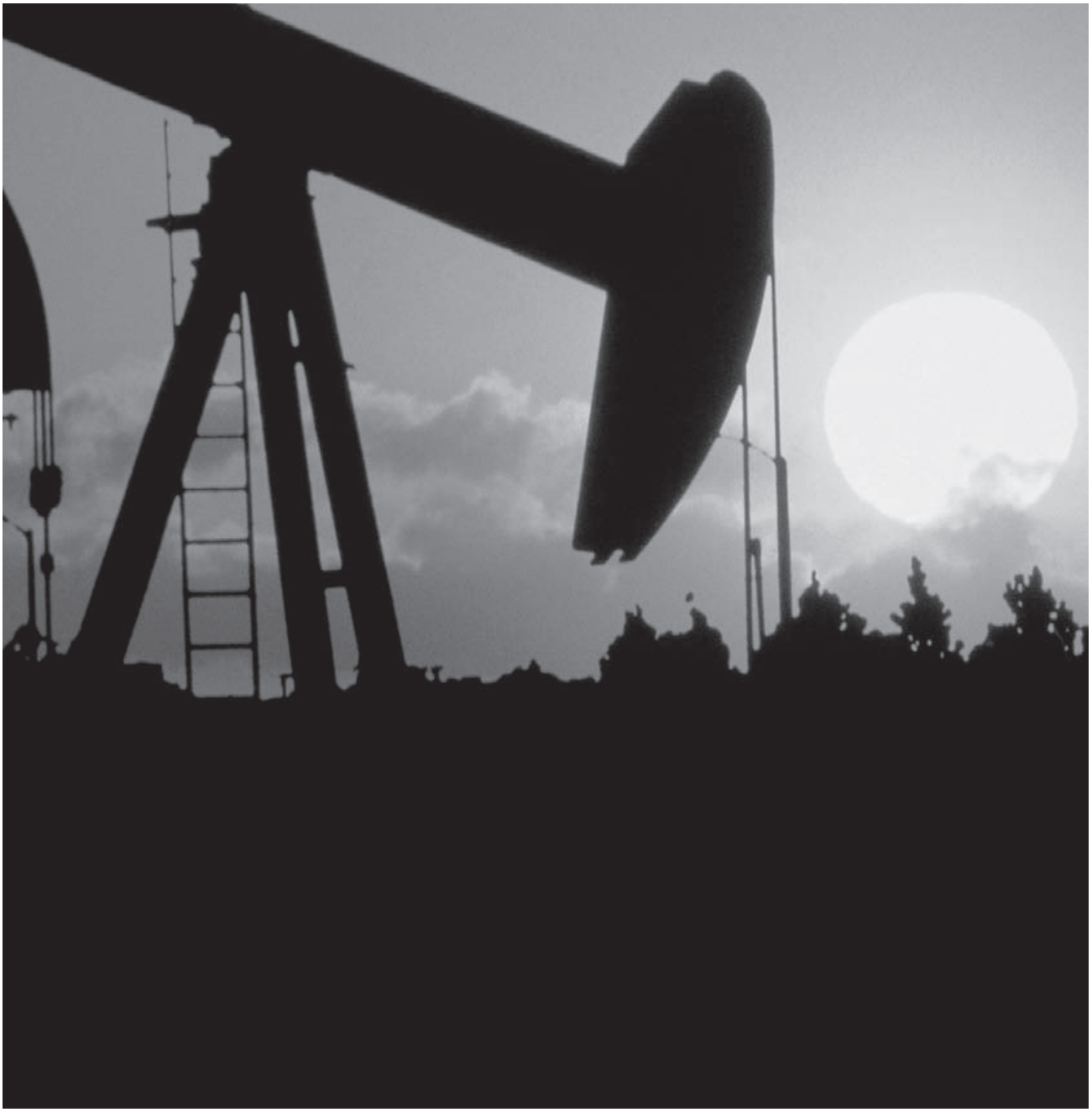
A SERIES - AU 92A

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP300320150A*	300.00	320.00	15.00	146.60
RP300330180A*	300.00	330.00	18.00	136.43
RP300330190A*	300.00	330.00	19.00	163.87
RP310330150A*	310.00	330.00	15.00	155.49
RP320350190A*	320.00	350.00	19.00	180.77
RP325360200A*	325.00	360.00	20.00	200.71
RP330350150A*	330.00	350.00	15.00	100.41
RP340360150A*	340.00	360.00	15.00	158.54

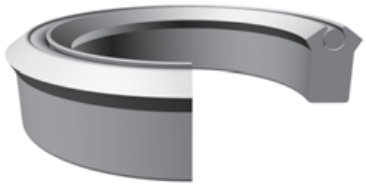
Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP360380160A*	360.00	380.00	16.00	162.60
RP370400220A*	370.00	400.00	22.00	250.14
RP375395120A*	375.00	395.00	12.00	154.73
RP375405220A*	375.00	405.00	22.00	117.22
RP400425190A*	400.00	425.00	19.00	182.80
RP400425250A*	400.00	425.00	25.00	125.59
RP430450150A*	430.00	450.00	15.00	166.67

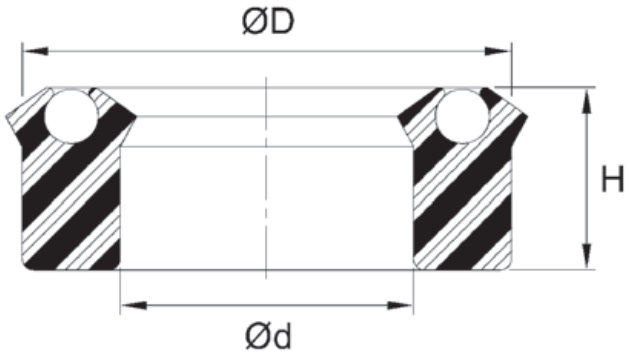
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**



B - Rod/Piston Seals

Polyurethane/Nitrile





Temperature: -40/230F [-40/110C]

Pressure: 5000 PSI [345 Bar]

Ref.Number	Nominal Seal Dimensions			$	Ref.Number	Nominal Seal Dimensions			$
	d	D	H			d	D	H	
RP006014057B	6.00	14.00	5.70	17.04	RP022030057B	22.00	30.00	5.70	7.18
RP008016057B*	8.00	16.00	5.70	14.57	RP022030060B*	22.00	30.00	6.00	6.86
RP009019080B*	9.00	19.00	8.00	4.76	RP022030070B*	22.00	30.00	7.00	7.62
RP010016060B*	10.00	16.00	6.00	5.23	RP022030080B*	22.00	30.00	8.00	7.76
RP010018057B	10.00	18.00	5.70	21.29	RP022032060B*	22.00	32.00	6.00	8.27
RP010020073B*	10.00	20.00	7.30	16.42	RP022032073B	22.00	32.00	7.30	21.32
RP010020080B*	10.00	20.00	8.00	4.69	RP022032080B	22.40	32.40	8.00	9.11
RP012022060B*	12.00	22.00	6.00	5.28	RP022035080B	22.00	35.00	8.00	7.28
RP012022073B	12.00	22.00	7.30	30.06	RP022035100B*	22.00	35.00	10.00	7.38
RP012022077B*	12.00	22.00	7.70	5.12	RP022040120B	22.00	40.00	12.00	8.71
RP012022080B*	12.50	22.50	8.00	5.55	RP024032070B	24.00	32.00	7.00	41.50
RP014022050B	14.00	22.00	5.00	5.55	RP025033050B	25.00	33.00	5.00	7.58
RP014024073B	14.00	24.00	7.30	17.60	RP025033057B	25.00	33.00	5.70	17.34
RP014024080B	14.00	24.00	8.00	5.55	RP025033080B	25.00	33.00	8.00	8.90
RP015023057B	15.00	23.00	5.70	24.07	RP025033100B*	25.00	33.00	10.00	8.21
RP015025080B*	15.00	25.00	8.00	5.85	RP025035073B	25.00	35.00	7.30	26.87
RP016022045B*	16.00	22.20	4.50	16.14	RP025035080B*	25.00	35.00	8.00	9.11
RP016024050B*	16.00	24.00	5.00	5.21	RP025035100B*	25.00	35.00	10.00	9.11
RP016024057B	16.00	24.00	5.70	22.50	RP025040100B	25.00	40.00	10.00	32.36
RP016026073B	16.00	26.00	7.30	20.34	RP028035050B*	28.00	35.50	5.00	8.94
RP016026080B*	16.00	26.00	8.00	5.85	RP028035065B	28.00	35.00	6.50	28.52
RP018024050B	18.00	24.00	5.00	19.83	RP028036057B	28.00	36.00	5.70	26.25
RP018026050B	18.00	26.00	5.00	5.99	RP028038073B*	28.00	38.00	7.30	26.67
RP018026057B*	18.00	26.00	5.70	19.19	RP028038080B	28.00	38.00	8.00	9.11
RP018028080B*	18.00	28.00	8.00	10.48	RP028038100B*	28.00	38.00	10.00	9.11
RP020026050B	20.00	26.00	5.00	5.25	RP028040100B*	28.00	40.00	10.00	9.11
RP020028050B	20.00	28.00	5.00	6.64	RP028043100B*	28.00	43.00	10.00	9.11
RP020028057B	20.00	28.00	5.70	18.24	RP030038057B	30.00	38.00	5.70	20.68
RP020028065B	20.00	28.00	6.50	30.01	RP030038063B*	30.00	38.00	6.30	20.68
RP020030060B*	20.00	30.00	6.00	7.30	RP030038070B*	30.00	38.00	7.00	28.19
RP020030073B	20.00	30.00	7.30	17.68	RP030038080B*	30.00	38.00	8.00	20.68
RP020030080B*	20.00	30.00	8.00	6.47	RP030040060B	30.00	40.00	6.00	10.30
RP020032060B*	20.00	32.00	6.00	7.12	RP030040070B	30.00	40.00	7.00	10.30
RP020032080B*	20.00	32.00	8.00	7.29	RP030040073B	30.00	40.00	7.30	10.30
RP020035100B*	20.00	35.00	10.00	11.64	RP030040100B	30.00	40.00	10.00	9.71
RP020035120B*	20.00	35.00	12.00	7.90	RP030042090B	30.00	42.00	9.00	10.56
RP020040120B	20.00	40.00	12.00	14.00	RP030042100B*	30.00	42.00	10.00	35.78
RP022030050B*	22.40	30.00	5.00	7.37	RP030045080B*	30.00	45.00	8.00	30.32

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

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP030045090B*	30.00	45.00	9.00	7.76
RP030045100B*	30.00	45.00	10.00	7.76
RP030045114B	30.00	45.00	11.40	36.17
RP030050100B*	30.00	50.00	10.00	8.54
RP032040057B	32.00	40.00	5.70	22.02
RP032040080B	32.00	40.00	8.00	8.26
RP032042073B	32.00	42.00	7.30	10.56
RP032042100B*	32.00	42.00	10.00	7.35
RP032047100B	32.00	47.00	10.00	8.45
RP032048100B	32.00	48.00	10.00	12.36
RP035043057B	35.00	43.00	5.70	27.94
RP035043065B*	35.00	43.00	6.50	22.28
RP035043080B*	35.00	43.00	8.00	22.28
RP035045060B	35.00	45.00	6.00	10.96
RP035045073B*	35.00	45.00	7.30	12.36
RP035045080B	35.00	45.00	8.00	26.42
RP035045100B	35.00	45.00	10.00	10.52
RP035047100B*	35.00	47.00	10.00	43.23
RP035050090B*	35.00	50.00	9.00	8.56
RP035050100B	35.00	50.00	10.00	8.56
RP035050114B*	35.00	50.00	11.40	43.23
RP035055100B*	35.00	55.00	10.00	12.63
RP036044057B	36.00	44.00	5.70	18.35
RP036044060B*	36.00	44.00	6.00	7.01
RP036046073B	36.00	46.00	7.30	21.38
RP036046100B*	36.00	46.00	10.00	11.85
RP036051114B*	36.00	51.00	11.40	103.36
RP040048050B*	40.00	48.00	5.00	7.75
RP040048057B	40.00	48.00	5.70	25.92
RP040048060B*	40.00	48.00	6.00	7.75
RP040048080B	40.00	48.00	8.00	7.75
RP040050060B	40.00	50.00	6.00	11.31
RP040050065B*	40.00	50.00	6.50	11.31
RP040050073B	40.00	50.00	7.30	12.50
RP040050080B*	40.00	50.00	8.00	11.82
RP040050100B	40.00	50.00	10.00	11.82
RP040052100B	40.00	52.00	10.00	29.73
RP040053080B	40.00	53.00	8.00	12.41
RP040055090B	40.00	55.00	9.00	12.41
RP040055100B	40.00	55.00	10.00	12.02
RP040060120B*	40.00	60.00	12.00	13.64
RP042050065B*	42.00	50.00	6.50	26.00
RP042055070B	42.00	55.00	7.00	12.41
RP045053080B	45.00	53.00	8.00	11.91
RP045055060B	45.00	55.00	6.00	12.02
RP045055073B	45.00	55.00	7.30	12.02
RP045055080B	45.00	55.00	8.00	36.87
RP045055100B	45.00	55.00	10.00	15.36

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP045060090B*	45.00	60.00	9.00	15.36
RP045060100B	45.00	60.00	10.00	15.64
RP045060114B	45.00	60.00	11.40	40.91
RP045065114B*	45.00	65.00	11.40	30.06
RP045065120B*	45.00	65.00	12.00	17.33
RP050058080B	50.00	58.00	8.00	28.97
RP050060060B	50.00	60.00	6.00	12.22
RP050060073B	50.00	60.00	7.30	14.28
RP050060075B	50.00	60.00	7.50	29.84
RP050060080B*	50.00	60.00	8.00	11.61
RP050060100B	50.00	60.00	10.00	11.61
RP050062095B	50.00	62.00	9.50	29.17
RP050063080B*	50.00	63.00	8.00	16.09
RP050063100B	50.00	63.00	10.00	31.07
RP050065090B	50.00	65.00	9.00	16.09
RP050065100B	50.00	65.00	10.00	17.28
RP050065114B	50.00	65.00	11.40	41.61
RP050070120B	50.00	70.00	12.00	18.17
RP053063060B	53.00	63.00	6.00	12.61
RP055065060B	55.00	65.00	6.00	13.67
RP055065073B*	55.00	65.00	7.30	26.90
RP055065100B*	55.00	65.00	10.00	19.64
RP055065110B*	55.00	65.00	11.00	38.30
RP055065120B	55.00	65.00	12.00	19.64
RP055070090B	55.00	70.00	9.00	17.12
RP055070120B*	55.00	70.00	12.00	18.40
RP055075120B*	55.00	75.00	12.00	20.59
RP055075145B	55.00	75.00	14.50	38.41
RP056066060B	56.00	66.00	6.00	13.08
RP056066100B	56.00	66.00	10.00	59.85
RP056071114B	56.00	71.00	11.40	55.62
RP060068070B	60.00	68.00	7.00	21.52
RP060068130B*	60.00	68.00	13.00	24.24
RP060070060B	60.00	70.00	6.00	13.29
RP060070073B	60.00	70.00	7.30	25.61
RP060070080B*	60.00	70.00	8.00	12.75
RP060070090B*	60.00	70.00	9.00	12.75
RP060070100B	60.00	70.00	10.00	12.75
RP060070105B*	60.00	70.00	10.50	33.51
RP060070120B	60.00	70.00	12.00	29.70
RP060071070B*	60.00	71.00	7.00	11.82
RP060072090B	60.00	72.00	9.00	34.77
RP060075090B*	60.00	75.00	9.00	17.77
RP060075100B*	60.00	75.00	10.00	17.77
RP060075135B	60.00	75.00	13.50	98.85
RP060080120B	60.00	80.00	12.00	18.50
RP063075087B	63.00	75.00	8.70	16.15
RP063078090B*	63.00	78.00	9.00	21.22

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

B SERIES - AU/NBR

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP063078100B*	63.00	78.00	10.00	21.22
RP063078106B*	63.00	78.00	10.60	21.22
RP063078114B	63.00	78.00	11.40	31.91
RP063083120B*	63.00	83.00	12.00	19.93
RP063083145B*	63.00	83.00	14.50	39.98
RP063083150B*	63.00	83.00	15.00	19.93
RP064080120B*	64.00	80.00	12.00	31.24
RP065073070B*	65.00	73.00	7.00	32.29
RP065075060B	65.00	75.00	6.00	19.93
RP065075080B*	65.00	75.00	8.00	19.93
RP065075100B	65.00	75.00	10.00	28.86
RP065075120B*	65.00	75.00	12.00	21.41
RP065080090B	65.00	80.00	9.00	14.91
RP065080100B*	65.00	80.00	10.00	16.50
RP065080120B*	65.00	80.00	12.00	17.89
RP065085120B*	65.00	85.00	12.00	19.68
RP070080060B	70.00	80.00	6.00	21.19
RP070080114B*	70.00	80.00	11.40	26.23
RP070082087B*	70.00	82.00	8.70	30.57
RP070082095B	70.00	82.00	9.50	34.94
RP070085090B	70.00	85.00	9.00	20.90
RP070085100B	70.00	85.00	10.00	21.82
RP070085114B	70.00	85.00	11.40	15.48
RP070090120B	70.00	90.00	12.00	19.76
RP070090145B	70.00	90.00	14.50	173.38
RP071080060B*	71.00	80.00	6.00	25.68
RP073080070B*	73.00	80.00	7.00	34.26
RP075085060B*	75.00	85.00	6.00	13.85
RP075085120B*	75.00	85.00	12.00	16.88
RP075090090B*	75.00	90.00	9.00	22.13
RP075090114B	75.00	90.00	11.40	59.71
RP075090124B*	75.00	90.00	12.40	59.71
RP075095120B*	75.00	95.00	12.00	23.13
RP080088065B*	80.00	88.00	6.50	59.70
RP080090060B	80.00	90.00	6.00	27.04
RP080090100B	80.00	90.00	10.00	81.28
RP080090114B	80.00	90.00	11.40	81.28
RP080092090B*	80.00	92.00	9.00	33.17
RP080092095B*	80.00	92.00	9.50	19.42
RP080095090B*	80.00	95.00	9.00	30.74
RP080095114B	80.00	95.00	11.40	30.74
RP080100120B	80.00	100.00	12.00	26.16
RP080100145B*	80.00	100.00	14.50	37.42
RP080100150B	80.00	100.00	15.00	127.82
RP082092100B*	82.00	92.00	10.00	107.71
RP085100090B*	85.00	100.00	9.00	17.80
RP085100095B	85.00	100.00	9.50	74.84
RP085100100B*	85.00	100.00	10.00	25.18

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP085100120B	85.00	100.00	12.00	40.80
RP085100125B*	85.00	100.00	12.50	31.10
RP085105120B*	85.00	105.00	12.00	31.10
RP090100060B	90.00	100.00	6.00	25.39
RP090100114B*	90.00	100.00	11.40	35.84
RP090100120B*	90.00	100.00	12.00	35.83
RP090105090B	90.00	105.00	9.00	27.59
RP090105114B	90.00	105.00	11.40	37.32
RP090105120B*	90.00	105.00	12.00	37.32
RP090110120B	90.00	110.00	12.00	39.86
RP090110145B	90.00	110.00	14.50	38.72
RP095105114B	95.00	105.00	11.40	56.01
RP095110090B*	95.00	110.00	9.00	39.95
RP095110100B*	95.00	110.00	10.00	39.95
RP095110114B	95.00	110.00	11.40	82.99
RP095110120B*	95.00	110.00	12.00	42.96
RP095115120B	95.00	115.00	12.00	39.86
RP097105130B*	97.00	105.00	13.00	84.34
RP100110114B*	100.00	110.00	11.40	49.37
RP100115090B	100.00	115.00	9.00	31.52
RP100115100B*	100.00	115.00	10.00	37.71
RP100115110B	100.00	115.00	11.00	88.46
RP100115120B*	100.00	115.00	12.00	37.71
RP100115146B	100.00	115.00	14.60	98.15
RP100120120B*	100.00	120.00	12.00	33.39
RP100120145B	100.00	120.00	14.50	48.56
RP100125124B*	100.00	125.00	12.40	52.16
RP100125150B*	100.00	125.00	15.00	53.42
RP100125182B*	100.00	125.00	18.20	163.41
RP105115100B*	105.00	115.00	10.00	68.28
RP105120090B	105.00	120.00	9.00	33.62
RP105120100B*	105.00	120.00	10.00	33.62
RP105120114B*	105.00	120.00	11.40	111.85
RP105125114B*	105.00	125.00	11.40	33.62
RP105125120B*	105.00	125.00	12.00	33.62
RP105125150B*	105.00	125.00	15.00	33.62
RP110125090B*	110.00	125.00	9.00	38.05
RP110125100B*	110.00	125.00	10.00	38.05
RP110125114B	110.00	125.00	11.40	52.51
RP110130100B*	110.00	130.00	10.00	34.89
RP110130120B	110.00	130.00	12.00	34.89
RP110130145B*	110.00	130.00	14.50	34.20
RP110130150B*	110.00	130.00	15.00	35.38
RP110135182B	110.00	135.00	18.20	107.37
RP115125114B*	115.00	125.00	11.40	46.76
RP115130114B	115.00	130.00	11.40	83.75
RP115135120B*	115.00	135.00	12.00	36.15
RP120130114B*	120.00	130.00	11.40	45.53

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

B SERIES - AU/NBR

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP120140100B*	120.00	140.00	10.00	45.20
RP120140120B*	120.00	140.00	12.00	45.20
RP120140145B*	120.00	140.00	14.50	36.65
RP120140150B	120.00	140.00	15.00	37.86
RP125135114B	125.00	135.00	11.40	41.13
RP125140090B*	125.00	140.00	9.00	36.11
RP125140114B*	125.00	140.00	11.40	80.72
RP125140150B*	125.00	140.00	15.00	41.24
RP125145145B*	125.00	145.00	14.50	67.55
RP125145150B*	125.00	145.00	15.00	39.78
RP125150180B*	125.00	150.00	18.00	48.20
RP125150182B*	125.00	150.00	18.20	83.41
RP130145090B*	130.00	145.00	9.00	54.64
RP130150120B*	130.00	150.00	12.00	36.42
RP130150130B*	130.00	150.00	13.00	36.42
RP130150150B	130.00	150.00	15.00	36.42
RP130150160B*	130.00	150.00	16.00	39.78
RP135150090B*	135.00	150.00	9.00	29.91
RP135155150B*	135.00	155.00	15.00	37.77
RP140160120B*	140.00	160.00	12.00	49.84
RP140160145B	140.00	160.00	14.50	93.70
RP140160150B*	140.00	160.00	15.00	41.03
RP140165182B*	140.00	165.00	18.20	49.91
RP145160090B*	145.00	160.00	9.00	35.45
RP150160114B	150.00	160.00	11.40	82.68
RP150170150B*	150.00	170.00	15.00	43.41
RP150170160B*	150.00	170.00	16.00	46.41
RP150180180B	150.00	180.00	18.00	61.71
RP155180150B*	155.00	180.00	15.00	51.64
RP155180160B	155.00	180.00	16.00	51.64
RP160175090B*	160.00	175.00	9.00	37.38
RP160180150B*	160.00	180.00	15.00	44.28
RP160185160B	160.00	185.00	16.00	44.28
RP160185182B	160.00	185.00	18.20	103.25
RP165180095B*	165.00	180.00	9.50	38.64
RP170190150B*	170.00	190.00	15.00	45.15
RP170195150B*	170.00	195.00	15.00	40.88
RP175200150B*	175.00	200.00	15.00	58.30
RP175200160B*	175.00	200.00	16.00	58.30
RP175200180B*	175.00	200.00	18.00	62.84
RP180190114B*	180.00	190.00	11.40	68.37
RP180200125B*	180.00	200.00	12.50	52.14

Ref.Number	Nominal Seal Dimensions			$
	d	D	H	
RP180200150B	180.00	200.00	15.00	136.90
RP180205160B*	180.00	205.00	16.00	54.51
RP180210227B	180.00	210.00	22.70	255.00
RP190210120B	190.00	210.00	12.00	54.46
RP190210150B*	190.00	210.00	15.00	55.83
RP190215150B*	190.00	215.00	15.00	63.53
RP190215160B*	190.00	215.00	16.00	63.53
RP200220125B*	200.00	220.00	12.50	57.96
RP200220150B*	200.00	220.00	15.00	57.96
RP200225150B*	200.00	225.00	15.00	66.85
RP200225160B*	200.00	225.00	16.00	66.85
RP200225180B*	200.00	225.00	18.00	66.85
RP200225182B*	200.00	225.00	18.20	272.23
RP205225182B*	205.00	225.00	18.20	275.07
RP205235180B*	205.00	235.00	18.00	119.33
RP210230120B*	210.00	230.00	12.00	125.05
RP210230145B*	210.00	230.00	14.50	332.54
RP220240150B*	220.00	240.00	15.00	268.22
RP220250180B*	220.00	250.00	18.00	338.20
RP220250227B	220.00	250.00	22.70	157.43
RP225250180B*	225.00	250.00	18.00	160.15
RP225250190B*	225.00	250.00	19.00	163.78
RP225255225B*	225.00	255.00	22.50	166.35
RP230250125B*	230.00	250.00	12.50	168.49
RP230250150B*	230.00	250.00	15.00	168.76
RP230255190B*	230.00	255.00	19.00	176.05
RP240260145B*	240.00	260.00	14.50	256.54
RP240265180B*	240.00	265.00	18.00	87.02
RP250270120B*	250.00	270.00	12.00	213.46
RP250275190B*	250.00	275.00	19.00	220.32
RP250280227B	250.00	280.00	22.70	122.70
RP250290200B*	250.00	290.00	20.00	O/R
RP260290180B*	260.00	290.00	18.00	O/R
RP270300190B*	270.00	300.00	19.00	O/R
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

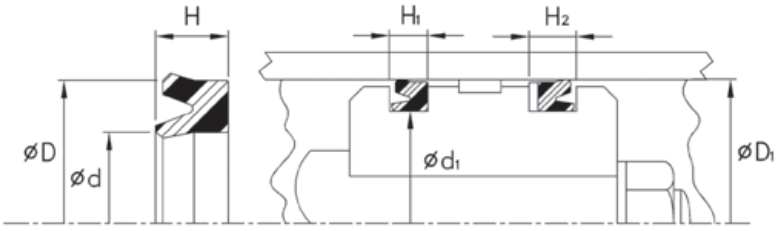
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

PUBLIC SERVICE ELECTRIC AND

	PB	L	2
	PB/N	L	14
	PH	L	17
	PR	L	18
	PZ	L	19
	PZ/B	L	21
	P1B	L	21
	P2B	L	23
	P2B/U	L	28
	ST/N	L	31
	P2G	L	32
	P3C	L	33
	P3D	L	35
	P4A	L	36
	P5B	L	38

PB - Piston Seals

Polyurethane AU 92A



N.B.: $H_2=H_1$ + B.UP RING THICKNESS

Temperature: -40/212F [-40/100C] **Pressure: 6000 PSI [415 Bar]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P012040040PB*	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
P012050053PB*	12.00	+0.08 / -0.00	12.00	5.00	5.30	12.00	+0.08 / -0.00	5.00	+0.00 / -0.06	6.00	+0.30 / -0.00	3.24
P014060060PB*	14.00	+0.08 / -0.00	14.00	6.00	6.00	14.00	+0.08 / -0.00	6.00	+0.00 / -0.06	7.00	+0.30 / -0.00	3.05
P014060080PB*	14.00	+0.08 / -0.00	14.00	6.00	8.00	14.00	+0.08 / -0.00	6.00	+0.00 / -0.06	9.00	+0.30 / -0.00	3.05
P014080045PB*	14.00	+0.08 / -0.00	14.00	8.00	4.50	14.00	+0.08 / -0.00	8.00	+0.00 / -0.06	5.00	+0.30 / -0.00	3.05
P014080063PB*	14.00	+0.08 / -0.00	14.00	8.00	6.30	14.00	+0.08 / -0.00	8.00	+0.00 / -0.06	6.80	+0.30 / -0.00	3.24
P015090080PB*	15.00	+0.08 / -0.00	15.00	9.00	8.00	15.00	+0.08 / -0.00	9.00	+0.00 / -0.06	9.00	+0.30 / -0.00	3.05
P016060100PB*	16.00	+0.08 / -0.00	16.00	6.00	10.00	16.00	+0.08 / -0.00	6.00	+0.00 / -0.06	11.00	+0.30 / -0.00	3.43
P016080055PB*	16.00	+0.08 / -0.00	16.00	8.00	5.50	16.00	+0.08 / -0.00	8.00	+0.00 / -0.06	6.50	+0.30 / -0.00	3.30
P016090055PB*	16.00	+0.08 / -0.00	16.00	9.00	5.50	16.00	+0.08 / -0.00	9.00	+0.00 / -0.06	6.50	+0.30 / -0.00	3.30
P016010040PB*	16.00	+0.08 / -0.00	16.00	10.00	4.00	16.00	+0.08 / -0.00	10.00	+0.00 / -0.06	4.50	+0.30 / -0.00	3.30
P016010055PB*	16.00	+0.08 / -0.00	16.00	10.00	5.50	16.00	+0.08 / -0.00	10.00	+0.00 / -0.06	6.50	+0.30 / -0.00	3.30
P016010060PB*	16.00	+0.08 / -0.00	16.00	10.00	6.00	16.00	+0.08 / -0.00	10.00	+0.00 / -0.06	6.50	+0.30 / -0.00	3.81
P016010080PB*	16.00	+0.08 / -0.00	16.00	10.00	8.00	16.00	+0.08 / -0.00	10.00	+0.00 / -0.06	9.00	+0.30 / -0.00	3.43
P020010060PB*	20.00	+0.08 / -0.00	20.00	10.00	6.00	20.00	+0.08 / -0.00	10.00	+0.00 / -0.06	7.00	+0.30 / -0.00	11.17
P020010075PB*	20.00	+0.08 / -0.00	20.00	10.00	7.50	20.00	+0.08 / -0.00	10.00	+0.00 / -0.06	8.50	+0.30 / -0.00	6.62
P020010080PB*	20.00	+0.08 / -0.00	20.00	10.00	8.00	20.00	+0.08 / -0.00	10.00	+0.00 / -0.06	9.00	+0.30 / -0.00	6.62
P020012050PB*	20.00	+0.08 / -0.00	20.00	12.00	5.00	20.00	+0.08 / -0.00	12.00	+0.00 / -0.07	6.00	+0.30 / -0.00	6.62
P020012055PB*	20.00	+0.08 / -0.00	20.00	12.00	5.50	20.00	+0.08 / -0.00	12.00	+0.00 / -0.07	6.50	+0.30 / -0.00	4.07
P020012065PB*	20.00	+0.08 / -0.00	20.00	12.00	6.50	20.00	+0.08 / -0.00	12.00	+0.00 / -0.07	7.50	+0.30 / -0.00	4.85
P020012070PB*	20.00	+0.08 / -0.00	20.00	12.00	7.00	20.00	+0.08 / -0.00	12.00	+0.00 / -0.07	8.00	+0.30 / -0.00	4.62
P020014042PB*	20.00	+0.08 / -0.00	20.00	14.00	4.20	20.00	+0.08 / -0.00	14.00	+0.00 / -0.07	4.70	+0.30 / -0.00	3.56
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	+0.08 / -0.00	20.00	14.00	5.30	20.00	+0.08 / -0.00	14.00	+0.00 / -0.07	6.00	+0.30 / -0.00	4.62
P020014055PB*	20.00	+0.08 / -0.00	20.00	14.00	5.50	20.00	+0.08 / -0.00	14.00	+0.00 / -0.07	6.50	+0.30 / -0.00	3.68
P022010080PB*	22.00	+0.08 / -0.00	22.00	10.00	8.00	22.00	+0.08 / -0.00	10.00	+0.00 / -0.07	9.00	+0.30 / -0.00	4.70
P022012080PB*	22.00	+0.08 / -0.00	22.00	12.00	8.00	22.00	+0.08 / -0.00	12.00	+0.00 / -0.07	9.00	+0.30 / -0.00	4.62
P022013070PB*	22.00	+0.08 / -0.00	22.00	13.00	7.00	22.00	+0.08 / -0.00	13.00	+0.00 / -0.07	8.00	+0.30 / -0.00	4.45
P022014050PB*	22.00	+0.08 / -0.00	22.00	14.00	5.00	22.00	+0.08 / -0.00	14.00	+0.00 / -0.07	6.00	+0.30 / -0.00	7.42
P022014090PB*	22.00	+0.08 / -0.00	22.00	14.00	9.00	22.00	+0.08 / -0.00	14.00	+0.00 / -0.07	10.00	+0.30 / -0.00	3.63
P022016040PB*	22.00	+0.08 / -0.00	22.00	16.00	4.00	22.00	+0.08 / -0.00	16.00	+0.00 / -0.07	4.50	+0.30 / -0.00	4.70
P022016055PB*	22.00	+0.08 / -0.00	22.00	16.00	5.50	22.00	+0.08 / -0.00	16.00	+0.00 / -0.07	6.50	+0.30 / -0.00	4.70
P024014075PB*	24.00	+0.08 / -0.00	24.00	14.00	7.50	24.00	+0.08 / -0.00	14.00	+0.00 / -0.07	8.50	+0.30 / -0.00	7.42
P024018053PB*	24.00	+0.08 / -0.00	24.00	18.00	5.30	24.00	+0.08 / -0.00	18.00	+0.00 / -0.07	6.00	+0.30 / -0.00	4.62
P025010100PB*	25.00	+0.08 / -0.00	25.00	10.00	10.00	25.00	+0.08 / -0.00	10.00	+0.00 / -0.07	11.00	+0.30 / -0.00	4.86
P025015050PB*	25.00	+0.08 / -0.00	25.00	15.00	5.00	25.00	+0.08 / -0.00	15.00	+0.00 / -0.07	6.00	+0.30 / -0.00	4.45
P025015060PB*	25.00	+0.08 / -0.00	25.00	15.00	6.00	25.00	+0.08 / -0.00	15.00	+0.00 / -0.07	7.00	+0.30 / -0.00	11.17
P025015080PB*	25.00	+0.08 / -0.00	25.00	15.00	8.00	25.00	+0.08 / -0.00	15.00	+0.00 / -0.07	9.00	+0.30 / -0.00	5.14

*** : 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.	
P025015082PB*	25.00	+0.08 / -0.00	25.00	15.00	8.20	25.00	+0.08 / -0.00	15.00	+0.00 / -0.07	9.00	+0.30 / -0.00	7.61
P025017050PB*	25.00	+0.08 / -0.00	25.00	17.00	5.00	25.00	+0.08 / -0.00	17.00	+0.00 / -0.07	6.00	+0.30 / -0.00	7.42
P025017055PB*	25.00	+0.08 / -0.00	25.00	17.00	5.50	25.00	+0.08 / -0.00	17.00	+0.00 / -0.07	6.50	+0.30 / -0.00	4.32
P025017057PB*	25.00	+0.08 / -0.00	25.00	17.00	5.70	25.00	+0.08 / -0.00	17.00	+0.00 / -0.07	6.30	+0.30 / -0.00	8.03
P025019030PB*	25.00	+0.08 / -0.00	25.00	19.00	3.00	25.00	+0.08 / -0.00	19.00	+0.00 / -0.07	3.50	+0.30 / -0.00	4.19
P025019060PB*	25.00	+0.08 / -0.00	25.00	19.00	6.00	25.00	+0.08 / -0.00	19.00	+0.00 / -0.07	7.00	+0.30 / -0.00	4.70
P026016075PB*	26.00	+0.08 / -0.00	26.00	16.00	7.50	26.00	+0.08 / -0.00	16.00	+0.00 / -0.07	8.50	+0.30 / -0.00	7.42
P026018050PB*	26.00	+0.08 / -0.00	26.00	18.00	5.00	26.00	+0.08 / -0.00	18.00	+0.00 / -0.07	6.00	+0.30 / -0.00	7.42
P026018055PB*	26.00	+0.08 / -0.00	26.00	18.00	5.50	26.00	+0.08 / -0.00	18.00	+0.00 / -0.07	6.50	+0.30 / -0.00	4.70
P026018070PB*	26.00	+0.08 / -0.00	26.00	18.00	7.00	26.00	+0.08 / -0.00	18.00	+0.00 / -0.07	8.00	+0.30 / -0.00	4.70
P028015100PB*	28.00	+0.08 / -0.00	28.00	15.00	10.00	28.00	+0.08 / -0.00	15.00	+0.00 / -0.07	11.00	+0.30 / -0.00	7.42
P028016090PB*	28.00	+0.08 / -0.00	28.00	16.00	9.00	28.00	+0.08 / -0.00	16.00	+0.00 / -0.07	10.00	+0.30 / -0.00	4.70
P028020050PB*	28.00	+0.08 / -0.00	28.00	20.00	5.00	28.00	+0.08 / -0.00	20.00	+0.00 / -0.08	6.00	+0.30 / -0.00	7.42
P028022063PB*	28.00	+0.08 / -0.00	28.00	22.20	6.30	28.00	+0.08 / -0.00	22.20	+0.00 / -0.08	7.30	+0.30 / -0.00	7.42
P030015100PB*	30.00	+0.08 / -0.00	30.00	15.00	10.00	30.00	+0.08 / -0.00	15.00	+0.00 / -0.07	11.00	+0.30 / -0.00	5.34
P030020050PB*	30.00	+0.08 / -0.00	30.00	20.00	5.00	30.00	+0.08 / -0.00	20.00	+0.00 / -0.08	6.00	+0.30 / -0.00	11.17
P030020060PB*	30.00	+0.08 / -0.00	30.00	20.00	6.00	30.00	+0.08 / -0.00	20.00	+0.00 / -0.08	7.00	+0.30 / -0.00	11.17
P030020070PB*	30.00	+0.08 / -0.00	30.00	20.00	7.00	30.00	+0.08 / -0.00	20.00	+0.00 / -0.08	8.00	+0.30 / -0.00	5.08
P030020080PB*	30.00	+0.08 / -0.00	30.00	20.00	8.00	30.00	+0.08 / -0.00	20.00	+0.00 / -0.08	9.00	+0.30 / -0.00	5.95
P030022060PB*	30.00	+0.08 / -0.00	30.00	22.00	6.00	30.00	+0.08 / -0.00	22.00	+0.00 / -0.08	7.00	+0.30 / -0.00	5.08
P030022065PB*	30.00	+0.08 / -0.00	30.00	22.00	6.50	30.00	+0.08 / -0.00	22.00	+0.00 / -0.08	7.50	+0.30 / -0.00	5.95
P032022050PB*	32.00	+0.08 / -0.00	32.00	22.00	5.00	32.00	+0.08 / -0.00	22.00	+0.00 / -0.08	6.00	+0.30 / -0.00	5.08
P032022060PB*	32.00	+0.08 / -0.00	32.00	22.00	6.00	32.00	+0.08 / -0.00	22.00	+0.00 / -0.08	7.00	+0.30 / -0.00	7.42
P032022070PB*	32.00	+0.08 / -0.00	32.00	22.00	7.00	32.00	+0.08 / -0.00	22.00	+0.00 / -0.08	8.00	+0.30 / -0.00	5.08
P032022080PB*	32.00	+0.08 / -0.00	32.00	22.00	8.00	32.00	+0.08 / -0.00	22.00	+0.00 / -0.08	9.00	+0.30 / -0.00	5.95
P032022100PB*	32.00	+0.08 / -0.00	32.00	22.00	10.00	32.00	+0.08 / -0.00	22.00	+0.00 / -0.08	11.00	+0.30 / -0.00	5.95
P032024055PB*	32.00	+0.08 / -0.00	32.00	24.00	5.50	32.00	+0.08 / -0.00	24.00	+0.00 / -0.08	6.50	+0.30 / -0.00	5.08
P032024057PB*	32.00	+0.08 / -0.00	32.00	24.00	5.70	32.00	+0.08 / -0.00	24.00	+0.00 / -0.08	6.30	+0.30 / -0.00	8.03
P032026053PB*	32.00	+0.08 / -0.00	32.00	26.00	5.30	32.00	+0.08 / -0.00	26.00	+0.00 / -0.08	6.00	+0.30 / -0.00	5.95
P033020100PB*	33.00	+0.08 / -0.00	33.00	20.00	10.00	33.00	+0.08 / -0.00	20.00	+0.00 / -0.08	11.00	+0.30 / -0.00	7.42
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	+0.08 / -0.00	34.00	22.00	8.50	34.00	+0.08 / -0.00	22.00	+0.00 / -0.08	9.50	+0.30 / -0.00	5.95
P034022090PB*	34.00	+0.08 / -0.00	34.00	22.00	9.00	34.00	+0.08 / -0.00	22.00	+0.00 / -0.08	10.00	+0.30 / -0.00	5.95
P035020100PB*	35.00	+0.08 / -0.00	35.00	20.00	10.00	35.00	+0.08 / -0.00	20.00	+0.00 / -0.08	11.00	+0.30 / -0.00	5.97
P035025060PB*	35.00	+0.08 / -0.00	35.00	25.00	6.00	35.00	+0.08 / -0.00	25.00	+0.00 / -0.08	7.00	+0.30 / -0.00	11.17
P035025065PB*	35.00	+0.08 / -0.00	35.00	25.00	6.50	35.00	+0.08 / -0.00	25.00	+0.00 / -0.08	7.50	+0.30 / -0.00	5.34
P035025070PB*	35.00	+0.08 / -0.00	35.00	25.00	7.00	35.00	+0.08 / -0.00	25.00	+0.00 / -0.08	8.00	+0.30 / -0.00	5.34
P035025073PB*	35.00	+0.08 / -0.00	35.00	25.00	7.30	35.00	+0.08 / -0.00	25.00	+0.00 / -0.08	8.00	+0.30 / -0.00	8.74
P035025080PB*	35.00	+0.08 / -0.00	35.00	25.00	8.00	35.00	+0.08 / -0.00	25.00	+0.00 / -0.08	9.00	+0.30 / -0.00	5.72
P035025100PB*	35.00	+0.08 / -0.00	35.00	25.00	10.00	35.00	+0.08 / -0.00	25.00	+0.00 / -0.08	11.00	+0.30 / -0.00	7.42
P035027050PB*	35.00	+0.08 / -0.00	35.00	27.00	5.00	35.00	+0.08 / -0.00	27.00	+0.00 / -0.08	6.00	+0.30 / -0.00	6.29
P035027100PB*	35.00	+0.08 / -0.00	35.00	27.00	10.00	35.00	+0.08 / -0.00	27.00	+0.00 / -0.08	11.00	+0.30 / -0.00	5.84
P036024060PB*	36.00	+0.08 / -0.00	36.00	24.00	6.00	36.00	+0.08 / -0.00	24.00	+0.00 / -0.08	7.00	+0.30 / -0.00	5.59
P036026070PB*	36.00	+0.08 / -0.00	36.00	26.00	7.00	36.00	+0.08 / -0.00	26.00	+0.00 / -0.08	8.00	+0.30 / -0.00	4.54
P036028070PB*	36.00	+0.08 / -0.00	36.00	28.00	7.00	36.00	+0.08 / -0.00	28.00	+0.00 / -0.08	8.00	+0.30 / -0.00	5.59
P037021118PB*	37.00	+0.08 / -0.00	37.00	21.00	11.80	37.00	+0.08 / -0.00	21.00	+0.00 / -0.08	13.00	+0.30 / -0.00	9.36
P037021120PB*	37.00	+0.08 / -0.00	37.00	21.00	12.00	37.00	+0.08 / -0.00	21.00	+0.00 / -0.08	13.00	+0.30 / -0.00	6.61
P038025100PB*	38.00	+0.08 / -0.00	38.00	25.00	10.00	38.00	+0.08 / -0.00	25.00	+0.00 / -0.08	11.00	+0.30 / -0.00	8.23

*** : 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.	
P038028070PB*	38.00	+0.08 / -0.00	38.00	28.00	7.00	38.00	+0.08 / -0.00	28.00	+0.00 / -0.08	8.00	+0.30 / -0.00	5.59
P038029070PB*	38.00	+0.08 / -0.00	38.00	29.00	7.00	38.00	+0.08 / -0.00	29.00	+0.00 / -0.08	8.00	+0.30 / -0.00	8.23
P038031047PB*	38.00	+0.08 / -0.00	38.00	31.00	4.70	38.00	+0.08 / -0.00	31.00	+0.00 / -0.10	5.20	+0.30 / -0.00	6.76
P038031052PB*	38.00	+0.08 / -0.00	38.00	31.00	5.20	38.00	+0.08 / -0.00	31.00	+0.00 / -0.10	6.00	+0.30 / -0.00	11.83
P038032060PB*	38.00	+0.08 / -0.00	38.00	32.00	6.00	38.00	+0.08 / -0.00	32.00	+0.00 / -0.10	7.00	+0.30 / -0.00	8.23
P039032050PB*	39.00	+0.08 / -0.00	39.00	32.00	5.00	39.00	+0.08 / -0.00	32.00	+0.00 / -0.10	6.00	+0.30 / -0.00	5.08
P040025090PB*	40.00	+0.08 / -0.00	40.00	25.00	9.00	40.00	+0.08 / -0.00	25.00	+0.00 / -0.08	10.00	+0.30 / -0.00	8.23
P040025100PB*	40.00	+0.08 / -0.00	40.00	25.00	10.00	40.00	+0.08 / -0.00	25.00	+0.00 / -0.08	11.00	+0.30 / -0.00	7.05
P040027080PB*	40.00	+0.08 / -0.00	40.00	27.00	8.00	40.00	+0.08 / -0.00	27.00	+0.00 / -0.08	9.00	+0.30 / -0.00	8.23
P040027100PB*	40.00	+0.08 / -0.00	40.00	27.00	10.00	40.00	+0.08 / -0.00	27.00	+0.00 / -0.08	11.00	+0.30 / -0.00	8.23
P040028090PB*	40.00	+0.08 / -0.00	40.00	28.00	9.00	40.00	+0.08 / -0.00	28.00	+0.00 / -0.08	10.00	+0.30 / -0.00	5.97
P040028100PB*	40.00	+0.08 / -0.00	40.00	28.00	10.00	40.00	+0.08 / -0.00	28.00	+0.00 / -0.08	11.00	+0.30 / -0.00	5.97
P040030050PB*	40.00	+0.08 / -0.00	40.00	30.00	5.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.08	6.00	+0.30 / -0.00	5.97
P040030060PB	40.00	+0.08 / -0.00	40.00	30.00	6.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.08	7.00	+0.30 / -0.00	5.97
P040030070PB*	40.00	+0.08 / -0.00	40.00	30.00	7.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.08	8.00	+0.30 / -0.00	5.97
P040030073PB*	40.00	+0.08 / -0.00	40.00	30.00	7.30	40.00	+0.08 / -0.00	30.00	+0.00 / -0.08	8.00	+0.30 / -0.00	7.96
P040030080PB*	40.00	+0.08 / -0.00	40.00	30.00	8.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.08	9.00	+0.30 / -0.00	8.23
P040030100PB*	40.00	+0.08 / -0.00	40.00	30.00	10.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.08	11.00	+0.30 / -0.00	7.05
P040032032PB*	40.00	+0.08 / -0.00	40.00	32.00	3.25	40.00	+0.08 / -0.00	32.00	+0.00 / -0.10	3.75	+0.30 / -0.00	5.84
P040032055PB*	40.00	+0.08 / -0.00	40.00	32.00	5.50	40.00	+0.08 / -0.00	32.00	+0.00 / -0.10	6.50	+0.30 / -0.00	5.97
P040032080PB*	40.00	+0.08 / -0.00	40.00	32.00	8.00	40.00	+0.08 / -0.00	32.00	+0.00 / -0.10	9.00	+0.30 / -0.00	7.05
P040033080PB*	40.00	+0.08 / -0.00	40.00	33.00	8.00	40.00	+0.08 / -0.00	33.00	+0.00 / -0.10	9.00	+0.30 / -0.00	7.05
P042032100PB*	42.00	+0.08 / -0.00	42.00	32.00	10.00	42.00	+0.08 / -0.00	32.00	+0.00 / -0.10	11.00	+0.30 / -0.00	7.05
P042034040PB*	42.00	+0.08 / -0.00	42.00	34.50	4.00	42.00	+0.08 / -0.00	34.50	+0.00 / -0.10	4.70	+0.30 / -0.00	7.27
P042035050PB*	42.00	+0.08 / -0.00	42.00	35.00	5.00	42.00	+0.08 / -0.00	35.00	+0.00 / -0.10	5.70	+0.30 / -0.00	8.30
P043025090PB*	43.00	+0.08 / -0.00	43.00	25.00	9.00	43.00	+0.08 / -0.00	25.00	+0.00 / -0.08	10.00	+0.30 / -0.00	7.57
P043030100PB*	43.00	+0.08 / -0.00	43.00	30.00	10.00	43.00	+0.08 / -0.00	30.00	+0.00 / -0.08	11.00	+0.30 / -0.00	8.23
P043035090PB*	43.00	+0.08 / -0.00	43.00	35.00	9.00	43.00	+0.08 / -0.00	35.00	+0.00 / -0.10	10.00	+0.30 / -0.00	7.24
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	+0.08 / -0.00	44.00	20.00	11.00	44.00	+0.08 / -0.00	20.00	+0.00 / -0.08	12.00	+0.30 / -0.00	9.48
P045030090PB*	45.00	+0.08 / -0.00	45.00	30.00	9.00	45.00	+0.08 / -0.00	30.00	+0.00 / -0.08	10.00	+0.30 / -0.00	12.34
P045030100PB*	45.00	+0.08 / -0.00	45.00	30.00	10.00	45.00	+0.08 / -0.00	30.00	+0.00 / -0.08	11.00	+0.30 / -0.00	7.49
P045032100PB*	45.00	+0.08 / -0.00	45.00	32.00	10.00	45.00	+0.08 / -0.00	32.00	+0.00 / -0.10	11.00	+0.30 / -0.00	8.23
P045035060PB*	45.00	+0.08 / -0.00	45.00	35.00	6.00	45.00	+0.08 / -0.00	35.00	+0.00 / -0.10	7.00	+0.30 / -0.00	7.24
P045035070PB*	45.00	+0.08 / -0.00	45.00	35.00	7.00	45.00	+0.08 / -0.00	35.00	+0.00 / -0.10	8.00	+0.30 / -0.00	6.32
P045035073PB*	45.00	+0.08 / -0.00	45.00	35.00	7.30	45.00	+0.08 / -0.00	35.00	+0.00 / -0.10	8.00	+0.30 / -0.00	10.56
P045035080PB*	45.00	+0.08 / -0.00	45.00	35.00	8.00	45.00	+0.08 / -0.00	35.00	+0.00 / -0.10	9.00	+0.30 / -0.00	8.38
P045037070PB*	45.00	+0.08 / -0.00	45.00	37.00	7.00	45.00	+0.08 / -0.00	37.00	+0.00 / -0.10	8.00	+0.30 / -0.00	7.24
P045038060PB*	45.00	+0.08 / -0.00	45.00	38.00	6.00	45.00	+0.08 / -0.00	38.00	+0.00 / -0.10	7.00	+0.30 / -0.00	7.24
P050030120PB*	50.00	+0.08 / -0.00	50.00	30.00	12.00	50.00	+0.08 / -0.00	30.00	+0.00 / -0.08	13.00	+0.30 / -0.00	9.48
P050032100PB*	50.00	+0.08 / -0.00	50.00	32.00	10.00	50.00	+0.08 / -0.00	32.00	+0.00 / -0.10	11.00	+0.30 / -0.00	7.21
P050034120PB*	50.00	+0.08 / -0.00	50.00	34.00	12.00	50.00	+0.08 / -0.00	34.00	+0.00 / -0.10	13.00	+0.30 / -0.00	9.36
P050035090PB	50.00	+0.08 / -0.00	50.00	35.00	9.00	50.00	+0.08 / -0.00	35.00	+0.00 / -0.10	10.00	+0.30 / -0.00	14.05
P050035100PB*	50.00	+0.08 / -0.00	50.00	35.00	10.00	50.00	+0.08 / -0.00	35.00	+0.00 / -0.10	11.00	+0.30 / -0.00	9.48
P050035120PB*	50.00	+0.08 / -0.00	50.00	35.00	12.00	50.00	+0.08 / -0.00	35.00	+0.00 / -0.10	13.00	+0.30 / -0.00	9.19
P050036100PB*	50.00	+0.08 / -0.00	50.00	36.00	10.00	50.00	+0.08 / -0.00	36.00	+0.00 / -0.10	11.00	+0.30 / -0.00	7.83
P050038060PB*	50.00	+0.08 / -0.00	50.00	38.00	6.00	50.00	+0.08 / -0.00	38.00	+0.00 / -0.10	7.00	+0.30 / -0.00	7.24
P050038070PB*	50.00	+0.08 / -0.00	50.00	38.00	7.00	50.00	+0.08 / -0.00	38.00	+0.00 / -0.10	8.00	+0.30 / -0.00	5.90

*** : 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.	
P050040050PB*	50.00	+0.08 / -0.00	50.00	40.00	5.00	50.00	+0.08 / -0.00	40.00	+0.00 / -0.10	6.00	+0.30 / -0.00	7.24
P050040060PB	50.00	+0.08 / -0.00	50.00	40.00	6.00	50.00	+0.08 / -0.00	40.00	+0.00 / -0.10	7.00	+0.30 / -0.00	10.22
P050040070PB*	50.00	+0.08 / -0.00	50.00	40.00	7.00	50.00	+0.08 / -0.00	40.00	+0.00 / -0.10	8.00	+0.30 / -0.00	7.24
P050040078PB*	50.00	+0.08 / -0.00	50.00	40.00	7.80	50.00	+0.08 / -0.00	40.00	+0.00 / -0.10	8.00	+0.30 / -0.00	12.16
P050040080PB*	50.00	+0.08 / -0.00	50.00	40.00	8.00	50.00	+0.08 / -0.00	40.00	+0.00 / -0.10	9.00	+0.30 / -0.00	9.36
P050040100PB*	50.00	+0.08 / -0.00	50.00	40.00	10.00	50.00	+0.08 / -0.00	40.00	+0.00 / -0.10	11.00	+0.30 / -0.00	8.96
P050042035PB*	50.00	+0.08 / -0.00	50.00	42.00	3.50	50.00	+0.08 / -0.00	42.00	+0.00 / -0.10	4.00	+0.30 / -0.00	8.96
P050042050PB*	50.00	+0.08 / -0.00	50.00	42.00	5.00	50.00	+0.08 / -0.00	42.00	+0.00 / -0.10	6.00	+0.30 / -0.00	8.81
P050042053PB*	50.00	+0.08 / -0.00	50.00	42.00	5.30	50.00	+0.08 / -0.00	42.00	+0.00 / -0.10	6.00	+0.30 / -0.00	8.96
P050042073PB*	50.00	+0.08 / -0.00	50.00	42.00	7.30	50.00	+0.08 / -0.00	42.00	+0.00 / -0.10	8.00	+0.30 / -0.00	8.96
P050042080PB*	50.00	+0.08 / -0.00	50.00	42.00	8.00	50.00	+0.08 / -0.00	42.00	+0.00 / -0.10	9.00	+0.30 / -0.00	8.96
P050042100PB	50.00	+0.08 / -0.00	50.00	42.00	10.00	50.00	+0.08 / -0.00	42.00	+0.00 / -0.10	11.00	+0.30 / -0.00	7.24
P052042050PB*	52.00	+0.08 / -0.00	52.00	42.00	5.00	52.00	+0.08 / -0.00	42.00	+0.00 / -0.10	6.00	+0.30 / -0.00	7.24
P055040090PB*	55.00	+0.08 / -0.00	55.00	40.00	9.00	55.00	+0.08 / -0.00	40.00	+0.00 / -0.10	10.00	+0.30 / -0.00	9.36
P055040100PB*	55.00	+0.08 / -0.00	55.00	40.00	10.00	55.00	+0.08 / -0.00	40.00	+0.00 / -0.10	11.00	+0.30 / -0.00	9.48
P055041100PB*	55.00	+0.08 / -0.00	55.00	41.00	10.00	55.00	+0.08 / -0.00	41.00	+0.00 / -0.10	11.00	+0.30 / -0.00	11.54
P055045060PB*	55.00	+0.08 / -0.00	55.00	45.00	6.00	55.00	+0.08 / -0.00	45.00	+0.00 / -0.10	7.00	+0.30 / -0.00	11.75
P055045070PB*	55.00	+0.08 / -0.00	55.00	45.00	7.00	55.00	+0.08 / -0.00	45.00	+0.00 / -0.10	8.00	+0.30 / -0.00	8.13
P055045073PB*	55.00	+0.08 / -0.00	55.00	45.00	7.30	55.00	+0.08 / -0.00	45.00	+0.00 / -0.10	8.00	+0.30 / -0.00	12.16
P055045075PB*	55.00	+0.08 / -0.00	55.00	45.00	7.50	55.00	+0.08 / -0.00	45.00	+0.00 / -0.10	8.50	+0.30 / -0.00	8.13
P055045100PB*	55.00	+0.08 / -0.00	55.00	45.00	10.00	55.00	+0.08 / -0.00	45.00	+0.00 / -0.10	11.00	+0.30 / -0.00	8.13
P055047055PB*	55.00	+0.08 / -0.00	55.00	47.00	5.50	55.00	+0.08 / -0.00	47.00	+0.00 / -0.10	6.30	+0.30 / -0.00	9.25
P055047057PB*	55.00	+0.08 / -0.00	55.00	47.00	5.70	55.00	+0.08 / -0.00	47.00	+0.00 / -0.10	6.30	+0.30 / -0.00	9.48
P056040120PB*	56.00	+0.08 / -0.00	56.00	40.00	12.00	56.00	+0.08 / -0.00	40.00	+0.00 / -0.10	13.00	+0.30 / -0.00	11.54
P056041100PB*	56.00	+0.08 / -0.00	56.00	41.00	10.00	56.00	+0.08 / -0.00	41.00	+0.00 / -0.10	11.00	+0.30 / -0.00	11.54
P056045070PB*	56.00	+0.08 / -0.00	56.00	45.00	7.00	56.00	+0.08 / -0.00	45.00	+0.00 / -0.10	8.00	+0.30 / -0.00	8.96
P056046060PB*	56.00	+0.08 / -0.00	56.00	46.00	6.00	56.00	+0.08 / -0.00	46.00	+0.00 / -0.10	7.00	+0.30 / -0.00	8.96
P056046070PB*	56.00	+0.08 / -0.00	56.00	46.00	7.00	56.00	+0.08 / -0.00	46.00	+0.00 / -0.10	8.00	+0.30 / -0.00	7.88
P058048060PB*	58.00	+0.08 / -0.00	58.00	48.00	6.00	58.00	+0.08 / -0.00	48.00	+0.00 / -0.10	7.00	+0.30 / -0.00	9.84
P060040090PB*	60.00	+0.08 / -0.00	60.00	40.00	9.00	60.00	+0.08 / -0.00	40.00	+0.00 / -0.10	10.00	+0.30 / -0.00	10.55
P060040120PB*	60.00	+0.08 / -0.00	60.00	40.00	12.00	60.00	+0.08 / -0.00	40.00	+0.00 / -0.10	13.00	+0.30 / -0.00	10.05
P060040135PB*	60.00	+0.08 / -0.00	60.00	40.00	13.50	60.00	+0.08 / -0.00	40.00	+0.00 / -0.10	14.50	+0.30 / -0.00	10.05
P060044120PB*	60.00	+0.08 / -0.00	60.00	44.00	12.00	60.00	+0.08 / -0.00	44.00	+0.00 / -0.10	13.00	+0.30 / -0.00	9.02
P060045100PB*	60.00	+0.08 / -0.00	60.00	45.00	10.00	60.00	+0.08 / -0.00	45.00	+0.00 / -0.10	11.00	+0.30 / -0.00	9.41
P060050050PB*	60.00	+0.08 / -0.00	60.00	50.00	5.00	60.00	+0.08 / -0.00	50.00	+0.00 / -0.10	5.50	+0.30 / -0.00	9.77
P060050060PB	60.00	+0.08 / -0.00	60.00	50.00	6.00	60.00	+0.08 / -0.00	50.00	+0.00 / -0.10	7.00	+0.30 / -0.00	11.78
P060050070PB*	60.00	+0.08 / -0.00	60.00	50.00	7.00	60.00	+0.08 / -0.00	50.00	+0.00 / -0.10	8.00	+0.30 / -0.00	8.77
P060050073PB*	60.00	+0.08 / -0.00	60.00	50.00	7.30	60.00	+0.08 / -0.00	50.00	+0.00 / -0.10	8.30	+0.30 / -0.00	8.77
P060050100PB*	60.00	+0.08 / -0.00	60.00	50.00	10.00	60.00	+0.08 / -0.00	50.00	+0.00 / -0.10	11.00	+0.30 / -0.00	9.02
P060052080PB*	60.00	+0.08 / -0.00	60.00	52.00	8.00	60.00	+0.08 / -0.00	52.00	+0.00 / -0.12	9.00	+0.30 / -0.00	9.77
P062052070PB*	62.00	+0.08 / -0.00	62.00	52.00	7.00	62.00	+0.08 / -0.00	52.00	+0.00 / -0.12	8.00	+0.30 / -0.00	8.89
P063043120PB*	63.00	+0.08 / -0.00	63.00	43.00	12.00	63.00	+0.08 / -0.00	43.00	+0.00 / -0.10	13.00	+0.30 / -0.00	13.61
P063045100PB*	63.00	+0.08 / -0.00	63.00	45.00	10.00	63.00	+0.08 / -0.00	45.00	+0.00 / -0.10	11.00	+0.30 / -0.00	11.12
P063047120PB*	63.00	+0.08 / -0.00	63.00	47.00	12.00	63.00	+0.08 / -0.00	47.00	+0.00 / -0.10	13.00	+0.30 / -0.00	11.54
P063048090PB	63.00	+0.08 / -0.00	63.00	48.00	9.00	63.00	+0.08 / -0.00	48.00	+0.00 / -0.10	10.00	+0.30 / -0.00	17.29
P063048100PB	63.00	+0.08 / -0.00	63.00	48.00	10.00	63.00	+0.08 / -0.00	48.00	+0.00 / -0.10	11.00	+0.30 / -0.00	9.87
P063048114PB*	63.00	+0.08 / -0.00	63.00	48.00	11.40	63.00	+0.08 / -0.00	48.00	+0.00 / -0.10	12.50	+0.30 / -0.00	10.82
P063048120PB*	63.00	+0.08 / -0.00	63.00	48.00	12.00	63.00	+0.08 / -0.00	48.00	+0.00 / -0.10	13.00	+0.30 / -0.00	10.05

*** : 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.	
P063050090PB*	63.00	+0.08 / -0.00	63.00	50.00	9.00	63.00	+0.08 / -0.00	50.00	+0.00 / -0.10	10.00	+0.30 / -0.00	9.65
P063053042PB*	63.00	+0.08 / -0.00	63.00	53.00	4.25	63.00	+0.08 / -0.00	53.00	+0.00 / -0.12	4.75	+0.30 / -0.00	8.89
P063053060PB	63.00	+0.08 / -0.00	63.00	53.00	6.00	63.00	+0.08 / -0.00	53.00	+0.00 / -0.12	7.00	+0.30 / -0.00	8.89
P063053073PB	63.00	+0.08 / -0.00	63.00	53.00	7.30	63.00	+0.08 / -0.00	53.00	+0.00 / -0.12	8.00	+0.30 / -0.00	10.46
P063053080PB*	63.00	+0.08 / -0.00	63.00	53.00	8.00	63.00	+0.08 / -0.00	53.00	+0.00 / -0.12	9.00	+0.30 / -0.00	11.54
P063053118PB*	63.00	+0.08 / -0.00	63.00	53.00	11.80	63.00	+0.08 / -0.00	53.00	+0.00 / -0.12	13.00	+0.30 / -0.00	8.79
P063053120PB*	63.00	+0.08 / -0.00	63.00	53.00	12.00	63.00	+0.08 / -0.00	53.00	+0.00 / -0.12	13.00	+0.30 / -0.00	10.58
P063055057PB*	63.00	+0.08 / -0.00	63.00	55.00	5.70	63.00	+0.08 / -0.00	55.00	+0.00 / -0.12	6.30	+0.30 / -0.00	10.58
P065045120PB*	65.00	+0.08 / -0.00	65.00	45.00	12.00	65.00	+0.08 / -0.00	45.00	+0.00 / -0.10	13.00	+0.30 / -0.00	10.58
P065045135PB*	65.00	+0.08 / -0.00	65.00	45.00	13.50	65.00	+0.08 / -0.00	45.00	+0.00 / -0.10	14.50	+0.30 / -0.00	10.58
P065050090PB*	65.00	+0.08 / -0.00	65.00	50.00	9.00	65.00	+0.08 / -0.00	50.00	+0.00 / -0.10	10.00	+0.30 / -0.00	12.35
P065050100PB*	65.00	+0.08 / -0.00	65.00	50.00	10.00	65.00	+0.08 / -0.00	50.00	+0.00 / -0.10	11.00	+0.30 / -0.00	10.58
P065050115PB*	65.00	+0.08 / -0.00	65.00	50.00	11.50	65.00	+0.08 / -0.00	50.00	+0.00 / -0.10	12.50	+0.30 / -0.00	10.58
P065055060PB*	65.00	+0.08 / -0.00	65.00	55.00	6.00	65.00	+0.08 / -0.00	55.00	+0.00 / -0.12	7.00	+0.30 / -0.00	18.55
P065055070PB*	65.00	+0.08 / -0.00	65.00	55.00	7.00	65.00	+0.08 / -0.00	55.00	+0.00 / -0.12	8.00	+0.30 / -0.00	9.27
P065055080PB*	65.00	+0.08 / -0.00	65.00	55.00	8.00	65.00	+0.08 / -0.00	55.00	+0.00 / -0.12	9.00	+0.30 / -0.00	12.35
P065055100PB*	65.00	+0.08 / -0.00	65.00	55.00	10.00	65.00	+0.08 / -0.00	55.00	+0.00 / -0.12	11.00	+0.30 / -0.00	10.58
P065055135PB*	65.00	+0.08 / -0.00	65.00	55.00	13.50	65.00	+0.08 / -0.00	55.00	+0.00 / -0.12	14.50	+0.30 / -0.00	10.58
P065057073PB*	65.00	+0.08 / -0.00	65.00	57.00	7.30	65.00	+0.08 / -0.00	57.00	+0.00 / -0.12	8.00	+0.30 / -0.00	11.10
P066050120PB*	66.00	+0.08 / -0.00	66.00	50.00	12.00	66.00	+0.08 / -0.00	50.00	+0.00 / -0.10	13.00	+0.30 / -0.00	12.35
P066056060PB*	66.00	+0.08 / -0.00	66.00	56.00	6.00	66.00	+0.08 / -0.00	56.00	+0.00 / -0.12	7.00	+0.30 / -0.00	10.57
P068048100PB*	68.00	+0.08 / -0.00	68.00	48.00	10.00	68.00	+0.08 / -0.00	48.00	+0.00 / -0.10	11.00	+0.30 / -0.00	11.10
P069053120PB*	69.00	+0.08 / -0.00	69.00	53.00	12.00	69.00	+0.08 / -0.00	53.00	+0.00 / -0.12	13.00	+0.30 / -0.00	12.35
P070050120PB*	70.00	+0.08 / -0.00	70.00	50.00	12.00	70.00	+0.08 / -0.00	50.00	+0.00 / -0.10	13.00	+0.30 / -0.00	15.77
P070050135PB*	70.00	+0.08 / -0.00	70.00	50.00	13.50	70.00	+0.08 / -0.00	50.00	+0.00 / -0.10	14.50	+0.30 / -0.00	11.10
P070050140PB*	70.00	+0.08 / -0.00	70.00	50.00	14.00	70.00	+0.08 / -0.00	50.00	+0.00 / -0.10	15.00	+0.30 / -0.00	9.91
P070050150PB*	70.00	+0.08 / -0.00	70.00	50.00	15.00	70.00	+0.08 / -0.00	50.00	+0.00 / -0.10	16.00	+0.30 / -0.00	11.10
P070055090PB*	70.00	+0.08 / -0.00	70.00	55.00	9.00	70.00	+0.08 / -0.00	55.00	+0.00 / -0.12	10.00	+0.30 / -0.00	18.05
P070055100PB*	70.00	+0.08 / -0.00	70.00	55.00	10.00	70.00	+0.08 / -0.00	55.00	+0.00 / -0.12	11.00	+0.30 / -0.00	11.57
P070055120PB*	70.00	+0.08 / -0.00	70.00	55.00	12.00	70.00	+0.08 / -0.00	55.00	+0.00 / -0.12	13.00	+0.30 / -0.00	10.58
P070060060PB	70.00	+0.08 / -0.00	70.00	60.00	6.00	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	7.00	+0.30 / -0.00	15.38
P070060070PB*	70.00	+0.08 / -0.00	70.00	60.00	7.00	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	8.00	+0.30 / -0.00	9.92
P070060073PB*	70.00	+0.08 / -0.00	70.00	60.00	7.30	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	8.00	+0.30 / -0.00	10.58
P070060080PB*	70.00	+0.08 / -0.00	70.00	60.00	8.00	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	9.00	+0.30 / -0.00	13.72
P070060081PB*	70.00	+0.08 / -0.00	70.00	60.00	8.10	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	9.00	+0.30 / -0.00	21.28
P070060100PB*	70.00	+0.08 / -0.00	70.00	60.00	10.00	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	11.00	+0.30 / -0.00	9.53
P070060120PB*	70.00	+0.08 / -0.00	70.00	60.00	12.00	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	13.00	+0.30 / -0.00	10.58
P070060135PB*	70.00	+0.08 / -0.00	70.00	60.00	13.50	70.00	+0.08 / -0.00	60.00	+0.00 / -0.12	14.50	+0.30 / -0.00	11.39
P070062053PB*	70.00	+0.08 / -0.00	70.00	62.00	5.30	70.00	+0.08 / -0.00	62.00	+0.00 / -0.12	6.00	+0.30 / -0.00	11.39
P070062080PB*	70.00	+0.08 / -0.00	70.00	62.00	8.00	70.00	+0.08 / -0.00	62.00	+0.00 / -0.12	9.00	+0.30 / -0.00	9.40
P071055120PB*	71.00	+0.08 / -0.00	71.00	55.00	12.00	71.00	+0.08 / -0.00	55.00	+0.00 / -0.12	13.00	+0.30 / -0.00	13.72
P071056100PB*	71.00	+0.08 / -0.00	71.00	56.00	10.00	71.00	+0.08 / -0.00	56.00	+0.00 / -0.12	11.00	+0.30 / -0.00	13.72
P071061060PB	71.00	+0.08 / -0.00	71.00	61.00	6.00	71.00	+0.08 / -0.00	61.00	+0.00 / -0.12	7.00	+0.30 / -0.00	19.47
P071061080PB*	71.00	+0.08 / -0.00	71.00	61.00	8.00	71.00	+0.08 / -0.00	61.00	+0.00 / -0.12	9.00	+0.30 / -0.00	13.72
P072058120PB*	72.00	+0.08 / -0.00	72.00	58.00	12.00	72.00	+0.08 / -0.00	58.00	+0.00 / -0.12	13.00	+0.30 / -0.00	11.39
P075050140PB*	75.00	+0.08 / -0.00	75.00	50.00	14.00	75.00	+0.08 / -0.00	50.00	+0.00 / -0.10	15.00	+0.30 / -0.00	11.96
P075055120PB	75.00	+0.08 / -0.00	75.00	55.00	12.00	75.00	+0.08 / -0.00	55.00	+0.00 / -0.12	13.00	+0.30 / -0.00	20.62
P075055135PB*	75.00	+0.08 / -0.00	75.00	55.00	13.50	75.00	+0.08 / -0.00	55.00	+0.00 / -0.12	14.50	+0.30 / -0.00	11.96

*** : 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.	
P075060090PB*	75.00	+0.08 / -0.00	75.00	60.00	9.00	75.00	+0.08 / -0.00	60.00	+0.00 / -0.12	10.00	+0.30 / -0.00	13.72
P075060100PB*	75.00	+0.08 / -0.00	75.00	60.00	10.00	75.00	+0.08 / -0.00	60.00	+0.00 / -0.12	11.00	+0.30 / -0.00	20.62
P075063085PB*	75.00	+0.08 / -0.00	75.00	63.00	8.50	75.00	+0.08 / -0.00	63.00	+0.00 / -0.12	9.50	+0.30 / -0.00	11.18
P075065050PB*	75.00	+0.08 / -0.00	75.00	65.00	5.00	75.00	+0.08 / -0.00	65.00	+0.00 / -0.12	5.50	+0.30 / -0.00	10.86
P075065060PB	75.00	+0.08 / -0.00	75.00	65.00	6.00	75.00	+0.08 / -0.00	65.00	+0.00 / -0.12	7.00	+0.30 / -0.00	17.74
P075065070PB*	75.00	+0.08 / -0.00	75.00	65.00	7.00	75.00	+0.08 / -0.00	65.00	+0.00 / -0.12	8.00	+0.30 / -0.00	10.86
P075065075PB*	75.00	+0.08 / -0.00	75.00	65.00	7.50	75.00	+0.08 / -0.00	65.00	+0.00 / -0.12	8.50	+0.30 / -0.00	9.65
P075065080PB*	75.00	+0.08 / -0.00	75.00	65.00	8.00	75.00	+0.08 / -0.00	65.00	+0.00 / -0.12	9.00	+0.30 / -0.00	13.72
P075065100PB*	75.00	+0.08 / -0.00	75.00	65.00	10.00	75.00	+0.08 / -0.00	65.00	+0.00 / -0.12	11.00	+0.30 / -0.00	10.86
P075065135PB*	75.00	+0.08 / -0.00	75.00	65.00	13.50	75.00	+0.08 / -0.00	65.00	+0.00 / -0.12	14.50	+0.30 / -0.00	11.39
P075067088PB*	75.00	+0.08 / -0.00	75.00	67.00	8.80	75.00	+0.08 / -0.00	67.00	+0.00 / -0.12	9.70	+0.30 / -0.00	9.93
P076060120PB*	76.00	+0.08 / -0.00	76.00	60.00	12.00	76.00	+0.08 / -0.00	60.00	+0.00 / -0.12	13.00	+0.30 / -0.00	13.72
P077067060PB*	77.00	+0.10 / -0.00	77.00	67.00	6.00	77.00	+0.10 / -0.00	67.00	+0.00 / -0.12	7.00	+0.30 / -0.00	12.26
P080047160PB*	80.00	+0.10 / -0.00	80.00	47.00	16.00	80.00	+0.10 / -0.00	47.00	+0.00 / -0.10	17.00	+0.30 / -0.00	15.09
P080060090PB*	80.00	+0.10 / -0.00	80.00	60.00	9.00	80.00	+0.10 / -0.00	60.00	+0.00 / -0.12	10.00	+0.30 / -0.00	14.52
P080060120PB	80.00	+0.10 / -0.00	80.00	60.00	12.00	80.00	+0.10 / -0.00	60.00	+0.00 / -0.12	13.00	+0.30 / -0.00	17.92
P080065090PB	80.00	+0.10 / -0.00	80.00	65.00	9.00	80.00	+0.10 / -0.00	65.00	+0.00 / -0.12	10.00	+0.30 / -0.00	19.13
P080065100PB	80.00	+0.10 / -0.00	80.00	65.00	10.00	80.00	+0.10 / -0.00	65.00	+0.00 / -0.12	11.00	+0.30 / -0.00	19.74
P080065114PB	80.00	+0.10 / -0.00	80.00	65.00	11.40	80.00	+0.10 / -0.00	65.00	+0.00 / -0.12	12.50	+0.30 / -0.00	20.49
P080065120PB*	80.00	+0.10 / -0.00	80.00	65.00	12.00	80.00	+0.10 / -0.00	65.00	+0.00 / -0.12	13.00	+0.30 / -0.00	14.63
P080068085PB*	80.00	+0.10 / -0.00	80.00	68.00	8.50	80.00	+0.10 / -0.00	68.00	+0.00 / -0.12	9.50	+0.30 / -0.00	9.91
P080070060PB	80.00	+0.10 / -0.00	80.00	70.00	6.00	80.00	+0.10 / -0.00	70.00	+0.00 / -0.12	7.00	+0.30 / -0.00	15.85
P080070068PB	80.00	+0.10 / -0.00	80.00	70.00	6.80	80.00	+0.10 / -0.00	70.00	+0.00 / -0.12	7.50	+0.30 / -0.00	13.24
P080070070PB*	80.00	+0.10 / -0.00	80.00	70.00	7.00	80.00	+0.10 / -0.00	70.00	+0.00 / -0.12	8.00	+0.30 / -0.00	7.21
P080070073PB*	80.00	+0.10 / -0.00	80.00	70.00	7.30	80.00	+0.10 / -0.00	70.00	+0.00 / -0.12	8.00	+0.30 / -0.00	11.39
P080070080PB*	80.00	+0.10 / -0.00	80.00	70.00	8.00	80.00	+0.10 / -0.00	70.00	+0.00 / -0.12	9.00	+0.30 / -0.00	19.47
P080070120PB*	80.00	+0.10 / -0.00	80.00	70.00	12.00	80.00	+0.10 / -0.00	70.00	+0.00 / -0.12	13.00	+0.30 / -0.00	9.91
P080071065PB*	80.00	+0.10 / -0.00	80.00	71.00	6.50	80.00	+0.10 / -0.00	71.00	+0.00 / -0.12	7.50	+0.30 / -0.00	9.15
P080072120PB*	80.00	+0.10 / -0.00	80.00	72.00	12.00	80.00	+0.10 / -0.00	72.00	+0.00 / -0.12	13.00	+0.30 / -0.00	9.91
P082070080PB*	82.00	+0.10 / -0.00	82.00	70.00	8.00	82.00	+0.10 / -0.00	70.00	+0.00 / -0.12	9.00	+0.30 / -0.00	9.53
P085065090PB*	85.00	+0.10 / -0.00	85.00	65.00	9.00	85.00	+0.10 / -0.00	65.00	+0.00 / -0.12	10.00	+0.30 / -0.00	15.31
P085065120PB*	85.00	+0.10 / -0.00	85.00	65.00	12.00	85.00	+0.10 / -0.00	65.00	+0.00 / -0.12	13.00	+0.30 / -0.00	22.11
P085065135PB*	85.00	+0.10 / -0.00	85.00	65.00	13.50	85.00	+0.10 / -0.00	65.00	+0.00 / -0.12	14.50	+0.30 / -0.00	11.68
P085070090PB*	85.00	+0.10 / -0.00	85.00	70.00	9.00	85.00	+0.10 / -0.00	70.00	+0.00 / -0.12	10.00	+0.30 / -0.00	24.76
P085070100PB*	85.00	+0.10 / -0.00	85.00	70.00	10.00	85.00	+0.10 / -0.00	70.00	+0.00 / -0.12	11.00	+0.30 / -0.00	22.11
P085075060PB*	85.00	+0.10 / -0.00	85.00	75.00	6.00	85.00	+0.10 / -0.00	75.00	+0.00 / -0.12	7.00	+0.30 / -0.00	24.76
P085075080PB*	85.00	+0.10 / -0.00	85.00	75.00	8.00	85.00	+0.10 / -0.00	75.00	+0.00 / -0.12	9.00	+0.30 / -0.00	16.46
P085075081PB*	85.00	+0.10 / -0.00	85.00	75.00	8.10	85.00	+0.10 / -0.00	75.00	+0.00 / -0.12	9.00	+0.30 / -0.00	22.47
P085075100PB*	85.00	+0.10 / -0.00	85.00	75.00	10.00	85.00	+0.10 / -0.00	75.00	+0.00 / -0.12	11.00	+0.30 / -0.00	11.96
P085075120PB*	85.00	+0.10 / -0.00	85.00	75.00	12.00	85.00	+0.10 / -0.00	75.00	+0.00 / -0.12	13.00	+0.30 / -0.00	11.96
P085070100PB-1*	85.70	+0.10 / -0.00	85.70	70.70	10.30	85.70	+0.10 / -0.00	70.70	+0.00 / -0.12	11.40	+0.30 / -0.00	14.26
P090070120PB	90.00	+0.10 / -0.00	90.00	70.00	12.00	90.00	+0.10 / -0.00	70.00	+0.00 / -0.12	13.00	+0.30 / -0.00	19.96
P090070135PB*	90.00	+0.10 / -0.00	90.00	70.00	13.50	90.00	+0.10 / -0.00	70.00	+0.00 / -0.12	14.50	+0.30 / -0.00	11.96
P090070150PB*	90.00	+0.10 / -0.00	90.00	70.00	15.00	90.00	+0.10 / -0.00	70.00	+0.00 / -0.12	16.00	+0.30 / -0.00	19.20
P090075090PB*	90.00	+0.10 / -0.00	90.00	75.00	9.00	90.00	+0.10 / -0.00	75.00	+0.00 / -0.12	10.00	+0.30 / -0.00	21.69
P090075100PB*	90.00	+0.10 / -0.00	90.00	75.00	10.00	90.00	+0.10 / -0.00	75.00	+0.00 / -0.12	11.00	+0.30 / -0.00	14.18
P090075120PB*	90.00	+0.10 / -0.00	90.00	75.00	12.00	90.00	+0.10 / -0.00	75.00	+0.00 / -0.12	13.00	+0.30 / -0.00	11.96
P090080050PB*	90.00	+0.10 / -0.00	90.00	80.00	5.00	90.00	+0.10 / -0.00	80.00	+0.00 / -0.12	5.50	+0.30 / -0.00	11.02

*** : 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.	
P090080060PB	90.00	+0.10 / -0.00	90.00	80.00	6.00	90.00	+0.10 / -0.00	80.00	+0.00 / -0.12	7.00	+0.30 / -0.00	14.06
P090080080PB*	90.00	+0.10 / -0.00	90.00	80.00	8.00	90.00	+0.10 / -0.00	80.00	+0.00 / -0.12	9.00	+0.30 / -0.00	19.20
P090080100PB*	90.00	+0.10 / -0.00	90.00	80.00	10.00	90.00	+0.10 / -0.00	80.00	+0.00 / -0.12	11.00	+0.30 / -0.00	11.96
P090080130PB*	90.00	+0.10 / -0.00	90.00	80.00	13.00	90.00	+0.10 / -0.00	80.00	+0.00 / -0.12	14.00	+0.30 / -0.00	12.82
P095075120PB*	95.00	+0.10 / -0.00	95.00	75.00	12.00	95.00	+0.10 / -0.00	75.00	+0.00 / -0.12	13.00	+0.30 / -0.00	23.08
P095075135PB*	95.00	+0.10 / -0.00	95.00	75.00	13.50	95.00	+0.10 / -0.00	75.00	+0.00 / -0.12	14.50	+0.30 / -0.00	12.48
P095075150PB*	95.00	+0.10 / -0.00	95.00	75.00	15.00	95.00	+0.10 / -0.00	75.00	+0.00 / -0.12	16.00	+0.30 / -0.00	23.08
P095080060PB*	95.00	+0.10 / -0.00	95.00	80.00	6.00	95.00	+0.10 / -0.00	80.00	+0.00 / -0.12	7.00	+0.30 / -0.00	23.08
P095080090PB*	95.00	+0.10 / -0.00	95.00	80.00	9.00	95.00	+0.10 / -0.00	80.00	+0.00 / -0.12	10.00	+0.30 / -0.00	23.08
P095080100PB*	95.00	+0.10 / -0.00	95.00	80.00	10.00	95.00	+0.10 / -0.00	80.00	+0.00 / -0.12	11.00	+0.30 / -0.00	27.83
P095085060PB*	95.00	+0.10 / -0.00	95.00	85.00	6.00	95.00	+0.10 / -0.00	85.00	+0.00 / -0.14	7.00	+0.30 / -0.00	23.08
P095085070PB*	95.00	+0.10 / -0.00	95.00	85.00	7.00	95.00	+0.10 / -0.00	85.00	+0.00 / -0.14	8.00	+0.30 / -0.00	12.48
P095085073PB*	95.00	+0.10 / -0.00	95.00	85.00	7.30	95.00	+0.10 / -0.00	85.00	+0.00 / -0.14	8.00	+0.30 / -0.00	12.48
P095085085PB*	95.00	+0.10 / -0.00	95.00	85.00	8.50	95.00	+0.10 / -0.00	85.00	+0.00 / -0.14	9.50	+0.30 / -0.00	11.90
P095085135PB*	95.00	+0.10 / -0.00	95.00	85.00	13.50	95.00	+0.10 / -0.00	85.00	+0.00 / -0.14	14.50	+0.30 / -0.00	12.48
P095087073PB*	95.00	+0.10 / -0.00	95.00	87.00	7.30	95.00	+0.10 / -0.00	87.00	+0.00 / -0.14	8.00	+0.30 / -0.00	12.48
P100075180PB*	100.00	+0.10 / -0.00	100.00	75.00	18.00	100.00	+0.10 / -0.00	75.00	+0.00 / -0.12	19.00	+0.30 / -0.00	25.91
P100075190PB*	100.00	+0.10 / -0.00	100.00	75.00	19.00	100.00	+0.10 / -0.00	75.00	+0.00 / -0.12	20.00	+0.30 / -0.00	38.34
P100080073PB*	100.00	+0.10 / -0.00	100.00	80.00	7.30	100.00	+0.10 / -0.00	80.00	+0.00 / -0.12	8.00	+0.30 / -0.00	12.48
P100080100PB*	100.00	+0.10 / -0.00	100.00	80.00	10.00	100.00	+0.10 / -0.00	80.00	+0.00 / -0.12	11.00	+0.30 / -0.00	12.48
P100080120PB	100.00	+0.10 / -0.00	100.00	80.00	12.00	100.00	+0.10 / -0.00	80.00	+0.00 / -0.12	13.00	+0.30 / -0.00	22.00
P100080130PB*	100.00	+0.10 / -0.00	100.00	80.00	13.00	100.00	+0.10 / -0.00	80.00	+0.00 / -0.12	14.00	+0.30 / -0.00	23.48
P100080135PB*	100.00	+0.10 / -0.00	100.00	80.00	13.50	100.00	+0.10 / -0.00	80.00	+0.00 / -0.12	14.50	+0.30 / -0.00	12.77
P100080150PB*	100.00	+0.10 / -0.00	100.00	80.00	15.00	100.00	+0.10 / -0.00	80.00	+0.00 / -0.12	16.00	+0.30 / -0.00	23.08
P100085090PB	100.00	+0.10 / -0.00	100.00	85.00	9.00	100.00	+0.10 / -0.00	85.00	+0.00 / -0.14	10.00	+0.30 / -0.00	11.05
P100085100PB*	100.00	+0.10 / -0.00	100.00	85.00	10.00	100.00	+0.10 / -0.00	85.00	+0.00 / -0.14	11.00	+0.30 / -0.00	30.95
P100085114PB	100.00	+0.10 / -0.00	100.00	85.00	11.40	100.00	+0.10 / -0.00	85.00	+0.00 / -0.14	12.40	+0.30 / -0.00	11.05
P100085120PB*	100.00	+0.10 / -0.00	100.00	85.00	12.00	100.00	+0.10 / -0.00	85.00	+0.00 / -0.14	13.00	+0.30 / -0.00	12.70
P100086120PB*	100.00	+0.10 / -0.00	100.00	86.00	12.00	100.00	+0.10 / -0.00	86.00	+0.00 / -0.14	13.00	+0.30 / -0.00	12.77
P100088085PB*	100.00	+0.10 / -0.00	100.00	88.00	8.50	100.00	+0.10 / -0.00	88.00	+0.00 / -0.14	9.50	+0.30 / -0.00	10.54
P100090065PB*	100.00	+0.10 / -0.00	100.00	90.00	6.50	100.00	+0.10 / -0.00	90.00	+0.00 / -0.14	7.50	+0.30 / -0.00	10.04
P100090068PB*	100.00	+0.10 / -0.00	100.00	90.00	6.80	100.00	+0.10 / -0.00	90.00	+0.00 / -0.14	7.50	+0.30 / -0.00	17.37
P100090072PB*	100.00	+0.10 / -0.00	100.00	90.00	7.20	100.00	+0.10 / -0.00	90.00	+0.00 / -0.14	8.20	+0.30 / -0.00	10.04
P100090085PB*	100.00	+0.10 / -0.00	100.00	90.00	8.50	100.00	+0.10 / -0.00	90.00	+0.00 / -0.14	9.50	+0.30 / -0.00	10.67
P100090105PB*	100.00	+0.10 / -0.00	100.00	90.00	10.50	100.00	+0.10 / -0.00	90.00	+0.00 / -0.14	11.50	+0.30 / -0.00	11.81
P105085118PB*	105.00	+0.10 / -0.00	105.00	85.00	11.80	105.00	+0.10 / -0.00	85.00	+0.00 / -0.14	13.00	+0.30 / -0.00	30.25
P105085150PB*	105.00	+0.10 / -0.00	105.00	85.00	15.00	105.00	+0.10 / -0.00	85.00	+0.00 / -0.14	16.00	+0.30 / -0.00	33.75
P105090090PB*	105.00	+0.10 / -0.00	105.00	90.00	9.00	105.00	+0.10 / -0.00	90.00	+0.00 / -0.14	10.00	+0.30 / -0.00	34.67
P105090120PB*	105.00	+0.10 / -0.00	105.00	90.00	12.00	105.00	+0.10 / -0.00	90.00	+0.00 / -0.14	13.00	+0.30 / -0.00	12.77
P105095120PB*	105.00	+0.10 / -0.00	105.00	95.00	12.00	105.00	+0.10 / -0.00	95.00	+0.00 / -0.14	13.00	+0.30 / -0.00	15.09
P105097081PB*	105.00	+0.10 / -0.00	105.00	97.00	8.10	105.00	+0.10 / -0.00	97.00	+0.00 / -0.14	9.00	+0.30 / -0.00	16.04
P110085180PB*	110.00	+0.10 / -0.00	110.00	85.00	18.00	110.00	+0.10 / -0.00	85.00	+0.00 / -0.14	19.00	+0.30 / -0.00	26.87
P110085190PB*	110.00	+0.10 / -0.00	110.00	85.00	19.00	110.00	+0.10 / -0.00	85.00	+0.00 / -0.14	20.00	+0.30 / -0.00	47.41
P110090120PB*	110.00	+0.10 / -0.00	110.00	90.00	12.00	110.00	+0.10 / -0.00	90.00	+0.00 / -0.14	13.00	+0.30 / -0.00	14.10
P110090150PB*	110.00	+0.10 / -0.00	110.00	90.00	15.00	110.00	+0.10 / -0.00	90.00	+0.00 / -0.14	16.00	+0.30 / -0.00	26.87
P110095090PB*	110.00	+0.10 / -0.00	110.00	95.00	9.00	110.00	+0.10 / -0.00	95.00	+0.00 / -0.14	10.00	+0.30 / -0.00	40.43
P110095100PB*	110.00	+0.10 / -0.00	110.00	95.00	10.00	110.00	+0.10 / -0.00	95.00	+0.00 / -0.14	11.00	+0.30 / -0.00	11.56
P110095120PB*	110.00	+0.10 / -0.00	110.00	95.00	12.00	110.00	+0.10 / -0.00	95.00	+0.00 / -0.14	13.00	+0.30 / -0.00	13.58

*** : 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.	
P110100070PB*	110.00	+0.10 / -0.00	110.00	100.00	7.00	110.00	+0.10 / -0.00	100.00	+0.00 / -0.14	8.00	+0.30 / -0.00	12.56
P110100080PB*	110.00	+0.10 / -0.00	110.00	100.00	8.00	110.00	+0.10 / -0.00	100.00	+0.00 / -0.14	9.00	+0.30 / -0.00	37.38
P110100135PB*	110.00	+0.10 / -0.00	110.00	100.00	13.50	110.00	+0.10 / -0.00	100.00	+0.00 / -0.14	14.50	+0.30 / -0.00	14.10
P112092120PB*	112.00	+0.10 / -0.00	112.00	92.00	12.00	112.00	+0.10 / -0.00	92.00	+0.00 / -0.14	13.00	+0.30 / -0.00	26.87
P112092150PB*	112.00	+0.10 / -0.00	112.00	92.00	15.00	112.00	+0.10 / -0.00	92.00	+0.00 / -0.14	16.00	+0.30 / -0.00	26.87
P112097090PB*	112.00	+0.10 / -0.00	112.00	97.00	9.00	112.00	+0.10 / -0.00	97.00	+0.00 / -0.14	10.00	+0.30 / -0.00	26.87
P112097100PB*	112.00	+0.10 / -0.00	112.00	97.00	10.00	112.00	+0.10 / -0.00	97.00	+0.00 / -0.14	11.00	+0.30 / -0.00	26.87
P112098085PB*	112.00	+0.10 / -0.00	112.00	98.00	8.50	112.00	+0.10 / -0.00	98.00	+0.00 / -0.14	9.50	+0.30 / -0.00	20.58
P115095150PB*	115.00	+0.10 / -0.00	115.00	95.00	15.00	115.00	+0.10 / -0.00	95.00	+0.00 / -0.14	16.00	+0.30 / -0.00	27.35
P115100060PB*	115.00	+0.10 / -0.00	115.00	100.00	6.00	115.00	+0.10 / -0.00	100.00	+0.00 / -0.14	7.00	+0.30 / -0.00	12.70
P115100090PB*	115.00	+0.10 / -0.00	115.00	100.00	9.00	115.00	+0.10 / -0.00	100.00	+0.00 / -0.14	10.00	+0.30 / -0.00	40.43
P115100105PB*	115.00	+0.10 / -0.00	115.00	100.00	10.50	115.00	+0.10 / -0.00	100.00	+0.00 / -0.14	11.50	+0.30 / -0.00	13.66
P115105135PB*	115.00	+0.10 / -0.00	115.00	105.00	13.50	115.00	+0.10 / -0.00	105.00	+0.00 / -0.14	14.50	+0.30 / -0.00	13.66
P120095120PB*	120.00	+0.10 / -0.00	120.00	95.00	12.00	120.00	+0.10 / -0.00	95.00	+0.00 / -0.14	13.00	+0.30 / -0.00	15.48
P120100120PB	120.00	+0.10 / -0.00	120.00	100.00	12.00	120.00	+0.10 / -0.00	100.00	+0.00 / -0.14	13.00	+0.30 / -0.00	29.72
P120100135PB*	120.00	+0.10 / -0.00	120.00	100.00	13.50	120.00	+0.10 / -0.00	100.00	+0.00 / -0.14	14.50	+0.30 / -0.00	15.20
P120100150PB*	120.00	+0.10 / -0.00	120.00	100.00	15.00	120.00	+0.10 / -0.00	100.00	+0.00 / -0.14	16.00	+0.30 / -0.00	30.18
P120103160PB*	120.00	+0.10 / -0.00	120.00	103.00	16.00	120.00	+0.10 / -0.00	103.00	+0.00 / -0.14	17.00	+0.30 / -0.00	15.87
P120105090PB	120.00	+0.10 / -0.00	120.00	105.00	9.00	120.00	+0.10 / -0.00	105.00	+0.00 / -0.14	10.00	+0.30 / -0.00	41.06
P120105100PB*	120.00	+0.10 / -0.00	120.00	105.00	10.00	120.00	+0.10 / -0.00	105.00	+0.00 / -0.14	11.00	+0.30 / -0.00	30.18
P120106085PB	120.00	+0.10 / -0.00	120.00	106.00	8.50	120.00	+0.10 / -0.00	106.00	+0.00 / -0.14	9.50	+0.30 / -0.00	45.39
P120110120PB*	120.00	+0.10 / -0.00	120.00	110.00	12.00	120.00	+0.10 / -0.00	110.00	+0.00 / -0.14	13.00	+0.30 / -0.00	13.72
P125100130PB*	125.00	+0.10 / -0.00	125.00	100.00	13.00	125.00	+0.10 / -0.00	100.00	+0.00 / -0.14	14.00	+0.30 / -0.00	36.75
P125100150PB*	125.00	+0.10 / -0.00	125.00	100.00	15.00	125.00	+0.10 / -0.00	100.00	+0.00 / -0.14	16.00	+0.30 / -0.00	44.12
P125105120PB*	125.00	+0.10 / -0.00	125.00	105.00	12.00	125.00	+0.10 / -0.00	105.00	+0.00 / -0.14	13.00	+0.30 / -0.00	15.24
P125105145PB*	125.00	+0.10 / -0.00	125.00	105.00	14.50	125.00	+0.10 / -0.00	105.00	+0.00 / -0.14	16.00	+0.30 / -0.00	41.45
P125105150PB	125.00	+0.10 / -0.00	125.00	105.00	15.00	125.00	+0.10 / -0.00	105.00	+0.00 / -0.14	16.00	+0.30 / -0.00	17.40
P125105160PB*	125.00	+0.10 / -0.00	125.00	105.00	16.00	125.00	+0.10 / -0.00	105.00	+0.00 / -0.14	17.00	+0.30 / -0.00	30.18
P125110090PB*	125.00	+0.10 / -0.00	125.00	110.00	9.00	125.00	+0.10 / -0.00	110.00	+0.00 / -0.14	10.00	+0.30 / -0.00	45.39
P125110100PB*	125.00	+0.10 / -0.00	125.00	110.00	10.00	125.00	+0.10 / -0.00	110.00	+0.00 / -0.14	11.00	+0.30 / -0.00	14.10
P125112090PB	125.00	+0.10 / -0.00	125.00	112.00	9.00	125.00	+0.10 / -0.00	112.00	+0.00 / -0.14	10.00	+0.30 / -0.00	40.53
P125115070PB*	125.00	+0.10 / -0.00	125.00	115.00	7.00	125.00	+0.10 / -0.00	115.00	+0.00 / -0.14	8.00	+0.30 / -0.00	15.22
P125115150PB*	125.00	+0.10 / -0.00	125.00	115.00	15.00	125.00	+0.10 / -0.00	115.00	+0.00 / -0.14	16.00	+0.30 / -0.00	16.82
P127113100PB*	127.00	+0.10 / -0.00	127.00	113.00	10.00	127.00	+0.10 / -0.00	113.00	+0.00 / -0.14	11.00	+0.30 / -0.00	16.26
P130100120PB*	130.00	+0.10 / -0.00	130.00	100.00	12.00	130.00	+0.10 / -0.00	100.00	+0.00 / -0.14	13.00	+0.30 / -0.00	15.87
P130110120PB*	130.00	+0.10 / -0.00	130.00	110.00	12.00	130.00	+0.10 / -0.00	110.00	+0.00 / -0.14	13.00	+0.30 / -0.00	17.78
P130110150PB*	130.00	+0.10 / -0.00	130.00	110.00	15.00	130.00	+0.10 / -0.00	110.00	+0.00 / -0.14	16.00	+0.30 / -0.00	17.91
P130110160PB*	130.00	+0.10 / -0.00	130.00	110.00	16.00	130.00	+0.10 / -0.00	110.00	+0.00 / -0.14	17.00	+0.30 / -0.00	35.58
P130115090PB*	130.00	+0.10 / -0.00	130.00	115.00	9.00	130.00	+0.10 / -0.00	115.00	+0.00 / -0.14	10.00	+0.30 / -0.00	53.40
P130115100PB*	130.00	+0.10 / -0.00	130.00	115.00	10.00	130.00	+0.10 / -0.00	115.00	+0.00 / -0.14	11.00	+0.30 / -0.00	35.58
P130120135PB*	130.00	+0.10 / -0.00	130.00	120.00	13.50	130.00	+0.10 / -0.00	120.00	+0.00 / -0.14	14.50	+0.30 / -0.00	15.64
P132112150PB*	132.00	+0.10 / -0.00	132.00	112.00	15.00	132.00	+0.10 / -0.00	112.00	+0.00 / -0.14	16.00	+0.30 / -0.00	35.58
P135115120PB*	135.00	+0.10 / -0.00	135.00	115.00	12.00	135.00	+0.10 / -0.00	115.00	+0.00 / -0.14	13.00	+0.30 / -0.00	33.63
P135115130PB*	135.00	+0.10 / -0.00	135.00	115.00	13.00	135.00	+0.10 / -0.00	115.00	+0.00 / -0.14	14.00	+0.30 / -0.00	35.58
P140114120PB*	140.00	+0.10 / -0.00	140.00	114.00	12.00	140.00	+0.10 / -0.00	114.00	+0.00 / -0.14	13.00	+0.30 / -0.00	20.93
P140115150PB*	140.00	+0.10 / -0.00	140.00	115.00	15.00	140.00	+0.10 / -0.00	115.00	+0.00 / -0.14	16.00	+0.30 / -0.00	50.59
P140120120PB	140.00	+0.10 / -0.00	140.00	120.00	12.00	140.00	+0.10 / -0.00	120.00	+0.00 / -0.14	13.00	+0.30 / -0.00	20.87
P140120150PB*	140.00	+0.10 / -0.00	140.00	120.00	15.00	140.00	+0.10 / -0.00	120.00	+0.00 / -0.14	16.00	+0.30 / -0.00	21.47

*** : 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.	
P140120160PB*	140.00	+0.10 / -0.00	140.00	120.00	16.00	140.00	+0.10 / -0.00	120.00	+0.00 / -0.14	17.00	+0.30 / -0.00	35.58
P140125090PB	140.00	+0.10 / -0.00	140.00	125.00	9.00	140.00	+0.10 / -0.00	125.00	+0.00 / -0.16	10.00	+0.30 / -0.00	20.33
P140125100PB*	140.00	+0.10 / -0.00	140.00	125.00	10.00	140.00	+0.10 / -0.00	125.00	+0.00 / -0.16	11.00	+0.30 / -0.00	35.58
P140125150PB*	140.00	+0.10 / -0.00	140.00	125.00	15.00	140.00	+0.10 / -0.00	125.00	+0.00 / -0.16	16.00	+0.30 / -0.00	21.47
P145130090PB*	145.00	+0.10 / -0.00	145.00	130.00	9.00	145.00	+0.10 / -0.00	130.00	+0.00 / -0.16	10.00	+0.30 / -0.00	29.93
P145130100PB*	145.00	+0.10 / -0.00	145.00	130.00	10.00	145.00	+0.10 / -0.00	130.00	+0.00 / -0.16	11.00	+0.30 / -0.00	19.18
P150125120PB*	150.00	+0.10 / -0.00	150.00	125.00	12.00	150.00	+0.10 / -0.00	125.00	+0.00 / -0.16	13.00	+0.30 / -0.00	46.05
P150125150PB*	150.00	+0.10 / -0.00	150.00	125.00	15.00	150.00	+0.10 / -0.00	125.00	+0.00 / -0.16	16.00	+0.30 / -0.00	55.69
P150125190PB*	150.00	+0.10 / -0.00	150.00	125.00	19.00	150.00	+0.10 / -0.00	125.00	+0.00 / -0.16	20.00	+0.30 / -0.00	57.81
P150125200PB*	150.00	+0.10 / -0.00	150.00	125.00	20.00	150.00	+0.10 / -0.00	125.00	+0.00 / -0.16	21.00	+0.30 / -0.00	38.41
P150130120PB	150.00	+0.10 / -0.00	150.00	130.00	12.00	150.00	+0.10 / -0.00	130.00	+0.00 / -0.16	13.00	+0.30 / -0.00	57.81
P150130145PB*	150.00	+0.10 / -0.00	150.00	130.00	14.50	150.00	+0.10 / -0.00	130.00	+0.00 / -0.16	16.00	+0.30 / -0.00	49.48
P150130150PB*	150.00	+0.10 / -0.00	150.00	130.00	15.00	150.00	+0.10 / -0.00	130.00	+0.00 / -0.16	16.00	+0.30 / -0.00	47.86
P150130160PB*	150.00	+0.10 / -0.00	150.00	130.00	16.00	150.00	+0.10 / -0.00	130.00	+0.00 / -0.16	17.00	+0.30 / -0.00	38.41
P150135080PB*	150.00	+0.10 / -0.00	150.00	135.00	8.00	150.00	+0.10 / -0.00	135.00	+0.00 / -0.16	9.00	+0.30 / -0.00	19.18
P150135090PB*	150.00	+0.10 / -0.00	150.00	135.00	9.00	150.00	+0.10 / -0.00	135.00	+0.00 / -0.16	10.00	+0.30 / -0.00	57.81
P150135100PB*	150.00	+0.10 / -0.00	150.00	135.00	10.00	150.00	+0.10 / -0.00	135.00	+0.00 / -0.16	11.00	+0.30 / -0.00	38.41
P150136085PB*	150.00	+0.10 / -0.00	150.00	136.00	8.50	150.00	+0.10 / -0.00	136.00	+0.00 / -0.16	9.50	+0.30 / -0.00	29.93
P150140070PB*	150.00	+0.10 / -0.00	150.00	140.00	7.00	150.00	+0.10 / -0.00	140.00	+0.00 / -0.16	8.00	+0.30 / -0.00	21.37
P150140136PB*	150.00	+0.10 / -0.00	150.00	140.00	13.60	150.00	+0.10 / -0.00	140.00	+0.00 / -0.16	15.00	+0.30 / -0.00	38.23
P152130150PB*	152.00	+0.10 / -0.00	152.00	130.00	15.00	152.00	+0.10 / -0.00	130.00	+0.00 / -0.16	16.00	+0.30 / -0.00	25.66
P155140090PB*	155.00	+0.10 / -0.00	155.00	140.00	9.00	155.00	+0.10 / -0.00	140.00	+0.00 / -0.16	10.00	+0.30 / -0.00	57.81
P157132200PB*	157.00	+0.10 / -0.00	157.00	132.00	20.00	157.00	+0.10 / -0.00	132.00	+0.00 / -0.16	21.00	+0.30 / -0.00	71.49
P160135160PB*	160.00	+0.10 / -0.00	160.00	135.00	16.00	160.00	+0.10 / -0.00	135.00	+0.00 / -0.16	17.00	+0.30 / -0.00	71.49
P160135190PB*	160.00	+0.10 / -0.00	160.00	135.00	19.00	160.00	+0.10 / -0.00	135.00	+0.00 / -0.16	20.00	+0.30 / -0.00	107.52
P160135200PB*	160.00	+0.10 / -0.00	160.00	135.00	20.00	160.00	+0.10 / -0.00	135.00	+0.00 / -0.16	21.00	+0.30 / -0.00	71.49
P160140120PB	160.00	+0.10 / -0.00	160.00	140.00	12.00	160.00	+0.10 / -0.00	140.00	+0.00 / -0.16	13.00	+0.30 / -0.00	107.52
P160140140PB*	160.00	+0.10 / -0.00	160.00	140.00	14.00	160.00	+0.10 / -0.00	140.00	+0.00 / -0.16	15.00	+0.30 / -0.00	22.36
P160140150PB*	160.00	+0.10 / -0.00	160.00	140.00	15.00	160.00	+0.10 / -0.00	140.00	+0.00 / -0.16	16.00	+0.30 / -0.00	52.29
P160140160PB*	160.00	+0.10 / -0.00	160.00	140.00	16.00	160.00	+0.10 / -0.00	140.00	+0.00 / -0.16	17.00	+0.30 / -0.00	71.49
P160140182PB*	160.00	+0.10 / -0.00	160.00	140.00	18.20	160.00	+0.10 / -0.00	140.00	+0.00 / -0.16	20.00	+0.30 / -0.00	52.42
P160145090PB	160.00	+0.10 / -0.00	160.00	145.00	9.00	160.00	+0.10 / -0.00	145.00	+0.00 / -0.16	10.00	+0.30 / -0.00	22.36
P160145100PB*	160.00	+0.10 / -0.00	160.00	145.00	10.00	160.00	+0.10 / -0.00	145.00	+0.00 / -0.16	11.00	+0.30 / -0.00	71.49
P160145140PB*	160.00	+0.10 / -0.00	160.00	145.00	14.00	160.00	+0.10 / -0.00	145.00	+0.00 / -0.16	15.00	+0.30 / -0.00	22.36
P160148065PB*	160.00	+0.10 / -0.00	160.00	148.00	6.50	160.00	+0.10 / -0.00	148.00	+0.00 / -0.16	7.50	+0.30 / -0.00	22.92
P165140190PB*	165.00	+0.10 / -0.00	165.00	140.00	19.00	165.00	+0.10 / -0.00	140.00	+0.00 / -0.16	20.00	+0.30 / -0.00	111.40
P165140200PB*	165.00	+0.10 / -0.00	165.00	140.00	20.00	165.00	+0.10 / -0.00	140.00	+0.00 / -0.16	21.00	+0.30 / -0.00	74.15
P165145090PB*	165.00	+0.10 / -0.00	165.00	145.00	9.00	165.00	+0.10 / -0.00	145.00	+0.00 / -0.16	10.00	+0.30 / -0.00	74.15
P170145190PB*	170.00	+0.10 / -0.00	170.00	145.00	19.00	170.00	+0.10 / -0.00	145.00	+0.00 / -0.16	20.00	+0.30 / -0.00	27.06
P170145200PB*	170.00	+0.10 / -0.00	170.00	145.00	20.00	170.00	+0.10 / -0.00	145.00	+0.00 / -0.16	21.00	+0.30 / -0.00	97.71
P170148150PB*	170.00	+0.10 / -0.00	170.00	148.00	15.00	170.00	+0.10 / -0.00	148.00	+0.00 / -0.16	16.00	+0.30 / -0.00	26.55
P170150120PB	170.00	+0.10 / -0.00	170.00	150.00	12.00	170.00	+0.10 / -0.00	150.00	+0.00 / -0.16	13.00	+0.30 / -0.00	60.74
P170150150PB*	170.00	+0.10 / -0.00	170.00	150.00	15.00	170.00	+0.10 / -0.00	150.00	+0.00 / -0.16	16.00	+0.30 / -0.00	26.22
P170150160PB*	170.00	+0.10 / -0.00	170.00	150.00	16.00	170.00	+0.10 / -0.00	150.00	+0.00 / -0.16	17.00	+0.30 / -0.00	97.71
P170155090PB	170.00	+0.10 / -0.00	170.00	155.00	9.00	170.00	+0.10 / -0.00	155.00	+0.00 / -0.16	10.00	+0.30 / -0.00	40.57
P170155100PB*	170.00	+0.10 / -0.00	170.00	155.00	10.00	170.00	+0.10 / -0.00	155.00	+0.00 / -0.16	11.00	+0.30 / -0.00	97.71
P174165065PB*	174.80	+0.10 / -0.00	174.80	165.20	6.50	174.80	+0.10 / -0.00	165.20	+0.00 / -0.16	7.50	+0.30 / -0.00	26.88
P175150200PB*	175.00	+0.13 / -0.00	175.00	150.00	20.00	175.00	+0.13 / -0.00	150.00	+0.00 / -0.16	21.00	+0.30 / -0.00	97.71

*** : 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.	
P175155120PB*	175.00	+0.13 / -0.00	175.00	155.00	12.00	175.00	+0.13 / -0.00	155.00	+0.00 / -0.16	13.00	+0.30 / -0.00	97.71
P175155140PB*	175.00	+0.13 / -0.00	175.00	155.00	14.00	175.00	+0.13 / -0.00	155.00	+0.00 / -0.16	15.00	+0.30 / -0.00	26.04
P175160090PB*	175.00	+0.13 / -0.00	175.00	160.00	9.00	175.00	+0.13 / -0.00	160.00	+0.00 / -0.16	10.00	+0.30 / -0.00	55.58
P180155160PB*	180.00	+0.13 / -0.00	180.00	155.00	16.00	180.00	+0.13 / -0.00	155.00	+0.00 / -0.16	17.00	+0.30 / -0.00	97.71
P180155190PB*	180.00	+0.13 / -0.00	180.00	155.00	19.00	180.00	+0.13 / -0.00	155.00	+0.00 / -0.16	20.00	+0.30 / -0.00	107.82
P180155200PB*	180.00	+0.13 / -0.00	180.00	155.00	20.00	180.00	+0.13 / -0.00	155.00	+0.00 / -0.16	21.00	+0.30 / -0.00	97.71
P180160090PB*	180.00	+0.13 / -0.00	180.00	160.00	9.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.16	10.00	+0.30 / -0.00	26.04
P180160120PB*	180.00	+0.13 / -0.00	180.00	160.00	12.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.16	13.00	+0.30 / -0.00	31.38
P180160135PB*	180.00	+0.13 / -0.00	180.00	160.00	13.50	180.00	+0.13 / -0.00	160.00	+0.00 / -0.16	14.50	+0.30 / -0.00	28.87
P180160140PB*	180.00	+0.13 / -0.00	180.00	160.00	14.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.16	15.00	+0.30 / -0.00	30.49
P180160150PB*	180.00	+0.13 / -0.00	180.00	160.00	15.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.16	16.00	+0.30 / -0.00	59.66
P180160160PB*	180.00	+0.13 / -0.00	180.00	160.00	16.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.16	17.00	+0.30 / -0.00	104.33
P180160200PB*	180.00	+0.13 / -0.00	180.00	160.00	20.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.16	21.00	+0.30 / -0.00	109.82
P180165090PB	180.00	+0.13 / -0.00	180.00	165.00	9.00	180.00	+0.13 / -0.00	165.00	+0.00 / -0.16	10.00	+0.30 / -0.00	27.31
P180165100PB*	180.00	+0.13 / -0.00	180.00	165.00	10.00	180.00	+0.13 / -0.00	165.00	+0.00 / -0.16	11.00	+0.30 / -0.00	104.33
P180165120PB*	180.00	+0.13 / -0.00	180.00	165.00	12.00	180.00	+0.13 / -0.00	165.00	+0.00 / -0.16	13.00	+0.30 / -0.00	109.82
P180165160PB*	180.00	+0.13 / -0.00	180.00	165.00	16.00	180.00	+0.13 / -0.00	165.00	+0.00 / -0.16	17.00	+0.30 / -0.00	116.67
P180165190PB*	180.00	+0.13 / -0.00	180.00	165.00	19.00	180.00	+0.13 / -0.00	165.00	+0.00 / -0.16	20.00	+0.30 / -0.00	104.33
P180166155PB*	180.00	+0.13 / -0.00	180.00	166.00	15.50	180.00	+0.13 / -0.00	166.00	+0.00 / -0.16	16.50	+0.30 / -0.00	28.87
P180170065PB*	180.00	+0.13 / -0.00	180.00	170.00	6.50	180.00	+0.13 / -0.00	170.00	+0.00 / -0.16	7.50	+0.30 / -0.00	62.05
P185160190PB*	185.00	+0.13 / -0.00	185.00	160.00	19.00	185.00	+0.13 / -0.00	160.00	+0.00 / -0.16	20.00	+0.30 / -0.00	129.82
P190165150PB*	190.00	+0.13 / -0.00	190.00	165.00	15.00	190.00	+0.13 / -0.00	165.00	+0.00 / -0.16	16.00	+0.30 / -0.00	116.67
P190165190PB*	190.00	+0.13 / -0.00	190.00	165.00	19.00	190.00	+0.13 / -0.00	165.00	+0.00 / -0.16	20.00	+0.30 / -0.00	110.47
P190165200PB*	190.00	+0.13 / -0.00	190.00	165.00	20.00	190.00	+0.13 / -0.00	165.00	+0.00 / -0.16	21.00	+0.30 / -0.00	116.67
P190170120PB	190.00	+0.13 / -0.00	190.00	170.00	12.00	190.00	+0.13 / -0.00	170.00	+0.00 / -0.16	13.00	+0.30 / -0.00	80.67
P190170150PB*	190.00	+0.13 / -0.00	190.00	170.00	15.00	190.00	+0.13 / -0.00	170.00	+0.00 / -0.16	16.00	+0.30 / -0.00	33.27
P190170160PB*	190.00	+0.13 / -0.00	190.00	170.00	16.00	190.00	+0.13 / -0.00	170.00	+0.00 / -0.16	17.00	+0.30 / -0.00	116.67
P190175090PB*	190.00	+0.13 / -0.00	190.00	175.00	9.00	190.00	+0.13 / -0.00	175.00	+0.00 / -0.16	10.00	+0.30 / -0.00	51.21
P190175100PB*	190.00	+0.13 / -0.00	190.00	175.00	10.00	190.00	+0.13 / -0.00	175.00	+0.00 / -0.16	11.00	+0.30 / -0.00	116.67
P200170180PB*	200.00	+0.13 / -0.00	200.00	170.00	18.00	200.00	+0.13 / -0.00	170.00	+0.00 / -0.16	19.00	+0.30 / -0.00	51.45
P200170190PB*	200.00	+0.13 / -0.00	200.00	170.00	19.00	200.00	+0.13 / -0.00	170.00	+0.00 / -0.16	20.00	+0.30 / -0.00	117.39
P200175160PB*	200.00	+0.13 / -0.00	200.00	175.00	16.00	200.00	+0.13 / -0.00	175.00	+0.00 / -0.16	17.00	+0.30 / -0.00	42.68
P200175190PB	200.00	+0.13 / -0.00	200.00	175.00	19.00	200.00	+0.13 / -0.00	175.00	+0.00 / -0.16	20.00	+0.30 / -0.00	121.62
P200175200PB*	200.00	+0.13 / -0.00	200.00	175.00	20.00	200.00	+0.13 / -0.00	175.00	+0.00 / -0.16	21.00	+0.30 / -0.00	130.39
P200180120PB*	200.00	+0.13 / -0.00	200.00	180.00	12.00	200.00	+0.13 / -0.00	180.00	+0.00 / -0.16	13.00	+0.30 / -0.00	86.46
P200180140PB*	200.00	+0.13 / -0.00	200.00	180.00	14.00	200.00	+0.13 / -0.00	180.00	+0.00 / -0.16	15.00	+0.30 / -0.00	42.05
P200180145PB*	200.00	+0.13 / -0.00	200.00	180.00	14.50	200.00	+0.13 / -0.00	180.00	+0.00 / -0.16	16.00	+0.30 / -0.00	65.60
P200180150PB*	200.00	+0.13 / -0.00	200.00	180.00	15.00	200.00	+0.13 / -0.00	180.00	+0.00 / -0.16	16.00	+0.30 / -0.00	69.75
P200180160PB*	200.00	+0.13 / -0.00	200.00	180.00	16.00	200.00	+0.13 / -0.00	180.00	+0.00 / -0.16	17.00	+0.30 / -0.00	130.39
P203184150PB*	203.00	+0.13 / -0.00	203.00	184.00	15.00	203.00	+0.13 / -0.00	184.00	+0.00 / -0.16	16.00	+0.30 / -0.00	47.00
P205180150PB*	205.00	+0.13 / -0.00	205.00	180.00	15.00	205.00	+0.13 / -0.00	180.00	+0.00 / -0.16	16.00	+0.30 / -0.00	133.86
P205180190PB*	205.00	+0.13 / -0.00	205.00	180.00	19.00	205.00	+0.13 / -0.00	180.00	+0.00 / -0.16	20.00	+0.30 / -0.00	201.18
P205180200PB*	205.00	+0.13 / -0.00	205.00	180.00	20.00	205.00	+0.13 / -0.00	180.00	+0.00 / -0.16	21.00	+0.30 / -0.00	133.86
P210185160PB*	210.00	+0.13 / -0.00	210.00	185.00	16.00	210.00	+0.13 / -0.00	185.00	+0.00 / -0.18	17.00	+0.30 / -0.00	133.86
P210185200PB*	210.00	+0.13 / -0.00	210.00	185.00	20.00	210.00	+0.13 / -0.00	185.00	+0.00 / -0.18	21.00	+0.30 / -0.00	133.86
P210190120PB*	210.00	+0.13 / -0.00	210.00	190.00	12.00	210.00	+0.13 / -0.00	190.00	+0.00 / -0.16	13.00	+0.30 / -0.00	91.62
P210190160PB*	210.00	+0.13 / -0.00	210.00	190.00	16.00	210.00	+0.13 / -0.00	190.00	+0.00 / -0.18	17.00	+0.30 / -0.00	133.86
P215190160PB*	215.00	+0.13 / -0.00	215.00	190.00	16.00	215.00	+0.13 / -0.00	190.00	+0.00 / -0.16	17.00	+0.30 / -0.00	125.22

*** : 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.	
P220195160PB*	220.00	+0.13 / -0.00	220.00	195.00	16.00	220.00	+0.13 / -0.00	195.00	+0.00 / -0.18	17.00	+0.30 / -0.00	59.07
P220195200PB*	220.00	+0.13 / -0.00	220.00	195.00	20.00	220.00	+0.13 / -0.00	195.00	+0.00 / -0.18	21.00	+0.30 / -0.00	142.74
P220200120PB	220.00	+0.13 / -0.00	220.00	200.00	12.00	220.00	+0.13 / -0.00	200.00	+0.00 / -0.18	13.00	+0.30 / -0.00	80.51
P220200150PB*	220.00	+0.13 / -0.00	220.00	200.00	15.00	220.00	+0.13 / -0.00	200.00	+0.00 / -0.18	16.00	+0.30 / -0.00	67.58
P220200160PB*	220.00	+0.13 / -0.00	220.00	200.00	16.00	220.00	+0.13 / -0.00	200.00	+0.00 / -0.18	17.00	+0.30 / -0.00	142.74
P224204120PB*	224.00	+0.13 / -0.00	224.00	204.00	12.00	224.00	+0.13 / -0.00	204.00	+0.00 / -0.18	13.00	+0.30 / -0.00	204.87
P224204160PB*	224.00	+0.13 / -0.00	224.00	204.00	16.00	224.00	+0.13 / -0.00	204.00	+0.00 / -0.18	17.00	+0.30 / -0.00	142.74
P225200160PB*	225.00	+0.13 / -0.00	225.00	200.00	16.00	225.00	+0.13 / -0.00	200.00	+0.00 / -0.18	17.00	+0.30 / -0.00	142.74
P225200190PB*	225.00	+0.13 / -0.00	225.00	200.00	19.00	225.00	+0.13 / -0.00	200.00	+0.00 / -0.18	20.00	+0.30 / -0.00	142.74
P225200200PB*	225.00	+0.13 / -0.00	225.00	200.00	20.00	225.00	+0.13 / -0.00	200.00	+0.00 / -0.18	21.00	+0.30 / -0.00	142.74
P225205120PB*	225.00	+0.13 / -0.00	225.00	205.00	12.00	225.00	+0.13 / -0.00	205.00	+0.00 / -0.18	13.00	+0.30 / -0.00	204.87
P225205160PB*	225.00	+0.13 / -0.00	225.00	205.00	16.00	225.00	+0.13 / -0.00	205.00	+0.00 / -0.18	17.00	+0.30 / -0.00	142.74
P230205160PB*	230.00	+0.13 / -0.00	230.00	205.00	16.00	230.00	+0.13 / -0.00	205.00	+0.00 / -0.18	17.00	+0.30 / -0.00	142.74
P230205190PB*	230.00	+0.13 / -0.00	230.00	205.00	19.00	230.00	+0.13 / -0.00	205.00	+0.00 / -0.18	20.00	+0.30 / -0.00	142.74
P230205200PB*	230.00	+0.13 / -0.00	230.00	205.00	20.00	230.00	+0.13 / -0.00	205.00	+0.00 / -0.18	21.00	+0.30 / -0.00	142.74
P230210120PB*	230.00	+0.13 / -0.00	230.00	210.00	12.00	230.00	+0.13 / -0.00	210.00	+0.00 / -0.18	13.00	+0.30 / -0.00	206.31
P230210160PB*	230.00	+0.13 / -0.00	230.00	210.00	16.00	230.00	+0.13 / -0.00	210.00	+0.00 / -0.18	17.00	+0.30 / -0.00	142.74
P235210200PB*	235.00	+0.13 / -0.00	235.00	210.00	20.00	235.00	+0.13 / -0.00	210.00	+0.00 / -0.18	21.00	+0.30 / -0.00	159.28
P240215160PB*	240.00	+0.13 / -0.00	240.00	215.00	16.00	240.00	+0.13 / -0.00	215.00	+0.00 / -0.18	17.00	+0.30 / -0.00	159.28
P240215190PB*	240.00	+0.13 / -0.00	240.00	215.00	19.00	240.00	+0.13 / -0.00	215.00	+0.00 / -0.18	20.00	+0.30 / -0.00	159.28
P240215200PB*	240.00	+0.13 / -0.00	240.00	215.00	20.00	240.00	+0.13 / -0.00	215.00	+0.00 / -0.18	21.00	+0.30 / -0.00	159.28
P240220120PB*	240.00	+0.13 / -0.00	240.00	220.00	12.00	240.00	+0.13 / -0.00	220.00	+0.00 / -0.18	13.00	+0.30 / -0.00	206.31
P240220160PB*	240.00	+0.13 / -0.00	240.00	220.00	16.00	240.00	+0.13 / -0.00	220.00	+0.00 / -0.18	17.00	+0.30 / -0.00	159.28
P250225160PB*	250.00	+0.13 / -0.00	250.00	225.00	16.00	250.00	+0.13 / -0.00	225.00	+0.00 / -0.18	17.00	+0.30 / -0.00	172.99
P250225190PB*	250.00	+0.13 / -0.00	250.00	225.00	19.00	250.00	+0.13 / -0.00	225.00	+0.00 / -0.18	20.00	+0.30 / -0.00	327.03
P250225200PB*	250.00	+0.13 / -0.00	250.00	225.00	20.00	250.00	+0.13 / -0.00	225.00	+0.00 / -0.18	21.00	+0.30 / -0.00	363.25
P250230120PB*	250.00	+0.13 / -0.00	250.00	230.00	12.00	250.00	+0.13 / -0.00	230.00	+0.00 / -0.18	13.00	+0.30 / -0.00	206.31
P250230140PB*	250.00	+0.13 / -0.00	250.00	230.00	14.00	250.00	+0.13 / -0.00	230.00	+0.00 / -0.18	15.00	+0.30 / -0.00	76.09
P250230150PB*	250.00	+0.13 / -0.00	250.00	230.00	15.00	250.00	+0.13 / -0.00	230.00	+0.00 / -0.18	16.00	+0.30 / -0.00	76.09
P250230160PB*	250.00	+0.13 / -0.00	250.00	230.00	16.00	250.00	+0.13 / -0.00	230.00	+0.00 / -0.18	17.00	+0.30 / -0.00	363.25
P250238140PB*	250.00	+0.13 / -0.00	250.00	238.00	14.00	250.00	+0.13 / -0.00	238.00	+0.00 / -0.18	15.00	+0.30 / -0.00	76.09
P255230180PB*	255.00	+0.13 / -0.00	255.00	230.00	18.00	255.00	+0.13 / -0.00	230.00	+0.00 / -0.18	19.00	+0.30 / -0.00	133.55
P255230190PB*	255.00	+0.13 / -0.00	255.00	230.00	19.00	255.00	+0.13 / -0.00	230.00	+0.00 / -0.18	20.00	+0.30 / -0.00	523.74
P260235160PB*	260.00	+0.13 / -0.00	260.00	235.00	16.00	260.00	+0.13 / -0.00	235.00	+0.00 / -0.18	17.00	+0.30 / -0.00	226.12
P260235190PB*	260.00	+0.13 / -0.00	260.00	235.00	19.00	260.00	+0.13 / -0.00	235.00	+0.00 / -0.18	20.00	+0.30 / -0.00	402.79
P260240120PB*	260.00	+0.13 / -0.00	260.00	240.00	12.00	260.00	+0.13 / -0.00	240.00	+0.00 / -0.18	13.00	+0.30 / -0.00	160.89
P260240160PB*	260.00	+0.13 / -0.00	260.00	240.00	16.00	260.00	+0.13 / -0.00	240.00	+0.00 / -0.18	17.00	+0.30 / -0.00	80.41
P270245160PB*	270.00	+0.13 / -0.00	270.00	245.00	16.00	270.00	+0.13 / -0.00	245.00	+0.00 / -0.18	17.00	+0.30 / -0.00	442.33
P270245190PB*	270.00	+0.13 / -0.00	270.00	245.00	19.00	270.00	+0.13 / -0.00	245.00	+0.00 / -0.18	20.00	+0.30 / -0.00	442.33
P270250120PB*	270.00	+0.13 / -0.00	270.00	250.00	12.00	270.00	+0.13 / -0.00	250.00	+0.00 / -0.18	13.00	+0.30 / -0.00	239.36
P270250160PB*	270.00	+0.13 / -0.00	270.00	250.00	16.00	270.00	+0.13 / -0.00	250.00	+0.00 / -0.18	17.00	+0.30 / -0.00	442.33
P275250120PB*	275.00	+0.13 / -0.00	275.00	250.00	12.00	275.00	+0.13 / -0.00	250.00	+0.00 / -0.18	13.00	+0.30 / -0.00	157.00
P275250190PB*	275.00	+0.13 / -0.00	275.00	250.00	19.00	275.00	+0.13 / -0.00	250.00	+0.00 / -0.18	20.00	+0.30 / -0.00	449.35
P275250200PB*	275.00	+0.13 / -0.00	275.00	250.00	20.00	275.00	+0.13 / -0.00	250.00	+0.00 / -0.18	21.00	+0.30 / -0.00	499.13
P280245190PB*	280.00	+0.15 / -0.00	280.00	245.00	19.00	280.00	+0.15 / -0.00	245.00	+0.00 / -0.18	20.00	+0.30 / -0.00	92.73
P280250180PB*	280.00	+0.15 / -0.00	280.00	250.00	18.00	280.00	+0.15 / -0.00	250.00	+0.00 / -0.18	19.00	+0.30 / -0.00	91.46
P280250190PB*	280.00	+0.15 / -0.00	280.00	250.00	19.00	280.00	+0.15 / -0.00	250.00	+0.00 / -0.18	20.00	+0.30 / -0.00	523.90
P280255160PB*	280.00	+0.15 / -0.00	280.00	255.00	16.00	280.00	+0.15 / -0.00	255.00	+0.00 / -0.21	17.00	+0.30 / -0.00	160.89

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

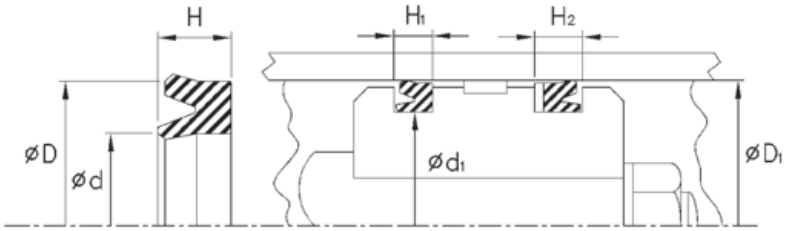
PB SERIES - AU 92A

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P280255190PB*	280.00	+0.15 / -0.00	280.00	255.00	19.00	280.00	+0.15 / -0.00	255.00	+0.00 / -0.21	20.00	+0.30 / -0.00	266.02
P290260190PB*	290.00	+0.15 / -0.00	290.00	260.00	19.00	290.00	+0.15 / -0.00	260.00	+0.00 / -0.21	20.00	+0.30 / -0.00	547.79
P290265160PB*	290.00	+0.15 / -0.00	290.00	265.00	16.00	290.00	+0.15 / -0.00	265.00	+0.00 / -0.21	17.00	+0.30 / -0.00	287.63
P290265190PB*	290.00	+0.15 / -0.00	290.00	265.00	19.00	290.00	+0.15 / -0.00	265.00	+0.00 / -0.21	20.00	+0.30 / -0.00	547.79
P290265240PB*	290.00	+0.15 / -0.00	290.00	265.00	24.00	290.00	+0.15 / -0.00	265.00	+0.00 / -0.21	25.00	+0.30 / -0.00	537.46
P297265250PB*	297.00	+0.15 / -0.00	297.00	265.00	25.00	297.00	+0.15 / -0.00	265.00	+0.00 / -0.21	25.00	+0.30 / -0.00	597.17
P300270120PB*	300.00	+0.15 / -0.00	300.00	270.00	12.00	300.00	+0.15 / -0.00	270.00	+0.00 / -0.21	13.00	+0.30 / -0.00	84.73
P300270190PB	300.00	+0.15 / -0.00	300.00	270.00	19.00	300.00	+0.15 / -0.00	270.00	+0.00 / -0.21	20.00	+0.30 / -0.00	305.19
P300270240PB*	300.00	+0.15 / -0.00	300.00	270.00	24.00	300.00	+0.15 / -0.00	270.00	+0.00 / -0.21	25.00	+0.30 / -0.00	413.93
P300270250PB*	300.00	+0.15 / -0.00	300.00	270.00	25.00	300.00	+0.15 / -0.00	270.00	+0.00 / -0.21	25.00	+0.30 / -0.00	597.17
P300275160PB*	300.00	+0.15 / -0.00	300.00	275.00	16.00	300.00	+0.15 / -0.00	275.00	+0.00 / -0.21	17.00	+0.30 / -0.00	160.89
P300275190PB*	300.00	+0.15 / -0.00	300.00	275.00	19.00	300.00	+0.15 / -0.00	275.00	+0.00 / -0.21	20.00	+0.30 / -0.00	597.17
P300288140PB*	300.00	+0.15 / -0.00	300.00	288.00	14.00	300.00	+0.15 / -0.00	288.00	+0.00 / -0.21	15.00	+0.30 / -0.00	93.50
P305280160PB*	305.00	+0.15 / -0.00	305.00	280.00	16.00	305.00	+0.15 / -0.00	280.00	+0.00 / -0.21	17.00	+0.30 / -0.00	926.69
P310278180PB*	310.00	+0.15 / -0.00	310.00	278.00	18.00	310.00	+0.15 / -0.00	278.00	+0.00 / -0.21	19.00	+0.30 / -0.00	141.91
P312280240PB*	312.00	+0.15 / -0.00	312.00	280.00	24.00	312.00	+0.15 / -0.00	280.00	+0.00 / -0.21	25.00	+0.30 / -0.00	595.39
P320290190PB*	320.00	+0.15 / -0.00	320.00	290.00	19.00	320.00	+0.15 / -0.00	290.00	+0.00 / -0.21	20.00	+0.30 / -0.00	1092.10
P320290200PB*	320.00	+0.15 / -0.00	320.00	290.00	20.00	320.00	+0.15 / -0.00	290.00	+0.00 / -0.21	21.00	+0.30 / -0.00	144.06
P320290240PB*	320.00	+0.15 / -0.00	320.00	290.00	24.00	320.00	+0.15 / -0.00	290.00	+0.00 / -0.21	25.00	+0.30 / -0.00	248.00
P320295160PB*	320.00	+0.15 / -0.00	320.00	295.00	16.00	320.00	+0.15 / -0.00	295.00	+0.00 / -0.21	17.00	+0.30 / -0.00	949.61
P320295180PB*	320.00	+0.15 / -0.00	320.00	295.00	18.00	320.00	+0.15 / -0.00	295.00	+0.00 / -0.21	19.00	+0.30 / -0.00	137.07
P325295200PB*	325.00	+0.15 / -0.00	325.00	295.00	20.00	325.00	+0.15 / -0.00	295.00	+0.00 / -0.21	21.00	+0.30 / -0.00	1100.98
P330300190PB*	330.00	+0.15 / -0.00	330.00	300.00	19.00	330.00	+0.15 / -0.00	300.00	+0.00 / -0.21	20.00	+0.30 / -0.00	1109.77
P332300240PB*	332.00	+0.15 / -0.00	332.00	300.00	24.00	332.00	+0.15 / -0.00	300.00	+0.00 / -0.21	25.00	+0.30 / -0.00	725.14
P350330200PB*	350.00	+0.15 / -0.00	350.00	330.00	20.00	350.00	+0.15 / -0.00	330.00	+0.00 / -0.23	21.00	+0.30 / -0.00	995.84
P380345200PB*	380.00	+0.15 / -0.00	380.00	345.00	20.00	380.00	+0.15 / -0.00	345.00	+0.00 / -0.23	21.00	+0.30 / -0.00	155.23
P385355220PB*	385.00	+0.15 / -0.00	385.00	355.00	22.00	385.00	+0.15 / -0.00	355.00	+0.00 / -0.23	23.00	+0.30 / -0.00	371.52
P390345200PB*	390.00	+0.15 / -0.00	390.00	345.00	20.00	390.00	+0.15 / -0.00	345.00	+0.00 / -0.23	21.00	+0.30 / -0.00	1066.93
P420390190PB*	420.00	+0.15 / -0.00	420.00	390.00	19.00	420.00	+0.15 / -0.00	390.00	+0.00 / -0.23	20.00	+0.30 / -0.00	1103.48
P450420220PB*	450.00	+0.15 / -0.00	450.00	420.00	22.00	450.00	+0.15 / -0.00	420.00	+0.00 / -0.23	23.00	+0.30 / -0.00	183.44
P750720200PB*	750.00	+0.15 / -0.00	750.00	720.00	20.00	750.00	+0.15 / -0.00	720.00	+0.00 / -0.25	21.00	+0.30 / -0.00	4675.18

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

PB/N - Piston Seals

Nitrile NBR 85A



N.B.: $H_2=H_1$ + B.UP RING THICKNESS

Temperature: -22/176F [-30/80C] **Pressure: 2300 PSI [16 Bar]**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	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	4.31
P007004020PB/N*	7.50	+0.08 / -0.00	7.50	4.00	2.00	7.50	+0.08 / -0.00	4.00	+0.00 / -0.03	2.50	+0.20 / -0.00	3.75
P009004035PB/N*	9.00	+0.08 / -0.00	9.00	4.00	3.50	9.00	+0.08 / -0.00	4.00	+0.00 / -0.03	4.00	+0.20 / -0.00	4.13
P009004060PB/N*	9.00	+0.08 / -0.00	9.00	4.00	6.00	9.00	+0.08 / -0.00	4.00	+0.00 / -0.03	6.50	+0.20 / -0.00	4.31
P012004040PB/N*	12.00	+0.08 / -0.00	12.00	4.50	4.00	12.00	+0.08 / -0.00	4.50	+0.00 / -0.03	4.50	+0.20 / -0.00	4.31
P012005070PB/N*	12.00	+0.08 / -0.00	12.00	5.00	7.00	12.00	+0.08 / -0.00	5.00	+0.00 / -0.03	7.50	+0.20 / -0.00	4.31
P012006040PB/N	12.00	+0.08 / -0.00	12.00	6.00	4.00	12.00	+0.08 / -0.00	6.00	+0.00 / -0.03	4.50	+0.20 / -0.00	4.13
P012007025PB/N*	12.00	+0.08 / -0.00	12.00	7.00	2.55	12.00	+0.08 / -0.00	7.00	+0.00 / -0.03	3.05	+0.20 / -0.00	4.13
P014006060PB/N*	14.00	+0.08 / -0.00	14.00	6.00	6.00	14.00	+0.08 / -0.00	6.00	+0.00 / -0.03	6.50	+0.20 / -0.00	4.31
P014006080PB/N*	14.00	+0.08 / -0.00	14.00	6.00	8.00	14.00	+0.08 / -0.00	6.00	+0.00 / -0.03	8.50	+0.20 / -0.00	4.31
P014008040PB/N*	14.00	+0.08 / -0.00	14.00	8.00	4.00	14.00	+0.08 / -0.00	8.00	+0.00 / -0.03	4.50	+0.20 / -0.00	8.59
P014008045PB/N*	14.00	+0.08 / -0.00	14.00	8.00	4.50	14.00	+0.08 / -0.00	8.00	+0.00 / -0.03	5.00	+0.20 / -0.00	4.31
P015009080PB/N*	15.00	+0.08 / -0.00	15.00	9.00	8.00	15.00	+0.08 / -0.00	9.00	+0.00 / -0.03	8.50	+0.20 / -0.00	4.31
P016006100PB/N*	16.00	+0.08 / -0.00	16.00	6.00	10.00	16.00	+0.08 / -0.00	6.00	+0.00 / -0.03	11.00	+0.20 / -0.00	4.50
P016008055PB/N*	16.00	+0.08 / -0.00	16.00	8.00	5.50	16.00	+0.08 / -0.00	8.00	+0.00 / -0.03	6.00	+0.20 / -0.00	4.31
P016009055PB/N*	16.00	+0.08 / -0.00	16.00	9.00	5.50	16.00	+0.08 / -0.00	9.00	+0.00 / -0.03	6.00	+0.20 / -0.00	4.31
P016010025PB/N*	16.00	+0.08 / -0.00	16.00	10.00	2.55	16.00	+0.08 / -0.00	10.00	+0.00 / -0.03	3.05	+0.20 / -0.00	4.31
P016010040PB/N*	16.00	+0.08 / -0.00	16.00	10.00	4.00	16.00	+0.08 / -0.00	10.00	+0.00 / -0.03	4.50	+0.20 / -0.00	4.31
P016010055PB/N*	16.00	+0.08 / -0.00	16.00	10.00	5.50	16.00	+0.08 / -0.00	10.00	+0.00 / -0.03	6.00	+0.20 / -0.00	4.31
P016010060PB/N	16.00	+0.08 / -0.00	16.00	10.00	6.00	16.00	+0.08 / -0.00	10.00	+0.00 / -0.03	6.50	+0.20 / -0.00	6.42
P016010080PB/N*	16.00	+0.08 / -0.00	16.00	10.00	8.00	16.00	+0.08 / -0.00	10.00	+0.00 / -0.03	8.50	+0.20 / -0.00	4.69
P018010055PB/N	18.00	+0.08 / -0.00	18.00	10.00	5.50	18.00	+0.08 / -0.00	10.00	+0.00 / -0.03	6.00	+0.20 / -0.00	5.42
P020012055PB/N*	20.00	+0.08 / -0.00	20.00	12.00	5.50	20.00	+0.08 / -0.00	12.00	+0.00 / -0.04	6.00	+0.20 / -0.00	5.44
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	5.25
P020014042PB/N*	20.00	+0.08 / -0.00	20.00	14.00	4.20	20.00	+0.08 / -0.00	14.00	+0.00 / -0.04	4.70	+0.20 / -0.00	5.25
P020014055PB/N*	20.00	+0.08 / -0.00	20.00	14.00	5.50	20.00	+0.08 / -0.00	14.00	+0.00 / -0.04	6.00	+0.20 / -0.00	5.44
P022010080PB/N*	22.00	+0.08 / -0.00	22.00	10.00	8.00	22.00	+0.08 / -0.00	10.00	+0.00 / -0.04	8.50	+0.20 / -0.00	5.63
P022014055PB/N*	22.00	+0.08 / -0.00	22.00	14.00	5.50	22.00	+0.08 / -0.00	14.00	+0.00 / -0.04	6.00	+0.20 / -0.00	14.76
P022016040PB/N*	22.00	+0.08 / -0.00	22.00	16.00	4.00	22.00	+0.08 / -0.00	16.00	+0.00 / -0.04	4.50	+0.20 / -0.00	5.44
P022016055PB/N*	22.00	+0.08 / -0.00	22.00	16.00	5.50	22.00	+0.08 / -0.00	16.00	+0.00 / -0.04	6.00	+0.20 / -0.00	5.44
P025015050PB/N*	25.00	+0.08 / -0.00	25.00	15.00	5.00	25.00	+0.08 / -0.00	15.00	+0.00 / -0.04	5.50	+0.20 / -0.00	5.44
P025017055PB/N*	25.00	+0.08 / -0.00	25.00	17.00	5.50	25.00	+0.08 / -0.00	17.00	+0.00 / -0.04	6.00	+0.20 / -0.00	5.63
P025018050PB/N*	25.00	+0.08 / -0.00	25.00	18.00	5.00	25.00	+0.08 / -0.00	18.00	+0.00 / -0.04	5.50	+0.20 / -0.00	5.44
P025019030PB/N*	25.00	+0.08 / -0.00	25.00	19.00	3.00	25.00	+0.08 / -0.00	19.00	+0.00 / -0.04	3.50	+0.20 / -0.00	5.44
P025019060PB/N*	25.00	+0.08 / -0.00	25.00	19.00	6.00	25.00	+0.08 / -0.00	19.00	+0.00 / -0.04	6.50	+0.20 / -0.00	5.63
P026018055PB/N*	26.00	+0.08 / -0.00	26.00	18.00	5.50	26.00	+0.08 / -0.00	18.00	+0.00 / -0.04	6.00	+0.20 / -0.00	5.63
P028016090PB/N*	28.00	+0.08 / -0.00	28.00	16.00	9.00	28.00	+0.08 / -0.00	16.00	+0.00 / -0.04	10.00	+0.20 / -0.00	5.82
P028018070PB/N*	28.00	+0.08 / -0.00	28.00	18.00	7.00	28.00	+0.08 / -0.00	18.00	+0.00 / -0.04	7.50	+0.20 / -0.00	5.63

*** : 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.	
P028020055PB/N	28.00	+0.08 / -0.00	28.00	20.00	5.50	28.00	+0.08 / -0.00	20.00	+0.00 / -0.05	6.00	+0.20 / -0.00	6.57
P030015102PB/N*	30.00	+0.08 / -0.00	30.00	15.00	10.20	30.00	+0.08 / -0.00	15.00	+0.00 / -0.04	11.20	+0.20 / -0.00	6.57
P030020070PB/N*	30.00	+0.08 / -0.00	30.00	20.00	7.00	30.00	+0.08 / -0.00	20.00	+0.00 / -0.05	7.50	+0.20 / -0.00	6.19
P030022060PB/N*	30.00	+0.08 / -0.00	30.00	22.00	6.00	30.00	+0.08 / -0.00	22.00	+0.00 / -0.05	6.50	+0.20 / -0.00	6.19
P032022050PB/N*	32.00	+0.08 / -0.00	32.00	22.00	5.00	32.00	+0.08 / -0.00	22.00	+0.00 / -0.05	5.50	+0.20 / -0.00	6.19
P032022070PB/N*	32.00	+0.08 / -0.00	32.00	22.00	7.00	32.00	+0.08 / -0.00	22.00	+0.00 / -0.05	7.50	+0.20 / -0.00	6.19
P032024055PB/N*	32.00	+0.08 / -0.00	32.00	24.00	5.50	32.00	+0.08 / -0.00	24.00	+0.00 / -0.05	6.00	+0.20 / -0.00	6.19
P035020100PB/N*	35.00	+0.08 / -0.00	35.00	20.00	10.00	35.00	+0.08 / -0.00	20.00	+0.00 / -0.05	11.00	+0.20 / -0.00	7.50
P035025065PB/N*	35.00	+0.08 / -0.00	35.00	25.00	6.50	35.00	+0.08 / -0.00	25.00	+0.00 / -0.05	7.00	+0.20 / -0.00	7.32
P035025070PB/N*	35.00	+0.08 / -0.00	35.00	25.00	7.00	35.00	+0.08 / -0.00	25.00	+0.00 / -0.05	7.50	+0.20 / -0.00	7.32
P035025080PB/N*	35.00	+0.08 / -0.00	35.00	25.00	8.00	35.00	+0.08 / -0.00	25.00	+0.00 / -0.05	8.50	+0.20 / -0.00	7.32
P035027100PB/N*	35.00	+0.08 / -0.00	35.00	27.00	10.00	35.00	+0.08 / -0.00	27.00	+0.00 / -0.05	11.00	+0.20 / -0.00	7.32
P036024060PB/N	36.00	+0.08 / -0.00	36.00	24.00	6.00	36.00	+0.08 / -0.00	24.00	+0.00 / -0.05	6.50	+0.20 / -0.00	7.32
P036026070PB/N	36.00	+0.08 / -0.00	36.00	26.00	7.00	36.00	+0.08 / -0.00	26.00	+0.00 / -0.05	7.50	+0.20 / -0.00	14.99
P036028070PB/N*	36.00	+0.08 / -0.00	36.00	28.00	7.00	36.00	+0.08 / -0.00	28.00	+0.00 / -0.05	7.50	+0.20 / -0.00	7.32
P038028070PB/N*	38.00	+0.08 / -0.00	38.00	28.00	7.00	38.00	+0.08 / -0.00	28.00	+0.00 / -0.05	7.50	+0.20 / -0.00	7.50
P039032050PB/N*	39.00	+0.08 / -0.00	39.00	32.00	5.00	39.00	+0.08 / -0.00	32.00	+0.00 / -0.05	5.50	+0.20 / -0.00	7.13
P040028090PB/N	40.00	+0.08 / -0.00	40.00	28.00	9.00	40.00	+0.08 / -0.00	28.00	+0.00 / -0.05	10.00	+0.20 / -0.00	7.50
P040028100PB/N*	40.00	+0.08 / -0.00	40.00	28.00	10.00	40.00	+0.08 / -0.00	28.00	+0.00 / -0.06	11.00	+0.20 / -0.00	7.50
P040030050PB/N*	40.00	+0.08 / -0.00	40.00	30.00	5.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.06	5.50	+0.20 / -0.00	7.32
P040030060PB/N*	40.00	+0.08 / -0.00	40.00	30.00	6.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.06	6.50	+0.20 / -0.00	7.32
P040030070PB/N	40.00	+0.08 / -0.00	40.00	30.00	7.00	40.00	+0.08 / -0.00	30.00	+0.00 / -0.05	7.50	+0.20 / -0.00	7.32
P040032032PB/N*	40.00	+0.08 / -0.00	40.00	32.00	3.25	40.00	+0.08 / -0.00	32.00	+0.00 / -0.06	3.75	+0.20 / -0.00	7.13
P040032055PB/N	40.00	+0.08 / -0.00	40.00	32.00	5.50	40.00	+0.08 / -0.00	32.00	+0.00 / -0.06	6.00	+0.20 / -0.00	7.32
P043035090PB/N*	43.00	+0.08 / -0.00	43.00	35.00	9.00	43.00	+0.08 / -0.00	35.00	+0.00 / -0.06	10.00	+0.20 / -0.00	7.32
P043038038PB/N*	43.00	+0.08 / -0.00	43.00	38.00	3.80	43.00	+0.08 / -0.00	38.00	+0.00 / -0.06	4.30	+0.20 / -0.00	7.13
P045035060PB/N*	45.00	+0.08 / -0.00	45.00	35.00	6.00	45.00	+0.08 / -0.00	35.00	+0.00 / -0.06	6.50	+0.20 / -0.00	8.07
P045035070PB/N	45.00	+0.08 / -0.00	45.00	35.00	7.00	45.00	+0.08 / -0.00	35.00	+0.00 / -0.06	7.50	+0.20 / -0.00	9.37
P045037070PB/N*	45.00	+0.08 / -0.00	45.00	37.00	7.00	45.00	+0.08 / -0.00	37.00	+0.00 / -0.06	7.50	+0.20 / -0.00	8.07
P045038060PB/N*	45.00	+0.08 / -0.00	45.00	38.00	6.00	45.00	+0.08 / -0.00	38.00	+0.00 / -0.06	6.50	+0.20 / -0.00	8.07
P050038060PB/N	50.00	+0.08 / -0.00	50.00	38.00	6.00	50.00	+0.08 / -0.00	38.00	+0.00 / -0.06	6.50	+0.20 / -0.00	9.19
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	9.19
P050040070PB/N	50.00	+0.08 / -0.00	50.00	40.00	7.00	50.00	+0.08 / -0.00	40.00	+0.00 / -0.06	7.50	+0.20 / -0.00	9.19
P050042100PB/N*	50.00	+0.08 / -0.00	50.00	42.00	10.00	50.00	+0.08 / -0.00	42.00	+0.00 / -0.06	11.00	+0.20 / -0.00	9.19
P052042050PB/N*	52.00	+0.08 / -0.00	52.00	42.00	5.00	52.00	+0.08 / -0.00	42.00	+0.00 / -0.06	5.50	+0.20 / -0.00	9.19
P055045070PB/N*	55.00	+0.08 / -0.00	55.00	45.00	7.00	55.00	+0.08 / -0.00	45.00	+0.00 / -0.06	7.50	+0.20 / -0.00	9.38
P055045075PB/N*	55.00	+0.08 / -0.00	55.00	45.00	7.50	55.00	+0.08 / -0.00	45.00	+0.00 / -0.06	8.00	+0.20 / -0.00	9.57
P055045100PB/N*	55.00	+0.08 / -0.00	55.00	45.00	10.00	55.00	+0.08 / -0.00	45.00	+0.00 / -0.06	11.00	+0.20 / -0.00	9.57
P056046070PB/N*	56.00	+0.08 / -0.00	56.00	46.00	7.00	56.00	+0.08 / -0.00	46.00	+0.00 / -0.06	7.50	+0.20 / -0.00	9.38
P060044120PB/N*	60.00	+0.08 / -0.00	60.00	44.00	12.00	60.00	+0.08 / -0.00	44.00	+0.00 / -0.06	13.00	+0.20 / -0.00	11.07
P060050070PB/N*	60.00	+0.08 / -0.00	60.00	50.00	7.00	60.00	+0.08 / -0.00	50.00	+0.00 / -0.06	7.50	+0.20 / -0.00	11.07
P060050073PB/N*	60.00	+0.08 / -0.00	60.00	50.00	7.30	60.00	+0.08 / -0.00	50.00	+0.00 / -0.06	7.80	+0.20 / -0.00	11.07
P060050100PB/N*	60.00	+0.08 / -0.00	60.00	50.00	10.00	60.00	+0.08 / -0.00	50.00	+0.00 / -0.06	11.00	+0.20 / -0.00	11.44
P062052070PB/N	62.00	+0.08 / -0.00	62.00	52.00	7.00	62.00	+0.08 / -0.00	52.00	+0.00 / -0.07	7.50	+0.20 / -0.00	11.07
P063050100PB/N*	63.00	+0.08 / -0.00	63.00	50.00	10.00	63.00	+0.08 / -0.00	50.00	+0.00 / -0.07	11.00	+0.20 / -0.00	11.26
P063053042PB/N*	63.00	+0.08 / -0.00	63.00	53.00	4.25	63.00	+0.08 / -0.00	53.00	+0.00 / -0.07	4.75	+0.20 / -0.00	9.94
P063053070PB/N	63.00	+0.08 / -0.00	63.00	53.00	7.00	63.00	+0.08 / -0.00	53.00	+0.00 / -0.07	7.50	+0.20 / -0.00	10.13
P065053060PB/N*	65.00	+0.08 / -0.00	65.00	53.00	6.00	65.00	+0.08 / -0.00	53.00	+0.00 / -0.07	6.50	+0.20 / -0.00	10.13

*** : 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.	
P065055070PB/N*	65.00	+0.08 / -0.00	65.00	55.00	7.00	65.00	+0.08 / -0.00	55.00	+0.00 / -0.07	7.50	+0.20 / -0.00	10.32
P070050140PB/N*	70.00	+0.08 / -0.00	70.00	50.00	14.00	70.00	+0.08 / -0.00	50.00	+0.00 / -0.06	15.00	+0.20 / -0.00	12.76
P070058085PB/N*	70.00	+0.08 / -0.00	70.00	58.00	8.50	70.00	+0.08 / -0.00	58.00	+0.00 / -0.07	9.00	+0.20 / -0.00	11.26
P070060070PB/N*	70.00	+0.08 / -0.00	70.00	60.00	7.00	70.00	+0.08 / -0.00	60.00	+0.00 / -0.07	7.50	+0.20 / -0.00	10.88
P070060100PB/N*	70.00	+0.08 / -0.00	70.00	60.00	10.00	70.00	+0.08 / -0.00	60.00	+0.00 / -0.07	11.00	+0.20 / -0.00	11.26
P070062080PB/N*	70.00	+0.08 / -0.00	70.00	62.00	8.00	70.00	+0.08 / -0.00	62.00	+0.00 / -0.07	8.50	+0.20 / -0.00	10.88
P075063085PB/N*	75.00	+0.08 / -0.00	75.00	63.00	8.50	75.00	+0.08 / -0.00	63.00	+0.00 / -0.07	9.00	+0.20 / -0.00	13.13
P075065075PB/N*	75.00	+0.08 / -0.00	75.00	65.00	7.50	75.00	+0.08 / -0.00	65.00	+0.00 / -0.07	8.00	+0.20 / -0.00	10.88
P080064080PB/N*	80.00	+0.10 / -0.00	80.00	64.00	8.00	80.00	+0.10 / -0.00	64.00	+0.00 / -0.07	8.50	+0.20 / -0.00	12.76
P080065100PB/N*	80.00	+0.10 / -0.00	80.00	65.00	10.00	80.00	+0.10 / -0.00	65.00	+0.00 / -0.07	11.00	+0.20 / -0.00	13.13
P080068085PB/N	80.00	+0.10 / -0.00	80.00	68.00	8.50	80.00	+0.10 / -0.00	68.00	+0.00 / -0.07	9.00	+0.20 / -0.00	12.57
P080072120PB/N*	80.00	+0.10 / -0.00	80.00	72.00	12.00	80.00	+0.10 / -0.00	72.00	+0.00 / -0.07	13.00	+0.20 / -0.00	12.57
P085073085PB/N*	85.00	+0.10 / -0.00	85.00	73.00	8.50	85.00	+0.10 / -0.00	73.00	+0.00 / -0.07	9.00	+0.20 / -0.00	13.51
P090078085PB/N*	90.00	+0.10 / -0.00	90.00	78.00	8.50	90.00	+0.10 / -0.00	78.00	+0.00 / -0.07	9.00	+0.20 / -0.00	14.45
P100084080PB/N*	100.00	+0.10 / -0.00	100.00	84.00	8.00	100.00	+0.10 / -0.00	84.00	+0.00 / -0.08	8.50	+0.20 / -0.00	15.76
P100085090PB/N*	100.00	+0.10 / -0.00	100.00	85.00	9.00	100.00	+0.10 / -0.00	85.00	+0.00 / -0.08	10.00	+0.20 / -0.00	15.76
P100085120PB/N*	100.00	+0.10 / -0.00	100.00	85.00	12.00	100.00	+0.10 / -0.00	85.00	+0.00 / -0.08	13.00	+0.20 / -0.00	16.32
P100088085PB/N	100.00	+0.10 / -0.00	100.00	88.00	8.50	100.00	+0.10 / -0.00	88.00	+0.00 / -0.08	9.00	+0.20 / -0.00	15.38
P100090043PB/N*	100.00	+0.10 / -0.00	100.00	90.00	4.30	100.00	+0.10 / -0.00	90.00	+0.00 / -0.08	4.80	+0.20 / -0.00	15.01
P100090065PB/N*	100.00	+0.10 / -0.00	100.00	90.00	6.50	100.00	+0.10 / -0.00	90.00	+0.00 / -0.08	7.00	+0.20 / -0.00	15.20
P100090072PB/N*	100.00	+0.10 / -0.00	100.00	90.00	7.20	100.00	+0.10 / -0.00	90.00	+0.00 / -0.08	7.70	+0.20 / -0.00	15.20
P100090085PB/N*	100.00	+0.10 / -0.00	100.00	90.00	8.50	100.00	+0.10 / -0.00	90.00	+0.00 / -0.08	9.00	+0.20 / -0.00	15.20
P105094080PB/N*	105.00	+0.10 / -0.00	105.00	94.00	8.00	105.00	+0.10 / -0.00	94.00	+0.00 / -0.08	8.50	+0.20 / -0.00	16.32
P110090150PB/N*	110.00	+0.10 / -0.00	110.00	90.00	15.00	110.00	+0.10 / -0.00	90.00	+0.00 / -0.08	16.00	+0.20 / -0.00	17.82
P110095100PB/N*	110.00	+0.10 / -0.00	110.00	95.00	10.00	110.00	+0.10 / -0.00	95.00	+0.00 / -0.08	11.00	+0.20 / -0.00	16.32
P120105100PB/N*	120.00	+0.10 / -0.00	120.00	105.00	10.00	120.00	+0.10 / -0.00	105.00	+0.00 / -0.08	11.00	+0.20 / -0.00	21.76
P125105120PB/N*	125.00	+0.10 / -0.00	125.00	105.00	12.00	125.00	+0.10 / -0.00	105.00	+0.00 / -0.08	13.00	+0.20 / -0.00	20.07
P125105150PB/N*	125.00	+0.10 / -0.00	125.00	105.00	15.00	125.00	+0.10 / -0.00	105.00	+0.00 / -0.08	16.00	+0.20 / -0.00	21.01
P125105160PB/N*	125.00	+0.10 / -0.00	125.00	105.00	16.00	125.00	+0.10 / -0.00	105.00	+0.00 / -0.08	17.00	+0.20 / -0.00	21.01
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	18.76
P125115072PB/N*	125.00	+0.10 / -0.00	125.00	115.00	7.20	125.00	+0.10 / -0.00	115.00	+0.00 / -0.08	7.70	+0.20 / -0.00	21.01
P130110120PB/N*	130.00	+0.10 / -0.00	130.00	110.00	12.00	130.00	+0.10 / -0.00	110.00	+0.00 / -0.08	13.00	+0.20 / -0.00	23.26
P140120140PB/N*	140.00	+0.10 / -0.00	140.00	120.00	14.00	140.00	+0.10 / -0.00	120.00	+0.00 / -0.10	15.00	+0.20 / -0.00	20.95
P140120160PB/N*	140.00	+0.10 / -0.00	140.00	120.00	16.00	140.00	+0.10 / -0.00	120.00	+0.00 / -0.08	17.00	+0.20 / -0.00	25.14
P140125100PB/N*	140.00	+0.10 / -0.00	140.00	125.00	10.00	140.00	+0.10 / -0.00	125.00	+0.00 / -0.10	11.00	+0.20 / -0.00	27.52
P145130100PB/N*	145.00	+0.10 / -0.00	145.00	130.00	10.00	145.00	+0.10 / -0.00	130.00	+0.00 / -0.10	11.00	+0.20 / -0.00	27.52
P150135080PB/N*	150.00	+0.10 / -0.00	150.00	135.00	8.00	150.00	+0.10 / -0.00	135.00	+0.00 / -0.10	8.50	+0.20 / -0.00	24.54
P160140140PB/N*	160.00	+0.10 / -0.00	160.00	140.00	14.00	160.00	+0.10 / -0.00	140.00	+0.00 / -0.10	15.00	+0.20 / -0.00	27.52
P160145100PB/N*	160.00	+0.10 / -0.00	160.00	145.00	10.00	160.00	+0.10 / -0.00	145.00	+0.00 / -0.10	11.00	+0.20 / -0.00	26.58
P160145140PB/N*	160.00	+0.10 / -0.00	160.00	145.00	14.00	160.00	+0.10 / -0.00	145.00	+0.00 / -0.10	15.00	+0.20 / -0.00	26.42
P170148150PB/N*	170.00	+0.10 / -0.00	170.00	148.00	15.00	170.00	+0.10 / -0.00	148.00	+0.00 / -0.10	16.00	+0.20 / -0.00	32.67
P175155140PB/N*	175.00	+0.13 / -0.00	175.00	155.00	14.00	175.00	+0.13 / -0.00	155.00	+0.00 / -0.10	15.00	+0.20 / -0.00	31.89
P180160090PB/N*	180.00	+0.13 / -0.00	180.00	160.00	9.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.10	10.00	+0.20 / -0.00	38.30
P180160140PB/N*	180.00	+0.13 / -0.00	180.00	160.00	14.00	180.00	+0.13 / -0.00	160.00	+0.00 / -0.10	15.00	+0.20 / -0.00	40.33
P190170140PB/N*	190.00	+0.13 / -0.00	190.00	170.00	14.00	190.00	+0.13 / -0.00	170.00	+0.00 / -0.10	15.00	+0.20 / -0.00	48.78
P200175160PB/N*	200.00	+0.13 / -0.00	200.00	175.00	16.00	200.00	+0.13 / -0.00	175.00	+0.00 / -0.11	17.00	+0.20 / -0.00	51.75
P200180136PB/N*	200.00	+0.13 / -0.00	200.00	180.00	13.60	200.00	+0.13 / -0.00	180.00	+0.00 / -0.11	14.60	+0.20 / -0.00	49.09
P200180140PB/N*	200.00	+0.13 / -0.00	200.00	180.00	14.00	200.00	+0.13 / -0.00	180.00	+0.00 / -0.10	15.00	+0.20 / -0.00	49.09

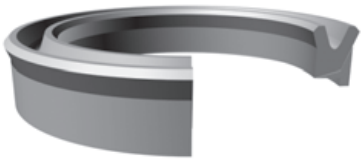
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

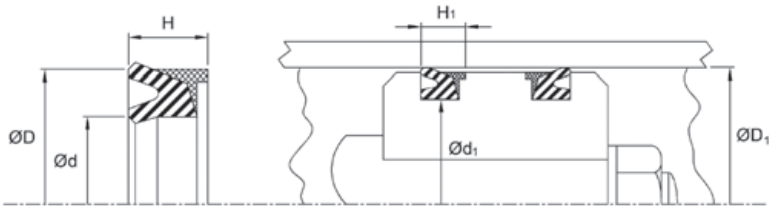
PB/N SERIES - NBR 85A

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P250230140PB/N*	250.00	+0.13 / -0.00	250.00	230.00	14.00	250.00	+0.13 / -0.00	230.00	+0.00 / -0.11	15.00	+0.20 / -0.00	69.88
P300270120PB/N*	300.00	+0.13 / -0.00	300.00	270.00	12.00	300.00	+0.13 / -0.00	270.00	+0.00 / -0.11	13.00	+0.20 / -0.00	91.93
P330310120PB/N*	330.00	+0.13 / -0.00	330.00	310.00	12.00	330.00	+0.13 / -0.00	310.00	+0.00 / -0.11	13.00	+0.20 / -0.00	117.25
P360330200PB/N*	360.00	+0.13 / -0.00	360.00	330.00	20.00	360.00	+0.13 / -0.00	330.00	+0.00 / -0.11	21.00	+0.20 / -0.00	162.59

PH - Piston Seals

Nitrile/Nylon





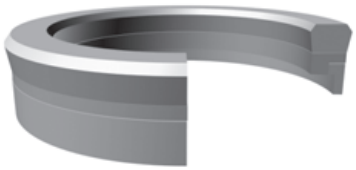
Temperature: -20/220F [-29/104C] **Pressure: 3000 PSI [205 Bar]**

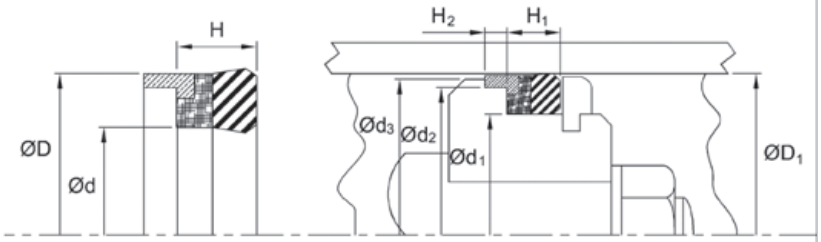
Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P045027121PH	45.00	+0.08 / -0.00	45.00	27.00	12.10	45.00	+0.08 / -0.00	27.00	+0.00 / -0.08	12.50	+0.30 / -0.00	28.17
P050032121PH	50.00	+0.08 / -0.00	50.00	32.00	12.10	50.00	+0.08 / -0.00	32.00	+0.00 / -0.10	12.50	+0.30 / -0.00	35.50
P055037121PH*	55.00	+0.08 / -0.00	55.00	37.00	12.10	55.00	+0.08 / -0.00	37.00	+0.00 / -0.10	12.50	+0.30 / -0.00	35.50
P060043121PH*	60.00	+0.08 / -0.00	60.00	43.00	12.10	60.00	+0.08 / -0.00	43.00	+0.00 / -0.10	12.50	+0.30 / -0.00	35.50
P065047121PH	65.00	+0.08 / -0.00	65.00	47.00	12.10	65.00	+0.08 / -0.00	47.00	+0.00 / -0.10	12.50	+0.30 / -0.00	35.50
P065050095PH*	65.00	+0.08 / -0.00	65.00	50.00	9.50	65.00	+0.08 / -0.00	50.00	+0.00 / -0.10	9.90	+0.30 / -0.00	35.50
P070048145PH	70.00	+0.08 / -0.00	70.00	48.00	14.50	70.00	+0.08 / -0.00	48.00	+0.00 / -0.10	15.50	+0.30 / -0.00	35.50
P080058145PH	80.00	+0.10 / -0.00	80.00	58.00	14.50	80.00	+0.10 / -0.00	58.00	+0.00 / -0.12	15.50	+0.30 / -0.00	35.50
P090068145PH	90.00	+0.10 / -0.00	90.00	68.00	14.50	90.00	+0.10 / -0.00	68.00	+0.00 / -0.12	15.50	+0.30 / -0.00	41.93
P100078145PH	100.00	+0.10 / -0.00	100.00	78.00	14.50	100.00	+0.10 / -0.00	78.00	+0.00 / -0.12	15.50	+0.30 / -0.00	41.93
P110088145PH	110.00	+0.10 / -0.00	110.00	88.00	14.50	110.00	+0.10 / -0.00	88.00	+0.00 / -0.14	15.50	+0.30 / -0.00	46.91
P115093145PH*	115.00	+0.10 / -0.00	115.00	93.00	14.50	115.00	+0.10 / -0.00	93.00	+0.00 / -0.14	15.50	+0.30 / -0.00	46.91
P120098145PH	120.00	+0.10 / -0.00	120.00	98.00	14.50	120.00	+0.10 / -0.00	98.00	+0.00 / -0.14	15.50	+0.30 / -0.00	48.67
P122098145PH*	122.00	+0.10 / -0.00	122.00	98.00	14.50	122.00	+0.10 / -0.00	98.00	+0.00 / -0.14	15.50	+0.30 / -0.00	50.06
P125103145PH	125.00	+0.10 / -0.00	125.00	103.00	14.50	125.00	+0.10 / -0.00	103.00	+0.00 / -0.14	15.50	+0.30 / -0.00	52.81
P130108145PH*	130.00	+0.10 / -0.00	130.00	108.00	14.50	130.00	+0.10 / -0.00	108.00	+0.00 / -0.14	15.50	+0.30 / -0.00	52.81
P140118145PH	140.00	+0.10 / -0.00	140.00	118.00	14.50	140.00	+0.10 / -0.00	118.00	+0.00 / -0.14	15.50	+0.30 / -0.00	60.89
P150128145PH	150.00	+0.10 / -0.00	150.00	128.00	14.50	150.00	+0.10 / -0.00	128.00	+0.00 / -0.16	15.50	+0.30 / -0.00	67.88
P160138145PH	160.00	+0.10 / -0.00	160.00	138.00	14.50	160.00	+0.10 / -0.00	138.00	+0.00 / -0.16	15.50	+0.30 / -0.00	73.16
P170148145PH	170.00	+0.10 / -0.00	170.00	148.00	14.50	170.00	+0.10 / -0.00	148.00	+0.00 / -0.16	15.50	+0.30 / -0.00	79.00
P180158145PH	180.00	+0.13 / -0.00	180.00	158.00	14.50	180.00	+0.13 / -0.00	158.00	+0.00 / -0.16	15.50	+0.30 / -0.00	84.38
P190168145PH*	190.00	+0.13 / -0.00	190.00	168.00	14.50	190.00	+0.13 / -0.00	168.00	+0.00 / -0.16	15.50	+0.30 / -0.00	89.59
P200178145PH*	200.00	+0.13 / -0.00	200.00	178.00	14.50	200.00	+0.13 / -0.00	178.00	+0.00 / -0.16	15.50	+0.30 / -0.00	91.60
P225203145PH*	225.00	+0.13 / -0.00	225.00	203.00	14.50	225.00	+0.13 / -0.00	203.00	+0.00 / -0.18	15.50	+0.30 / -0.00	216.20
P230208145PH*	230.00	+0.13 / -0.00	230.00	208.00	14.50	230.00	+0.13 / -0.00	208.00	+0.00 / -0.18	15.50	+0.30 / -0.00	273.04
P250225163PH*	250.00	+0.13 / -0.00	250.00	225.00	16.30	250.00	+0.13 / -0.00	225.00	+0.00 / -0.18	17.50	+0.30 / -0.00	426.42
P250228145PH*	250.00	+0.13 / -0.00	250.00	228.00	14.50	250.00	+0.13 / -0.00	228.00	+0.00 / -0.18	15.50	+0.30 / -0.00	633.45

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

PR - Piston Seals

Nitrile/Neofab/Polyamide





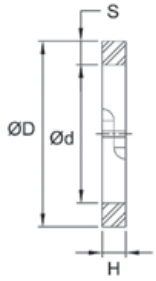
Temperature: -22/212F [-30/100C] **Pressure: 6000 PSI [415 Bar]**

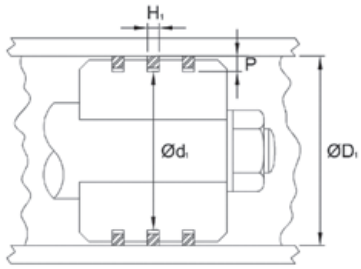
Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions					$
		Tol.	D	d	H	d1	d2	d3	H1	H2	
P025012095PR*	25.00	+0.08 / -0.00	25.00	12.00	9.50	11.89 / 12.00	21.45 / 21.55	24.00 / 24.20	9.90 / 10.10	6.40 / 6.50	11.54
P040028090PR*	40.00	+0.08 / -0.00	40.00	28.00	9.00	27.87 / 28.00	35.35 / 35.45	38.90 / 39.10	9.40 / 9.60	6.40 / 6.50	12.48
P045035085PR*	45.00	+0.08 / -0.00	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	12.86
P050038094PR	50.00	+0.08 / -0.00	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	13.81
P050030140PR*	50.00	+0.08 / -0.00	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	9.96
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	15.51
P058043105PR*	58.00	+0.08 / -0.00	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	15.51
P060040140PR*	60.00	+0.08 / -0.00	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	10.68
P060045105PR*	60.00	+0.08 / -0.00	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	8.23
P065045140PR	65.00	+0.08 / -0.00	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	19.95
P065050100PR*	65.00	+0.08 / -0.00	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	19.95
P065050105PR*	65.00	+0.08 / -0.00	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	24.77
P070050140PR	70.00	+0.08 / -0.00	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	10.79
P080060140PR	80.00	+0.08 / -0.00	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	12.26
P080065110PR*	80.00	+0.08 / -0.00	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	23.17
P085070120PR*	85.00	+0.08 / -0.00	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	25.91
P090070140PR	90.00	+0.08 / -0.00	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	15.05
P095075140PR*	95.00	+0.08 / -0.00	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	30.83
P100080140PR	100.00	+0.08 / -0.00	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	16.28
P104085140PR*	104.50	+0.08 / -0.00	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	33.28
P105085140PR	105.00	+0.08 / -0.00	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	17.61
P110090125PR*	110.00	+0.08 / -0.00	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	10.99
P115095140PR	115.00	+0.08 / -0.00	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	35.36
P120100125PR*	120.00	+0.08 / -0.00	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	35.36
P125100140PR*	125.00	+0.08 / -0.00	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	40.56
P125105120PR	125.00	+0.08 / -0.00	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	40.56
P130110120PR*	130.00	+0.08 / -0.00	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	40.56
P140120120PR*	140.00	+0.08 / -0.00	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	41.57

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

PZ - Piston Rings

Cast Iron





Temperature:

Pressure:

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	36.20
P045039032PZ*	45.00	+0.08 / -0.00				45.00	+0.08 / -0.00	39.00	+0.00 / -0.05	3.20	+0.13 / -0.00	36.20
P050044032PZ*	50.00	+0.08 / -0.00				50.00	+0.08 / -0.00	44.00	+0.00 / -0.05	3.20	+0.13 / -0.00	36.20
P055049048PZ*	55.00	+0.08 / -0.00				55.00	+0.08 / -0.00	49.00	+0.00 / -0.05	4.80	+0.13 / -0.00	36.34
P060053048PZ*	60.00	+0.08 / -0.00				60.00	+0.08 / -0.00	53.00	+0.00 / -0.05	4.80	+0.13 / -0.00	36.34
P063056048PZ*	63.00	+0.08 / -0.00				63.00	+0.08 / -0.00	56.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.09
P065058048PZ	65.00	+0.08 / -0.00				65.00	+0.08 / -0.00	58.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.09
P065058064PZ*	65.00	+0.08 / -0.00				65.00	+0.08 / -0.00	58.00	+0.00 / -0.05	6.40	+0.13 / -0.00	37.36
P070062048PZ*	70.00	+0.08 / -0.00				70.00	+0.08 / -0.00	62.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.09
P075066050PZ*	75.00	+0.08 / -0.00				75.00	+0.08 / -0.00	66.00	+0.00 / -0.05	5.04	+0.13 / -0.00	37.09
P075067048PZ*	75.00	+0.08 / -0.00				75.00	+0.08 / -0.00	67.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.09
P080072048PZ*	80.00	+0.10 / -0.00				80.00	+0.10 / -0.00	72.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.09
P080072064PZ*	80.00	+0.10 / -0.00				80.00	+0.10 / -0.00	72.00	+0.00 / -0.05	6.40	+0.13 / -0.00	37.36
P085077048PZ*	85.00	+0.10 / -0.00				85.00	+0.10 / -0.00	77.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.09
P090080035PZ*	90.00	+0.10 / -0.00				90.00	+0.10 / -0.00	80.00	+0.00 / -0.05	3.54	+0.13 / -0.00	37.29
P090081048PZ*	90.00	+0.10 / -0.00				90.00	+0.10 / -0.00	81.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.29
P090082040PZ	90.00	+0.10 / -0.00				90.00	+0.10 / -0.00	82.50	+0.00 / -0.05	4.00	+0.13 / -0.00	22.17
P095086048PZ*	95.00	+0.10 / -0.00				95.00	+0.10 / -0.00	86.00	+0.00 / -0.05	4.80	+0.13 / -0.00	37.29
P095087040PZ*	95.00	+0.10 / -0.00				95.00	+0.10 / -0.00	87.10	+0.00 / -0.05	4.00	+0.13 / -0.00	26.63
P100090041PZ*	100.00	+0.10 / -0.00				100.00	+0.10 / -0.00	90.00	+0.00 / -0.05	4.15	+0.13 / -0.00	76.99
P100090064PZ*	100.00	+0.10 / -0.00				100.00	+0.10 / -0.00	90.00	+0.00 / -0.05	6.40	+0.13 / -0.00	37.97
P105095064PZ*	105.00	+0.10 / -0.00				105.00	+0.10 / -0.00	95.00	+0.00 / -0.05	6.40	+0.13 / -0.00	38.45
P105096040PZ*	105.00	+0.10 / -0.00				105.00	+0.10 / -0.00	96.20	+0.00 / -0.05	4.00	+0.13 / -0.00	27.17
P110099041PZ*	110.00	+0.10 / -0.00				110.00	+0.10 / -0.00	99.00	+0.00 / -0.05	4.15	+0.13 / -0.00	38.18
P110099064PZ*	110.00	+0.10 / -0.00				110.00	+0.10 / -0.00	99.00	+0.00 / -0.05	6.40	+0.13 / -0.00	38.45
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	38.45
P115104032PZ*	115.00	+0.10 / -0.00				115.00	+0.10 / -0.00	104.00	+0.00 / -0.05	3.20	+0.13 / -0.00	37.57
P115104064PZ*	115.00	+0.10 / -0.00				115.00	+0.10 / -0.00	104.00	+0.00 / -0.05	6.40	+0.13 / -0.00	38.45
P115106040PZ	115.00	+0.10 / -0.00				115.00	+0.10 / -0.00	105.60	+0.00 / -0.05	4.00	+0.13 / -0.00	50.21
P120108035PZ*	120.00	+0.10 / -0.00				120.00	+0.10 / -0.00	108.00	+0.00 / -0.05	3.54	+0.13 / -0.00	38.65
P120109064PZ*	120.00	+0.10 / -0.00				120.00	+0.10 / -0.00	109.00	+0.00 / -0.05	6.40	+0.13 / -0.00	39.54
P120110040PZ*	120.00	+0.10 / -0.00				120.00	+0.10 / -0.00	110.00	+0.00 / -0.05	4.00	+0.13 / -0.00	53.56
P125113064PZ	125.00	+0.10 / -0.00				125.00	+0.10 / -0.00	113.00	+0.00 / -0.05	6.40	+0.13 / -0.00	39.54
P125116040PZ	125.00	+0.10 / -0.00				125.00	+0.10 / -0.00	115.60	+0.00 / -0.05	4.00	+0.13 / -0.00	38.65
P130118064PZ	130.00	+0.10 / -0.00				130.00	+0.10 / -0.00	118.00	+0.00 / -0.05	6.40	+0.13 / -0.00	45.79
P130119040PZ	130.00	+0.10 / -0.00				130.00	+0.10 / -0.00	119.20	+0.00 / -0.05	4.00	+0.13 / -0.00	53.56
P135122064PZ*	135.00	+0.10 / -0.00				135.00	+0.10 / -0.00	122.00	+0.00 / -0.05	6.40	+0.13 / -0.00	80.85
P135124040PZ*	135.00	+0.10 / -0.00				135.00	+0.10 / -0.00	124.00	+0.00 / -0.05	4.00	+0.13 / -0.00	34.88

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

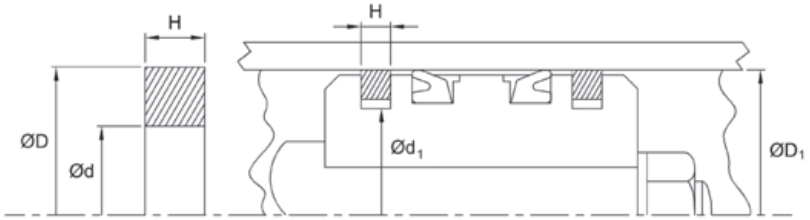
PZ SERIES - CAST IRON

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P140127064PZ*	140.00	+0.10 / -0.00				140.00	+0.10 / -0.00	127.00	+0.00 / -0.05	6.40	+0.13 / -0.00	80.85
P140129040PZ*	140.00	+0.10 / -0.00				140.00	+0.10 / -0.00	128.60	+0.00 / -0.05	4.00	+0.13 / -0.00	41.22
P145132064PZ*	145.00	+0.10 / -0.00				145.00	+0.10 / -0.00	132.00	+0.00 / -0.05	6.40	+0.13 / -0.00	83.03
P150136050PZ*	150.00	+0.10 / -0.00				150.00	+0.10 / -0.00	136.00	+0.00 / -0.05	5.04	+0.13 / -0.00	83.03
P150137064PZ*	150.00	+0.10 / -0.00				150.00	+0.10 / -0.00	137.00	+0.00 / -0.05	6.40	+0.13 / -0.00	83.03
P155141079PZ*	155.00	+0.10 / -0.00				155.00	+0.10 / -0.00	141.00	+0.00 / -0.05	7.95	+0.13 / -0.00	84.73
P160146079PZ	160.00	+0.10 / -0.00				160.00	+0.10 / -0.00	146.00	+0.00 / -0.05	7.95	+0.13 / -0.00	84.73
P160147040PZ	160.00	+0.10 / -0.00				160.00	+0.10 / -0.00	146.90	+0.00 / -0.05	4.00	+0.13 / -0.00	48.19
P165151079PZ*	165.00	+0.10 / -0.00				165.00	+0.10 / -0.00	151.00	+0.00 / -0.05	7.95	+0.13 / -0.00	84.73
P170155079PZ*	170.00	+0.10 / -0.00				170.00	+0.10 / -0.00	155.00	+0.00 / -0.05	7.95	+0.13 / -0.00	86.02
P175160079PZ*	175.00	+0.13 / -0.00				175.00	+0.13 / -0.00	160.00	+0.00 / -0.05	7.95	+0.13 / -0.00	86.02
P180164060PZ*	180.00	+0.13 / -0.00				180.00	+0.13 / -0.00	164.00	+0.00 / -0.05	6.08	+0.13 / -0.00	89.08
P180164079PZ*	180.00	+0.13 / -0.00				180.00	+0.13 / -0.00	164.00	+0.00 / -0.05	7.95	+0.13 / -0.00	94.59
P185169079PZ*	185.00	+0.13 / -0.00				185.00	+0.13 / -0.00	169.00	+0.00 / -0.05	7.95	+0.13 / -0.00	94.59
P185170040PZ*	185.00	+0.13 / -0.00				185.00	+0.13 / -0.00	169.90	+0.00 / -0.05	4.00	+0.13 / -0.00	58.33
P190174079PZ*	190.00	+0.13 / -0.00				190.00	+0.13 / -0.00	174.00	+0.00 / -0.05	7.95	+0.13 / -0.00	94.59
P195178079PZ*	195.00	+0.13 / -0.00				195.00	+0.13 / -0.00	178.00	+0.00 / -0.05	7.95	+0.13 / -0.00	95.96
P200183079PZ	200.00	+0.13 / -0.00				200.00	+0.13 / -0.00	183.00	+0.00 / -0.05	7.95	+0.13 / -0.00	95.96
P200183095PZ*	200.00	+0.13 / -0.00				200.00	+0.13 / -0.00	183.00	+0.00 / -0.05	9.55	+0.13 / -0.00	97.93
P210192096PZ*	210.00	+0.13 / -0.00				210.00	+0.13 / -0.00	192.00	+0.00 / -0.05	9.60	+0.13 / -0.00	99.02
P220202096PZ*	220.00	+0.13 / -0.00				220.00	+0.13 / -0.00	202.00	+0.00 / -0.05	9.60	+0.13 / -0.00	107.25
P230211096PZ*	230.00	+0.13 / -0.00				230.00	+0.13 / -0.00	211.00	+0.00 / -0.05	9.60	+0.13 / -0.00	109.84
P240221096PZ*	240.00	+0.13 / -0.00				240.00	+0.13 / -0.00	221.00	+0.00 / -0.05	9.60	+0.13 / -0.00	148.86
P250230096PZ	250.00	+0.13 / -0.00				250.00	+0.13 / -0.00	230.00	+0.00 / -0.05	9.60	+0.13 / -0.00	148.86
P250231049PZ	250.00	+0.13 / -0.00				250.00	+0.13 / -0.00	231.00	+0.00 / -0.05	5.00	+0.13 / -0.00	136.29
P260240096PZ*	260.00	+0.13 / -0.00				260.00	+0.13 / -0.00	240.00	+0.00 / -0.05	9.60	+0.13 / -0.00	148.86
P270249096PZ*	270.00	+0.13 / -0.00				270.00	+0.13 / -0.00	249.00	+0.00 / -0.05	9.60	+0.13 / -0.00	179.70
P280258096PZ*	280.00	+0.15 / -0.00				280.00	+0.15 / -0.00	258.00	+0.00 / -0.05	9.60	+0.13 / -0.00	179.70
P300277096PZ*	300.00	+0.15 / -0.00				300.00	+0.15 / -0.00	277.00	+0.00 / -0.05	9.60	+0.13 / -0.00	199.02
P320296123PZ*	320.00	+0.15 / -0.00				320.00	+0.15 / -0.00	296.00	+0.00 / -0.05	12.30	+0.13 / -0.00	211.97
P350324123PZ*	350.00	+0.15 / -0.00				350.00	+0.15 / -0.00	324.00	+0.00 / -0.05	12.30	+0.13 / -0.00	292.59
P360333128PZ*	360.00	+0.15 / -0.00				360.00	+0.15 / -0.00	333.00	+0.00 / -0.05	12.80	+0.13 / -0.00	292.59
P400372128PZ*	400.00	+0.15 / -0.00				400.00	+0.15 / -0.00	372.00	+0.00 / -0.05	12.80	+0.13 / -0.00	486.40

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

PZ/B - Piston Rings

Bronze - 660

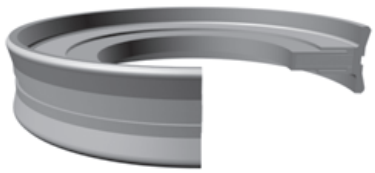


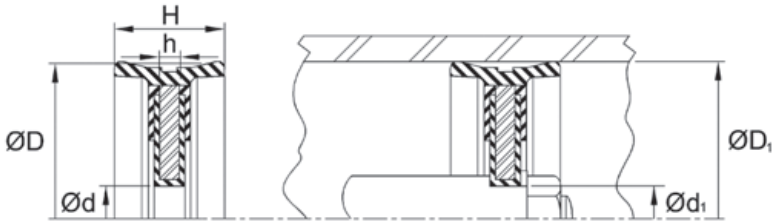
Temperature: **Pressure:**

Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P125113060PZ/B	125.00	+0.10 / -0.00	125.00	113.00	6.00	125.00	+0.10 / -0.00	112.00	+0.00 / -0.50	6.00	+0.50 / -0.00	48.04
P130118060PZ/B	130.00	+0.10 / -0.00	130.00	118.00	6.00	130.00	+0.10 / -0.00	117.00	+0.00 / -0.50	6.00	+0.50 / -0.00	54.48
P140128060PZ/B*	140.00	+0.10 / -0.00	140.00	128.00	6.00	140.00	+0.10 / -0.00	127.00	+0.00 / -0.50	6.00	+0.50 / -0.00	59.36
P150138060PZ/B*	150.00	+0.10 / -0.00	150.00	138.00	6.00	150.00	+0.10 / -0.00	137.00	+0.00 / -0.50	6.00	+0.50 / -0.00	73.59
P160148060PZ/B*	160.00	+0.10 / -0.00	160.00	148.00	6.00	160.00	+0.10 / -0.00	147.00	+0.00 / -0.50	6.00	+0.50 / -0.00	85.47
P170158060PZ/B	170.00	+0.10 / -0.00	170.00	158.00	6.00	170.00	+0.10 / -0.00	157.00	+0.00 / -0.50	6.00	+0.50 / -0.00	92.76
P180168060PZ/B	180.00	+0.13 / -0.00	180.00	168.00	6.00	180.00	+0.13 / -0.00	167.00	+0.00 / -0.50	6.00	+0.50 / -0.00	96.79
P190178060PZ/B*	190.00	+0.13 / -0.00	190.00	178.00	6.00	190.00	+0.13 / -0.00	177.00	+0.00 / -0.50	6.00	+0.50 / -0.00	99.13
P250238060PZ/B*	250.00	+0.13 / -0.00	250.00	238.00	6.00	250.00	+0.13 / -0.00	237.00	+0.00 / -0.50	6.00	+0.50 / -0.00	101.48
P280258096PZ/B*	280.00	+0.13 / -0.00	280.00	258.00	9.60	280.00	+0.13 / -0.00	257.00	+0.00 / -0.50	9.60	+0.50 / -0.00	163.90
P280268120PZ/B*	280.00	+0.13 / -0.00	280.00	268.00	12.00	280.00	+0.13 / -0.00	267.00	+0.00 / -0.50	12.00	+0.50 / -0.00	187.22

P1B - Piston Seals

Nitrile/Steel





Temperature: -40/250F [-40/121C] **Pressure: 235 PSI [16 Bar]**

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	10.98
P016005120P1B*	16.00	+0.08 / -0.00	16.00	5.00	3.00	12.00	16.00	+0.08 / -0.00	5.00	+0.05 / -0.00	10.98
P020005120P1B*	20.00	+0.08 / -0.00	20.00	5.00	3.00	12.00	20.00	+0.08 / -0.00	5.00	+0.05 / -0.00	10.98
P020006120P1B*	20.00	+0.08 / -0.00	20.00	6.00	3.00	12.00	20.00	+0.08 / -0.00	6.00	+0.05 / -0.00	10.97
P025006120P1B*	25.00	+0.08 / -0.00	25.00	6.00	3.00	12.00	25.00	+0.08 / -0.00	6.00	+0.05 / -0.00	12.37
P025008120P1B*	25.00	+0.08 / -0.00	25.00	8.00	3.00	12.00	25.00	+0.08 / -0.00	8.00	+0.06 / -0.00	13.14
P032005180P1B*	32.00	+0.08 / -0.00	32.00	5.00	3.00	18.00	32.00	+0.08 / -0.00	5.00	+0.05 / -0.00	21.70
P032006150P1B*	32.00	+0.08 / -0.00	32.00	6.00	3.00	15.00	32.00	+0.08 / -0.00	6.00	+0.05 / -0.00	19.23
P032008150P1B*	32.00	+0.08 / -0.00	32.00	8.00	3.00	15.00	32.00	+0.08 / -0.00	8.00	+0.06 / -0.00	13.94

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

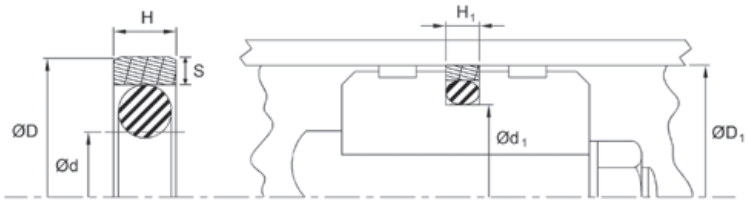
P1B SERIES - NBR/STEEL

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	d	h	H	D1	Tol.	d1	Tol.	
P035008150P1B*	35.00	+0.08 / -0.00	35.00	8.00	3.00	15.00	35.00	+0.08 / -0.00	8.00	+0.06 / -0.00	20.87
P040008180P1B*	40.00	+0.08 / -0.00	40.00	8.00	4.00	18.00	40.00	+0.08 / -0.00	8.00	+0.06 / -0.00	49.08
P040008200P1B*	40.00	+0.08 / -0.00	40.00	8.00	4.00	20.00	40.00	+0.08 / -0.00	8.00	+0.06 / -0.00	21.09
P040010180P1B	40.00	+0.08 / -0.00	40.00	10.00	4.00	18.00	40.00	+0.08 / -0.00	10.00	+0.06 / -0.00	19.32
P050008200P1B*	50.00	+0.08 / -0.00	50.00	8.00	4.00	20.00	50.00	+0.08 / -0.00	8.00	+0.06 / -0.00	23.26
P050010180P1B	50.00	+0.08 / -0.00	50.00	10.00	4.00	18.00	50.00	+0.08 / -0.00	10.00	+0.06 / -0.00	24.21
P050010250P1B*	50.00	+0.08 / -0.00	50.00	10.20	4.00	25.00	50.00	+0.08 / -0.00	10.20	+0.06 / -0.00	41.78
P050016205P1B	50.00	+0.08 / -0.00	50.00	16.00	4.00	20.50	50.00	+0.08 / -0.00	16.00	+0.07 / -0.00	24.91
P060012220P1B*	60.00	+0.08 / -0.00	60.00	12.00	4.00	22.00	60.00	+0.08 / -0.00	12.00	+0.07 / -0.00	37.73
P060018210P1B*	60.00	+0.08 / -0.00	60.00	18.00	4.00	21.00	60.00	+0.08 / -0.00	18.00	+0.07 / -0.00	38.08
P063012220P1B	63.00	+0.08 / -0.00	63.00	12.00	5.00	22.00	63.00	+0.08 / -0.00	12.00	+0.07 / -0.00	38.37
P063016215P1B	63.00	+0.08 / -0.00	63.00	16.00	4.00	21.50	63.00	+0.08 / -0.00	16.00	+0.07 / -0.00	38.67
P070012220P1B*	70.00	+0.08 / -0.00	70.00	12.00	5.00	22.00	70.00	+0.08 / -0.00	12.00	+0.07 / -0.00	48.65
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	54.77
P075015220P1B*	75.00	+0.08 / -0.00	75.00	15.00	5.00	22.00	75.00	+0.08 / -0.00	15.00	+0.07 / -0.00	27.85
P080012225P1B*	80.00	+0.10 / -0.00	80.00	12.00	5.00	22.50	80.00	+0.10 / -0.00	12.00	+0.07 / -0.00	48.40
P080016225P1B	80.00	+0.10 / -0.00	80.00	16.00	5.00	22.50	80.00	+0.10 / -0.00	16.00	+0.07 / -0.00	45.46
P080020225P1B*	80.00	+0.10 / -0.00	80.00	20.00	5.00	22.50	80.00	+0.10 / -0.00	20.00	+0.08 / -0.00	45.46
P090016250P1B*	90.00	+0.10 / -0.00	90.00	16.00	5.00	25.00	90.00	+0.10 / -0.00	16.00	+0.08 / -0.00	36.72
P100016250P1B	100.00	+0.10 / -0.00	100.00	16.00	6.50	25.00	100.00	+0.10 / -0.00	16.00	+0.07 / -0.00	70.33
P100020260P1B	100.00	+0.10 / -0.00	100.00	20.00	6.00	26.00	100.00	+0.10 / -0.00	20.00	+0.08 / -0.00	71.15
P110018250P1B*	110.00	+0.10 / -0.00	110.00	18.00	6.00	25.00	110.00	+0.10 / -0.00	18.00	+0.08 / -0.00	65.99
P125020260P1B	125.00	+0.10 / -0.00	125.00	20.00	5.00	26.00	125.00	+0.10 / -0.00	20.00	+0.08 / -0.00	93.24
P125020280P1B	125.00	+0.10 / -0.00	125.00	20.00	7.00	28.00	125.00	+0.10 / -0.00	20.00	+0.08 / -0.00	116.73
P130020290P1B*	130.00	+0.10 / -0.00	130.00	20.00	8.00	29.00	130.00	+0.10 / -0.00	20.00	+0.08 / -0.00	225.82
P140022290P1B*	140.00	+0.10 / -0.00	140.00	22.00	6.00	29.00	140.00	+0.10 / -0.00	22.00	+0.08 / -0.00	215.41
P150020290P1B*	150.00	+0.10 / -0.00	150.00	20.00	10.00	29.00	150.00	+0.10 / -0.00	20.00	+0.08 / -0.00	244.40
P160027290P1B*	160.00	+0.10 / -0.00	160.00	27.00	6.00	29.00	160.00	+0.10 / -0.00	27.00	+0.08 / -0.00	188.35
P160030290P1B*	160.00	+0.10 / -0.00	160.00	30.00	6.00	29.00	160.00	+0.10 / -0.00	30.00	+0.08 / -0.00	562.01
P180027310P1B*	180.00	+0.10 / -0.00	180.00	27.00	10.00	31.00	180.00	+0.10 / -0.00	27.00	+0.08 / -0.00	188.57
P190020300P1B*	190.00	+0.10 / -0.00	190.00	20.00	10.00	30.00	190.00	+0.10 / -0.00	20.00	+0.08 / -0.00	205.24
P200027350P1B*	200.00	+0.13 / -0.00	200.00	27.00	10.00	35.00	200.00	+0.13 / -0.00	27.00	+0.08 / -0.00	310.82
P200030350P1B*	200.00	+0.13 / -0.00	200.00	30.00	10.00	35.00	200.00	+0.13 / -0.00	30.00	+0.08 / -0.00	340.41
P250030350P1B*	250.00	+0.13 / -0.00	250.00	30.00	12.00	35.00	200.00	+0.13 / -0.00	30.00	+0.08 / -0.00	340.96
P320036400P1B*	320.00	+0.13 / -0.00	320.00	36.00	15.00	40.00	320.00	+0.13 / -0.00	36.00	+0.08 / -0.00	703.01
P400040500P1B*	400.00	+0.13 / -0.00	400.00	40.00	20.00	50.00	400.00	+0.13 / -0.00	40.00	+0.08 / -0.00	1040.05

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

P2B - Piston Seals

BR.PTFE/Nitrile



Temperature: -50/250F [-45/121C] **Pressure: 5000 PSI [345 Bar]**

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					3.10	+0.00 / -0.02	2.20	+0.20 / -0.00	10.09
P010005022P2B	10.00	+0.08 / -0.00					5.10	+0.00 / -0.02	2.20	+0.20 / -0.00	10.09
P012007022P2B	12.00	+0.08 / -0.00					7.10	+0.00 / -0.03	2.20	+0.20 / -0.00	7.63
P014009022P2B*	14.00	+0.08 / -0.00					9.10	+0.00 / -0.03	2.20	+0.20 / -0.00	10.09
P015007032P2B*	15.00	+0.08 / -0.00					7.50	+0.00 / -0.03	3.20	+0.20 / -0.00	8.88
P015010022P2B	15.00	+0.08 / -0.00					10.10	+0.00 / -0.04	2.20	+0.20 / -0.00	10.09
P016008032P2B*	16.00	+0.08 / -0.00					8.50	+0.00 / -0.03	3.20	+0.20 / -0.00	10.09
P016011022P2B	16.00	+0.08 / -0.00					11.10	+0.00 / -0.04	2.20	+0.20 / -0.00	10.09
P017009032P2B*	17.00	+0.08 / -0.00					9.50	+0.00 / -0.03	3.20	+0.20 / -0.00	10.09
P018010032P2B*	18.00	+0.08 / -0.00					10.50	+0.00 / -0.04	3.20	+0.20 / -0.00	10.09
P018013022P2B*	18.00	+0.08 / -0.00					13.10	+0.00 / -0.04	2.20	+0.20 / -0.00	10.09
P020012032P2B	20.00	+0.08 / -0.00					12.50	+0.00 / -0.04	3.20	+0.20 / -0.00	10.09
P020015022P2B	20.00	+0.08 / -0.00					15.10	+0.00 / -0.04	2.20	+0.20 / -0.00	10.09
P022014032P2B	22.00	+0.08 / -0.00					14.50	+0.00 / -0.04	3.20	+0.20 / -0.00	10.09
P022017022P2B	22.00	+0.08 / -0.00					17.10	+0.00 / -0.04	2.20	+0.20 / -0.00	10.09
P024016032P2B*	24.00	+0.08 / -0.00					16.50	+0.00 / -0.04	3.20	+0.20 / -0.00	10.09
P024019022P2B	24.00	+0.08 / -0.00					19.10	+0.00 / -0.05	2.20	+0.20 / -0.00	10.09
P025014042P2B*	25.00	+0.08 / -0.00					14.00	+0.00 / -0.04	4.20	+0.20 / -0.00	10.09
P025017032P2B	25.00	+0.08 / -0.00					17.50	+0.00 / -0.04	3.20	+0.20 / -0.00	10.09
P025020022P2B*	25.00	+0.08 / -0.00					20.10	+0.00 / -0.05	2.20	+0.20 / -0.00	11.70
P026018032P2B*	26.00	+0.08 / -0.00					18.50	+0.00 / -0.05	3.20	+0.20 / -0.00	11.70
P026021022P2B*	26.00	+0.08 / -0.00					21.10	+0.00 / -0.05	2.20	+0.20 / -0.00	11.70
P027022022P2B*	27.00	+0.08 / -0.00					22.50	+0.00 / -0.05	2.20	+0.20 / -0.00	11.71
P028020032P2B	28.00	+0.08 / -0.00					20.50	+0.00 / -0.05	3.20	+0.20 / -0.00	11.70
P028023022P2B*	28.00	+0.08 / -0.00					23.10	+0.00 / -0.05	2.20	+0.20 / -0.00	11.70
P030020045P2B	30.00	+0.08 / -0.00					20.50	+0.00 / -0.05	4.50	+0.20 / -0.00	11.70
P030021036P2B*	30.00	+0.08 / -0.00					21.00	+0.00 / -0.05	3.60	+0.20 / -0.00	11.70
P030022032P2B*	30.00	+0.08 / -0.00					22.50	+0.00 / -0.05	3.20	+0.20 / -0.00	11.70
P030025022P2B*	30.00	+0.08 / -0.00					25.10	+0.00 / -0.05	2.20	+0.20 / -0.00	12.93
P032022045P2B*	32.00	+0.08 / -0.00					22.50	+0.00 / -0.05	4.50	+0.20 / -0.00	11.70
P032023036P2B*	32.00	+0.08 / -0.00					23.00	+0.00 / -0.05	3.60	+0.20 / -0.00	11.70
P032024032P2B	32.00	+0.08 / -0.00					24.50	+0.00 / -0.05	3.20	+0.20 / -0.00	11.70
P032027022P2B*	32.00	+0.08 / -0.00					27.10	+0.00 / -0.05	2.20	+0.20 / -0.00	16.25
P035025045P2B	35.00	+0.08 / -0.00					25.50	+0.00 / -0.05	4.50	+0.20 / -0.00	16.25
P035026036P2B*	35.00	+0.08 / -0.00					26.00	+0.00 / -0.05	3.60	+0.20 / -0.00	16.25
P035027032P2B	35.00	+0.08 / -0.00					27.50	+0.00 / -0.05	3.20	+0.20 / -0.00	11.70
P035030022P2B	35.00	+0.08 / -0.00					30.10	+0.00 / -0.06	2.20	+0.20 / -0.00	16.25
P036025042P2B*	36.00	+0.08 / -0.00					25.00	+0.00 / -0.05	4.20	+0.20 / -0.00	16.25

*** : 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.	
P036027032P2B*	36.00	+0.08 / -0.00					27.50	+0.00 / -0.05	3.20	+0.20 / -0.00	16.25
P036028032P2B*	36.00	+0.08 / -0.00					28.50	+0.00 / -0.05	3.20	+0.20 / -0.00	14.17
P036031022P2B*	36.00	+0.08 / -0.00					31.10	+0.00 / -0.06	2.20	+0.20 / -0.00	16.25
P038030032P2B	38.00	+0.08 / -0.00					30.50	+0.00 / -0.06	3.20	+0.20 / -0.00	16.25
P040026057P2B	40.00	+0.08 / -0.00					26.30	+0.00 / -0.05	5.70	+0.20 / -0.00	16.25
P040029042P2B	40.00	+0.08 / -0.00					29.00	+0.00 / -0.05	4.20	+0.20 / -0.00	14.17
P040030045P2B	40.00	+0.08 / -0.00					30.00	+0.00 / -0.05	4.50	+0.20 / -0.00	16.25
P040032032P2B	40.00	+0.08 / -0.00					32.50	+0.00 / -0.06	3.20	+0.20 / -0.00	14.17
P042031042P2B	42.00	+0.08 / -0.00					31.00	+0.00 / -0.06	4.20	+0.20 / -0.00	16.25
P042031057P2B*	42.00	+0.08 / -0.00					31.30	+0.00 / -0.06	5.70	+0.20 / -0.00	16.25
P042034032P2B*	42.00	+0.08 / -0.00					34.50	+0.00 / -0.06	3.20	+0.20 / -0.00	16.25
P045034042P2B	45.00	+0.08 / -0.00					34.00	+0.00 / -0.06	4.20	+0.20 / -0.00	14.17
P045035045P2B	45.00	+0.08 / -0.00					35.00	+0.00 / -0.06	4.50	+0.20 / -0.00	14.16
P045037032P2B	45.00	+0.08 / -0.00					37.50	+0.00 / -0.06	3.20	+0.20 / -0.00	16.25
P048037042P2B	48.00	+0.08 / -0.00					37.00	+0.00 / -0.06	4.20	+0.20 / -0.00	22.42
P048040032P2B*	48.00	+0.08 / -0.00					40.50	+0.00 / -0.06	3.20	+0.20 / -0.00	22.42
P050034063P2B	50.00	+0.08 / -0.00					34.50	+0.00 / -0.06	6.30	+0.20 / -0.00	24.46
P050036057P2B	50.00	+0.08 / -0.00					36.30	+0.00 / -0.06	5.70	+0.20 / -0.00	22.42
P050039042P2B	50.00	+0.08 / -0.00					39.00	+0.00 / -0.06	4.20	+0.20 / -0.00	14.17
P050040045P2B	50.00	+0.08 / -0.00					40.00	+0.00 / -0.06	4.50	+0.20 / -0.00	22.64
P050042032P2B	50.00	+0.08 / -0.00					42.50	+0.00 / -0.06	3.20	+0.20 / -0.00	22.42
P055039063P2B	55.00	+0.08 / -0.00					39.50	+0.00 / -0.06	6.30	+0.20 / -0.00	26.67
P055041057P2B	55.00	+0.08 / -0.00					41.30	+0.00 / -0.06	5.70	+0.20 / -0.00	24.25
P055044042P2B	55.00	+0.08 / -0.00					44.00	+0.00 / -0.06	4.20	+0.20 / -0.00	24.25
P055045045P2B	55.00	+0.08 / -0.00					45.00	+0.00 / -0.06	4.50	+0.20 / -0.00	22.64
P055047032P2B	55.00	+0.08 / -0.00					47.50	+0.00 / -0.06	3.20	+0.20 / -0.00	22.64
P056045042P2B*	56.00	+0.08 / -0.00					45.00	+0.00 / -0.06	4.20	+0.20 / -0.00	25.86
P056046045P2B	56.00	+0.08 / -0.00					46.00	+0.00 / -0.06	4.50	+0.20 / -0.00	22.64
P056048032P2B*	56.00	+0.08 / -0.00					48.50	+0.00 / -0.06	3.20	+0.20 / -0.00	22.64
P057049032P2B	57.00	+0.08 / -0.00					49.50	+0.00 / -0.06	3.20	+0.20 / -0.00	22.64
P060044063P2B	60.00	+0.08 / -0.00					44.50	+0.00 / -0.06	6.30	+0.20 / -0.00	26.75
P060049042P2B	60.00	+0.08 / -0.00					49.00	+0.00 / -0.06	4.20	+0.20 / -0.00	14.17
P060049051P2B*	60.00	+0.08 / -0.00					49.50	+0.00 / -0.06	5.10	+0.20 / -0.00	19.33
P060050045P2B	60.00	+0.08 / -0.00					50.00	+0.00 / -0.06	4.50	+0.20 / -0.00	22.64
P060052032P2B	60.00	+0.08 / -0.00					52.50	+0.00 / -0.07	3.20	+0.20 / -0.00	22.64
P063047063P2B	63.00	+0.08 / -0.00					47.50	+0.00 / -0.06	6.30	+0.20 / -0.00	26.75
P063048075P2B	63.00	+0.08 / -0.00					48.00	+0.00 / -0.06	7.50	+0.20 / -0.00	27.01
P063052042P2B	63.00	+0.08 / -0.00					52.00	+0.00 / -0.07	4.20	+0.20 / -0.00	14.17
P063055032P2B	63.00	+0.08 / -0.00					55.50	+0.00 / -0.07	3.20	+0.20 / -0.00	22.64
P065049063P2B	65.00	+0.08 / -0.00					49.50	+0.00 / -0.07	6.30	+0.20 / -0.00	27.29
P065050075P2B	65.00	+0.08 / -0.00					50.00	+0.00 / -0.06	7.50	+0.20 / -0.00	16.98
P065054042P2B	65.00	+0.08 / -0.00					54.00	+0.00 / -0.07	4.20	+0.20 / -0.00	36.92
P065057032P2B	65.00	+0.08 / -0.00					57.50	+0.00 / -0.07	3.20	+0.20 / -0.00	22.64
P069054075P2B*	69.00	+0.08 / -0.00					54.00	+0.00 / -0.07	7.50	+0.20 / -0.00	22.64
P070054063P2B	70.00	+0.08 / -0.00					54.50	+0.00 / -0.07	6.30	+0.20 / -0.00	28.51
P070055075P2B	70.00	+0.08 / -0.00					55.00	+0.00 / -0.07	7.50	+0.20 / -0.00	22.64
P070059042P2B	70.00	+0.08 / -0.00					59.00	+0.00 / -0.07	4.20	+0.20 / -0.00	14.76
P070062032P2B	70.00	+0.08 / -0.00					62.50	+0.00 / -0.07	3.20	+0.20 / -0.00	22.64

*** : 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.	
P071056075P2B	71.00	+0.08 / -0.00					56.00	+0.00 / -0.07	7.50	+0.20 / -0.00	21.83
P075054081P2B	75.00	+0.08 / -0.00					54.00	+0.00 / -0.07	8.10	+0.20 / -0.00	22.64
P075059063P2B	75.00	+0.08 / -0.00					59.00	+0.00 / -0.07	6.30	+0.20 / -0.00	22.47
P075060075P2B	75.00	+0.08 / -0.00					60.00	+0.00 / -0.07	7.50	+0.20 / -0.00	18.22
P075064042P2B	75.00	+0.08 / -0.00					64.00	+0.00 / -0.07	4.20	+0.20 / -0.00	15.38
P075067032P2B*	75.00	+0.08 / -0.00					67.50	+0.00 / -0.07	3.20	+0.20 / -0.00	22.64
P080059081P2B	80.00	+0.10 / -0.00					59.00	+0.00 / -0.07	8.10	+0.20 / -0.00	34.40
P080064063P2B	80.00	+0.10 / -0.00					64.50	+0.00 / -0.07	6.30	+0.20 / -0.00	29.05
P080065075P2B	80.00	+0.10 / -0.00					65.00	+0.00 / -0.07	7.50	+0.20 / -0.00	36.09
P080065081P2B	80.00	+0.10 / -0.00					65.00	+0.00 / -0.07	8.10	+0.20 / -0.00	36.09
P080066072P2B	80.00	+0.10 / -0.00					65.80	+0.00 / -0.07	7.20	+0.20 / -0.00	22.47
P080068051P2B	80.00	+0.10 / -0.00					68.60	+0.00 / -0.07	5.10	+0.20 / -0.00	33.15
P080069042P2B	80.00	+0.10 / -0.00					69.00	+0.00 / -0.07	4.20	+0.20 / -0.00	24.00
P085064081P2B	85.00	+0.10 / -0.00					64.00	+0.00 / -0.07	8.10	+0.20 / -0.00	35.14
P085069063P2B	85.00	+0.10 / -0.00					69.50	+0.00 / -0.07	6.30	+0.20 / -0.00	29.88
P085070075P2B	85.00	+0.10 / -0.00					70.00	+0.00 / -0.07	7.50	+0.20 / -0.00	26.74
P085074042P2B	85.00	+0.10 / -0.00					74.00	+0.00 / -0.07	4.20	+0.20 / -0.00	26.74
P090069081P2B	90.00	+0.10 / -0.00					69.00	+0.00 / -0.07	8.10	+0.20 / -0.00	38.98
P090074063P2B	90.00	+0.10 / -0.00					74.50	+0.00 / -0.07	6.30	+0.20 / -0.00	31.56
P090075075P2B	90.00	+0.10 / -0.00					75.00	+0.00 / -0.07	7.50	+0.20 / -0.00	39.48
P090079042P2B	90.00	+0.10 / -0.00					79.00	+0.00 / -0.07	4.20	+0.20 / -0.00	27.64
P090079063P2B	90.00	+0.10 / -0.00					79.00	+0.00 / -0.07	6.30	+0.20 / -0.00	23.53
P095074081P2B	95.00	+0.10 / -0.00					74.00	+0.00 / -0.07	8.10	+0.20 / -0.00	40.66
P095079063P2B	95.00	+0.10 / -0.00					79.50	+0.00 / -0.07	6.30	+0.20 / -0.00	35.14
P095080075P2B	95.00	+0.10 / -0.00					80.00	+0.00 / -0.07	7.50	+0.20 / -0.00	39.84
P095084042P2B	95.00	+0.10 / -0.00					84.00	+0.00 / -0.08	4.20	+0.20 / -0.00	29.08
P100079081P2B	100.00	+0.10 / -0.00					79.00	+0.00 / -0.07	8.10	+0.20 / -0.00	40.31
P100084063P2B	100.00	+0.10 / -0.00					84.50	+0.00 / -0.08	6.30	+0.20 / -0.00	29.46
P100085075P2B	100.00	+0.10 / -0.00					85.00	+0.00 / -0.08	7.50	+0.20 / -0.00	23.09
P100085081P2B	100.00	+0.10 / -0.00					85.00	+0.00 / -0.08	8.10	+0.20 / -0.00	43.59
P100086061P2B	100.00	+0.10 / -0.00					85.80	+0.00 / -0.08	6.10	+0.20 / -0.00	35.21
P100089042P2B	100.00	+0.10 / -0.00					89.00	+0.00 / -0.08	4.20	+0.20 / -0.00	30.86
P105084081P2B	105.00	+0.10 / -0.00					84.00	+0.00 / -0.08	8.10	+0.20 / -0.00	39.65
P105089063P2B	105.00	+0.10 / -0.00					89.50	+0.00 / -0.08	6.30	+0.20 / -0.00	32.68
P108092075P2B*	108.00	+0.10 / -0.00					92.00	+0.00 / -0.08	7.50	+0.20 / -0.00	30.86
P110089081P2B	110.00	+0.10 / -0.00					89.00	+0.00 / -0.08	8.10	+0.20 / -0.00	43.29
P110094063P2B	110.00	+0.10 / -0.00					94.50	+0.00 / -0.08	6.30	+0.20 / -0.00	32.87
P110094075P2B	110.00	+0.10 / -0.00					94.00	+0.00 / -0.08	7.50	+0.20 / -0.00	32.19
P112096075P2B*	112.00	+0.10 / -0.00					96.00	+0.00 / -0.08	7.50	+0.20 / -0.00	32.19
P115094081P2B	115.00	+0.10 / -0.00					94.00	+0.00 / -0.08	8.10	+0.20 / -0.00	44.32
P115099063P2B	115.00	+0.10 / -0.00					99.50	+0.00 / -0.08	6.30	+0.20 / -0.00	34.80
P115101072P2B	115.00	+0.10 / -0.00					101.00	+0.00 / -0.08	7.20	+0.20 / -0.00	21.41
P120099081P2B	120.00	+0.10 / -0.00					99.00	+0.00 / -0.08	8.10	+0.20 / -0.00	44.32
P120104063P2B	120.00	+0.10 / -0.00					104.50	+0.00 / -0.08	6.30	+0.20 / -0.00	35.56
P120104075P2B	120.00	+0.10 / -0.00					104.00	+0.00 / -0.08	7.50	+0.20 / -0.00	33.71
P125094081P2B	125.00	+0.10 / -0.00					94.00	+0.00 / -0.08	8.10	+0.20 / -0.00	46.64
P125101081P2B	125.00	+0.10 / -0.00					101.50	+0.00 / -0.08	8.10	+0.20 / -0.00	49.67
P125104081P2B	125.00	+0.10 / -0.00					104.00	+0.00 / -0.08	8.10	+0.20 / -0.00	44.32

*** : 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.	
P125109063P2B	125.00	+0.10 / -0.00					109.50	+0.00 / -0.08	6.30	+0.20 / -0.00	36.69
P125109075P2B	125.00	+0.10 / -0.00					109.00	+0.00 / -0.08	7.50	+0.20 / -0.00	49.67
P130109081P2B	130.00	+0.10 / -0.00					109.00	+0.00 / -0.08	8.10	+0.20 / -0.00	45.86
P130114063P2B	130.00	+0.10 / -0.00					114.50	+0.00 / -0.08	6.30	+0.20 / -0.00	39.21
P130114075P2B	130.00	+0.10 / -0.00					114.00	+0.00 / -0.08	7.50	+0.20 / -0.00	38.67
P135114081P2B	135.00	+0.10 / -0.00					114.00	+0.00 / -0.08	8.10	+0.20 / -0.00	51.79
P135119063P2B*	135.00	+0.10 / -0.00					119.50	+0.00 / -0.08	6.30	+0.20 / -0.00	42.05
P140119081P2B	140.00	+0.10 / -0.00					119.00	+0.00 / -0.08	8.10	+0.20 / -0.00	52.36
P140124063P2B	140.00	+0.10 / -0.00					124.50	+0.00 / -0.10	6.30	+0.20 / -0.00	45.37
P140124075P2B	140.00	+0.10 / -0.00					124.00	+0.00 / -0.10	7.50	+0.20 / -0.00	64.81
P145124081P2B	145.00	+0.10 / -0.00					124.00	+0.00 / -0.10	8.10	+0.20 / -0.00	53.78
P145129063P2B*	145.00	+0.10 / -0.00					129.50	+0.00 / -0.10	6.30	+0.20 / -0.00	47.10
P150129081P2B	150.00	+0.10 / -0.00					129.00	+0.00 / -0.10	8.10	+0.20 / -0.00	56.30
P150134063P2B	150.00	+0.10 / -0.00					134.50	+0.00 / -0.10	6.30	+0.20 / -0.00	49.48
P150134075P2B	150.00	+0.10 / -0.00					134.00	+0.00 / -0.10	7.50	+0.20 / -0.00	70.68
P155134081P2B	155.00	+0.10 / -0.00					134.00	+0.00 / -0.10	8.10	+0.20 / -0.00	57.59
P155139063P2B*	155.00	+0.10 / -0.00					139.50	+0.00 / -0.10	6.30	+0.20 / -0.00	50.52
P160139081P2B	160.00	+0.10 / -0.00					139.00	+0.00 / -0.10	8.10	+0.20 / -0.00	61.46
P160144063P2B	160.00	+0.10 / -0.00					144.50	+0.00 / -0.10	6.30	+0.20 / -0.00	53.99
P160144075P2B	160.00	+0.10 / -0.00					144.00	+0.00 / -0.10	7.50	+0.20 / -0.00	78.04
P165144081P2B	165.00	+0.10 / -0.00					144.00	+0.00 / -0.10	8.10	+0.20 / -0.00	67.92
P165149063P2B*	165.00	+0.10 / -0.00					149.50	+0.00 / -0.10	6.30	+0.20 / -0.00	55.52
P170148110P2B*	170.00	+0.10 / -0.00					148.00	+0.00 / -0.10	11.00	+0.20 / -0.00	55.52
P170149081P2B	170.00	+0.10 / -0.00					149.00	+0.00 / -0.10	8.10	+0.20 / -0.00	69.85
P170154063P2B*	170.00	+0.10 / -0.00					154.50	+0.00 / -0.10	6.30	+0.20 / -0.00	55.52
P175154081P2B	175.00	+0.13 / -0.00					154.00	+0.00 / -0.10	8.10	+0.20 / -0.00	77.63
P175159063P2B*	175.00	+0.13 / -0.00					159.50	+0.00 / -0.10	6.30	+0.20 / -0.00	57.11
P180158110P2B	180.00	+0.13 / -0.00					158.00	+0.00 / -0.10	11.00	+0.20 / -0.00	116.68
P180159081P2B	180.00	+0.13 / -0.00					159.00	+0.00 / -0.10	8.10	+0.20 / -0.00	76.32
P180164063P2B	180.00	+0.13 / -0.00					164.50	+0.00 / -0.10	6.30	+0.20 / -0.00	57.40
P185164081P2B	185.00	+0.13 / -0.00					164.00	+0.00 / -0.10	8.10	+0.20 / -0.00	57.40
P185169063P2B*	185.00	+0.13 / -0.00					169.50	+0.00 / -0.10	6.30	+0.20 / -0.00	57.40
P190168110P2B*	190.00	+0.13 / -0.00					168.00	+0.00 / -0.10	11.00	+0.20 / -0.00	59.03
P190169081P2B	190.00	+0.13 / -0.00					169.00	+0.00 / -0.10	8.10	+0.20 / -0.00	79.47
P190174063P2B*	190.00	+0.13 / -0.00					174.50	+0.00 / -0.10	6.30	+0.20 / -0.00	59.03
P195174081P2B*	195.00	+0.13 / -0.00					174.00	+0.00 / -0.10	8.10	+0.20 / -0.00	59.03
P195179063P2B*	195.00	+0.13 / -0.00					179.50	+0.00 / -0.10	6.30	+0.20 / -0.00	80.12
P200178110P2B	200.00	+0.13 / -0.00					178.00	+0.00 / -0.10	11.00	+0.20 / -0.00	126.14
P200179081P2B	200.00	+0.13 / -0.00					179.00	+0.00 / -0.10	8.10	+0.20 / -0.00	81.87
P200184063P2B	200.00	+0.13 / -0.00					184.50	+0.00 / -0.11	6.30	+0.20 / -0.00	60.45
P204182110P2B*	204.00	+0.13 / -0.00					182.00	+0.00 / -0.11	11.00	+0.20 / -0.00	60.45
P210188110P2B*	210.00	+0.13 / -0.00					188.00	+0.00 / -0.11	11.00	+0.20 / -0.00	61.54
P210189081P2B	210.00	+0.13 / -0.00					189.00	+0.00 / -0.11	8.10	+0.20 / -0.00	85.47
P210194063P2B*	210.00	+0.13 / -0.00					194.50	+0.00 / -0.11	6.30	+0.20 / -0.00	61.54
P215194081P2B	215.00	+0.13 / -0.00					194.50	+0.00 / -0.11	8.10	+0.20 / -0.00	83.32
P220199081P2B	220.00	+0.13 / -0.00					199.00	+0.00 / -0.11	8.10	+0.20 / -0.00	105.57
P220204063P2B*	220.00	+0.13 / -0.00					204.50	+0.00 / -0.11	6.30	+0.20 / -0.00	65.03
P224202110P2B*	224.00	+0.13 / -0.00					202.00	+0.00 / -0.11	11.00	+0.20 / -0.00	65.03

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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.	
P225203110P2B	225.00	+0.13 / -0.00					203.00	+0.00 / -0.11	11.00	+0.20 / -0.00	65.03
P225204081P2B	225.00	+0.13 / -0.00					204.00	+0.00 / -0.11	8.10	+0.20 / -0.00	91.46
P230208110P2B*	230.00	+0.13 / -0.00					208.00	+0.00 / -0.11	11.00	+0.20 / -0.00	71.45
P230209081P2B	230.00	+0.13 / -0.00					209.00	+0.00 / -0.11	8.10	+0.20 / -0.00	71.45
P230214063P2B*	230.00	+0.13 / -0.00					214.50	+0.00 / -0.11	6.30	+0.20 / -0.00	71.45
P240218110P2B*	240.00	+0.13 / -0.00					218.00	+0.00 / -0.11	11.00	+0.20 / -0.00	77.91
P240219081P2B	240.00	+0.13 / -0.00					219.00	+0.00 / -0.11	8.10	+0.20 / -0.00	93.24
P240224063P2B*	240.00	+0.13 / -0.00					224.50	+0.00 / -0.11	6.30	+0.20 / -0.00	77.91
P250225081P2B*	250.00	+0.13 / -0.00					225.50	+0.00 / -0.11	8.10	+0.20 / -0.00	94.84
P250228110P2B*	250.00	+0.13 / -0.00					228.00	+0.00 / -0.11	11.00	+0.20 / -0.00	83.46
P250229081P2B	250.00	+0.13 / -0.00					229.50	+0.00 / -0.11	8.10	+0.20 / -0.00	157.01
P250234063P2B*	250.00	+0.13 / -0.00					234.50	+0.00 / -0.11	6.30	+0.20 / -0.00	83.46
P260235081P2B*	260.00	+0.13 / -0.00					235.50	+0.00 / -0.11	8.10	+0.20 / -0.00	O/R
P260236120P2B*	260.00	+0.13 / -0.00					236.00	+0.00 / -0.11	12.00	+0.20 / -0.00	175.01
P260239081P2B	260.00	+0.13 / -0.00					239.00	+0.00 / -0.11	8.10	+0.20 / -0.00	124.39
P260244063P2B*	260.00	+0.13 / -0.00					244.50	+0.00 / -0.11	6.30	+0.20 / -0.00	O/R
P270245081P2B*	270.00	+0.13 / -0.00					245.50	+0.00 / -0.11	8.10	+0.20 / -0.00	O/R
P270246120P2B*	270.00	+0.13 / -0.00					246.00	+0.00 / -0.11	12.00	+0.20 / -0.00	O/R
P270249081P2B	270.00	+0.13 / -0.00					249.00	+0.00 / -0.11	8.10	+0.20 / -0.00	126.76
P275254081P2B*	275.00	+0.13 / -0.00					254.00	+0.00 / -0.11	8.10	+0.20 / -0.00	131.96
P280255081P2B	280.00	+0.15 / -0.00					255.00	+0.00 / -0.13	8.10	+0.20 / -0.00	129.13
P280256120P2B*	280.00	+0.15 / -0.00					256.00	+0.00 / -0.13	12.00	+0.20 / -0.00	O/R
P280259063P2B*	280.00	+0.15 / -0.00					259.00	+0.00 / -0.13	6.30	+0.20 / -0.00	195.71
P280259081P2B	280.00	+0.15 / -0.00					259.00	+0.00 / -0.13	8.10	+0.20 / -0.00	129.13
P290265081P2B*	290.00	+0.15 / -0.00					265.50	+0.00 / -0.13	8.10	+0.20 / -0.00	O/R
P290266120P2B*	290.00	+0.15 / -0.00					266.00	+0.00 / -0.13	12.00	+0.20 / -0.00	O/R
P290269081P2B*	290.00	+0.15 / -0.00					269.00	+0.00 / -0.13	8.10	+0.20 / -0.00	172.21
P300274081P2B	300.00	+0.15 / -0.00					274.50	+0.00 / -0.13	8.10	+0.20 / -0.00	118.46
P300275081P2B*	300.00	+0.15 / -0.00					275.50	+0.00 / -0.13	8.10	+0.20 / -0.00	O/R
P300276120P2B*	300.00	+0.15 / -0.00					276.00	+0.00 / -0.13	12.00	+0.20 / -0.00	O/R
P300279081P2B	300.00	+0.15 / -0.00					279.00	+0.00 / -0.13	8.10	+0.20 / -0.00	210.74
P300284063P2B*	300.00	+0.15 / -0.00					284.50	+0.00 / -0.13	6.30	+0.20 / -0.00	O/R
P310285063P2B*	310.00	+0.15 / -0.00					285.50	+0.00 / -0.13	6.30	+0.20 / -0.00	190.64
P310286120P2B	310.00	+0.15 / -0.00					286.00	+0.00 / -0.13	12.00	+0.20 / -0.00	210.07
P310289081P2B	310.00	+0.15 / -0.00					289.00	+0.00 / -0.13	8.10	+0.20 / -0.00	215.10
P320295081P2B	320.00	+0.15 / -0.00					295.50	+0.00 / -0.13	8.10	+0.20 / -0.00	197.50
P320296120P2B*	320.00	+0.15 / -0.00					296.00	+0.00 / -0.13	12.00	+0.20 / -0.00	O/R
P320299081P2B	320.00	+0.15 / -0.00					299.00	+0.00 / -0.13	8.10	+0.20 / -0.00	197.50
P320304063P2B*	320.00	+0.15 / -0.00					304.50	+0.00 / -0.13	6.30	+0.20 / -0.00	O/R
P330305081P2B	330.00	+0.15 / -0.00					305.50	+0.00 / -0.13	8.10	+0.20 / -0.00	155.82
P340315081P2B*	340.00	+0.15 / -0.00					315.50	+0.00 / -0.14	8.10	+0.20 / -0.00	232.71
P340312094P2B/GL15*	340.00	+0.15 / -0.00					312.00	+0.00 / -0.14	9.50	+0.20 / -0.00	239.41
P350325081P2B	350.00	+0.15 / -0.00					325.50	+0.00 / -0.14	8.10	+0.20 / -0.00	204.41
P350329081P2B*	350.00	+0.15 / -0.00					329.00	+0.00 / -0.14	8.10	+0.20 / -0.00	O/R
P360332095P2B*	360.00	+0.15 / -0.00					332.00	+0.00 / -0.14	9.50	+0.20 / -0.00	275.31
P360332095P2B/V*	360.00	+0.15 / -0.00					332.00	+0.00 / -0.14	9.50	+0.20 / -0.00	321.48
P360335081P2B	360.00	+0.15 / -0.00					335.50	+0.00 / -0.14	8.10	+0.20 / -0.00	204.72
P370345081P2B*	370.00	+0.15 / -0.00					345.50	+0.00 / -0.14	8.10	+0.20 / -0.00	247.29

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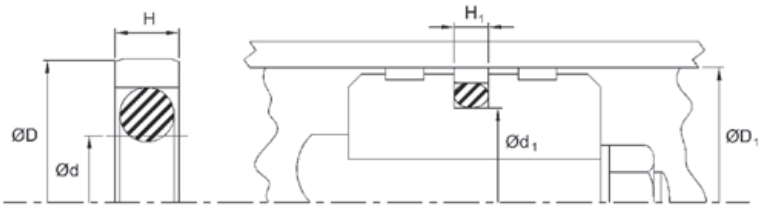
P2B SERIES - BR.PTFE/NBR

Ref.Number	Bore diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
P380355081P2B*	380.00	+0.15 / -0.00					355.50	+0.00 / -0.14	8.10	+0.20 / -0.00	255.54
P390365081P2B*	390.00	+0.15 / -0.00					365.50	+0.00 / -0.14	8.10	+0.20 / -0.00	268.78
P400375081P2B	400.00	+0.15 / -0.00					375.50	+0.00 / -0.14	8.10	+0.20 / -0.00	295.87
P400379081P2B*	400.00	+0.15 / -0.00					379.00	+0.00 / -0.14	8.10	+0.20 / -0.00	288.47
P410385081P2B*	410.00	+0.15 / -0.00					385.50	+0.00 / -0.14	8.10	+0.20 / -0.00	298.42
P420392095P2B*	420.00	+0.15 / -0.00					392.00	+0.00 / -0.14	9.50	+0.20 / -0.00	315.80
P420395081P2B*	420.00	+0.15 / -0.00					395.50	+0.00 / -0.14	8.10	+0.20 / -0.00	323.29
P430405081P2B*	430.00	+0.15 / -0.00					405.50	+0.00 / -0.15	8.10	+0.20 / -0.00	308.47
P440412095P2B*	440.00	+0.15 / -0.00					412.00	+0.00 / -0.15	9.50	+0.20 / -0.00	401.69
P440415081P2B*	440.00	+0.15 / -0.00					415.50	+0.00 / -0.15	8.10	+0.20 / -0.00	315.26
P450425081P2B	450.00	+0.15 / -0.00					425.50	+0.00 / -0.15	8.10	+0.20 / -0.00	355.70
P460435081P2B	460.00	+0.15 / -0.00					435.50	+0.00 / -0.15	8.10	+0.20 / -0.00	468.66
P470445081P2B*	470.00	+0.15 / -0.00					445.50	+0.00 / -0.15	8.10	+0.20 / -0.00	377.82
P480455081P2B*	480.00	+0.15 / -0.00					455.50	+0.00 / -0.15	8.10	+0.20 / -0.00	408.10
P490465081P2B*	490.00	+0.15 / -0.00					465.50	+0.00 / -0.15	8.10	+0.20 / -0.00	484.67
P500475081P2B*	500.00	+0.15 / -0.00					475.50	+0.00 / -0.15	8.10	+0.20 / -0.00	500.69

P2B/U - Piston Seals



Polyester/Nitrile **Temperature: -40/230F [-40/110C]** **Pressure: 5000 PSI [345 BAR]**
Polyurethane/Nitrile **Temperature: -20/212F [-28/100C]** **Pressure: N/A**

Ref.Number	Bore diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
P015007032P2B/U*	15.00	+0.08 / -0.00					7.50	+0.00 / -0.03	3.20	+0.20 / -0.00	2.54
P016008032P2B/U*	16.00	+0.08 / -0.00					8.50	+0.00 / -0.03	3.20	+0.20 / -0.00	2.94
P020012032P2B/U*	20.00	+0.08 / -0.00					12.50	+0.00 / -0.04	3.20	+0.20 / -0.00	3.02
P022014032P2B/U*	22.00	+0.08 / -0.00					14.50	+0.00 / -0.04	3.20	+0.20 / -0.00	3.02
P025014042P2B/U*	25.00	+0.08 / -0.00					14.00	+0.00 / -0.04	4.20	+0.20 / -0.00	3.18
P025017032P2B/754	25.00	+0.08 / -0.00					17.50	+0.00 / -0.04	3.20	+0.20 / -0.00	5.96
P025017032P2B/U*	25.00	+0.08 / -0.00					17.50	+0.00 / -0.04	3.20	+0.20 / -0.00	3.18
P030022032P2B/754	30.00	+0.08 / -0.00					22.50	+0.00 / -0.05	3.20	+0.20 / -0.00	6.62
P030022032P2B/U*	30.00	+0.08 / -0.00					22.50	+0.00 / -0.05	3.20	+0.20 / -0.00	3.41
P032021042P2B/U*	32.00	+0.08 / -0.00					21.00	+0.00 / -0.05	4.20	+0.20 / -0.00	3.41
P032024032P2B/754	32.00	+0.08 / -0.00					24.50	+0.00 / -0.05	3.20	+0.20 / -0.00	6.05
P032024032P2B/U*	32.00	+0.08 / -0.00					24.50	+0.00 / -0.05	3.20	+0.20 / -0.00	3.65
P035027032P2B/754	35.00	+0.08 / -0.00					27.50	+0.00 / -0.05	3.20	+0.20 / -0.00	6.20
P035027032P2B/U*	35.00	+0.08 / -0.00					27.50	+0.00 / -0.05	3.20	+0.20 / -0.00	3.73

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

P2B/U SERIES - POLYESTER/NBR, AU/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P038030032P2B/U*	38.00	+0.08 / -0.00					30.50	+0.00 / -0.05	3.20	+0.20 / -0.00	3.89
P040024063P2B/U*	40.00	+0.08 / -0.00					24.50	+0.00 / -0.05	6.30	+0.20 / -0.00	4.21
P040029042P2B/754	40.00	+0.08 / -0.00					29.00	+0.00 / -0.05	4.20	+0.20 / -0.00	7.40
P040029042P2B/U*	40.00	+0.08 / -0.00					29.00	+0.00 / -0.05	4.20	+0.20 / -0.00	4.45
P040032032P2B/U*	40.00	+0.08 / -0.00					32.50	+0.00 / -0.06	3.20	+0.20 / -0.00	4.53
P040032032P2B/754*	40.00	+0.06 / -0.00					32.50	+0.00 / -0.06	3.20	+0.20 / -0.00	6.55
P045029063P2B/U*	45.00	+0.08 / -0.00					29.50	+0.00 / -0.06	6.30	+0.20 / -0.00	4.53
P045034042P2B/754	45.00	+0.08 / -0.00					34.00	+0.00 / -0.06	4.20	+0.20 / -0.00	7.56
P045034042P2B/U*	45.00	+0.08 / -0.00					34.00	+0.00 / -0.06	4.20	+0.20 / -0.00	4.53
P050034063P2B/754	50.00	+0.08 / -0.00					34.50	+0.00 / -0.06	6.30	+0.20 / -0.00	6.46
P050034063P2B/U*	50.00	+0.08 / -0.00					34.50	+0.00 / -0.06	6.30	+0.20 / -0.00	5.16
P050037060P2B/U	50.00	+0.08 / -0.00					37.00	+0.00 / -0.06	6.00	+0.20 / -0.00	12.25
P050039042P2B/754	50.00	+0.08 / -0.00					39.00	+0.00 / -0.06	4.20	+0.20 / -0.00	7.93
P050039042P2B/U*	50.00	+0.08 / -0.00					39.00	+0.00 / -0.06	4.20	+0.20 / -0.00	4.68
P055039063P2B/754	55.00	+0.08 / -0.00					39.50	+0.00 / -0.06	6.30	+0.20 / -0.00	12.75
P055039063P2B/U*	55.00	+0.08 / -0.00					39.50	+0.00 / -0.06	6.30	+0.20 / -0.00	5.72
P055044042P2B/754	55.00	+0.08 / -0.00					44.00	+0.00 / -0.06	4.20	+0.20 / -0.00	7.21
P055044042P2B/U*	55.00	+0.08 / -0.00					44.00	+0.00 / -0.06	4.20	+0.20 / -0.00	5.40
P060044063P2B/754	60.00	+0.08 / -0.00					44.50	+0.00 / -0.06	6.30	+0.20 / -0.00	7.06
P060044063P2B/U*	60.00	+0.08 / -0.00					44.50	+0.00 / -0.06	6.30	+0.20 / -0.00	5.80
P060049042P2B/754	60.00	+0.08 / -0.00					49.00	+0.00 / -0.06	4.20	+0.20 / -0.00	8.46
P060049042P2B/U*	60.00	+0.08 / -0.00					49.00	+0.00 / -0.06	4.20	+0.20 / -0.00	5.56
P063047063P2B/754	63.00	+0.08 / -0.00					47.50	+0.00 / -0.06	6.30	+0.20 / -0.00	10.95
P063047063P2B/U*	63.00	+0.08 / -0.00					47.50	+0.00 / -0.06	6.30	+0.20 / -0.00	6.35
P063050063P2B/754	63.00	+0.08 / -0.00					50.00	+0.00 / -0.06	6.30	+0.20 / -0.00	11.95
P063052042P2B/754	63.00	+0.08 / -0.00					52.00	+0.00 / -0.06	4.20	+0.20 / -0.00	8.64
P063052042P2B/U*	63.00	+0.08 / -0.00					52.00	+0.00 / -0.07	4.20	+0.20 / -0.00	5.95
P065049063P2B/U*	65.00	+0.08 / -0.00					49.50	+0.00 / -0.06	6.30	+0.20 / -0.00	6.35
P065049063P2B/754*	65.00	+0.07 / -0.00					49.50	+0.00 / -0.06	6.30	+0.20 / -0.00	8.20
P065052063P2B/754*	65.00	+0.08 / -0.00					52.00	+0.00 / -0.07	6.30	+0.20 / -0.00	8.02
P065054042P2B/754	65.00	+0.08 / -0.00					54.00	+0.00 / -0.07	4.20	+0.20 / -0.00	7.85
P065054042P2B/U*	65.00	+0.08 / -0.00					54.00	+0.00 / -0.07	4.20	+0.20 / -0.00	6.11
P070054063P2B/754	70.00	+0.08 / -0.00					54.50	+0.00 / -0.07	6.30	+0.20 / -0.00	9.32
P070054063P2B/U*	70.00	+0.08 / -0.00					54.50	+0.00 / -0.07	6.30	+0.20 / -0.00	6.67
P070057063P2B/754	70.00	+0.08 / -0.00					57.00	+0.00 / -0.07	6.30	+0.20 / -0.00	9.93
P070059042P2B/754	70.00	+0.08 / -0.00					59.00	+0.00 / -0.07	4.20	+0.20 / -0.00	10.25
P070059042P2B/U*	70.00	+0.08 / -0.00					59.00	+0.00 / -0.07	4.20	+0.20 / -0.00	6.27
P075059063P2B/754	75.00	+0.08 / -0.00					59.50	+0.00 / -0.07	6.30	+0.20 / -0.00	16.04
P075059063P2B/U*	75.00	+0.08 / -0.00					59.50	+0.00 / -0.07	6.30	+0.20 / -0.00	6.67
P075064042P2B/754	75.00	+0.08 / -0.00					64.00	+0.00 / -0.07	4.20	+0.20 / -0.00	10.99
P075064042P2B/U*	75.00	+0.08 / -0.00					64.00	+0.00 / -0.07	4.20	+0.20 / -0.00	6.67
P080064063P2B/754	80.00	+0.10 / -0.00					64.50	+0.00 / -0.07	6.30	+0.20 / -0.00	12.33
P080064063P2B/U*	80.00	+0.10 / -0.00					64.50	+0.00 / -0.07	6.30	+0.20 / -0.00	7.15
P080069042P2B/U*	80.00	+0.10 / -0.00					69.50	+0.00 / -0.07	4.20	+0.20 / -0.00	7.15
P085069063P2B/754	85.00	+0.10 / -0.00					69.50	+0.00 / -0.07	6.30	+0.20 / -0.00	14.30
P085069063P2B/U*	85.00	+0.10 / -0.00					69.50	+0.00 / -0.07	6.30	+0.20 / -0.00	7.54
P090074063P2B/754	90.00	+0.10 / -0.00					74.50	+0.00 / -0.07	6.30	+0.20 / -0.00	8.65
P090074063P2B/U*	90.00	+0.10 / -0.00					74.50	+0.00 / -0.07	6.30	+0.20 / -0.00	14.77

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

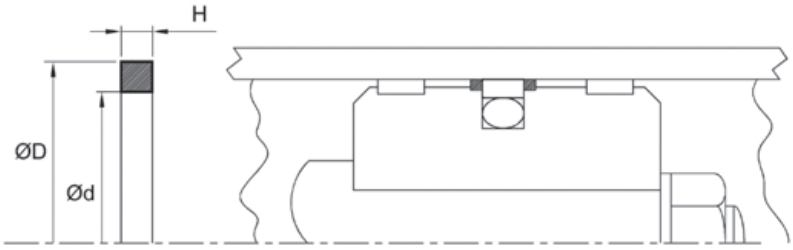
P2B/U SERIES - POLYESTER/NBR, AU/NBR

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P095079063P2B/U*	95.00	+0.10 / -0.00					79.50	+0.00 / -0.08	6.30	+0.20 / -0.00	9.13
P100084063P2B/754	100.00	+0.10 / -0.00					84.50	+0.00 / -0.08	6.30	+0.20 / -0.00	13.05
P100084063P2B/U*	100.00	+0.10 / -0.00					84.50	+0.00 / -0.08	6.30	+0.20 / -0.00	9.37
P100089042P2B/U*	100.00	+0.10 / -0.00					89.00	+0.00 / -0.08	4.20	+0.20 / -0.00	9.45
P105089063P2B/U*	105.00	+0.10 / -0.00					89.50	+0.00 / -0.08	6.30	+0.20 / -0.00	9.53
P110094063P2B/U*	110.00	+0.10 / -0.00					94.50	+0.00 / -0.08	6.30	+0.20 / -0.00	10.24
P115094081P2B/U*	115.00	+0.10 / -0.00					94.00	+0.00 / -0.08	8.10	+0.20 / -0.00	10.96
P115099063P2B/754	115.00	+0.10 / -0.00					99.50	+0.00 / -0.08	6.30	+0.20 / -0.00	16.79
P115099063P2B/U*	115.00	+0.10 / -0.00					99.50	+0.00 / -0.08	6.30	+0.20 / -0.00	10.80
P120099081P2B/754*	120.00	+0.10 / -0.00					99.00	+0.00 / -0.08	8.10	+0.20 / -0.00	20.43
P120104063P2B/U*	120.00	+0.10 / -0.00					104.50	+0.00 / -0.08	6.30	+0.20 / -0.00	11.35
P125104081P2B/754	125.00	+0.10 / -0.00					104.00	+0.00 / -0.08	8.10	+0.20 / -0.00	16.41
P125104081P2B/U*	125.00	+0.10 / -0.00					104.00	+0.00 / -0.08	8.10	+0.20 / -0.00	12.15
P125109063P2B/754	125.00	+0.10 / -0.00					109.50	+0.00 / -0.08	6.30	+0.20 / -0.00	16.11
P125109063P2B/U*	125.00	+0.10 / -0.00					109.50	+0.00 / -0.08	6.30	+0.20 / -0.00	11.83
P130109081P2B/754	130.00	+0.10 / -0.00					109.00	+0.00 / -0.08	8.10	+0.20 / -0.00	14.57
P130114063P2B/754	130.00	+0.10 / -0.00					114.50	+0.00 / -0.08	6.30	+0.20 / -0.00	17.38
P130114063P2B/U*	130.00	+0.10 / -0.00					114.50	+0.00 / -0.08	6.30	+0.20 / -0.00	12.54
P135114081P2B/U*	135.00	+0.10 / -0.00					114.00	+0.00 / -0.08	8.10	+0.20 / -0.00	12.54
P140119081P2B/754	140.00	+0.10 / -0.00					119.00	+0.00 / -0.08	8.10	+0.20 / -0.00	25.66
P140119081P2B/U*	140.00	+0.10 / -0.00					119.00	+0.00 / -0.08	8.10	+0.20 / -0.00	13.34
P140124063P2B/754*	140.00	+0.10 / -0.00					124.50	+0.00 / -0.10	6.30	+0.20 / -0.00	22.50
P150129081P2B/754	150.00	+0.10 / -0.00					129.00	+0.00 / -0.10	8.10	+0.20 / -0.00	26.75
P150129081P2B/U*	150.00	+0.10 / -0.00					129.00	+0.00 / -0.10	8.10	+0.20 / -0.00	16.28
P160139081P2B/754	160.00	+0.10 / -0.00					139.00	+0.00 / -0.10	8.10	+0.20 / -0.00	28.18
P160139081P2B/U*	160.00	+0.10 / -0.00					139.00	+0.00 / -0.10	8.10	+0.20 / -0.00	16.28
P165144081P2B/754*	165.00	+0.10 / -0.00					144.00	+0.00 / -0.10	8.10	+0.20 / -0.00	24.41
P170149081P2B/754	170.00	+0.10 / -0.00					149.00	+0.00 / -0.10	8.10	+0.20 / -0.00	21.22
P170149081P2B/U*	170.00	+0.10 / -0.00					149.00	+0.00 / -0.10	8.10	+0.20 / -0.00	19.05
P180159081P2B/754	180.00	+0.13 / -0.00					159.00	+0.00 / -0.10	8.10	+0.20 / -0.00	32.87
P180159081P2B/U*	180.00	+0.13 / -0.00					159.00	+0.00 / -0.10	8.10	+0.20 / -0.00	23.82
P190169081P2B/754	190.00	+0.13 / -0.00					169.00	+0.00 / -0.10	8.10	+0.20 / -0.00	26.36
P200179081P2B/754	200.00	+0.13 / -0.00					179.00	+0.00 / -0.10	8.10	+0.20 / -0.00	41.14
P200179081P2B/U*	200.00	+0.13 / -0.00					179.00	+0.00 / -0.10	8.10	+0.20 / -0.00	31.52
P210189081P2B/754	210.00	+0.13 / -0.00					189.00	+0.00 / -0.10	8.10	+0.20 / -0.00	35.26
P220199081P2B/754*	220.00	+0.13 / -0.00					199.00	+0.00 / -0.11	8.10	+0.20 / -0.00	O/R
P225204081P2B/754*	225.00	+0.13 / -0.00					204.00	+0.00 / -0.11	8.10	+0.20 / -0.00	31.91
P240219081P2B/754*	240.00	+0.13 / -0.00					219.00	+0.00 / -0.11	8.10	+0.20 / -0.00	37.76
P250229081P2B/U*	250.00	+0.13 / -0.00					229.00	+0.00 / -0.11	8.10	+0.20 / -0.00	57.09
P300279081P2B/754*	300.00	+0.13 / -0.00					279.00	+0.00 / -0.11	8.10	+0.20 / -0.00	O/R

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

ST/N - Back-up Rings

Nylon - Split



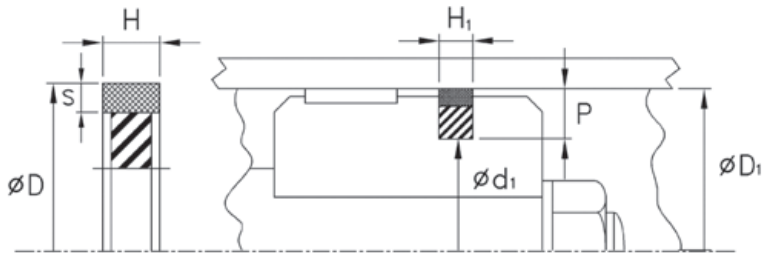
Temperature: -40/250F [-40/121C] **Pressure: N/A**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	H			d	D	H	
BU090095025ST/N	90.00	95.00	2.50	21.49	BU124130030ST/N	124.00	130.00	3.00	27.04
BU089095030ST/N*	89.00	95.00	3.00	23.17	BU130135025ST/N*	130.00	135.00	2.50	24.34
BU095100025ST/N	95.00	100.00	2.50	21.49	BU129135030ST/N	129.00	135.00	3.00	32.09
BU100105025ST/N	100.00	105.00	2.50	21.49	BU134140030ST/N	134.00	140.00	3.00	37.13
BU105110025ST/N*	105.00	110.00	2.50	23.17	BU139145030ST/N	139.00	145.00	3.00	37.79
BU104110030ST/N	104.00	110.00	3.00	23.17	BU144150030ST/N	144.00	150.00	3.00	38.59
BU110115025ST/N*	110.00	115.00	2.50	23.17	BU154160030ST/N	154.00	160.00	3.00	38.23
BU109115030ST/N	109.00	115.00	3.00	24.34	BU159165030ST/N*	159.00	165.00	3.00	39.22
BU115120025ST/N*	115.00	120.00	2.50	23.17	BU164170030ST/N	164.00	170.00	3.00	45.31
BU114120030ST/N	114.00	120.00	3.00	27.04	BU174180030ST/N*	174.00	180.00	3.00	46.06
BU120125025ST/N*	120.00	125.00	2.50	24.34	BU184190030ST/N*	184.00	190.00	3.00	46.56
BU119125030ST/N	119.00	125.00	3.00	25.37					

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

P2G - Piston Seals

Nylon/Nitrile (Step Cut)



Temperature: -22/230F [-30/110C] **Pressure: 7250 PSI [500 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions				$
		Tol.	D	S	H	EXP.	d1	Tol.	H1	Tol.	
P025014042P2G*	25.00	+0.08 / -0.00					14.00	+0.00 / -0.04	4.20	+0.20 / -0.00	O/R
P032021042P2G*	32.00	+0.08 / -0.00					21.00	+0.00 / -0.05	4.20	+0.20 / -0.00	O/R
P040026058P2G*	40.00	+0.08 / -0.00					26.30	+0.00 / -0.05	5.80	+0.20 / -0.00	O/R
P040029042P2G*	40.00	+0.08 / -0.00					29.00	+0.00 / -0.05	4.20	+0.20 / -0.00	15.18
P050034063P2G*	50.00	+0.08 / -0.00					34.50	+0.00 / -0.06	6.30	+0.20 / -0.00	23.39
P050036058P2G*	50.00	+0.08 / -0.00					36.30	+0.00 / -0.06	5.80	+0.20 / -0.00	O/R
P050039042P2G*	50.00	+0.08 / -0.00					39.00	+0.00 / -0.06	4.20	+0.20 / -0.00	16.33
P060041070P2G*	60.00	+0.08 / -0.00					41.70	+0.00 / -0.06	7.00	+0.20 / -0.00	O/R
P063044070P2G*	63.00	+0.08 / -0.00					44.70	+0.00 / -0.06	7.00	+0.20 / -0.00	O/R
P063047063P2G*	63.00	+0.08 / -0.00					47.50	+0.00 / -0.06	6.30	+0.20 / -0.00	24.84
P070051070P2G*	70.00	+0.08 / -0.00					51.70	+0.00 / -0.07	7.00	+0.20 / -0.00	O/R
P070059042P2G*	70.00	+0.08 / -0.00					59.00	+0.00 / -0.07	4.20	+0.20 / -0.00	19.26
P075054080P2G*	75.00	+0.08 / -0.00					54.00	+0.00 / -0.07	8.00	+0.20 / -0.00	18.03
P075059063P2G*	75.00	+0.08 / -0.00					59.50	+0.00 / -0.07	6.30	+0.20 / -0.00	19.26
P080059080P2G*	80.00	+0.10 / -0.00					59.00	+0.00 / -0.07	8.00	+0.20 / -0.00	18.51
P080064063P2G*	80.00	+0.10 / -0.00					64.50	+0.00 / -0.07	6.30	+0.20 / -0.00	23.19
P085064080P2G*	85.00	+0.10 / -0.00					64.00	+0.00 / -0.07	8.00	+0.20 / -0.00	O/R
P090069080P2G*	90.00	+0.10 / -0.00					69.00	+0.00 / -0.07	8.00	+0.20 / -0.00	24.00
P090074063P2G*	90.00	+0.10 / -0.00					74.50	+0.00 / -0.07	6.30	+0.20 / -0.00	39.14
P095074080P2G*	95.00	+0.10 / -0.00					74.00	+0.00 / -0.07	8.00	+0.20 / -0.00	O/R
P100079080P2G	100.00	+0.10 / -0.00					79.00	+0.00 / -0.07	8.00	+0.20 / -0.00	26.53
P100084063P2G	100.00	+0.10 / -0.00					84.50	+0.00 / -0.08	6.30	+0.20 / -0.00	32.44
P105084080P2G*	105.00	+0.10 / -0.00					84.00	+0.00 / -0.08	8.00	+0.20 / -0.00	29.91
P110089080P2G	110.00	+0.10 / -0.00					89.00	+0.00 / -0.08	8.00	+0.20 / -0.00	31.23
P115094080P2G*	115.00	+0.10 / -0.00					94.00	+0.00 / -0.08	8.00	+0.20 / -0.00	34.82
P120099080P2G	120.00	+0.10 / -0.00					99.00	+0.00 / -0.08	8.00	+0.20 / -0.00	35.22
P125104080P2G	125.00	+0.10 / -0.00					104.00	+0.00 / -0.08	8.00	+0.20 / -0.00	38.68
P125109063P2G*	125.00	+0.10 / -0.00					109.50	+0.00 / -0.08	6.30	+0.20 / -0.00	43.87
P130109080P2G*	130.00	+0.10 / -0.00					109.00	+0.00 / -0.08	8.00	+0.20 / -0.00	41.16
P135114080P2G*	135.00	+0.10 / -0.00					114.00	+0.00 / -0.08	8.00	+0.20 / -0.00	52.95
P140119080P2G	140.00	+0.10 / -0.00					119.00	+0.00 / -0.08	8.00	+0.20 / -0.00	48.12
P140125080P2G*	140.00	+0.10 / -0.00					125.00	+0.00 / -0.08	8.00	+0.20 / -0.00	61.61
P145124080P2G*	145.00	+0.10 / -0.00					124.00	+0.00 / -0.10	8.00	+0.20 / -0.00	67.01
P150129080P2G	150.00	+0.10 / -0.00					129.00	+0.00 / -0.10	8.00	+0.20 / -0.00	50.55
P160139080P2G	160.00	+0.10 / -0.00					139.00	+0.00 / -0.10	8.00	+0.20 / -0.00	53.97
P160144063P2G*	160.00	+0.10 / -0.00					144.50	+0.00 / -0.10	6.30	+0.20 / -0.00	O/R
P165144080P2G*	165.00	+0.10 / -0.00					144.00	+0.00 / -0.10	8.00	+0.20 / -0.00	77.03
P170149080P2G*	170.00	+0.10 / -0.00					149.00	+0.00 / -0.10	8.00	+0.20 / -0.00	58.82

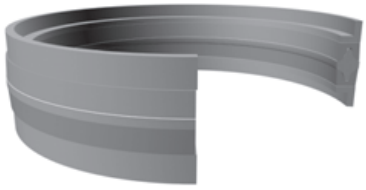
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

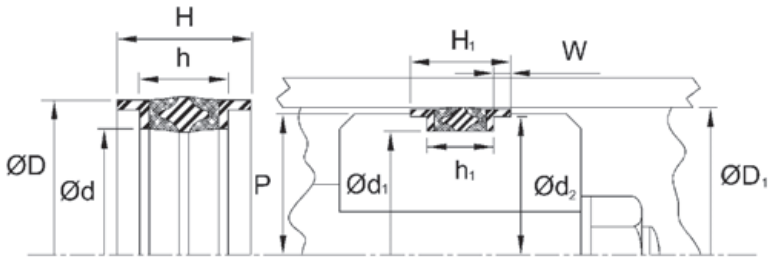
P2G SERIES - NYLON/NBR

Ref.Number	Bore diameter	Tol.	Nominal Seal Dimensions D	S	H	EXP.	Housing Dimensions d1	Tol.	H1	Tol.	$
P175154080P2G*	175.00	+0.10 / -0.00					154.00	+0.00 / -0.10	8.00	+0.20 / -0.00	97.66
P180159080P2G*	180.00	+0.13 / -0.00					159.00	+0.00 / -0.10	8.00	+0.20 / -0.00	68.92
P185164080P2G*	185.00	+0.13 / -0.00					164.00	+0.00 / -0.10	8.00	+0.20 / -0.00	108.85
P190169080P2G	190.00	+0.13 / -0.00					169.00	+0.00 / -0.10	8.00	+0.20 / -0.00	86.93
P200179080P2G	200.00	+0.13 / -0.00					179.00	+0.00 / -0.10	8.00	+0.20 / -0.00	96.04
P210189080P2G*	210.00	+0.13 / -0.00					189.00	+0.00 / -0.11	8.00	+0.20 / -0.00	226.65
P215194080P2G*	215.00	+0.13 / -0.00					194.00	+0.00 / -0.11	8.00	+0.20 / -0.00	140.21
P220199080P2G	220.00	+0.13 / -0.00					199.00	+0.00 / -0.11	8.00	+0.20 / -0.00	107.72
P225204080P2G*	225.00	+0.13 / -0.00					204.00	+0.00 / -0.11	8.00	+0.20 / -0.00	157.12
P230209080P2G	230.00	+0.13 / -0.00					209.00	+0.00 / -0.11	8.00	+0.20 / -0.00	123.09
P235214080P2G*	235.00	+0.13 / -0.00					214.00	+0.00 / -0.11	8.00	+0.20 / -0.00	131.20
P240225080P2G*	240.00	+0.13 / -0.00					225.00	+0.00 / -0.11	8.00	+0.20 / -0.00	O/R
P250229080P2G*	250.00	+0.13 / -0.00					229.00	+0.00 / -0.11	8.00	+0.20 / -0.00	159.84
P260239080P2G*	260.00	+0.13 / -0.00					239.00	+0.00 / -0.11	8.00	+0.20 / -0.00	211.95
P280255080P2G	280.00	+0.15 / -0.00					255.50	+0.00 / -0.13	8.00	+0.20 / -0.00	171.72
P300272095P2G	300.00	+0.15 / -0.00					272.00	+0.00 / -0.13	9.50	+0.20 / -0.00	O/R
P320292095P2G*	320.00	+0.15 / -0.00					292.00	+0.00 / -0.13	9.50	+0.20 / -0.00	O/R
P330302095P2G*	330.00	+0.15 / -0.00					302.00	+0.00 / -0.13	9.50	+0.20 / -0.00	O/R
P350322095P2G	350.00	+0.15 / -0.00					322.00	+0.00 / -0.14	9.50	+0.20 / -0.00	O/R

P3C - Piston Seals

Neofab/Polyamide





Temperature: -22/212F [-30/100C] **Pressure: 6000 PSI [415 BAR]**

Ref.Number	Bore diameter	Tol.	Nominal Seal Dimensions D	d	h	H	Housing Dimensions d1 +.00/ -.08	d2 +.12/ -.12	P +.10/ -.10	h1 +.20/ -.00	W +.10/ -.00	$
P025017135P3C	25.00	+0.08 / -0.00	25.00	17.00	13.50	19.90	17.00	21.00	24.40	13.50	3.20	10.56
P030022135P3C	30.00	+0.08 / -0.00	30.00	22.00	13.50	19.90	22.00	26.00	29.40	13.50	3.20	10.56
P032024155P3C	32.00	+0.08 / -0.00	32.00	24.00	15.50	21.90	24.00	28.00	31.40	15.50	3.20	10.56
P035027155P3C	35.00	+0.08 / -0.00	35.00	27.00	15.50	21.90	27.00	31.00	34.40	15.50	3.20	11.43
P040032155P3C	40.00	+0.08 / -0.00	40.00	32.00	15.50	23.40	32.00	36.00	39.40	15.50	4.20	11.91
P045037155P3C*	45.00	+0.08 / -0.00	45.00	37.00	15.50	23.90	37.00	41.00	44.40	15.50	4.20	12.94
P050034184P3C*	50.00	+0.08 / -0.00	50.00	34.00	18.40	31.10	34.00	45.40	48.70	18.40	6.35	15.03
P050038205P3C	50.00	+0.08 / -0.00	50.00	38.00	20.50	28.90	38.00	46.00	49.40	20.50	4.20	13.34
P055043205P3C	55.00	+0.08 / -0.00	55.00	43.00	20.50	28.90	43.00	51.00	54.40	20.50	4.20	30.34
P060040310P3C*	60.00	+0.08 / -0.00	60.00	40.00	31.00	45.00	40.00	53.85	58.50	31.00	7.00	19.97
P060044180P3C*	60.00	+0.08 / -0.00	60.00	44.00	18.00	31.20	44.00	55.40	58.70	18.50	6.35	19.24
P060048205P3C	60.00	+0.08 / -0.00	60.00	48.00	20.50	28.90	48.00	56.00	59.40	20.50	4.20	15.16

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

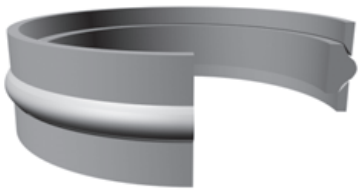
P3C SERIES - NEO/PA

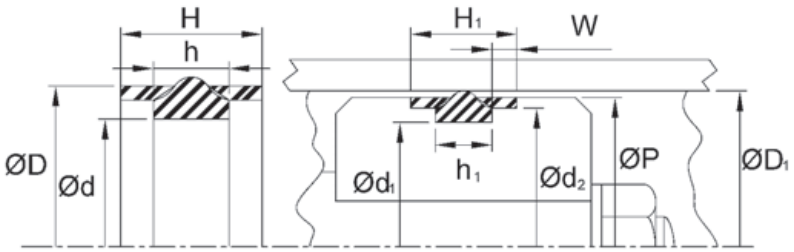
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1 +.00/ -.08	d2 +.12/ -.12	P +.10/ -.10	h1 +.20/ -.00	W +.10/ -.00	
P063043310P3C*	63.00	+0.08 / -0.00	63.00	43.00	31.00	45.00	43.00	56.85	61.50	31.00	7.00	28.45
P063047190P3C*	63.00	+0.08 / -0.00	63.00	47.00	19.00	31.70	47.00	58.40	61.65	19.40	6.35	19.24
P063048240P3C	63.00	+0.08 / -0.00	63.00	48.00	24.00	36.00	48.00	57.85	61.50	24.00	6.00	18.64
P063051205P3C	63.00	+0.08 / -0.00	63.00	51.00	20.50	28.90	51.00	59.00	62.40	20.50	4.20	15.16
P065050180P3C*	65.00	+0.08 / -0.00	65.00	50.00	18.00	30.90	50.00	60.40	63.70	18.40	6.35	19.24
P065053205P3C	65.00	+0.08 / -0.00	65.00	53.00	20.50	28.90	53.00	61.00	64.40	20.50	4.20	15.32
P070050310P3C*	70.00	+0.08 / -0.00	70.00	50.00	31.00	45.00	50.00	63.85	68.00	31.00	7.00	27.17
P070058205P3C	70.00	+0.08 / -0.00	70.00	58.00	20.50	28.90	58.00	66.00	69.40	20.50	4.20	15.56
P075055220P3C*	75.00	+0.08 / -0.00	75.00	55.00	22.00	34.90	55.00	69.20	73.30	22.40	6.35	22.74
P075055310P3C*	75.00	+0.08 / -0.00	75.00	55.00	31.00	45.00	55.00	68.85	73.00	31.00	7.00	57.57
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	15.56
P080060220P3C	80.00	+0.08 / -0.00	80.00	60.00	22.00	34.00	60.00	74.20	78.30	22.40	6.35	24.66
P080060310P3C*	80.00	+0.08 / -0.00	80.00	60.00	31.00	45.00	60.00	73.85	78.00	31.00	7.00	59.44
P080065200P3C*	80.00	+0.08 / -0.00	80.00	65.00	20.00	28.40	65.00	76.00	79.40	20.00	4.20	16.91
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	17.07
P085071225P3C	85.00	+0.10 / -0.00	85.00	71.00	22.50	32.90	71.00	81.00	84.40	22.50	5.20	18.26
P090070310P3C	90.00	+0.10 / -0.00	90.00	70.00	31.00	45.00	70.00	83.85	88.00	31.00	7.00	30.78
P090076225P3C	90.00	+0.10 / -0.00	90.00	76.00	22.50	32.90	76.00	86.00	89.40	22.50	5.20	18.98
P100080310P3C*	100.00	+0.10 / -0.00	100.00	80.00	31.00	45.00	80.00	93.85	98.00	31.00	7.00	28.73
P100086225P3C	100.00	+0.10 / -0.00	100.00	86.00	22.50	32.90	86.00	96.00	99.40	22.50	5.20	22.46
P110090310P3C	110.00	+0.10 / -0.00	110.00	90.00	31.00	45.00	90.00	103.85	108.00	31.00	7.00	71.50
P110096225P3C	110.00	+0.10 / -0.00	110.00	96.00	22.50	32.90	96.00	106.00	109.40	22.50	5.20	22.79
P115095310P3C*	115.00	+0.10 / -0.00	115.00	95.00	31.00	45.00	95.00	108.85	113.00	31.00	7.00	71.56
P115101225P3C*	115.00	+0.10 / -0.00	115.00	101.00	22.50	32.90	101.00	111.00	114.40	22.50	5.20	23.02
P120100310P3C	120.00	+0.10 / -0.00	120.00	100.00	31.00	45.00	100.00	113.85	118.00	31.00	7.00	39.67
P120106225P3C	120.00	+0.10 / -0.00	120.00	106.00	22.50	32.90	106.00	116.00	119.40	22.50	5.20	24.69
P125100250P3C*	125.00	+0.10 / -0.00	125.00	100.00	25.00	37.90	100.00	118.50	123.00	25.00	6.45	38.40
P125100380P3C	125.00	+0.10 / -0.00	125.00	100.00	38.00	57.00	100.00	118.85	123.00	38.00	9.50	41.95
P125103265P3C*	125.00	+0.10 / -0.00	125.00	103.00	26.50	40.90	103.00	121.00	124.40	26.50	7.20	28.11
P125108265P3C*	125.00	+0.10 / -0.00	125.00	108.00	26.50	40.90	108.00	121.00	124.40	26.50	7.20	28.52
P130104380P3C	130.00	+0.10 / -0.00	130.00	104.00	38.00	57.00	104.00	123.85	128.00	38.00	9.50	105.23
P140120310P3C*	140.00	+0.10 / -0.00	140.00	120.00	31.00	45.00	120.00	133.85	138.00	31.00	7.00	77.08
P140123265P3C*	140.00	+0.10 / -0.00	140.00	123.00	26.50	40.90	123.00	136.00	139.40	26.50	7.20	30.41
P145125310P3C	145.00	+0.10 / -0.00	145.00	125.00	31.00	45.00	125.00	138.85	143.00	31.00	7.00	129.33
P150120440P3C*	150.00	+0.10 / -0.00	150.00	120.00	44.00	63.00	120.00	143.85	148.00	44.00	9.50	176.89
P150133265P3C*	150.00	+0.10 / -0.00	150.00	133.00	26.50	40.90	133.00	146.00	149.40	26.50	7.20	32.31
P160140250P3C*	160.00	+0.10 / -0.00	160.00	140.00	25.00	39.40	140.00	156.00	159.40	25.00	7.20	57.33
P160140310P3C*	160.00	+0.10 / -0.00	160.00	140.00	31.00	45.00	140.00	153.85	158.00	31.00	7.00	156.16
P160143265P3C	160.00	+0.10 / -0.00	160.00	143.00	26.50	40.90	143.00	156.00	159.40	26.50	7.20	44.38
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	64.00
P180163265P3C	180.00	+0.13 / -0.00	180.00	163.00	26.50	40.90	163.00	176.00	179.40	26.50	7.20	42.83
P190160440P3C*	190.00	+0.13 / -0.00	190.00	160.00	44.00	63.00	160.00	183.85	188.00	44.00	9.50	70.84
P200170352P3C*	200.00	+0.13 / -0.00	200.00	170.00	35.20	48.00	170.00	192.96	197.84	35.40	6.35	92.90
P200180315P3C	200.00	+0.13 / -0.00	200.00	180.00	31.50	49.90	180.00	196.00	199.40	31.50	9.20	56.29
P220200310P3C*	220.00	+0.13 / -0.00	220.00	200.00	31.00	45.00	200.00	213.85	218.00	31.00	7.00	253.05
P220200315P3C*	220.00	+0.13 / -0.00	220.00	200.00	31.50	50.50	200.00	216.00	219.40	31.50	9.50	44.72
P250225315P3C*	250.00	+0.13 / -0.00	250.00	225.00	31.50	44.70	225.00	246.00	249.40	31.50	6.60	73.76
P250230315P3C	250.00	+0.13 / -0.00	250.00	230.00	31.50	49.90	230.00	246.00	249.40	31.50	9.20	74.00

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

P3D - Piston Seals

Nitrile/Polyamide





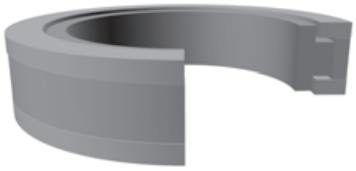
Temperature: -22/212F [-30/100C] **Pressure: 2500 PSI [160 BAR]**

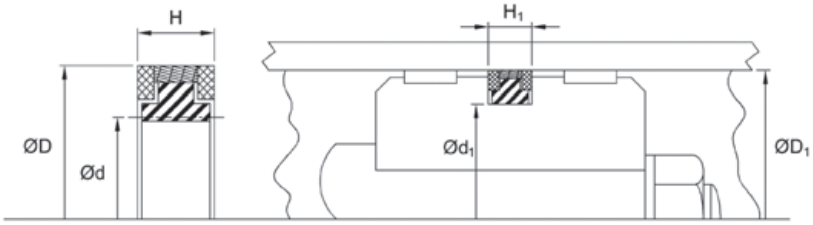
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.00/ -.04	+.00/ -.05	+.00/ -.13	+.40/ -.13	+.00/ -.13	
P025017085P3D*	25.00	+0.20 / -0.00	25.00	17.50	8.50	15.00	17.50	21.30	24.00	8.50	3.25	6.60
P025017085P3D/65*	25.00	+0.20 / -0.00	25.00	17.50	8.50	15.00	17.50	21.30	24.00	8.50	3.25	26.65
P032022110P3D*	32.00	+0.20 / -0.00	32.00	22.00	11.00	19.00	22.00	27.50	31.00	11.00	4.00	6.26
P032022110P3D/65*	32.00	+0.20 / -0.00	32.00	22.00	11.00	19.00	22.00	27.50	31.00	11.00	4.00	18.48
P040030110P3D	40.00	+0.20 / -0.00	40.00	30.00	11.00	19.00	30.00	35.50	39.00	11.00	4.00	8.43
P040030110P3D/65*	40.00	+0.20 / -0.00	40.00	30.00	11.00	19.00	30.00	35.50	39.00	11.00	4.00	29.99
P050040110P3D*	50.00	+0.20 / -0.00	50.00	40.00	11.00	19.00	40.00	45.50	49.00	11.00	4.00	8.66
P050040110P3D/65*	50.00	+0.20 / -0.00	50.00	40.00	11.00	19.00	40.00	45.50	49.00	11.00	4.00	32.08
P063053110P3D*	63.00	+0.20 / -0.00	63.00	53.00	11.00	19.00	53.00	58.50	61.50	11.00	4.00	11.17
P063053110P3D/65*	63.00	+0.20 / -0.00	63.00	53.00	11.00	19.00	53.00	58.50	61.50	11.00	4.00	38.32
P080070110P3D*	80.00	+0.20 / -0.00	80.00	70.00	11.00	19.00	70.00	75.50	78.50	11.00	4.00	15.63
P080070110P3D/65*	80.00	+0.20 / -0.00	80.00	70.00	11.00	19.00	70.00	75.50	78.50	11.00	4.00	41.72
P092082110P3D*	92.00	+0.20 / -0.00	92.00	82.00	11.00	19.00	82.00	87.50	90.50	11.00	4.00	13.61
P100087140P3D*	100.00	+0.20 / -0.00	100.00	87.00	14.00	26.00	87.00	93.80	98.50	14.00	6.00	31.26
P100087140P3D/65*	100.00	+0.20 / -0.00	100.00	87.00	14.00	26.00	87.00	93.80	98.50	14.00	6.00	75.62
P125112140P3D*	125.00	+0.20 / -0.00	125.00	112.00	14.00	26.00	112.00	118.00	123.50	14.00	6.00	39.67
P125112140P3D/65*	125.00	+0.20 / -0.00	125.00	112.00	14.00	26.00	112.00	118.00	123.50	14.00	6.00	83.46
P140124175P3D*	140.00	+0.20 / -0.00	140.00	124.00	17.50	35.00	124.00	132.00	138.50	17.50	8.75	19.51
P140124175P3D/65*	140.00	+0.20 / -0.00	140.00	124.00	17.50	35.00	124.00	132.00	138.50	17.50	8.75	96.50
P160140250P3D*	160.00	+0.20 / -0.00	160.00	140.00	25.00	50.00	140.00	151.40	158.50	25.00	12.50	24.86
P160140250P3D/65*	160.00	+0.20 / -0.00	160.00	140.00	25.00	50.00	140.00	151.40	158.50	25.00	12.50	164.32
P180160250P3D*	180.00	+0.20 / -0.00	180.00	160.00	25.00	50.00	160.00	171.40	178.50	25.00	12.50	28.40
P180160250P3D/65*	180.00	+0.20 / -0.00	180.00	160.00	25.00	50.00	160.00	171.40	178.50	25.00	12.50	182.55
P200180250P3D*	200.00	+0.20 / -0.00	200.00	180.00	25.00	50.00	180.00	191.40	198.50	25.00	12.50	35.48
P200180250P3D/65*	200.00	+0.20 / -0.00	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

PTFE/Nitrile/Nylon





Temperature: -20/220F [-29/104C] **Pressure: 6500 PSI [450 BAR]**

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	81.15
P050040075P4A	50.00	+0.08 / -0.00	50.00	40.00	7.50	50.00	+0.08 / -0.00	40.00	+0.00 / -0.20	8.00	+0.20 / -0.00	41.48
P055041085P4A	55.00	+0.08 / -0.00	55.00	41.00	8.50	55.00	+0.08 / -0.00	41.00	+0.00 / -0.20	9.00	+0.20 / -0.00	36.24
P056045080P4A*	56.00	+0.08 / -0.00	56.00	45.00	8.00	56.00	+0.08 / -0.00	45.00	+0.00 / -0.20	8.50	+0.20 / -0.00	48.50
P060046085P4A	60.00	+0.08 / -0.00	60.00	46.00	8.50	60.00	+0.08 / -0.00	46.00	+0.00 / -0.20	9.00	+0.20 / -0.00	40.38
P063048105P4A	63.00	+0.08 / -0.00	63.00	48.00	10.50	63.00	+0.08 / -0.00	48.00	+0.00 / -0.20	11.00	+0.20 / -0.00	27.43
P063053075P4A	63.00	+0.08 / -0.00	63.00	53.00	7.50	63.00	+0.08 / -0.00	53.00	+0.00 / -0.20	8.00	+0.20 / -0.00	58.61
P065050105P4A	65.00	+0.08 / -0.00	65.00	50.00	10.50	65.00	+0.08 / -0.00	50.00	+0.00 / -0.20	11.00	+0.20 / -0.00	24.17
P065051085P4A*	65.00	+0.08 / -0.00	65.00	51.00	8.50	65.00	+0.08 / -0.00	51.00	+0.00 / -0.20	9.00	+0.20 / -0.00	63.17
P070055105P4A	70.00	+0.08 / -0.00	70.00	55.00	10.50	70.00	+0.08 / -0.00	55.00	+0.00 / -0.20	11.00	+0.20 / -0.00	40.38
P070055120P4A*	70.00	+0.08 / -0.00	70.00	55.00	12.00	70.00	+0.08 / -0.00	55.00	+0.00 / -0.20	12.50	+0.20 / -0.00	56.65
P070060075P4A	70.00	+0.08 / -0.00	70.00	60.00	7.50	70.00	+0.08 / -0.00	60.00	+0.00 / -0.20	8.00	+0.20 / -0.00	39.31
P075060105P4A	75.00	+0.08 / -0.00	75.00	60.00	10.50	75.00	+0.08 / -0.00	60.00	+0.00 / -0.20	11.00	+0.20 / -0.00	39.15
P075063086P4A*	75.00	+0.08 / -0.00	75.00	63.00	8.60	75.00	+0.08 / -0.00	63.00	+0.00 / -0.20	9.10	+0.20 / -0.00	42.03
P080065105P4A	80.00	+0.10 / -0.00	80.00	65.00	10.50	80.00	+0.10 / -0.00	65.00	+0.00 / -0.20	11.00	+0.20 / -0.00	43.89
P080065115P4A	80.00	+0.10 / -0.00	80.00	65.00	11.50	80.00	+0.10 / -0.00	65.00	+0.00 / -0.20	12.00	+0.20 / -0.00	43.62
P085070105P4A	85.00	+0.10 / -0.00	85.00	70.00	10.50	85.00	+0.10 / -0.00	70.00	+0.00 / -0.20	11.00	+0.20 / -0.00	50.45
P090075105P4A	90.00	+0.10 / -0.00	90.00	75.00	10.50	90.00	+0.10 / -0.00	75.00	+0.00 / -0.20	11.00	+0.20 / -0.00	49.45
P090075115P4A	90.00	+0.10 / -0.00	90.00	75.00	11.50	90.00	+0.10 / -0.00	75.00	+0.00 / -0.20	12.00	+0.20 / -0.00	47.64
P090075120P4A	90.00	+0.10 / -0.00	90.00	75.00	12.00	90.00	+0.10 / -0.00	75.00	+0.00 / -0.20	12.50	+0.20 / -0.00	64.37
P095080105P4A	95.00	+0.10 / -0.00	95.00	80.00	10.50	95.00	+0.10 / -0.00	80.00	+0.00 / -0.20	11.00	+0.20 / -0.00	50.45
P095080120P4A	95.00	+0.10 / -0.00	95.00	80.00	12.00	95.00	+0.10 / -0.00	80.00	+0.00 / -0.20	12.50	+0.20 / -0.00	52.79
P100085120P4A	100.00	+0.10 / -0.00	100.00	85.00	12.00	100.00	+0.10 / -0.00	85.00	+0.00 / -0.20	12.50	+0.20 / -0.00	53.41
P105090120P4A	105.00	+0.10 / -0.00	105.00	90.00	12.00	105.00	+0.10 / -0.00	90.00	+0.00 / -0.20	12.50	+0.20 / -0.00	55.84
P110095120P4A	110.00	+0.10 / -0.00	110.00	95.00	12.00	110.00	+0.10 / -0.00	95.00	+0.00 / -0.20	12.50	+0.20 / -0.00	56.85
P115100120P4A	115.00	+0.10 / -0.00	115.00	100.00	12.00	115.00	+0.10 / -0.00	100.00	+0.00 / -0.20	12.50	+0.20 / -0.00	62.81
P120100155P4A	120.00	+0.10 / -0.00	120.00	100.00	15.50	120.00	+0.10 / -0.00	100.00	+0.00 / -0.20	16.00	+0.20 / -0.00	83.43
P120105120P4A	120.00	+0.10 / -0.00	120.00	105.00	12.00	120.00	+0.10 / -0.00	105.00	+0.00 / -0.20	12.50	+0.20 / -0.00	59.24
P125102155P4A	125.00	+0.10 / -0.00	125.00	102.00	15.50	125.00	+0.10 / -0.00	102.00	+0.00 / -0.20	16.00	+0.20 / -0.00	65.87
P125105155P4A	125.00	+0.10 / -0.00	125.00	105.00	15.50	125.00	+0.10 / -0.00	105.00	+0.00 / -0.20	16.00	+0.20 / -0.00	90.18
P125108155P4A	125.00	+0.10 / -0.00	125.00	108.00	15.50	125.00	+0.10 / -0.00	108.00	+0.00 / -0.20	16.00	+0.20 / -0.00	85.47
P130107155P4A	130.00	+0.10 / -0.00	130.00	107.00	15.50	130.00	+0.10 / -0.00	107.00	+0.00 / -0.20	16.00	+0.20 / -0.00	71.17
P130110155P4A	130.00	+0.10 / -0.00	130.00	110.00	15.50	130.00	+0.10 / -0.00	110.00	+0.00 / -0.20	16.00	+0.20 / -0.00	82.63
P135112155P4A	135.00	+0.10 / -0.00	135.00	112.00	15.50	135.00	+0.10 / -0.00	112.00	+0.00 / -0.20	16.00	+0.20 / -0.00	75.73
P140117155P4A	140.00	+0.10 / -0.00	140.00	117.00	15.50	140.00	+0.10 / -0.00	117.00	+0.00 / -0.20	16.00	+0.20 / -0.00	80.61
P140120155P4A	140.00	+0.10 / -0.00	140.00	120.00	15.50	140.00	+0.10 / -0.00	120.00	+0.00 / -0.20	16.00	+0.20 / -0.00	102.24
P145122155P4A	145.00	+0.10 / -0.00	145.00	122.00	15.50	145.00	+0.10 / -0.00	122.00	+0.00 / -0.20	16.00	+0.20 / -0.00	81.19
P150127155P4A	150.00	+0.10 / -0.00	150.00	127.00	15.50	150.00	+0.10 / -0.00	127.00	+0.00 / -0.20	16.00	+0.20 / -0.00	87.67

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

P4A SERIES - PTFE/NBR/NYLON

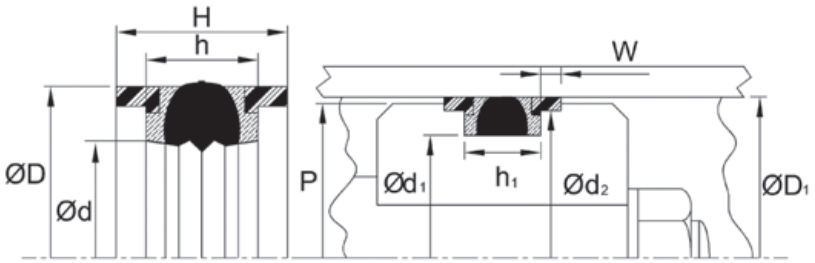
Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
P155132155P4A*	155.00	+0.10 / -0.00	155.00	132.00	15.50	155.00	+0.10 / -0.00	132.00	+0.00 / -0.20	16.00	+0.20 / -0.00	67.89
P160137155P4A	160.00	+0.10 / -0.00	160.00	137.00	15.50	160.00	+0.10 / -0.00	137.00	+0.00 / -0.20	16.00	+0.20 / -0.00	99.59
P160140155P4A	160.00	+0.10 / -0.00	160.00	140.00	15.50	160.00	+0.10 / -0.00	140.00	+0.00 / -0.20	16.00	+0.20 / -0.00	91.44
P160145120P4A	160.00	+0.10 / -0.00	160.00	145.00	12.00	160.00	+0.10 / -0.00	145.00	+0.00 / -0.20	12.50	+0.20 / -0.00	115.54
P165142155P4A	165.00	+0.10 / -0.00	165.00	142.00	15.50	165.00	+0.10 / -0.00	142.00	+0.00 / -0.20	16.00	+0.20 / -0.00	110.13
P170147155P4A	170.00	+0.10 / -0.00	170.00	147.00	15.50	170.00	+0.10 / -0.00	147.00	+0.00 / -0.20	16.00	+0.20 / -0.00	112.85
P170155140P4A/VOLVO	170.00	+0.10 / -0.00	170.00	155.00	O/R	170.00	+0.10 / -0.00	155.00	+0.00 / -0.20	O/R	+0.20 / -0.00	229.48
P175152155P4A*	175.00	+0.10 / -0.00	175.00	152.00	15.50	175.00	+0.10 / -0.00	152.00	+0.00 / -0.20	16.00	+0.20 / -0.00	87.03
P180157155P4A	180.00	+0.13 / -0.00	180.00	157.00	15.50	180.00	+0.13 / -0.00	157.00	+0.00 / -0.20	16.00	+0.20 / -0.00	104.38
P180160155P4A	180.00	+0.13 / -0.00	180.00	160.00	15.50	180.00	+0.13 / -0.00	160.00	+0.00 / -0.20	16.00	+0.20 / -0.00	102.39
P185162155P4A	185.00	+0.13 / -0.00	185.00	162.00	15.50	185.00	+0.13 / -0.00	162.00	+0.00 / -0.20	16.00	+0.20 / -0.00	109.14
P190167155P4A	190.00	+0.13 / -0.00	190.00	167.00	15.50	190.00	+0.13 / -0.00	167.00	+0.00 / -0.20	16.00	+0.20 / -0.00	131.75
P190175140P4A/VOLVO	190.00	+0.13 / -0.00	190.00	175.00	O/R	190.00	+0.13 / -0.00	175.00	+0.00 / -0.20	O/R	+0.20 / -0.00	248.94
P195172155P4A	195.00	+0.13 / -0.00	195.00	172.00	15.50	195.00	+0.13 / -0.00	172.00	+0.00 / -0.20	16.00	+0.20 / -0.00	105.43
P200177155P4A	200.00	+0.13 / -0.00	200.00	177.00	15.50	200.00	+0.13 / -0.00	177.00	+0.00 / -0.20	16.00	+0.20 / -0.00	123.27
P210187155P4A	210.00	+0.13 / -0.00	210.00	187.00	15.50	210.00	+0.13 / -0.00	187.00	+0.00 / -0.20	16.00	+0.20 / -0.00	112.60
P220197155P4A	220.00	+0.13 / -0.00	220.00	197.00	15.50	220.00	+0.13 / -0.00	197.00	+0.00 / -0.20	16.00	+0.20 / -0.00	118.28
P225194240P4A	225.00	+0.13 / -0.00	225.00	194.00	23.50	225.00	+0.13 / -0.00	194.00	+0.00 / -0.20	24.00	+0.20 / -0.00	806.10
P225202155P4A	225.00	+0.13 / -0.00	225.00	202.00	15.50	225.00	+0.13 / -0.00	202.00	+0.00 / -0.20	16.00	+0.20 / -0.00	156.98
P230207155P4A*	230.00	+0.13 / -0.00	230.00	207.00	15.50	230.00	+0.13 / -0.00	207.00	+0.00 / -0.20	16.00	+0.20 / -0.00	126.67
P230210155P4A	230.00	+0.13 / -0.00	230.00	210.00	15.50	230.00	+0.13 / -0.00	210.00	+0.00 / -0.20	16.00	+0.20 / -0.00	250.42
P240217155P4A*	240.00	+0.13 / -0.00	240.00	217.00	15.50	240.00	+0.13 / -0.00	217.00	+0.00 / -0.20	16.00	+0.20 / -0.00	127.21
P250222170P4A	250.00	+0.13 / -0.00	250.00	222.00	17.00	250.00	+0.13 / -0.00	222.00	+0.00 / -0.20	17.50	+0.20 / -0.00	167.68
P250230160P4A/VOLVO*	250.00	+0.13 / -0.00	250.00	230.00	O/R	250.00	+0.13 / -0.00	230.00	+0.00 / -0.20	O/R	+0.20 / -0.00	367.49
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	167.68
P260240160P4A/VOLVO	260.00	+0.13 / -0.00	260.00	240.00	O/R	260.00	+0.13 / -0.00	240.00	+0.00 / -0.20	O/R	+0.20 / -0.00	367.49
P270242170P4A*	270.00	+0.13 / -0.00	270.00	242.00	17.00	270.00	+0.13 / -0.00	242.00	+0.00 / -0.20	17.50	+0.20 / -0.00	194.13
P280252170P4A	280.00	+0.15 / -0.00	280.00	252.00	17.00	280.00	+0.15 / -0.00	252.00	+0.00 / -0.20	17.50	+0.20 / -0.00	188.02
P300272170P4A	300.00	+0.15 / -0.00	300.00	272.00	17.00	300.00	+0.15 / -0.00	272.00	+0.00 / -0.20	17.50	+0.20 / -0.00	249.58
P320292170P4A	320.00	+0.15 / -0.00	320.00	292.00	17.00	320.00	+0.15 / -0.00	292.00	+0.00 / -0.20	17.50	+0.20 / -0.00	327.19
P350322170P4A	350.00	+0.15 / -0.00	350.00	322.00	17.00	350.00	+0.15 / -0.00	322.00	+0.00 / -0.20	17.50	+0.20 / -0.00	726.05
P400372170P4A*	400.00	+0.15 / -0.00	400.00	372.00	17.00	400.00	+0.15 / -0.00	372.00	+0.00 / -0.20	17.50	+0.20 / -0.00	466.07

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

P5B - Piston Seals

Nitrile/Polyamide/Polyester

SOLID / SPLIT PISTON



Temperature: -22/212F [-30/100C] **Pressure: 6000 PSI [415 BAR]**

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.00/ -.08	+.12/ -.12	+.10/ -.10	+.20/ -.00	+.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	9.36
P022013135P5B*	22.00	+0.08 / -0.00	22.00	13.00	13.50	17.70	13.00	19.00	21.00	13.50	2.10	9.36
P025015125P5B*	25.00	+0.08 / -0.00	25.00	15.00	12.50	20.50	15.00	22.00	24.00	12.50	4.00	9.36
P025015164P5B*	25.00	+0.08 / -0.00	25.00	15.00	16.40	29.20	15.00	21.45	23.50	16.40	6.40	9.36
P025016135P5B*	25.00	+0.08 / -0.00	25.00	16.00	13.50	17.70	16.00	22.00	24.00	13.50	2.10	9.36
P025017135P5B	25.00	+0.08 / -0.00	25.00	17.00	13.50	19.90	17.00	21.00	24.40	13.50	3.20	9.36
P028019135P5B*	28.00	+0.08 / -0.00	28.00	19.00	13.50	17.70	19.00	25.00	27.00	13.50	2.10	9.63
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	9.63
P030021135P5B*	30.00	+0.08 / -0.00	30.00	21.00	13.50	17.70	21.00	27.00	29.00	13.50	2.10	9.63
P030022135P5B*	30.00	+0.08 / -0.00	30.00	22.00	13.50	19.90	22.00	26.00	29.40	13.50	3.20	11.65
P032022125P5B	32.00	+0.08 / -0.00	32.00	22.00	12.50	20.50	22.00	29.00	31.00	12.50	4.00	14.60
P032022155P5B	32.00	+0.08 / -0.00	32.00	22.00	15.50	20.70	22.00	28.00	31.00	15.50	2.60	13.64
P032022164P5B	32.00	+0.08 / -0.00	32.00	22.00	16.40	29.20	22.00	28.50	30.50	16.40	6.40	14.60
P032024100P5B	32.00	+0.08 / -0.00	32.00	24.00	10.00	18.00	24.00	29.00	31.00	10.00	4.00	13.63
P032024155P5B*	32.00	+0.08 / -0.00	32.00	24.00	15.50	21.90	24.00	28.00	31.40	15.50	3.20	13.64
P035025155P5B*	35.00	+0.08 / -0.00	35.00	25.00	15.50	20.70	25.00	31.00	34.00	15.50	2.60	15.13
P035025164P5B	35.00	+0.08 / -0.00	35.00	25.00	16.40	29.20	25.00	31.40	33.50	16.40	6.40	10.78
P035027155P5B	35.00	+0.08 / -0.00	35.00	27.00	15.50	21.90	27.00	31.00	34.40	15.50	3.20	12.80
P036026155P5B*	36.00	+0.08 / -0.00	36.00	26.00	15.50	20.70	26.00	32.00	35.00	15.50	2.60	11.54
P040024184P5B	40.00	+0.08 / -0.00	40.00	24.00	18.40	31.20	24.00	35.40	38.70	18.40	6.40	11.69
P040026155P5B	40.00	+0.08 / -0.00	40.00	26.00	15.50	20.70	26.00	36.00	39.00	15.50	2.60	16.12
P040030100P5B	40.00	+0.08 / -0.00	40.00	30.00	10.00	20.00	30.00	36.50	39.00	10.00	5.00	46.33
P040030113P5B	40.00	+0.08 / -0.00	40.00	30.00	11.30	19.30	30.00	35.40	38.00	11.30	4.00	14.48
P040030125P5B	40.00	+0.08 / -0.00	40.00	30.00	12.50	20.50	30.00	37.00	39.00	12.50	4.00	16.12
P040030164P5B	40.00	+0.08 / -0.00	40.00	30.00	16.40	29.20	30.00	35.40	38.70	16.40	6.40	16.12
P040032100P5B	40.00	+0.08 / -0.00	40.00	32.00	10.00	18.00	32.00	37.00	39.00	10.00	4.00	15.48
P040032155P5B	40.00	+0.08 / -0.00	40.00	32.00	15.50	21.90	32.00	36.00	39.40	15.50	3.20	16.12
P042028155P5B*	42.00	+0.08 / -0.00	42.00	28.00	15.50	20.70	28.00	38.00	41.00	15.50	2.60	13.46
P045029184P5B*	45.00	+0.08 / -0.00	45.00	29.00	18.40	31.20	29.00	40.40	43.70	18.40	6.40	16.78
P045031155P5B	45.00	+0.08 / -0.00	45.00	31.00	15.50	20.70	31.00	41.00	44.00	15.50	2.60	16.78
P045035164P5B	45.00	+0.08 / -0.00	45.00	35.00	16.40	29.20	35.00	40.40	43.50	16.40	6.40	16.74
P050034184P5B	50.00	+0.08 / -0.00	50.00	34.00	18.40	31.20	34.00	45.40	48.70	18.40	6.40	17.16
P050034205P5B	50.00	+0.08 / -0.00	50.00	34.00	20.50	26.70	34.00	46.00	49.00	20.50	3.10	17.70
P050034320P5B*	50.00	+0.08 / -0.00	50.00	34.00	32.00	44.70	34.00	43.77	47.85	32.00	6.35	22.52
P050035200P5B	50.00	+0.08 / -0.00	50.00	35.00	20.00	30.00	35.00	46.00	48.50	20.00	5.00	23.20
P050038205P5B	50.00	+0.08 / -0.00	50.00	38.00	20.50	28.90	38.00	46.00	49.40	20.50	4.20	17.16
P050040125P5B	50.00	+0.08 / -0.00	50.00	40.00	12.50	20.50	40.00	47.00	49.00	12.50	4.00	17.16
P055039184P5B	55.00	+0.08 / -0.00	55.00	39.00	18.40	31.20	39.00	50.40	53.70	18.40	6.40	19.00

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

P5B SERIES - NBR/PA/POLYESTER

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.00/ -.08	+.12/ -.12	+.10/ -.10	+.20/ -.00	+.10/ -.00	
P055039205P5B	55.00	+0.08 / -0.00	55.00	39.00	20.50	26.70	39.00	51.00	54.00	20.50	3.10	18.28
P055040320P5B*	55.00	+0.08 / -0.00	55.00	40.00	32.00	44.70	40.00	48.77	52.85	32.00	6.35	34.06
P055045125P5B	55.00	+0.08 / -0.00	55.00	45.00	12.50	20.50	45.00	52.00	54.00	12.50	4.00	14.16
P056040205P5B*	56.00	+0.08 / -0.00	56.00	40.00	20.50	26.70	40.00	52.00	55.00	20.50	3.10	15.93
P060044184P5B	60.00	+0.08 / -0.00	60.00	44.00	18.40	31.20	44.00	55.40	58.70	18.40	6.40	20.24
P060044205P5B	60.00	+0.08 / -0.00	60.00	44.00	20.50	26.70	44.00	56.00	59.00	20.50	3.10	10.69
P060044320P5B*	60.00	+0.08 / -0.00	60.00	44.00	32.00	44.70	44.00	53.80	57.80	32.00	6.35	23.77
P060048205P5B	60.00	+0.08 / -0.00	60.00	48.00	20.50	28.90	48.00	56.00	59.40	20.50	4.20	20.24
P063047184P5B	63.00	+0.08 / -0.00	63.00	47.00	18.40	31.20	47.00	58.40	61.50	18.40	6.40	12.02
P063047194P5B	63.00	+0.08 / -0.00	63.00	47.00	19.40	32.20	47.00	58.40	61.70	19.40	6.40	21.94
P063047205P5B	63.00	+0.08 / -0.00	63.00	47.00	20.50	26.70	47.00	59.00	62.00	20.50	3.10	27.92
P063048200P5B	63.00	+0.08 / -0.00	63.00	48.00	20.00	30.00	48.00	59.00	61.50	20.00	5.00	15.93
P063051205P5B	63.00	+0.08 / -0.00	63.00	51.00	20.50	28.90	51.00	59.00	62.40	20.50	4.20	21.94
P063053125P5B	63.00	+0.08 / -0.00	63.00	53.00	12.50	20.50	53.00	60.00	62.00	12.50	4.00	21.94
P065049205P5B	65.00	+0.08 / -0.00	65.00	49.00	20.50	26.70	49.00	61.00	64.00	20.50	3.10	13.70
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	27.45
P065050184P5B	65.00	+0.08 / -0.00	65.00	50.00	18.40	31.20	50.00	60.40	63.70	18.40	6.40	21.98
P070050224P5B	70.00	+0.08 / -0.00	70.00	50.00	22.40	35.20	50.00	64.20	68.30	22.40	6.40	22.48
P070050350P5B*	70.00	+0.08 / -0.00	70.00	50.00	35.00	54.04	50.00	62.61	67.54	35.00	9.50	39.15
P070054205P5B	70.00	+0.08 / -0.00	70.00	54.00	20.50	26.70	54.00	66.00	69.00	20.50	3.10	27.72
P070055200P5B	70.00	+0.08 / -0.00	70.00	55.00	20.00	30.00	55.00	66.00	68.50	20.00	5.00	24.88
P070058205P5B	70.00	+0.08 / -0.00	70.00	58.00	20.50	28.90	58.00	66.00	69.40	20.50	4.20	22.48
P075055224P5B	75.00	+0.08 / -0.00	75.00	55.00	22.40	35.20	55.00	69.20	73.30	22.40	6.40	23.33
P075055350P5B	75.00	+0.08 / -0.00	75.00	55.00	35.00	54.04	55.00	67.70	72.54	35.00	9.50	39.15
P075059205P5B	75.00	+0.08 / -0.00	75.00	59.00	20.50	26.70	59.00	71.00	74.00	20.50	3.10	19.24
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	25.47
P080060224P5B/T53	80.00	+0.10 / -0.00	80.00	60.00	22.40	35.20	60.00	74.20	78.30	22.40	6.40	86.36
P080060250P5B	80.00	+0.10 / -0.00	80.00	60.00	25.00	37.60	60.00	75.00	78.00	25.00	6.30	25.47
P080060350P5B	80.00	+0.10 / -0.00	80.00	60.00	35.00	54.04	60.00	72.62	77.54	35.00	9.50	25.46
P080062225P5B	80.00	+0.10 / -0.00	80.00	62.00	22.50	29.70	62.00	76.00	79.00	22.50	3.60	25.47
P080065200P5B	80.00	+0.10 / -0.00	80.00	65.00	20.00	30.00	65.00	76.00	78.50	20.00	5.00	19.31
P080066225P5B	80.00	+0.10 / -0.00	80.00	66.00	22.50	32.90	66.00	76.00	79.40	22.50	5.20	25.47
P080070113P5B	80.00	+0.10 / -0.00	80.00	70.00	11.30	19.30	70.00	75.50	78.50	11.30	4.00	36.95
P085065224P5B	85.00	+0.10 / -0.00	85.00	65.00	22.40	35.20	65.00	79.20	83.30	22.40	6.40	26.47
P085065350P5B	85.00	+0.10 / -0.00	85.00	65.00	35.00	54.04	65.00	77.62	82.54	35.00	9.50	42.69
P085075200P5B*	85.00	+0.10 / -0.00	85.00	75.00	20.00	28.00	75.00	81.00	83.34	20.00	4.00	23.34
P090070210P5B*	90.00	+0.10 / -0.00	90.00	70.00	21.00	33.00	70.00	84.15	88.31	21.00	6.40	36.29
P090070220P5B/T53	90.00	+0.10 / -0.00	90.00	70.00	22.00	34.70	70.00	84.20	88.00	22.00	6.35	87.01
P090070224P5B	90.00	+0.10 / -0.00	90.00	70.00	22.40	35.20	70.00	84.20	88.30	22.40	6.40	29.48
P090070350P5B	90.00	+0.10 / -0.00	90.00	70.00	35.00	54.04	70.00	82.58	87.55	35.00	9.50	46.22
P090072225P5B	90.00	+0.10 / -0.00	90.00	72.00	22.50	29.70	72.00	86.00	89.00	22.50	3.60	20.98
P090075200P5B	90.00	+0.10 / -0.00	90.00	75.00	20.00	30.00	75.00	86.00	88.50	20.00	5.00	53.18
P090076224P5B	90.00	+0.10 / -0.00	90.00	76.00	22.40	32.90	76.00	86.00	89.40	22.50	5.20	29.48
P092082125P5B	92.00	+0.10 / -0.00	92.00	82.00	12.50	25.30	82.00	88.04	90.80	12.50	6.40	39.87
P095075224P5B	95.00	+0.10 / -0.00	95.00	75.00	22.40	35.20	75.00	89.00	93.30	22.40	6.40	41.22
P095075350P5B*	95.00	+0.10 / -0.00	95.00	75.00	35.00	54.04	75.00	87.60	92.50	35.00	9.50	39.13
P100075224P5B	100.00	+0.10 / -0.00	100.00	75.00	22.40	35.20	75.00	93.20	98.00	22.40	6.40	31.84
P100080250P5B	100.00	+0.10 / -0.00	100.00	80.00	25.00	37.70	80.00	95.00	98.00	25.00	6.35	31.84

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

P5B SERIES - NBR/PA/POLYESTER

Ref.Number	Bore diameter	Tol.	Nominal Seal Dimensions D	d	h	H	Housing Dimensions d1 +.00/ -.08	d2 +.12/ -.12	P +.10/ -.10	h1 +.20/ -.00	W +.10/ -.00	$
P100080254P5B	100.00	+0.10 / -0.00	100.00	80.00	25.40	38.10	80.00	95.00	98.00	25.40	6.35	26.28
P100080350P5B	100.00	+0.10 / -0.00	100.00	80.00	35.00	54.04	80.00	92.61	97.51	35.00	9.50	49.76
P100082225P5B	100.00	+0.10 / -0.00	100.00	82.00	22.50	29.70	82.00	96.00	99.00	22.50	3.60	23.89
P100085200P5B	100.00	+0.10 / -0.00	100.00	85.00	20.00	30.00	85.00	96.00	98.50	20.00	5.00	42.23
P100086200P5B*	100.00	+0.10 / -0.00	100.00	86.00	20.00	30.00	86.00	96.00	99.40	20.00	5.00	26.30
P100086225P5B	100.00	+0.10 / -0.00	100.00	86.00	22.50	32.90	86.00	96.00	99.40	22.50	5.20	23.89
P105080224P5B	105.00	+0.10 / -0.00	105.00	80.00	22.40	35.20	80.00	98.10	103.00	22.40	6.40	33.46
P105092143P5B	105.00	+0.10 / -0.00	105.00	92.00	14.30	27.10	92.00	98.80	103.40	14.30	5.35	48.22
P110085224P5B	110.00	+0.10 / -0.00	110.00	85.00	22.40	35.20	85.00	103.10	108.00	22.40	6.40	35.22
P110085254P5B	110.00	+0.10 / -0.00	110.00	85.00	25.40	38.20	85.00	103.10	108.00	25.40	6.40	35.22
P110085450P5B*	110.00	+0.10 / -0.00	110.00	85.00	45.00	70.40	85.00	101.78	107.31	45.00	12.70	56.84
P110090253P5B*	110.00	+0.10 / -0.00	110.00	90.00	25.30	38.10	90.00	104.10	108.30	25.30	6.40	28.20
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	56.84
P110092225P5B	110.00	+0.10 / -0.00	110.00	92.00	22.50	29.70	92.00	106.00	109.00	22.50	3.60	24.99
P110095200P5B	110.00	+0.10 / -0.00	110.00	95.00	20.00	30.00	95.00	106.00	108.50	20.00	5.00	25.43
P110096225P5B	110.00	+0.10 / -0.00	110.00	96.00	22.50	32.90	96.00	106.00	109.40	22.50	5.20	24.98
P115090224P5B	115.00	+0.10 / -0.00	115.00	90.00	22.40	35.20	90.00	108.10	113.00	22.40	6.40	36.59
P115090450P5B*	115.00	+0.10 / -0.00	115.00	90.00	45.00	70.40	90.00	106.82	112.33	45.00	12.70	63.93
P115097224P5B*	115.00	+0.10 / -0.00	115.00	97.00	22.40	29.70	97.00	111.00	114.00	22.40	3.60	37.50
P120095224P5B	120.00	+0.10 / -0.00	120.00	95.00	22.40	35.20	95.00	113.00	118.00	22.40	6.40	37.48
P120095450P5B*	120.00	+0.10 / -0.00	120.00	95.00	45.00	70.40	95.00	111.82	117.33	45.00	12.70	120.49
P120100350P5B	120.00	+0.10 / -0.00	120.00	100.00	35.00	54.04	100.00	112.80	117.51	35.00	9.50	63.93
P120106225P5B	120.00	+0.10 / -0.00	120.00	106.00	22.50	32.90	106.00	116.00	119.40	22.50	5.20	37.88
P125100254P5B	125.00	+0.10 / -0.00	125.00	100.00	25.40	38.20	100.00	118.10	123.00	25.40	6.40	38.21
P125100254P5B/T53	125.00	+0.10 / -0.00	125.00	100.00	25.40	38.20	100.00	118.10	123.00	25.40	6.40	112.89
P125100320P5B	125.00	+0.10 / -0.00	125.00	100.00	32.00	52.00	100.00	119.00	123.00	32.00	10.00	32.95
P125100450P5B	125.00	+0.10 / -0.00	125.00	100.00	45.00	70.40	100.00	116.82	122.33	45.00	12.70	98.31
P125103265P5B	125.00	+0.10 / -0.00	125.00	103.00	26.50	36.70	103.00	121.00	124.00	26.50	5.10	39.86
P125105250P5B	125.00	+0.10 / -0.00	125.00	105.00	25.00	37.70	105.00	120.00	123.00	25.00	6.35	29.99
P125105254P5B	125.00	+0.10 / -0.00	125.00	105.00	25.40	38.20	105.00	119.00	123.30	25.40	6.40	66.62
P125108265P5B	125.00	+0.10 / -0.00	125.00	108.00	26.50	40.90	108.00	121.00	124.40	26.50	7.20	39.86
P125112143P5B*	125.00	+0.10 / -0.00	125.00	112.00	14.30	26.30	112.00	118.80	123.50	14.30	6.00	40.22
P130105254P5B	130.00	+0.10 / -0.00	130.00	105.00	25.40	38.20	105.00	123.10	128.00	25.40	6.35	41.22
P130105254P5B-1	130.00	+0.10 / -0.00	130.00	105.00	25.40	44.04	105.00	122.60	127.50	25.40	9.50	33.69
P130105450P5B*	130.00	+0.10 / -0.00	130.00	105.00	45.00	70.40	105.00	121.82	127.33	45.00	12.70	101.87
P130110254P5B	130.00	+0.10 / -0.00	130.00	110.00	25.40	38.20	110.00	124.10	128.30	25.40	6.40	41.95
P130110350P5B	130.00	+0.10 / -0.00	130.00	110.00	35.00	54.04	110.00	122.70	127.30	35.00	9.50	161.94
P135110254P5B	135.00	+0.10 / -0.00	135.00	110.00	25.40	38.20	110.00	128.10	133.00	25.40	6.40	47.45
P135110254P5B-1	135.00	+0.10 / -0.00	135.00	110.00	25.40	44.40	110.00	127.60	132.50	25.40	9.50	34.99
P135110450P5B*	135.00	+0.10 / -0.00	135.00	110.00	45.00	70.40	110.00	126.82	132.33	45.00	12.70	71.01
P140115254P5B	140.00	+0.10 / -0.00	140.00	115.00	25.40	38.20	115.00	133.00	138.00	25.40	6.40	41.95
P140115254P5B-1	140.00	+0.10 / -0.00	140.00	115.00	25.40	44.40	115.00	132.60	137.50	25.40	9.50	41.95
P140115450P5B	140.00	+0.10 / -0.00	140.00	115.00	45.00	70.40	115.00	131.70	137.36	45.00	12.70	88.58
P140118265P5B	140.00	+0.10 / -0.00	140.00	118.00	26.50	36.70	118.00	136.00	139.00	26.50	5.10	25.72
P140120250P5B	140.00	+0.10 / -0.00	140.00	120.00	25.00	37.70	120.00	135.00	138.00	25.00	6.35	41.95
P140120350P5B	140.00	+0.10 / -0.00	140.00	120.00	35.00	54.04	120.00	132.70	137.30	35.00	9.50	72.61
P140123265P5B	140.00	+0.10 / -0.00	140.00	123.00	26.50	40.90	123.00	136.00	139.40	26.50	7.20	51.59
P145120254P5B	145.00	+0.10 / -0.00	145.00	120.00	25.40	38.20	120.00	137.60	142.50	25.40	6.40	117.33

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

P5B SERIES - NBR/PA/POLYESTER

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.00/ -.08	+.12/ -.12	+.10/ -.10	+.20/ -.00	+.10/ -.00	
P145120254P5B-1	145.00	+0.10 / -0.00	145.00	120.00	25.40	44.40	120.00	137.60	142.50	25.40	9.52	124.03
P145120450P5B*	145.00	+0.10 / -0.00	145.00	120.00	45.00	70.40	120.00	136.72	142.30	45.00	12.70	46.77
P150125254P5B	150.00	+0.10 / -0.00	150.00	125.00	25.40	38.20	125.00	143.00	148.00	25.40	6.40	36.07
P150125254P5B-1	150.00	+0.10 / -0.00	150.00	125.00	25.40	44.40	125.00	142.60	147.50	25.40	9.50	48.22
P150125450P5B	150.00	+0.10 / -0.00	150.00	125.00	45.00	70.40	125.00	141.71	147.32	45.00	12.70	93.07
P150128265P5B	150.00	+0.10 / -0.00	150.00	128.00	26.50	36.70	128.00	146.00	149.00	26.50	5.10	185.58
P150130254P5B*	150.00	+0.10 / -0.00	150.00	130.00	25.40	38.20	130.00	144.10	148.30	25.40	6.40	36.60
P150133265P5B*	150.00	+0.10 / -0.00	150.00	133.00	26.50	40.90	133.00	146.00	149.40	26.50	7.20	32.62
P155130254P5B*	155.00	+0.10 / -0.00	155.00	130.00	25.40	38.20	130.00	148.00	153.00	25.40	6.40	36.26
P155130254P5B-1	155.00	+0.10 / -0.00	155.00	130.00	25.40	44.40	130.00	147.60	152.50	25.40	9.50	41.64
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	55.44
P160130254P5B-1*	160.00	+0.10 / -0.00	160.00	130.00	25.40	44.04	130.00	152.60	157.50	25.00	9.50	60.61
P160135254P5B	160.00	+0.10 / -0.00	160.00	135.00	25.40	44.40	135.00	152.60	157.50	25.40	9.50	43.74
P160135320P5B	160.00	+0.10 / -0.00	160.00	135.00	32.00	52.00	135.00	154.00	158.00	32.00	10.00	142.19
P160135450P5B	160.00	+0.10 / -0.00	160.00	135.00	45.00	70.40	135.00	151.72	157.10	45.00	12.70	173.83
P160138265P5B	160.00	+0.10 / -0.00	160.00	138.00	26.50	36.70	138.00	156.00	159.00	26.50	5.10	200.73
P160140250P5B*	160.00	+0.10 / -0.00	160.00	140.00	25.00	37.60	140.00	155.00	158.00	25.00	6.30	55.44
P160143265P5B	160.00	+0.10 / -0.00	160.00	143.00	26.50	40.90	143.00	156.00	159.40	26.50	7.20	39.13
P165140254P5B	165.00	+0.10 / -0.00	165.00	140.00	25.40	44.04	140.00	157.60	162.50	25.40	9.50	75.18
P170140254P5B	170.00	+0.10 / -0.00	170.00	140.00	25.40	38.20	140.00	163.00	168.00	25.40	6.40	136.02
P170145254P5B*	170.00	+0.10 / -0.00	170.00	145.00	25.40	38.10	145.00	161.70	169.40	25.40	6.35	62.94
P170148265P5B*	170.00	+0.10 / -0.00	170.00	148.00	26.50	36.70	148.00	166.00	169.00	26.50	5.10	60.70
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	48.70
P180150354P5B	180.00	+0.13 / -0.00	180.00	150.00	35.40	48.10	150.00	173.00	177.32	35.40	6.35	72.68
P180150360P5B*	180.00	+0.13 / -0.00	180.00	150.00	36.00	61.00	150.00	172.00	178.00	36.00	12.50	79.01
P180155254P5B	180.00	+0.13 / -0.00	180.00	155.00	25.40	50.80	155.00	171.70	177.70	25.40	12.70	72.68
P180155450P5B	180.00	+0.13 / -0.00	180.00	155.00	45.00	70.40	155.00	171.70	177.10	45.00	12.70	103.84
P180158265P5B*	180.00	+0.13 / -0.00	180.00	158.00	26.50	36.70	158.00	176.00	179.00	26.50	5.10	185.02
P180163265P5B*	180.00	+0.13 / -0.00	180.00	163.00	26.50	40.90	163.00	176.00	179.40	26.50	7.20	60.27
P185160254P5B	185.00	+0.13 / -0.00	185.00	160.00	25.40	50.80	160.00	176.70	182.50	25.40	12.70	154.05
P185160450P5B*	185.00	+0.13 / -0.00	185.00	160.00	45.00	70.40	160.00	176.72	182.10	45.00	12.70	143.22
P190165254P5B	190.00	+0.13 / -0.00	190.00	165.00	25.40	50.80	165.00	181.70	187.00	25.40	12.70	80.91
P190165450P5B	190.00	+0.13 / -0.00	190.00	165.00	45.00	70.40	165.00	181.70	187.10	45.00	12.70	117.62
P190170305P5B*	190.00	+0.13 / -0.00	190.00	170.00	30.50	42.80	170.00	183.00	188.00	30.50	6.40	117.63
P195170254P5B	195.00	+0.13 / -0.00	195.00	170.00	25.40	50.80	170.00	186.70	192.00	25.40	12.70	81.83
P200170354P5B	200.00	+0.13 / -0.00	200.00	170.00	35.40	48.20	170.00	193.00	198.00	35.40	6.40	58.06
P200170360P5B	200.00	+0.13 / -0.00	200.00	170.00	36.00	61.00	170.00	192.00	197.00	36.00	12.50	45.03
P200175254P5B	200.00	+0.13 / -0.00	200.00	175.00	25.40	50.80	175.00	191.60	197.00	25.40	12.70	60.62
P200175315P5B	200.00	+0.13 / -0.00	200.00	175.00	31.50	44.70	175.00	196.00	199.40	31.50	6.60	93.94
P200175450P5B*	200.00	+0.13 / -0.00	200.00	175.00	45.00	70.40	175.00	191.70	197.33	45.00	12.70	140.28
P200180315P5B	200.00	+0.13 / -0.00	200.00	180.00	31.50	49.90	180.00	196.00	199.40	31.50	9.20	34.79
P210185254P5B	210.00	+0.13 / -0.00	210.00	185.00	25.40	50.80	185.00	201.60	207.00	25.40	12.70	58.61
P210185450P5B	210.00	+0.13 / -0.00	210.00	185.00	45.00	70.40	185.00	201.60	207.10	45.00	12.70	127.97
P220190354P5B	220.00	+0.13 / -0.00	220.00	190.00	35.40	48.10	190.00	213.50	217.90	35.40	6.40	93.93
P220190360P5B*	220.00	+0.13 / -0.00	220.00	190.00	36.00	61.10	190.00	212.00	217.00	36.00	12.50	93.89
P220195254P5B	220.00	+0.13 / -0.00	220.00	195.00	25.40	50.80	195.00	211.60	217.00	25.40	12.70	87.66
P220195450P5B*	220.00	+0.13 / -0.00	220.00	195.00	45.00	70.40	195.00	211.70	217.10	45.00	12.70	131.60
P225200254P5B*	225.00	+0.13 / -0.00	225.00	200.00	25.40	50.80	200.00	216.60	222.32	25.40	12.70	62.63

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

P5B SERIES - NBR/PA/POLYESTER

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	W	
		Tol.	D	d	h	H	+.00/ -.08	+.12/ -.12	+.10/ -.10	+.20/ -.00	+.10/ -.00	
P225200315P5B	225.00	+0.13 / -0.00	225.00	200.00	31.50	44.70	200.00	221.00	224.00	31.50	6.60	62.67
P230205254P5B*	230.00	+0.13 / -0.00	230.00	205.00	25.40	50.80	205.00	221.60	227.00	25.40	12.70	60.94
P230205450P5B*	230.00	+0.13 / -0.00	230.00	205.00	45.00	70.40	205.00	221.70	227.10	45.00	12.70	132.46
P240215254P5B	240.00	+0.13 / -0.00	240.00	215.00	25.40	50.80	215.00	231.60	237.00	25.40	12.70	43.57
P240215450P5B	240.00	+0.13 / -0.00	240.00	215.00	45.00	70.40	215.00	231.70	237.10	45.00	12.70	136.02
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	123.80
P250220360P5B*	250.00	+0.13 / -0.00	250.00	220.00	36.00	61.00	220.00	242.00	247.00	36.00	12.50	152.27
P250225254P5B	250.00	+0.13 / -0.00	250.00	225.00	25.40	50.80	225.00	241.60	247.00	25.40	12.70	82.16
P250225315P5B	250.00	+0.13 / -0.00	250.00	225.00	31.50	44.70	225.00	246.00	249.00	31.50	6.60	70.90
P250225450P5B	250.00	+0.13 / -0.00	250.00	225.00	45.00	70.40	225.00	241.70	247.10	45.00	12.70	129.15
P250230315P5B	250.00	+0.13 / -0.00	250.00	230.00	31.50	49.90	230.00	246,00	249,40	31.50	9.20	60.82
P260235354P5B*	260.00	+0.13 / -0.00	260.00	235.00	35.40	60.80	235.00	252.90	257.00	35.40	12.70	86.95
P260235450P5B	260.00	+0.13 / -0.00	260.00	235.00	45.00	70.40	235.00	251.70	257.10	45.00	12.70	152.91
P270245450P5B*	270.00	+0.13 / -0.00	270.00	245.00	45.00	70.40	245.00	261.72	267.10	45.00	12.70	190.22
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	196.56
P280250354P5B	280.00	+0.15 / -0.00	280.00	250.00	35.40	54.44	250.00	272.90	277.00	35.40	9.50	204.40
P280250364P5B*	280.00	+0.15 / -0.00	280.00	250.00	36.40	56.40	250.00	273.00	278.00	36.40	10.00	126.18
P280255450P5B*	280.00	+0.15 / -0.00	280.00	255.00	45.00	70.40	255.00	271.70	277.10	45.00	12.70	197.17
P290265450P5B*	290.00	+0.15 / -0.00	290.00	265.00	45.00	70.40	265.00	281.70	287.10	45.00	12.70	227.84
P300275315P5B*	300.00	+0.15 / -0.00	300.00	275.00	31.50	44.70	275.00	296.00	299.00	31.50	6.60	233.94
P300275450P5B	300.00	+0.15 / -0.00	300.00	275.00	45.00	70.40	275.00	291.72	297.10	45.00	12.70	237.82
P320290354P5B*	320.00	+0.15 / -0.00	320.00	290.00	35.40	54.40	290.00	312.40	317.00	35.40	9.52	155.81
P320290360P5B*	320.00	+0.15 / -0.00	320.00	290.00	36.00	61.40	290.00	312.00	317.00	36.00	12.50	155.81
P350325450P5B*	350.00	+0.15 / -0.00	350.00	325.00	45.00	70.40	325.00	341.72	347.10	45.00	12.70	384.19
P360335445P5B*	360.00	+0.15 / -0.00	360.00	335.00	44.50	69.90	335.00	351.76	357.33	44.50	12.70	381.72

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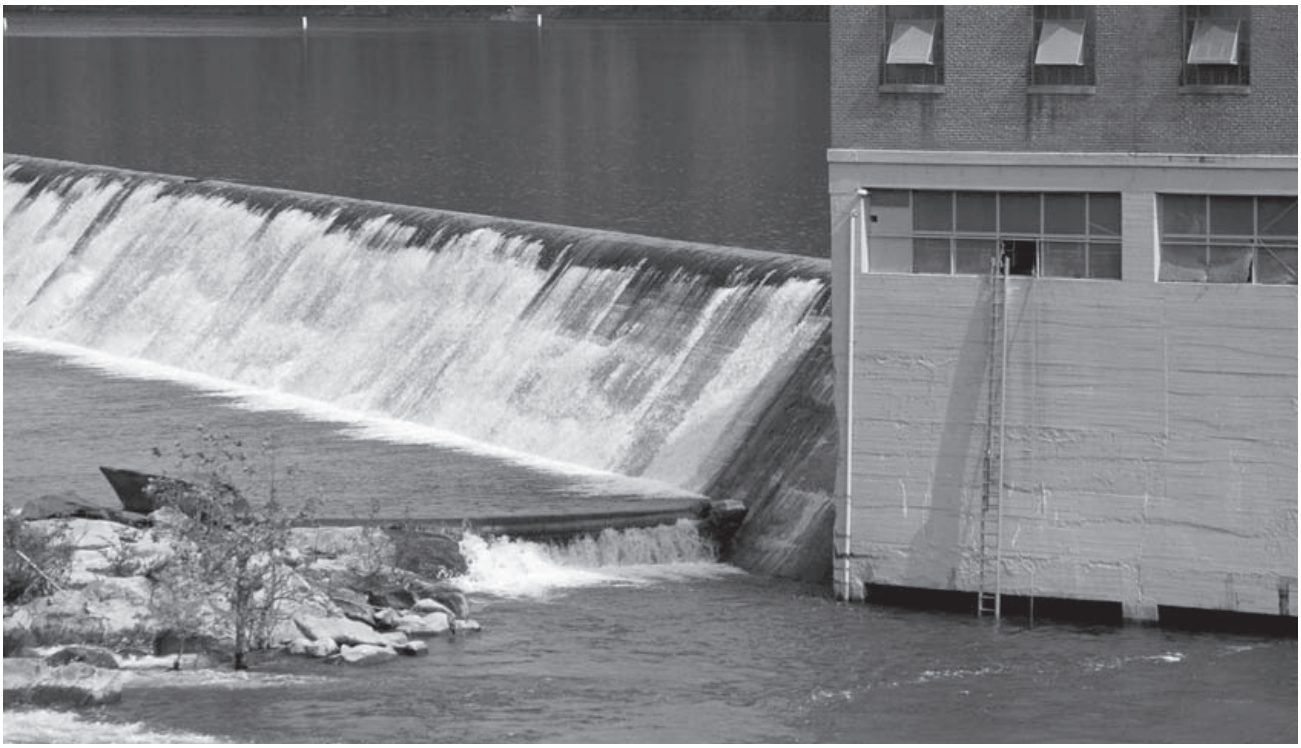
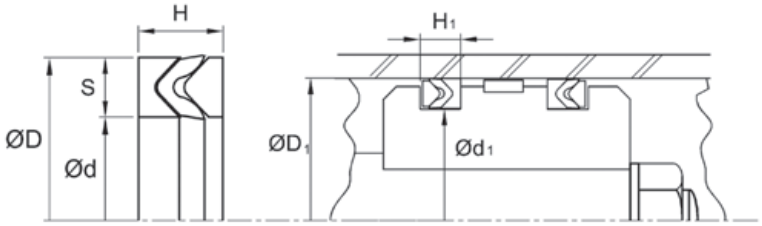


	V1	M	2
	V2-V3-V4-V5	M	3

V1 - Vee Pakings

Neofab/Polyamide



Temperature: -22/212F [-30/100C] **Pressure: 6000 PSI [413 Bar]**

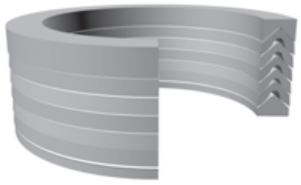
Ref.Number	Bore diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	D	d	H	D1	Tol.	d1	Tol.	H1	Tol.	
V010020089V1*	20.00	+0.08 / -0.00	20.00	10.00	8.90	20.00	+0.08 / -0.00	10.00	+0.08 / -0.00	9.30	+0.25 / -0.00	16.77
V012022089V1*	22.00	+0.08 / -0.00	22.00	12.00	8.90	22.00	+0.08 / -0.00	12.00	+0.08 / -0.00	9.30	+0.25 / -0.00	16.77
V015025089V1*	25.00	+0.08 / -0.00	25.00	15.00	8.90	25.00	+0.08 / -0.00	15.00	+0.08 / -0.00	9.30	+0.25 / -0.00	16.77
V018028089V1*	28.00	+0.08 / -0.00	28.00	18.00	8.90	28.00	+0.08 / -0.00	18.00	+0.08 / -0.00	9.30	+0.25 / -0.00	21.60
V020030089V1*	30.00	+0.08 / -0.00	30.00	20.00	8.90	30.00	+0.08 / -0.00	20.00	+0.08 / -0.00	9.30	+0.25 / -0.00	21.60
V020032104V1*	32.00	+0.08 / -0.00	32.00	20.00	10.40	32.00	+0.08 / -0.00	20.00	+0.08 / -0.00	10.90	+0.25 / -0.00	19.39
V023035104V1*	35.00	+0.08 / -0.00	35.00	23.00	10.40	35.00	+0.08 / -0.00	23.00	+0.08 / -0.00	10.90	+0.25 / -0.00	19.56
V024036104V1*	36.00	+0.08 / -0.00	36.00	24.00	10.40	36.00	+0.08 / -0.00	24.00	+0.08 / -0.00	10.90	+0.25 / -0.00	20.09
V025040110V1*	40.00	+0.08 / -0.00	40.00	25.00	11.00	40.00	+0.08 / -0.00	25.00	+0.08 / -0.00	11.50	+0.25 / -0.00	25.23
V027042110V1*	42.00	+0.08 / -0.00	42.00	27.00	11.00	42.00	+0.08 / -0.00	27.00	+0.08 / -0.00	11.50	+0.25 / -0.00	21.31
V030045110V1*	45.00	+0.08 / -0.00	45.00	30.00	11.00	45.00	+0.08 / -0.00	30.00	+0.08 / -0.00	11.50	+0.25 / -0.00	25.32
V035050110V1*	50.00	+0.08 / -0.00	50.00	35.00	11.00	50.00	+0.08 / -0.00	35.00	+0.10 / -0.00	11.50	+0.25 / -0.00	25.41
V040055110V1*	55.00	+0.08 / -0.00	55.00	40.00	11.00	55.00	+0.08 / -0.00	40.00	+0.10 / -0.00	11.50	+0.25 / -0.00	26.56
V041056110V1*	56.00	+0.08 / -0.00	56.00	41.00	11.00	56.00	+0.08 / -0.00	41.00	+0.10 / -0.00	11.50	+0.25 / -0.00	26.63
V045060110V1*	60.00	+0.08 / -0.00	60.00	45.00	11.00	60.00	+0.08 / -0.00	45.00	+0.10 / -0.00	11.50	+0.25 / -0.00	26.74
V048063125V1	63.00	+0.08 / -0.00	63.00	48.00	12.50	63.00	+0.08 / -0.00	48.00	+0.10 / -0.00	13.00	+0.25 / -0.00	26.74
V050070146V1*	70.00	+0.08 / -0.00	70.00	50.00	14.60	70.00	+0.08 / -0.00	50.00	+0.10 / -0.00	15.20	+0.25 / -0.00	28.77
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	+0.25 / -0.00	31.51
V070090206V1*	90.00	+0.10 / -0.00	90.00	70.00	20.60	90.00	+0.10 / -0.00	70.00	+0.12 / -0.00	21.20	+0.25 / -0.00	34.29
V080100206V1*	100.00	+0.10 / -0.00	100.00	80.00	20.60	100.00	+0.10 / -0.00	80.00	+0.12 / -0.00	21.20	+0.25 / -0.00	37.01
V090110206V1	110.00	+0.10 / -0.00	110.00	90.00	20.60	110.00	+0.10 / -0.00	90.00	+0.14 / -0.00	21.20	+0.25 / -0.00	39.27
V095115206V1*	115.00	+0.10 / -0.00	115.00	95.00	20.60	115.00	+0.10 / -0.00	95.00	+0.14 / -0.00	21.20	+0.25 / -0.00	42.34
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	47.22
V115140250V1*	140.00	+0.10 / -0.00	140.00	115.00	25.00	140.00	+0.10 / -0.00	115.00	+0.14 / -0.00	25.80	+0.25 / -0.00	55.17
V120150280V1*	150.00	+0.10 / -0.00	150.00	120.00	28.00	150.00	+0.10 / -0.00	120.00	+0.14 / -0.00	29.00	+0.25 / -0.00	63.70
V130160280V1	160.00	+0.10 / -0.00	160.00	130.00	28.00	160.00	+0.10 / -0.00	130.00	+0.16 / -0.00	29.00	+0.25 / -0.00	71.65
V150180305V1*	180.00	+0.13 / -0.00	180.00	150.00	30.50	180.00	+0.13 / -0.00	150.00	+0.16 / -0.00	31.50	+0.25 / -0.00	80.37
V165195325V1	195.00	+0.13 / -0.00	195.00	165.00	32.50	195.00	+0.13 / -0.00	165.00	+0.16 / -0.00	33.50	+0.25 / -0.00	107.28
V170200325V1	200.00	+0.13 / -0.00	200.00	170.00	32.50	200.00	+0.13 / -0.00	170.00	+0.16 / -0.00	33.50	+0.25 / -0.00	124.36
V190220325V1*	220.00	+0.13 / -0.00	220.00	190.00	32.50	220.00	+0.13 / -0.00	190.00	+0.18 / -0.00	33.50	+0.25 / -0.00	158.98
V195225325V1*	225.00	+0.13 / -0.00	225.00	195.00	32.50	225.00	+0.13 / -0.00	195.00	+0.18 / -0.00	33.50	+0.25 / -0.00	162.29
V220250325V1	250.00	+0.13 / -0.00	250.00	220.00	32.50	250.00	+0.13 / -0.00	220.00	+0.18 / -0.00	33.50	+0.25 / -0.00	203.34
V245275325V1*	275.00	+0.15 / -0.00	275.00	245.00	32.50	275.00	+0.15 / -0.00	245.00	+0.18 / -0.00	33.50	+0.25 / -0.00	231.09
V250280325V1	280.00	+0.15 / -0.00	280.00	250.00	32.50	280.00	+0.15 / -0.00	250.00	+0.21 / -0.00	33.50	+0.25 / -0.00	241.21
V270300325V1	300.00	+0.15 / -0.00	300.00	270.00	32.50	300.00	+0.15 / -0.00	270.00	+0.21 / -0.00	33.50	+0.25 / -0.00	257.57

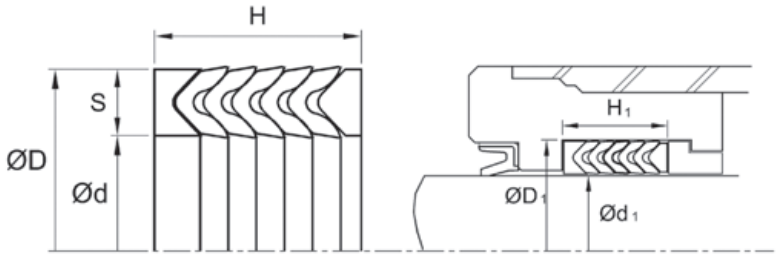
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

V2-V3-V4-V5

Neofab/Polyamide/Nitrile

Configuration: V2= 1-2-1 V4= 1-4-1
V3= 1-3-1 V5= 1-5-1





Temperature: -22/212F [-30/100C] **Pressure: 6000 PSI [413 Bar]**

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	42.82
V010020185V3*	10.00	+0.00 / -0.04	10.00	20.00	18.50	10.00	+0.00 / -0.04	20.00	+0.08 / -0.00	18.50	+0.25 / -0.00	24.44
V012022185V3*	12.00	+0.00 / -0.04	12.00	22.00	18.50	12.00	+0.00 / -0.04	22.00	+0.08 / -0.00	18.50	+0.25 / -0.00	24.44
V012025143V2*	12.00	+0.00 / -0.04	12.00	25.00	14.35	12.00	+0.00 / -0.04	25.00	+0.08 / -0.00	14.35	+0.25 / -0.00	36.01
V014024185V3*	14.00	+0.00 / -0.04	14.00	24.00	18.50	14.00	+0.00 / -0.04	24.00	+0.08 / -0.00	18.50	+0.25 / -0.00	24.44
V014025185V3*	14.00	+0.00 / -0.04	14.00	25.00	18.50	14.00	+0.00 / -0.04	25.00	+0.08 / -0.00	18.50	+0.25 / -0.00	36.01
V015025185V3*	15.00	+0.00 / -0.04	15.00	25.00	18.50	15.00	+0.00 / -0.04	25.00	+0.08 / -0.00	18.50	+0.25 / -0.00	24.44
V016026185V5*	16.00	+0.00 / -0.04	16.00	26.00	18.50	16.00	+0.00 / -0.04	26.00	+0.08 / -0.00	18.50	+0.25 / -0.00	24.44
V016029143V3*	16.00	+0.00 / -0.04	16.00	29.00	14.35	16.00	+0.00 / -0.04	29.00	+0.08 / -0.00	14.35	+0.25 / -0.00	36.01
V018028185V5*	18.00	+0.00 / -0.04	18.00	28.00	18.50	18.00	+0.00 / -0.04	28.00	+0.08 / -0.00	18.50	+0.25 / -0.00	24.44
V018031143V2*	18.00	+0.00 / -0.04	18.00	31.00	14.30	18.00	+0.00 / -0.04	31.00	+0.08 / -0.00	14.30	+0.25 / -0.00	38.26
V020030185V5	20.00	+0.00 / -0.04	20.00	30.00	18.50	20.00	+0.00 / -0.04	30.00	+0.08 / -0.00	18.50	+0.25 / -0.00	16.36
V020030215V3*	20.00	+0.00 / -0.04	20.00	30.00	21.50	20.00	+0.00 / -0.04	30.00	+0.08 / -0.00	21.50	+0.25 / -0.00	38.26
V020031175V2*	20.00	+0.00 / -0.04	20.00	31.00	17.50	20.00	+0.00 / -0.04	31.00	+0.08 / -0.00	17.50	+0.25 / -0.00	54.92
V020032225V5*	20.00	+0.00 / -0.04	20.00	32.00	22.50	20.00	+0.00 / -0.04	32.00	+0.10 / -0.00	22.50	+0.25 / -0.00	19.03
V020033143V2*	20.00	+0.00 / -0.04	20.00	33.00	14.30	20.00	+0.00 / -0.04	33.00	+0.10 / -0.00	14.30	+0.25 / -0.00	38.26
V022032185V5	22.00	+0.00 / -0.04	22.00	32.00	18.50	22.00	+0.00 / -0.04	32.00	+0.10 / -0.00	18.50	+0.25 / -0.00	27.15
V025035173V3	25.00	+0.00 / -0.04	25.00	35.00	17.30	25.00	+0.00 / -0.04	35.00	+0.10 / -0.00	17.30	+0.25 / -0.00	38.26
V025037225V5	25.00	+0.00 / -0.04	25.00	37.00	22.50	25.00	+0.00 / -0.04	37.00	+0.10 / -0.00	22.50	+0.25 / -0.00	19.53
V025040225V5*	25.00	+0.00 / -0.04	25.00	40.00	22.50	25.00	+0.00 / -0.04	40.00	+0.10 / -0.00	22.50	+0.25 / -0.00	31.44
V025042254V2*	25.00	+0.00 / -0.04	25.00	42.00	25.40	25.00	+0.00 / -0.04	42.00	+0.10 / -0.00	25.40	+0.25 / -0.00	40.51
V026045294V3*	26.00	+0.00 / -0.04	26.00	45.00	29.40	26.00	+0.00 / -0.04	45.00	+0.10 / -0.00	29.40	+0.25 / -0.00	40.51
V028040225V5*	28.00	+0.00 / -0.04	28.00	40.00	22.50	28.00	+0.00 / -0.04	40.00	+0.10 / -0.00	22.50	+0.25 / -0.00	16.36
V028044176V3*	28.00	+0.00 / -0.04	28.00	44.00	17.65	28.00	+0.00 / -0.04	44.00	+0.10 / -0.00	17.65	+0.25 / -0.00	40.51
V030040218V3	30.00	+0.00 / -0.04	30.00	40.00	21.80	30.00	+0.00 / -0.04	40.00	+0.10 / -0.00	21.80	+0.25 / -0.00	40.51
V030042225V5	30.00	+0.00 / -0.04	30.00	42.00	22.50	30.00	+0.00 / -0.04	42.00	+0.10 / -0.00	22.50	+0.25 / -0.00	32.73
V030045222V2*	30.00	+0.00 / -0.04	30.00	45.00	22.20	30.00	+0.00 / -0.04	45.00	+0.10 / -0.00	22.20	+0.25 / -0.00	40.51
V030045225V3	30.00	+0.00 / -0.04	30.00	45.00	22.50	30.00	+0.00 / -0.04	45.00	+0.10 / -0.00	22.50	+0.25 / -0.00	35.30
V030045225V5	30.00	+0.00 / -0.04	30.00	45.00	22.50	30.00	+0.00 / -0.04	45.00	+0.10 / -0.00	22.50	+0.25 / -0.00	40.51
V030050297V3*	30.00	+0.00 / -0.04	30.00	50.00	29.37	30.00	+0.00 / -0.04	50.00	+0.10 / -0.00	29.37	+0.25 / -0.00	40.51
V032044225V5*	32.00	+0.00 / -0.04	32.00	44.00	22.50	32.00	+0.00 / -0.04	44.00	+0.10 / -0.00	22.50	+0.25 / -0.00	22.56
V032047225V5*	32.00	+0.00 / -0.04	32.00	47.00	22.50	32.00	+0.00 / -0.04	47.00	+0.10 / -0.00	22.50	+0.25 / -0.00	37.73
V035045218V3*	35.00	+0.00 / -0.04	35.00	45.00	21.78	35.00	+0.00 / -0.04	45.00	+0.10 / -0.00	21.78	+0.25 / -0.00	40.51
V035047225V5	35.00	+0.00 / -0.04	35.00	47.00	22.50	35.00	+0.00 / -0.04	47.00	+0.10 / -0.00	22.50	+0.25 / -0.00	22.56
V035050225V3*	35.00	+0.00 / -0.04	35.00	50.00	22.50	35.00	+0.00 / -0.04	50.00	+0.10 / -0.00	22.50	+0.25 / -0.00	44.36
V035050225V5*	35.00	+0.00 / -0.04	35.00	50.00	22.50	35.00	+0.00 / -0.04	50.00	+0.10 / -0.00	22.50	+0.25 / -0.00	39.73
V036048225V5	36.00	+0.00 / -0.04	36.00	48.00	22.50	36.00	+0.00 / -0.04	48.00	+0.10 / -0.00	22.50	+0.25 / -0.00	24.64
V036051225V5*	36.00	+0.00 / -0.04	36.00	51.00	22.50	36.00	+0.00 / -0.04	51.00	+0.10 / -0.00	22.50	+0.25 / -0.00	27.57

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

V2, V3, V4, V5 SERIES - NEO/PA/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V036052176V3*	36.00	+0.00 / -0.04	36.00	52.00	17.60	36.00	+0.00 / -0.04	52.00	+0.10 / -0.00	17.60	+0.25 / -0.00	42.80
V039055254V3*	39.00	+0.00 / -0.04	39.00	55.00	25.40	39.00	+0.00 / -0.04	55.00	+0.10 / -0.00	25.40	+0.25 / -0.00	45.05
V040050173V3*	40.00	+0.00 / -0.04	40.00	50.00	17.30	40.00	+0.00 / -0.04	50.00	+0.10 / -0.00	17.30	+0.25 / -0.00	44.36
V040052225V5	40.00	+0.00 / -0.04	40.00	52.00	22.50	40.00	+0.00 / -0.04	52.00	+0.10 / -0.00	22.50	+0.25 / -0.00	31.00
V040055225V5	40.00	+0.00 / -0.04	40.00	55.00	22.50	40.00	+0.00 / -0.04	55.00	+0.10 / -0.00	22.50	+0.25 / -0.00	44.87
V040055226V3*	40.00	+0.00 / -0.04	40.00	55.00	22.60	40.00	+0.00 / -0.04	55.00	+0.10 / -0.00	22.60	+0.25 / -0.00	44.36
V040055250V3*	40.00	+0.00 / -0.04	40.00	55.00	25.00	40.00	+0.00 / -0.04	55.00	+0.10 / -0.00	25.00	+0.25 / -0.00	51.16
V040055262V3	40.00	+0.00 / -0.04	40.00	55.00	26.20	40.00	+0.00 / -0.04	55.00	+0.10 / -0.00	26.20	+0.25 / -0.00	45.05
V040056176V3*	40.00	+0.00 / -0.04	40.00	56.00	17.63	40.00	+0.00 / -0.04	56.00	+0.10 / -0.00	17.63	+0.25 / -0.00	44.36
V040060300V3	40.00	+0.00 / -0.04	40.00	60.00	30.00	40.00	+0.00 / -0.04	60.00	+0.10 / -0.00	30.00	+0.25 / -0.00	45.05
V040065358V3*	40.00	+0.00 / -0.04	40.00	65.00	35.75	40.00	+0.00 / -0.04	65.00	+0.10 / -0.00	35.75	+0.25 / -0.00	45.05
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	+0.25 / -0.00	22.07
V042057225V3 *	42.00	+0.00 / -0.05	42.00	57.00	22.50	42.00	+0.00 / -0.05	57.00	+0.12 / -0.00	22.50	+0.25 / -0.00	45.30
V045055175V3	45.00	+0.00 / -0.05	45.00	55.00	17.50	45.00	+0.00 / -0.05	55.00	+0.12 / -0.00	17.50	+0.25 / -0.00	42.80
V045060222V3	45.00	+0.00 / -0.05	45.00	60.00	22.20	45.00	+0.00 / -0.05	60.00	+0.12 / -0.00	22.20	+0.25 / -0.00	45.05
V045060225V5	45.00	+0.00 / -0.05	45.00	60.00	22.50	45.00	+0.00 / -0.05	60.00	+0.12 / -0.00	22.50	+0.25 / -0.00	84.98
V045061290V3	45.00	+0.00 / -0.05	45.00	61.00	29.00	45.00	+0.00 / -0.05	61.00	+0.12 / -0.00	29.00	+0.25 / -0.00	45.05
V045065275V5	45.00	+0.00 / -0.05	45.00	65.00	27.50	45.00	+0.00 / -0.05	65.00	+0.12 / -0.00	27.50	+0.25 / -0.00	58.54
V045065280V3*	45.00	+0.00 / -0.05	45.00	65.00	28.00	45.00	+0.00 / -0.05	65.00	+0.12 / -0.00	28.00	+0.25 / -0.00	53.88
V048060250V3*	48.00	+0.00 / -0.05	48.00	60.00	25.00	48.00	+0.00 / -0.05	60.00	+0.12 / -0.00	25.00	+0.25 / -0.00	45.05
V048062222V3*	48.00	+0.00 / -0.05	48.00	62.00	22.20	48.00	+0.00 / -0.05	62.00	+0.12 / -0.00	22.20	+0.25 / -0.00	45.05
V048063225V3 *	48.00	+0.00 / -0.05	48.00	63.00	22.50	48.00	+0.00 / -0.05	63.00	+0.12 / -0.00	22.50	+0.25 / -0.00	40.27
V050065225V5*	50.00	+0.00 / -0.05	50.00	65.00	22.50	50.00	+0.00 / -0.05	65.00	+0.12 / -0.00	22.50	+0.25 / -0.00	63.32
V050065246V3	50.00	+0.00 / -0.05	50.00	65.00	24.60	50.00	+0.00 / -0.05	65.00	+0.12 / -0.00	24.60	+0.25 / -0.00	50.60
V050070220V3*	50.00	+0.00 / -0.05	50.00	70.00	21.95	50.00	+0.00 / -0.05	70.00	+0.12 / -0.00	21.95	+0.25 / -0.00	45.05
V050070300V3*	50.00	+0.00 / -0.05	50.00	70.00	30.00	50.00	+0.00 / -0.05	70.00	+0.12 / -0.00	30.00	+0.25 / -0.00	60.16
V050070300V5*	50.00	+0.00 / -0.05	50.00	70.00	30.00	50.00	+0.00 / -0.05	70.00	+0.12 / -0.00	30.00	+0.25 / -0.00	65.28
V051069280V2*	51.00	+0.00 / -0.05	51.00	69.00	28.00	51.00	+0.00 / -0.05	69.00	+0.12 / -0.00	28.00	+0.25 / -0.00	54.58
V052072260V3*	52.00	+0.00 / -0.05	52.00	72.00	26.00	52.00	+0.00 / -0.05	72.00	+0.12 / -0.00	26.00	+0.25 / -0.00	45.05
V052072300V3*	52.00	+0.00 / -0.05	52.00	72.00	30.00	52.00	+0.00 / -0.05	72.00	+0.12 / -0.00	30.00	+0.25 / -0.00	54.58
V055067250V3*	55.00	+0.00 / -0.05	55.00	67.00	25.00	55.00	+0.00 / -0.05	67.00	+0.12 / -0.00	25.00	+0.25 / -0.00	46.75
V055070225V5	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	27.78
V055070265V3*	55.00	+0.00 / -0.05	55.00	70.00	26.50	55.00	+0.00 / -0.05	70.00	+0.12 / -0.00	26.50	+0.25 / -0.00	53.83
V055075300V3 *	55.00	+0.00 / -0.05	55.00	75.00	30.00	55.00	+0.00 / -0.05	75.00	+0.12 / -0.00	30.00	+0.25 / -0.00	61.36
V055075300V5	55.00	+0.00 / -0.05	55.00	75.00	30.00	55.00	+0.00 / -0.05	75.00	+0.12 / -0.00	30.00	+0.25 / -0.00	51.79
V055075385V2*	55.00	+0.00 / -0.05	55.00	75.00	38.50	55.00	+0.00 / -0.05	75.00	+0.12 / -0.00	38.50	+0.25 / -0.00	51.79
V056071225V5	56.00	+0.00 / -0.05	56.00	71.00	22.50	56.00	+0.00 / -0.05	71.00	+0.12 / -0.00	22.50	+0.25 / -0.00	53.83
V056076220V3*	56.00	+0.00 / -0.05	56.00	76.00	22.00	56.00	+0.00 / -0.05	76.00	+0.12 / -0.00	22.00	+0.25 / -0.00	51.79
V056076370V5*	56.00	+0.00 / -0.05	56.00	76.00	37.00	56.00	+0.00 / -0.05	76.00	+0.12 / -0.00	37.00	+0.25 / -0.00	73.93
V060075190V2*	60.00	+0.00 / -0.05	60.00	75.00	19.00	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	19.00	+0.25 / -0.00	51.79
V060075225V5	60.00	+0.00 / -0.05	60.00	75.00	22.50	60.00	+0.00 / -0.05	75.00	+0.12 / -0.00	22.50	+0.25 / -0.00	57.86
V060076290V3*	60.00	+0.00 / -0.05	60.00	76.00	29.00	60.00	+0.00 / -0.05	76.00	+0.12 / -0.00	29.00	+0.25 / -0.00	51.79
V060077270V3*	60.00	+0.00 / -0.05	60.00	77.00	27.00	60.00	+0.00 / -0.05	77.00	+0.12 / -0.00	27.00	+0.25 / -0.00	54.04
V060080220V3	60.00	+0.00 / -0.05	60.00	80.00	22.00	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	22.00	+0.25 / -0.00	56.29
V060080321V2*	60.00	+0.00 / -0.05	60.00	80.00	32.15	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	32.15	+0.25 / -0.00	56.29
V060080370V5*	60.00	+0.00 / -0.05	60.00	80.00	37.00	60.00	+0.00 / -0.05	80.00	+0.12 / -0.00	37.00	+0.25 / -0.00	52.69
V063078225V5	63.00	+0.00 / -0.05	63.00	78.00	22.50	63.00	+0.00 / -0.05	78.00	+0.12 / -0.00	22.50	+0.25 / -0.00	50.02
V063080280V2*	63.00	+0.00 / -0.05	63.00	80.00	28.00	63.00	+0.00 / -0.05	80.00	+0.12 / -0.00	28.00	+0.25 / -0.00	54.04

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

V2, V3, V4, V5 SERIES - NEO/PA/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V063083220V3*	63.00	+0.00 / -0.05	63.00	83.00	21.95	63.00	+0.00 / -0.05	83.00	+0.12 / -0.00	21.95	+0.25 / -0.00	58.54
V063083370V5	63.00	+0.00 / -0.05	63.00	83.00	37.00	63.00	+0.00 / -0.05	83.00	+0.12 / -0.00	37.00	+0.25 / -0.00	82.95
V064080258V3*	64.00	+0.00 / -0.05	64.00	80.00	25.80	64.00	+0.00 / -0.05	80.00	+0.12 / -0.00	25.80	+0.25 / -0.00	54.04
V065077210V3*	65.00	+0.00 / -0.05	65.00	77.00	21.00	65.00	+0.00 / -0.05	77.00	+0.12 / -0.00	21.00	+0.25 / -0.00	51.79
V065080225V3*	65.00	+0.00 / -0.05	65.00	80.00	22.50	65.00	+0.00 / -0.05	80.00	+0.12 / -0.00	22.50	+0.25 / -0.00	63.14
V065080225V5*	65.00	+0.00 / -0.06	65.00	80.00	22.50	65.00	+0.00 / -0.06	80.00	+0.12 / -0.00	22.50	+0.25 / -0.00	55.57
V065080260V4*	65.00	+0.00 / -0.06	65.00	80.00	26.00	65.00	+0.00 / -0.06	80.00	+0.12 / -0.00	26.00	+0.25 / -0.00	54.00
V065080290V5*	65.00	+0.00 / -0.06	65.00	80.00	29.00	65.00	+0.00 / -0.06	80.00	+0.12 / -0.00	29.00	+0.25 / -0.00	80.03
V065085290V3	65.00	+0.00 / -0.06	65.00	85.00	29.00	65.00	+0.00 / -0.06	85.00	+0.12 / -0.00	29.00	+0.25 / -0.00	58.54
V065085400V5*	65.00	+0.00 / -0.06	65.00	85.00	40.00	65.00	+0.00 / -0.06	85.00	+0.14 / -0.00	40.00	+0.25 / -0.00	87.14
V070085225V5	70.00	+0.00 / -0.06	70.00	85.00	22.50	70.00	+0.00 / -0.06	85.00	+0.14 / -0.00	22.50	+0.25 / -0.00	110.68
V070085280V3	70.00	+0.00 / -0.06	70.00	85.00	28.00	70.00	+0.00 / -0.06	85.00	+0.14 / -0.00	28.00	+0.25 / -0.00	58.54
V070090220V3*	70.00	+0.00 / -0.06	70.00	90.00	22.00	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	22.00	+0.25 / -0.00	58.54
V070090295V2	70.00	+0.00 / -0.06	70.00	90.00	29.50	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	29.50	+0.25 / -0.00	59.75
V070090300V3*	70.00	+0.00 / -0.06	70.00	90.00	30.00	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	30.00	+0.25 / -0.00	68.86
V070090400V5	70.00	+0.00 / -0.06	70.00	90.00	40.00	70.00	+0.00 / -0.06	90.00	+0.14 / -0.00	40.00	+0.25 / -0.00	73.93
V075090225V2*	75.00	+0.00 / -0.06	75.00	90.00	22.50	75.00	+0.00 / -0.06	90.00	+0.14 / -0.00	22.50	+0.25 / -0.00	69.23
V075090225V3*	75.00	+0.00 / -0.06	75.00	90.00	22.50	75.00	+0.00 / -0.06	90.00	+0.14 / -0.00	22.50	+0.25 / -0.00	60.79
V075090225V5*	75.00	+0.00 / -0.06	75.00	90.00	22.50	75.00	+0.00 / -0.06	90.00	+0.14 / -0.00	22.50	+0.25 / -0.00	50.12
V075095300V3*	75.00	+0.00 / -0.06	75.00	95.00	30.00	75.00	+0.00 / -0.06	95.00	+0.14 / -0.00	30.00	+0.25 / -0.00	63.86
V075095400V5*	75.00	+0.00 / -0.06	75.00	95.00	40.00	75.00	+0.00 / -0.06	95.00	+0.14 / -0.00	40.00	+0.25 / -0.00	77.23
V075100375V3*	75.00	+0.00 / -0.06	75.00	100.00	37.50	75.00	+0.00 / -0.06	100.00	+0.14 / -0.00	37.50	+0.25 / -0.00	67.53
V080095175V3*	80.00	+0.00 / -0.06	80.00	95.00	17.50	80.00	+0.00 / -0.06	95.00	+0.14 / -0.00	17.50	+0.25 / -0.00	63.03
V080095225V5	80.00	+0.00 / -0.09	80.00	95.00	22.50	80.00	+0.00 / -0.09	95.00	+0.14 / -0.00	22.50	+0.25 / -0.00	68.42
V080100300V3	80.00	+0.00 / -0.09	80.00	100.00	30.00	80.00	+0.00 / -0.09	100.00	+0.14 / -0.00	30.00	+0.25 / -0.00	67.53
V080100400V5	80.00	+0.00 / -0.09	80.00	100.00	40.00	80.00	+0.00 / -0.09	100.00	+0.14 / -0.00	40.00	+0.25 / -0.00	74.86
V080105274V3*	80.00	+0.00 / -0.09	80.00	105.00	27.40	80.00	+0.00 / -0.09	105.00	+0.14 / -0.00	27.40	+0.25 / -0.00	94.17
V085100225V5	85.00	+0.00 / -0.09	85.00	100.00	22.50	85.00	+0.00 / -0.09	100.00	+0.14 / -0.00	22.50	+0.25 / -0.00	72.92
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	78.12
V090105225V5	90.00	+0.00 / -0.09	90.00	105.00	22.50	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	22.50	+0.25 / -0.00	75.00
V090105317V2*	90.00	+0.00 / -0.09	90.00	105.00	31.70	90.00	+0.00 / -0.09	105.00	+0.14 / -0.00	31.70	+0.25 / -0.00	70.62
V090110250V3*	90.00	+0.00 / -0.09	90.00	110.00	25.00	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	25.00	+0.25 / -0.00	75.34
V090110269V2*	90.00	+0.00 / -0.09	90.00	110.00	26.90	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	26.90	+0.25 / -0.00	79.27
V090110300V4*	90.00	+0.00 / -0.09	90.00	110.00	30.00	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	30.00	+0.25 / -0.00	83.91
V090110400V5	90.00	+0.00 / -0.09	90.00	110.00	40.00	90.00	+0.00 / -0.09	110.00	+0.14 / -0.00	40.00	+0.25 / -0.00	105.17
V090115274V3*	90.00	+0.00 / -0.09	90.00	115.00	27.41	90.00	+0.00 / -0.09	115.00	+0.14 / -0.00	27.41	+0.25 / -0.00	75.34
V095110240V2*	95.00	+0.00 / -0.09	95.00	110.00	24.00	95.00	+0.00 / -0.09	110.00	+0.14 / -0.00	24.00	+0.25 / -0.00	75.34
V095115321V3*	95.00	+0.00 / -0.09	95.00	115.00	32.10	95.00	+0.00 / -0.09	115.00	+0.14 / -0.00	32.10	+0.25 / -0.00	103.58
V095115400V5*	95.00	+0.00 / -0.09	95.00	115.00	40.00	95.00	+0.00 / -0.09	115.00	+0.14 / -0.00	40.00	+0.25 / -0.00	77.38
V100115253V3*	100.00	+0.00 / -0.09	100.00	115.00	25.30	100.00	+0.00 / -0.09	115.00	+0.14 / -0.00	25.30	+0.25 / -0.00	75.34
V100115300V5	100.00	+0.00 / -0.09	100.00	115.00	30.00	100.00	+0.00 / -0.09	115.00	+0.14 / -0.00	30.00	+0.25 / -0.00	75.00
V100120280V3	100.00	+0.00 / -0.09	100.00	120.00	28.00	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	28.00	+0.25 / -0.00	75.34
V100120300V3*	100.00	+0.00 / -0.09	100.00	120.00	30.00	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	30.00	+0.25 / -0.00	127.71
V100120400V5	100.00	+0.00 / -0.09	100.00	120.00	40.00	100.00	+0.00 / -0.09	120.00	+0.14 / -0.00	40.00	+0.25 / -0.00	100.91
V100125274V3	100.00	+0.00 / -0.09	100.00	125.00	27.40	100.00	+0.00 / -0.09	125.00	+0.14 / -0.00	27.40	+0.25 / -0.00	75.34
V100125370V3*	100.00	+0.00 / -0.09	100.00	125.00	37.00	100.00	+0.00 / -0.09	125.00	+0.14 / -0.00	37.00	+0.25 / -0.00	82.39
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	+0.25 / -0.00	89.44
V105120250V3*	105.00	+0.00 / -0.13	105.00	120.00	25.00	105.00	+0.00 / -0.13	120.00	+0.16 / -0.00	25.00	+0.25 / -0.00	75.34

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

V2, V3, V4, V5 SERIES - NEO/PA/NBR

Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V105120300V5*	105.00	+0.00 / -0.13	105.00	120.00	30.00	105.00	+0.00 / -0.13	120.00	+0.16 / -0.00	30.00	+0.25 / -0.00	115.28
V105125298V3*	105.00	+0.00 / -0.13	105.00	125.00	29.80	105.00	+0.00 / -0.13	125.00	+0.16 / -0.00	29.80	+0.25 / -0.00	82.39
V105130400V3*	105.00	+0.00 / -0.13	105.00	130.00	40.00	105.00	+0.00 / -0.13	130.00	+0.16 / -0.00	40.00	+0.25 / -0.00	145.77
V110125300V5	110.00	+0.00 / -0.13	110.00	125.00	30.00	110.00	+0.00 / -0.13	125.00	+0.16 / -0.00	30.00	+0.25 / -0.00	63.37
V110130300V3*	110.00	+0.00 / -0.13	110.00	130.00	30.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	30.00	+0.25 / -0.00	94.93
V110130400V5	110.00	+0.00 / -0.13	110.00	130.00	40.00	110.00	+0.00 / -0.13	130.00	+0.16 / -0.00	40.00	+0.25 / -0.00	106.14
V110132365V2*	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	86.32
V110135415V3	110.00	+0.00 / -0.13	110.00	135.00	41.50	110.00	+0.00 / -0.13	135.00	+0.16 / -0.00	41.50	+0.25 / -0.00	135.30
V114130258V3*	114.00	+0.00 / -0.13	114.00	130.00	25.80	114.00	+0.00 / -0.13	130.00	+0.16 / -0.00	25.80	+0.25 / -0.00	86.32
V115130300V5*	115.00	+0.00 / -0.13	115.00	130.00	30.00	115.00	+0.00 / -0.13	130.00	+0.16 / -0.00	30.00	+0.25 / -0.00	94.04
V115140371V2*	115.00	+0.00 / -0.13	115.00	140.00	37.12	115.00	+0.00 / -0.13	140.00	+0.16 / -0.00	37.12	+0.25 / -0.00	94.95
V115140460V5*	115.00	+0.00 / -0.13	115.00	140.00	46.00	115.00	+0.00 / -0.13	140.00	+0.16 / -0.00	46.00	+0.25 / -0.00	130.72
V120140300V3	120.00	+0.00 / -0.13	120.00	140.00	30.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	30.00	+0.25 / -0.00	90.62
V120140490V5	120.00	+0.00 / -0.13	120.00	140.00	49.00	120.00	+0.00 / -0.13	140.00	+0.16 / -0.00	49.00	+0.25 / -0.00	140.82
V120145460V5	120.00	+0.00 / -0.13	120.00	145.00	46.00	120.00	+0.00 / -0.13	145.00	+0.16 / -0.00	46.00	+0.25 / -0.00	119.39
V120150440V3*	120.00	+0.00 / -0.13	120.00	150.00	44.00	120.00	+0.00 / -0.13	150.00	+0.16 / -0.00	44.00	+0.25 / -0.00	103.58
V125140340V5	125.00	+0.00 / -0.13	125.00	140.00	34.00	125.00	+0.00 / -0.13	140.00	+0.16 / -0.00	34.00	+0.25 / -0.00	124.69
V125145296V3*	125.00	+0.00 / -0.13	125.00	145.00	29.60	125.00	+0.00 / -0.13	145.00	+0.16 / -0.00	29.60	+0.25 / -0.00	146.44
V125150274V3*	125.00	+0.00 / -0.13	125.00	150.00	27.40	125.00	+0.00 / -0.13	150.00	+0.16 / -0.00	27.40	+0.25 / -0.00	103.58
V125150460V5	125.00	+0.00 / -0.13	125.00	150.00	46.00	125.00	+0.00 / -0.13	150.00	+0.16 / -0.00	46.00	+0.25 / -0.00	129.47
V130150297V3*	130.00	+0.00 / -0.13	130.00	150.00	29.76	130.00	+0.00 / -0.13	150.00	+0.16 / -0.00	29.76	+0.25 / -0.00	103.58
V130160415V3*	130.00	+0.00 / -0.13	130.00	160.00	41.50	130.00	+0.00 / -0.13	160.00	+0.16 / -0.00	41.50	+0.25 / -0.00	120.84
V135155305V3	135.00	+0.00 / -0.13	135.00	155.00	30.55	135.00	+0.00 / -0.13	155.00	+0.16 / -0.00	30.55	+0.25 / -0.00	120.84
V140155340V5	140.00	+0.00 / -0.13	140.00	155.00	34.00	140.00	+0.00 / -0.13	155.00	+0.16 / -0.00	34.00	+0.25 / -0.00	167.26
V140160285V3	140.00	+0.00 / -0.13	140.00	160.00	28.50	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	28.50	+0.25 / -0.00	116.51
V140160400V5	140.00	+0.00 / -0.13	140.00	160.00	40.00	140.00	+0.00 / -0.13	160.00	+0.16 / -0.00	40.00	+0.25 / -0.00	188.51
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	125.17
V140165460V5	140.00	+0.00 / -0.13	140.00	165.00	46.00	140.00	+0.00 / -0.13	165.00	+0.16 / -0.00	46.00	+0.25 / -0.00	189.81
V140170329V2*	140.00	+0.00 / -0.13	140.00	170.00	32.97	140.00	+0.00 / -0.13	170.00	+0.16 / -0.00	32.97	+0.25 / -0.00	129.47
V140170390V3	140.00	+0.00 / -0.13	140.00	170.00	39.00	140.00	+0.00 / -0.13	170.00	+0.16 / -0.00	39.00	+0.25 / -0.00	144.32
V145170381V3	145.00	+0.00 / -0.13	145.00	170.00	38.10	145.00	+0.00 / -0.13	170.00	+0.16 / -0.00	38.10	+0.25 / -0.00	155.92
V150170305V3*	150.00	+0.00 / -0.13	150.00	170.00	30.55	150.00	+0.00 / -0.13	170.00	+0.16 / -0.00	30.55	+0.25 / -0.00	110.29
V150170400V5*	150.00	+0.00 / -0.13	150.00	170.00	40.00	150.00	+0.00 / -0.13	170.00	+0.16 / -0.00	40.00	+0.25 / -0.00	158.63
V150180400V3*	150.00	+0.00 / -0.13	150.00	180.00	40.00	150.00	+0.00 / -0.13	180.00	+0.16 / -0.00	40.00	+0.25 / -0.00	140.26
V150180600V5	150.00	+0.00 / -0.13	150.00	180.00	60.00	150.00	+0.00 / -0.13	180.00	+0.16 / -0.00	60.00	+0.25 / -0.00	300.51
V157182302V3*	157.00	+0.00 / -0.13	157.00	182.00	30.25	157.00	+0.00 / -0.13	182.00	+0.16 / -0.00	30.25	+0.25 / -0.00	172.61
V160180320V3	160.00	+0.00 / -0.13	160.00	180.00	32.00	160.00	+0.00 / -0.13	180.00	+0.16 / -0.00	32.00	+0.25 / -0.00	175.02
V160180400V5	160.00	+0.00 / -0.13	160.00	180.00	40.00	160.00	+0.00 / -0.13	180.00	+0.16 / -0.00	40.00	+0.25 / -0.00	175.02
V160190330V3*	160.00	+0.00 / -0.13	160.00	190.00	33.00	160.00	+0.00 / -0.13	190.00	+0.16 / -0.00	33.00	+0.25 / -0.00	161.85
V160190600V5	160.00	+0.00 / -0.13	160.00	190.00	60.00	160.00	+0.00 / -0.13	190.00	+0.18 / -0.00	60.00	+0.25 / -0.00	332.08
V165195505V3*	165.00	+0.00 / -0.13	165.00	195.00	50.50	165.00	+0.00 / -0.13	195.00	+0.18 / -0.00	50.50	+0.25 / -0.00	291.92
V170190400V5*	170.00	+0.00 / -0.13	170.00	190.00	40.00	170.00	+0.00 / -0.13	190.00	+0.18 / -0.00	40.00	+0.25 / -0.00	177.08
V170195375V3*	170.00	+0.00 / -0.13	170.00	195.00	37.50	170.00	+0.00 / -0.13	195.00	+0.18 / -0.00	37.50	+0.25 / -0.00	183.40
V170200450V3	170.00	+0.00 / -0.13	170.00	200.00	45.00	170.00	+0.00 / -0.13	200.00	+0.18 / -0.00	45.00	+0.25 / -0.00	213.86
V170200600V5	170.00	+0.00 / -0.13	170.00	200.00	60.00	170.00	+0.00 / -0.13	200.00	+0.18 / -0.00	60.00	+0.25 / -0.00	280.52
V175200420V3*	175.00	+0.00 / -0.13	175.00	200.00	42.00	175.00	+0.00 / -0.13	200.00	+0.18 / -0.00	42.00	+0.25 / -0.00	183.40
V180200400V5	180.00	+0.00 / -0.13	180.00	200.00	40.00	180.00	+0.00 / -0.13	200.00	+0.18 / -0.00	40.00	+0.25 / -0.00	215.99
V180205400V4	180.00	+0.00 / -0.13	180.00	205.00	40.00	180.00	+0.00 / -0.13	205.00	+0.18 / -0.00	40.00	+0.25 / -0.00	204.95

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

V2, V3, V4, V5 SERIES - NEO/PA/NBR

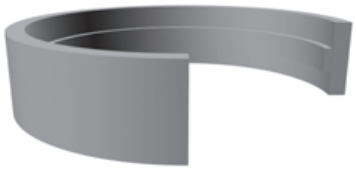
Ref.Number	Rod diameter		Nominal Seal Dimensions			Housing Dimensions						$
		Tol.	d	D	H	d1	Tol.	D1	Tol.	H1	Tol.	
V180210330V3*	180.00	+0.00 / -0.13	180.00	210.00	33.00	180.00	+0.00 / -0.13	210.00	+0.18 / -0.00	33.00	+0.25 / -0.00	204.99
V180210600V5	180.00	+0.00 / -0.13	180.00	210.00	60.00	180.00	+0.00 / -0.13	210.00	+0.18 / -0.00	60.00	+0.25 / -0.00	316.27
V190220450V3*	190.00	+0.00 / -0.13	190.00	220.00	45.00	190.00	+0.00 / -0.13	220.00	+0.18 / -0.00	45.00	+0.25 / -0.00	338.23
V190220600V5	190.00	+0.00 / -0.13	190.00	220.00	60.00	190.00	+0.00 / -0.13	220.00	+0.18 / -0.00	60.00	+0.25 / -0.00	363.73
V200220300V2*	200.00	+0.00 / -0.13	200.00	220.00	30.00	200.00	+0.00 / -0.13	220.00	+0.18 / -0.00	30.00	+0.25 / -0.00	215.79
V200220400V5	200.00	+0.00 / -0.13	200.00	220.00	40.00	200.00	+0.00 / -0.13	220.00	+0.18 / -0.00	40.00	+0.25 / -0.00	259.53
V200230329V2*	200.00	+0.00 / -0.13	200.00	230.00	32.97	200.00	+0.00 / -0.13	230.00	+0.18 / -0.00	32.97	+0.25 / -0.00	204.99
V200230600V5	200.00	+0.00 / -0.13	200.00	230.00	60.00	200.00	+0.00 / -0.13	230.00	+0.18 / -0.00	60.00	+0.25 / -0.00	379.55
V205225195V3*	205.00	+0.00 / -0.13	205.00	225.00	19.50	205.00	+0.00 / -0.13	225.00	+0.18 / -0.00	19.50	+0.25 / -0.00	215.79
V210240421V3	210.00	+0.00 / -0.13	210.00	240.00	42.10	210.00	+0.00 / -0.13	240.00	+0.18 / -0.00	42.10	+0.25 / -0.00	215.79
V220250600V4*	220.00	+0.00 / -0.13	220.00	250.00	60.00	220.00	+0.00 / -0.13	250.00	+0.18 / -0.00	60.00	+0.25 / -0.00	388.40
V220250600V5	220.00	+0.00 / -0.13	220.00	250.00	60.00	220.00	+0.00 / -0.13	250.00	+0.18 / -0.00	60.00	+0.25 / -0.00	303.75
V224254329V2*	224.00	+0.00 / -0.13	224.00	254.00	32.97	224.00	+0.00 / -0.13	254.00	+0.18 / -0.00	32.97	+0.25 / -0.00	258.93
V225255450V3*	225.00	+0.00 / -0.13	225.00	255.00	45.00	225.00	+0.00 / -0.13	255.00	+0.18 / -0.00	45.00	+0.25 / -0.00	286.81
V230260525V4	230.00	+0.00 / -0.13	230.00	260.00	52.50	230.00	+0.00 / -0.13	260.00	+0.18 / -0.00	52.50	+0.25 / -0.00	284.32
V230260600V4	230.00	+0.00 / -0.13	230.00	260.00	60.00	230.00	+0.00 / -0.13	260.00	+0.18 / -0.00	60.00	+0.25 / -0.00	293.11
V240270450V3*	240.00	+0.00 / -0.13	240.00	270.00	45.00	240.00	+0.00 / -0.13	270.00	+0.18 / -0.00	45.00	+0.25 / -0.00	302.18
V240270600V5*	240.00	+0.00 / -0.13	240.00	270.00	60.00	240.00	+0.00 / -0.13	270.00	+0.18 / -0.00	60.00	+0.25 / -0.00	468.18
V240270640V5*	240.00	+0.00 / -0.13	240.00	270.00	64.00	240.00	+0.00 / -0.13	270.00	+0.18 / -0.00	64.00	+0.25 / -0.00	420.78
V250280330V3*	250.00	+0.00 / -0.13	250.00	280.00	33.00	250.00	+0.00 / -0.13	280.00	+0.18 / -0.00	33.00	+0.25 / -0.00	302.11
V250280450V5*	250.00	+0.00 / -0.13	250.00	280.00	45.00	250.00	+0.00 / -0.13	280.00	+0.18 / -0.00	45.00	+0.25 / -0.00	308.82
V250280500V3*	250.00	+0.00 / -0.13	250.00	280.00	50.00	250.00	+0.00 / -0.13	280.00	+0.18 / -0.00	50.00	+0.25 / -0.00	317.70
V260290600V4*	260.00	+0.00 / -0.13	260.00	290.00	60.00	260.00	+0.00 / -0.13	290.00	+0.18 / -0.00	60.00	+0.25 / -0.00	539.35
V270300666V6*	270.00	+0.00 / -0.13	270.00	300.00	66.60	270.00	+0.00 / -0.13	300.00	+0.18 / -0.00	66.60	+0.25 / -0.00	308.76
V280310500V3*	280.00	+0.00 / -0.13	280.00	310.00	50.00	280.00	+0.00 / -0.13	310.00	+0.18 / -0.00	50.00	+0.25 / -0.00	404.19
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	565.86
V280315385V3*	280.00	+0.00 / -0.13	280.00	315.00	38.50	280.00	+0.00 / -0.13	315.00	+0.18 / -0.00	38.50	+0.25 / -0.00	352.74
V280315450V4	280.00	+0.00 / -0.13	280.00	315.00	45.00	280.00	+0.00 / -0.13	315.00	+0.18 / -0.00	45.00	+0.25 / -0.00	357.06
V290320508V3	290.00	+0.00 / -0.13	290.00	320.00	50.80	290.00	+0.00 / -0.13	320.00	+0.18 / -0.00	50.80	+0.25 / -0.00	431.58
V300320320V2*	300.00	+0.00 / -0.13	300.00	320.00	32.00	300.00	+0.00 / -0.13	320.00	+0.18 / -0.00	32.00	+0.25 / -0.00	388.40
V300330600V5	300.00	+0.00 / -0.13	300.00	330.00	60.00	300.00	+0.00 / -0.13	330.00	+0.18 / -0.00	60.00	+0.25 / -0.00	615.48
V310330300V3*	310.00	+0.00 / -0.13	310.00	330.00	30.00	310.00	+0.00 / -0.13	330.00	+0.18 / -0.00	30.00	+0.25 / -0.00	409.99
V310340600V4*	310.00	+0.00 / -0.13	310.00	340.00	60.00	310.00	+0.00 / -0.13	340.00	+0.18 / -0.00	60.00	+0.25 / -0.00	648.44
V320350600V4*	320.00	+0.00 / -0.13	320.00	350.00	60.00	320.00	+0.00 / -0.13	350.00	+0.18 / -0.00	60.00	+0.25 / -0.00	745.05
V320360540V2*	320.00	+0.00 / -0.13	320.00	360.00	54.00	320.00	+0.00 / -0.13	360.00	+0.18 / -0.00	54.00	+0.25 / -0.00	658.16
V320360600V3*	320.00	+0.00 / -0.13	320.00	360.00	60.00	320.00	+0.00 / -0.13	360.00	+0.18 / -0.00	60.00	+0.25 / -0.00	715.66
V320360630V3*	320.00	+0.00 / -0.13	320.00	360.00	63.00	320.00	+0.00 / -0.13	360.00	+0.18 / -0.00	63.00	+0.25 / -0.00	569.66
V320365550V3*	320.00	+0.00 / -0.13	320.00	365.00	55.00	320.00	+0.00 / -0.13	365.00	+0.18 / -0.00	55.00	+0.25 / -0.00	798.38
V330360600V4*	330.00	+0.00 / -0.13	330.00	360.00	60.00	330.00	+0.00 / -0.13	360.00	+0.18 / -0.00	60.00	+0.25 / -0.00	778.59
V340380600V3*	340.00	+0.00 / -0.13	340.00	380.00	60.00	340.00	+0.00 / -0.13	380.00	+0.18 / -0.00	60.00	+0.25 / -0.00	868.60
V350390600V3*	350.00	+0.00 / -0.13	350.00	390.00	60.00	350.00	+0.00 / -0.13	390.00	+0.18 / -0.00	60.00	+0.25 / -0.00	878.91
V360400600V3*	360.00	+0.00 / -0.13	360.00	400.00	60.00	360.00	+0.00 / -0.13	400.00	+0.18 / -0.00	60.00	+0.25 / -0.00	1018.33
V369400450V3*	369.00	+0.00 / -0.13	369.00	400.00	45.00	369.00	+0.00 / -0.13	400.00	+0.18 / -0.00	45.00	+0.25 / -0.00	820.25
V400440540V2*	400.00	+0.00 / -0.13	400.00	440.00	54.00	400.00	+0.00 / -0.13	440.00	+0.18 / -0.00	54.00	+0.25 / -0.00	805.58
V400450750V3*	400.00	+0.00 / -0.13	400.00	450.00	75.00	400.00	+0.00 / -0.13	450.00	+0.18 / -0.00	75.00	+0.25 / -0.00	1319.11
V463500550V3*	463.00	+0.00 / -0.13	463.00	500.00	55.00	463.00	+0.00 / -0.13	500.00	+0.18 / -0.00	55.00	+0.25 / -0.00	992.58

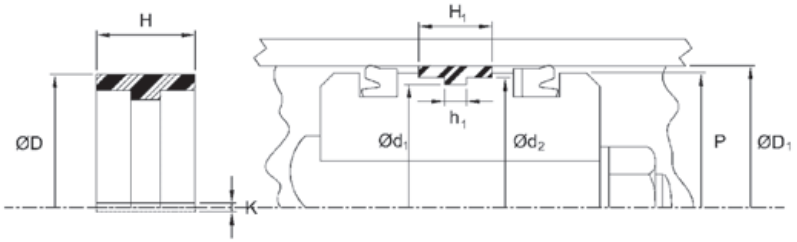
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

	GA	N	2
	GB	N	3
	GB/N	N	7
	GC FORMULA	N	8
	GC	N	9
	WS-BR60	N	15
	WS-PR	N	16
	WS-PR-BOX	N	18
	WS-C	N	18
	“DV” BEARING CHART	N	19
	“DV” BEARING	N	21
	GE	N	23
	GE-ES	N	24
	GE-ES2RS	N	25
	GE-GS	N	26
	GE-GS2RS	N	27

GA - Guiding Elements

Polyamide





Temperature: -40/230F [-40/110C] **Pressure:**

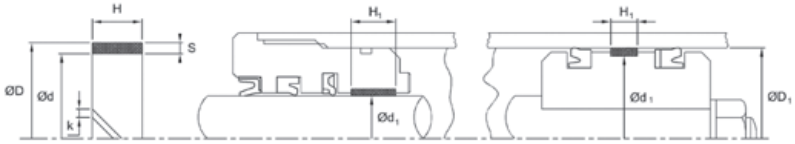
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
							d1	d2	P	h1	H1	
		Tol.	D	d	H	K	+.00/ -.40	+.00/ -.10	+.00/ -.10	+.01/ -.01	+.20/ -.00	
G020014078GA*	20.00	+0.08 / -0.00	20.00	14.00	7.80	2.00	14.00	17.20	19.65	3.00	8.50	56.60
G022016078GA*	22.00	+0.08 / -0.00	22.00	16.00	7.80	2.00	16.00	19.20	21.65	3.00	8.50	56.60
G025019078GA*	25.00	+0.08 / -0.00	25.00	19.00	7.80	2.00	19.00	22.20	24.65	3.00	8.50	56.60
G028022078GA*	28.00	+0.08 / -0.00	28.00	22.00	7.80	2.00	22.00	25.20	27.65	3.00	8.50	56.60
G030024078GA*	30.00	+0.08 / -0.00	30.00	24.00	7.80	2.00	24.00	27.20	29.65	3.00	8.50	56.60
G032026078GA*	32.00	+0.08 / -0.00	32.00	26.00	7.80	2.00	26.00	29.20	31.65	3.00	8.50	60.00
G035029078GA*	35.00	+0.08 / -0.00	35.00	29.00	7.80	2.00	29.00	32.20	34.65	3.00	8.50	65.90
G036030078GA*	36.00	+0.08 / -0.00	36.00	30.00	7.80	2.00	30.00	33.20	35.65	3.00	8.50	65.90
G040032098GA*	40.00	+0.08 / -0.00	40.00	32.50	9.80	3.00	32.50	36.80	39.60	3.50	10.50	66.79
G045037098GA*	45.00	+0.08 / -0.00	45.00	37.50	9.80	3.00	37.50	41.80	44.60	3.50	10.50	67.70
G050042098GA*	50.00	+0.08 / -0.00	50.00	42.50	9.80	3.00	42.50	46.80	49.60	3.50	10.50	67.93
G055047098GA*	55.00	+0.08 / -0.00	55.00	47.50	9.80	4.00	47.50	51.90	54.60	3.50	10.50	68.83
G056048098GA*	56.00	+0.08 / -0.00	56.00	48.50	9.80	4.00	48.50	52.90	55.60	3.50	10.50	69.28
G058050098GA*	58.00	+0.08 / -0.00	58.00	50.50	9.80	4.00	50.50	54.90	57.60	3.50	10.50	69.96
G060052098GA*	60.00	+0.08 / -0.00	60.00	52.50	9.80	4.00	52.50	56.90	59.60	3.50	10.50	70.19
G063054143GA*	63.00	+0.08 / -0.00	63.00	54.00	14.30	5.00	54.00	59.50	62.50	5.00	15.00	71.32
G065056143GA*	65.00	+0.08 / -0.00	65.00	56.00	14.30	5.00	56.00	61.50	64.50	5.00	15.00	71.32
G070061143GA*	70.00	+0.08 / -0.00	70.00	61.00	14.30	5.00	61.00	66.50	69.50	5.00	15.00	71.32
G075066143GA*	75.00	+0.08 / -0.00	75.00	66.00	14.30	5.00	66.00	71.50	74.50	5.00	15.00	71.32
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	71.32
G085076143GA*	85.00	+0.10 / -0.00	85.00	76.00	14.30	5.00	76.00	81.50	84.50	5.00	15.00	72.45
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	73.13
G095086143GA*	95.00	+0.10 / -0.00	95.00	86.00	14.30	8.00	86.00	91.50	94.40	5.00	15.00	73.59
G100091143GA*	100.00	+0.10 / -0.00	100.00	91.00	14.30	8.00	91.00	96.50	99.40	5.00	15.00	74.27
G105096143GA*	105.00	+0.10 / -0.00	105.00	96.00	14.30	8.00	96.00	101.50	104.40	5.00	15.00	79.25
G110101143GA*	110.00	+0.10 / -0.00	110.00	101.00	14.30	8.00	101.00	106.50	109.40	5.00	15.00	84.44
G115106143GA*	115.00	+0.10 / -0.00	115.00	106.00	14.30	8.00	106.00	111.50	114.40	5.00	15.00	84.91
G120111143GA*	120.00	+0.10 / -0.00	120.00	111.00	14.30	8.00	111.00	116.50	119.40	5.00	15.00	84.91
G125116143GA*	125.00	+0.10 / -0.00	125.00	116.00	14.30	8.00	116.00	121.50	124.40	5.00	15.00	87.17
G130121143GA*	130.00	+0.10 / -0.00	130.00	121.00	14.30	8.00	121.00	126.50	129.40	5.00	15.00	90.57
G135126143GA*	135.00	+0.10 / -0.00	135.00	126.00	14.30	8.00	126.00	131.50	134.40	5.00	15.00	100.01
G140131143GA*	140.00	+0.10 / -0.00	140.00	131.00	14.30	8.00	131.00	136.50	139.40	5.00	15.00	101.32
G150141143GA*	150.00	+0.10 / -0.00	150.00	141.00	14.30	8.00	141.00	146.50	149.40	5.00	15.00	102.50
G160144198GA*	160.00	+0.10 / -0.00	160.00	144.00	19.80	10.00	144.00	152.90	159.30	8.00	20.30	104.83
G170154198GA*	170.00	+0.10 / -0.00	170.00	154.00	19.80	10.00	154.00	162.90	169.30	8.00	20.30	109.36
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	113.82
G190174198GA*	190.00	+0.13 / -0.00	190.00	174.00	19.80	10.00	174.00	182.90	189.30	8.00	20.30	131.14
G200184198GA*	200.00	+0.13 / -0.00	200.00	184.00	19.80	10.00	184.00	192.90	199.30	8.00	20.30	133.41

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

Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	H	K	d1 +.00/ -.08	d2 +.12/ -.12	P +.10/ -.10	h1 +.20/ -.00	H1 +.10/ -.00	
G220203245GA*	220.00	+0.13 / -0.00	220.00	203.00	24.50	12.00	203.00	212.50	219.20	8.00	25.00	177.00
G225208245GA*	225.00	+0.13 / -0.00	225.00	208.00	24.50	12.00	208.00	217.50	224.20	8.00	25.00	190.64
G230213245GA*	230.00	+0.13 / -0.00	230.00	213.00	24.50	12.00	213.00	222.50	229.20	8.00	25.00	205.36
G240223245GA*	240.00	+0.13 / -0.00	240.00	223.00	24.50	12.00	223.00	232.50	239.20	8.00	25.00	217.69

GB - Guiding Elements

BR.PTFE



Compressive Strength

Temperature: -40/250F [-40/121] **Pressure: N/A**

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G050045056GB*	50.00	45.00	50.00	5.60	2.50	7.26
G050450097GB*	50.00	45.00	50.00	9.70	2.50	11.27
G050045150GB*	50.00	45.00	50.00	15.00	2.50	16.98
G055050056GB*	55.00	50.00	55.00	5.60	2.50	7.99
G055050097GB*	55.00	50.00	55.00	9.70	2.50	12.39
G055050150GB*	55.00	50.00	55.00	15.00	2.50	18.67
G060055056GB*	60.00	55.00	60.00	5.60	2.50	8.72
G060055097GB*	60.00	55.00	60.00	9.70	2.50	13.52
G060055150GB*	60.00	55.00	60.00	15.00	2.50	20.37
G061056056GB*	61.00	56.00	61.00	5.60	2.50	8.86
G061056097GB*	61.00	56.00	61.00	9.70	2.50	13.75
G061056150GB*	61.00	56.00	61.00	15.00	2.50	20.71
G063058056GB*	63.00	58.00	63.00	5.60	2.50	9.15
G063058097GB*	63.00	58.00	63.00	9.70	2.50	14.20
G063058150GB*	63.00	58.00	63.00	15.00	2.50	21.39
G065060056GB*	65.00	60.00	65.00	5.60	2.50	9.44
G065060097GB	65.00	60.00	65.00	9.70	2.50	14.65
G065060150GB*	65.00	60.00	65.00	15.00	2.50	22.07
G068063056GB*	68.00	63.00	68.00	5.60	2.50	9.88
G068063097GB*	68.00	63.00	68.00	9.70	2.50	15.32
G068063150GB*	68.00	63.00	68.00	15.00	2.50	23.09
G070065056GB*	70.00	65.00	70.00	5.60	2.50	10.17
G070065097GB	70.00	65.00	70.00	9.70	2.50	15.78
G070065150GB*	70.00	65.00	70.00	15.00	2.50	23.77
G075070056GB*	75.00	70.00	75.00	5.60	2.50	10.90
G075070097GB	75.00	70.00	75.00	9.70	2.50	16.90
G075070150GB*	75.00	70.00	75.00	15.00	2.50	25.46
G080072060GB	80.00	72.00	80.00	6.00	4.00	18.78
G080072120GB	80.00	72.00	80.00	12.00	4.00	30.30
G080075056GB*	80.00	75.00	80.00	5.60	2.50	11.62
G080075095GB	80.00	75.00	80.00	9.50	2.50	18.40
G080075097GB	80.00	75.00	80.00	9.70	2.50	18.03
G080075150GB*	80.00	75.00	80.00	15.00	2.50	27.16
G085080095GB	85.00	80.00	85.00	9.50	2.50	19.17
G085080097GB	85.00	80.00	85.00	9.70	2.50	19.16
G085080150GB*	85.00	80.00	85.00	15.00	2.50	28.86
G090085097GB*	90.00	85.00	90.00	9.70	2.50	20.28
G090085150GB*	90.00	85.00	90.00	15.00	2.50	30.56
G095087060GB	95.00	87.00	95.00	6.00	4.00	20.80
G095090097GB	95.00	90.00	95.00	9.70	2.50	21.41
G095090150GB*	95.00	90.00	95.00	15.00	2.50	32.25
G100092060GB*	100.00	92.00	100.00	6.00	4.00	23.48
G100092097GB*	100.00	92.00	100.00	9.70	4.00	43.59
G100095056GB*	100.00	95.00	100.00	5.60	2.50	14.53
G100095097GB	100.00	95.00	100.00	9.70	2.50	22.54
G100095150GB	100.00	95.00	100.00	15.00	2.50	33.95
G100095300GB	100.00	95.00	100.00	30.00	2.50	93.55
G105097060GB*	105.00	97.00	105.00	6.00	4.00	24.65
G105100097GB*	105.00	100.00	105.00	9.70	2.50	23.66
G105100150GB	105.00	100.00	105.00	15.00	2.50	35.65
G110102050GB	110.00	102.00	110.00	5.00	4.00	39.60
G110102060GB*	110.00	102.00	110.00	6.00	4.00	25.82

*** : 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	
G110102080GB	110.00	102.00	110.00	8.00	4.00	32.44
G110102150GB	110.00	102.00	110.00	15.00	4.00	78.07
G110105097GB	110.00	105.00	110.00	9.70	2.50	24.79
G110105150GB*	110.00	105.00	110.00	15.00	2.50	37.35
G115107060GB*	115.00	107.00	115.00	6.00	4.00	27.00
G115107080GB*	115.00	107.00	115.00	8.00	4.00	35.64
G115110097GB*	115.00	110.00	115.00	9.70	2.50	25.92
G115110150GB	115.00	110.00	115.00	15.00	2.50	39.05
G120112050GB	120.00	112.00	120.00	5.00	4.00	39.86
G120112060GB*	120.00	112.00	120.00	6.00	4.00	26.56
G120112080GB*	120.00	112.00	120.00	8.00	4.00	25.90
G120112097GB*	120.00	112.00	120.00	9.70	4.00	27.04
G120115097GB	120.00	115.00	120.00	9.70	2.50	27.04
G120115150GB*	120.00	115.00	120.00	15.00	2.50	40.74
G125117060GB	125.00	117.00	120.00	6.00	4.00	31.31
G125117080GB*	125.00	117.00	125.00	8.00	4.00	26.98
G125117097GB*	125.00	117.00	125.00	9.70	4.00	46.89
G125117150GB	125.00	117.00	125.00	15.00	4.00	26.26
G125120056GB*	125.00	120.00	125.00	5.60	2.50	18.16
G125120095GB*	125.00	120.00	125.00	9.50	2.50	28.19
G125120097GB*	125.00	120.00	125.00	9.70	2.50	28.17
G125120150GB*	125.00	120.00	125.00	15.00	2.50	42.44
G127122097GB*	127.00	122.00	127.00	9.70	2.50	27.49
G130122050GB	130.00	122.00	130.00	5.00	4.00	39.02
G130122060GB	130.00	122.00	130.00	6.00	4.00	39.70
G130122080GB*	130.00	122.00	130.00	8.00	4.00	40.28
G130122097GB*	130.00	122.00	130.00	9.70	4.00	48.76
G130125080GB*	130.00	125.00	130.00	8.00	2.50	24.65
G130125097GB*	130.00	125.00	130.00	9.70	2.50	29.30
G130125150GB*	130.00	125.00	130.00	15.00	2.50	44.14
G135127060GB*	135.00	127.00	135.00	6.00	4.00	29.32
G135127080GB*	135.00	127.00	135.00	8.00	4.00	27.98
G135127097GB*	135.00	127.00	135.00	9.70	4.00	32.79
G135130097GB*	135.00	130.00	135.00	9.70	2.50	30.42
G135130150GB*	135.00	130.00	135.00	15.00	2.50	45.84
G140132080GB*	140.00	132.00	140.00	8.00	4.00	28.34
G140132090GB*	140.00	132.00	140.00	9.00	4.00	48.43
G140132097GB*	140.00	132.00	140.00	9.70	4.00	33.86
G140135097GB	140.00	135.00	140.00	9.70	2.50	31.55
G140135150GB*	140.00	135.00	140.00	15.00	2.50	47.53
G145137080GB*	145.00	137.00	145.00	8.00	4.00	44.93
G145137097GB*	145.00	137.00	145.00	9.70	4.00	35.85
G145140095GB*	145.00	140.00	145.00	9.50	2.50	32.70
G145140097GB*	145.00	140.00	145.00	9.70	2.50	32.68
G145140150GB*	145.00	140.00	145.00	15.00	2.50	49.23
G145140200GB	145.00	140.00	145.00	20.00	2.50	64.06
G145140250GB*	145.00	140.00	145.00	25.00	2.50	80.40
G150142080GB*	150.00	142.00	150.00	8.00	4.00	31.30
G150142097GB*	150.00	142.00	150.00	9.70	4.00	37.58
G150145097GB	150.00	145.00	150.00	9.70	2.50	33.80
G150145150GB*	150.00	145.00	150.00	15.00	2.50	50.93
G150145250GB*	150.00	145.00	150.00	25.00	2.50	83.18
G155150097GB*	155.00	150.00	155.00	9.70	2.50	34.93
G155150150GB*	155.00	150.00	155.00	15.00	2.50	52.63
G155150200GB	155.00	150.00	155.00	20.00	2.50	68.48
G155150250GB*	155.00	150.00	155.00	25.00	2.50	85.95
G160152080GB*	160.00	152.00	160.00	8.00	4.00	49.58
G160152090GB*	160.00	152.00	160.00	9.00	4.00	55.35
G160152097GB*	160.00	152.00	160.00	9.70	4.00	38.46
G160155097GB*	160.00	155.00	160.00	9.70	2.50	36.06
G160155150GB*	160.00	155.00	160.00	15.00	2.50	54.32
G160155250GB*	160.00	155.00	160.00	25.00	2.50	88.72
G165157097GB*	165.00	157.00	165.00	8.00	4.00	58.87
G165157097GB	165.00	157.00	165.00	9.70	4.00	61.89
G165160097GB*	165.00	160.00	165.00	9.70	2.50	37.18
G165160150GB*	165.00	160.00	165.00	15.00	2.50	56.02
G165160200GB	165.00	160.00	165.00	20.00	2.50	71.99
G165160250GB*	165.00	160.00	165.00	25.00	2.50	91.49
G170162080GB	170.00	162.00	170.00	8.00	4.00	52.68
G170162090GB*	170.00	162.00	170.00	9.00	4.00	58.81
G170162097GB*	170.00	162.00	170.00	9.70	4.00	47.10
G170165097GB*	170.00	165.00	170.00	9.70	2.50	38.31
G170165150GB	170.00	165.00	170.00	15.00	2.50	57.72
G170165250GB*	170.00	165.00	170.00	25.00	2.50	94.27
G175170056GB*	175.00	170.00	175.00	5.60	2.50	25.43
G175170097GB*	175.00	170.00	175.00	9.70	2.50	39.44
G175170150GB*	175.00	170.00	175.00	15.00	2.50	59.42
G175170200GB	175.00	170.00	175.00	20.00	2.50	84.10
G175170250GB*	175.00	170.00	175.00	25.00	2.50	97.04
G180172080GB*	180.00	172.00	180.00	8.00	4.00	55.78
G180172090GB	180.00	172.00	180.00	9.00	4.00	64.88
G180172097GB*	180.00	172.00	180.00	9.70	4.00	67.52
G180175097GB*	180.00	175.00	180.00	9.70	2.50	40.56
G180175150GB*	180.00	175.00	180.00	15.00	2.50	61.11
G180175250GB*	180.00	175.00	180.00	25.00	2.50	99.81
G185180097GB*	185.00	180.00	185.00	9.70	2.50	41.69
G185180150GB*	185.00	180.00	185.00	15.00	2.50	62.81
G185180250GB	185.00	180.00	185.00	25.00	2.50	102.58
G190182080GB*	190.00	182.00	190.00	8.00	4.00	42.11
G190182090GB	190.00	182.00	190.00	9.00	4.00	48.99
G190182097GB*	190.00	182.00	190.00	9.70	4.00	48.99
G190185040GB	190.00	185.00	190.00	4.00	2.50	21.71
G190185097GB*	190.00	185.00	190.00	9.70	2.50	42.82
G190185150GB*	190.00	185.00	190.00	15.00	2.50	64.51
G190185250GB*	190.00	185.00	190.00	25.00	2.50	105.36
G195190097GB*	195.00	190.00	195.00	9.70	2.50	43.95

*** : 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	
G195190150GB*	195.00	190.00	195.00	15.00	2.50	66.21
G195190250GB*	195.00	190.00	195.00	25.00	2.50	108.13
G200192080GB*	200.00	192.00	200.00	8.00	4.00	61.97
G200192090GB*	200.00	192.00	200.00	9.00	4.00	69.19
G200192097GB*	200.00	192.00	200.00	9.70	4.00	75.02
G200195097GB*	200.00	195.00	200.00	9.70	2.50	45.07
G200195150GB*	200.00	195.00	200.00	15.00	2.50	67.90
G200195250GB*	200.00	195.00	200.00	25.00	2.50	110.90
G200197200GB/GF15*	200.00	197.00	200.00	20.00	1.50	149.56
G205200150GB*	205.00	200.00	205.00	15.00	2.50	69.60
G205200250GB	205.00	200.00	205.00	25.00	2.50	113.67
G210202090GB*	210.00	202.00	210.00	9.00	4.00	72.93
G210205150GB*	210.00	205.00	210.00	15.00	2.50	71.30
G210205250GB*	210.00	205.00	210.00	25.00	2.50	116.45
G215207097GB*	215.00	207.00	215.00	9.70	4.00	80.65
G215210150GB*	215.00	210.00	215.00	15.00	2.50	73.00
G215210250GB	215.00	210.00	215.00	25.00	2.50	119.22
G220212090GB*	220.00	212.00	220.00	9.00	4.00	76.11
G220215097GB*	220.00	215.00	220.00	9.70	2.50	39.66
G220215150GB*	220.00	215.00	220.00	15.00	2.50	59.76
G220215250GB*	220.00	215.00	220.00	25.00	2.50	97.59
G225217097GB*	225.00	217.00	225.00	9.70	4.00	67.52
G225220150GB*	225.00	220.00	225.00	15.00	2.50	61.11
G225220250GB*	225.00	220.00	225.00	25.00	2.50	99.81
G230222150GB	230.00	222.00	230.00	15.00	4.00	131.68
G230225150GB*	230.00	225.00	230.00	15.00	2.50	62.47
G230225250GB*	230.00	225.00	230.00	25.00	2.50	102.03
G235230150GB*	235.00	230.00	235.00	15.00	2.50	63.83
G235230250GB	235.00	230.00	235.00	25.00	2.50	104.25
G240232150GB*	240.00	232.00	240.00	15.00	4.00	103.62
G240235150GB*	240.00	235.00	240.00	15.00	2.50	65.19
G240235250GB*	240.00	235.00	240.00	25.00	2.50	106.46
G245240150GB*	245.00	240.00	245.00	15.00	2.50	66.55
G245240250GB*	245.00	240.00	245.00	25.00	2.50	108.68
G250242150GB*	250.00	242.00	250.00	15.00	4.00	107.94
G250245097GB*	250.00	245.00	250.00	9.70	2.50	45.07
G250245150GB*	250.00	245.00	250.00	15.00	2.50	67.90
G250245250GB*	250.00	245.00	250.00	25.00	2.50	110.90
G255250150GB*	255.00	250.00	255.00	15.00	2.50	69.26
G255250250GB*	255.00	250.00	255.00	25.00	2.50	113.12
G255250250GB/GL15	255.00	250.00	255.00	25.00	2.50	124.17
G260252150GB	260.00	252.00	260.00	15.00	4.00	136.14
G260255150GB*	260.00	255.00	260.00	15.00	2.50	70.62
G260255250GB*	260.00	255.00	260.00	25.00	2.50	115.34
G265260150GB*	265.00	260.00	265.00	15.00	2.50	71.98
G265260250GB	265.00	260.00	265.00	25.00	2.50	117.55
G270265150GB*	270.00	265.00	270.00	15.00	2.50	73.34
G270265250GB*	270.00	265.00	270.00	25.00	2.50	119.77

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G275270150GB*	275.00	270.00	275.00	15.00	2.50	74.70
G275270250GB*	275.00	270.00	275.00	25.00	2.50	121.99
G280272150GB*	280.00	272.00	280.00	15.00	4.00	120.89
G280272250GB*	280.00	272.00	280.00	25.00	4.00	171.16
G280275150GB*	280.00	275.00	280.00	15.00	2.50	66.55
G280275250GB*	280.00	275.00	280.00	25.00	2.50	108.68
G285280150GB*	285.00	280.00	285.00	15.00	2.50	67.73
G285280250GB*	285.00	280.00	285.00	25.00	2.50	67.73
G288280250GB*	288.00	280.00	288.00	25.00	4.00	176.05
G290285150GB*	290.00	285.00	290.00	15.00	2.50	68.92
G290285250GB*	290.00	285.00	290.00	25.00	2.50	112.56
G295290150GB*	295.00	290.00	295.00	15.00	2.50	70.11
G295290250GB*	295.00	290.00	295.00	25.00	2.50	114.51
G300292195GB*	300.00	292.00	300.00	19.50	4.00	121.25
G300292200GB*	300.00	292.00	300.00	20.00	4.00	151.01
G300295150GB*	300.00	295.00	300.00	15.00	2.50	71.30
G300295250GB*	300.00	295.00	300.00	25.00	2.50	116.45
G305300097GB*	305.00	300.00	305.00	9.70	2.70	82.71
G305300250GB*	305.00	300.00	305.00	25.00	2.50	118.39
G308300097GB*	308.00	300.00	308.00	9.70	4.00	80.87
G310302195GB	310.00	302.00	310.00	19.50	4.00	185.35
G310305250GB*	310.00	305.00	310.00	25.00	2.50	120.33
G315310250GB*	315.00	310.00	315.00	25.00	2.50	122.27
G320312250GB*	320.00	312.00	320.00	25.00	4.00	195.61
G320315150GB*	320.00	315.00	320.00	15.00	2.50	76.05
G320315250GB*	320.00	315.00	320.00	25.00	2.50	124.21
G325320150GB*	325.00	320.00	325.00	15.00	2.50	77.24
G325320250GB*	325.00	320.00	325.00	25.00	2.50	126.15
G328320250GB*	328.00	320.00	328.00	25.00	4.00	200.50
G330322095GB*	330.00	322.00	330.00	9.50	4.00	107.99
G330325250GB*	330.00	325.00	330.00	25.00	2.50	128.09
G335330250GB*	335.00	330.00	335.00	25.00	2.50	130.03
G340332250GB/GL15	340.00	332.00	340.00	25.00	4.00	215.47
G340335250GB*	340.00	335.00	340.00	25.00	2.50	131.97
G345340250GB*	345.00	340.00	345.00	25.00	2.50	133.91
G350338100GB	350.00	338.00	350.00	10.00	6.00	293.41
G350342097GB	350.00	342.00	350.00	9.70	4.00	150.04
G350345250GB*	350.00	345.00	350.00	25.00	2.50	135.85
G355350250GB*	355.00	350.00	355.00	25.00	2.50	137.79
G360352250GB	360.00	352.00	360.00	25.00	4.00	220.06
G360355150GB*	360.00	355.00	360.00	15.00	2.50	85.56
G360355250GB*	360.00	355.00	360.00	25.00	2.50	139.74
G365360150GB*	365.00	360.00	365.00	15.00	2.50	86.75
G365360250GB*	365.00	360.00	365.00	25.00	2.50	141.68
G368360250GB*	368.00	360.00	368.00	25.00	4.00	224.95
G370365250GB*	370.00	365.00	370.00	25.00	2.50	143.62
G375370250GB*	375.00	370.00	375.00	25.00	2.50	145.56
G380375250GB*	380.00	375.00	380.00	25.00	2.50	147.50

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

GB SERIES - BR.PTFE

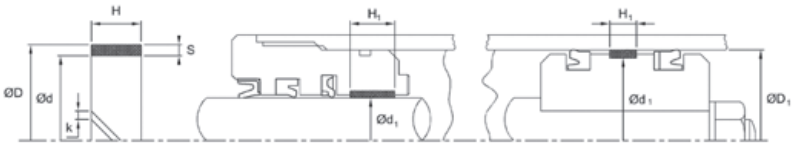
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G385380250GB*	385.00	380.00	385.00	25.00	2.50	149.44
G390385250GB*	390.00	385.00	390.00	25.00	2.50	151.38
G395390250GB*	395.00	390.00	395.00	25.00	2.50	153.32
G400392097GB*	400.00	392.00	400.00	9.70	4.00	105.03
G400392250GB*	400.00	392.00	400.00	25.00	4.00	244.52
G400395150GB*	400.00	395.00	400.00	15.00	2.50	95.07
G400395250GB*	400.00	395.00	400.00	25.00	2.50	155.26
G405400250GB*	405.00	400.00	405.00	25.00	2.50	157.20
G410405250GB*	410.00	405.00	410.00	25.00	2.50	159.14
G415410250GB*	415.00	410.00	415.00	25.00	2.50	161.08
G420415250GB*	420.00	415.00	420.00	25.00	2.50	163.02
G425420250GB*	425.00	420.00	425.00	25.00	2.50	164.97
G430425250GB*	430.00	425.00	430.00	25.00	2.50	166.91
G435430250GB*	435.00	430.00	435.00	25.00	2.50	168.85
G440435250GB*	440.00	435.00	440.00	25.00	2.50	170.79
G445440250GB*	445.00	440.00	445.00	25.00	2.50	172.73

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G450442250GB*	450.00	442.00	450.00	25.00	4.00	275.08
G450445150GB*	450.00	445.00	450.00	15.00	2.50	106.95
G450445250GB*	450.00	445.00	450.00	25.00	2.50	174.67
G455450250GB*	455.00	450.00	455.00	25.00	2.50	176.61
G460455250GB*	460.00	455.00	460.00	25.00	2.50	178.55
G465460250GB*	465.00	460.00	465.00	25.00	2.50	180.49
G470465250GB*	470.00	465.00	470.00	25.00	2.50	182.43
G475470250GB*	475.00	470.00	475.00	25.00	2.50	184.37
G480475250GB*	480.00	475.00	480.00	25.00	2.50	186.31
G485480250GB*	485.00	480.00	485.00	25.00	2.50	188.25
G490485250GB*	490.00	485.00	490.00	25.00	2.50	190.20
G495490250GB*	495.00	490.00	495.00	25.00	2.50	192.14
G500492250GB*	500.00	492.00	500.00	25.00	4.00	305.64
G500495150GB*	500.00	495.00	500.00	15.00	2.50	118.83
G500495250GB*	500.00	495.00	500.00	25.00	2.50	194.08

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

GB/N - Guiding Elements

GF. Nylon



Temperature: -40/250F [-40/121C]

Pressure: Compressive Strength

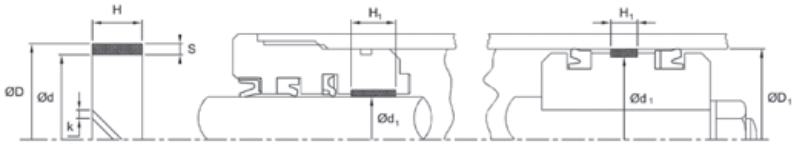
Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G035031080GB/N	35.00	31.00	35.00	8.00	2.00	6.59
G070065097GB/N	70.00	65.00	70.00	9.70	2.50	12.45
G080075200GB/N*	80.00	75.00	80.00	20.00	2.50	23.20
G090081125GB/N	90.00	81.00	90.00	12.50	4.50	26.40
G090082060GB/N	90.00	82.00	90.00	6.00	4.00	21.18
G090084250GB/N*	90.00	84.00	90.00	25.00	3.00	15.75
G100094060GB/N	100.00	94.00	100.00	6.00	3.00	18.32
G100094125GB/N*	100.00	94.00	100.00	12.50	3.00	25.29
G100094225GB/N*	100.00	94.00	100.00	22.50	3.00	26.34
G100094250GB/N*	100.00	94.00	100.00	25.00	3.00	15.75
G110101125GB/N*	110.00	101.00	110.00	12.50	4.50	38.89
G110102060GB/N	110.00	102.00	110.00	6.00	4.00	21.49
G110104060GB/N*	110.00	104.00	110.00	6.00	3.00	19.53
G110104125GB/N	110.00	104.00	110.00	12.50	3.00	25.45
G110104150GB/N*	110.00	104.00	110.00	15.00	3.00	25.89
G110104225GB/N*	110.00	104.00	110.00	22.50	3.00	26.96
G110104272GB/N	110.00	104.00	110.00	27.20	3.00	41.17
G110104300GB/N	110.00	104.00	110.00	30.00	3.00	23.46
G115106150GB/N	115.00	106.00	115.00	15.00	4.50	45.85
G118110500GB/N	118.00	110.00	118.00	50.00	4.00	69.11
G120111150GB/N*	120.00	111.00	120.00	15.00	4.50	48.56
G120114060GB/N	120.00	114.00	120.00	6.00	3.00	20.23
G120114155GB/N	120.00	114.00	120.00	15.50	3.00	20.24
G120114225GB/N	120.00	114.00	120.00	22.50	3.00	29.56
G120114275GB/N	120.00	114.00	120.00	27.50	3.00	37.15
G120114300GB/N*	120.00	114.00	120.00	30.00	3.00	24.36
G120114350GB/N	120.00	114.00	120.00	35.00	3.00	46.67
G125119200GB/N*	125.00	119.00	125.00	20.00	3.00	18.95
G130122075GB/N	130.00	122.00	130.00	7.50	4.00	27.75
G130123080GB/N	130.00	123.00	130.00	8.00	3.50	23.52
G130123150GB/N*	130.00	123.00	130.00	15.00	3.50	28.92
G130123180GB/N	130.00	123.00	130.00	18.00	3.50	35.74
G130123300GB/N	130.00	123.00	130.00	30.00	3.50	36.92
G130123400GB/N*	130.00	123.00	130.00	40.00	3.50	57.74

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G130125095GB/N	130.00	125.00	130.00	9.50	2.50	45.55
G135125150GB/N*	135.00	125.00	135.00	15.00	5.00	53.26
G135128185GB/N*	135.00	128.00	135.00	18.50	3.50	19.38
G140132080GB/N	140.00	132.00	140.00	8.00	4.00	30.30
G140133450GB/N	140.00	133.00	140.00	45.00	3.50	59.31
G140134150GB/N	140.00	134.00	140.00	15.00	3.00	18.67
G140134200GB/N	140.00	134.00	140.00	20.00	3.00	19.77
G150143210GB/N	150.00	143.00	150.00	21.00	3.50	22.15
G150143350GB/N	150.00	143.00	150.00	35.00	3.50	54.69
G150143450GB/N*	150.00	143.00	150.00	45.00	3.50	62.80
G160148150GB/N	160.00	148.00	160.00	15.00	6.00	24.71
G160148200GB/N*	160.00	148.00	160.00	20.00	6.00	67.07
G160153400GB/N*	160.00	153.00	160.00	40.00	3.50	57.02
G160153450GB/N	160.00	153.00	160.00	45.00	3.50	65.94
G170162500GB/N	170.00	162.00	170.00	50.00	4.00	91.65
G180168225GB/N	180.00	168.00	180.00	22.50	6.00	73.09
G180172282GB/N	180.00	172.00	180.00	28.20	4.00	49.92
G180172550GB/N	180.00	172.00	180.00	55.00	4.00	103.71
G190182282GB/N	190.00	182.00	190.00	28.20	4.00	51.93
G190182550GB/N	190.00	182.00	190.00	55.00	4.00	82.59
G200188225GB/N	200.00	188.00	200.00	22.50	6.00	70.39
G200192225GB/N	200.00	192.00	200.00	22.50	4.00	38.89
G220212280GB/N	220.00	212.00	220.00	28.00	4.00	97.26
G220213600GB/N	220.00	213.00	220.00	60.00	3.50	176.11
G225213250GB/N	225.00	213.00	225.00	25.00	6.00	89.21
G225217250GB/N	225.00	217.00	225.00	25.00	4.00	78.89
G225217500GB/N	225.00	217.00	225.00	50.00	4.00	79.14
G230224600GB/N	230.00	223.70	230.00	60.00	3.15	90.09
G260248275GB/N*	260.00	248.00	260.00	27.50	6.00	163.61
G280268300GB/N	280.00	268.00	280.00	30.00	6.00	148.74
G280272600GB/N	280.00	272.00	280.00	60.00	4.00	140.41
G300288300GB/N	300.00	288.00	300.00	30.00	6.00	192.32
G3403281800GB/N	340.00	328.00	340.00	180.00	6.00	1278.19

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

GC - Guiding Elements

Phenolic



Compressive Strength

Temperature: -40/248F [-40/120C]

Pressure: 52000 PSI [360 Bar]

Formula for calculating rod wear ring grooves

D1 Min.Groove Dia. = d Max.Rod Dia.
+2 (Max.Wear Ring C/S)
D1 tolerance = +.08/-.00

d1 Min.Throat Dia. = [D1 - 2(Min.Wear Ring C/S)] + 2(Min. Radial Clearance of .13).
d1 tolerance = +.08/-.00

H1 Groove Lenth = Actual Part Height + .25
H1 tolerance = +.025/-.00

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 = +.00/-.13

P Max.Piston Dia. = [d1 Min.Groove Dia. + 2(Min.Wear Ring C/S)] - 2(Min. Radial Clearance of .13).
P tolerance = +.00/-.13

H1 Groove Lenth = Actual Part Height + .25
H1 tolerance = +.25/-.00

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.

GC SERIES - PHENOLIC

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G019016060GC	19.00	16.00	19.00	6.00	1.50	13.77
G020016100GC*	20.00	16.00	20.00	10.00	2.00	13.77
G023020200GC*	23.00	20.00	23.00	20.00	1.50	13.77
G024020095GC	24.00	20.00	24.00	9.50	2.00	13.77
G025022040GC*	25.00	22.00	25.00	4.00	1.50	13.77
G025022100GC*	25.00	22.00	25.00	10.00	1.50	13.77
G030025097GC	30.00	25.00	30.00	9.70	2.50	15.13
G032027060GC	32.00	27.00	32.00	6.00	2.50	15.27
G033028063GC*	33.00	28.00	33.00	6.30	2.50	15.26
G034028100GC	34.00	28.00	34.00	10.00	3.00	15.26
G035030060GC*	35.00	30.00	35.00	6.00	2.50	15.85
G035032042GC	35.00	32.00	35.00	4.20	1.50	16.16
G035032160GC	35.00	32.00	35.00	16.00	1.50	16.16
G036032100GC*	36.00	32.00	36.00	10.00	2.00	16.16
G036032150GC*	36.00	32.00	36.00	15.00	2.00	16.16
G036032200GC	36.00	32.00	36.00	20.00	2.00	16.16
G038035100GC	38.00	35.00	38.00	10.00	1.50	16.65
G040034100GC	40.00	34.00	40.00	10.00	3.00	19.35
G040035056GC*	40.00	35.00	40.00	5.60	2.50	19.35
G040035060GC	40.00	35.00	40.00	6.00	2.50	19.35
G040035097GC	40.00	35.00	40.00	9.70	2.50	19.35
G040036081GC	40.00	36.00	40.00	8.10	2.00	19.35
G040036100GC	40.00	36.00	40.00	10.00	2.00	19.35
G040036200GC	40.00	36.00	40.00	20.00	2.00	21.26
G041035100GC*	41.00	35.00	41.00	10.00	3.00	19.35
G041036063GC	41.00	36.00	41.00	6.30	2.50	18.56
G041036097GC*	41.00	36.00	41.00	9.70	2.50	18.56
G043040160GC	43.00	40.00	43.00	16.00	1.50	15.25
G044040100GC	44.00	40.00	44.00	10.00	2.00	19.35
G044040200GC	44.00	40.00	44.00	20.00	2.00	21.15
G045039100GC*	45.00	39.00	45.00	10.00	3.00	19.35
G045040056GC	45.00	40.00	45.00	5.60	2.50	18.07
G045040060GC	45.00	40.00	45.00	6.00	2.50	18.16
G045040097GC	45.00	40.00	45.00	9.70	2.50	18.27
G045040150GC	45.00	40.00	45.00	15.00	2.50	19.68
G045040200GC	45.00	40.00	45.00	20.00	2.50	19.33
G045040250GC*	45.00	40.00	45.00	25.00	2.50	21.62
G046040095GC	46.00	40.00	46.00	9.50	3.00	19.35
G046040150GC*	46.00	40.00	46.00	15.00	3.00	19.35
G046040200GC	46.00	40.00	46.00	20.00	3.00	21.81
G048045225GC	48.00	45.00	48.00	22.50	1.50	19.32
G050044050GC	50.00	44.00	50.00	5.00	3.00	11.90
G050044100GC	50.00	44.00	50.00	10.00	3.00	19.35
G050044250GC	50.00	44.00	50.00	25.00	3.00	21.81
G050045060GC	50.00	45.00	50.00	6.00	2.50	19.23
G050045063GC	50.00	45.00	50.00	6.30	2.50	19.35
G050045080GC	50.00	45.00	50.00	8.00	2.50	19.35
G050045097GC	50.00	45.00	50.00	9.70	2.50	20.52

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G050045150GC	50.00	45.00	50.00	15.00	2.50	19.43
G050045200GC	50.00	45.00	50.00	20.00	2.50	21.62
G051045097GC*	51.00	45.00	51.00	9.70	3.00	17.60
G051045130GC	51.00	45.00	51.00	13.00	3.00	19.35
G051045220GC	51.00	45.00	51.00	22.00	3.00	21.81
G051045225GC	51.00	45.00	51.00	22.50	3.00	22.42
G053050250GC	53.00	50.00	53.00	25.00	1.50	22.81
G054050120GC	54.00	50.00	54.00	12.00	2.00	19.35
G055050056GC	55.00	50.00	55.00	5.60	2.50	20.33
G055050060GC	55.00	50.00	55.00	6.00	2.50	19.58
G055050097GC	55.00	50.00	55.00	9.70	2.50	19.35
G055050150GC	55.00	50.00	55.00	15.00	2.50	21.23
G055050200GC*	55.00	50.00	55.00	20.00	2.50	21.62
G055050250GC	55.00	50.00	55.00	25.00	2.50	21.62
G055050300GC*	55.00	50.00	55.00	30.00	2.50	22.58
G055051100GC*	55.00	51.00	55.00	10.00	2.00	18.85
G056050130GC	56.00	50.00	56.00	13.00	3.00	19.35
G056050180GC	56.00	50.00	56.00	18.00	3.00	19.67
G056050200GC	56.00	50.00	56.00	20.00	3.00	21.62
G056050250GC	56.00	50.00	56.00	25.00	3.00	23.47
G056050280GC	56.00	50.00	56.00	28.00	3.00	21.84
G056050300GC	56.00	50.00	56.00	30.00	3.00	23.50
G060054130GC	60.00	54.00	60.00	13.00	3.00	19.35
G060055056GC	60.00	55.00	60.00	5.60	2.50	17.02
G060055063GC	60.00	55.00	60.00	6.30	2.50	19.35
G060055060GC*	60.00	55.00	60.00	6.00	2.50	19.87
G060055097GC	60.00	55.00	60.00	9.70	2.50	20.71
G060055150GC	60.00	55.00	60.00	15.00	2.50	22.45
G060056100GC*	60.00	56.00	60.00	10.00	2.00	22.45
G061055127GC*	61.00	55.00	61.00	12.70	3.00	17.60
G062055130GC*	62.00	55.00	62.00	13.00	3.50	19.35
G062056080GC	62.00	56.00	62.00	8.00	3.00	11.98
G062056250GC	62.00	56.00	62.00	25.00	3.00	23.22
G062056280GC	62.00	56.00	62.00	28.00	3.00	23.17
G063057130GC	63.00	57.00	63.00	13.00	3.00	19.35
G063058063GC	63.00	58.00	63.00	6.30	2.50	19.35
G063058097GC	63.00	58.00	63.00	9.70	2.50	19.35
G065055250GC*	65.00	55.00	65.00	25.00	5.00	22.18
G065059150GC*	65.00	59.00	65.00	15.00	3.00	19.35
G065060060GC*	65.00	60.00	65.00	6.00	2.50	20.71
G065060097GC	65.00	60.00	65.00	9.70	2.50	20.84
G065060150GC	65.00	60.00	65.00	15.00	2.50	19.35
G065060200GC	65.00	60.00	65.00	20.00	2.50	21.36
G066060130GC	66.00	60.00	66.00	13.00	3.00	19.35
G066060400GC	66.00	60.00	66.00	40.00	3.00	25.15
G068063097GC*	68.00	63.00	68.00	9.70	2.50	19.80
G068063150GC	68.00	63.00	68.00	15.00	2.50	19.80
G068063250GC*	68.00	63.00	68.00	25.00	2.50	20.36

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

GC SERIES - PHENOLIC

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G069063090GC	69.00	63.00	69.00	9.00	3.00	12.05
G069063130GC	69.00	63.00	69.00	13.00	3.00	19.80
G069063180GC	69.00	63.00	69.00	18.00	3.00	22.16
G069063200GC	69.00	63.00	69.00	20.00	3.00	22.16
G069063280GC	69.00	63.00	69.00	28.00	3.00	24.29
G069063300GC	69.00	63.00	69.00	30.00	3.00	24.06
G069063310GC	69.00	63.00	69.00	31.00	3.00	22.28
G069063315GC	69.00	63.00	69.00	31.50	3.00	20.44
G069063350GC*	69.00	63.00	69.00	35.00	3.00	24.06
G070062120GC	70.00	62.00	70.00	12.00	4.00	22.49
G070064130GC	70.00	64.00	70.00	13.00	3.00	22.65
G070064150GC	70.00	64.00	70.00	15.00	3.00	23.40
G070064200GC	70.00	64.00	70.00	20.00	3.00	24.57
G070065056GC	70.00	65.00	70.00	5.60	2.50	14.34
G070065060GC	70.00	65.00	70.00	6.00	2.50	19.51
G070065077GC	70.00	65.00	70.00	7.70	2.50	15.56
G070065097GC	70.00	65.00	70.00	9.70	2.50	22.00
G070065150GC	70.00	65.00	70.00	15.00	2.50	23.93
G070065200GC	70.00	65.00	70.00	20.00	2.50	26.50
G070065300GC*	70.00	65.00	70.00	30.00	2.50	30.67
G070065450GC*	70.00	65.00	70.00	45.00	2.50	41.91
G070066100GC*	70.00	66.00	70.00	10.00	2.00	18.05
G074068060GC*	74.00	68.00	74.00	6.00	3.00	19.80
G074070080GC	74.00	70.00	74.00	8.00	2.00	14.73
G075067120GC	75.00	67.00	75.00	12.00	4.00	19.80
G075069196GC*	75.00	69.00	75.00	19.60	3.00	21.23
G075070060GC	75.00	70.00	75.00	6.00	2.50	19.83
G075070097GC	75.00	70.00	75.00	9.70	2.50	19.80
G075070100GC	75.00	70.00	75.00	10.00	2.50	19.80
G075070150GC	75.00	70.00	75.00	15.00	2.50	19.80
G075070200GC	75.00	70.00	75.00	20.00	2.50	27.85
G075070300GC	75.00	70.00	75.00	30.00	2.50	28.22
G075070450GC*	75.00	70.00	75.00	45.00	2.50	32.03
G076070130GC	76.00	70.00	76.00	13.00	3.00	19.80
G076070200GC*	76.00	70.00	76.00	20.00	3.00	22.16
G076070300GC*	76.00	70.00	76.00	30.00	3.00	24.06
G076070310GC	76.00	70.00	76.00	31.00	3.00	24.32
G076070350GC	76.00	70.00	76.00	35.00	3.00	23.76
G076070381GC	76.00	70.00	76.00	38.10	3.00	24.06
G076070500GC	76.00	70.00	76.00	50.00	3.00	25.51
G080072120GC	80.00	72.00	80.00	12.00	4.00	23.59
G080073100GC-1	80.00	73.76	80.00	10.00	3.12	14.46
G080074100GC	80.00	74.00	80.00	10.00	3.00	15.42
G080074125GC*	80.00	74.00	80.00	12.50	3.00	23.84
G080074130GC*	80.00	74.00	80.00	13.00	3.00	24.43
G080074150GC	80.00	74.00	80.00	15.00	3.00	24.70
G080074200GC	80.00	74.00	80.00	20.00	3.00	24.83
G080074250GC	80.00	74.00	80.00	25.00	3.00	25.47

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G080074300GC	80.00	74.00	80.00	30.00	3.00	27.88
G080075078GC	80.00	75.00	80.00	7.80	2.50	17.22
G080075097GC	80.00	75.00	80.00	9.70	2.50	23.41
G080075100GC	80.00	75.00	80.00	10.00	2.50	23.56
G080075150GC	80.00	75.00	80.00	15.00	2.50	24.71
G080075200GC	80.00	75.00	80.00	20.00	2.50	25.90
G080075250GC	80.00	75.00	80.00	25.00	2.50	27.85
G080076075GC	80.00	76.00	80.00	7.50	2.00	19.80
G080076100GC*	80.00	76.00	80.00	10.00	2.00	20.33
G085079125GC	85.00	79.00	85.00	12.50	3.00	18.28
G085079200GC*	85.00	79.00	85.00	20.00	3.00	34.07
G085079250GC*	85.00	79.00	85.00	25.00	3.00	41.81
G085080097GC	85.00	80.00	85.00	9.70	2.50	25.09
G085080150GC	85.00	80.00	85.00	15.00	2.50	21.41
G085080250GC*	85.00	80.00	85.00	25.00	2.50	25.47
G085080350GC*	85.00	80.00	85.00	35.00	2.50	23.97
G086080130GC	86.00	80.00	86.00	13.00	3.00	21.41
G086080200GC*	86.00	80.00	86.00	20.00	3.00	24.15
G086080250GC*	86.00	80.00	86.00	25.00	3.00	24.15
G086080350GC	86.00	80.00	86.00	35.00	3.00	25.37
G086080400GC	86.00	80.00	86.00	40.00	3.00	42.20
G086080500GC	86.00	80.00	86.00	50.00	3.00	43.26
G090082080GC	90.00	82.00	90.00	8.00	4.00	20.68
G090082150GC	90.00	82.00	90.00	15.00	4.00	27.80
G090083150GC*	90.00	83.00	90.00	15.00	3.50	27.80
G090083150GC-1	90.00	83.70	90.00	15.00	3.15	18.60
G090083300GC*	90.00	83.00	90.00	30.00	3.50	34.22
G090084100GC	90.00	84.00	90.00	10.00	3.00	24.59
G090084125GC	90.00	84.00	90.00	12.50	3.00	25.03
G090084130GC*	90.00	84.00	90.00	13.00	3.00	27.17
G090084150GC	90.00	84.00	90.00	15.00	3.00	28.11
G090084200GC	90.00	84.00	90.00	20.00	3.00	28.83
G090084250GC	90.00	84.00	90.00	25.00	3.00	29.21
G090084300GC	90.00	84.00	90.00	30.00	3.00	34.99
G090085060GC	90.00	85.00	90.00	6.00	2.50	21.42
G090085080GC*	90.00	85.00	90.00	8.00	2.50	21.96
G090085097GC	90.00	85.00	90.00	9.70	2.50	23.05
G090085150GC	90.00	85.00	90.00	15.00	2.50	28.75
G090086150GC*	90.00	86.00	90.00	15.00	2.00	28.75
G091085250GC*	91.00	85.00	91.00	25.00	3.00	26.04
G095086125GC	95.00	86.00	95.00	12.50	4.50	21.92
G095089130GC	95.00	89.00	95.00	13.00	3.00	23.15
G095090060GC	95.00	90.00	95.00	6.00	2.50	23.86
G095090080GC*	95.00	90.00	95.00	8.00	2.50	21.55
G095090097GC	95.00	90.00	95.00	9.70	2.50	21.55
G095090150GC	95.00	90.00	95.00	15.00	2.50	21.94
G095090250GC	95.00	90.00	95.00	25.00	2.50	25.23
G096090130GC	96.00	90.00	96.00	13.00	3.00	23.15

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

GC SERIES - PHENOLIC

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G096090250GC	96.00	90.00	96.00	25.00	3.00	26.04
G096090290GC	96.00	90.00	96.00	29.00	3.00	26.04
G096090300GC	96.00	90.00	96.00	30.00	3.00	26.84
G096090400GC	96.00	90.00	96.00	40.00	3.00	30.01
G100092100GC	100.00	92.00	100.00	10.00	4.00	21.74
G100092150GC*	100.00	92.00	100.00	15.00	4.00	23.15
G100093150GC-1	100.00	93.70	100.00	15.00	3.15	19.51
G100094098GC	100.00	94.00	100.00	9.80	3.00	20.71
G100094125GC	100.00	94.00	100.00	12.50	3.00	18.71
G100094130GC	100.00	94.00	100.00	13.00	3.00	23.15
G100094150GC	100.00	94.00	100.00	15.00	3.00	26.05
G100094200GC*	100.00	94.00	100.00	20.00	3.00	29.89
G100094250GC	100.00	94.00	100.00	25.00	3.00	31.79
G100094282GC*	100.00	94.00	100.00	28.30	3.00	33.55
G100094300GC	100.00	94.00	100.00	30.00	3.00	33.76
G100094400GC*	100.00	94.00	100.00	40.00	3.00	34.87
G100095060GC	100.00	95.00	100.00	6.00	2.50	20.59
G100095080GC	100.00	95.00	100.00	8.00	2.50	23.05
G100095097GC	100.00	95.00	100.00	9.70	2.50	23.16
G100095125GC*	100.00	95.00	100.00	12.50	2.50	25.90
G100095150GC	100.00	95.00	100.00	15.00	2.50	29.43
G100095250GC*	100.00	95.00	100.00	25.00	2.50	34.07
G100096150GC	100.00	96.00	100.00	15.00	2.00	29.44
G105096125GC	105.00	96.00	105.00	12.50	4.50	30.15
G105099150GC*	105.00	99.00	105.00	15.00	3.00	29.44
G105099250GC*	105.00	99.00	105.00	25.00	3.00	37.44
G105100060GC	105.00	100.00	105.00	6.00	2.50	25.67
G105100080GC*	105.00	100.00	105.00	8.00	2.50	23.16
G105100097GC	105.00	100.00	105.00	9.70	2.50	23.00
G105100150GC	105.00	100.00	105.00	15.00	2.50	32.94
G106100130GC	106.00	100.00	106.00	13.00	3.00	23.15
G106100200GC	106.00	100.00	106.00	20.00	3.00	26.35
G110102150GC	110.00	102.00	110.00	15.00	4.00	30.15
G110104100GC*	110.00	104.00	110.00	10.00	3.00	26.04
G110104130GC*	110.00	104.00	110.00	13.00	3.00	26.04
G110104150GC	110.00	104.00	110.00	15.00	3.00	32.80
G110104160GC	110.00	104.00	110.00	16.00	3.00	32.80
G110104250GC	110.00	104.00	110.00	25.00	3.00	35.38
G110104300GC	110.00	104.00	110.00	30.00	3.00	35.53
G110104350GC	110.00	104.00	110.00	35.00	3.00	41.67
G110105060GC	110.00	105.00	110.00	6.00	2.50	25.67
G110105080GC	110.00	105.00	110.00	8.00	2.50	25.67
G110105097GC	110.00	105.00	110.00	9.70	2.50	25.67
G110105150GC	110.00	105.00	110.00	15.00	2.50	32.80
G110105200GC	110.00	105.00	110.00	20.00	2.50	34.61
G110105250GC	110.00	105.00	110.00	25.00	2.50	35.38
G111105180GC	111.00	105.00	111.00	18.00	3.00	28.62
G114108130GC*	114.00	108.00	114.00	13.00	3.00	26.04

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G115106150GC	115.00	106.00	115.00	15.00	4.50	28.22
G115107150GC	115.00	107.00	115.00	15.00	4.00	33.96
G115109060GC	115.00	109.00	115.00	6.00	3.00	22.64
G115109150GC	115.00	109.00	115.00	15.00	3.00	33.96
G115109150GC-1	115.00	108.70	115.00	15.00	3.15	33.97
G115109250GC	115.00	109.00	115.00	25.00	3.00	28.62
G115110080GC	115.00	110.00	115.00	8.00	2.50	33.96
G115110097GC	115.00	110.00	115.00	9.70	2.50	33.97
G115110145GC	115.00	110.00	115.00	14.50	2.50	33.96
G115110150GC	115.00	110.00	115.00	15.00	2.50	28.62
G115110250GC	115.00	110.00	115.00	25.00	2.50	29.04
G115112150GC*	115.00	112.00	115.00	15.00	1.50	25.41
G116110130GC	116.00	110.00	116.00	13.00	3.00	26.04
G116110200GC*	116.00	110.00	116.00	20.00	3.00	28.62
G116110400GC*	116.00	110.00	116.00	40.00	3.00	35.52
G118110300GC	118.00	110.00	118.00	30.00	4.00	29.14
G120110147GC	120.00	110.00	120.00	14.70	5.00	26.04
G120112060GC	120.00	112.00	120.00	6.00	4.00	11.42
G120112100GC*	120.00	112.00	120.00	10.00	4.00	22.80
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	28.61
G120114130GC	120.00	114.00	120.00	13.00	3.00	26.04
G120114150GC	120.00	114.00	120.00	15.00	3.00	26.04
G120114195GC*	120.00	114.00	120.00	19.50	3.00	28.62
G120114200GC	120.00	114.00	120.00	20.00	3.00	28.62
G120114250GC*	120.00	114.00	120.00	25.00	3.00	28.62
G120114300GC	120.00	114.00	120.00	30.00	3.00	34.45
G120114350GC*	120.00	114.00	120.00	35.00	3.00	36.50
G120114350GC-1*	120.00	114.00	120.00	35.00	3.00	25.75
G120114400GC*	120.00	114.00	120.00	40.00	3.00	37.87
G120115080GC	120.00	115.00	120.00	8.00	2.50	21.70
G120115097GC	120.00	115.00	120.00	9.70	2.50	21.70
G120115150GC	120.00	115.00	120.00	15.00	2.50	26.04
G120115250GC*	120.00	115.00	120.00	25.00	2.50	21.70
G121115200GC*	121.00	115.00	121.00	20.00	3.00	28.62
G125115147GC*	125.00	115.00	125.00	14.70	5.00	26.04
G125118150GC*	125.00	118.00	125.00	15.00	3.50	27.66
G125119097GC	125.00	119.00	125.00	9.70	3.00	24.57
G125119125GC	125.00	119.00	125.00	12.50	3.00	26.05
G125119130GC	125.00	119.00	125.00	13.00	3.00	26.04
G125119150GC	125.00	119.00	125.00	15.00	3.00	28.95
G125119250GC*	125.00	119.00	125.00	25.00	3.00	35.53
G125119300GC*	125.00	119.00	125.00	30.00	3.00	35.53
G125119350GC	125.00	119.00	125.00	35.00	3.00	39.73
G125119400GC*	125.00	119.00	125.00	40.00	3.00	46.12
G125120080GC	125.00	120.00	125.00	8.00	2.50	24.57
G125120091GC	125.00	120.00	125.00	9.10	2.50	21.30
G125120097GC	125.00	120.00	125.00	9.70	2.50	24.57

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GC SERIES - PHENOLIC

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G125120150GC	125.00	120.00	125.00	15.00	2.50	28.95
G125120250GC*	125.00	120.00	125.00	25.00	2.50	28.95
G125121200GC	125.00	121.00	125.00	20.00	2.00	42.52
G126120500GC*	126.00	120.00	126.00	50.00	3.00	26.04
G128120350GC*	128.00	120.00	128.00	35.00	4.00	40.53
G130120150GC	130.00	120.00	130.00	15.00	5.00	29.74
G130122080GC	130.00	122.00	130.00	8.00	4.00	12.93
G130123300GC	130.00	123.00	130.00	30.00	3.50	44.46
G130123400GC	130.00	123.00	130.00	40.00	3.50	41.32
G130124300GC*	130.00	124.00	130.00	30.00	3.00	44.46
G130125080GC	130.00	125.00	130.00	8.00	2.50	27.02
G130125097GC	130.00	125.00	130.00	9.70	2.50	27.02
G130125150GC	130.00	125.00	130.00	15.00	2.50	29.74
G130125200GC	130.00	125.00	130.00	20.00	2.50	33.55
G130125250GC*	130.00	125.00	130.00	25.00	2.50	35.28
G130125400GC*	130.00	125.00	130.00	40.00	2.50	50.33
G131125130GC*	131.00	125.00	131.00	13.00	3.00	26.04
G131125250GC	131.00	125.00	131.00	25.00	3.00	28.62
G131125300GC	131.00	125.00	131.00	30.00	3.00	30.01
G131125400GC*	131.00	125.00	131.00	40.00	3.00	35.52
G133125450GC*	133.00	125.00	133.00	45.00	4.00	35.52
G134128600GC*	134.00	128.00	134.00	60.00	3.00	54.43
G134130150GC*	134.00	130.00	134.00	15.00	2.00	26.04
G135125150GC	135.00	125.00	135.00	15.00	5.00	33.19
G135127150GC	135.00	127.00	135.00	15.00	4.00	33.19
G135128097GC	135.00	128.00	135.00	9.70	3.50	26.04
G135128150GC	135.00	128.00	135.00	15.00	3.50	33.19
G135128250GC	135.00	128.00	135.00	25.00	3.50	40.07
G135129130GC*	135.00	129.00	135.00	13.00	3.00	27.72
G135130080GC	135.00	130.00	135.00	8.00	2.50	26.04
G135130097GC	135.00	130.00	135.00	9.70	2.50	21.14
G135130150GC	135.00	130.00	135.00	15.00	2.50	33.96
G136130300GC*	136.00	130.00	136.00	30.00	3.00	43.78
G140128125GC*	140.00	128.00	140.00	12.50	6.00	38.89
G140128175GC	140.00	128.00	140.00	17.50	6.00	35.53
G140130400GC*	140.00	130.00	140.00	40.00	5.00	60.33
G140133100GC	140.00	133.00	140.00	10.00	3.50	26.04
G140133150GC*	140.00	133.00	140.00	15.00	3.50	26.04
G140133170GC*	140.00	133.00	140.00	17.00	3.50	35.53
G140133175GC	140.00	133.00	140.00	17.50	3.50	35.52
G140133200GC	140.00	133.00	140.00	20.00	3.50	35.53
G140133350GC	140.00	133.00	140.00	35.00	3.50	58.66
G140133400GC	140.00	133.00	140.00	40.00	3.50	60.34
G140133450GC	140.00	133.00	140.00	45.00	3.50	64.19
G140134130GC	140.00	134.00	140.00	13.00	3.00	30.02
G140134250GC	140.00	134.00	140.00	25.00	3.00	35.52
G140134400GC	140.00	134.00	140.00	40.00	3.00	60.34
G140135080GC	140.00	135.00	140.00	8.00	2.50	26.04
G140135097GC	140.00	135.00	140.00	9.70	2.50	26.04
G140135150GC	140.00	135.00	140.00	15.00	2.50	30.01
G140135200GC	140.00	135.00	140.00	20.00	2.50	35.52
G145136150GC*	145.00	136.00	145.00	15.00	4.50	27.60
G145138097GC	145.00	138.00	145.00	9.70	3.50	29.33
G145138150GC	145.00	138.00	145.00	15.00	3.50	31.07
G145138200GC*	145.00	138.00	145.00	20.00	3.50	31.07
G145139300GC*	145.00	139.00	145.00	30.00	3.00	34.61
G145140097GC	145.00	140.00	145.00	9.70	2.50	23.68
G145140150GC	145.00	140.00	145.00	15.00	2.50	31.07
G145140200GC*	145.00	140.00	145.00	20.00	2.50	34.61
G145140250GC*	145.00	140.00	145.00	25.00	2.50	34.61
G145140300GC	145.00	140.00	145.00	30.00	2.50	34.61
G146140250GC*	146.00	140.00	146.00	25.00	3.00	30.01
G146140300GC	146.00	140.00	146.00	30.00	3.00	30.01
G146140350GC*	146.00	140.00	146.00	35.00	3.00	30.02
G146140600GC*	146.00	140.00	146.00	60.00	3.00	94.62
G150138125GC*	150.00	138.00	150.00	12.50	6.00	41.59
G150138175GC	150.00	138.00	150.00	17.50	6.00	41.94
G150143150GC	150.00	143.00	150.00	15.00	3.50	38.34
G150143175GC	150.00	143.00	150.00	17.50	3.50	34.98
G150143200GC	150.00	143.00	150.00	20.00	3.50	41.94
G150143250GC	150.00	143.00	150.00	25.00	3.50	45.01
G150143300GC*	150.00	143.00	150.00	30.00	3.50	45.01
G150143350GC	150.00	143.00	150.00	35.00	3.50	53.00
G150143400GC	150.00	143.00	150.00	40.00	3.50	60.59
G150143450GC	150.00	143.00	150.00	45.00	3.50	56.58
G150144250GC*	150.00	144.00	150.00	25.00	3.00	53.00
G150144400GC	150.00	144.00	150.00	40.00	3.00	60.59
G150145097GC	150.00	145.00	150.00	9.70	2.50	33.58
G150145100GC*	150.00	145.00	150.00	10.00	2.50	33.58
G150145125GC	150.00	145.00	150.00	12.50	2.50	35.02
G150145150GC	150.00	145.00	150.00	15.00	2.50	38.34
G150145200GC*	150.00	145.00	150.00	20.00	2.50	41.94
G150148150GC*	150.00	148.00	150.00	15.00	1.00	29.46
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
G155150250GC*	155.00	150.00	155.00	25.00	2.50	46.46
G155150850GC	155.00	150.00	155.00	85.00	2.50	89.59
G156150300GC*	156.00	150.00	156.00	30.00	3.00	30.72
G158152600GC*	158.00	152.00	158.00	60.00	3.00	63.14
G160148200GC	160.00	148.00	160.00	20.00	6.00	48.83
G160150250GC*	160.00	150.00	160.00	25.00	5.00	48.83
G160153150GC*	160.00	153.00	160.00	15.00	3.50	45.29
G160153200GC	160.00	153.00	160.00	20.00	3.50	45.28
G160153205GC*	160.00	153.00	160.00	20.50	3.50	45.28
G160153270GC*	160.00	153.00	160.00	27.00	3.50	47.34

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

GC SERIES - PHENOLIC

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G160153350GC	160.00	153.00	160.00	35.00	3.50	47.34
G160153400GC	160.00	153.00	160.00	40.00	3.50	57.40
G160153450GC*	160.00	153.00	160.00	45.00	3.50	69.84
G160154150GC	160.00	154.00	160.00	15.00	3.00	37.18
G160154190GC	160.00	154.00	160.00	19.00	3.00	46.58
G160154191GC*	160.00	154.00	160.00	19.10	3.00	33.52
G160154200GC	160.00	154.00	160.00	20.00	3.00	45.28
G160154250GC	160.00	154.00	160.00	25.00	3.00	45.28
G160154300GC	160.00	154.00	160.00	30.00	3.00	47.34
G160154350GC*	160.00	154.00	160.00	35.00	3.00	47.34
G160154400GC*	160.00	154.00	160.00	40.00	3.00	67.93
G160154500GC	160.00	154.00	160.00	50.00	3.00	67.93
G160155080GC	160.00	155.00	160.00	8.00	2.50	28.83
G160155097GC	160.00	155.00	160.00	9.70	2.50	28.83
G160155100GC*	160.00	155.00	160.00	10.00	2.50	28.83
G160155150GC	160.00	155.00	160.00	15.00	2.50	37.18
G160155150GC-ESC	160.00	155.00	160.00	15.00	2.50	37.18
G160155250GC*	160.00	155.00	160.00	25.00	2.50	29.47
G165157150GC	165.00	157.00	165.00	15.00	4.00	45.15
G165157600GC*	165.00	157.00	165.00	60.00	4.00	53.00
G165158097GC	165.00	158.00	165.00	9.70	3.50	41.04
G165159300GC*	165.00	159.00	165.00	30.00	3.00	47.58
G165160150GC*	165.00	160.00	165.00	15.00	2.50	41.04
G165160200GC*	165.00	160.00	165.00	20.00	2.50	45.15
G165160250GC	165.00	160.00	165.00	25.00	2.50	45.15
G166160200GC*	166.00	160.00	166.00	20.00	3.00	39.32
G166160300GC*	166.00	160.00	166.00	30.00	3.00	66.37
G168160400GC*	168.00	160.00	168.00	40.00	4.00	36.38
G170162097GC	170.00	162.00	170.00	9.70	4.00	29.15
G170162150GC	170.00	162.00	170.00	15.00	4.00	37.11
G170162250GC	170.00	162.00	170.00	25.00	4.00	47.73
G170162400GC*	170.00	162.00	170.00	40.00	4.00	75.84
G170162500GC	170.00	162.00	170.00	50.00	4.00	86.26
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	69.23
G170163400GC*	170.00	163.00	170.00	40.00	3.50	69.23
G170164095GC	170.00	164.00	170.00	9.50	3.00	30.03
G170164500GC*	170.00	164.00	170.00	50.00	3.00	75.84
G170165097GC	170.00	165.00	170.00	9.70	2.50	29.15
G170165100GC*	170.00	165.00	170.00	10.00	2.50	34.99
G170165150GC	170.00	165.00	170.00	15.00	2.50	47.73
G170165250GC	170.00	165.00	170.00	25.00	2.50	62.65
G170165300GC*	170.00	165.00	170.00	30.00	2.50	62.65
G170165450GC	170.00	165.00	170.00	45.00	2.50	64.94
G175170200GC	175.00	170.00	175.00	20.00	2.50	37.61
G175170250GC*	175.00	170.00	175.00	25.00	2.50	37.61
G176170400GC*	176.00	170.00	176.00	40.00	3.00	66.08

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G180170460GC*	180.00	170.00	180.00	46.00	5.00	119.71
G180172090GC	180.00	172.00	180.00	9.00	4.00	25.71
G180172220GC	180.00	172.00	180.00	22.00	4.00	79.44
G180172250GC	180.00	172.00	180.00	25.00	4.00	79.44
G180172400GC*	180.00	172.00	180.00	40.00	4.00	81.05
G180172450GC	180.00	172.00	180.00	45.00	4.00	81.05
G180172550GC	180.00	172.00	180.00	55.00	4.00	85.49
G180173150GC*	180.00	173.00	180.00	15.00	3.50	81.05
G180173270GC*	180.00	173.00	180.00	27.00	3.50	81.05
G180174130GC	180.00	174.00	180.00	13.00	3.00	30.58
G180174150GC	180.00	174.00	180.00	15.00	3.00	25.21
G180174190GC	180.00	174.00	180.00	19.00	3.00	51.79
G180174195GC	180.00	174.00	180.00	19.50	3.00	79.44
G180174200GC	180.00	174.00	180.00	20.00	3.00	79.44
G180174300GC*	180.00	174.00	180.00	30.00	3.00	81.05
G180175080GC*	180.00	175.00	180.00	8.00	2.50	21.90
G180175097GC	180.00	175.00	180.00	9.70	2.50	21.90
G180175100GC*	180.00	175.00	180.00	10.00	2.50	30.58
G180175150GC*	180.00	175.00	180.00	15.00	2.50	27.90
G180175250GC	180.00	175.00	180.00	25.00	2.50	39.67
G181175400GC*	181.00	175.00	181.00	40.00	3.00	53.35
G185173225GC	185.00	173.00	185.00	22.50	6.00	40.93
G185177200GC*	185.00	177.00	185.00	20.00	4.00	46.73
G185177250GC	185.00	177.00	185.00	25.00	4.00	51.02
G185180165GC	185.00	180.00	185.00	16.50	2.50	62.16
G185180250GC	185.00	180.00	185.00	25.00	2.50	90.94
G186180250GC	186.00	180.00	186.00	40.00	3.00	45.22
G186180500GC*	186.00	180.00	186.00	50.00	3.00	53.36
G186180600GC*	186.00	180.00	186.00	60.00	3.00	71.54
G190182250GC	190.00	182.00	190.00	25.00	4.00	53.36
G190182450GC	190.00	182.00	190.00	45.00	4.00	78.01
G190182550GC	190.00	182.00	190.00	55.00	4.00	103.75
G190183300GC	190.00	183.00	190.00	30.00	3.50	82.70
G190184150GC	190.00	184.00	190.00	15.00	3.00	51.28
G190184300GC*	190.00	184.00	190.00	30.00	3.00	71.86
G190185097GC	190.00	185.00	190.00	9.70	2.50	44.52
G190185150GC	190.00	185.00	190.00	15.00	2.50	53.36
G198190400GC*	198.00	190.00	198.00	40.00	4.00	53.36
G200188225GC	200.00	188.00	200.00	22.50	6.00	64.94
G200190400GC-SC*	200.00	190.00	200.00	40.00	5.00	64.06
G200192220GC	200.00	192.00	200.00	22.00	4.00	84.84
G200192250GC*	200.00	192.00	200.00	25.00	4.00	89.41
G200192285GC	200.00	192.00	200.00	28.50	4.00	78.85
G200192450GC	200.00	192.00	200.00	45.00	4.00	100.75
G200193250GC*	200.00	193.00	200.00	25.00	3.50	79.74
G200193600GC*	200.00	193.00	200.00	60.00	3.50	106.09
G200194150GC	200.00	194.00	200.00	15.00	3.00	46.18
G200194188GC*	200.00	194.00	200.00	18.87	3.00	64.06

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

GC SERIES - PHENOLIC

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G200194195GC	200.00	194.00	200.00	19.50	3.00	64.06
G200194200GC	200.00	194.00	200.00	20.00	3.00	83.36
G200194250GC	200.00	194.00	200.00	25.00	3.00	92.21
G200194300GC	200.00	194.00	200.00	30.00	3.00	92.21
G200194500GC*	200.00	194.00	200.00	50.00	3.00	100.75
G200195097GC	200.00	195.00	200.00	9.70	2.50	40.93
G200195150GC	200.00	195.00	200.00	15.00	2.50	55.19
G200195150GC-ESC*	200.00	195.00	200.00	15.00	2.50	55.19
G200195200GC	200.00	195.00	200.00	20.00	2.50	83.36
G200195250GC	200.00	195.00	200.00	25.00	2.50	92.21
G200195400GC*	200.00	195.00	200.00	40.00	2.50	100.75
G203197190GC*	203.00	197.00	203.00	19.00	3.00	75.57
G205200150GC	205.00	200.00	205.00	15.00	2.50	94.07
G210202282GC*	210.00	202.00	210.00	28.20	4.00	101.54
G210205097GC	210.00	205.00	210.00	9.70	2.50	81.72
G215207500GC	215.00	207.00	215.00	50.00	4.00	113.85
G215208220GC*	215.00	208.00	215.00	22.00	3.50	94.27
G215210200GC	215.00	210.00	215.00	20.00	2.50	75.86
G218212600GC	218.00	212.00	218.00	60.00	3.00	105.91
G220200400GC-SC*	220.00	200.00	220.00	40.00	10.00	107.65
G220208120GC*	220.00	208.00	220.00	120.00	6.00	312.23
G220210150GC*	220.00	210.00	220.00	15.00	5.00	83.57
G220210400GC-SC	220.00	210.00	220.00	40.00	5.00	109.71
G220210500GC	220.00	210.00	220.00	50.00	5.00	115.85
G220212300GC*	220.00	212.00	220.00	30.00	4.00	101.32
G220213600GC	220.00	213.00	220.00	60.00	3.50	130.96
G220214200GC	220.00	214.00	220.00	20.00	3.00	92.01
G220214250GC	220.00	214.00	220.00	25.00	3.00	96.33
G220214300GC*	220.00	214.00	220.00	30.00	3.00	101.32
G220214400GC*	220.00	214.00	220.00	40.00	3.00	109.71
G220214600GC	220.00	214.00	220.00	60.00	3.00	125.55
G225217250GC	225.00	217.00	225.00	25.00	4.00	98.93
G225217500GC	225.00	217.00	225.00	50.00	4.00	118.21
G225218250GC*	225.00	218.00	225.00	25.00	3.50	89.68
G225220200GC	225.00	220.00	225.00	20.00	2.50	94.10
G228220200GC*	228.00	220.00	228.00	20.00	4.00	99.21
G230221400GC*	230.00	221.00	230.00	40.00	4.50	109.67
G230222300GC*	230.00	222.00	230.00	30.00	4.00	107.70
G230222500GC*	230.00	222.00	230.00	50.00	4.00	128.18
G230224250GC	230.00	224.00	230.00	25.00	3.00	58.15
G230225249GC	230.00	225.00	230.00	24.90	2.50	102.01
G230225250GC	230.00	225.00	230.00	25.00	2.50	60.69
G235229300GC*	235.00	229.00	235.00	30.00	3.00	112.85
G236230300GC*	236.00	230.00	236.00	30.00	3.00	112.85
G238230600GC*	238.00	230.00	238.00	60.00	4.00	164.26
G240234250GC	240.00	234.00	240.00	25.00	3.00	102.63
G240235250GC	240.00	235.00	240.00	25.00	2.50	107.03
G248240300GC*	248.00	240.00	248.00	30.00	4.00	119.85
G248240600GC*	248.00	240.00	248.00	60.00	4.00	173.46
G250238275GC	250.00	238.00	250.00	27.50	6.00	82.23
G2502381300GC	250.00	238.00	250.00	130.00	6.00	388.59
G250241500GC*	250.00	241.00	250.00	50.00	4.50	132.78
G250242250GC*	250.00	242.00	250.00	25.00	4.00	112.85
G250242300GC*	250.00	242.00	250.00	30.00	4.00	132.35
G250242400GC*	250.00	242.00	250.00	40.00	4.00	165.95
G250242500GC*	250.00	242.00	250.00	50.00	4.00	174.95
G250242550GC	250.00	242.00	250.00	55.00	4.00	176.40
G250244195GC	250.00	244.00	250.00	19.50	3.00	107.14
G250244245GC	250.00	244.00	250.00	24.50	3.00	123.98
G250244350GC*	250.00	244.00	250.00	35.00	3.00	152.97
G250244500GC*	250.00	244.00	250.00	50.00	3.00	174.95
G250245250GC	250.00	245.00	250.00	25.00	2.50	112.85
G255247600GC*	255.00	247.00	255.00	60.00	4.00	179.38
G258250300GC*	258.00	250.00	258.00	30.00	4.00	135.24
G260248275GC	260.00	248.00	260.00	27.50	6.00	128.43
G260251500GC*	260.00	251.00	260.00	50.00	4.50	153.92
G260254300GC	260.00	254.00	260.00	30.00	3.00	138.53
G260255300GC	260.00	255.00	260.00	30.00	2.50	138.53
G265260150GC	265.00	260.00	265.00	15.00	2.50	77.46
G265260250GC	265.00	260.00	265.00	25.00	2.50	138.54
G270262300GC*	270.00	262.00	270.00	30.00	4.00	138.95
G275270150GC	275.00	270.00	275.00	15.00	2.50	79.32
G280272200GC	280.00	272.00	280.00	20.00	4.00	132.77
G280272300GC*	280.00	272.00	280.00	30.00	4.00	143.61
G280272500GC*	280.00	272.00	280.00	50.00	4.00	170.74
G280272600GC*	280.00	272.00	280.00	60.00	4.00	133.26
G280274300GC	280.00	274.00	280.00	30.00	3.00	137.99
G280275250GC	280.00	275.00	280.00	25.00	2.50	139.98
G280275300GC	280.00	275.00	280.00	30.00	2.50	143.61
G283275560GC*	283.00	275.00	283.00	56.00	4.00	195.58
G285280150GC	285.00	280.00	285.00	15.00	2.50	102.95
G288280250GC*	288.00	280.00	288.00	25.00	4.00	141.06
G288280300GC*	288.00	280.00	288.00	30.00	4.00	146.13
G295290097GC	295.00	290.00	295.00	9.70	2.50	101.50
G300288300GC	300.00	288.00	300.00	30.00	6.00	119.93
G300292300GC*	300.00	292.00	300.00	30.00	4.00	147.07
G300292400GC*	300.00	292.00	300.00	40.00	4.00	160.86
G300292600GC	300.00	292.00	300.00	60.00	4.00	259.27
G300295250GC	300.00	295.00	300.00	25.00	2.50	143.67
G300295345GC*	300.00	295.00	300.00	34.50	2.50	164.46
G305300250GC	305.00	300.00	305.00	25.00	2.50	134.47
G308300250GC*	308.00	300.00	308.00	25.00	4.00	99.49
G308300750GC*	308.00	300.00	308.00	75.00	4.00	282.01
G310304350GC	310.00	304.00	310.00	35.00	3.00	146.05
G320312250GC*	320.00	312.00	320.00	25.00	4.00	145.69
G320312600GC*	320.00	312.00	320.00	60.00	4.00	201.20

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

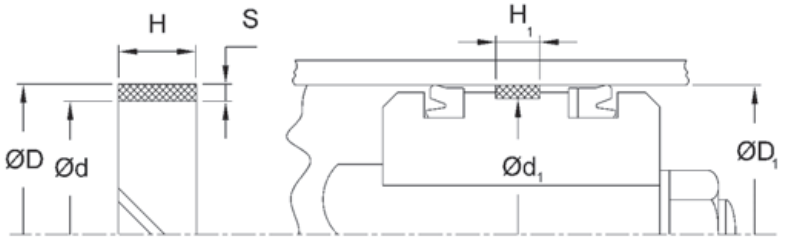
GC SERIES - PHENOLIC

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G320315250GC	320.00	315.00	320.00	25.00	2.50	145.69
G330325250GC*	330.00	325.00	330.00	25.00	2.50	145.69
G330320250GC-SC*	330.00	320.00	330.00	25.00	5.00	145.69
G340334350GC	340.00	334.00	340.00	35.00	3.00	182.33
G345340250GC*	345.00	340.00	345.00	25.00	2.50	148.82
G350342750GC	350.00	342.00	350.00	75.00	4.00	389.65
G350345250GC	350.00	345.00	350.00	25.00	2.50	156.02
G358350550GC*	358.00	350.00	358.00	55.00	4.00	196.37
G360354400GC	360.00	354.00	360.00	40.00	3.00	222.30
G360355250GC	360.00	355.00	360.00	25.00	2.50	170.83
G360355400GC*	360.00	355.00	360.00	40.00	2.50	222.30

Ref.Number	Bore Dia	Rod Dia	Nominal Wear Ring Dimensions			$
			D	H	S	
G365360250GC*	365.00	360.00	365.00	25.00	2.50	180.72
G380372250GC*	380.00	372.00	380.00	25.00	4.00	185.25
G380372500GC*	380.00	372.00	380.00	50.00	4.00	235.32
G400392300GC*	400.00	392.00	400.00	30.00	4.00	241.65
G400392400GC*	400.00	392.00	400.00	40.00	4.00	264.39
G400392750GC*	400.00	392.00	400.00	75.00	4.00	431.62
G400395250GC*	400.00	395.00	400.00	25.00	2.50	192.33
G440432400GC*	440.00	432.00	440.00	40.00	4.00	207.09
G480470300GC*	480.00	470.00	480.00	30.00	5.00	250.87
G496490300GC*	496.00	490.00	496.00	30.00	3.00	250.87

WS-BR60 - Wear Strip

60% BR.PTFE



Temperature: -148/392F [-100/200C] **Pressure: 1400 PSI [96 Bar]**

Ref.Number	Nominal Seal Dimensions				$ Per foot
	H	TOL.	S	TOL.	
WS0040025/BR60	4.00	+0.00 / -0.25	2.50	+0.00 / -0.13	10.67
WS0050040/BR60	5.00	+0.00 / -0.25	4.00	+0.00 / -0.13	18.71
WS0056015/BR60	5.60	+0.00 / -0.25	1.50	+0.00 / -0.13	9.54
WS0056020/BR60*	5.60	+0.00 / -0.25	2.00	+0.00 / -0.13	11.83
WS0056025/BR60	5.60	+0.00 / -0.25	2.50	+0.00 / -0.13	13.26
WS0056030/BR60*	5.60	+0.00 / -0.25	3.00	+0.00 / -0.13	18.02
WS0056035/BR60*	5.60	+0.00 / -0.25	3.50	+0.00 / -0.13	26.20
WS0056040/BR60*	5.60	+0.00 / -0.25	4.00	+0.00 / -0.13	29.92
WS0060015/BR60	6.00	+0.00 / -0.25	1.50	+0.00 / -0.13	10.10
WS0060020/BR60	6.00	+0.00 / -0.25	2.00	+0.00 / -0.13	20.35
WS0060025/BR60	6.00	+0.00 / -0.25	2.50	+0.00 / -0.13	13.14
WS0060030/BR60	6.00	+0.00 / -0.25	3.00	+0.00 / -0.13	18.46
WS0060035/BR60*	6.00	+0.00 / -0.25	3.50	+0.00 / -0.13	26.94
WS0060040/BR60	6.00	+0.00 / -0.25	4.00	+0.00 / -0.13	14.43
WS0079015/BR60*	7.90	+0.00 / -0.25	1.50	+0.00 / -0.13	10.53
WS0079020/BR60	7.90	+0.00 / -0.25	2.00	+0.00 / -0.13	20.91
WS0079025/BR60*	7.90	+0.00 / -0.25	2.50	+0.00 / -0.13	13.14
WS0079030/BR60*	7.90	+0.00 / -0.25	3.00	+0.00 / -0.13	19.32

Increments of 1 ft

Ref.Number	Nominal Seal Dimensions				$ Per foot
	H	TOL.	S	TOL.	
WS0079035/BR60*	7.90	+0.00 / -0.25	3.50	+0.00 / -0.13	27.87
WS0079040/BR60*	7.90	+0.00 / -0.25	4.00	+0.00 / -0.13	27.45
WS0080025/BR60	8.00	+0.00 / -0.25	2.50	+0.00 / -0.13	23.34
WS0080040/BR60	8.00	+0.00 / -0.25	4.00	+0.00 / -0.13	38.35
WS0090040/BR60	9.00	+0.00 / -0.25	4.00	+0.00 / -0.13	32.95
WS0095015/BR60*	9.50	+0.00 / -0.25	1.50	+0.00 / -0.13	10.96
WS0095020/BR60	9.50	+0.00 / -0.25	2.00	+0.00 / -0.13	12.94
WS0095025/BR60	9.50	+0.00 / -0.25	2.50	+0.00 / -0.13	16.53
WS0095030/BR60	9.50	+0.00 / -0.25	3.00	+0.00 / -0.13	26.83
WS0095035/BR60*	9.50	+0.00 / -0.25	3.50	+0.00 / -0.13	29.17
WS0095040/BR60	9.50	+0.00 / -0.25	4.00	+0.00 / -0.13	27.17
WS0097015/BR60	9.70	+0.00 / -0.25	1.50	+0.00 / -0.13	11.40
WS0097020/BR60	9.70	+0.00 / -0.25	2.00	+0.00 / -0.13	13.13
WS0097025/BR60	9.70	+0.00 / -0.25	2.50	+0.00 / -0.13	29.13
WS0097030/BR60	9.70	+0.00 / -0.25	3.00	+0.00 / -0.13	21.37
WS0097035/BR60	9.70	+0.00 / -0.25	3.50	+0.00 / -0.13	30.23
WS0097040/BR60	9.70	+0.00 / -0.25	4.00	+0.00 / -0.13	27.82
WS0100020/BR60	10.00	+0.00 / -0.25	2.00	+0.00 / -0.13	18.00

Increments of 1 ft

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

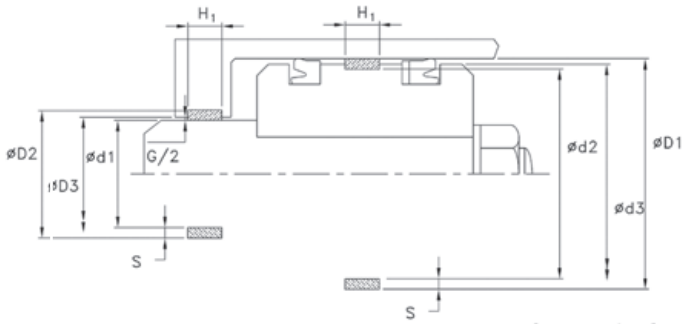
WS-BR60 SERIES - 60% BR.PTFE

Ref.Number	Nominal Seal Dimensions				$ Per foot
	H	TOL.	S	TOL.	
WS0118015/BR60*	11.80	+0.00 / -0.25	1.50	+0.00 / -0.13	12.02
WS0118020/BR60*	11.80	+0.00 / -0.25	2.00	+0.00 / -0.13	14.56
WS0118025/BR60*	11.80	+0.00 / -0.25	2.50	+0.00 / -0.13	18.77
WS0118030/BR60	11.80	+0.00 / -0.25	3.00	+0.00 / -0.13	22.67
WS0118035/BR60*	11.80	+0.00 / -0.25	3.50	+0.00 / -0.13	31.46
WS0118040/BR60	11.80	+0.00 / -0.25	4.00	+0.00 / -0.13	36.27
WS0120025/BR60	12.00	+0.00 / -0.25	2.50	+0.00 / -0.13	16.78
WS0130015/BR60*	13.00	+0.00 / -0.25	1.50	+0.00 / -0.13	12.45
WS0130020/BR60	13.00	+0.00 / -0.25	2.00	+0.00 / -0.13	15.73
WS0130025/BR60	13.00	+0.00 / -0.25	2.50	+0.00 / -0.13	19.51
WS0130030/BR60	13.00	+0.00 / -0.25	3.00	+0.00 / -0.13	22.85
WS0130035/BR60*	13.00	+0.00 / -0.25	3.50	+0.00 / -0.13	32.83
WS0130040/BR60	13.00	+0.00 / -0.25	4.00	+0.00 / -0.13	39.76
WS0140015/BR60*	14.00	+0.00 / -0.25	1.50	+0.00 / -0.13	12.70
WS0140020/BR60*	14.00	+0.00 / -0.25	2.00	+0.00 / -0.13	18.21
WS0140025/BR60*	14.00	+0.00 / -0.25	2.50	+0.00 / -0.13	20.25
WS0140030/BR60*	14.00	+0.00 / -0.25	3.00	+0.00 / -0.13	24.16
WS0140035/BR60*	14.00	+0.00 / -0.25	3.50	+0.00 / -0.13	25.37
WS0140040/BR60*	14.00	+0.00 / -0.25	4.00	+0.00 / -0.13	43.05
WS0145040/BR60	14.50	+0.00 / -0.25	4.00	+0.00 / -0.13	41.12
WS0150015/BR60	15.00	+0.00 / -0.25	1.50	+0.00 / -0.13	21.08
Increments of 1 ft					

Ref.Number	Nominal Seal Dimensions				$ Per foot
	H	TOL.	S	TOL.	
WS0150020/BR60	15.00	+0.00 / -0.25	2.00	+0.00 / -0.13	14.60
WS0150025/BR60	15.00	+0.00 / -0.25	2.50	+0.00 / -0.13	21.40
WS0150030/BR60	15.00	+0.00 / -0.25	3.00	+0.00 / -0.13	25.77
WS0150035/BR60*	15.00	+0.00 / -0.25	3.50	+0.00 / -0.13	37.97
WS0150040/BR60	15.00	+0.00 / -0.25	4.00	+0.00 / -0.13	45.65
WS0195040/BR60*	19.50	+0.00 / -0.25	4.00	+0.00 / -0.13	42.07
WS0200015/BR60	20.00	+0.00 / -0.25	1.50	+0.00 / -0.13	28.74
WS0200020/BR60	20.00	+0.00 / -0.25	2.00	+0.00 / -0.13	15.96
WS0200025/BR60	20.00	+0.00 / -0.25	2.50	+0.00 / -0.13	24.85
WS0200030/BR60	20.00	+0.00 / -0.25	3.00	+0.00 / -0.13	27.75
WS0200035/BR60*	20.00	+0.00 / -0.25	3.50	+0.00 / -0.13	39.76
WS0200040/BR60	20.00	+0.00 / -0.25	4.00	+0.00 / -0.13	47.44
WS0250015/BR60*	25.00	+0.00 / -0.25	1.50	+0.00 / -0.13	15.42
WS0250020/BR60	25.00	+0.00 / -0.25	2.00	+0.00 / -0.13	32.54
WS0250025/BR60	25.00	+0.00 / -0.25	2.50	+0.00 / -0.13	37.59
WS0250030/BR60	25.00	+0.00 / -0.25	3.00	+0.00 / -0.13	32.33
WS0250035/BR60*	25.00	+0.00 / -0.25	3.50	+0.00 / -0.13	41.93
WS0250040/BR60	25.00	+0.00 / -0.25	4.00	+0.00 / -0.13	52.51
WS0300015/BR60	30.00	+0.00 / -0.25	1.50	+0.00 / -0.13	31.63
WS0300025/BR60*	30.00	+0.00 / -0.25	2.50	+0.00 / -0.13	27.17
WS0500020/BR60*	50.00	+0.00 / -0.25	2.00	+0.00 / -0.13	33.21
Increments of 1 ft					

WS-PR - Wear Strip

Polyester Resin



Compressive Strenght

Temperature: -40/250F [-40/121C] **Pressure: 60 000 PSI [4138 BAR]**

Ref. Number	Housing Dimensions				$ Per foot
	H1	S	Od1	OD1	
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

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

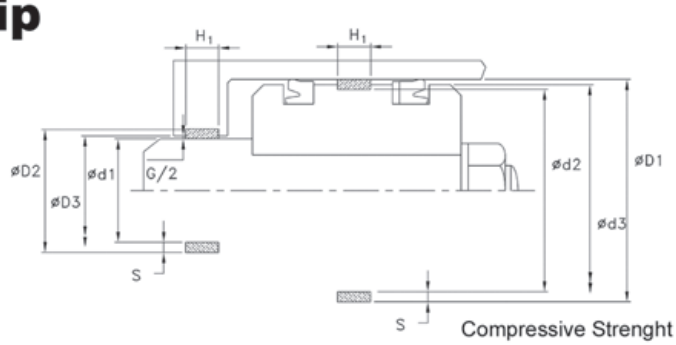
WS-PR SERIES - POLYESTER RESIN

Ref. Number	Housing Dimensions				$ Per foot
	H1	S	Od1	OD1	
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	3.02	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
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		

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

WS-PR-BOX - Wear Strip

Polyester Resin

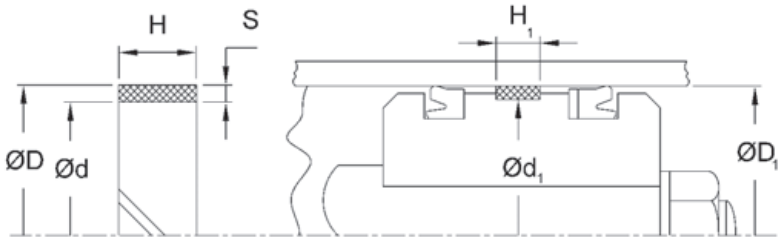


Temperature: -40/250F [-40/121C] **Pressure: 60 000 PSI [4138 BAR]**

Ref. Number	Housing Dimensions				$
	H1	S	Od1	OD1	
WS0056025-PR/BOX*	5.60	2.50	140.00	230.00	444.77
WS0097025-PR/BOX*	9.70	2.50	140.00	230.00	464.48
WS0097030-PR/BOX*	9.70	3.00	140.00	240.00	460.57
WS0130025-PR/BOX*	13.00	2.50	140.00	230.00	545.07
WS0150020-PR/BOX*	15.00	2.00	140.00	210.00	632.26
WS0150025-PR/BOX*	15.00	2.50	140.00	230.00	583.11
WS0200025-PR/BOX*	20.00	2.50	140.00	230.00	773.06
WS0200030-PR/BOX*	20.00	3.00	140.00	240.00	791.04
WS0250025-PR/BOX*	25.00	2.50	140.00	230.00	797.30

WS-C - Wear Strip

60% CB.PTFE



Temperature: -148/392F [-100/200C] **Pressure: 1400 PSI [96 Bar]**

Ref.Number	Nominal Seal Dimensions				$ Per foot
	H	TOL.	S	TOL.	
WS0060040/C*	6.00	+0.00 / -0.25	4.00	+0.00 / -0.13	36.36
WS0080040/C*	8.00	+0.00 / -0.25	4.00	+0.00 / -0.13	37.48
WS0090040/C*	9.00	+0.00 / -0.25	4.00	+0.00 / -0.13	41.61
WS0095040/C*	9.50	+0.00 / -0.25	4.00	+0.00 / -0.13	41.61
Increments of 1 ft					

Ref.Number	Nominal Seal Dimensions				$ Per foot
	H	TOL.	S	TOL.	
WS0145040/C*	14.50	+0.00 / -0.25	4.00	+0.00 / -0.13	54.58
WS0150025/C*	15.00	+0.00 / -0.25	2.50	+0.00 / -0.13	54.58
WS0195040/C*	19.50	+0.00 / -0.25	4.00	+0.00 / -0.13	58.51
WS0250040/C*	25.00	+0.00 / -0.25	4.00	+0.00 / -0.13	64.94
Increments of 1 ft					

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

"DV" BEARING CHART

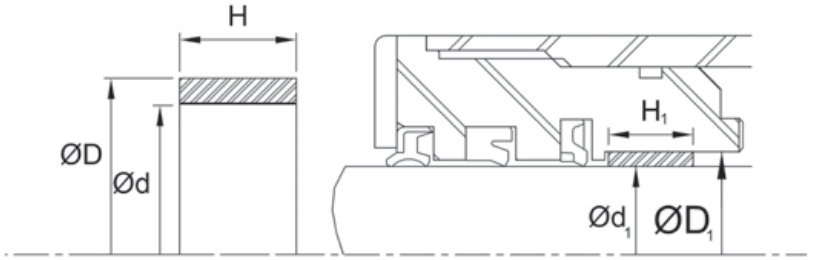
Nominal Bearing Bore	Recommended Shaft Dia.	Recommended Housing Bore	Installed Bearing I.D.*	Bearing Length and Part Number												
2	2.000 1.994	3.500 3.508	2.000 2.048	3	GMB 0203DV	5	GMB 0205DV									
3	3.000 2.994	4.500 4.508	3.000 3.048	3	GMB 0303DV	5	GMB 0305DV	6	GMB 0306DV							
4	4.000 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 1420DV	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 4050DV					
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			

"DV" BEARING CHART

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 5030DV	40	GMB 5040DV	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	115.000 115.035	110.010 110.145	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	140.000 139.937	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	180.048 180.226	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	250.048 250.232	100	GMB 250100DV								
300	300.000 299.919	305.000 305.052	300.048 300.232	100	GMB 300100DV								

"DV" BEARING

BR. PTFE/STEEL



Compressive Strenght

Temperature: -328/536F [-200/280C] **Pressure: 44 000 PSI [3035 Bar]**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	H			d	D	H	
GMB010010DV*	10.00	12.00	10.00	1.54	GMB045050DV	45.00	50.00	50.00	14.86
GMB010012DV*	10.00	12.00	12.00	1.63	GMB050012DV*	50.00	55.00	12.00	6.84
GMB012020DV*	12.00	14.00	20.00	2.08	GMB050020DV	50.00	55.00	20.00	17.27
GMB016015DV*	16.00	18.00	15.00	2.23	GMB050025DV*	50.00	55.00	25.00	10.79
GMB016020DV*	16.00	18.00	20.00	2.53	GMB050030DV	50.00	55.00	30.00	12.93
GMB016025DV*	16.00	18.00	25.00	2.94	GMB050040DV	50.00	55.00	40.00	15.99
GMB018020DV*	18.00	20.00	20.00	2.68	GMB050050DV*	50.00	55.00	50.00	17.81
GMB020015DV*	20.00	23.00	15.00	3.05	GMB050060DV	50.00	55.00	60.00	20.79
GMB020020DV*	20.00	23.00	20.00	3.71	GMB055012DV*	55.00	60.00	12.00	7.09
GMB020025DV*	20.00	23.00	25.00	4.09	GMB055025DV*	55.00	60.00	25.00	11.42
GMB020030DV*	20.00	23.00	30.00	4.51	GMB055030DV	55.00	60.00	30.00	15.27
GMB020040DV*	20.00	23.00	40.00	5.73	GMB055040DV	55.00	60.00	40.00	16.23
GMB022020DV*	22.00	25.00	20.00	3.46	GMB055050DV*	55.00	60.00	50.00	19.44
GMB022025DV	22.00	25.00	25.00	3.35	GMB055060DV*	55.00	60.00	60.00	22.60
GMB025015DV	25.00	28.00	15.00	3.34	GMB060030DV	60.00	65.00	30.00	15.53
GMB025020DV*	25.00	28.00	20.00	3.46	GMB060035DV*	60.00	65.00	35.00	17.15
GMB025025DV	25.00	28.00	25.00	4.55	GMB060040DV	60.00	65.00	40.00	20.15
GMB025030DV*	25.00	28.00	30.00	5.04	GMB060050DV*	60.00	65.00	50.00	22.38
GMB025040DV*	25.00	28.00	40.00	6.17	GMB060070DV*	60.00	65.00	70.00	29.24
GMB028025DV*	28.00	32.00	25.00	6.09	GMB060080DV*	60.00	65.00	80.00	31.17
GMB030020DV	30.00	34.00	20.00	6.09	GMB065015DV*	65.00	70.00	15.00	10.54
GMB030025DV	30.00	34.00	25.00	6.17	GMB065030DV	65.00	70.00	30.00	18.08
GMB030030DV	30.00	34.00	30.00	6.62	GMB065035DV*	65.00	70.00	35.00	18.79
GMB030040DV	30.00	34.00	40.00	8.43	GMB065040DV	65.00	70.00	40.00	21.37
GMB032040DV	32.00	36.00	40.00	7.85	GMB065060DV	65.00	70.00	60.00	27.64
GMB035025DV*	35.00	39.00	25.00	6.84	GMB070015DV	70.00	75.00	15.00	16.85
GMB035030DV	35.00	39.00	30.00	7.84	GMB070020DV*	70.00	75.00	20.00	17.96
GMB035035DV*	35.00	39.00	35.00	6.77	GMB070030DV	70.00	75.00	30.00	20.41
GMB035050DV*	35.00	39.00	50.00	11.87	GMB070035DV	70.00	75.00	35.00	20.76
GMB038032DV*	38.00	42.00	32.00	8.49	GMB070040DV	70.00	75.00	40.00	24.58
GMB040025DV	40.00	44.00	25.00	7.77	GMB070050DV*	70.00	75.00	50.00	26.95
GMB040030DV	40.00	44.00	30.00	9.10	GMB070070DV	70.00	75.00	70.00	35.95
GMB040035DV	40.00	44.00	35.00	9.10	GMB075015DV*	75.00	80.00	15.00	18.68
GMB040040DV*	40.00	44.00	40.00	9.15	GMB075030DV	75.00	80.00	30.00	22.57
GMB040050DV*	40.00	44.00	50.00	13.23	GMB075035DV*	75.00	80.00	35.00	23.43
GMB045020DV	45.00	50.00	20.00	7.77	GMB075040DV	75.00	80.00	40.00	25.79
GMB045030DV	45.00	50.00	30.00	10.67	GMB075050DV*	75.00	80.00	50.00	28.33
GMB045040DV	45.00	50.00	40.00	12.67	GMB075060DV	75.00	80.00	60.00	34.27

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

"DV" BEARING - BR.PTFE/STEEL

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
GMB075080DV*	75.00	80.00	80.00	38.08
GMB080015DV*	80.00	85.00	15.00	25.31
GMB080025DV	80.00	85.00	25.00	23.21
GMB080030DV	80.00	85.00	30.00	26.02
GMB080040DV	80.00	85.00	40.00	28.29
GMB080050DV	80.00	85.00	50.00	32.21
GMB080060DV	80.00	85.00	60.00	36.79
GMB085030DV	85.00	90.00	30.00	28.91
GMB085040DV	85.00	90.00	40.00	30.86
GMB085050DV*	85.00	90.00	50.00	33.57
GMB085060DV*	85.00	90.00	60.00	37.67
GMB085070DV*	85.00	90.00	70.00	43.38
GMB085100DV*	85.00	90.00	100.00	50.26
GMB090020DV	90.00	95.00	20.00	26.52
GMB090030DV	90.00	95.00	30.00	27.88
GMB090035DV	90.00	95.00	35.00	32.76
GMB090040DV	90.00	95.00	40.00	35.60
GMB090045DV*	90.00	95.00	45.00	37.06
GMB090050DV	90.00	95.00	50.00	41.54
GMB090060DV*	90.00	95.00	60.00	44.57
GMB095030DV	95.00	100.00	30.00	31.40
GMB095035DV	95.00	100.00	35.00	35.21
GMB095040DV	95.00	100.00	40.00	36.95
GMB095050DV*	95.00	100.00	50.00	39.76
GMB095060DV	95.00	100.00	60.00	42.91
GMB095100DV*	95.00	100.00	100.00	63.54
GMB100020DV*	100.00	105.00	20.00	24.20
GMB100030DV	100.00	105.00	30.00	34.70
GMB100035DV	100.00	105.00	35.00	43.04
GMB100040DV	100.00	105.00	40.00	43.38
GMB100050DV	100.00	105.00	50.00	49.56
GMB100060DV*	100.00	105.00	60.00	51.62
GMB100070DV	100.00	105.00	70.00	57.81
GMB105035DV	105.00	110.00	35.00	37.02
GMB105040DV	105.00	110.00	40.00	39.02
GMB105050DV	105.00	110.00	50.00	47.28
GMB105060DV*	105.00	110.00	60.00	53.23
GMB110020DV*	110.00	115.00	20.00	34.70
GMB110030DV*	110.00	115.00	30.00	31.05
GMB110035DV	110.00	115.00	35.00	38.18
GMB110040DV	110.00	115.00	40.00	43.87
GMB110045DV*	110.00	115.00	45.00	49.32
GMB110050DV	110.00	115.00	50.00	70.36
GMB110055DV	110.00	115.00	55.00	73.23
GMB110060DV	110.00	115.00	60.00	75.17
GMB110070DV	110.00	115.00	70.00	82.48
GMB110095DV*	110.00	115.00	95.00	96.90
GMB115035DV	115.00	120.00	35.00	41.80
GMB115045DV*	115.00	120.00	45.00	51.19
GMB115050DV	115.00	120.00	50.00	55.27
GMB115070DV*	115.00	120.00	70.00	68.82
GMB120020DV*	120.00	125.00	20.00	40.90
GMB120035DV	120.00	125.00	35.00	40.50
GMB120040DV	120.00	125.00	40.00	54.13
GMB120050DV	120.00	125.00	50.00	62.36
GMB120060DV	120.00	125.00	60.00	69.00
GMB120070DV*	120.00	125.00	70.00	70.14
GMB120095DV	120.00	125.00	95.00	86.81
GMB120100DV*	120.00	125.00	100.00	103.21
GMB125040DV	125.00	130.00	40.00	49.62
GMB125050DV*	125.00	130.00	50.00	63.96
GMB125070DV*	125.00	130.00	70.00	76.02
GMB125100DV*	125.00	130.00	100.00	108.57
GMB130035DV	130.00	135.00	35.00	59.27
GMB130040DV	130.00	135.00	40.00	62.15
GMB130050DV	130.00	135.00	50.00	66.00
GMB130060DV	130.00	135.00	60.00	71.80
GMB130065DV	130.00	135.00	65.00	74.25
GMB130080DV	130.00	135.00	80.00	78.05
GMB130100DV*	130.00	135.00	100.00	117.73
GMB135060DV*	135.00	140.00	60.00	80.96
GMB135080DV*	135.00	140.00	80.00	94.75
GMB140040DV	140.00	145.00	40.00	83.29
GMB140050DV	140.00	145.00	50.00	88.49
GMB140055DV	140.00	145.00	55.00	90.08
GMB140060DV*	140.00	145.00	60.00	90.45
GMB140070DV	140.00	145.00	70.00	98.23
GMB140080DV*	140.00	145.00	80.00	104.66
GMB150040DV	150.00	155.00	40.00	88.75
GMB150060DV	150.00	155.00	60.00	90.80
GMB150080DV*	150.00	155.00	80.00	111.46
GMB150100DV*	150.00	155.00	100.00	137.13
GMB160040DV	160.00	165.00	40.00	95.19
GMB160050DV	160.00	165.00	50.00	98.71
GMB160080DV	160.00	165.00	80.00	117.99
GMB170035DV	170.00	175.00	35.00	94.80
GMB170040DV	170.00	175.00	40.00	93.93
GMB170060DV	170.00	175.00	60.00	115.18
GMB170085DV	170.00	175.00	85.00	138.32
GMB180060DV	180.00	185.00	60.00	129.65
GMB180090DV	180.00	185.00	90.00	132.30
GMB180120DV	180.00	185.00	120.00	187.23
GMB200020DV	200.00	205.00	20.00	48.78
GMB200050DV	200.00	205.00	50.00	130.50
GMB200060DV	200.00	205.00	60.00	152.87
GMB200070DV	200.00	205.00	70.00	170.23
GMB220015DV*	220.00	225.00	15.00	50.61
GMB220060DV*	220.00	225.00	60.00	218.71

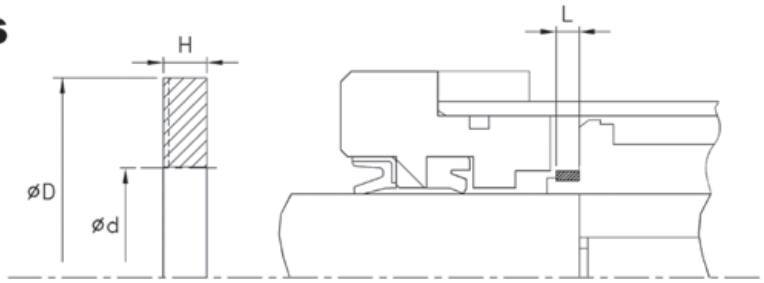
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

"DV" BEARING - BR.PTFE/STEEL

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
GMB230060DV	230.00	235.00	60.00	230.57
GMB260070DV	260.00	265.00	70.00	253.52
GMB270015DV*	270.00	275.00	15.00	52.91

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
GMB280015DV	280.00	285.00	15.00	46.47
GMB280085DV	280.00	285.00	85.00	263.27
GMB300015DV*	300.00	305.00	15.00	54.70

GE - Cushion Seals



Nylon **Temperature: -40/250F [-40/121C]** **Pressure: N/A**
Dynamax **Temperature: -40/248F [-40/120C]** **Pressure: N/A**
Bronze **Temperature: N/A** **Pressure: N/A**

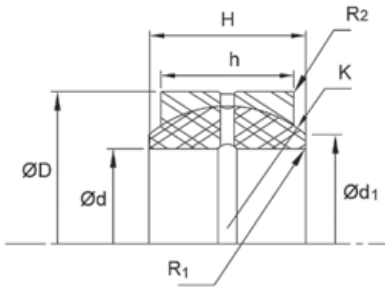
Ref.Number	Nominal Seal Dimensions			$
	D	d	H	
G030025050GE	30.00	24.80	5.00	25.21
G030026050GE*	30.00	25.80	5.00	24.04
G038032060GE-1	38.00	31.80	6.00	24.80
G038033060GE*	38.00	33.00	6.00	27.15
G039034060GE	38.85	33.65	6.00	23.20
G046040060GE	46.00	40.00	6.00	22.15
G046041060GE	46.00	41.00	6.00	17.44
G055049060GE*	55.00	49.00	6.00	13.69
G060054060GE	60.00	54.00	6.00	22.43
G064062060GE	64.00	61.50	6.00	28.73
G065059060GE	65.00	58.80	6.00	28.73
G065060060GE	65.00	60.00	6.00	27.15
G069059060GE	69.00	59.00	6.00	23.82
G069063060GE	69.00	63.00	6.00	28.73
G070065060GE*	70.00	65.00	6.00	30.17
G071065060GE*	70.80	64.80	6.00	29.59
G072066060GE	71.50	65.50	6.00	23.39
G074064060GE	74.00	64.48	6.00	24.86
G074068060GE	74.00	68.00	6.00	29.91
G075069060GE	75.00	68.80	6.00	30.65
G075070060GE	75.00	70.00	6.00	33.51
G079069080GE	78.85	68.85	8.00	27.56
G079069100GE*	79.00	69.00	10.00	31.08
G080074060GE	80.00	73.80	6.00	30.09
G080075060GE	80.00	75.00	6.00	36.84
G084074080GE	84.00	74.00	8.00	27.81
G085079060GE	85.00	78.76	6.00	27.15
G085080060GE-1	85.00	79.70	6.00	27.46
G085080060GE	85.00	80.00	6.00	23.48

Ref.Number	Nominal Bearing Dimensions			$
	D	d	H	
G089079080GE	89.00	79.00	8.00	28.08
G090080100GE*	90.00	80.00	10.00	29.44
G090084060GE	90.00	83.80	6.00	31.25
G090085060GE*	90.00	85.00	6.00	40.56
G094084080GE	93.70	83.70	8.00	26.83
G094089060GE*	94.00	89.00	6.00	34.89
G095089060GE	95.00	88.80	6.00	20.57
G095090060GE	95.00	90.00	6.00	44.61
G099089080GE	98.85	88.85	8.00	28.56
G099088100GE*	98.80	88.80	10.00	35.39
G100094060GE	100.00	93.90	6.00	18.78
G100095060GE	100.00	95.00	6.00	25.81
G104094080GE	103.50	93.50	8.00	32.35
G107102060GE	107.00	101.80	6.00	27.06
G110105060GE*	110.00	105.00	6.00	36.38
G109099100GE	109.00	99.00	10.00	29.96
G115105080GE*	115.00	105.08	8.00	32.91
G115109060GE/B	115.00	109.00	6.00	108.03
G115110060GE	115.00	109.80	6.00	18.01
G119109080GE	118.50	108.50	8.00	33.19
G120115060GE	120.00	114.80	6.00	27.06
G121111100GE	121.00	111.00	10.00	28.11
G122117060GE*	122.00	117.00	6.00	30.97
G128116100GE	128.00	116.00	10.00	29.15
G132120100GE*	132.00	120.00	10.00	43.92
G134122100GE*	134.00	122.00	10.00	30.75
G134129060GE/B*	134.00	129.00	6.00	109.14
G138126100GE	138.00	126.00	10.00	41.22

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

GE-ES - Spherical Ball Bushing

Steel (Without Seals)

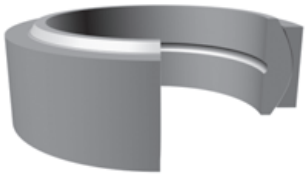


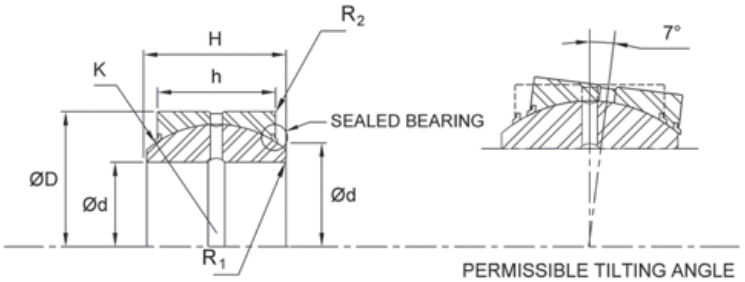
Ref.Number	Rod diameter	Nominal Bushing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
GE4E/Z*	4.00	4.00	6.20	12.00	3.00	5.00	8.00	0.50	0.50	O/R
GE5E/Z*	5.00	5.00	8.00	14.00	4.00	6.00	10.00	0.50	0.50	O/R
GE6E/Z*	6.00	6.00	8.00	14.00	4.00	6.00	10.00	0.50	0.50	O/R
GE8E/Z*	8.00	8.00	10.20	16.00	5.00	8.00	13.00	0.50	0.50	32.71
GE10E/Z*	10.00	10.00	13.20	19.00	6.00	9.00	16.00	0.80	0.50	32.71
GE12E/Z*	12.00	12.00	15.00	22.00	7.00	10.00	18.00	0.80	0.80	32.71
GE15ES/Z*	15.00	15.00	18.40	26.00	9.00	12.00	22.00	0.80	0.80	32.71
GE17ES/Z*	17.00	17.00	20.70	30.00	10.00	14.00	25.00	0.80	0.80	35.24
GE20ES/Z	20.00	20.00	24.20	35.00	12.00	16.00	29.00	0.80	1.00	28.70
GE25ES/Z*	25.00	25.00	29.30	42.00	16.00	20.00	35.50	0.80	1.00	35.73
GE30ES/Z	30.00	30.00	34.20	47.00	18.00	22.00	40.70	0.80	1.00	37.82
GE35ES/Z	35.00	35.00	39.80	55.00	20.00	25.00	47.00	1.00	1.20	48.99
GE40ES/Z	40.00	40.00	45.00	62.00	22.00	28.00	53.00	1.00	1.20	54.07
GE45ES/Z	45.00	45.00	50.80	68.00	25.00	32.00	60.00	1.00	1.20	103.86
GE50ES/Z	50.00	50.00	56.00	75.00	28.00	35.00	66.00	1.00	1.20	78.96
GE60ES/Z	60.00	60.00	66.80	90.00	36.00	44.00	80.00	1.20	1.50	121.94
GE70ES/Z*	70.00	70.00	77.90	105.00	40.00	49.00	92.00	1.20	1.50	182.82
GE80ES/Z	80.00	80.00	89.40	120.00	45.00	55.00	105.00	1.20	1.50	199.55
GE90ES/Z*	90.00	90.00	98.10	130.00	50.00	60.00	115.00	1.50	1.50	386.20
GE100ES/Z	100.00	100.00	109.50	150.00	55.00	70.00	130.00	1.50	1.50	579.77
GE110ES/Z*	110.00	110.00	121.20	160.00	55.00	70.00	140.00	1.50	1.50	704.31
GE120ES/Z*	120.00	120.00	135.60	180.00	70.00	85.00	160.00	1.50	1.50	997.67
GE140ES/Z*	140.00	140.00	155.90	210.00	70.00	90.00	180.00	1.50	1.50	1551.18
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	O/R
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 - Spherical Ball Bushing

Steel (With Seals)



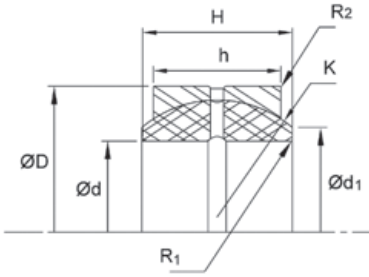


Ref.Number	Rod diameter		Nominal Bushing Dimensions								$
		Tol.	d	d1	D	h	H	K	R1	R2	
GE15ES2RS/Z*	15.00	+0.00 / -0.04	15.00	18.40	26.00	9.00	12.00	22.00	0.80	0.80	29.23
GE17ES2RS/Z*	17.00	+0.00 / -0.04	17.00	20.70	30.00	10.00	14.00	25.00	0.80	0.80	30.86
GE20ES2RS/Z	20.00	+0.00 / -0.04	20.00	24.20	35.00	12.00	16.00	29.00	0.80	1.00	32.48
GE25ES2RS/Z	25.00	+0.00 / -0.04	25.00	29.30	42.00	16.00	20.00	35.50	0.80	1.00	33.34
GE30ES2RS/Z	30.00	+0.00 / -0.04	30.00	34.20	47.00	18.00	22.00	40.70	0.80	1.00	47.31
GE35ES2RS/Z	35.00	+0.00 / -0.04	35.00	39.80	55.00	20.00	25.00	47.00	1.00	1.20	47.31
GE40ES2RS/Z	40.00	+0.00 / -0.05	40.00	45.00	62.00	22.00	28.00	53.00	1.00	1.20	46.40
GE45ES2RS/Z	45.00	+0.00 / -0.05	45.00	50.80	68.00	25.00	32.00	60.00	1.00	1.20	83.47
GE50ES2RS/Z	50.00	+0.00 / -0.05	50.00	56.00	75.00	28.00	35.00	66.00	1.00	1.20	153.89
GE60ES2RS/Z	60.00	+0.00 / -0.05	60.00	66.80	90.00	36.00	44.00	80.00	1.20	1.50	158.34
GE70ES2RS/Z	70.00	+0.00 / -0.06	70.00	77.90	105.00	40.00	49.00	92.00	1.20	1.50	153.89
GE80ES2RS/Z	80.00	+0.00 / -0.09	80.00	89.40	120.00	45.00	55.00	105.00	1.20	1.50	264.01
GE90ES2RS/Z	90.00	+0.00 / -0.09	90.00	98.10	130.00	50.00	60.00	115.00	1.50	1.50	340.49
GE100ES2RS/Z*	100.00	+0.00 / -0.09	100.00	109.50	150.00	55.00	70.00	130.00	1.50	1.50	511.16
GE110ES2RS/Z*	110.00	+0.00 / -0.13	110.00	121.20	160.00	55.00	70.00	140.00	1.50	1.50	620.97
GE120ES2RS/Z*	120.00	+0.00 / -0.13	120.00	135.60	180.00	70.00	85.00	160.00	1.50	1.50	879.60
GE140ES2RS/Z	140.00	+0.00 / -0.13	140.00	155.90	210.00	70.00	90.00	180.00	1.50	1.50	1367.61
GE160ES2RS/Z*	160.00	+0.00 / -0.13	160.00	170.20	230.00	80.00	105.00	200.00	1.50	1.50	1715.69
GE180ES2RS/Z*	180.00	+0.00 / -0.13	180.00	199.00	260.00	80.00	105.00	225.00	2.00	2.00	O/R
GE200ES2RS/Z*	200.00	+0.00 / -0.13	200.00	213.50	290.00	100.00	130.00	250.00	2.00	2.00	O/R
GE220ES2RS/Z*	220.00	+0.00 / -0.13	220.00	239.60	320.00	100.00	135.00	275.00	2.00	2.00	O/R
GE240ES2RS/Z*	240.00	+0.00 / -0.13	240.00	265.30	340.00	100.00	140.00	300.00	2.00	2.00	O/R
GE260ES2RS/Z*	260.00	+0.00 / -0.13	260.00	288.30	370.00	110.00	150.00	325.00	2.00	2.00	O/R
GE280ES2RS/Z*	280.00	+0.00 / -0.13	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 - Spherical Ball Bushing

Steel (Without Seals)

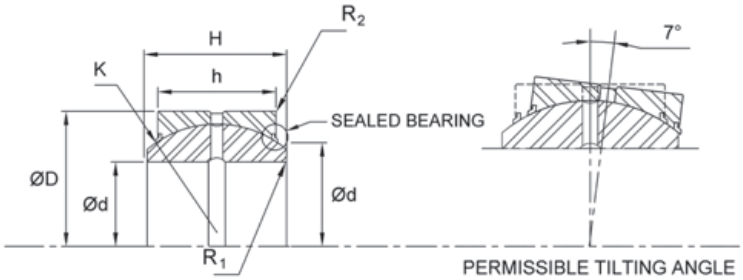


Ref.Number	Rod diameter		Nominal Bushing Dimensions								$
		Tol.	d	d1	D	h	H	K	R1	R2	
GE6G/Z*	6.00		6.00	9.40	16.00	5.00	9.00	13.00	0.50	0.50	O/R
GE8G/Z*	8.00		8.00	11.60	19.00	6.00	11.00	16.00	0.50	0.50	O/R
GE10G/Z*	10.00		10.00	13.40	22.00	7.00	12.00	18.00	0.80	0.80	33.08
GE12G/Z*	12.00		12.00	16.10	26.00	9.00	15.00	22.00	0.80	0.80	40.08
GE15GS/Z*	15.00		15.00	19.20	30.00	10.00	16.00	25.00	0.80	0.80	44.02
GE17GS/Z*	17.00		17.00	21.00	35.00	12.00	20.00	29.00	0.80	1.00	49.44
GE20GS/Z*	20.00		20.00	25.20	42.00	16.00	25.00	35.50	0.80	1.00	59.57
GE25GS/Z*	25.00		25.00	29.50	47.00	18.00	28.00	40.70	0.80	1.00	71.31
GE30GS/Z*	30.00		30.00	34.40	55.00	20.00	32.00	47.00	0.80	1.20	87.96
GE35GS/Z*	35.00		35.00	39.80	62.00	22.00	35.00	53.00	1.00	1.20	104.86
GE40GS/Z	40.00		40.00	44.70	68.00	25.00	40.00	60.00	1.00	1.20	122.85
GE45GS/Z*	45.00		45.00	50.10	75.00	28.00	43.00	66.00	1.00	1.20	145.94
GE50GS/Z*	50.00		50.00	57.10	90.00	36.00	56.00	80.00	1.00	1.50	220.58
GE60GS/Z*	60.00		60.00	67.10	105.00	40.00	63.00	92.00	1.20	1.50	294.43
GE70GS/Z*	70.00		70.00	78.30	120.00	45.00	70.00	105.00	1.20	1.50	457.11
GE80GS/Z*	80.00		80.00	87.20	130.00	50.00	75.00	115.00	1.20	1.50	589.85
GE90GS/Z*	90.00		90.00	98.40	150.00	55.00	85.00	130.00	1.50	1.50	759.82
GE100GS/Z*	100.00		100.00	111.20	160.00	55.00	85.00	140.00	1.50	1.50	889.49
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	O/R
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
GE220GS/Z*	220.00		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

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

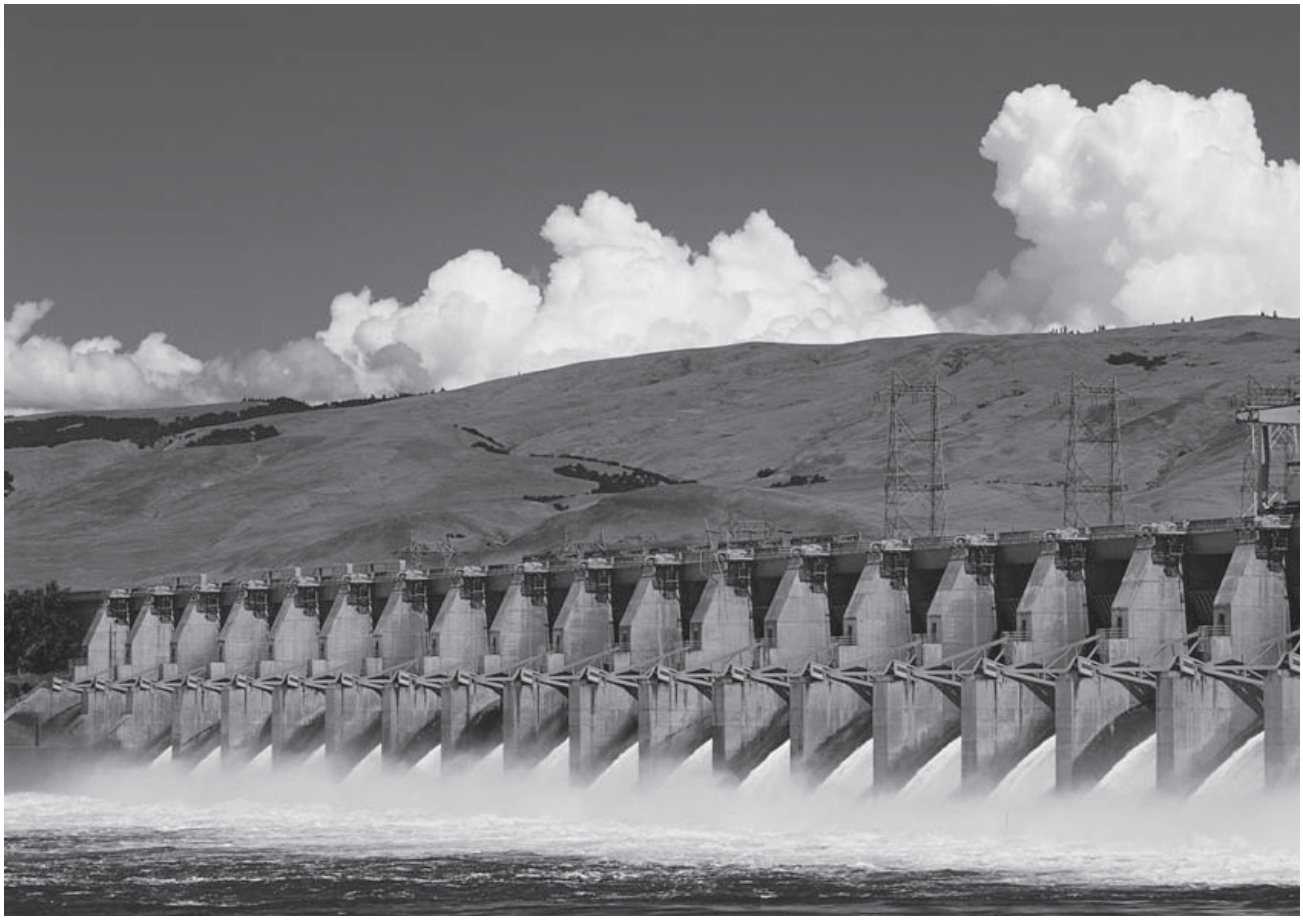
GE-GS2RS - Spherical Ball Bushing

Steel (With Seals)



Ref.Number	Rod diameter	Nominal Bushing Dimensions								$
	Tol.	d	d1	D	h	H	K	R1	R2	
GE15GS2RS/Z*	15.00	15.00	19.20	30.00	10.00	16.00	25.00	0.80	0.80	50.57
GE17GS2RS/Z*	17.00	17.00	21.00	35.00	12.00	20.00	29.00	0.80	1.00	57.11
GE20GS2RS/Z*	20.00	20.00	25.20	42.00	16.00	25.00	35.50	0.80	1.00	67.94
GE25GS2RS/Z*	25.00	25.00	29.50	47.00	18.00	28.00	40.70	0.80	1.00	80.34
GE30GS2RS/Z*	30.00	30.00	34.40	55.00	20.00	32.00	47.00	0.80	1.20	95.74
GE35GS2RS/Z*	35.00	35.00	39.80	62.00	22.00	35.00	53.00	1.00	1.20	121.71
GE40GS2RS/Z	40.00	40.00	44.70	68.00	25.00	40.00	60.00	1.00	1.20	141.60
GE45GS2RS/Z*	45.00	45.00	50.10	75.00	28.00	43.00	66.00	1.00	1.20	167.31
GE50GS2RS/Z*	50.00	50.00	57.10	90.00	36.00	56.00	80.00	1.00	1.50	236.82
GE60GS2RS/Z*	60.00	60.00	67.10	105.00	40.00	63.00	92.00	1.20	1.50	318.65
GE70GS2RS/Z*	70.00	70.00	78.30	120.00	45.00	70.00	105.00	1.20	1.50	482.52
GE80GS2RS/Z*	80.00	80.00	87.20	130.00	50.00	75.00	115.00	1.20	1.50	618.50
GE90GS2RS/Z*	90.00	90.00	98.40	150.00	55.00	85.00	130.00	1.50	1.50	971.92
GE100GS2RS/Z	100.00	100.00	111.20	160.00	55.00	85.00	140.00	1.50	1.50	1046.46
GE110GS2RS/Z*	110.00	110.00	124.90	180.00	70.00	100.00	160.00	1.50	1.50	O/R
GE120GS2RS/Z*	120.00	120.00	138.50	210.00	70.00	115.00	180.00	1.50	1.50	1206.84
GE140GS2RS/Z*	140.00	140.00	152.00	230.00	80.00	130.00	200.00	1.50	1.50	O/R
GE160GS2RS/Z*	160.00	160.00	180.00	260.00	80.00	135.00	225.00	1.50	2.00	O/R
GE180GS2RS/Z*	180.00	180.00	196.20	290.00	100.00	155.00	250.00	2.00	2.00	O/R
GE200GS2RS/Z*	200.00	200.00	220.00	320.00	100.00	165.00	275.00	2.00	2.00	O/R
GE220GS2RS/Z*	220.00	220.00	243.70	340.00	100.00	175.00	300.00	2.00	2.00	O/R
GE240GS2RS/Z*	240.00	240.00	263.70	370.00	110.00	190.00	325.00	2.00	2.00	O/R
GE260GS2RS/Z*	260.00	260.00	283.70	400.00	120.00	205.00	350.00	2.00	2.00	O/R
GE280GS2RS/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**



INFO	TOLERANCE TO DIN 3771 & ISO 3601/1	O	2
INFO	O'RING INSTALLATION DIMENSIONS	O	3
	METRIC O'RINGS NBR 70A	O	4
INFO	JAPANESE INDUSTRIAL STD O'RING	O	41
	METRIC O'RINGS NBR 90A	O	43
	METRIC O'RINGS SILICONE 72	O	48
	METRIC O'RINGS FPM 70	O	49
	METRIC O'RINGS FPM 90	O	51
	METRIC O'RING CORD	O	51
	O'RING KITS AND ACCESSORIES	O	52
	SD/T & ST/T	O	53
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INFO	USIT RINGS - REFERENCE TABLE	O	66

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%

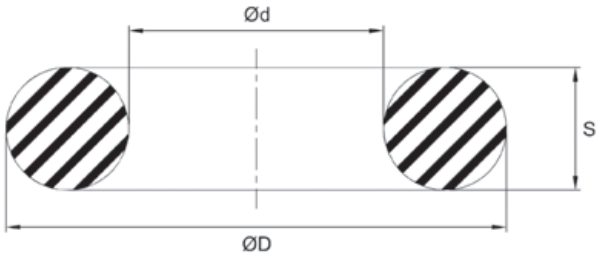
Cord ø S			Tol.
< 2,62			± 0.08
> 2,62	...	3.00	± 0.09
> 3,00	...	4.50	± 0.10
> 4,50	...	5.50	± 0.13
> 5,50	...	7.50	± 0.15
> 7,50	...	8.50	± 0.18
> 8,50	...	10.00	± 0.20

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

METRIC O'RINGS

Nitrile NBR 70A



Temperature: -30/250F [-34/121C] **Pressure:**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0011010/N	1.10	3.10	1.00	0.11	MOR0200010/N	20.00	22.00	1.00	0.16
MOR0015010/N*	1.50	3.50	1.00	0.11	MOR0205010/N*	20.50	22.50	1.00	0.16
MOR0017010/N*	1.70	3.70	1.00	0.11	MOR0210010/N*	21.00	23.00	1.00	0.16
MOR0018010/N*	1.80	3.80	1.00	0.11	MOR0215010/N*	21.50	23.50	1.00	0.16
MOR0020010/N	2.00	4.00	1.00	0.13	MOR0220010/N	22.00	24.00	1.00	0.32
MOR0025010/N	2.50	4.50	1.00	0.13	MOR0225010/N*	22.50	24.50	1.00	0.32
MOR0030010/N	3.00	5.00	1.00	0.13	MOR0230010/N	23.00	25.00	1.00	0.33
MOR0035010/N	3.50	5.50	1.00	0.13	MOR0235010/N*	23.50	25.50	1.00	0.33
MOR0040010/N	4.00	6.00	1.00	0.14	MOR0240010/N*	24.00	26.00	1.00	0.36
MOR0045010/N	4.50	6.50	1.00	0.14	MOR0245010/N*	24.50	26.50	1.00	0.36
MOR0050010/N	5.00	7.00	1.00	0.14	MOR0250010/N	25.00	27.00	1.00	0.37
MOR0055010/N	5.50	7.50	1.00	0.14	MOR0280010/N	28.00	30.00	1.00	0.37
MOR0060010/N	6.00	8.00	1.00	0.14	MOR0300010/N	30.00	32.00	1.00	0.37
MOR0065010/N	6.50	8.50	1.00	0.14	MOR0320010/N	32.00	34.00	1.00	0.42
MOR0070010/N	7.00	9.00	1.00	0.15	MOR0350010/N*	35.00	37.00	1.00	0.69
MOR0075010/N	7.50	9.50	1.00	0.15	MOR0380010/N	38.00	40.00	1.00	0.42
MOR0080010/N	8.00	10.00	1.00	0.15	MOR0390010/N	39.00	41.00	1.00	0.42
MOR0085010/N*	8.50	10.50	1.00	0.15	MOR0400010/N*	40.00	42.00	1.00	0.42
MOR0090010/N	9.00	11.00	1.00	0.15	MOR0450010/N*	45.00	47.00	1.00	0.42
MOR0100010/N	10.00	12.00	1.00	0.15	MOR0480010/N	48.00	50.00	1.00	0.50
MOR0105010/N	10.50	12.50	1.00	0.15	MOR0550010/N*	55.00	57.00	1.00	0.50
MOR0110010/N	11.00	13.00	1.00	0.15	MOR0580010/N	58.00	60.00	1.00	0.50
MOR0120010/N	12.00	14.00	1.00	0.15	MOR0600010/N	60.00	62.00	1.00	0.50
MOR0125010/N*	12.50	14.50	1.00	0.15	MOR0025012/N*	2.50	4.90	1.20	0.07
MOR0130010/N	13.00	15.00	1.00	0.15	MOR0185012/N*	18.50	20.90	1.20	0.07
MOR0135010/N*	13.50	15.50	1.00	0.15	MOR0018015/N*	1.80	4.80	1.50	0.08
MOR0140010/N*	14.00	16.00	1.00	0.15	MOR0020015/N	2.00	5.00	1.50	0.08
MOR0145010/N*	14.50	16.50	1.00	0.15	MOR0025015/N	2.50	5.50	1.50	0.08
MOR0150010/N	15.00	17.00	1.00	0.15	MOR0028015/N*	2.80	5.80	1.50	0.08
MOR0155010/N*	15.50	17.50	1.00	0.15	MOR0030015/N	3.00	6.00	1.50	0.08
MOR0160010/N	16.00	18.00	1.00	0.15	MOR0035015/N	3.50	6.50	1.50	0.08
MOR0165010/N*	16.50	18.50	1.00	0.16	MOR0040015/N	4.00	7.00	1.50	0.08
MOR0170010/N	17.00	19.00	1.00	0.16	MOR0045015/N	4.50	7.50	1.50	0.09
MOR0175010/N*	17.50	19.50	1.00	0.16	MOR0050015/N	5.00	8.00	1.50	0.09
MOR0180010/N	18.00	20.00	1.00	0.16	MOR0055015/N	5.50	8.50	1.50	0.09
MOR0185010/N*	18.50	20.50	1.00	0.16	MOR0060015/N	6.00	9.00	1.50	0.09
MOR0190010/N*	19.00	21.00	1.00	0.16	MOR0065015/N	6.50	9.50	1.50	0.09
MOR0195010/N*	19.50	21.50	1.00	0.16	MOR0070015/N	7.00	10.00	1.50	0.09

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0075015/N	7.50	10.50	1.50	0.09
MOR0080015/N	8.00	11.00	1.50	0.09
MOR0085015/N	8.50	11.50	1.50	0.09
MOR0090015/N	9.00	12.00	1.50	0.09
MOR0100015/N	10.00	13.00	1.50	0.11
MOR0105015/N*	10.50	13.50	1.50	0.11
MOR0110015/N	11.00	14.00	1.50	0.11
MOR0115015/N	11.50	14.50	1.50	0.27
MOR0120015/N	12.00	15.00	1.50	0.11
MOR0125015/N*	12.50	15.50	1.50	0.11
MOR0130015/N	13.00	16.00	1.50	0.11
MOR0135015/N*	13.50	16.50	1.50	0.11
MOR0140015/N	14.00	17.00	1.50	0.13
MOR0145015/N*	14.50	17.50	1.50	0.13
MOR0150015/N	15.00	18.00	1.50	0.13
MOR0155015/N*	15.50	18.50	1.50	0.13
MOR0160015/N	16.00	19.00	1.50	0.15
MOR0165015/N	16.50	19.50	1.50	0.16
MOR0170015/N	17.00	20.00	1.50	0.16
MOR0175015/N	17.50	20.50	1.50	0.16
MOR0180015/N	18.00	21.00	1.50	0.16
MOR0185015/N*	18.50	21.50	1.50	0.16
MOR0190015/N	19.00	22.00	1.50	0.16
MOR0195015/N	19.50	22.50	1.50	0.16
MOR0200015/N	20.00	23.00	1.50	0.16
MOR0205015/N*	20.50	23.50	1.50	0.16
MOR0210015/N	21.00	24.00	1.50	0.20
MOR0215015/N*	21.50	24.50	1.50	0.20
MOR0220015/N	22.00	25.00	1.50	0.20
MOR0225015/N*	22.50	25.50	1.50	0.20
MOR0230015/N	23.00	26.00	1.50	0.20
MOR0235015/N	23.50	26.50	1.50	0.20
MOR0240015/N	24.00	27.00	1.50	0.20
MOR0245015/N*	24.50	27.50	1.50	0.20
MOR0250015/N	25.00	28.00	1.50	0.20
MOR0255015/N*	25.50	28.50	1.50	0.20
MOR0260015/N	26.00	29.00	1.50	0.24
MOR0265015/N*	26.50	29.50	1.50	0.24
MOR0270015/N	27.00	30.00	1.50	0.24
MOR0275015/N	27.50	30.50	1.50	0.24
MOR0280015/N	28.00	31.00	1.50	0.24
MOR0285015/N*	28.50	31.50	1.50	0.24
MOR0290015/N	29.00	32.00	1.50	0.24
MOR0295015/N*	29.50	32.50	1.50	0.24
MOR0300015/N	30.00	33.00	1.50	0.24
MOR0305015/N*	30.50	33.50	1.50	0.24
MOR0310015/N	31.00	34.00	1.50	0.29
MOR0315015/N*	31.50	34.50	1.50	0.29

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0320015/N	32.00	35.00	1.50	0.29
MOR0325015/N*	32.50	35.50	1.50	0.29
MOR0330015/N	33.00	36.00	1.50	0.29
MOR0335015/N*	33.50	36.50	1.50	0.29
MOR0340015/N	34.00	37.00	1.50	0.29
MOR0345015/N*	34.50	37.50	1.50	0.29
MOR0350015/N	35.00	38.00	1.50	0.29
MOR0355015/N*	35.50	38.50	1.50	0.29
MOR0360015/N	36.00	39.00	1.50	0.33
MOR0365015/N*	36.50	39.50	1.50	0.33
MOR0370015/N	37.00	40.00	1.50	0.33
MOR0375015/N*	37.50	40.50	1.50	0.33
MOR0380015/N	38.00	41.00	1.50	0.33
MOR0385015/N*	38.50	41.50	1.50	0.33
MOR0390015/N	39.00	42.00	1.50	0.33
MOR0395015/N	39.50	42.50	1.50	0.33
MOR0400015/N	40.00	43.00	1.50	0.33
MOR0410015/N	41.00	44.00	1.50	0.37
MOR0420015/N	42.00	45.00	1.50	0.37
MOR0430015/N	43.00	46.00	1.50	0.37
MOR0440015/N	44.00	47.00	1.50	0.37
MOR0450015/N	45.00	48.00	1.50	0.37
MOR0460015/N*	46.00	49.00	1.50	0.42
MOR0470015/N	47.00	50.00	1.50	0.42
MOR0480015/N	48.00	51.00	1.50	0.43
MOR0490015/N	49.00	52.00	1.50	0.43
MOR0500015/N	50.00	53.00	1.50	0.43
MOR0510015/N	51.00	54.00	1.50	0.43
MOR0520015/N	52.00	55.00	1.50	0.43
MOR0530015/N	53.00	56.00	1.50	0.43
MOR0540015/N	54.00	57.00	1.50	0.46
MOR0550015/N	55.00	58.00	1.50	0.46
MOR0560015/N	56.00	59.00	1.50	0.48
MOR0570015/N	57.00	60.00	1.50	0.48
MOR0580015/N	58.00	61.00	1.50	0.49
MOR0590015/N	59.00	62.00	1.50	0.49
MOR0600015/N	60.00	63.00	1.50	0.49
MOR0610015/N	61.00	64.00	1.50	0.49
MOR0620015/N	62.00	65.00	1.50	0.49
MOR0630015/N	63.00	66.00	1.50	0.49
MOR0640015/N	64.00	67.00	1.50	0.49
MOR0650015/N	65.00	68.00	1.50	0.49
MOR0660015/N	66.00	69.00	1.50	0.51
MOR0670015/N*	67.00	70.00	1.50	0.51
MOR0680015/N*	68.00	71.00	1.50	0.51
MOR0690015/N	69.00	72.00	1.50	0.51
MOR0700015/N	70.00	73.00	1.50	0.51
MOR0710015/N	71.00	74.00	1.50	0.51

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0720015/N	72.00	75.00	1.50	0.51	MOR0151016/N*	15.10	18.30	1.60	0.58
MOR0730015/N	73.00	76.00	1.50	0.53	MOR0161016/N*	16.10	19.30	1.60	0.58
MOR0740015/N*	74.00	77.00	1.50	0.53	MOR0171016/N*	17.10	20.30	1.60	0.65
MOR0750015/N*	75.00	78.00	1.50	0.53	MOR0181016/N	18.10	21.30	1.60	0.65
MOR0760015/N	76.00	79.00	1.50	0.53	MOR0191016/N	19.10	22.30	1.60	0.65
MOR0770015/N	77.00	80.00	1.50	0.53	MOR0201016/N	20.10	23.30	1.60	0.65
MOR0780015/N	78.00	81.00	1.50	1.01	MOR0211016/N*	21.10	24.30	1.60	0.77
MOR0790015/N	79.00	82.00	1.50	1.01	MOR0221016/N	22.10	25.30	1.60	0.77
MOR0800015/N	80.00	83.00	1.50	1.01	MOR0224016/N*	22.40	25.60	1.60	0.77
MOR0810015/N*	81.00	84.00	1.50	1.01	MOR0251016/N*	25.10	28.30	1.60	0.77
MOR0820015/N	82.00	85.00	1.50	1.01	MOR0271016/N*	27.10	30.30	1.60	0.77
MOR0830015/N*	83.00	86.00	1.50	1.01	MOR0290016/N*	29.00	32.20	1.60	0.89
MOR0840015/N	84.00	87.00	1.50	1.01	MOR0291016/N*	29.10	32.30	1.60	0.89
MOR0850015/N	85.00	88.00	1.50	1.01	MOR0321016/N*	32.10	35.30	1.60	0.89
MOR0860015/N	86.00	89.00	1.50	1.01	MOR0351016/N	35.10	38.30	1.60	0.89
MOR0870015/N	87.00	90.00	1.50	1.01	MOR0371016/N*	37.10	40.30	1.60	0.89
MOR0880015/N	88.00	91.00	1.50	1.01	MOR0031017/N*	3.10	6.50	1.70	0.07
MOR0890015/N	89.00	92.00	1.50	1.01	MOR0047017/N	4.70	8.10	1.70	0.07
MOR0900015/N	90.00	93.00	1.50	1.01	MOR0063017/N*	6.30	9.70	1.70	0.07
MOR0910015/N*	91.00	94.00	1.50	1.01	MOR0067017/N	6.70	10.10	1.70	0.07
MOR0920015/N*	92.00	95.00	1.50	1.01	MOR0079017/N*	7.90	11.30	1.70	0.07
MOR0930015/N*	93.00	96.00	1.50	1.01	MOR0087017/N*	8.70	12.10	1.70	0.18
MOR0940015/N*	94.00	97.00	1.50	1.01	MOR0111017/N*	11.10	14.50	1.70	0.22
MOR0950015/N*	95.00	98.00	1.50	1.01	MOR0362017/N*	36.20	39.60	1.70	3.93
MOR0960015/N*	96.00	99.00	1.50	1.26	MOR0394017/N*	39.40	42.80	1.70	3.93
MOR0970015/N*	97.00	100.00	1.50	1.42	MOR0790017/N	79.00	82.40	1.70	3.93
MOR0980015/N*	98.00	101.00	1.50	1.60	MOR0853017/N*	85.30	88.70	1.70	3.93
MOR0990015/N*	99.00	102.00	1.50	2.06	MOR0917017/N*	91.70	95.10	1.70	4.40
MOR1000015/N	100.00	103.00	1.50	2.08	MOR0980017/N*	98.00	101.40	1.70	4.40
MOR1350015/N*	135.00	138.00	1.50	2.43	MOR1044017/N*	104.40	107.80	1.70	4.40
MOR1450015/N*	145.00	148.00	1.50	3.70	MOR1107017/N*	110.70	114.10	1.70	4.40
MOR0022016/N	2.20	5.40	1.60	0.12	MOR1171017/N*	117.10	120.50	1.70	4.86
MOR0027016/N*	2.70	5.90	1.60	0.12	MOR1203017/N*	120.30	123.70	1.70	4.86
MOR0031016/N	3.10	6.30	1.60	0.12	MOR1234017/N*	123.40	126.80	1.70	4.86
MOR0041016/N	4.10	7.30	1.60	0.27	MOR1294017/N*	129.40	132.80	1.70	4.86
MOR0047016/N	4.70	7.90	1.60	0.27	MOR1357017/N*	135.70	139.10	1.70	4.86
MOR0050016/N*	5.00	8.20	1.60	0.27	MOR1389017/N*	138.90	142.30	1.70	5.12
MOR0051016/N*	5.10	8.30	1.60	0.29	MOR1421017/N*	142.10	145.50	1.70	5.12
MOR0061016/N	6.10	9.30	1.60	0.29	MOR1452017/N	145.20	148.60	1.70	5.12
MOR0071016/N	7.10	10.30	1.60	0.29	MOR1484017/N*	148.40	151.80	1.70	5.12
MOR0079016/N	7.90	11.10	1.60	0.35	MOR1516017/N*	151.60	155.00	1.70	5.12
MOR0081016/N*	8.10	11.30	1.60	0.35	MOR1548017/N*	154.80	158.20	1.70	5.12
MOR0091016/N*	9.10	12.30	1.60	0.35	MOR1580017/N*	158.00	161.40	1.70	5.48
MOR0101016/N	10.10	13.30	1.60	0.35	MOR1611017/N*	161.10	164.50	1.70	5.48
MOR0111016/N	11.10	14.30	1.60	0.35	MOR1643017/N*	164.30	167.70	1.70	5.48
MOR0121016/N	12.10	15.30	1.60	0.39	MOR1675017/N*	167.50	170.90	1.70	5.48
MOR0131016/N	13.10	16.30	1.60	0.39	MOR1706017/N*	170.60	174.00	1.70	6.87
MOR0141016/N	14.10	17.30	1.60	0.58	MOR1738017/N*	173.80	177.20	1.70	7.27

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0018018/N*	1.80	5.40	1.80	0.18
MOR0020018/N*	2.00	5.60	1.80	0.18
MOR0022018/N*	2.20	5.80	1.80	0.18
MOR0025018/N*	2.50	6.10	1.80	0.19
MOR0028018/N*	2.80	6.40	1.80	0.19
MOR0031018/N*	3.10	6.70	1.80	0.19
MOR0035018/N*	3.50	7.10	1.80	0.19
MOR0037018/N*	3.70	7.30	1.80	0.19
MOR0040018/N*	4.00	7.60	1.80	0.19
MOR0045018/N*	4.50	8.10	1.80	0.19
MOR0048018/N*	4.80	8.40	1.80	0.19
MOR0050018/N*	5.00	8.60	1.80	0.19
MOR0051018/N*	5.10	8.70	1.80	0.19
MOR0053018/N	5.30	8.90	1.80	0.19
MOR0056018/N*	5.60	9.20	1.80	0.19
MOR0060018/N*	6.00	9.60	1.80	0.19
MOR0063018/N*	6.30	9.90	1.80	0.19
MOR0067018/N	6.70	10.30	1.80	0.19
MOR0069018/N*	6.90	10.50	1.80	0.19
MOR0071018/N*	7.10	10.70	1.80	0.19
MOR0075018/N	7.50	11.10	1.80	0.19
MOR0080018/N	8.00	11.60	1.80	0.21
MOR0085018/N*	8.50	12.10	1.80	0.21
MOR0087018/N	8.70	12.30	1.80	0.21
MOR0100018/N	10.00	13.60	1.80	0.21
MOR0106018/N*	10.60	14.20	1.80	0.21
MOR0112018/N*	11.20	14.80	1.80	0.21
MOR0118018/N*	11.80	15.40	1.80	0.21
MOR0125018/N	12.50	16.10	1.80	0.21
MOR0132018/N*	13.20	16.80	1.80	0.21
MOR0140018/N*	14.00	17.60	1.80	0.24
MOR0150018/N*	15.00	18.60	1.80	0.24
MOR0160018/N	16.00	19.60	1.80	0.24
MOR0024019/N*	2.40	6.20	1.90	0.07
MOR0026019/N*	2.60	6.40	1.90	0.07
MOR0028019/N*	2.80	6.60	1.90	0.07
MOR0034019/N*	3.40	7.20	1.90	0.07
MOR0038019/N*	3.80	7.60	1.90	0.07
MOR0042019/N*	4.20	8.00	1.90	0.07
MOR0048019/N*	4.80	8.60	1.90	0.07
MOR0049019/N*	4.90	8.70	1.90	0.07
MOR0057019/N*	5.70	9.50	1.90	0.07
MOR0058019/N*	5.80	9.60	1.90	0.07
MOR0064019/N	6.40	10.20	1.90	0.07
MOR0068019/N	6.80	10.60	1.90	0.07
MOR0072019/N*	7.20	11.00	1.90	0.08
MOR0078019/N*	7.80	11.60	1.90	0.08
MOR0080019/N*	8.00	11.80	1.90	0.08
MOR0088019/N*	8.80	12.60	1.90	0.08
MOR0089019/N*	8.90	12.70	1.90	0.08
MOR0098019/N	9.80	13.60	1.90	0.08
MOR0025020/N*	2.50	6.50	2.00	0.08
MOR0030020/N	3.00	7.00	2.00	0.08
MOR0035020/N*	3.50	7.50	2.00	0.08
MOR0040020/N	4.00	8.00	2.00	0.08
MOR0045020/N	4.50	8.50	2.00	0.10
MOR0046020/N*	4.60	8.60	2.00	0.10
MOR0050020/N	5.00	9.00	2.00	0.10
MOR0055020/N*	5.50	9.50	2.00	0.10
MOR0057020/N*	5.70	9.70	2.00	0.10
MOR0060020/N	6.00	10.00	2.00	0.10
MOR0065020/N	6.50	10.50	2.00	0.10
MOR0070020/N	7.00	11.00	2.00	0.10
MOR0075020/N	7.50	11.50	2.00	0.10
MOR0080020/N	8.00	12.00	2.00	0.10
MOR0085020/N*	8.50	12.50	2.00	0.10
MOR0086020/N*	8.60	12.60	2.00	0.10
MOR0090020/N	9.00	13.00	2.00	0.10
MOR0100020/N	10.00	14.00	2.00	0.11
MOR0110020/N	11.00	15.00	2.00	0.11
MOR0115020/N	11.50	15.50	2.00	0.11
MOR0120020/N	12.00	16.00	2.00	0.11
MOR0125020/N	12.50	16.50	2.00	0.11
MOR0130020/N	13.00	17.00	2.00	0.13
MOR0135020/N*	13.50	17.50	2.00	0.13
MOR0140020/N	14.00	18.00	2.00	0.13
MOR0145020/N*	14.50	18.50	2.00	0.13
MOR0150020/N	15.00	19.00	2.00	0.13
MOR0155020/N*	15.50	19.50	2.00	0.13
MOR0160020/N	16.00	20.00	2.00	0.15
MOR0165020/N*	16.50	20.50	2.00	0.15
MOR0170020/N	17.00	21.00	2.00	0.15
MOR0175020/N*	17.50	21.50	2.00	0.15
MOR0180020/N	18.00	22.00	2.00	0.15
MOR0185020/N*	18.50	22.50	2.00	0.15
MOR0190020/N	19.00	23.00	2.00	0.15
MOR0195020/N*	19.50	23.50	2.00	0.15
MOR0200020/N	20.00	24.00	2.00	0.15
MOR0205020/N	20.50	24.50	2.00	0.20
MOR0210020/N	21.00	25.00	2.00	0.20
MOR0215020/N*	21.50	25.50	2.00	0.20
MOR0220020/N	22.00	26.00	2.00	0.20
MOR0225020/N*	22.50	26.50	2.00	0.20
MOR0230020/N	23.00	27.00	2.00	0.20
MOR0235020/N*	23.50	27.50	2.00	0.20
MOR0240020/N	24.00	28.00	2.00	0.28

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0245020/N	24.50	28.50	2.00	0.22	MOR0570020/N*	57.00	61.00	2.00	0.48
MOR0250020/N	25.00	29.00	2.00	0.22	MOR0580020/N	58.00	62.00	2.00	0.48
MOR0255020/N	25.50	29.50	2.00	0.22	MOR0590020/N	59.00	63.00	2.00	0.49
MOR0260020/N	26.00	30.00	2.00	0.22	MOR0600020/N	60.00	64.00	2.00	0.61
MOR0265020/N*	26.50	30.50	2.00	0.22	MOR0610020/N	61.00	65.00	2.00	0.61
MOR0270020/N	27.00	31.00	2.00	0.22	MOR0620020/N	62.00	66.00	2.00	0.61
MOR0280020/N	28.00	32.00	2.00	0.24	MOR0630020/N	63.00	67.00	2.00	0.61
MOR0285020/N*	28.50	32.50	2.00	0.24	MOR0640020/N	64.00	68.00	2.00	0.66
MOR0290020/N	29.00	33.00	2.00	0.24	MOR0650020/N	65.00	69.00	2.00	0.66
MOR0295020/N*	29.50	33.50	2.00	0.24	MOR0660020/N	66.00	70.00	2.00	0.66
MOR0300020/N	30.00	34.00	2.00	0.25	MOR0670020/N	67.00	71.00	2.00	1.00
MOR0305020/N*	30.50	34.50	2.00	0.25	MOR0680020/N	68.00	72.00	2.00	0.66
MOR0310020/N	31.00	35.00	2.00	0.27	MOR0690020/N	69.00	73.00	2.00	0.66
MOR0315020/N*	31.50	35.50	2.00	0.27	MOR0700020/N	70.00	74.00	2.00	0.66
MOR0320020/N	32.00	36.00	2.00	0.28	MOR0710020/N	71.00	75.00	2.00	0.72
MOR0322020/N*	32.20	36.20	2.00	0.28	MOR0720020/N	72.00	76.00	2.00	0.72
MOR0325020/N*	32.50	36.50	2.00	0.28	MOR0730020/N	73.00	77.00	2.00	0.72
MOR0330020/N	33.00	37.00	2.00	0.28	MOR0740020/N	74.00	78.00	2.00	0.72
MOR0335020/N*	33.50	37.50	2.00	0.28	MOR0750020/N*	75.00	79.00	2.00	0.72
MOR0340020/N	34.00	38.00	2.00	0.29	MOR0760020/N	76.00	80.00	2.00	0.76
MOR0345020/N*	34.50	38.50	2.00	0.29	MOR0770020/N*	77.00	81.00	2.00	0.76
MOR0350020/N	35.00	39.00	2.00	0.29	MOR0780020/N	78.00	82.00	2.00	0.76
MOR0355020/N*	35.50	39.50	2.00	0.29	MOR0790020/N	79.00	83.00	2.00	0.76
MOR0360020/N	36.00	40.00	2.00	0.29	MOR0800020/N	80.00	84.00	2.00	0.76
MOR0365020/N*	36.50	40.50	2.00	0.29	MOR0810020/N	81.00	85.00	2.00	0.81
MOR0370020/N	37.00	41.00	2.00	0.29	MOR0820020/N	82.00	86.00	2.00	0.81
MOR0375020/N	37.50	41.50	2.00	0.29	MOR0830020/N	83.00	87.00	2.00	0.81
MOR0380020/N	38.00	42.00	2.00	0.32	MOR0840020/N	84.00	88.00	2.00	0.81
MOR0385020/N	38.50	42.50	2.00	0.32	MOR0850020/N	85.00	89.00	2.00	0.81
MOR0390020/N	39.00	43.00	2.00	0.32	MOR0860020/N*	86.00	90.00	2.00	0.86
MOR0395020/N*	39.50	43.50	2.00	0.32	MOR0870020/N	87.00	91.00	2.00	0.86
MOR0400020/N	40.00	44.00	2.00	0.32	MOR0880020/N	88.00	92.00	2.00	0.86
MOR0410020/N	41.00	45.00	2.00	0.32	MOR0890020/N	89.00	93.00	2.00	0.86
MOR0420020/N	42.00	46.00	2.00	0.32	MOR0900020/N	90.00	94.00	2.00	0.86
MOR0430020/N	43.00	47.00	2.00	0.37	MOR0910020/N	91.00	95.00	2.00	0.86
MOR0440020/N	44.00	48.00	2.00	0.37	MOR0920020/N	92.00	96.00	2.00	0.86
MOR0450020/N	45.00	49.00	2.00	0.37	MOR0930020/N	93.00	97.00	2.00	0.86
MOR0460020/N	46.00	50.00	2.00	0.42	MOR0940020/N	94.00	98.00	2.00	1.03
MOR0470020/N	47.00	51.00	2.00	0.42	MOR0950020/N	95.00	99.00	2.00	1.03
MOR0480020/N	48.00	52.00	2.00	0.42	MOR0960020/N	96.00	100.00	2.00	1.03
MOR0490020/N	49.00	53.00	2.00	0.42	MOR0970020/N	97.00	101.00	2.00	1.03
MOR0500020/N	50.00	54.00	2.00	0.42	MOR0980020/N	98.00	102.00	2.00	1.03
MOR0510020/N	51.00	55.00	2.00	0.42	MOR0990020/N	99.00	103.00	2.00	1.03
MOR0520020/N	52.00	56.00	2.00	0.46	MOR1000020/N	100.00	104.00	2.00	1.03
MOR0530020/N	53.00	57.00	2.00	0.68	MOR1010020/N*	101.00	105.00	2.00	1.18
MOR0540020/N	54.00	58.00	2.00	0.68	MOR1020020/N	102.00	106.00	2.00	1.18
MOR0550020/N	55.00	59.00	2.00	0.68	MOR1030020/N*	103.00	107.00	2.00	1.18
MOR0560020/N	56.00	60.00	2.00	0.46	MOR1050020/N	105.00	109.00	2.00	1.18

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1060020/N*	106.00	110.00	2.00	1.18
MOR1090020/N*	109.00	113.00	2.00	1.18
MOR1100020/N	110.00	114.00	2.00	1.51
MOR1120020/N*	112.00	116.00	2.00	1.51
MOR1145020/N*	114.50	118.50	2.00	1.51
MOR1150020/N*	115.00	119.00	2.00	1.51
MOR1220020/N*	122.00	126.00	2.00	1.51
MOR1250020/N	125.00	129.00	2.00	1.51
MOR1280020/N	128.00	132.00	2.00	1.51
MOR1300020/N*	130.00	134.00	2.00	1.81
MOR1350020/N	135.00	139.00	2.00	1.81
MOR1400020/N	140.00	144.00	2.00	1.81
MOR1480020/N*	148.00	152.00	2.00	1.81
MOR1650020/N*	165.00	169.00	2.00	2.10
MOR1700020/N	170.00	174.00	2.00	2.10
MOR1820020/N*	182.00	186.00	2.00	2.10
MOR2000020/N	200.00	204.00	2.00	2.96
MOR2200020/N*	220.00	224.00	2.00	4.82
MOR0060022/N*	6.00	10.40	2.20	0.08
MOR0075022/N	7.50	11.90	2.20	0.17
MOR0180022/N	18.00	22.40	2.20	0.12
MOR0033024/N	3.30	8.10	2.40	0.09
MOR0036024/N*	3.60	8.40	2.40	0.09
MOR0043024/N*	4.30	9.10	2.40	0.10
MOR0046024/N*	4.60	9.40	2.40	0.10
MOR0053024/N	5.30	10.10	2.40	0.10
MOR0055024/N*	5.50	10.30	2.40	0.10
MOR0056024/N*	5.60	10.40	2.40	0.10
MOR0063024/N	6.30	11.10	2.40	0.10
MOR0066024/N*	6.60	11.40	2.40	0.10
MOR0073024/N	7.30	12.10	2.40	0.10
MOR0075024/N*	7.50	12.30	2.40	0.10
MOR0076024/N	7.60	12.40	2.40	0.10
MOR0083024/N	8.30	13.10	2.40	0.10
MOR0086024/N	8.60	13.40	2.40	0.11
MOR0093024/N	9.30	14.10	2.40	0.11
MOR0098024/N	9.80	14.60	2.40	0.11
MOR0103024/N	10.30	15.10	2.40	0.11
MOR0105024/N*	10.50	15.30	2.40	0.11
MOR0106024/N*	10.60	15.40	2.40	0.11
MOR0108024/N	10.80	15.60	2.40	0.11
MOR0110024/N*	11.00	15.80	2.40	0.11
MOR0113024/N	11.30	16.10	2.40	0.11
MOR0115024/N	11.50	16.30	2.40	0.11
MOR0116024/N*	11.60	16.40	2.40	0.11
MOR0118024/N	11.80	16.60	2.40	0.11
MOR0123024/N	12.30	17.10	2.40	0.13
MOR0126024/N*	12.60	17.40	2.40	0.13

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0130024/N*	13.00	17.80	2.40	0.13
MOR0133024/N	13.30	18.10	2.40	0.14
MOR0135024/N*	13.50	18.30	2.40	0.14
MOR0136024/N*	13.60	18.40	2.40	0.14
MOR0138024/N	13.80	18.60	2.40	0.14
MOR0143024/N*	14.30	19.10	2.40	0.14
MOR0145024/N*	14.50	19.30	2.40	0.14
MOR0146024/N*	14.60	19.40	2.40	0.14
MOR0148024/N*	14.80	19.60	2.40	0.14
MOR0153024/N	15.30	20.10	2.40	0.16
MOR0155024/N	15.50	20.30	2.40	0.16
MOR0156024/N*	15.60	20.40	2.40	0.16
MOR0158024/N	15.80	20.60	2.40	0.16
MOR0163024/N	16.30	21.10	2.40	0.16
MOR0166024/N*	16.60	21.40	2.40	0.16
MOR0173024/N	17.30	22.10	2.40	0.16
MOR0175024/N*	17.50	22.30	2.40	0.16
MOR0176024/N*	17.60	22.40	2.40	0.16
MOR0178024/N	17.80	22.60	2.40	0.16
MOR0183024/N*	18.30	23.10	2.40	0.16
MOR0186024/N*	18.60	23.40	2.40	0.16
MOR0193024/N*	19.30	24.10	2.40	0.16
MOR0196024/N*	19.60	24.40	2.40	0.16
MOR0198024/N	19.80	24.60	2.40	0.16
MOR0203024/N	20.50	25.30	2.40	0.18
MOR0205024/N	20.50	25.30	2.40	0.18
MOR0208024/N	20.80	25.60	2.40	0.18
MOR0213024/N	21.30	26.10	2.40	0.18
MOR0215024/N*	21.50	26.30	2.40	0.18
MOR0216024/N*	21.60	26.40	2.40	0.18
MOR0218024/N	21.80	26.60	2.40	0.18
MOR0223024/N	22.30	27.10	2.40	0.18
MOR0233024/N	23.30	28.10	2.40	0.18
MOR0235024/N*	23.50	28.30	2.40	0.18
MOR0243024/N*	24.30	29.10	2.40	0.18
MOR0244024/N*	24.40	29.20	2.40	0.18
MOR0245024/N*	24.50	29.30	2.40	0.18
MOR0246024/N	24.60	29.40	2.40	0.18
MOR0253024/N	25.00	29.80	2.40	0.18
MOR0263024/N*	26.30	31.10	2.40	0.18
MOR0273024/N*	27.30	32.10	2.40	0.18
MOR0275024/N*	27.50	32.30	2.40	0.18
MOR0276024/N*	27.60	32.40	2.40	0.18
MOR0293024/N*	29.30	34.10	2.40	0.18
MOR0296024/N*	29.60	34.40	2.40	0.18
MOR0303024/N	30.30	35.10	2.40	0.18
MOR0313024/N*	31.30	36.10	2.40	0.18
MOR0316024/N*	31.60	36.40	2.40	0.18

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0333024/N	33.30	38.10	2.40	0.18	MOR0180025/N	18.00	23.00	2.50	0.16
MOR0346024/N	34.60	39.40	2.40	0.18	MOR0185025/N*	18.50	23.50	2.50	0.16
MOR0376024/N*	37.60	42.40	2.40	0.19	MOR0190025/N	19.00	24.00	2.50	0.16
MOR0396024/N*	39.60	44.40	2.40	0.19	MOR0195025/N*	19.50	24.50	2.50	0.16
MOR0413024/N*	41.30	46.10	2.40	0.19	MOR0200025/N	20.00	25.00	2.50	0.18
MOR0416024/N*	41.60	46.40	2.40	0.19	MOR0205025/N*	20.50	25.50	2.50	0.18
MOR0446024/N*	44.60	49.40	2.40	0.19	MOR0210025/N	21.00	26.00	2.50	0.20
MOR0476024/N	47.60	52.40	2.40	0.27	MOR0215025/N*	21.50	26.50	2.50	0.20
MOR0496024/N*	49.60	54.40	2.40	0.29	MOR0220025/N	22.00	27.00	2.50	0.20
MOR0516024/N*	51.60	56.40	2.40	0.29	MOR0225025/N	22.50	27.50	2.50	0.20
MOR0546024/N*	54.60	59.40	2.40	0.30	MOR0230025/N	23.00	28.00	2.50	0.20
MOR0576024/N*	57.60	62.40	2.40	0.30	MOR0235025/N*	23.50	28.50	2.50	0.20
MOR0593024/N*	59.30	64.10	2.40	0.31	MOR0240025/N	24.00	29.00	2.50	0.20
MOR0596024/N	59.60	64.40	2.40	0.33	MOR0245025/N	24.50	29.50	2.50	0.20
MOR0616024/N	61.60	66.40	2.40	0.35	MOR0250025/N	25.00	30.00	2.50	0.20
MOR0646024/N	64.60	69.40	2.40	0.35	MOR0255025/N*	25.50	30.50	2.50	0.20
MOR0676024/N*	67.60	72.40	2.40	0.38	MOR0260025/N	26.00	31.00	2.50	0.24
MOR0696024/N*	69.60	74.40	2.40	0.39	MOR0265025/N*	26.50	31.50	2.50	0.24
MOR0040025/N	4.00	9.00	2.50	0.09	MOR0270025/N	27.00	32.00	2.50	0.24
MOR0046025/N*	4.60	9.60	2.50	0.09	MOR0275025/N*	27.50	32.50	2.50	0.24
MOR0050025/N	5.00	10.00	2.50	0.09	MOR0280025/N	28.00	33.00	2.50	0.24
MOR0055025/N	5.50	10.50	2.50	0.09	MOR0285025/N*	28.50	33.50	2.50	0.24
MOR0060025/N	6.00	11.00	2.50	0.09	MOR0290025/N	29.00	34.00	2.50	0.24
MOR0065025/N*	6.50	11.50	2.50	0.09	MOR0291025/N*	29.10	34.10	2.50	0.24
MOR0070025/N	7.00	12.00	2.50	0.09	MOR0295025/N*	29.50	34.50	2.50	0.24
MOR0075025/N*	7.50	12.50	2.50	0.09	MOR0300025/N	30.00	35.00	2.50	0.24
MOR0080025/N	8.00	13.00	2.50	0.09	MOR0305025/N*	30.50	35.50	2.50	0.24
MOR0085025/N	8.50	13.50	2.50	0.09	MOR0310025/N	31.00	36.00	2.50	0.29
MOR0090025/N	9.00	14.00	2.50	0.09	MOR0315025/N*	31.50	36.50	2.50	0.29
MOR0100025/N	10.00	15.00	2.50	0.11	MOR0320025/N	32.00	37.00	2.50	0.29
MOR0105025/N*	10.50	15.50	2.50	0.11	MOR0325025/N*	32.50	37.50	2.50	0.29
MOR0106025/N*	10.60	15.60	2.50	0.11	MOR0330025/N	33.00	38.00	2.50	0.29
MOR0110025/N	11.00	16.00	2.50	0.11	MOR0335025/N*	33.50	38.50	2.50	0.29
MOR0115025/N	11.50	16.50	2.50	0.11	MOR0340025/N	34.00	39.00	2.50	0.30
MOR0120025/N	12.00	17.00	2.50	0.11	MOR0345025/N*	34.50	39.50	2.50	0.30
MOR0125025/N*	12.50	17.50	2.50	0.11	MOR0350025/N	35.00	40.00	2.50	0.30
MOR0130025/N	13.00	18.00	2.50	0.13	MOR0355025/N*	35.50	40.50	2.50	0.30
MOR0135025/N	13.50	18.50	2.50	0.13	MOR0360025/N	36.00	41.00	2.50	0.33
MOR0136025/N*	13.60	18.60	2.50	0.13	MOR0365025/N*	36.50	41.50	2.50	0.33
MOR0140025/N	14.00	19.00	2.50	0.13	MOR0370025/N	37.00	42.00	2.50	0.33
MOR0145025/N*	14.50	19.50	2.50	0.13	MOR0375025/N*	37.50	42.50	2.50	0.33
MOR0150025/N	15.00	20.00	2.50	0.13	MOR0380025/N	38.00	43.00	2.50	0.33
MOR0155025/N	15.50	20.50	2.50	0.13	MOR0385025/N*	38.50	43.50	2.50	0.33
MOR0160025/N	16.00	21.00	2.50	0.16	MOR0390025/N	39.00	44.00	2.50	0.33
MOR0165025/N*	16.50	21.50	2.50	0.16	MOR0395025/N*	39.50	44.50	2.50	0.33
MOR0170025/N	17.00	22.00	2.50	0.16	MOR0400025/N	40.00	45.00	2.50	0.33
MOR0175025/N	17.50	22.50	2.50	0.16	MOR0410025/N	41.00	46.00	2.50	0.37
MOR0177025/N*	17.70	22.70	2.50	0.16	MOR0420025/N	42.00	47.00	2.50	0.37

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0430025/N	43.00	48.00	2.50	0.37
MOR0440025/N	44.00	49.00	2.50	0.37
MOR0450025/N	45.00	50.00	2.50	0.37
MOR0460025/N*	46.00	51.00	2.50	0.42
MOR0470025/N	47.00	52.00	2.50	0.42
MOR0480025/N	48.00	53.00	2.50	0.42
MOR0490025/N	49.00	54.00	2.50	0.43
MOR0500025/N	50.00	55.00	2.50	0.43
MOR0510025/N	51.00	56.00	2.50	0.46
MOR0520025/N	52.00	57.00	2.50	0.46
MOR0530025/N	53.00	58.00	2.50	0.46
MOR0540025/N	54.00	59.00	2.50	0.46
MOR0550025/N	55.00	60.00	2.50	0.46
MOR0560025/N	56.00	61.00	2.50	0.46
MOR0570025/N	57.00	62.00	2.50	0.46
MOR0580025/N	58.00	63.00	2.50	0.49
MOR0590025/N	59.00	64.00	2.50	0.94
MOR0600025/N	60.00	65.00	2.50	0.49
MOR0610025/N	61.00	66.00	2.50	0.61
MOR0620025/N	62.00	67.00	2.50	0.61
MOR0630025/N	63.00	68.00	2.50	0.61
MOR0640025/N	64.00	69.00	2.50	0.61
MOR0650025/N	65.00	70.00	2.50	0.61
MOR0660025/N	66.00	71.00	2.50	0.66
MOR0670025/N	67.00	72.00	2.50	0.66
MOR0680025/N	68.00	73.00	2.50	0.66
MOR0690025/N	69.00	74.00	2.50	0.96
MOR0700025/N	70.00	75.00	2.50	0.66
MOR0710025/N	71.00	76.00	2.50	0.66
MOR0720025/N	72.00	77.00	2.50	0.66
MOR0730025/N	73.00	78.00	2.50	1.09
MOR0740025/N	74.00	79.00	2.50	0.72
MOR0750025/N	75.00	80.00	2.50	0.72
MOR0760025/N	76.00	81.00	2.50	0.76
MOR0770025/N*	77.00	82.00	2.50	0.76
MOR0780025/N	78.00	83.00	2.50	0.76
MOR0790025/N	79.00	84.00	2.50	0.76
MOR0800025/N	80.00	85.00	2.50	0.76
MOR0810025/N	81.00	86.00	2.50	0.81
MOR0820025/N	82.00	87.00	2.50	0.81
MOR0830025/N	83.00	88.00	2.50	0.81
MOR0840025/N	84.00	89.00	2.50	0.81
MOR0850025/N	85.00	90.00	2.50	0.81
MOR0860025/N	86.00	91.00	2.50	0.86
MOR0870025/N	87.00	92.00	2.50	0.86
MOR0880025/N	88.00	93.00	2.50	0.86
MOR0890025/N	89.00	94.00	2.50	0.86
MOR0900025/N	90.00	95.00	2.50	0.86

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0910025/N	91.00	96.00	2.50	1.03
MOR0920025/N	92.00	97.00	2.50	1.03
MOR0930025/N*	93.00	98.00	2.50	1.03
MOR0940025/N	94.00	99.00	2.50	1.03
MOR0950025/N	95.00	100.00	2.50	1.03
MOR0960025/N	96.00	101.00	2.50	1.03
MOR0970025/N	97.00	102.00	2.50	1.03
MOR0980025/N*	98.00	103.00	2.50	1.03
MOR0990025/N	99.00	104.00	2.50	1.03
MOR1000025/N	100.00	105.00	2.50	1.03
MOR1010025/N*	101.00	106.00	2.50	1.12
MOR1020025/N*	102.00	107.00	2.50	1.12
MOR1030025/N	103.00	108.00	2.50	1.70
MOR1040025/N*	104.00	109.00	2.50	1.12
MOR1050025/N	105.00	110.00	2.50	1.12
MOR1060025/N*	106.00	111.00	2.50	1.12
MOR1070025/N*	107.00	112.00	2.50	1.12
MOR1080025/N*	108.00	113.00	2.50	1.12
MOR1090025/N*	109.00	114.00	2.50	1.12
MOR1100025/N	110.00	115.00	2.50	1.12
MOR1110025/N*	111.00	116.00	2.50	1.12
MOR1120025/N	112.00	117.00	2.50	1.12
MOR1130025/N*	113.00	118.00	2.50	1.12
MOR1140025/N*	114.00	119.00	2.50	1.12
MOR1142025/N*	114.20	119.20	2.50	1.15
MOR1150025/N	115.00	120.00	2.50	1.12
MOR1160025/N*	116.00	121.00	2.50	1.96
MOR1170025/N	117.00	122.00	2.50	1.12
MOR1180025/N*	118.00	123.00	2.50	1.12
MOR1190025/N*	119.00	124.00	2.50	1.12
MOR1200025/N	120.00	125.00	2.50	1.12
MOR1210025/N*	121.00	126.00	2.50	1.12
MOR1220025/N*	122.00	127.00	2.50	1.12
MOR1230025/N*	123.00	128.00	2.50	1.12
MOR1240025/N	124.00	129.00	2.50	1.12
MOR1250025/N	125.00	130.00	2.50	2.33
MOR1260025/N*	126.00	131.00	2.50	1.12
MOR1270025/N*	127.00	132.00	2.50	1.12
MOR1280025/N*	128.00	133.00	2.50	1.12
MOR1290025/N*	129.00	134.00	2.50	1.12
MOR1300025/N*	130.00	135.00	2.50	1.12
MOR1310025/N*	131.00	136.00	2.50	1.12
MOR1320025/N*	132.00	137.00	2.50	1.12
MOR1330025/N*	133.00	138.00	2.50	1.12
MOR1340025/N	134.00	139.00	2.50	4.29
MOR1350025/N*	135.00	140.00	2.50	1.12
MOR1360025/N*	136.00	141.00	2.50	1.12
MOR1370025/N*	137.00	142.00	2.50	1.12

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR1380025/N*	138.00	143.00	2.50	1.12	MOR0355026/N*	35.50	40.70	2.60	0.37
MOR1390025/N*	139.00	144.00	2.50	1.12	MOR0365026/N*	36.50	41.70	2.60	0.37
MOR1400025/N	140.00	145.00	2.50	1.12	MOR0375026/N*	37.50	42.70	2.60	0.41
MOR1410025/N*	141.00	146.00	2.50	1.61	MOR0387026/N*	38.70	43.90	2.60	0.41
MOR1420025/N*	142.00	147.00	2.50	1.75	MOR0743026/N*	74.30	79.50	2.60	O/R
MOR1430025/N*	143.00	148.00	2.50	1.90	MOR0775026/N*	77.50	82.70	2.60	O/R
MOR1440025/N*	144.00	149.00	2.50	2.29	MOR0806026/N*	80.60	85.80	2.60	O/R
MOR1450025/N	145.00	150.00	2.50	2.59	MOR0838026/N*	83.80	89.00	2.60	O/R
MOR1460025/N	146.00	151.00	2.50	2.89	MOR1203026/N*	120.30	125.50	2.60	O/R
MOR1470025/N	147.00	152.00	2.50	3.28	MOR0089027/N*	8.90	14.30	2.70	O/R
MOR1480025/N	148.00	153.00	2.50	3.52	MOR0105027/N	10.50	15.90	2.70	O/R
MOR1490025/N*	149.00	154.00	2.50	3.77	MOR0121027/N	12.10	17.50	2.70	O/R
MOR1500025/N	150.00	155.00	2.50	3.81	MOR0136027/N	13.60	19.00	2.70	O/R
MOR1560025/N*	156.00	161.00	2.50	O/R	MOR0151027/N*	15.10	20.50	2.70	O/R
MOR1650025/N	165.00	170.00	2.50	2.10	MOR0155027/N*	15.50	20.90	2.70	O/R
MOR1670025/N	167.00	172.00	2.50	7.16	MOR0184027/N*	18.40	23.80	2.70	O/R
MOR1750025/N*	175.00	180.00	2.50	O/R	MOR0273027/N*	27.30	32.70	2.70	O/R
MOR1900025/N*	190.00	195.00	2.50	O/R	MOR0170029/N*	17.12	22.86	2.87	0.81
MOR1950025/N	195.00	200.00	2.50	O/R	MOR0030030/N*	3.00	9.00	3.00	0.09
MOR2600025/N*	260.00	265.00	2.50	O/R	MOR0035030/N*	3.50	9.50	3.00	0.09
MOR0099026/N	9.90	15.10	2.60	0.16	MOR0040030/N	4.00	10.00	3.00	0.09
MOR0119026/N	11.90	17.10	2.60	0.18	MOR0045030/N*	4.50	10.50	3.00	0.09
MOR0127026/N*	12.70	17.90	2.60	0.23	MOR0050030/N	5.00	11.00	3.00	0.09
MOR0131026/N	13.10	18.30	2.60	0.23	MOR0055030/N*	5.50	11.50	3.00	0.09
MOR0140026/N*	14.00	19.20	2.60	0.24	MOR0060030/N	6.00	12.00	3.00	0.09
MOR0150026/N	15.00	20.20	2.60	0.24	MOR0065030/N	6.50	12.50	3.00	0.09
MOR0158026/N	15.80	21.00	2.60	0.24	MOR0070030/N	7.00	13.00	3.00	0.10
MOR0160026/N*	16.00	21.20	2.60	0.24	MOR0075030/N*	7.50	13.50	3.00	0.10
MOR0174026/N*	17.40	22.60	2.60	0.24	MOR0080030/N	8.00	14.00	3.00	0.10
MOR0178026/N	17.80	23.00	2.60	0.24	MOR0085030/N*	8.50	14.50	3.00	0.10
MOR0180026/N*	18.00	23.20	2.60	0.24	MOR0090030/N	9.00	15.00	3.00	0.11
MOR0190026/N*	19.00	24.20	2.60	0.24	MOR0100030/N	10.00	16.00	3.00	0.13
MOR0200026/N	20.00	25.20	2.60	0.29	MOR0105030/N*	10.50	16.50	3.00	0.13
MOR0206026/N*	20.60	25.80	2.60	0.29	MOR0110030/N	11.00	17.00	3.00	0.13
MOR0212026/N*	21.20	26.40	2.60	0.29	MOR0115030/N	11.50	17.50	3.00	0.13
MOR0222026/N*	22.20	27.40	2.60	0.29	MOR0120030/N	12.00	18.00	3.00	0.13
MOR0224026/N*	22.40	27.60	2.60	0.29	MOR0125030/N*	12.50	18.50	3.00	0.13
MOR0236026/N*	23.60	28.80	2.60	0.29	MOR0130030/N	13.00	19.00	3.00	0.14
MOR0238026/N*	23.80	29.00	2.60	0.29	MOR0135030/N*	13.50	19.50	3.00	0.14
MOR0250026/N*	25.00	30.20	2.60	0.31	MOR0140030/N	14.00	20.00	3.00	0.15
MOR0258026/N*	25.80	31.00	2.60	0.31	MOR0145030/N	14.50	20.50	3.00	0.15
MOR0265026/N*	26.50	31.70	2.60	0.31	MOR0150030/N	15.00	21.00	3.00	0.15
MOR0280026/N*	28.00	33.20	2.60	0.31	MOR0155030/N*	15.50	21.50	3.00	0.15
MOR0300026/N*	30.00	35.20	2.60	0.31	MOR0160030/N	16.00	22.00	3.00	0.18
MOR0315026/N*	31.50	36.70	2.60	0.37	MOR0165030/N*	16.50	22.50	3.00	0.18
MOR0325026/N*	32.50	37.70	2.60	0.37	MOR0170030/N	17.00	23.00	3.00	0.18
MOR0335026/N*	33.50	38.70	2.60	0.37	MOR0175030/N*	17.50	23.50	3.00	0.18
MOR0345026/N*	34.50	39.70	2.60	0.37	MOR0180030/N	18.00	24.00	3.00	0.18

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0182030/N*	18.20	24.20	3.00	0.18
MOR0185030/N	18.50	24.50	3.00	0.18
MOR0190030/N	19.00	25.00	3.00	0.18
MOR0192030/N	19.20	25.20	3.00	0.18
MOR0195030/N	19.50	25.50	3.00	0.18
MOR0200030/N	20.00	26.00	3.00	0.22
MOR0202030/N*	20.20	26.20	3.00	0.22
MOR0205030/N*	20.50	26.50	3.00	0.22
MOR0210030/N	21.00	27.00	3.00	0.22
MOR0215030/N*	21.50	27.50	3.00	0.22
MOR0220030/N	22.00	28.00	3.00	0.22
MOR0222030/N	22.20	28.20	3.00	0.22
MOR0225030/N*	22.50	28.50	3.00	0.22
MOR0230030/N	23.00	29.00	3.00	0.22
MOR0235030/N*	23.50	29.50	3.00	0.22
MOR0240030/N	24.00	30.00	3.00	0.22
MOR0242030/N	24.20	30.20	3.00	0.22
MOR0245030/N*	24.50	30.50	3.00	0.22
MOR0246030/N*	24.60	30.60	3.00	0.22
MOR0250030/N	25.00	31.00	3.00	0.22
MOR0255030/N*	25.50	31.50	3.00	0.25
MOR0260030/N	26.00	32.00	3.00	0.25
MOR0262030/N	26.20	32.20	3.00	0.25
MOR0265030/N	26.50	32.50	3.00	0.25
MOR0270030/N	27.00	33.00	3.00	0.25
MOR0275030/N*	27.50	33.50	3.00	0.25
MOR0280030/N	28.00	34.00	3.00	0.25
MOR0285030/N*	28.50	34.50	3.00	0.25
MOR0290030/N	29.00	35.00	3.00	0.25
MOR0292030/N*	29.20	35.20	3.00	0.25
MOR0295030/N*	29.50	35.50	3.00	0.25
MOR0300030/N	30.00	36.00	3.00	0.25
MOR0302030/N	30.20	36.20	3.00	0.25
MOR0305030/N*	30.50	36.50	3.00	0.25
MOR0310030/N	31.00	37.00	3.00	0.32
MOR0312030/N*	31.20	37.20	3.00	0.32
MOR0315030/N*	31.50	37.50	3.00	0.32
MOR0320030/N	32.00	38.00	3.00	0.32
MOR0322030/N*	32.20	38.20	3.00	0.32
MOR0325030/N*	32.50	38.50	3.00	0.32
MOR0330030/N	33.00	39.00	3.00	0.32
MOR0335030/N*	33.50	39.50	3.00	0.32
MOR0340030/N	34.00	40.00	3.00	0.32
MOR0342030/N*	34.20	40.20	3.00	0.32
MOR0345030/N*	34.50	40.50	3.00	0.32
MOR0350030/N	35.00	41.00	3.00	0.32
MOR0352030/N*	35.20	41.20	3.00	0.32
MOR0355030/N*	35.50	41.50	3.00	0.32

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0360030/N	36.00	42.00	3.00	0.35
MOR0362030/N*	36.20	42.20	3.00	0.35
MOR0365030/N*	36.50	42.50	3.00	0.35
MOR0370030/N	37.00	43.00	3.00	0.35
MOR0372030/N*	37.20	43.20	3.00	0.35
MOR0375030/N*	37.50	43.50	3.00	0.35
MOR0380030/N	38.00	44.00	3.00	0.35
MOR0385030/N*	38.50	44.50	3.00	0.41
MOR0390030/N	39.00	45.00	3.00	0.41
MOR0392030/N	39.20	45.20	3.00	0.41
MOR0395030/N*	39.50	45.50	3.00	0.41
MOR0400030/N	40.00	46.00	3.00	0.41
MOR0410030/N	41.00	47.00	3.00	0.41
MOR0415030/N*	41.50	47.50	3.00	0.41
MOR0420030/N	42.00	48.00	3.00	0.41
MOR0422030/N*	42.20	48.20	3.00	0.41
MOR0425030/N*	42.50	48.50	3.00	0.41
MOR0430030/N	43.00	49.00	3.00	0.41
MOR0440030/N	44.00	50.00	3.00	0.41
MOR0442030/N	44.20	50.20	3.00	0.41
MOR0445030/N*	44.50	50.50	3.00	0.41
MOR0450030/N	45.00	51.00	3.00	0.41
MOR0460030/N	46.00	52.00	3.00	0.46
MOR0462030/N*	46.20	52.20	3.00	0.46
MOR0470030/N	47.00	53.00	3.00	0.46
MOR0480030/N	48.00	54.00	3.00	0.46
MOR0490030/N	49.00	55.00	3.00	0.46
MOR0495030/N*	49.50	55.50	3.00	0.46
MOR0500030/N	50.00	56.00	3.00	0.46
MOR0505030/N	50.50	56.50	3.00	0.46
MOR0510030/N	51.00	57.00	3.00	0.46
MOR0520030/N	52.00	58.00	3.00	0.48
MOR0530030/N	53.00	59.00	3.00	0.52
MOR0540030/N	54.00	60.00	3.00	0.52
MOR0545030/N	54.50	60.50	3.00	0.52
MOR0550030/N	55.00	61.00	3.00	0.52
MOR0560030/N	56.00	62.00	3.00	0.52
MOR0570030/N	57.00	63.00	3.00	0.94
MOR0580030/N	58.00	64.00	3.00	0.52
MOR0590030/N	59.00	65.00	3.00	0.52
MOR0595030/N	59.50	65.50	3.00	0.52
MOR0600030/N	60.00	66.00	3.00	0.52
MOR0610030/N	61.00	67.00	3.00	0.62
MOR0620030/N	62.00	68.00	3.00	0.62
MOR0630030/N	63.00	69.00	3.00	0.62
MOR0640030/N	64.00	70.00	3.00	0.62
MOR0645030/N	64.50	70.50	3.00	0.62
MOR0650030/N	65.00	71.00	3.00	0.62

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0660030/N	66.00	72.00	3.00	0.68	MOR1050030/N	105.00	111.00	3.00	1.05
MOR0670030/N	67.00	73.00	3.00	0.68	MOR1060030/N	106.00	112.00	3.00	1.05
MOR0680030/N	68.00	74.00	3.00	0.98	MOR1070030/N	107.00	113.00	3.00	1.05
MOR0690030/N	69.00	75.00	3.00	0.68	MOR1080030/N	108.00	114.00	3.00	1.05
MOR0695030/N	69.50	75.50	3.00	0.68	MOR1090030/N	109.00	115.00	3.00	1.05
MOR0700030/N	70.00	76.00	3.00	0.68	MOR1095030/N	109.50	115.50	3.00	1.05
MOR0710030/N	71.00	77.00	3.00	0.76	MOR1100030/N	110.00	116.00	3.00	1.05
MOR0720030/N	72.00	78.00	3.00	0.76	MOR1110030/N	111.00	117.00	3.00	1.17
MOR0730030/N	73.00	79.00	3.00	0.76	MOR1120030/N	112.00	118.00	3.00	1.17
MOR0740030/N	74.00	80.00	3.00	0.76	MOR1130030/N	113.00	119.00	3.00	1.17
MOR0742030/N*	74.20	80.20	3.00	0.76	MOR1140030/N	114.00	120.00	3.00	1.87
MOR0745030/N	74.50	80.50	3.00	0.76	MOR1145030/N	114.50	120.50	3.00	1.17
MOR0750030/N	75.00	81.00	3.00	0.76	MOR1150030/N	115.00	121.00	3.00	1.17
MOR0760030/N	76.00	82.00	3.00	0.81	MOR1160030/N	116.00	122.00	3.00	1.17
MOR0770030/N	77.00	83.00	3.00	1.24	MOR1170030/N	117.00	123.00	3.00	1.17
MOR0780030/N	78.00	84.00	3.00	0.81	MOR1180030/N	118.00	124.00	3.00	1.17
MOR0790030/N	79.00	85.00	3.00	0.81	MOR1190030/N	119.00	125.00	3.00	1.17
MOR0795030/N	79.50	85.50	3.00	0.81	MOR1195030/N	119.50	125.50	3.00	1.17
MOR0800030/N	80.00	86.00	3.00	0.81	MOR1200030/N	120.00	126.00	3.00	1.17
MOR0810030/N	81.00	87.00	3.00	0.86	MOR1210030/N*	121.00	127.00	3.00	1.31
MOR0820030/N	82.00	88.00	3.00	0.86	MOR1220030/N	122.00	128.00	3.00	1.31
MOR0830030/N	83.00	89.00	3.00	0.86	MOR1230030/N	123.00	129.00	3.00	1.31
MOR0840030/N	84.00	90.00	3.00	0.86	MOR1240030/N	124.00	130.00	3.00	1.31
MOR0845030/N	84.50	90.50	3.00	0.86	MOR1245030/N	124.50	130.50	3.00	1.31
MOR0850030/N	85.00	91.00	3.00	0.86	MOR1250030/N	125.00	131.00	3.00	1.31
MOR0860030/N	86.00	92.00	3.00	0.91	MOR1260030/N	126.00	132.00	3.00	1.31
MOR0870030/N	87.00	93.00	3.00	0.91	MOR1270030/N	127.00	133.00	3.00	1.31
MOR0880030/N	88.00	94.00	3.00	0.91	MOR1280030/N	128.00	134.00	3.00	1.31
MOR0890030/N	89.00	95.00	3.00	0.91	MOR1290030/N	129.00	135.00	3.00	1.31
MOR0895030/N	89.50	95.50	3.00	0.91	MOR1295030/N*	129.50	135.50	3.00	1.31
MOR0900030/N	90.00	96.00	3.00	0.91	MOR1300030/N	130.00	136.00	3.00	1.31
MOR0910030/N	91.00	97.00	3.00	1.03	MOR1310030/N	131.00	137.00	3.00	1.31
MOR0920030/N	92.00	98.00	3.00	1.03	MOR1320030/N	132.00	138.00	3.00	1.31
MOR0930030/N	93.00	99.00	3.00	1.03	MOR1330030/N*	133.00	139.00	3.00	1.52
MOR0940030/N	94.00	100.00	3.00	1.03	MOR1340030/N	134.00	140.00	3.00	1.52
MOR0945030/N	94.50	100.50	3.00	1.03	MOR1345030/N*	134.50	140.50	3.00	1.52
MOR0950030/N	95.00	101.00	3.00	2.03	MOR1350030/N	135.00	141.00	3.00	1.52
MOR0960030/N	96.00	102.00	3.00	1.03	MOR1360030/N	136.00	142.00	3.00	3.05
MOR0970030/N	97.00	103.00	3.00	1.70	MOR1370030/N	137.00	143.00	3.00	1.52
MOR0980030/N	98.00	104.00	3.00	1.03	MOR1380030/N	138.00	144.00	3.00	1.52
MOR0990030/N	99.00	105.00	3.00	1.03	MOR1390030/N	139.00	145.00	3.00	1.52
MOR0995030/N	99.50	105.50	3.00	1.03	MOR1395030/N	139.50	145.50	3.00	1.52
MOR1000030/N	100.00	106.00	3.00	1.03	MOR1400030/N	140.00	146.00	3.00	1.52
MOR1010030/N	101.00	107.00	3.00	1.04	MOR1410030/N*	141.00	147.00	3.00	1.52
MOR1020030/N	102.00	108.00	3.00	1.04	MOR1420030/N*	142.00	148.00	3.00	1.52
MOR1030030/N	103.00	109.00	3.00	1.04	MOR1430030/N	143.00	149.00	3.00	1.52
MOR1040030/N	104.00	110.00	3.00	1.04	MOR1440030/N	144.00	150.00	3.00	1.52
MOR1045030/N	104.50	110.50	3.00	1.04	MOR1445030/N	144.50	150.50	3.00	1.52

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1450030/N	145.00	151.00	3.00	1.52
MOR1460030/N*	146.00	152.00	3.00	1.52
MOR1470030/N*	147.00	153.00	3.00	1.52
MOR1480030/N	148.00	154.00	3.00	1.52
MOR1490030/N	149.00	155.00	3.00	1.52
MOR1495030/N	149.50	155.50	3.00	1.69
MOR1500030/N	150.00	156.00	3.00	1.69
MOR1510030/N*	151.00	157.00	3.00	1.94
MOR1520030/N	152.00	158.00	3.00	1.94
MOR1530030/N*	153.00	159.00	3.00	1.94
MOR1540030/N	154.00	160.00	3.00	1.94
MOR1545030/N*	154.50	160.50	3.00	1.94
MOR1550030/N	155.00	161.00	3.00	1.94
MOR1560030/N*	156.00	162.00	3.00	1.94
MOR1570030/N*	157.00	163.00	3.00	1.94
MOR1580030/N*	158.00	164.00	3.00	1.94
MOR1590030/N*	159.00	165.00	3.00	1.94
MOR1595030/N*	159.50	165.50	3.00	1.94
MOR1600030/N	160.00	166.00	3.00	1.94
MOR1610030/N*	161.00	167.00	3.00	2.13
MOR1620030/N	162.00	168.00	3.00	2.13
MOR1630030/N	163.00	169.00	3.00	2.13
MOR1640030/N	164.00	170.00	3.00	2.13
MOR1645030/N*	164.50	170.50	3.00	2.13
MOR1650030/N	165.00	171.00	3.00	2.13
MOR1660030/N*	166.00	172.00	3.00	2.13
MOR1670030/N	167.00	173.00	3.00	2.13
MOR1680030/N	168.00	174.00	3.00	2.13
MOR1690030/N*	169.00	175.00	3.00	2.13
MOR1695030/N*	169.50	175.50	3.00	2.13
MOR1700030/N	170.00	176.00	3.00	2.13
MOR1710030/N	171.00	177.00	3.00	2.66
MOR1720030/N*	172.00	178.00	3.00	2.66
MOR1730030/N*	173.00	179.00	3.00	2.66
MOR1740030/N	174.00	180.00	3.00	2.66
MOR1745030/N*	174.50	180.50	3.00	2.66
MOR1750030/N	175.00	181.00	3.00	2.66
MOR1760030/N	176.00	182.00	3.00	2.67
MOR1770030/N*	177.00	183.00	3.00	2.67
MOR1780030/N	178.00	184.00	3.00	2.67
MOR1790030/N*	179.00	185.00	3.00	2.67
MOR1795030/N*	179.50	185.50	3.00	2.67
MOR1800030/N	180.00	186.00	3.00	2.67
MOR1810030/N	181.00	187.00	3.00	2.67
MOR1820030/N*	182.00	188.00	3.00	2.67
MOR1830030/N	183.00	189.00	3.00	2.67
MOR1840030/N*	184.00	190.00	3.00	2.67
MOR1845030/N*	184.50	190.50	3.00	2.67

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1850030/N	185.00	191.00	3.00	2.67
MOR1860030/N*	186.00	192.00	3.00	2.67
MOR1870030/N*	187.00	193.00	3.00	2.67
MOR1880030/N*	188.00	194.00	3.00	2.67
MOR1890030/N*	189.00	195.00	3.00	2.67
MOR1895030/N	189.50	195.50	3.00	2.67
MOR1900030/N	190.00	196.00	3.00	2.67
MOR1910030/N*	191.00	197.00	3.00	2.67
MOR1920030/N	192.00	198.00	3.00	2.67
MOR1930030/N*	193.00	199.00	3.00	2.67
MOR1940030/N*	194.00	200.00	3.00	2.67
MOR1945030/N*	194.50	200.50	3.00	2.67
MOR1950030/N	195.00	201.00	3.00	2.67
MOR1960030/N*	196.00	202.00	3.00	2.67
MOR1970030/N*	197.00	203.00	3.00	2.67
MOR1980030/N*	198.00	204.00	3.00	2.67
MOR1990030/N*	199.00	205.00	3.00	2.67
MOR1995030/N	199.50	205.50	3.00	2.67
MOR2000030/N	200.00	206.00	3.00	2.67
MOR2010030/N*	201.00	207.00	3.00	2.67
MOR2020030/N	202.00	208.00	3.00	2.67
MOR2030030/N*	203.00	209.00	3.00	2.67
MOR2040030/N*	204.00	210.00	3.00	2.67
MOR2045030/N*	204.50	210.50	3.00	2.67
MOR2050030/N	205.00	211.00	3.00	2.67
MOR2060030/N*	206.00	212.00	3.00	2.67
MOR2070030/N*	207.00	213.00	3.00	2.67
MOR2080030/N*	208.00	214.00	3.00	2.67
MOR2090030/N*	209.00	215.00	3.00	2.67
MOR2095030/N*	209.50	215.50	3.00	2.67
MOR2100030/N	210.00	216.00	3.00	2.67
MOR2110030/N*	211.00	217.00	3.00	2.67
MOR2120030/N*	212.00	218.00	3.00	2.67
MOR2130030/N*	213.00	219.00	3.00	2.67
MOR2140030/N*	214.00	220.00	3.00	2.67
MOR2150030/N*	215.00	221.00	3.00	4.94
MOR2160030/N*	216.00	222.00	3.00	2.67
MOR2170030/N*	217.00	223.00	3.00	2.67
MOR2180030/N*	218.00	224.00	3.00	2.67
MOR2190030/N*	219.00	225.00	3.00	2.67
MOR2195030/N*	219.50	225.50	3.00	2.67
MOR2200030/N*	220.00	226.00	3.00	2.67
MOR2210030/N*	221.00	227.00	3.00	2.67
MOR2220030/N*	222.00	228.00	3.00	2.67
MOR2230030/N*	223.00	229.00	3.00	2.67
MOR2240030/N	224.00	230.00	3.00	2.67
MOR2250030/N*	225.00	231.00	3.00	2.67
MOR2260030/N*	226.00	232.00	3.00	5.83

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR2270030/N*	227.00	233.00	3.00	5.83	MOR0294031/N	29.40	35.60	3.10	0.34
MOR2280030/N	228.00	234.00	3.00	5.83	MOR0344031/N	34.40	40.60	3.10	0.45
MOR2290030/N*	229.00	235.00	3.00	5.83	MOR0394031/N	39.40	45.60	3.10	0.47
MOR2295030/N*	229.50	235.50	3.00	5.83	MOR0444031/N	44.40	50.60	3.10	0.65
MOR2300030/N*	230.00	236.00	3.00	5.83	MOR0494031/N	49.40	55.60	3.10	0.68
MOR2310030/N*	231.00	237.00	3.00	5.83	MOR0544031/N	54.40	60.60	3.10	0.71
MOR2320030/N*	232.00	238.00	3.00	5.83	MOR0594031/N	59.40	65.60	3.10	0.81
MOR2330030/N*	233.00	239.00	3.00	5.83	MOR0644031/N	64.40	70.60	3.10	0.85
MOR2340030/N*	234.00	240.00	3.00	5.83	MOR0694031/N	69.40	75.60	3.10	1.04
MOR2350030/N*	235.00	241.00	3.00	5.83	MOR0744031/N	74.40	80.60	3.10	1.18
MOR2360030/N*	236.00	242.00	3.00	5.83	MOR0745031/N*	74.50	80.70	3.10	1.23
MOR2370030/N*	237.00	243.00	3.00	5.83	MOR0794031/N	79.40	85.60	3.10	1.28
MOR2380030/N*	238.00	244.00	3.00	5.83	MOR0844031/N	84.40	90.60	3.10	1.28
MOR2390030/N*	239.00	245.00	3.00	5.83	MOR0894031/N	89.40	95.60	3.10	1.32
MOR2395030/N*	239.50	245.50	3.00	5.83	MOR0944031/N	94.40	100.60	3.10	1.33
MOR2400030/N	240.00	246.00	3.00	5.83	MOR0994031/N	99.40	105.60	3.10	1.45
MOR2410030/N*	241.00	247.00	3.00	6.10	MOR1042031/N*	104.20	110.40	3.10	1.45
MOR2420030/N*	242.00	248.00	3.00	6.10	MOR1044031/N	104.40	110.60	3.10	1.45
MOR2430030/N*	243.00	249.00	3.00	6.10	MOR1094031/N	109.40	115.60	3.10	1.63
MOR2440030/N	244.00	250.00	3.00	6.10	MOR1095031/N	109.50	115.70	3.10	1.63
MOR2450030/N*	245.00	251.00	3.00	6.10	MOR1144031/N	114.40	120.60	3.10	1.91
MOR2460030/N*	246.00	252.00	3.00	6.10	MOR1194031/N	119.40	125.60	3.10	1.89
MOR2470030/N*	247.00	253.00	3.00	6.10	MOR1244031/N	124.40	130.60	3.10	1.99
MOR2480030/N*	248.00	254.00	3.00	6.10	MOR1274031/N*	127.40	133.60	3.10	2.01
MOR2490030/N*	249.00	255.00	3.00	6.10	MOR1294031/N	129.40	135.60	3.10	2.05
MOR2495030/N*	249.50	255.50	3.00	6.10	MOR1344031/N*	134.40	140.60	3.10	2.42
MOR2500030/N	250.00	256.00	3.00	6.10	MOR1394031/N	139.40	145.60	3.10	2.44
MOR2540030/N*	254.00	260.00	3.00	O/R	MOR1444031/N	144.40	150.60	3.10	2.49
MOR2600030/N	260.00	266.00	3.00	O/R	MOR1140032/N*	114.00	120.50	3.25	1.81
MOR2710030/N*	271.00	277.00	3.00	O/R	MOR0080035/N	8.00	15.00	3.50	0.11
MOR2740030/N	274.00	280.00	3.00	6.86	MOR0090035/N*	9.00	16.00	3.50	0.18
MOR2800030/N	280.00	286.00	3.00	O/R	MOR0100035/N	10.00	17.00	3.50	0.18
MOR2850030/N*	285.00	291.00	3.00	O/R	MOR0110035/N	11.00	18.00	3.50	0.18
MOR2900030/N*	290.00	296.00	3.00	O/R	MOR0120035/N	12.00	19.00	3.50	0.18
MOR3000030/N*	300.00	306.00	3.00	9.13	MOR0130035/N*	13.00	20.00	3.50	0.18
MOR3040030/N*	304.00	310.00	3.00	O/R	MOR0140035/N*	14.00	21.00	3.50	0.18
MOR3070030/N*	307.00	313.00	3.00	O/R	MOR0150035/N*	15.00	22.00	3.50	0.18
MOR3100030/N*	310.00	316.00	3.00	15.65	MOR0160035/N	16.00	23.00	3.50	0.22
MOR3200030/N	320.00	326.00	3.00	O/R	MOR0170035/N*	17.00	24.00	3.50	0.24
MOR3250030/N*	325.00	331.00	3.00	23.65	MOR0180035/N	18.00	25.00	3.50	0.24
MOR3300030/N*	330.00	336.00	3.00	O/R	MOR0190035/N	19.00	26.00	3.50	0.24
MOR3700030/N*	370.00	376.00	3.00	O/R	MOR0200035/N	20.00	27.00	3.50	0.24
MOR3800030/N	380.00	386.00	3.00	24.05	MOR0210035/N	21.00	28.00	3.50	0.24
MOR3900030/N*	390.00	396.00	3.00	O/R	MOR0212035/N*	21.20	28.20	3.50	0.24
MOR4100030/N*	410.00	416.00	3.00	O/R	MOR0217035/N*	21.70	28.70	3.50	0.24
MOR5950030/N*	595.00	601.00	3.00	O/R	MOR0220035/N	22.00	29.00	3.50	0.24
MOR8042030/N*	804.20	810.20	3.00	O/R	MOR0221035/N*	22.10	29.10	3.50	0.24
MOR0244031/N	24.40	30.60	3.10	0.25	MOR0224035/N*	22.40	29.40	3.50	0.24

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0230035/N	23.00	30.00	3.50	0.24
MOR0236035/N*	23.60	30.60	3.50	0.24
MOR0237035/N*	23.70	30.70	3.50	0.24
MOR0240035/N	24.00	31.00	3.50	0.24
MOR0247035/N*	24.70	31.70	3.50	0.24
MOR0249035/N	24.90	31.90	3.50	0.24
MOR0250035/N	25.00	32.00	3.50	0.24
MOR0252035/N*	25.20	32.20	3.50	0.24
MOR0257035/N	25.70	32.70	3.50	0.24
MOR0258035/N*	25.80	32.80	3.50	0.24
MOR0260035/N	26.00	33.00	3.50	0.33
MOR0265035/N*	26.50	33.50	3.50	0.33
MOR0270035/N	27.00	34.00	3.50	0.33
MOR0277035/N*	27.70	34.70	3.50	0.33
MOR0280035/N	28.00	35.00	3.50	0.33
MOR0287035/N*	28.70	35.70	3.50	0.33
MOR0290035/N	29.00	36.00	3.50	0.33
MOR0292035/N	29.20	36.20	3.50	0.33
MOR0297035/N	29.70	36.70	3.50	0.33
MOR0300035/N	30.00	37.00	3.50	0.33
MOR0307035/N*	30.70	37.70	3.50	0.33
MOR0310035/N	31.00	38.00	3.50	0.38
MOR0312035/N*	31.20	38.20	3.50	0.38
MOR0315035/N*	31.50	38.50	3.50	0.38
MOR0317035/N	31.70	38.70	3.50	0.38
MOR0320035/N	32.00	39.00	3.50	0.38
MOR0325035/N*	32.50	39.50	3.50	0.38
MOR0330035/N	33.00	40.00	3.50	0.38
MOR0335035/N*	33.50	40.50	3.50	0.38
MOR0337035/N	33.70	40.70	3.50	0.38
MOR0340035/N	34.00	41.00	3.50	0.38
MOR0345035/N*	34.50	41.50	3.50	0.38
MOR0347035/N	34.70	41.70	3.50	0.38
MOR0350035/N	35.00	42.00	3.50	0.38
MOR0352035/N	35.20	42.20	3.50	0.38
MOR0355035/N*	35.50	42.50	3.50	0.38
MOR0357035/N*	35.70	42.70	3.50	0.38
MOR0360035/N	36.00	43.00	3.50	0.38
MOR0365035/N*	36.50	43.50	3.50	0.38
MOR0370035/N	37.00	44.00	3.50	0.38
MOR0375035/N*	37.50	44.50	3.50	0.38
MOR0377035/N*	37.70	44.70	3.50	0.38
MOR0380035/N	38.00	45.00	3.50	0.46
MOR0387035/N*	38.70	45.70	3.50	0.46
MOR0390035/N	39.00	46.00	3.50	0.47
MOR0396035/N*	39.60	46.60	3.50	0.47
MOR0397035/N	39.70	46.70	3.50	0.47
MOR0400035/N	40.00	47.00	3.50	0.47

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0407035/N*	40.70	47.70	3.50	0.47
MOR0410035/N	41.00	48.00	3.50	0.47
MOR0412035/N*	41.20	48.20	3.50	0.47
MOR0417035/N	41.70	48.70	3.50	0.47
MOR0420035/N	42.00	49.00	3.50	0.47
MOR0425035/N*	42.50	49.50	3.50	0.47
MOR0428035/N*	42.80	49.80	3.50	0.47
MOR0430035/N	43.00	50.00	3.50	0.54
MOR0437035/N	43.70	50.70	3.50	0.54
MOR0440035/N	44.00	51.00	3.50	0.54
MOR0444035/N*	44.40	51.40	3.50	0.54
MOR0447035/N*	44.70	51.70	3.50	0.54
MOR0450035/N	45.00	52.00	3.50	0.54
MOR0457035/N*	45.70	52.70	3.50	0.54
MOR0460035/N	46.00	53.00	3.50	0.54
MOR0462035/N*	46.20	53.20	3.50	0.54
MOR0470035/N	47.00	54.00	3.50	0.54
MOR0475035/N*	47.50	54.50	3.50	0.54
MOR0476035/N*	47.60	54.60	3.50	0.54
MOR0477035/N	47.70	54.70	3.50	0.54
MOR0480035/N	48.00	55.00	3.50	0.54
MOR0487035/N*	48.70	55.70	3.50	0.54
MOR0490035/N	49.00	56.00	3.50	0.54
MOR0492035/N	49.20	56.20	3.50	0.54
MOR0497035/N*	49.70	56.70	3.50	0.54
MOR0500035/N	50.00	57.00	3.50	0.54
MOR0508035/N*	50.80	57.80	3.50	0.54
MOR0510035/N	51.00	58.00	3.50	0.57
MOR0515035/N*	51.50	58.50	3.50	0.57
MOR0520035/N	52.00	59.00	3.50	0.57
MOR0530035/N	53.00	60.00	3.50	0.57
MOR0537035/N*	53.70	60.70	3.50	0.57
MOR0539035/N*	53.90	60.90	3.50	0.57
MOR0540035/N	54.00	61.00	3.50	0.57
MOR0545035/N	54.50	61.50	3.50	0.57
MOR0550035/N	55.00	62.00	3.50	0.57
MOR0555035/N*	55.50	62.50	3.50	0.57
MOR0560035/N	56.00	63.00	3.50	0.57
MOR0570035/N	57.00	64.00	3.50	0.63
MOR0571035/N*	57.10	64.10	3.50	0.63
MOR0580035/N	58.00	65.00	3.50	0.63
MOR0587035/N*	58.70	65.70	3.50	0.63
MOR0590035/N	59.00	66.00	3.50	0.63
MOR0600035/N	60.00	67.00	3.50	0.63
MOR0603035/N*	60.30	67.30	3.50	0.63
MOR0610035/N	61.00	68.00	3.50	0.73
MOR0615035/N*	61.50	68.50	3.50	0.73
MOR0619035/N*	61.90	68.90	3.50	0.73

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0620035/N	62.00	69.00	3.50	0.73
MOR0630035/N	63.00	70.00	3.50	0.73
MOR0635035/N*	63.50	70.50	3.50	0.73
MOR0640035/N	64.00	71.00	3.50	0.73
MOR0650035/N	65.00	72.00	3.50	0.73
MOR0651035/N*	65.10	72.10	3.50	0.73
MOR0660035/N	66.00	73.00	3.50	0.73
MOR0666035/N*	66.60	73.60	3.50	0.73
MOR0670035/N	67.00	74.00	3.50	0.73
MOR0680035/N	68.00	75.00	3.50	0.73
MOR0682035/N*	68.20	75.20	3.50	0.73
MOR0690035/N	69.00	76.00	3.50	0.73
MOR0698035/N*	69.80	76.80	3.50	0.73
MOR0700035/N	70.00	77.00	3.50	0.73
MOR0710035/N	71.00	78.00	3.50	0.73
MOR0714035/N*	71.40	78.40	3.50	0.73
MOR0720035/N	72.00	79.00	3.50	0.94
MOR0730035/N	73.00	80.00	3.50	0.94
MOR0740035/N	74.00	81.00	3.50	0.99
MOR0746035/N*	74.60	81.60	3.50	0.99
MOR0750035/N	75.00	82.00	3.50	0.99
MOR0760035/N	76.00	83.00	3.50	0.99
MOR0770035/N	77.00	84.00	3.50	0.99
MOR0775035/N*	77.50	84.50	3.50	0.99
MOR0780035/N	78.00	85.00	3.50	0.99
MOR0790035/N	79.00	86.00	3.50	0.99
MOR0800035/N	80.00	87.00	3.50	0.99
MOR0810035/N	81.00	88.00	3.50	0.99
MOR0820035/N	82.00	89.00	3.50	0.99
MOR0825035/N*	82.50	89.50	3.50	0.99
MOR0830035/N	83.00	90.00	3.50	0.99
MOR0840035/N	84.00	91.00	3.50	0.99
MOR0850035/N	85.00	92.00	3.50	0.99
MOR0860035/N	86.00	93.00	3.50	0.99
MOR0870035/N	87.00	94.00	3.50	0.99
MOR0875035/N*	87.50	94.50	3.50	0.99
MOR0880035/N	88.00	95.00	3.50	0.99
MOR0890035/N*	89.00	96.00	3.50	0.99
MOR0900035/N	90.00	97.00	3.50	0.99
MOR0910035/N	91.00	98.00	3.50	0.99
MOR0920035/N	92.00	99.00	3.50	0.99
MOR0925035/N*	92.50	99.50	3.50	0.99
MOR0930035/N	93.00	100.00	3.50	0.99
MOR0940035/N	94.00	101.00	3.50	0.99
MOR0950035/N	95.00	102.00	3.50	0.99
MOR0960035/N*	96.00	103.00	3.50	0.99
MOR0970035/N	97.00	104.00	3.50	0.99
MOR0975035/N*	97.50	104.50	3.50	0.99

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0980035/N	98.00	105.00	3.50	0.99
MOR0990035/N	99.00	106.00	3.50	0.99
MOR1000035/N	100.00	107.00	3.50	0.99
MOR1010035/N*	101.00	108.00	3.50	0.99
MOR1020035/N*	102.00	109.00	3.50	0.99
MOR1030035/N	103.00	110.00	3.50	0.99
MOR1040035/N*	104.00	111.00	3.50	0.99
MOR1050035/N	105.00	112.00	3.50	1.80
MOR1060035/N*	106.00	113.00	3.50	0.99
MOR1070035/N*	107.00	114.00	3.50	0.99
MOR1080035/N	108.00	115.00	3.50	1.87
MOR1090035/N	109.00	116.00	3.50	0.99
MOR1100035/N	110.00	117.00	3.50	0.99
MOR1110035/N*	111.00	118.00	3.50	0.99
MOR1120035/N	112.00	119.00	3.50	0.99
MOR1130035/N*	113.00	120.00	3.50	0.99
MOR1140035/N*	114.00	121.00	3.50	0.99
MOR1150035/N*	115.00	122.00	3.50	0.99
MOR1160035/N	116.00	123.00	3.50	0.99
MOR1170035/N*	117.00	124.00	3.50	0.99
MOR1180035/N	118.00	125.00	3.50	0.99
MOR1190035/N*	119.00	126.00	3.50	1.37
MOR1200035/N	120.00	127.00	3.50	1.37
MOR1202035/N*	120.20	127.20	3.50	1.36
MOR1210035/N*	121.00	128.00	3.50	1.38
MOR1220035/N	122.00	129.00	3.50	1.38
MOR1230035/N	123.00	130.00	3.50	1.38
MOR1240035/N	124.00	131.00	3.50	1.38
MOR1250035/N	125.00	132.00	3.50	1.38
MOR1260035/N*	126.00	133.00	3.50	1.38
MOR1270035/N*	127.00	134.00	3.50	1.38
MOR1280035/N*	128.00	135.00	3.50	1.38
MOR1290035/N*	129.00	136.00	3.50	1.38
MOR1300035/N*	130.00	137.00	3.50	1.38
MOR1310035/N*	131.00	138.00	3.50	1.38
MOR1320035/N	132.00	139.00	3.50	2.20
MOR1330035/N*	133.00	140.00	3.50	1.70
MOR1340035/N*	134.00	141.00	3.50	1.70
MOR1350035/N*	135.00	142.00	3.50	1.70
MOR1360035/N*	136.00	143.00	3.50	1.70
MOR1361035/N*	136.10	143.10	3.50	1.70
MOR1370035/N*	137.00	144.00	3.50	1.70
MOR1380035/N	138.00	145.00	3.50	1.70
MOR1390035/N*	139.00	146.00	3.50	1.70
MOR1400035/N	140.00	147.00	3.50	1.70
MOR1410035/N*	141.00	148.00	3.50	1.70
MOR1420035/N*	142.00	149.00	3.50	1.70
MOR1430035/N	143.00	150.00	3.50	1.70

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1440035/N*	144.00	151.00	3.50	1.70
MOR1450035/N*	145.00	152.00	3.50	1.70
MOR1460035/N*	146.00	153.00	3.50	2.27
MOR1470035/N*	147.00	154.00	3.50	2.27
MOR1480035/N*	148.00	155.00	3.50	2.27
MOR1490035/N*	149.00	156.00	3.50	2.27
MOR1500035/N*	150.00	157.00	3.50	2.27
MOR1510035/N*	151.00	158.00	3.50	2.27
MOR1520035/N*	152.00	159.00	3.50	2.27
MOR1530035/N*	153.00	160.00	3.50	2.27
MOR1540035/N*	154.00	161.00	3.50	2.27
MOR1550035/N*	155.00	162.00	3.50	2.27
MOR1560035/N*	156.00	163.00	3.50	2.27
MOR1570035/N*	157.00	164.00	3.50	2.27
MOR1580035/N*	158.00	165.00	3.50	2.27
MOR1590035/N*	159.00	166.00	3.50	2.27
MOR1600035/N*	160.00	167.00	3.50	2.27
MOR1610035/N*	161.00	168.00	3.50	2.27
MOR1620035/N	162.00	169.00	3.50	2.27
MOR1630035/N*	163.00	170.00	3.50	2.27
MOR1640035/N*	164.00	171.00	3.50	2.27
MOR1650035/N	165.00	172.00	3.50	2.27
MOR1660035/N*	166.00	173.00	3.50	2.27
MOR1670035/N*	167.00	174.00	3.50	2.27
MOR1680035/N*	168.00	175.00	3.50	2.27
MOR1690035/N*	169.00	176.00	3.50	2.27
MOR1700035/N	170.00	177.00	3.50	2.27
MOR1710035/N*	171.00	178.00	3.50	2.38
MOR1720035/N*	172.00	179.00	3.50	2.38
MOR1730035/N*	173.00	180.00	3.50	2.38
MOR1740035/N*	174.00	181.00	3.50	2.38
MOR1750035/N*	175.00	182.00	3.50	2.38
MOR1760035/N*	176.00	183.00	3.50	2.69
MOR1770035/N	177.00	184.00	3.50	2.69
MOR1780035/N*	178.00	185.00	3.50	2.69
MOR1790035/N*	179.00	186.00	3.50	2.69
MOR1800035/N*	180.00	187.00	3.50	2.69
MOR1810035/N*	181.00	188.00	3.50	3.22
MOR1820035/N*	182.00	189.00	3.50	3.22
MOR1830035/N*	183.00	190.00	3.50	3.22
MOR1840035/N*	184.00	191.00	3.50	3.22
MOR1850035/N*	185.00	192.00	3.50	3.22
MOR1860035/N*	186.00	193.00	3.50	3.22
MOR1870035/N*	187.00	194.00	3.50	3.22
MOR1880035/N*	188.00	195.00	3.50	3.22
MOR1890035/N*	189.00	196.00	3.50	3.22
MOR1900035/N*	190.00	197.00	3.50	3.22
MOR1910035/N*	191.00	198.00	3.50	3.22

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1920035/N*	192.00	199.00	3.50	3.22
MOR1930035/N*	193.00	200.00	3.50	3.22
MOR1940035/N*	194.00	201.00	3.50	3.22
MOR1950035/N	195.00	202.00	3.50	3.22
MOR1960035/N*	196.00	203.00	3.50	3.22
MOR1970035/N*	197.00	204.00	3.50	3.22
MOR1980035/N*	198.00	205.00	3.50	3.22
MOR1990035/N*	199.00	206.00	3.50	3.22
MOR2000035/N*	200.00	207.00	3.50	3.22
MOR2010035/N*	201.00	208.00	3.50	3.31
MOR2020035/N*	202.00	209.00	3.50	3.31
MOR2030035/N*	203.00	210.00	3.50	4.25
MOR2040035/N*	204.00	211.00	3.50	4.25
MOR2050035/N*	205.00	212.00	3.50	4.25
MOR2060035/N*	206.00	213.00	3.50	4.25
MOR2070035/N*	207.00	214.00	3.50	4.25
MOR2080035/N*	208.00	215.00	3.50	4.25
MOR2090035/N*	209.00	216.00	3.50	4.25
MOR2100035/N*	210.00	217.00	3.50	4.25
MOR2110035/N*	211.00	218.00	3.50	5.12
MOR2120035/N*	212.00	219.00	3.50	5.45
MOR2130035/N*	213.00	220.00	3.50	6.15
MOR2140035/N*	214.00	221.00	3.50	6.45
MOR2150035/N*	215.00	222.00	3.50	6.74
MOR2160035/N*	216.00	223.00	3.50	7.26
MOR2170035/N*	217.00	224.00	3.50	7.44
MOR2180035/N*	218.00	225.00	3.50	7.73
MOR2190035/N*	219.00	226.00	3.50	8.68
MOR2200035/N*	220.00	227.00	3.50	9.13
MOR2210035/N*	221.00	228.00	3.50	9.16
MOR2220035/N*	222.00	229.00	3.50	9.20
MOR2230035/N*	223.00	230.00	3.50	9.28
MOR2240035/N*	224.00	231.00	3.50	9.35
MOR2250035/N*	225.00	232.00	3.50	9.42
MOR2260035/N*	226.00	233.00	3.50	9.46
MOR2270035/N*	227.00	234.00	3.50	9.49
MOR2280035/N*	228.00	235.00	3.50	9.53
MOR2290035/N*	229.00	236.00	3.50	9.64
MOR2300035/N*	230.00	237.00	3.50	9.74
MOR2310035/N*	231.00	238.00	3.50	9.89
MOR2320035/N*	232.00	239.00	3.50	10.00
MOR2330035/N*	233.00	240.00	3.50	10.14
MOR2340035/N	234.00	241.00	3.50	10.24
MOR2350035/N*	235.00	242.00	3.50	10.32
MOR2360035/N*	236.00	243.00	3.50	10.32
MOR2370035/N*	237.00	244.00	3.50	10.39
MOR2380035/N*	238.00	245.00	3.50	10.39
MOR2390035/N*	239.00	246.00	3.50	10.42

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR2400035/N	240.00	247.00	3.50	10.42	MOR2880035/N*	288.00	295.00	3.50	14.27
MOR2410035/N*	241.00	248.00	3.50	10.46	MOR2889035/N*	288.90	295.90	3.50	14.35
MOR2420035/N*	242.00	249.00	3.50	10.46	MOR2890035/N*	289.00	296.00	3.50	14.38
MOR2430035/N*	243.00	250.00	3.50	10.54	MOR2900035/N*	290.00	297.00	3.50	14.55
MOR2440035/N*	244.00	251.00	3.50	10.54	MOR2910035/N*	291.00	298.00	3.50	14.73
MOR2450035/N*	245.00	252.00	3.50	10.56	MOR2920035/N*	292.00	299.00	3.50	14.85
MOR2460035/N*	246.00	253.00	3.50	10.60	MOR2930035/N*	293.00	300.00	3.50	14.99
MOR2470035/N*	247.00	254.00	3.50	10.60	MOR2940035/N*	294.00	301.00	3.50	15.09
MOR2480035/N*	248.00	255.00	3.50	10.64	MOR2950035/N*	295.00	302.00	3.50	15.21
MOR2490035/N*	249.00	256.00	3.50	10.68	MOR2960035/N*	296.00	303.00	3.50	15.35
MOR2500035/N*	250.00	257.00	3.50	10.68	MOR2970035/N*	297.00	304.00	3.50	15.45
MOR2510035/N*	251.00	258.00	3.50	10.75	MOR2980035/N*	298.00	305.00	3.50	15.57
MOR2520035/N*	252.00	259.00	3.50	10.75	MOR2990035/N*	299.00	306.00	3.50	15.71
MOR2530035/N*	253.00	260.00	3.50	10.78	MOR3000035/N	300.00	307.00	3.50	15.82
MOR2540035/N*	254.00	261.00	3.50	10.78	MOR3010035/N*	301.00	308.00	3.50	O/R
MOR2550035/N*	255.00	262.00	3.50	10.82	MOR3020035/N*	302.00	309.00	3.50	O/R
MOR2560035/N*	256.00	263.00	3.50	10.82	MOR3030035/N*	303.00	310.00	3.50	O/R
MOR2570035/N*	257.00	264.00	3.50	10.82	MOR3040035/N*	304.00	311.00	3.50	O/R
MOR2580035/N*	258.00	265.00	3.50	10.86	MOR3050035/N*	305.00	312.00	3.50	O/R
MOR2590035/N*	259.00	266.00	3.50	10.86	MOR3060035/N*	306.00	313.00	3.50	O/R
MOR2600035/N*	260.00	267.00	3.50	10.88	MOR3070035/N*	307.00	314.00	3.50	O/R
MOR2610035/N*	261.00	268.00	3.50	10.88	MOR3080035/N*	308.00	315.00	3.50	O/R
MOR2620035/N*	262.00	269.00	3.50	10.93	MOR3090035/N*	309.00	316.00	3.50	O/R
MOR2630035/N*	263.00	270.00	3.50	10.93	MOR3100035/N*	310.00	317.00	3.50	O/R
MOR2640035/N*	264.00	271.00	3.50	10.96	MOR3110035/N*	311.00	318.00	3.50	O/R
MOR2650035/N*	265.00	272.00	3.50	10.96	MOR3120035/N*	312.00	319.00	3.50	O/R
MOR2660035/N	266.00	273.00	3.50	10.96	MOR3130035/N*	313.00	320.00	3.50	O/R
MOR2670035/N*	267.00	274.00	3.50	11.06	MOR3140035/N*	314.00	321.00	3.50	O/R
MOR2680035/N*	268.00	275.00	3.50	11.22	MOR3150035/N*	315.00	322.00	3.50	O/R
MOR2690035/N*	269.00	276.00	3.50	11.36	MOR3160035/N*	316.00	323.00	3.50	O/R
MOR2700035/N*	270.00	277.00	3.50	11.50	MOR3170035/N*	317.00	324.00	3.50	O/R
MOR2710035/N*	271.00	278.00	3.50	11.68	MOR3180035/N*	318.00	325.00	3.50	O/R
MOR2720035/N*	272.00	279.00	3.50	11.68	MOR3190035/N*	319.00	326.00	3.50	O/R
MOR2730035/N*	273.00	280.00	3.50	11.86	MOR3200035/N*	320.00	327.00	3.50	O/R
MOR2740035/N*	274.00	281.00	3.50	11.98	MOR3210035/N*	321.00	328.00	3.50	O/R
MOR2750035/N*	275.00	282.00	3.50	12.08	MOR3220035/N*	322.00	329.00	3.50	O/R
MOR2760035/N*	276.00	283.00	3.50	12.22	MOR3230035/N*	323.00	330.00	3.50	O/R
MOR2770035/N*	277.00	284.00	3.50	12.40	MOR3240035/N*	324.00	331.00	3.50	O/R
MOR2780035/N*	278.00	285.00	3.50	12.58	MOR3250035/N*	325.00	332.00	3.50	O/R
MOR2790035/N*	279.00	286.00	3.50	12.76	MOR3260035/N*	326.00	333.00	3.50	O/R
MOR2800035/N*	280.00	287.00	3.50	12.94	MOR3270035/N*	327.00	334.00	3.50	O/R
MOR2810035/N*	281.00	288.00	3.50	13.12	MOR3280035/N*	328.00	335.00	3.50	O/R
MOR2820035/N*	282.00	289.00	3.50	13.30	MOR3290035/N*	329.00	336.00	3.50	O/R
MOR2830035/N*	283.00	290.00	3.50	13.48	MOR3300035/N*	330.00	337.00	3.50	O/R
MOR2840035/N*	284.00	291.00	3.50	13.66	MOR3310035/N*	331.00	338.00	3.50	O/R
MOR2850035/N*	285.00	292.00	3.50	13.84	MOR3320035/N*	332.00	339.00	3.50	O/R
MOR2860035/N*	286.00	293.00	3.50	14.02	MOR3330035/N*	333.00	340.00	3.50	O/R
MOR2870035/N*	287.00	294.00	3.50	14.13	MOR3340035/N*	334.00	341.00	3.50	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR3350035/N*	335.00	342.00	3.50	O/R
MOR3360035/N*	336.00	343.00	3.50	O/R
MOR3370035/N*	337.00	344.00	3.50	O/R
MOR3380035/N*	338.00	345.00	3.50	O/R
MOR3390035/N*	339.00	346.00	3.50	O/R
MOR3400035/N*	340.00	347.00	3.50	O/R
MOR3410035/N*	341.00	348.00	3.50	O/R
MOR3420035/N*	342.00	349.00	3.50	O/R
MOR3430035/N*	343.00	350.00	3.50	O/R
MOR3440035/N*	344.00	351.00	3.50	O/R
MOR3450035/N*	345.00	352.00	3.50	O/R
MOR3460035/N*	346.00	353.00	3.50	O/R
MOR3470035/N*	347.00	354.00	3.50	O/R
MOR3480035/N*	348.00	355.00	3.50	O/R
MOR3490035/N*	349.00	356.00	3.50	O/R
MOR3500035/N*	350.00	357.00	3.50	O/R
MOR3510035/N*	351.00	358.00	3.50	11.75
MOR3520035/N*	352.00	359.00	3.50	O/R
MOR3530035/N*	353.00	360.00	3.50	O/R
MOR3540035/N*	354.00	361.00	3.50	O/R
MOR3550035/N*	355.00	362.00	3.50	O/R
MOR3560035/N*	356.00	363.00	3.50	O/R
MOR3570035/N*	357.00	364.00	3.50	O/R
MOR3580035/N*	358.00	365.00	3.50	O/R
MOR3590035/N*	359.00	366.00	3.50	O/R
MOR3600035/N*	360.00	367.00	3.50	O/R
MOR3610035/N*	361.00	368.00	3.50	O/R
MOR3620035/N*	362.00	369.00	3.50	O/R
MOR3630035/N*	363.00	370.00	3.50	O/R
MOR3640035/N*	364.00	371.00	3.50	O/R
MOR3650035/N*	365.00	372.00	3.50	O/R
MOR3660035/N*	366.00	373.00	3.50	O/R
MOR3670035/N*	367.00	374.00	3.50	O/R
MOR3680035/N*	368.00	375.00	3.50	22.34
MOR3690035/N*	369.00	376.00	3.50	O/R
MOR3700035/N*	370.00	377.00	3.50	O/R
MOR3710035/N*	371.00	378.00	3.50	O/R
MOR3720035/N*	372.00	379.00	3.50	O/R
MOR3730035/N*	373.00	380.00	3.50	O/R
MOR3740035/N*	374.00	381.00	3.50	O/R
MOR3750035/N*	375.00	382.00	3.50	O/R
MOR3760035/N*	376.00	383.00	3.50	O/R
MOR3770035/N*	377.00	384.00	3.50	O/R
MOR3780035/N*	378.00	385.00	3.50	O/R
MOR3790035/N*	379.00	386.00	3.50	O/R
MOR3800035/N*	380.00	387.00	3.50	O/R
MOR3810035/N*	381.00	388.00	3.50	O/R
MOR3820035/N*	382.00	389.00	3.50	O/R

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR3830035/N*	383.00	390.00	3.50	O/R
MOR3840035/N*	384.00	391.00	3.50	O/R
MOR3850035/N*	385.00	392.00	3.50	O/R
MOR3860035/N*	386.00	393.00	3.50	O/R
MOR3870035/N*	387.00	394.00	3.50	O/R
MOR3880035/N*	388.00	395.00	3.50	O/R
MOR3890035/N*	389.00	396.00	3.50	O/R
MOR3900035/N*	390.00	397.00	3.50	O/R
MOR3910035/N*	391.00	398.00	3.50	O/R
MOR3920035/N*	392.00	399.00	3.50	O/R
MOR3930035/N*	393.00	400.00	3.50	O/R
MOR3940035/N*	394.00	401.00	3.50	O/R
MOR3950035/N*	395.00	402.00	3.50	O/R
MOR3960035/N*	396.00	403.00	3.50	O/R
MOR3970035/N*	397.00	404.00	3.50	O/R
MOR3980035/N*	398.00	405.00	3.50	O/R
MOR3990035/N*	399.00	406.00	3.50	O/R
MOR4000035/N*	400.00	407.00	3.50	O/R
MOR4010035/N*	401.00	408.00	3.50	O/R
MOR4020035/N*	402.00	409.00	3.50	O/R
MOR4030035/N*	403.00	410.00	3.50	O/R
MOR4040035/N*	404.00	411.00	3.50	O/R
MOR4050035/N*	405.00	412.00	3.50	O/R
MOR4060035/N*	406.00	413.00	3.50	O/R
MOR4070035/N*	407.00	414.00	3.50	O/R
MOR4080035/N*	408.00	415.00	3.50	O/R
MOR4090035/N*	409.00	416.00	3.50	O/R
MOR4100035/N*	410.00	417.00	3.50	O/R
MOR4110035/N*	411.00	418.00	3.50	O/R
MOR4120035/N*	412.00	419.00	3.50	O/R
MOR4130035/N*	413.00	420.00	3.50	O/R
MOR4140035/N*	414.00	421.00	3.50	O/R
MOR4150035/N*	415.00	422.00	3.50	O/R
MOR4160035/N*	416.00	423.00	3.50	O/R
MOR4170035/N*	417.00	424.00	3.50	O/R
MOR4180035/N*	418.00	425.00	3.50	O/R
MOR4190035/N*	419.00	426.00	3.50	O/R
MOR4200035/N*	420.00	427.00	3.50	O/R
MOR4210035/N*	421.00	428.00	3.50	O/R
MOR4220035/N*	422.00	429.00	3.50	O/R
MOR4230035/N*	423.00	430.00	3.50	O/R
MOR4240035/N*	424.00	431.00	3.50	O/R
MOR4250035/N*	425.00	432.00	3.50	O/R
MOR4260035/N*	426.00	433.00	3.50	O/R
MOR4270035/N*	427.00	434.00	3.50	O/R
MOR4280035/N*	428.00	435.00	3.50	O/R
MOR4290035/N*	429.00	436.00	3.50	O/R
MOR4300035/N*	430.00	437.00	3.50	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR4310035/N*	431.00	438.00	3.50	O/R	MOR0260040/N	26.00	34.00	4.00	0.38
MOR4320035/N*	432.00	439.00	3.50	O/R	MOR0270040/N	27.00	35.00	4.00	0.38
MOR4330035/N*	433.00	440.00	3.50	O/R	MOR0280040/N	28.00	36.00	4.00	0.39
MOR4340035/N*	434.00	441.00	3.50	O/R	MOR0290040/N*	29.00	37.00	4.00	0.39
MOR4350035/N*	435.00	442.00	3.50	O/R	MOR0300040/N	30.00	38.00	4.00	0.39
MOR4360035/N*	436.00	443.00	3.50	O/R	MOR0310040/N	31.00	39.00	4.00	0.44
MOR4370035/N*	437.00	444.00	3.50	O/R	MOR0320040/N	32.00	40.00	4.00	0.42
MOR4380035/N*	438.00	445.00	3.50	O/R	MOR0330040/N	33.00	41.00	4.00	0.42
MOR4390035/N*	439.00	446.00	3.50	O/R	MOR0340040/N	34.00	42.00	4.00	0.42
MOR4400035/N*	440.00	447.00	3.50	O/R	MOR0350040/N*	35.00	43.00	4.00	0.42
MOR0183036/N*	18.30	25.50	3.60	0.54	MOR0360040/N	36.00	44.00	4.00	0.47
MOR0198036/N*	19.80	27.00	3.60	0.58	MOR0370040/N	37.00	45.00	4.00	0.47
MOR0200036/N*	20.00	27.20	3.60	0.59	MOR0380040/N	38.00	46.00	4.00	0.47
MOR0213036/N*	21.30	28.50	3.60	0.62	MOR0390040/N	39.00	47.00	4.00	0.47
MOR0230036/N*	23.00	30.20	3.60	0.64	MOR0400040/N	40.00	48.00	4.00	0.47
MOR0246036/N*	24.60	31.80	3.60	0.64	MOR0410040/N	41.00	49.00	4.00	0.47
MOR0252036/N*	25.20	32.40	3.60	0.65	MOR0420040/N	42.00	50.00	4.00	0.53
MOR0262036/N*	26.20	33.40	3.60	0.68	MOR0430040/N	43.00	51.00	4.00	0.53
MOR0278036/N	27.80	35.00	3.60	0.72	MOR0440040/N	44.00	52.00	4.00	0.53
MOR0293036/N*	29.30	36.50	3.60	0.76	MOR0450040/N	45.00	53.00	4.00	0.53
MOR0308036/N*	30.80	38.00	3.60	0.76	MOR0460040/N	46.00	54.00	4.00	0.58
MOR0325036/N*	32.50	39.70	3.60	0.78	MOR0470040/N	47.00	55.00	4.00	0.58
MOR0341036/N*	34.10	41.30	3.60	0.86	MOR0480040/N	48.00	56.00	4.00	0.58
MOR0356036/N*	35.60	42.80	3.60	0.87	MOR0490040/N	49.00	57.00	4.00	0.58
MOR0373036/N*	37.30	44.50	3.60	0.94	MOR0500040/N	50.00	58.00	4.00	0.58
MOR0434036/N*	43.40	50.60	3.60	1.04	MOR0510040/N	51.00	59.00	4.00	0.61
MOR0040040/N*	4.00	12.00	4.00	0.13	MOR0520040/N	52.00	60.00	4.00	0.61
MOR0050040/N*	5.00	13.00	4.00	0.13	MOR0530040/N	53.00	61.00	4.00	0.61
MOR0060040/N	6.00	14.00	4.00	0.13	MOR0540040/N	54.00	62.00	4.00	0.61
MOR0070040/N	7.00	15.00	4.00	0.13	MOR0550040/N	55.00	63.00	4.00	0.61
MOR0080040/N	8.00	16.00	4.00	0.13	MOR0560040/N	56.00	64.00	4.00	0.67
MOR0090040/N*	9.00	17.00	4.00	0.13	MOR0570040/N	57.00	65.00	4.00	0.67
MOR0100040/N	10.00	18.00	4.00	0.16	MOR0580040/N	58.00	66.00	4.00	0.67
MOR0110040/N*	11.00	19.00	4.00	0.16	MOR0590040/N*	59.00	67.00	4.00	0.67
MOR0120040/N	12.00	20.00	4.00	0.16	MOR0600040/N	60.00	68.00	4.00	0.67
MOR0130040/N*	13.00	21.00	4.00	0.19	MOR0610040/N*	61.00	69.00	4.00	0.73
MOR0140040/N*	14.00	22.00	4.00	0.19	MOR0620040/N	62.00	70.00	4.00	0.73
MOR0150040/N	15.00	23.00	4.00	0.20	MOR0630040/N	63.00	71.00	4.00	0.73
MOR0160040/N*	16.00	24.00	4.00	0.25	MOR0640040/N	64.00	72.00	4.00	0.73
MOR0170040/N	17.00	25.00	4.00	0.25	MOR0650040/N	65.00	73.00	4.00	0.73
MOR0180040/N	18.00	26.00	4.00	0.25	MOR0660040/N	66.00	74.00	4.00	0.90
MOR0190040/N	19.00	27.00	4.00	0.25	MOR0670040/N	67.00	75.00	4.00	0.90
MOR0200040/N	20.00	28.00	4.00	0.25	MOR0680040/N	68.00	76.00	4.00	0.90
MOR0210040/N*	21.00	29.00	4.00	0.28	MOR0690040/N	69.00	77.00	4.00	0.90
MOR0220040/N	22.00	30.00	4.00	0.28	MOR0700040/N*	70.00	78.00	4.00	0.90
MOR0230040/N	23.00	31.00	4.00	0.28	MOR0710040/N	71.00	79.00	4.00	0.94
MOR0240040/N	24.00	32.00	4.00	0.28	MOR0720040/N	72.00	80.00	4.00	0.94
MOR0250040/N	25.00	33.00	4.00	0.28	MOR0730040/N	73.00	81.00	4.00	0.94

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0740040/N	74.00	82.00	4.00	0.94
MOR0750040/N	75.00	83.00	4.00	0.94
MOR0760040/N	76.00	84.00	4.00	0.99
MOR0770040/N	77.00	85.00	4.00	0.99
MOR0780040/N	78.00	86.00	4.00	0.99
MOR0790040/N	79.00	87.00	4.00	0.99
MOR0800040/N	80.00	88.00	4.00	0.99
MOR0810040/N	81.00	89.00	4.00	1.00
MOR0820040/N	82.00	90.00	4.00	1.01
MOR0830040/N	83.00	91.00	4.00	1.01
MOR0840040/N	84.00	92.00	4.00	1.01
MOR0850040/N	85.00	93.00	4.00	1.03
MOR0860040/N*	86.00	94.00	4.00	1.03
MOR0870040/N*	87.00	95.00	4.00	1.04
MOR0880040/N	88.00	96.00	4.00	1.04
MOR0890040/N	89.00	97.00	4.00	1.04
MOR0900040/N	90.00	98.00	4.00	1.04
MOR0910040/N*	91.00	99.00	4.00	1.24
MOR0920040/N	92.00	100.00	4.00	1.24
MOR0930040/N	93.00	101.00	4.00	1.24
MOR0940040/N	94.00	102.00	4.00	1.24
MOR0950040/N	95.00	103.00	4.00	1.24
MOR0960040/N	96.00	104.00	4.00	1.24
MOR0970040/N*	97.00	105.00	4.00	1.24
MOR0980040/N	98.00	106.00	4.00	1.24
MOR0990040/N*	99.00	107.00	4.00	1.24
MOR1000040/N	100.00	108.00	4.00	1.24
MOR1010040/N*	101.00	109.00	4.00	1.32
MOR1020040/N	102.00	110.00	4.00	1.32
MOR1030040/N	103.00	111.00	4.00	1.32
MOR1040040/N	104.00	112.00	4.00	1.91
MOR1050040/N	105.00	113.00	4.00	1.32
MOR1060040/N*	106.00	114.00	4.00	1.32
MOR1070040/N	107.00	115.00	4.00	1.32
MOR1080040/N	108.00	116.00	4.00	1.32
MOR1090040/N*	109.00	117.00	4.00	1.91
MOR1100040/N	110.00	118.00	4.00	1.33
MOR1110040/N	111.00	119.00	4.00	1.37
MOR1120040/N	112.00	120.00	4.00	1.37
MOR1130040/N*	113.00	121.00	4.00	1.37
MOR1140040/N	114.00	122.00	4.00	1.37
MOR1150040/N	115.00	123.00	4.00	1.37
MOR1160040/N	116.00	124.00	4.00	2.15
MOR1170040/N	117.00	125.00	4.00	1.37
MOR1180040/N	118.00	126.00	4.00	1.37
MOR1190040/N*	119.00	127.00	4.00	1.37
MOR1200040/N	120.00	128.00	4.00	1.37
MOR1210040/N*	121.00	129.00	4.00	1.42

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1220040/N	122.00	130.00	4.00	1.42
MOR1230040/N*	123.00	131.00	4.00	1.42
MOR1240040/N*	124.00	132.00	4.00	1.42
MOR1250040/N	125.00	133.00	4.00	1.42
MOR1260040/N*	126.00	134.00	4.00	1.42
MOR1270040/N	127.00	135.00	4.00	1.42
MOR1280040/N*	128.00	136.00	4.00	1.42
MOR1290040/N*	129.00	137.00	4.00	1.42
MOR1300040/N	130.00	138.00	4.00	1.42
MOR1310040/N*	131.00	139.00	4.00	1.44
MOR1320040/N	132.00	140.00	4.00	1.44
MOR1330040/N	133.00	141.00	4.00	1.44
MOR1340040/N*	134.00	142.00	4.00	1.44
MOR1350040/N	135.00	143.00	4.00	1.44
MOR1360040/N*	136.00	144.00	4.00	1.44
MOR1370040/N	137.00	145.00	4.00	1.44
MOR1380040/N	138.00	146.00	4.00	1.52
MOR1390040/N*	139.00	147.00	4.00	1.52
MOR1400040/N	140.00	148.00	4.00	1.52
MOR1410040/N*	141.00	149.00	4.00	1.69
MOR1420040/N*	142.00	150.00	4.00	1.69
MOR1430040/N*	143.00	151.00	4.00	1.69
MOR1440040/N	144.00	152.00	4.00	1.69
MOR1450040/N*	145.00	153.00	4.00	1.69
MOR1460040/N	146.00	154.00	4.00	1.69
MOR1470040/N*	147.00	155.00	4.00	1.69
MOR1480040/N*	148.00	156.00	4.00	1.69
MOR1490040/N*	149.00	157.00	4.00	1.69
MOR1500040/N*	150.00	158.00	4.00	1.69
MOR1510040/N*	151.00	159.00	4.00	1.98
MOR1520040/N	152.00	160.00	4.00	1.98
MOR1530040/N*	153.00	161.00	4.00	1.98
MOR1540040/N	154.00	162.00	4.00	1.98
MOR1550040/N	155.00	163.00	4.00	1.98
MOR1560040/N	156.00	164.00	4.00	1.98
MOR1570040/N*	157.00	165.00	4.00	1.98
MOR1580040/N	158.00	166.00	4.00	1.98
MOR1590040/N*	159.00	167.00	4.00	1.98
MOR1600040/N	160.00	168.00	4.00	1.98
MOR1610040/N*	161.00	169.00	4.00	2.29
MOR1620040/N*	162.00	170.00	4.00	2.29
MOR1630040/N*	163.00	171.00	4.00	2.29
MOR1640040/N*	164.00	172.00	4.00	2.29
MOR1650040/N	165.00	173.00	4.00	2.29
MOR1660040/N	166.00	174.00	4.00	2.66
MOR1670040/N*	167.00	175.00	4.00	2.66
MOR1680040/N	168.00	176.00	4.00	2.66
MOR1690040/N*	169.00	177.00	4.00	2.66

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR1700040/N*	170.00	178.00	4.00	2.66	MOR2180040/N*	218.00	226.00	4.00	5.70
MOR1710040/N*	171.00	179.00	4.00	2.66	MOR2190040/N*	219.00	227.00	4.00	5.70
MOR1720040/N	172.00	180.00	4.00	2.66	MOR2200040/N	220.00	228.00	4.00	5.70
MOR1730040/N*	173.00	181.00	4.00	2.69	MOR2210040/N*	221.00	229.00	4.00	5.70
MOR1740040/N*	174.00	182.00	4.00	2.69	MOR2220040/N*	222.00	230.00	4.00	5.70
MOR1750040/N	175.00	183.00	4.00	2.69	MOR2230040/N*	223.00	231.00	4.00	5.70
MOR1760040/N*	176.00	184.00	4.00	2.69	MOR2240040/N*	224.00	232.00	4.00	5.70
MOR1770040/N*	177.00	185.00	4.00	2.69	MOR2250040/N*	225.00	233.00	4.00	5.70
MOR1780040/N*	178.00	186.00	4.00	2.72	MOR2260040/N*	226.00	234.00	4.00	5.70
MOR1790040/N*	179.00	187.00	4.00	2.72	MOR2270040/N*	227.00	235.00	4.00	5.70
MOR1800040/N	180.00	188.00	4.00	2.72	MOR2280040/N	228.00	236.00	4.00	5.70
MOR1810040/N*	181.00	189.00	4.00	3.31	MOR2290040/N*	229.00	237.00	4.00	5.70
MOR1820040/N	182.00	190.00	4.00	3.31	MOR2300040/N*	230.00	238.00	4.00	5.70
MOR1830040/N*	183.00	191.00	4.00	3.31	MOR2310040/N*	231.00	239.00	4.00	5.70
MOR1840040/N	184.00	192.00	4.00	3.31	MOR2320040/N*	232.00	240.00	4.00	5.70
MOR1850040/N*	185.00	193.00	4.00	3.31	MOR2330040/N*	233.00	241.00	4.00	5.70
MOR1860040/N*	186.00	194.00	4.00	3.31	MOR2340040/N*	234.00	242.00	4.00	5.70
MOR1870040/N*	187.00	195.00	4.00	3.31	MOR2350040/N	235.00	243.00	4.00	5.70
MOR1880040/N*	188.00	196.00	4.00	3.31	MOR2360040/N*	236.00	244.00	4.00	5.70
MOR1890040/N*	189.00	197.00	4.00	3.31	MOR2370040/N*	237.00	245.00	4.00	5.70
MOR1900040/N	190.00	198.00	4.00	3.31	MOR2380040/N	238.00	246.00	4.00	5.70
MOR1910040/N*	191.00	199.00	4.00	3.31	MOR2390040/N*	239.00	247.00	4.00	5.70
MOR1920040/N	192.00	200.00	4.00	3.31	MOR2400040/N*	240.00	248.00	4.00	5.70
MOR1930040/N*	193.00	201.00	4.00	3.31	MOR2410040/N*	241.00	249.00	4.00	5.73
MOR1940040/N	194.00	202.00	4.00	3.31	MOR2420040/N*	242.00	250.00	4.00	5.73
MOR1950040/N	195.00	203.00	4.00	3.31	MOR2430040/N*	243.00	251.00	4.00	5.85
MOR1960040/N*	196.00	204.00	4.00	3.33	MOR2440040/N*	244.00	252.00	4.00	5.85
MOR1970040/N*	197.00	205.00	4.00	3.33	MOR2450040/N*	245.00	253.00	4.00	5.85
MOR1980040/N*	198.00	206.00	4.00	3.33	MOR2460040/N*	246.00	254.00	4.00	5.85
MOR1990040/N*	199.00	207.00	4.00	3.33	MOR2470040/N*	247.00	255.00	4.00	5.85
MOR2000040/N	200.00	208.00	4.00	3.33	MOR2480040/N*	248.00	256.00	4.00	5.85
MOR2010040/N*	201.00	209.00	4.00	5.70	MOR2490040/N*	249.00	257.00	4.00	5.85
MOR2020040/N*	202.00	210.00	4.00	5.70	MOR2500040/N	250.00	258.00	4.00	5.85
MOR2030040/N*	203.00	211.00	4.00	5.70	MOR2510040/N*	251.00	259.00	4.00	6.17
MOR2040040/N	204.00	212.00	4.00	5.70	MOR2520040/N*	252.00	260.00	4.00	6.17
MOR2050040/N*	205.00	213.00	4.00	5.70	MOR2530040/N*	253.00	261.00	4.00	6.17
MOR2060040/N	206.00	214.00	4.00	5.70	MOR2540040/N*	254.00	262.00	4.00	6.17
MOR2070040/N*	207.00	215.00	4.00	5.70	MOR2550040/N	255.00	263.00	4.00	6.17
MOR2080040/N*	208.00	216.00	4.00	5.70	MOR2560040/N*	256.00	264.00	4.00	6.17
MOR2090040/N*	209.00	217.00	4.00	5.70	MOR2570040/N*	257.00	265.00	4.00	6.17
MOR2100040/N	210.00	218.00	4.00	5.70	MOR2580040/N*	258.00	266.00	4.00	6.17
MOR2110040/N*	211.00	219.00	4.00	5.70	MOR2590040/N*	259.00	267.00	4.00	6.17
MOR2120040/N*	212.00	220.00	4.00	5.70	MOR2600040/N	260.00	268.00	4.00	6.17
MOR2130040/N*	213.00	221.00	4.00	5.70	MOR2610040/N*	261.00	269.00	4.00	6.17
MOR2140040/N*	214.00	222.00	4.00	5.70	MOR2620040/N*	262.00	270.00	4.00	6.17
MOR2150040/N*	215.00	223.00	4.00	5.70	MOR2630040/N*	263.00	271.00	4.00	6.17
MOR2160040/N*	216.00	224.00	4.00	5.70	MOR2640040/N*	264.00	272.00	4.00	6.17
MOR2170040/N*	217.00	225.00	4.00	5.70	MOR2650040/N*	265.00	273.00	4.00	6.17

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR2660040/N*	266.00	274.00	4.00	6.68
MOR2670040/N*	267.00	275.00	4.00	6.68
MOR2680040/N*	268.00	276.00	4.00	6.68
MOR2690040/N*	269.00	277.00	4.00	6.68
MOR2700040/N*	270.00	278.00	4.00	6.68
MOR2710040/N*	271.00	279.00	4.00	7.03
MOR2720040/N*	272.00	280.00	4.00	7.03
MOR2730040/N*	273.00	281.00	4.00	7.03
MOR2740040/N	274.00	282.00	4.00	7.03
MOR2750040/N*	275.00	283.00	4.00	7.03
MOR2760040/N*	276.00	284.00	4.00	7.03
MOR2770040/N*	277.00	285.00	4.00	7.03
MOR2780040/N*	278.00	286.00	4.00	7.03
MOR2790040/N*	279.00	287.00	4.00	7.03
MOR2800040/N*	280.00	288.00	4.00	7.03
MOR2810040/N*	281.00	289.00	4.00	7.03
MOR2820040/N*	282.00	290.00	4.00	7.03
MOR2830040/N*	283.00	291.00	4.00	7.03
MOR2840040/N*	284.00	292.00	4.00	7.03
MOR2850040/N*	285.00	293.00	4.00	7.03
MOR2860040/N*	286.00	294.00	4.00	17.52
MOR2870040/N*	287.00	295.00	4.00	17.52
MOR2880040/N*	288.00	296.00	4.00	17.52
MOR2890040/N*	289.00	297.00	4.00	17.52
MOR2900040/N*	290.00	298.00	4.00	17.52
MOR2910040/N*	291.00	299.00	4.00	17.52
MOR2920040/N	292.00	300.00	4.00	17.52
MOR2930040/N*	293.00	301.00	4.00	17.52
MOR2940040/N*	294.00	302.00	4.00	17.52
MOR2950040/N*	295.00	303.00	4.00	17.52
MOR2960040/N*	296.00	304.00	4.00	17.52
MOR2970040/N*	297.00	305.00	4.00	17.52
MOR2980040/N*	298.00	306.00	4.00	17.52
MOR2990040/N*	299.00	307.00	4.00	17.52
MOR3000040/N*	300.00	308.00	4.00	17.52
MOR3010040/N*	301.00	309.00	4.00	O/R
MOR3020040/N*	302.00	310.00	4.00	O/R
MOR3030040/N*	303.00	311.00	4.00	O/R
MOR3040040/N*	304.00	312.00	4.00	O/R
MOR3050040/N*	305.00	313.00	4.00	19.15
MOR3060040/N*	306.00	314.00	4.00	O/R
MOR3070040/N*	307.00	315.00	4.00	O/R
MOR3080040/N*	308.00	316.00	4.00	O/R
MOR3090040/N*	309.00	317.00	4.00	O/R
MOR3100040/N*	310.00	318.00	4.00	20.29
MOR3110040/N*	311.00	319.00	4.00	O/R
MOR3120040/N*	312.00	320.00	4.00	O/R
MOR3130040/N*	313.00	321.00	4.00	O/R

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR3140040/N*	314.00	322.00	4.00	O/R
MOR3150040/N*	315.00	323.00	4.00	O/R
MOR3160040/N*	316.00	324.00	4.00	O/R
MOR3170040/N*	317.00	325.00	4.00	O/R
MOR3180040/N*	318.00	326.00	4.00	O/R
MOR3190040/N*	319.00	327.00	4.00	O/R
MOR3200040/N*	320.00	328.00	4.00	O/R
MOR3210040/N*	321.00	329.00	4.00	O/R
MOR3220040/N*	322.00	330.00	4.00	O/R
MOR3230040/N*	323.00	331.00	4.00	O/R
MOR3240040/N*	324.00	332.00	4.00	O/R
MOR3250040/N*	325.00	333.00	4.00	O/R
MOR3260040/N*	326.00	334.00	4.00	O/R
MOR3270040/N*	327.00	335.00	4.00	O/R
MOR3280040/N*	328.00	336.00	4.00	O/R
MOR3290040/N*	329.00	337.00	4.00	O/R
MOR3300040/N*	330.00	338.00	4.00	O/R
MOR3310040/N*	331.00	339.00	4.00	O/R
MOR3320040/N*	332.00	340.00	4.00	O/R
MOR3330040/N*	333.00	341.00	4.00	O/R
MOR3340040/N*	334.00	342.00	4.00	O/R
MOR3350040/N*	335.00	343.00	4.00	O/R
MOR3360040/N*	336.00	344.00	4.00	O/R
MOR3370040/N*	337.00	345.00	4.00	O/R
MOR3380040/N*	338.00	346.00	4.00	O/R
MOR3390040/N*	339.00	347.00	4.00	O/R
MOR3400040/N*	340.00	348.00	4.00	O/R
MOR3410040/N*	341.00	349.00	4.00	O/R
MOR3420040/N*	342.00	350.00	4.00	O/R
MOR3430040/N*	343.00	351.00	4.00	O/R
MOR3440040/N*	344.00	352.00	4.00	O/R
MOR3450040/N*	345.00	353.00	4.00	O/R
MOR3460040/N*	346.00	354.00	4.00	O/R
MOR3470040/N*	347.00	355.00	4.00	O/R
MOR3480040/N*	348.00	356.00	4.00	O/R
MOR3490040/N*	349.00	357.00	4.00	O/R
MOR3500040/N*	350.00	358.00	4.00	O/R
MOR3510040/N*	351.00	359.00	4.00	O/R
MOR3520040/N*	352.00	360.00	4.00	O/R
MOR3530040/N*	353.00	361.00	4.00	O/R
MOR3540040/N*	354.00	362.00	4.00	O/R
MOR3550040/N*	355.00	363.00	4.00	O/R
MOR3560040/N*	356.00	364.00	4.00	O/R
MOR3570040/N*	357.00	365.00	4.00	O/R
MOR3580040/N*	358.00	366.00	4.00	O/R
MOR3590040/N*	359.00	367.00	4.00	O/R
MOR3600040/N*	360.00	368.00	4.00	O/R
MOR3610040/N*	361.00	369.00	4.00	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR3620040/N*	362.00	370.00	4.00	O/R	MOR4100040/N*	410.00	418.00	4.00	O/R
MOR3630040/N*	363.00	371.00	4.00	O/R	MOR4110040/N*	411.00	419.00	4.00	O/R
MOR3640040/N*	364.00	372.00	4.00	O/R	MOR4120040/N*	412.00	420.00	4.00	O/R
MOR3650040/N*	365.00	373.00	4.00	O/R	MOR4130040/N*	413.00	421.00	4.00	O/R
MOR3660040/N*	366.00	374.00	4.00	O/R	MOR4140040/N*	414.00	422.00	4.00	O/R
MOR3670040/N*	367.00	375.00	4.00	O/R	MOR4150040/N*	415.00	423.00	4.00	O/R
MOR3680040/N*	368.00	376.00	4.00	O/R	MOR4160040/N*	416.00	424.00	4.00	O/R
MOR3690040/N*	369.00	377.00	4.00	O/R	MOR4170040/N*	417.00	425.00	4.00	O/R
MOR3700040/N*	370.00	378.00	4.00	O/R	MOR4180040/N*	418.00	426.00	4.00	O/R
MOR3710040/N*	371.00	379.00	4.00	O/R	MOR4190040/N*	419.00	427.00	4.00	O/R
MOR3720040/N*	372.00	380.00	4.00	O/R	MOR4200040/N*	420.00	428.00	4.00	O/R
MOR3730040/N*	373.00	381.00	4.00	O/R	MOR4210040/N*	421.00	429.00	4.00	O/R
MOR3740040/N*	374.00	382.00	4.00	O/R	MOR4220040/N*	422.00	430.00	4.00	O/R
MOR3750040/N*	375.00	383.00	4.00	O/R	MOR4230040/N*	423.00	431.00	4.00	O/R
MOR3760040/N	376.00	384.00	4.00	O/R	MOR4240040/N*	424.00	432.00	4.00	O/R
MOR3770040/N*	377.00	385.00	4.00	O/R	MOR4250040/N*	425.00	433.00	4.00	O/R
MOR3780040/N*	378.00	386.00	4.00	O/R	MOR4260040/N*	426.00	434.00	4.00	O/R
MOR3790040/N*	379.00	387.00	4.00	O/R	MOR4270040/N*	427.00	435.00	4.00	O/R
MOR3800040/N*	380.00	388.00	4.00	O/R	MOR4280040/N*	428.00	436.00	4.00	O/R
MOR3810040/N*	381.00	389.00	4.00	O/R	MOR4290040/N*	429.00	437.00	4.00	O/R
MOR3820040/N*	382.00	390.00	4.00	O/R	MOR4300040/N*	430.00	438.00	4.00	O/R
MOR3830040/N*	383.00	391.00	4.00	O/R	MOR4310040/N*	431.00	439.00	4.00	O/R
MOR3840040/N*	384.00	392.00	4.00	O/R	MOR4320040/N*	432.00	440.00	4.00	O/R
MOR3850040/N*	385.00	393.00	4.00	O/R	MOR4330040/N*	433.00	441.00	4.00	O/R
MOR3860040/N*	386.00	394.00	4.00	O/R	MOR4340040/N*	434.00	442.00	4.00	O/R
MOR3870040/N*	387.00	395.00	4.00	O/R	MOR4350040/N*	435.00	443.00	4.00	O/R
MOR3880040/N*	388.00	396.00	4.00	O/R	MOR4360040/N*	436.00	444.00	4.00	O/R
MOR3890040/N*	389.00	397.00	4.00	O/R	MOR4370040/N*	437.00	445.00	4.00	O/R
MOR3900040/N*	390.00	398.00	4.00	O/R	MOR4380040/N*	438.00	446.00	4.00	O/R
MOR3910040/N*	391.00	399.00	4.00	O/R	MOR4390040/N*	439.00	447.00	4.00	O/R
MOR3920040/N*	392.00	400.00	4.00	O/R	MOR4400040/N*	440.00	448.00	4.00	O/R
MOR3930040/N*	393.00	401.00	4.00	O/R	MOR4410040/N*	441.00	449.00	4.00	O/R
MOR3940040/N*	394.00	402.00	4.00	O/R	MOR4420040/N*	442.00	450.00	4.00	O/R
MOR3950040/N*	395.00	403.00	4.00	O/R	MOR4430040/N*	443.00	451.00	4.00	O/R
MOR3960040/N*	396.00	404.00	4.00	O/R	MOR4440040/N*	444.00	452.00	4.00	O/R
MOR3970040/N*	397.00	405.00	4.00	O/R	MOR4450040/N*	445.00	453.00	4.00	O/R
MOR3980040/N*	398.00	406.00	4.00	O/R	MOR4460040/N*	446.00	454.00	4.00	O/R
MOR3990040/N*	399.00	407.00	4.00	O/R	MOR4470040/N*	447.00	455.00	4.00	O/R
MOR4000040/N*	400.00	408.00	4.00	O/R	MOR4480040/N*	448.00	456.00	4.00	O/R
MOR4010040/N*	401.00	409.00	4.00	O/R	MOR4490040/N*	449.00	457.00	4.00	O/R
MOR4020040/N*	402.00	410.00	4.00	O/R	MOR4500040/N*	450.00	458.00	4.00	O/R
MOR4030040/N*	403.00	411.00	4.00	O/R	MOR4510040/N*	451.00	459.00	4.00	O/R
MOR4040040/N*	404.00	412.00	4.00	O/R	MOR4520040/N*	452.00	460.00	4.00	O/R
MOR4050040/N*	405.00	413.00	4.00	O/R	MOR4530040/N*	453.00	461.00	4.00	O/R
MOR4060040/N*	406.00	414.00	4.00	O/R	MOR4540040/N*	454.00	462.00	4.00	O/R
MOR4070040/N*	407.00	415.00	4.00	O/R	MOR4550040/N*	455.00	463.00	4.00	O/R
MOR4080040/N*	408.00	416.00	4.00	O/R	MOR4560040/N*	456.00	464.00	4.00	O/R
MOR4090040/N*	409.00	417.00	4.00	O/R	MOR4570040/N*	457.00	465.00	4.00	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR4580040/N*	458.00	466.00	4.00	O/R
MOR4590040/N*	459.00	467.00	4.00	O/R
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
MOR4630040/N*	463.00	471.00	4.00	O/R
MOR4640040/N*	464.00	472.00	4.00	O/R
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
MOR4700040/N*	470.00	478.00	4.00	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
MOR4760040/N*	476.00	484.00	4.00	27.95
MOR4770040/N*	477.00	485.00	4.00	O/R
MOR4780040/N*	478.00	486.00	4.00	O/R
MOR4790040/N*	479.00	487.00	4.00	O/R
MOR4800040/N*	480.00	488.00	4.00	O/R
MOR4810040/N*	481.00	489.00	4.00	O/R
MOR4820040/N*	482.00	490.00	4.00	O/R
MOR4830040/N*	483.00	491.00	4.00	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
MOR4870040/N*	487.00	495.00	4.00	O/R
MOR4880040/N*	488.00	496.00	4.00	O/R
MOR4890040/N*	489.00	497.00	4.00	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
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
MOR5000040/N*	500.00	508.00	4.00	O/R
MOR5300040/N*	530.00	538.00	4.00	O/R
MOR0060045/N*	6.00	15.00	4.50	0.31
MOR0080045/N*	8.00	17.00	4.50	0.33
MOR0090045/N*	9.00	18.00	4.50	0.33
MOR0095045/N*	9.50	18.50	4.50	0.36

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0100045/N*	10.00	19.00	4.50	0.40
MOR0105045/N*	10.50	19.50	4.50	0.41
MOR0110045/N*	11.00	20.00	4.50	0.42
MOR0120045/N*	12.00	21.00	4.50	0.48
MOR0130045/N*	13.00	22.00	4.50	0.50
MOR0145045/N*	14.50	23.50	4.50	0.52
MOR0150045/N*	15.00	24.00	4.50	0.53
MOR0155045/N*	15.50	24.50	4.50	0.55
MOR0160045/N*	16.00	25.00	4.50	0.58
MOR0170045/N*	17.00	26.00	4.50	0.62
MOR0180045/N	18.00	27.00	4.50	0.66
MOR0190045/N*	19.00	28.00	4.50	0.68
MOR0200045/N	20.00	29.00	4.50	0.69
MOR0210045/N*	21.00	30.00	4.50	0.69
MOR0215045/N*	21.50	30.50	4.50	0.71
MOR0220045/N	22.00	31.00	4.50	0.71
MOR0225045/N*	22.50	31.50	4.50	0.72
MOR0230045/N*	23.00	32.00	4.50	0.73
MOR0240045/N	24.00	33.00	4.50	0.73
MOR0245045/N*	24.50	33.50	4.50	0.75
MOR0250045/N*	25.00	34.00	4.50	0.76
MOR0260045/N*	26.00	35.00	4.50	0.82
MOR0270045/N*	27.00	36.00	4.50	0.85
MOR0275045/N*	27.50	36.50	4.50	0.85
MOR0280045/N*	28.00	37.00	4.50	0.86
MOR0285045/N*	28.50	37.50	4.50	0.87
MOR0290045/N*	29.00	38.00	4.50	0.87
MOR0295045/N*	29.50	38.50	4.50	0.90
MOR0300045/N	30.00	39.00	4.50	0.90
MOR0310045/N	31.00	40.00	4.50	0.94
MOR0315045/N	31.50	40.50	4.50	0.99
MOR0320045/N	32.00	41.00	4.50	1.00
MOR0330045/N*	33.00	42.00	4.50	1.05
MOR0340045/N*	34.00	43.00	4.50	1.08
MOR0345045/N*	34.50	43.50	4.50	1.14
MOR0350045/N*	35.00	44.00	4.50	1.18
MOR0355045/N*	35.50	44.50	4.50	1.22
MOR0360045/N	36.00	45.00	4.50	1.22
MOR0370045/N	37.00	46.00	4.50	1.25
MOR0375045/N*	37.50	46.50	4.50	1.26
MOR0380045/N	38.00	47.00	4.50	1.29
MOR0390045/N*	39.00	48.00	4.50	1.30
MOR0400045/N	40.00	49.00	4.50	1.35
MOR0405045/N*	40.50	49.50	4.50	1.38
MOR0410045/N*	41.00	50.00	4.50	1.39
MOR0420045/N*	42.00	51.00	4.50	1.39
MOR0430045/N*	43.00	52.00	4.50	1.40
MOR0440045/N*	44.00	53.00	4.50	1.44

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0450045/N*	45.00	54.00	4.50	1.45	MOR1240045/N	124.00	133.00	4.50	4.25
MOR0460045/N*	46.00	55.00	4.50	1.47	MOR1260045/N*	126.00	135.00	4.50	4.31
MOR0470045/N*	47.00	56.00	4.50	1.51	MOR1280045/N*	128.00	137.00	4.50	4.39
MOR0480045/N*	48.00	57.00	4.50	1.54	MOR1300045/N*	130.00	139.00	4.50	4.46
MOR0490045/N*	49.00	58.00	4.50	1.57	MOR1315045/N	131.50	140.50	4.50	4.49
MOR0500045/N*	50.00	59.00	4.50	1.60	MOR1345045/N	134.50	143.50	4.50	4.67
MOR0510045/N*	51.00	60.00	4.50	1.62	MOR1370045/N*	137.00	146.00	4.50	4.81
MOR0530045/N*	53.00	62.00	4.50	1.65	MOR1400045/N	140.00	149.00	4.50	4.99
MOR0560045/N*	56.00	65.00	4.50	1.79	MOR1405045/N*	140.50	149.50	4.50	4.99
MOR0570045/N*	57.00	66.00	4.50	1.80	MOR1500045/N*	150.00	159.00	4.50	5.57
MOR0600045/N*	60.00	69.00	4.50	1.90	MOR1530045/N*	153.00	162.00	4.50	5.67
MOR0610045/N*	61.00	70.00	4.50	1.94	MOR1550045/N*	155.00	164.00	4.50	5.75
MOR0630045/N	63.00	72.00	4.50	1.98	MOR1570045/N*	157.00	166.00	4.50	5.97
MOR0640045/N*	64.00	73.00	4.50	1.98	MOR1600045/N*	160.00	169.00	4.50	6.19
MOR0650045/N*	65.00	74.00	4.50	2.01	MOR1650045/N*	165.00	174.00	4.50	6.57
MOR0660045/N*	66.00	75.00	4.50	2.05	MOR1720045/N*	172.00	181.00	4.50	6.75
MOR0680045/N*	68.00	77.00	4.50	2.08	MOR1780045/N*	178.00	187.00	4.50	7.11
MOR0690045/N*	69.00	78.00	4.50	2.10	MOR1800045/N*	180.00	189.00	4.50	7.47
MOR0700045/N*	70.00	79.00	4.50	2.11	MOR1850045/N*	185.00	194.00	4.50	8.09
MOR0710045/N*	71.00	80.00	4.50	2.12	MOR1860045/N*	186.00	195.00	4.50	8.27
MOR0730045/N*	73.00	82.00	4.50	2.19	MOR1895045/N*	189.50	198.50	4.50	9.16
MOR0740045/N*	74.00	83.00	4.50	2.23	MOR1920045/N*	192.00	201.00	4.50	9.28
MOR0750045/N*	75.00	84.00	4.50	2.26	MOR2080045/N*	208.00	217.00	4.50	10.42
MOR0760045/N*	76.00	85.00	4.50	2.30	MOR2150045/N*	215.00	224.00	4.50	10.68
MOR0800045/N	80.00	89.00	4.50	2.55	MOR2185045/N*	218.50	227.50	4.50	10.96
MOR0810045/N	81.00	90.00	4.50	2.59	MOR2250045/N*	225.00	234.00	4.50	11.40
MOR0830045/N*	83.00	92.00	4.50	2.62	MOR2270045/N*	227.00	236.00	4.50	11.46
MOR0850045/N	85.00	94.00	4.50	2.66	MOR2500045/N*	250.00	259.00	4.50	12.94
MOR0860045/N*	86.00	95.00	4.50	2.69	MOR2670045/N*	267.00	276.00	4.50	13.40
MOR0890045/N*	89.00	98.00	4.50	2.71	MOR2800045/N*	280.00	289.00	4.50	14.38
MOR0900045/N*	90.00	99.00	4.50	2.77	MOR3150045/N*	315.00	324.00	4.50	19.19
MOR0920045/N	92.00	101.00	4.50	2.79	MOR0040050/N	4.00	14.00	5.00	0.25
MOR0935045/N*	93.50	102.50	4.50	2.88	MOR0050050/N*	5.00	15.00	5.00	0.25
MOR0950045/N*	95.00	104.00	4.50	2.91	MOR0060050/N	6.00	16.00	5.00	0.25
MOR0975045/N*	97.50	106.50	4.50	3.02	MOR0070050/N	7.00	17.00	5.00	0.25
MOR0980045/N*	98.00	107.00	4.50	3.02	MOR0080050/N	8.00	18.00	5.00	0.25
MOR0995045/N*	99.50	108.50	4.50	3.16	MOR0090050/N*	9.00	19.00	5.00	0.25
MOR1000045/N*	100.00	109.00	4.50	3.16	MOR0100050/N	10.00	20.00	5.00	0.25
MOR1005045/N*	100.50	109.50	4.50	3.16	MOR0110050/N*	11.00	21.00	5.00	0.25
MOR1010045/N	101.00	110.00	4.50	3.19	MOR0120050/N	12.00	22.00	5.00	0.25
MOR1035045/N*	103.50	112.50	4.50	3.27	MOR0130050/N*	13.00	23.00	5.00	0.25
MOR1050045/N	105.00	114.00	4.50	3.34	MOR0140050/N*	14.00	24.00	5.00	0.25
MOR1060045/N*	106.00	115.00	4.50	3.42	MOR0150050/N*	15.00	25.00	5.00	0.25
MOR1100045/N*	110.00	119.00	4.50	3.71	MOR0160050/N*	16.00	26.00	5.00	0.30
MOR1150045/N	115.00	124.00	4.50	3.85	MOR0170050/N*	17.00	27.00	5.00	0.30
MOR1180045/N*	118.00	127.00	4.50	3.95	MOR0180050/N	18.00	28.00	5.00	0.30
MOR1200045/N*	120.00	129.00	4.50	4.07	MOR0190050/N*	19.00	29.00	5.00	0.30
MOR1220045/N*	122.00	131.00	4.50	4.17	MOR0200050/N*	20.00	30.00	5.00	0.30

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0210050/N*	21.00	31.00	5.00	0.30
MOR0220050/N*	22.00	32.00	5.00	0.37
MOR0230050/N*	23.00	33.00	5.00	0.37
MOR0240050/N	24.00	34.00	5.00	0.37
MOR0250050/N*	25.00	35.00	5.00	0.47
MOR0260050/N	26.00	36.00	5.00	0.47
MOR0270050/N*	27.00	37.00	5.00	0.47
MOR0280050/N*	28.00	38.00	5.00	0.47
MOR0290050/N*	29.00	39.00	5.00	0.47
MOR0300050/N	30.00	40.00	5.00	0.47
MOR0310050/N*	31.00	41.00	5.00	0.56
MOR0320050/N*	32.00	42.00	5.00	0.56
MOR0330050/N*	33.00	43.00	5.00	0.56
MOR0340050/N*	34.00	44.00	5.00	0.56
MOR0350050/N	35.00	45.00	5.00	0.56
MOR0360050/N	36.00	46.00	5.00	0.58
MOR0370050/N	37.00	47.00	5.00	0.58
MOR0380050/N*	38.00	48.00	5.00	0.58
MOR0390050/N*	39.00	49.00	5.00	0.58
MOR0400050/N	40.00	50.00	5.00	0.58
MOR0410050/N	41.00	51.00	5.00	0.61
MOR0420050/N	42.00	52.00	5.00	0.61
MOR0430050/N	43.00	53.00	5.00	0.61
MOR0440050/N	44.00	54.00	5.00	0.61
MOR0450050/N	45.00	55.00	5.00	0.61
MOR0460050/N*	46.00	56.00	5.00	0.72
MOR0470050/N	47.00	57.00	5.00	0.72
MOR0480050/N*	48.00	58.00	5.00	0.72
MOR0490050/N*	49.00	59.00	5.00	0.72
MOR0500050/N	50.00	60.00	5.00	0.72
MOR0510050/N*	51.00	61.00	5.00	0.72
MOR0520050/N*	52.00	62.00	5.00	0.72
MOR0530050/N	53.00	63.00	5.00	0.73
MOR0540050/N	54.00	64.00	5.00	0.73
MOR0550050/N	55.00	65.00	5.00	0.73
MOR0560050/N	56.00	66.00	5.00	0.73
MOR0570050/N*	57.00	67.00	5.00	0.73
MOR0580050/N	58.00	68.00	5.00	0.73
MOR0590050/N	59.00	69.00	5.00	0.89
MOR0600050/N	60.00	70.00	5.00	0.89
MOR0610050/N*	61.00	71.00	5.00	1.04
MOR0620050/N	62.00	72.00	5.00	1.04
MOR0630050/N*	63.00	73.00	5.00	1.04
MOR0640050/N	64.00	74.00	5.00	1.04
MOR0650050/N	65.00	75.00	5.00	1.04
MOR0660050/N	66.00	76.00	5.00	1.08
MOR0670050/N	67.00	77.00	5.00	1.08
MOR0680050/N	68.00	78.00	5.00	1.08

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0690050/N*	69.00	79.00	5.00	1.08
MOR0700050/N	70.00	80.00	5.00	1.08
MOR0710050/N	71.00	81.00	5.00	1.10
MOR0720050/N	72.00	82.00	5.00	1.10
MOR0730050/N*	73.00	83.00	5.00	1.10
MOR0740050/N*	74.00	84.00	5.00	1.13
MOR0750050/N	75.00	85.00	5.00	1.90
MOR0760050/N*	76.00	86.00	5.00	1.13
MOR0770050/N*	77.00	87.00	5.00	1.13
MOR0780050/N	78.00	88.00	5.00	1.13
MOR0790050/N	79.00	89.00	5.00	1.14
MOR0800050/N	80.00	90.00	5.00	1.14
MOR0810050/N*	81.00	91.00	5.00	1.18
MOR0820050/N	82.00	92.00	5.00	1.18
MOR0830050/N*	83.00	93.00	5.00	1.18
MOR0840050/N*	84.00	94.00	5.00	1.18
MOR0850050/N	85.00	95.00	5.00	1.18
MOR0860050/N	86.00	96.00	5.00	1.22
MOR0870050/N*	87.00	97.00	5.00	1.22
MOR0880050/N	88.00	98.00	5.00	1.22
MOR0890050/N*	89.00	99.00	5.00	1.22
MOR0900050/N	90.00	100.00	5.00	1.22
MOR0910050/N	91.00	101.00	5.00	1.34
MOR0920050/N	92.00	102.00	5.00	1.34
MOR0930050/N*	93.00	103.00	5.00	1.48
MOR0940050/N*	94.00	104.00	5.00	1.48
MOR0950050/N	95.00	105.00	5.00	1.48
MOR0960050/N	96.00	106.00	5.00	1.48
MOR0970050/N*	97.00	107.00	5.00	1.48
MOR0980050/N*	98.00	108.00	5.00	1.48
MOR0990050/N*	99.00	109.00	5.00	1.48
MOR1000050/N	100.00	110.00	5.00	1.48
MOR1010050/N	101.00	111.00	5.00	1.57
MOR1020050/N	102.00	112.00	5.00	1.57
MOR1030050/N*	103.00	113.00	5.00	1.57
MOR1040050/N	104.00	114.00	5.00	1.57
MOR1050050/N	105.00	115.00	5.00	1.57
MOR1060050/N	106.00	116.00	5.00	1.57
MOR1070050/N*	107.00	117.00	5.00	1.57
MOR1080050/N	108.00	118.00	5.00	1.57
MOR1090050/N	109.00	119.00	5.00	1.57
MOR1100050/N	110.00	120.00	5.00	1.57
MOR1110050/N*	111.00	121.00	5.00	1.58
MOR1120050/N	112.00	122.00	5.00	1.58
MOR1130050/N*	113.00	123.00	5.00	1.67
MOR1140050/N	114.00	124.00	5.00	1.67
MOR1150050/N	115.00	125.00	5.00	1.67
MOR1160050/N	116.00	126.00	5.00	1.67

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR1170050/N*	117.00	127.00	5.00	1.67	MOR1650050/N	165.00	175.00	5.00	2.66
MOR1180050/N*	118.00	128.00	5.00	1.67	MOR1660050/N*	166.00	176.00	5.00	3.17
MOR1190050/N*	119.00	129.00	5.00	1.71	MOR1670050/N	167.00	177.00	5.00	3.17
MOR1200050/N	120.00	130.00	5.00	1.71	MOR1680050/N*	168.00	178.00	5.00	3.17
MOR1210050/N*	121.00	131.00	5.00	1.74	MOR1690050/N*	169.00	179.00	5.00	3.17
MOR1220050/N	122.00	132.00	5.00	3.09	MOR1700050/N	170.00	180.00	5.00	3.17
MOR1230050/N*	123.00	133.00	5.00	1.80	MOR1710050/N*	171.00	181.00	5.00	3.17
MOR1240050/N*	124.00	134.00	5.00	1.80	MOR1720050/N*	172.00	182.00	5.00	3.17
MOR1250050/N	125.00	135.00	5.00	1.80	MOR1730050/N	173.00	183.00	5.00	3.17
MOR1260050/N*	126.00	136.00	5.00	1.80	MOR1740050/N*	174.00	184.00	5.00	3.27
MOR1270050/N*	127.00	137.00	5.00	1.80	MOR1750050/N	175.00	185.00	5.00	3.27
MOR1280050/N*	128.00	138.00	5.00	1.80	MOR1760050/N*	176.00	186.00	5.00	3.27
MOR1290050/N*	129.00	139.00	5.00	1.80	MOR1770050/N*	177.00	187.00	5.00	3.27
MOR1300050/N	130.00	140.00	5.00	1.80	MOR1780050/N*	178.00	188.00	5.00	3.27
MOR1310050/N*	131.00	141.00	5.00	1.88	MOR1790050/N*	179.00	189.00	5.00	3.27
MOR1320050/N	132.00	142.00	5.00	1.88	MOR1800050/N	180.00	190.00	5.00	3.27
MOR1330050/N*	133.00	143.00	5.00	1.88	MOR1810050/N*	181.00	191.00	5.00	3.60
MOR1340050/N*	134.00	144.00	5.00	1.88	MOR1820050/N*	182.00	192.00	5.00	3.60
MOR1350050/N	135.00	145.00	5.00	1.88	MOR1830050/N*	183.00	193.00	5.00	3.60
MOR1360050/N	136.00	146.00	5.00	1.88	MOR1840050/N*	184.00	194.00	5.00	3.60
MOR1370050/N*	137.00	147.00	5.00	1.88	MOR1843050/N*	184.30	194.30	5.00	3.60
MOR1380050/N*	138.00	148.00	5.00	1.88	MOR1850050/N*	185.00	195.00	5.00	3.60
MOR1390050/N*	139.00	149.00	5.00	1.88	MOR1860050/N*	186.00	196.00	5.00	3.60
MOR1400050/N	140.00	150.00	5.00	1.88	MOR1870050/N	187.00	197.00	5.00	3.60
MOR1410050/N*	141.00	151.00	5.00	1.95	MOR1880050/N	188.00	198.00	5.00	3.60
MOR1420050/N*	142.00	152.00	5.00	1.95	MOR1890050/N*	189.00	199.00	5.00	3.60
MOR1430050/N*	143.00	153.00	5.00	1.95	MOR1900050/N	190.00	200.00	5.00	3.60
MOR1440050/N*	144.00	154.00	5.00	1.95	MOR1910050/N*	191.00	201.00	5.00	3.60
MOR1450050/N	145.00	155.00	5.00	1.99	MOR1920050/N*	192.00	202.00	5.00	3.60
MOR1460050/N*	146.00	156.00	5.00	1.99	MOR1930050/N*	193.00	203.00	5.00	3.60
MOR1470050/N*	147.00	157.00	5.00	1.99	MOR1940050/N*	194.00	204.00	5.00	3.60
MOR1480050/N	148.00	158.00	5.00	1.99	MOR1950050/N*	195.00	205.00	5.00	3.60
MOR1490050/N*	149.00	159.00	5.00	1.99	MOR1960050/N*	196.00	206.00	5.00	3.73
MOR1500050/N	150.00	160.00	5.00	1.99	MOR1970050/N*	197.00	207.00	5.00	3.73
MOR1510050/N*	151.00	161.00	5.00	2.42	MOR1980050/N*	198.00	208.00	5.00	3.73
MOR1520050/N	152.00	162.00	5.00	2.42	MOR1990050/N*	199.00	209.00	5.00	3.73
MOR1530050/N	153.00	163.00	5.00	2.42	MOR2000050/N	200.00	210.00	5.00	3.73
MOR1540050/N*	154.00	164.00	5.00	2.42	MOR2010050/N*	201.00	211.00	5.00	4.36
MOR1550050/N	155.00	165.00	5.00	2.42	MOR2020050/N*	202.00	212.00	5.00	4.36
MOR1560050/N*	156.00	166.00	5.00	2.42	MOR2030050/N*	203.00	213.00	5.00	4.36
MOR1570050/N*	157.00	167.00	5.00	2.42	MOR2040050/N*	204.00	214.00	5.00	4.36
MOR1580050/N	158.00	168.00	5.00	2.42	MOR2050050/N	205.00	215.00	5.00	4.36
MOR1590050/N*	159.00	169.00	5.00	2.42	MOR2060050/N*	206.00	216.00	5.00	4.87
MOR1600050/N	160.00	170.00	5.00	2.42	MOR2070050/N*	207.00	217.00	5.00	4.87
MOR1610050/N*	161.00	171.00	5.00	2.66	MOR2080050/N*	208.00	218.00	5.00	4.87
MOR1620050/N*	162.00	172.00	5.00	2.66	MOR2090050/N*	209.00	219.00	5.00	4.87
MOR1630050/N*	163.00	173.00	5.00	2.66	MOR2100050/N	210.00	220.00	5.00	4.87
MOR1640050/N*	164.00	174.00	5.00	2.66	MOR2110050/N*	211.00	221.00	5.00	5.25

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR2120050/N	212.00	222.00	5.00	5.25
MOR2130050/N*	213.00	223.00	5.00	5.25
MOR2140050/N*	214.00	224.00	5.00	5.25
MOR2150050/N	215.00	225.00	5.00	5.25
MOR2160050/N*	216.00	226.00	5.00	5.25
MOR2170050/N*	217.00	227.00	5.00	5.25
MOR2180050/N*	218.00	228.00	5.00	5.25
MOR2190050/N*	219.00	229.00	5.00	5.25
MOR2200050/N	220.00	230.00	5.00	5.25
MOR2210050/N*	221.00	231.00	5.00	5.52
MOR2220050/N*	222.00	232.00	5.00	5.52
MOR2230050/N*	223.00	233.00	5.00	5.54
MOR2240050/N*	224.00	234.00	5.00	5.54
MOR2250050/N	225.00	235.00	5.00	5.54
MOR2260050/N*	226.00	236.00	5.00	5.82
MOR2270050/N*	227.00	237.00	5.00	5.82
MOR2280050/N	228.00	238.00	5.00	5.82
MOR2290050/N*	229.00	239.00	5.00	5.82
MOR2300050/N	230.00	240.00	5.00	5.82
MOR2310050/N*	231.00	241.00	5.00	5.82
MOR2320050/N*	232.00	242.00	5.00	5.82
MOR2330050/N*	233.00	243.00	5.00	5.82
MOR2340050/N*	234.00	244.00	5.00	5.82
MOR2350050/N*	235.00	245.00	5.00	5.82
MOR2360050/N*	236.00	246.00	5.00	5.94
MOR2370050/N*	237.00	247.00	5.00	5.94
MOR2380050/N*	238.00	248.00	5.00	5.94
MOR2390050/N*	239.00	249.00	5.00	5.94
MOR2400050/N*	240.00	250.00	5.00	5.94
MOR2410050/N*	241.00	251.00	5.00	5.99
MOR2420050/N*	242.00	252.00	5.00	5.99
MOR2430050/N*	243.00	253.00	5.00	5.99
MOR2440050/N*	244.00	254.00	5.00	5.99
MOR2450050/N	245.00	255.00	5.00	5.99
MOR2460050/N*	246.00	256.00	5.00	6.12
MOR2470050/N*	247.00	257.00	5.00	6.12
MOR2480050/N	248.00	258.00	5.00	6.12
MOR2490050/N*	249.00	259.00	5.00	6.12
MOR2500050/N	250.00	260.00	5.00	6.12
MOR2510050/N*	251.00	261.00	5.00	6.25
MOR2520050/N*	252.00	262.00	5.00	6.25
MOR2530050/N*	253.00	263.00	5.00	6.25
MOR2540050/N*	254.00	264.00	5.00	6.25
MOR2550050/N*	255.00	265.00	5.00	6.25
MOR2560050/N*	256.00	266.00	5.00	6.55
MOR2570050/N*	257.00	267.00	5.00	6.55
MOR2580050/N*	258.00	268.00	5.00	6.55
MOR2590050/N*	259.00	269.00	5.00	6.55

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR2600050/N	260.00	270.00	5.00	6.55
MOR2610050/N*	261.00	271.00	5.00	6.55
MOR2620050/N*	262.00	272.00	5.00	6.55
MOR2630050/N*	263.00	273.00	5.00	6.55
MOR2640050/N*	264.00	274.00	5.00	6.55
MOR2650050/N*	265.00	275.00	5.00	6.55
MOR2660050/N*	266.00	276.00	5.00	7.02
MOR2670050/N*	267.00	277.00	5.00	7.02
MOR2680050/N	268.00	278.00	5.00	7.02
MOR2690050/N*	269.00	279.00	5.00	7.02
MOR2700050/N	270.00	280.00	5.00	7.02
MOR2710050/N*	271.00	281.00	5.00	7.02
MOR2720050/N*	272.00	282.00	5.00	7.02
MOR2730050/N*	273.00	283.00	5.00	7.02
MOR2740050/N*	274.00	284.00	5.00	7.02
MOR2750050/N*	275.00	285.00	5.00	7.02
MOR2760050/N*	276.00	286.00	5.00	7.79
MOR2770050/N*	277.00	287.00	5.00	7.79
MOR2780050/N*	278.00	288.00	5.00	7.79
MOR2790050/N*	279.00	289.00	5.00	7.79
MOR2800050/N*	280.00	290.00	5.00	7.79
MOR2810050/N*	281.00	291.00	5.00	7.79
MOR2820050/N*	282.00	292.00	5.00	7.79
MOR2830050/N*	283.00	293.00	5.00	7.79
MOR2840050/N*	284.00	294.00	5.00	7.79
MOR2850050/N*	285.00	295.00	5.00	7.79
MOR2860050/N*	286.00	296.00	5.00	7.79
MOR2870050/N*	287.00	297.00	5.00	7.79
MOR2880050/N*	288.00	298.00	5.00	7.79
MOR2890050/N*	289.00	299.00	5.00	7.79
MOR2900050/N	290.00	300.00	5.00	7.79
MOR2910050/N*	291.00	301.00	5.00	7.88
MOR2920050/N*	292.00	302.00	5.00	7.88
MOR2930050/N*	293.00	303.00	5.00	7.88
MOR2940050/N*	294.00	304.00	5.00	7.88
MOR2950050/N	295.00	305.00	5.00	7.88
MOR2960050/N*	296.00	306.00	5.00	7.88
MOR2970050/N*	297.00	307.00	5.00	7.88
MOR2980050/N*	298.00	308.00	5.00	7.88
MOR2990050/N*	299.00	309.00	5.00	7.88
MOR3000050/N	300.00	310.00	5.00	7.88
MOR3010050/N*	301.00	311.00	5.00	O/R
MOR3020050/N*	302.00	312.00	5.00	O/R
MOR3030050/N*	303.00	313.00	5.00	O/R
MOR3040050/N*	304.00	314.00	5.00	O/R
MOR3050050/N*	305.00	315.00	5.00	O/R
MOR3060050/N*	306.00	316.00	5.00	O/R
MOR3070050/N*	307.00	317.00	5.00	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR3080050/N*	308.00	318.00	5.00	O/R
MOR3090050/N*	309.00	319.00	5.00	O/R
MOR3100050/N	310.00	320.00	5.00	9.62
MOR3110050/N*	311.00	321.00	5.00	O/R
MOR3120050/N*	312.00	322.00	5.00	O/R
MOR3130050/N*	313.00	323.00	5.00	O/R
MOR3140050/N*	314.00	324.00	5.00	O/R
MOR3150050/N*	315.00	325.00	5.00	O/R
MOR3160050/N*	316.00	326.00	5.00	O/R
MOR3170050/N*	317.00	327.00	5.00	O/R
MOR3180050/N*	318.00	328.00	5.00	O/R
MOR3190050/N*	319.00	329.00	5.00	O/R
MOR3200050/N*	320.00	330.00	5.00	8.15
MOR3210050/N*	321.00	331.00	5.00	O/R
MOR3220050/N*	322.00	332.00	5.00	O/R
MOR3230050/N*	323.00	333.00	5.00	O/R
MOR3240050/N*	324.00	334.00	5.00	O/R
MOR3250050/N*	325.00	335.00	5.00	O/R
MOR3260050/N*	326.00	336.00	5.00	O/R
MOR3270050/N*	327.00	337.00	5.00	O/R
MOR3280050/N*	328.00	338.00	5.00	O/R
MOR3290050/N*	329.00	339.00	5.00	O/R
MOR3300050/N*	330.00	340.00	5.00	O/R
MOR3310050/N*	331.00	341.00	5.00	O/R
MOR3320050/N*	332.00	342.00	5.00	O/R
MOR3330050/N*	333.00	343.00	5.00	O/R
MOR3340050/N*	334.00	344.00	5.00	O/R
MOR3350050/N	335.00	345.00	5.00	O/R
MOR3360050/N*	336.00	346.00	5.00	O/R
MOR3370050/N*	337.00	347.00	5.00	O/R
MOR3380050/N*	338.00	348.00	5.00	O/R
MOR3390050/N*	339.00	349.00	5.00	O/R
MOR3400050/N	340.00	350.00	5.00	11.93
MOR3410050/N*	341.00	351.00	5.00	O/R
MOR3420050/N*	342.00	352.00	5.00	O/R
MOR3430050/N*	343.00	353.00	5.00	O/R
MOR3440050/N*	344.00	354.00	5.00	O/R
MOR3450050/N*	345.00	355.00	5.00	O/R
MOR3460050/N*	346.00	356.00	5.00	O/R
MOR3470050/N*	347.00	357.00	5.00	O/R
MOR3480050/N*	348.00	358.00	5.00	O/R
MOR3490050/N*	349.00	359.00	5.00	O/R
MOR3500050/N*	350.00	360.00	5.00	O/R
MOR3510050/N*	351.00	361.00	5.00	O/R
MOR3520050/N*	352.00	362.00	5.00	O/R
MOR3530050/N*	353.00	363.00	5.00	O/R
MOR3540050/N*	354.00	364.00	5.00	O/R
MOR3550050/N*	355.00	365.00	5.00	O/R

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR3560050/N*	356.00	366.00	5.00	O/R
MOR3570050/N*	357.00	367.00	5.00	O/R
MOR3580050/N*	358.00	368.00	5.00	O/R
MOR3590050/N*	359.00	369.00	5.00	O/R
MOR3600050/N*	360.00	370.00	5.00	O/R
MOR3610050/N*	361.00	371.00	5.00	O/R
MOR3620050/N*	362.00	372.00	5.00	O/R
MOR3630050/N*	363.00	373.00	5.00	O/R
MOR3640050/N*	364.00	374.00	5.00	O/R
MOR3650050/N	365.00	375.00	5.00	O/R
MOR3660050/N*	366.00	376.00	5.00	O/R
MOR3670050/N*	367.00	377.00	5.00	O/R
MOR3680050/N*	368.00	378.00	5.00	O/R
MOR3690050/N*	369.00	379.00	5.00	O/R
MOR3700050/N*	370.00	380.00	5.00	O/R
MOR3710050/N*	371.00	381.00	5.00	O/R
MOR3720050/N*	372.00	382.00	5.00	O/R
MOR3730050/N*	373.00	383.00	5.00	O/R
MOR3740050/N*	374.00	384.00	5.00	O/R
MOR3750050/N*	375.00	385.00	5.00	O/R
MOR3760050/N*	376.00	386.00	5.00	O/R
MOR3770050/N*	377.00	387.00	5.00	O/R
MOR3780050/N*	378.00	388.00	5.00	O/R
MOR3790050/N*	379.00	389.00	5.00	O/R
MOR3800050/N*	380.00	390.00	5.00	O/R
MOR3810050/N*	381.00	391.00	5.00	O/R
MOR3820050/N*	382.00	392.00	5.00	O/R
MOR3830050/N*	383.00	393.00	5.00	O/R
MOR3840050/N*	384.00	394.00	5.00	O/R
MOR3850050/N*	385.00	395.00	5.00	O/R
MOR3860050/N*	386.00	396.00	5.00	O/R
MOR3870050/N*	387.00	397.00	5.00	O/R
MOR3880050/N*	388.00	398.00	5.00	O/R
MOR3890050/N*	389.00	399.00	5.00	O/R
MOR3900050/N	390.00	400.00	5.00	O/R
MOR3910050/N*	391.00	401.00	5.00	O/R
MOR3920050/N*	392.00	402.00	5.00	O/R
MOR3930050/N*	393.00	403.00	5.00	O/R
MOR3940050/N*	394.00	404.00	5.00	O/R
MOR3950050/N*	395.00	405.00	5.00	O/R
MOR3960050/N*	396.00	406.00	5.00	O/R
MOR3970050/N*	397.00	407.00	5.00	O/R
MOR3980050/N*	398.00	408.00	5.00	O/R
MOR3990050/N*	399.00	409.00	5.00	O/R
MOR4000050/N*	400.00	410.00	5.00	O/R
MOR4270050/N*	427.00	437.00	5.00	O/R
MOR4290050/N*	429.00	439.00	5.00	O/R
MOR4500050/N*	450.00	460.00	5.00	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0412052/N*	41.20	51.60	5.20	O/R
MOR0247053/N*	24.70	35.30	5.30	O/R
MOR0400053/N*	40.00	50.60	5.30	O/R
MOR0414053/N*	41.40	52.00	5.30	O/R
MOR0425053/N*	42.50	53.10	5.30	O/R
MOR0437053/N*	43.70	54.30	5.30	O/R
MOR0462053/N*	46.20	56.80	5.30	O/R
MOR0475053/N*	47.50	58.10	5.30	O/R
MOR0487053/N*	48.70	59.30	5.30	O/R
MOR0500053/N*	50.00	60.60	5.30	O/R
MOR0515053/N*	51.50	62.10	5.30	O/R
MOR0530053/N	53.00	63.60	5.30	O/R
MOR0544053/N	54.40	65.00	5.30	O/R
MOR0545053/N*	54.50	65.10	5.30	O/R
MOR0560053/N*	56.00	66.60	5.30	O/R
MOR0580053/N*	58.00	68.60	5.30	O/R
MOR0600053/N*	60.00	70.60	5.30	O/R
MOR0615053/N*	61.50	72.10	5.30	O/R
MOR0630053/N*	63.00	73.60	5.30	O/R
MOR0650053/N*	65.00	75.60	5.30	O/R
MOR0670053/N*	67.00	77.60	5.30	O/R
MOR0679053/N*	67.90	78.50	5.30	O/R
MOR0690053/N*	69.00	79.60	5.30	O/R
MOR0710053/N*	71.00	81.60	5.30	O/R
MOR0730053/N*	73.00	83.60	5.30	O/R
MOR0746053/N*	74.60	85.20	5.30	O/R
MOR0750053/N*	75.00	85.60	5.30	O/R
MOR0775053/N*	77.50	88.10	5.30	O/R
MOR0797053/N*	79.70	90.30	5.30	O/R
MOR0800053/N*	80.00	90.60	5.30	O/R
MOR0825053/N*	82.50	93.10	5.30	O/R
MOR0850053/N*	85.00	95.60	5.30	O/R
MOR0875053/N*	87.50	98.10	5.30	O/R
MOR0896053/N*	89.60	100.20	5.30	O/R
MOR0900053/N	90.00	100.60	5.30	O/R
MOR0925053/N*	92.50	103.10	5.30	O/R
MOR0950053/N*	95.00	105.60	5.30	O/R
MOR0975053/N*	97.50	108.10	5.30	O/R
MOR1000053/N*	100.00	110.60	5.30	O/R
MOR1030053/N*	103.00	113.60	5.30	O/R
MOR1060053/N*	106.00	116.60	5.30	O/R
MOR1090053/N*	109.00	119.60	5.30	O/R
MOR1095053/N*	109.50	120.10	5.30	O/R
MOR1120053/N*	112.00	122.60	5.30	O/R
MOR1150053/N	115.00	125.60	5.30	4.17
MOR1174053/N*	117.40	128.00	5.30	O/R
MOR1180053/N*	118.00	128.60	5.30	O/R
MOR1200053/N*	120.00	130.60	5.30	O/R

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1206053/N*	120.60	131.20	5.30	O/R
MOR1220053/N*	122.00	132.60	5.30	O/R
MOR1238053/N*	123.80	134.40	5.30	O/R
MOR1250053/N*	125.00	135.60	5.30	O/R
MOR1270053/N*	127.00	137.60	5.30	O/R
MOR1280053/N*	128.00	138.60	5.30	O/R
MOR1295053/N*	129.50	140.10	5.30	O/R
MOR1301053/N*	130.10	140.70	5.30	O/R
MOR1320053/N*	132.00	142.60	5.30	O/R
MOR1333053/N*	133.30	143.90	5.30	O/R
MOR1360053/N*	136.00	146.60	5.30	O/R
MOR1365053/N*	136.50	147.10	5.30	O/R
MOR1397053/N*	139.70	150.30	5.30	O/R
MOR1400053/N*	140.00	150.60	5.30	O/R
MOR1428053/N*	142.80	153.40	5.30	O/R
MOR1450053/N*	145.00	155.60	5.30	O/R
MOR1460053/N*	146.00	156.60	5.30	O/R
MOR1492053/N*	149.20	159.80	5.30	O/R
MOR1500053/N*	150.00	160.60	5.30	O/R
MOR1550053/N*	155.00	165.60	5.30	O/R
MOR1600053/N*	160.00	170.60	5.30	O/R
MOR1613053/N*	161.30	171.90	5.30	O/R
MOR1650053/N*	165.00	175.60	5.30	O/R
MOR1677053/N*	167.70	178.30	5.30	O/R
MOR1700053/N*	170.00	180.60	5.30	O/R
MOR1740053/N*	174.00	184.60	5.30	O/R
MOR1750053/N*	175.00	185.60	5.30	O/R
MOR1800053/N*	180.00	190.60	5.30	O/R
MOR1850053/N*	185.00	195.60	5.30	O/R
MOR1900053/N*	190.00	200.60	5.30	O/R
MOR1950053/N*	195.00	205.60	5.30	O/R
MOR2000053/N*	200.00	210.60	5.30	O/R
MOR3420053/N*	342.00	352.66	5.30	21.25
MOR4814053/N*	481.40	492.00	5.30	O/R
MOR0860055/N*	86.00	97.00	5.50	O/R
MOR0242057/N*	24.20	35.60	5.70	1.24
MOR0393057/N	39.30	50.70	5.70	1.24
MOR0413057/N*	41.30	52.70	5.70	1.24
MOR0443057/N*	44.30	55.70	5.70	1.24
MOR0453057/N*	45.30	56.70	5.70	1.24
MOR0473057/N	47.30	58.70	5.70	1.24
MOR0493057/N	49.30	60.70	5.70	1.24
MOR0496057/N*	49.60	61.00	5.70	1.24
MOR0513057/N*	51.30	62.70	5.70	1.24
MOR0516057/N*	51.60	63.00	5.70	1.24
MOR0523057/N	52.30	63.70	5.70	1.24
MOR0526057/N	52.60	64.00	5.70	1.24
MOR0542057/N*	54.20	65.60	5.70	1.24

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0543057/N	54.30	65.70	5.70	1.24	MOR1196057/N	119.60	131.00	5.70	2.91
MOR0546057/N	54.60	66.00	5.70	1.24	MOR1243057/N	124.30	135.70	5.70	2.07
MOR0553057/N*	55.30	66.70	5.70	1.24	MOR1246057/N	124.60	136.00	5.70	2.07
MOR0556057/N	55.60	67.00	5.70	1.24	MOR1293057/N	129.30	140.70	5.70	2.07
MOR0573057/N	57.30	68.70	5.70	1.24	MOR1296057/N	129.60	141.00	5.70	2.07
MOR0576057/N*	57.60	69.00	5.70	1.24	MOR1316057/N	131.60	143.00	5.70	2.07
MOR0592057/N	59.20	70.60	5.70	1.24	MOR1343057/N	134.30	145.70	5.70	2.23
MOR0593057/N	59.30	70.70	5.70	1.24	MOR1346057/N*	134.60	146.00	5.70	2.23
MOR0596057/N	59.60	71.00	5.70	1.24	MOR1393057/N*	139.30	150.70	5.70	4.10
MOR0613057/N*	61.30	72.70	5.70	1.24	MOR1396057/N	139.60	151.00	5.70	2.23
MOR0616057/N*	61.60	73.00	5.70	1.24	MOR1443057/N	144.30	155.70	5.70	2.32
MOR0623057/N*	62.30	73.70	5.70	1.24	MOR1446057/N	144.60	156.00	5.70	2.32
MOR0626057/N	62.60	74.00	5.70	1.24	MOR1493057/N	149.30	160.70	5.70	3.22
MOR0643057/N	64.30	75.70	5.70	1.24	MOR1496057/N	149.60	161.00	5.70	3.22
MOR0646057/N	64.60	76.00	5.70	1.24	MOR1543057/N	154.30	165.70	5.70	3.38
MOR0666057/N*	66.60	78.00	5.70	1.24	MOR1593057/N	159.30	170.70	5.70	3.66
MOR0673057/N*	67.30	78.70	5.70	1.24	MOR1643057/N	164.30	175.70	5.70	3.94
MOR0692057/N	69.20	80.60	5.70	1.24	MOR1693057/N*	169.30	180.70	5.70	4.23
MOR0693057/N	69.30	80.70	5.70	1.24	MOR1743057/N*	174.30	185.70	5.70	4.50
MOR0696057/N	69.60	81.00	5.70	1.24	MOR1793057/N	179.30	190.70	5.70	4.79
MOR0706057/N	70.60	82.00	5.70	1.24	MOR1843057/N*	184.30	195.70	5.70	5.07
MOR0713057/N*	71.30	82.70	5.70	1.24	MOR1893057/N	189.30	200.70	5.70	5.07
MOR0743057/N	74.30	85.70	5.70	1.24	MOR1903057/N*	190.30	201.70	5.70	5.22
MOR0746057/N	74.60	86.00	5.70	1.24	MOR1943057/N	194.30	205.70	5.70	5.35
MOR0773057/N*	77.30	88.70	5.70	1.24	MOR1993057/N	199.30	210.70	5.70	5.59
MOR0793057/N	79.30	90.70	5.70	1.33	MOR2043057/N	204.30	215.70	5.70	5.91
MOR0796057/N	79.60	91.00	5.70	1.33	MOR2093057/N	209.30	220.70	5.70	6.10
MOR0813057/N*	81.30	92.70	5.70	1.33	MOR2153057/N*	215.30	226.70	5.70	6.32
MOR0841057/N*	84.10	95.50	5.70	1.33	MOR2193057/N	219.30	230.70	5.70	6.42
MOR0843057/N	84.30	95.70	5.70	1.39	MOR2293057/N*	229.30	240.70	5.70	6.60
MOR0846057/N	84.60	96.00	5.70	1.39	MOR2343057/N	234.30	245.70	5.70	6.74
MOR0873057/N	87.30	98.70	5.70	1.39	MOR2393057/N	239.30	250.70	5.70	6.77
MOR0893057/N	89.30	100.70	5.70	1.48	MOR2493057/N	249.30	260.70	5.70	7.11
MOR0896057/N	89.60	101.00	5.70	1.74	MOR2593057/N*	259.30	270.70	5.70	7.27
MOR0943057/N	94.30	105.70	5.70	3.07	MOR2693057/N	269.30	280.70	5.70	7.45
MOR0946057/N*	94.60	106.00	5.70	1.74	MOR2793057/N	279.30	290.70	5.70	7.96
MOR0973057/N	97.30	108.70	5.70	1.74	MOR2893057/N	289.30	300.70	5.70	8.29
MOR0993057/N	99.30	110.70	5.70	1.74	MOR2993057/N	299.30	310.70	5.70	8.81
MOR0996057/N	99.60	111.00	5.70	1.74	MOR3193057/N*	319.30	330.70	5.70	17.16
MOR1016057/N	101.60	113.00	5.70	1.74	MOR3293057/N	329.30	340.70	5.70	22.26
MOR1043057/N	104.30	115.70	5.70	1.79	MOR3393057/N*	339.30	350.70	5.70	O/R
MOR1046057/N*	104.60	116.00	5.70	1.79	MOR3493057/N	349.30	360.70	5.70	O/R
MOR1093057/N	109.30	120.70	5.70	1.79	MOR3593057/N*	359.30	370.70	5.70	O/R
MOR1096057/N*	109.60	121.00	5.70	1.79	MOR3703057/N*	370.30	381.70	5.70	O/R
MOR1116057/N	111.60	123.00	5.70	1.79	MOR3793057/N*	379.30	390.70	5.70	O/R
MOR1143057/N	114.30	125.70	5.70	2.07	MOR3993057/N*	399.30	410.70	5.70	O/R
MOR1146057/N	114.60	126.00	5.70	2.07	MOR4193057/N*	419.30	430.70	5.70	O/R
MOR1193057/N	119.30	130.70	5.70	2.07	MOR4393057/N*	439.30	450.70	5.70	O/R

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METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR4493057/N*	449.30	460.70	5.70	O/R
MOR4593057/N*	459.30	470.70	5.70	O/R
MOR4793057/N*	479.30	490.70	5.70	O/R
MOR4993057/N*	499.30	510.70	5.70	O/R
MOR5293057/N*	529.30	540.70	5.70	O/R
MOR5483057/N*	548.30	559.70	5.70	O/R
MOR7103057/N*	710.30	721.70	5.70	O/R
MOR7203057/N*	720.30	731.70	5.70	O/R
MOR0060060/N*	6.00	18.00	6.00	0.51
MOR0070060/N*	7.00	19.00	6.00	0.51
MOR0090060/N*	9.00	21.00	6.00	0.51
MOR0100060/N*	10.00	22.00	6.00	0.51
MOR0110060/N*	11.00	23.00	6.00	0.51
MOR0120060/N	12.00	24.00	6.00	0.51
MOR0130060/N*	13.00	25.00	6.00	0.51
MOR0140060/N*	14.00	26.00	6.00	0.51
MOR0150060/N*	15.00	27.00	6.00	0.51
MOR0160060/N	16.00	28.00	6.00	0.51
MOR0180060/N	18.00	30.00	6.00	0.51
MOR0190060/N*	19.00	31.00	6.00	0.51
MOR0195060/N*	19.50	31.50	6.00	0.51
MOR0200060/N*	20.00	32.00	6.00	0.51
MOR0210060/N*	21.00	33.00	6.00	0.51
MOR0220060/N*	22.00	34.00	6.00	0.51
MOR0230060/N*	23.00	35.00	6.00	0.51
MOR0235060/N*	23.50	35.50	6.00	0.51
MOR0240060/N	24.00	36.00	6.00	0.51
MOR0250060/N	25.00	37.00	6.00	0.51
MOR0260060/N*	26.00	38.00	6.00	0.65
MOR0270060/N*	27.00	39.00	6.00	0.65
MOR0280060/N*	28.00	40.00	6.00	0.65
MOR0290060/N*	29.00	41.00	6.00	0.65
MOR0300060/N*	30.00	42.00	6.00	0.65
MOR0310060/N*	31.00	43.00	6.00	1.06
MOR0320060/N*	32.00	44.00	6.00	1.06
MOR0330060/N*	33.00	45.00	6.00	1.06
MOR0340060/N	34.00	46.00	6.00	1.06
MOR0350060/N	35.00	47.00	6.00	1.06
MOR0360060/N*	36.00	48.00	6.00	1.06
MOR0370060/N	37.00	49.00	6.00	1.06
MOR0380060/N*	38.00	50.00	6.00	1.54
MOR0390060/N*	39.00	51.00	6.00	1.58
MOR0395060/N*	39.50	51.50	6.00	1.58
MOR0400060/N	40.00	52.00	6.00	1.58
MOR0410060/N*	41.00	53.00	6.00	1.62
MOR0415060/N*	41.50	53.50	6.00	1.63
MOR0420060/N*	42.00	54.00	6.00	1.66
MOR0430060/N*	43.00	55.00	6.00	1.69

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0440060/N*	44.00	56.00	6.00	1.72
MOR0445060/N*	44.50	56.50	6.00	1.72
MOR0450060/N	45.00	57.00	6.00	1.72
MOR0460060/N	46.00	58.00	6.00	2.26
MOR0470060/N*	47.00	59.00	6.00	1.80
MOR0475060/N*	47.50	59.50	6.00	1.82
MOR0480060/N	48.00	60.00	6.00	1.84
MOR0490060/N*	49.00	61.00	6.00	1.87
MOR0500060/N	50.00	62.00	6.00	1.94
MOR0510060/N*	51.00	63.00	6.00	1.98
MOR0520060/N*	52.00	64.00	6.00	2.01
MOR0530060/N*	53.00	65.00	6.00	2.05
MOR0540060/N*	54.00	66.00	6.00	2.08
MOR0550060/N	55.00	67.00	6.00	2.16
MOR0560060/N	56.00	68.00	6.00	2.23
MOR0570060/N*	57.00	69.00	6.00	2.30
MOR0580060/N	58.00	70.00	6.00	2.37
MOR0595060/N*	59.50	71.50	6.00	2.44
MOR0600060/N	60.00	72.00	6.00	2.52
MOR0610060/N	61.00	73.00	6.00	2.62
MOR0620060/N	62.00	74.00	6.00	2.70
MOR0630060/N	63.00	75.00	6.00	2.84
MOR0640060/N*	64.00	76.00	6.00	3.02
MOR0650060/N	65.00	77.00	6.00	3.16
MOR0660060/N	66.00	78.00	6.00	3.23
MOR0670060/N*	67.00	79.00	6.00	3.27
MOR0680060/N	68.00	80.00	6.00	3.31
MOR0690060/N*	69.00	81.00	6.00	3.34
MOR0700060/N	70.00	82.00	6.00	3.38
MOR0720060/N*	72.00	84.00	6.00	3.42
MOR0730060/N*	73.00	85.00	6.00	3.45
MOR0740060/N*	74.00	86.00	6.00	3.49
MOR0750060/N	75.00	87.00	6.00	3.49
MOR0760060/N	76.00	88.00	6.00	3.56
MOR0780060/N*	78.00	90.00	6.00	3.59
MOR0785060/N*	78.50	90.50	6.00	3.63
MOR0790060/N*	79.00	91.00	6.00	3.71
MOR0800060/N	80.00	92.00	6.00	3.74
MOR0810060/N*	81.00	93.00	6.00	3.81
MOR0815060/N*	81.50	93.50	6.00	3.85
MOR0840060/N	84.00	96.00	6.00	3.92
MOR0850060/N	85.00	97.00	6.00	3.95
MOR0860060/N	86.00	98.00	6.00	4.03
MOR0880060/N	88.00	100.00	6.00	4.13
MOR0900060/N	90.00	102.00	6.00	4.17
MOR0920060/N	92.00	104.00	6.00	4.21
MOR0930060/N*	93.00	105.00	6.00	4.25
MOR0950060/N	95.00	107.00	6.00	4.27

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0960060/N*	96.00	108.00	6.00	4.27	MOR1660060/N*	166.00	178.00	6.00	9.28
MOR0980060/N*	98.00	110.00	6.00	4.31	MOR1690060/N*	169.00	181.00	6.00	9.60
MOR0990060/N*	99.00	111.00	6.00	4.35	MOR1700060/N	170.00	182.00	6.00	9.71
MOR1000060/N*	100.00	112.00	6.00	4.35	MOR1720060/N*	172.00	184.00	6.00	9.96
MOR1010060/N*	101.00	113.00	6.00	4.39	MOR1750060/N*	175.00	187.00	6.00	10.24
MOR1030060/N*	103.00	115.00	6.00	4.43	MOR1760060/N*	176.00	188.00	6.00	10.32
MOR1040060/N	104.00	116.00	6.00	4.46	MOR1800060/N	180.00	192.00	6.00	10.42
MOR1045060/N*	104.50	116.50	6.00	4.49	MOR1820060/N*	182.00	194.00	6.00	10.60
MOR1050060/N	105.00	117.00	6.00	4.53	MOR1840060/N*	184.00	196.00	6.00	10.78
MOR1060060/N	106.00	118.00	6.00	4.57	MOR1850060/N	185.00	197.00	6.00	10.96
MOR1080060/N	108.00	120.00	6.00	4.67	MOR1860060/N*	186.00	198.00	6.00	11.04
MOR1100060/N	110.00	122.00	6.00	4.75	MOR1880060/N*	188.00	200.00	6.00	11.28
MOR1110060/N*	111.00	123.00	6.00	4.79	MOR1900060/N	190.00	202.00	6.00	11.50
MOR1120060/N*	112.00	124.00	6.00	4.81	MOR1912060/N*	191.20	203.20	6.00	11.62
MOR1140060/N	114.00	126.00	6.00	4.81	MOR1930060/N*	193.00	205.00	6.00	11.72
MOR1150060/N	115.00	127.00	6.00	4.89	MOR1950060/N	195.00	207.00	6.00	11.86
MOR1160060/N*	116.00	128.00	6.00	5.01	MOR1960060/N*	196.00	208.00	6.00	12.08
MOR1180060/N*	118.00	130.00	6.00	5.07	MOR1980060/N*	198.00	210.00	6.00	12.34
MOR1200060/N	120.00	132.00	6.00	5.25	MOR2000060/N	200.00	212.00	6.00	12.58
MOR1220060/N*	122.00	134.00	6.00	5.35	MOR2010060/N*	201.00	213.00	6.00	12.68
MOR1230060/N*	123.00	135.00	6.00	5.47	MOR2020060/N*	202.00	214.00	6.00	12.80
MOR1240060/N*	124.00	136.00	6.00	5.57	MOR2030060/N*	203.00	215.00	6.00	12.94
MOR1250060/N	125.00	137.00	6.00	5.67	MOR2035060/N*	203.50	215.50	6.00	13.04
MOR1280060/N	128.00	140.00	6.00	5.79	MOR2040060/N*	204.00	216.00	6.00	13.12
MOR1300060/N	130.00	142.00	6.00	5.85	MOR2050060/N*	205.00	217.00	6.00	13.20
MOR1320060/N*	132.00	144.00	6.00	6.07	MOR2080060/N	208.00	220.00	6.00	13.30
MOR1340060/N*	134.00	146.00	6.00	6.21	MOR2100060/N	210.00	222.00	6.00	13.48
MOR1350060/N	135.00	147.00	6.00	6.33	MOR2120060/N*	212.00	224.00	6.00	14.25
MOR1360060/N*	136.00	148.00	6.00	6.39	MOR2150060/N*	215.00	227.00	6.00	14.02
MOR1380060/N	138.00	150.00	6.00	6.47	MOR2160060/N*	216.00	228.00	6.00	14.09
MOR1392060/N*	139.20	151.20	6.00	6.51	MOR2170060/N*	217.00	229.00	6.00	14.16
MOR1400060/N*	140.00	152.00	6.00	6.55	MOR2180060/N*	218.00	230.00	6.00	14.24
MOR1420060/N	142.00	154.00	6.00	7.01	MOR2200060/N	220.00	232.00	6.00	14.38
MOR1450060/N*	145.00	157.00	6.00	7.33	MOR2210060/N*	221.00	233.00	6.00	14.45
MOR1460060/N	146.00	158.00	6.00	7.37	MOR2250060/N*	225.00	237.00	6.00	14.73
MOR1480060/N	148.00	160.00	6.00	7.45	MOR2260060/N*	226.00	238.00	6.00	14.81
MOR1500060/N	150.00	162.00	6.00	7.51	MOR2290060/N*	229.00	241.00	6.00	15.03
MOR1530060/N	153.00	165.00	6.00	7.65	MOR2300060/N*	230.00	242.00	6.00	15.09
MOR1540060/N*	154.00	166.00	6.00	7.83	MOR2350060/N*	235.00	247.00	6.00	15.28
MOR1550060/N*	155.00	167.00	6.00	7.91	MOR2360060/N*	236.00	248.00	6.00	15.31
MOR1555060/N*	155.50	167.50	6.00	8.05	MOR2370060/N*	237.00	249.00	6.00	15.35
MOR1560060/N*	156.00	168.00	6.00	8.19	MOR2375060/N*	237.50	249.50	6.00	15.39
MOR1570060/N*	157.00	169.00	6.00	8.34	MOR2380060/N*	238.00	250.00	6.00	15.42
MOR1580060/N	158.00	170.00	6.00	8.49	MOR2400060/N	240.00	252.00	6.00	15.45
MOR1590060/N*	159.00	171.00	6.00	8.56	MOR2420060/N*	242.00	254.00	6.00	15.53
MOR1600060/N	160.00	172.00	6.00	2.76	MOR2440060/N*	244.00	256.00	6.00	15.64
MOR1620060/N*	162.00	174.00	6.00	8.88	MOR2470060/N*	247.00	259.00	6.00	15.71
MOR1650060/N	165.00	177.00	6.00	8.59	MOR2490060/N*	249.00	261.00	6.00	15.77

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR2500060/N*	250.00	262.00	6.00	15.82
MOR2580060/N*	258.00	270.00	6.00	16.03
MOR2590060/N*	259.00	271.00	6.00	16.11
MOR2600060/N*	260.00	272.00	6.00	16.17
MOR2620060/N*	262.00	274.00	6.00	16.25
MOR2650060/N*	265.00	277.00	6.00	16.35
MOR2660060/N*	266.00	278.00	6.00	16.39
MOR2695060/N*	269.50	281.50	6.00	16.44
MOR2700060/N	270.00	282.00	6.00	16.53
MOR2780060/N*	278.00	290.00	6.00	17.07
MOR2800060/N*	280.00	292.00	6.00	17.25
MOR2840060/N*	284.00	296.00	6.00	17.39
MOR2850060/N*	285.00	297.00	6.00	17.43
MOR2880060/N*	288.00	300.00	6.00	17.55
MOR2900060/N	290.00	302.00	6.00	17.61
MOR2930060/N*	293.00	305.00	6.00	29.16
MOR2940060/N*	294.00	306.00	6.00	17.91
MOR2950060/N*	295.00	307.00	6.00	17.97
MOR3000060/N*	300.00	312.00	6.00	19.05
MOR3010060/N*	301.00	313.00	6.00	O/R
MOR3050060/N*	305.00	317.00	6.00	O/R
MOR3080060/N	308.00	320.00	6.00	19.34
MOR3100060/N*	310.00	322.00	6.00	O/R
MOR3110060/N*	311.00	323.00	6.00	O/R
MOR3150060/N*	315.00	327.00	6.00	O/R
MOR3200060/N*	320.00	332.00	6.00	O/R
MOR3240060/N*	324.00	336.00	6.00	O/R
MOR3250060/N*	325.00	337.00	6.00	O/R
MOR3300060/N*	330.00	342.00	6.00	O/R
MOR3330060/N*	333.00	345.00	6.00	O/R
MOR3350060/N*	335.00	347.00	6.00	O/R
MOR3380060/N*	338.00	350.00	6.00	O/R
MOR3400060/N*	340.00	352.00	6.00	O/R
MOR3450060/N	345.00	357.00	6.00	O/R
MOR3480060/N*	348.00	360.00	6.00	O/R
MOR3500060/N*	350.00	362.00	6.00	O/R
MOR3550060/N*	355.00	367.00	6.00	O/R
MOR3580060/N*	358.00	370.00	6.00	O/R
MOR3610060/N*	361.00	373.00	6.00	38.61
MOR3650060/N*	365.00	377.00	6.00	O/R
MOR3660060/N*	366.00	378.00	6.00	O/R
MOR3680060/N*	368.00	380.00	6.00	O/R
MOR3700060/N*	370.00	382.00	6.00	O/R
MOR3750060/N*	375.00	387.00	6.00	O/R
MOR3760060/N*	376.00	388.00	6.00	O/R
MOR3800060/N*	380.00	392.00	6.00	O/R
MOR3850060/N*	385.00	397.00	6.00	O/R
MOR3860060/N*	386.00	398.00	6.00	O/R

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR3880060/N*	388.00	400.00	6.00	O/R
MOR3890060/N*	389.00	401.00	6.00	O/R
MOR3900060/N*	390.00	402.00	6.00	O/R
MOR3920060/N*	392.00	404.00	6.00	O/R
MOR3940060/N*	394.00	406.00	6.00	O/R
MOR3950060/N*	395.00	407.00	6.00	O/R
MOR3980060/N*	398.00	410.00	6.00	O/R
MOR4000060/N*	400.00	412.00	6.00	O/R
MOR4150060/N*	415.00	427.00	6.00	O/R
MOR4220060/N*	422.00	434.00	6.00	O/R
MOR4290060/N*	429.00	441.00	6.00	O/R
MOR4450060/N*	445.00	457.00	6.00	O/R
MOR4460060/N*	446.00	458.00	6.00	O/R
MOR4480060/N*	448.00	460.00	6.00	O/R
MOR4500060/N*	450.00	462.00	6.00	O/R
MOR4530060/N*	453.00	465.00	6.00	O/R
MOR4700060/N*	470.00	482.00	6.00	O/R
MOR4780060/N*	478.00	490.00	6.00	O/R
MOR4800060/N*	480.00	492.00	6.00	O/R
MOR4830060/N*	483.00	495.00	6.00	O/R
MOR4860060/N*	486.00	498.00	6.00	O/R
MOR4890060/N*	489.00	501.00	6.00	O/R
MOR5000060/N*	500.00	512.00	6.00	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
MOR5200060/N*	520.00	532.00	6.00	O/R
MOR5220060/N*	522.00	534.00	6.00	O/R
MOR5300060/N*	530.00	542.00	6.00	O/R
MOR5400060/N*	540.00	552.00	6.00	O/R
MOR5440060/N*	544.00	556.00	6.00	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
MOR5690060/N*	569.00	581.00	6.00	O/R
MOR5750060/N*	575.00	587.00	6.00	O/R
MOR5790060/N*	579.00	591.00	6.00	O/R
MOR6830060/N*	683.00	695.00	6.00	O/R
MOR1147069/N*	114.70	128.50	6.90	O/R
MOR1200069/N*	120.00	133.80	6.90	O/R
MOR1246069/N*	124.60	138.40	6.90	O/R
MOR1345069/N*	134.50	148.30	6.90	O/R
MOR1556069/N*	155.60	169.40	6.90	O/R
MOR1595069/N*	159.50	173.30	6.90	O/R
MOR1619069/N*	161.90	175.70	6.90	O/R
MOR1667069/N	166.70	180.50	6.90	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR1683069/N*	168.30	182.10	6.90	O/R	MOR2800070/N*	280.00	294.00	7.00	O/R
MOR1746069/N*	174.60	188.40	6.90	O/R	MOR2900070/N*	290.00	304.00	7.00	O/R
MOR1810069/N*	181.00	194.80	6.90	O/R	MOR3000070/N	300.00	314.00	7.00	O/R
MOR1873069/N*	187.30	201.10	6.90	O/R	MOR3070070/N*	307.00	321.00	7.00	O/R
MOR1937069/N*	193.70	207.50	6.90	O/R	MOR3100070/N	310.00	324.00	7.00	16.54
MOR2000069/N*	200.00	213.80	6.90	O/R	MOR3150070/N*	315.00	329.00	7.00	O/R
MOR2089069/N*	208.90	222.70	6.90	O/R	MOR3250070/N*	325.00	339.00	7.00	O/R
MOR2216069/N*	221.60	235.40	6.90	O/R	MOR3350070/N*	335.00	349.00	7.00	O/R
MOR2343069/N*	234.30	248.10	6.90	O/R	MOR3450070/N*	345.00	359.00	7.00	O/R
MOR2470069/N*	247.00	260.80	6.90	O/R	MOR3550070/N*	355.00	369.00	7.00	O/R
MOR2597069/N*	259.70	273.50	6.90	O/R	MOR3650070/N	365.00	379.00	7.00	O/R
MOR2724069/N*	272.40	286.20	6.90	O/R	MOR3750070/N*	375.00	389.00	7.00	O/R
MOR2851069/N*	285.10	298.90	6.90	O/R	MOR3870070/N*	387.00	401.00	7.00	O/R
MOR2978069/N*	297.80	311.60	6.90	O/R	MOR3930070/N*	393.00	407.00	7.00	O/R
MOR3105069/N*	310.50	324.30	6.90	O/R	MOR4000070/N*	400.00	414.00	7.00	O/R
MOR3232069/N*	323.20	337.00	6.90	O/R	MOR4050070/N*	405.00	419.00	7.00	O/R
MOR3359069/N	335.90	349.70	6.90	O/R	MOR4052070/N*	405.20	419.20	7.00	O/R
MOR4814069/N*	481.40	495.20	6.90	O/R	MOR4120070/N*	412.00	426.00	7.00	O/R
MOR0190070/N*	19.00	33.00	7.00	O/R	MOR4250070/N*	425.00	439.00	7.00	O/R
MOR0330070/N*	33.00	47.00	7.00	O/R	MOR4370070/N*	437.00	451.00	7.00	O/R
MOR0400070/N*	40.00	54.00	7.00	O/R	MOR4500070/N*	450.00	464.00	7.00	O/R
MOR0550070/N*	55.00	69.00	7.00	O/R	MOR4570070/N*	457.00	471.00	7.00	O/R
MOR0580070/N*	58.00	72.00	7.00	O/R	MOR4572070/N*	457.20	471.20	7.00	O/R
MOR0590070/N*	59.00	73.00	7.00	O/R	MOR4620070/N*	462.00	476.00	7.00	O/R
MOR0700070/N*	70.00	84.00	7.00	O/R	MOR4750070/N*	475.00	489.00	7.00	O/R
MOR0850070/N*	85.00	99.00	7.00	O/R	MOR4800070/N*	480.00	494.00	7.00	O/R
MOR0900070/N*	90.00	104.00	7.00	O/R	MOR4870070/N*	487.00	501.00	7.00	O/R
MOR0920070/N*	92.00	106.00	7.00	O/R	MOR4946070/N*	494.60	508.60	7.00	O/R
MOR0980070/N*	98.00	112.00	7.00	O/R	MOR4946070/N*	494.67	508.67	7.00	O/R
MOR1050070/N*	105.00	119.00	7.00	O/R	MOR5000070/N*	500.00	514.00	7.00	O/R
MOR1350070/N*	135.00	149.00	7.00	O/R	MOR5150070/N*	515.00	529.00	7.00	O/R
MOR1550070/N*	155.00	169.00	7.00	O/R	MOR5160070/N*	516.00	530.00	7.00	O/R
MOR1746070/N*	174.60	188.60	7.00	O/R	MOR5300070/N*	530.00	544.00	7.00	O/R
MOR1991070/N*	199.10	213.10	7.00	O/R	MOR5450070/N*	545.00	559.00	7.00	O/R
MOR2060070/N*	206.00	220.00	7.00	O/R	MOR5454070/N*	545.40	559.40	7.00	O/R
MOR2090070/N*	209.00	223.00	7.00	O/R	MOR5454770/N*	545.47	559.47	7.00	O/R
MOR2120070/N*	212.00	226.00	7.00	O/R	MOR5600070/N*	560.00	574.00	7.00	O/R
MOR2180070/N*	218.00	232.00	7.00	O/R	MOR5800070/N*	580.00	594.00	7.00	O/R
MOR2240070/N*	224.00	238.00	7.00	O/R	MOR5962070/N*	596.20	610.20	7.00	O/R
MOR2300070/N*	230.00	244.00	7.00	O/R	MOR5962770/N*	596.27	610.27	7.00	O/R
MOR2350070/N	235.00	249.00	7.00	O/R	MOR6000070/N*	600.00	614.00	7.00	O/R
MOR2360070/N	236.00	250.00	7.00	O/R	MOR6150070/N*	615.00	629.00	7.00	O/R
MOR2430070/N*	243.00	257.00	7.00	O/R	MOR6300070/N*	630.00	644.00	7.00	O/R
MOR2500070/N*	250.00	264.00	7.00	O/R	MOR6470070/N*	647.00	661.00	7.00	O/R
MOR2580070/N	258.00	272.00	7.00	O/R	MOR6470770/N*	647.07	661.07	7.00	O/R
MOR2650070/N*	265.00	279.00	7.00	O/R	MOR6500070/N*	650.00	664.00	7.00	O/R
MOR2700070/N*	270.00	284.00	7.00	O/R	MOR6700070/N*	670.00	684.00	7.00	O/R
MOR2720070/N*	272.00	286.00	7.00	O/R	MOR0160080/N*	16.00	32.00	8.00	O/R

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0250080/N*	25.00	41.00	8.00	O/R
MOR0310080/N*	31.00	47.00	8.00	O/R
MOR0350080/N*	35.00	51.00	8.00	O/R
MOR0370080/N*	37.00	53.00	8.00	O/R
MOR0480080/N*	48.00	64.00	8.00	O/R
MOR0500080/N*	50.00	66.00	8.00	O/R
MOR0540080/N*	54.00	70.00	8.00	O/R
MOR0650080/N*	65.00	81.00	8.00	O/R
MOR0690080/N*	69.00	85.00	8.00	O/R
MOR0700080/N	70.00	86.00	8.00	O/R
MOR0760080/N*	76.00	92.00	8.00	O/R
MOR0800080/N*	80.00	96.00	8.00	O/R
MOR0850080/N*	85.00	101.00	8.00	O/R
MOR0920080/N*	92.00	108.00	8.00	O/R
MOR1000080/N	100.00	116.00	8.00	5.97
MOR1120080/N*	112.00	128.00	8.00	O/R
MOR1270080/N*	127.00	143.00	8.00	O/R
MOR1300080/N*	130.00	146.00	8.00	O/R
MOR1460080/N*	146.00	162.00	8.00	O/R
MOR1650080/N	165.00	181.00	8.00	O/R
MOR2000080/N	200.00	216.00	8.00	O/R
MOR2100080/N	210.00	226.00	8.00	O/R
MOR2300080/N*	230.00	246.00	8.00	O/R
MOR2800080/N*	280.00	296.00	8.00	O/R
MOR3100080/N*	310.00	326.00	8.00	O/R
MOR3200080/N*	320.00	336.00	8.00	O/R
MOR3300080/N*	330.00	346.00	8.00	O/R
MOR4000080/N*	400.00	416.00	8.00	O/R
MOR4350080/N*	435.00	451.00	8.00	O/R
MOR4540080/N*	454.00	470.00	8.00	O/R
MOR6000080/N*	600.00	616.00	8.00	O/R
MOR1441084/N	144.10	160.90	8.40	6.87
MOR1491084/N*	149.10	165.90	8.40	8.52
MOR1495084/N	149.50	166.30	8.40	8.52
MOR1541084/N*	154.10	170.90	8.40	8.52
MOR1545084/N*	154.50	171.30	8.40	8.52
MOR1591084/N	159.10	175.90	8.40	8.52
MOR1595084/N*	159.50	176.30	8.40	8.52
MOR1641084/N	164.10	180.90	8.40	8.52
MOR1645084/N*	164.50	181.30	8.40	15.82
MOR1691084/N*	169.10	185.90	8.40	15.82
MOR1695084/N*	169.50	186.30	8.40	15.82
MOR1741084/N	174.10	190.90	8.40	16.17
MOR1745084/N*	174.50	191.30	8.40	16.17
MOR1791084/N*	179.10	195.90	8.40	18.33
MOR1795084/N*	179.50	196.30	8.40	18.34
MOR1841084/N*	184.10	200.90	8.40	19.77
MOR1845084/N*	184.50	201.30	8.40	19.77

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1848084/N*	184.80	201.60	8.40	19.77
MOR1891084/N*	189.10	205.90	8.40	19.77
MOR1895084/N*	189.50	206.30	8.40	19.77
MOR1941084/N*	194.10	210.90	8.40	19.77
MOR1945084/N*	194.50	211.30	8.40	20.43
MOR1991084/N	199.10	215.90	8.40	20.49
MOR1995084/N	199.50	216.30	8.40	20.72
MOR2041084/N*	204.10	220.90	8.40	20.84
MOR2045084/N*	204.50	221.30	8.40	20.84
MOR2085084/N*	208.50	225.30	8.40	20.84
MOR2091084/N*	209.10	225.90	8.40	21.57
MOR2094084/N*	209.40	226.20	8.40	21.57
MOR2095084/N	209.50	226.30	8.40	21.57
MOR2145084/N	214.50	231.30	8.40	21.76
MOR2191084/N*	219.10	235.90	8.40	21.93
MOR2195084/N	219.50	236.30	8.40	22.03
MOR2245084/N*	224.50	241.30	8.40	22.21
MOR2291084/N*	229.10	245.90	8.40	22.46
MOR2295084/N*	229.50	246.30	8.40	23.25
MOR2341084/N	234.10	250.90	8.40	23.72
MOR2345084/N*	234.50	251.30	8.40	24.17
MOR2391084/N*	239.10	255.90	8.40	24.44
MOR2395084/N*	239.50	256.30	8.40	24.59
MOR2445084/N*	244.50	261.30	8.40	25.05
MOR2491084/N*	249.10	265.90	8.40	25.16
MOR2495084/N*	249.50	266.30	8.40	O/R
MOR2545084/N*	254.50	271.30	8.40	O/R
MOR2595084/N	259.50	276.30	8.40	O/R
MOR2645084/N*	264.50	281.30	8.40	O/R
MOR2695084/N*	269.50	286.30	8.40	25.96
MOR2745084/N	274.50	291.30	8.40	O/R
MOR2795084/N*	279.50	296.30	8.40	O/R
MOR2845084/N	284.50	301.30	8.40	O/R
MOR2895084/N*	289.50	306.30	8.40	O/R
MOR2945084/N*	294.50	311.30	8.40	O/R
MOR2995084/N	299.50	316.30	8.40	57.98
MOR3095084/N	309.50	326.30	8.40	34.34
MOR3100084/N*	310.00	316.80	8.40	27.30
MOR3145084/N*	314.50	331.30	8.40	O/R
MOR3195084/N*	319.50	336.30	8.40	O/R
MOR3300084/N	330.00	346.80	8.40	O/R
MOR3345084/N	334.50	351.30	8.40	O/R
MOR3395084/N*	339.50	356.30	8.40	O/R
MOR3545084/N*	354.50	371.30	8.40	O/R
MOR3595084/N*	359.50	376.30	8.40	O/R
MOR3745084/N*	374.50	391.30	8.40	O/R
MOR3845084/N	384.50	401.30	8.40	O/R
MOR3895084/N*	389.50	406.30	8.40	29.26

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

METRIC O'RINGS - NBR 70A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR3995084/N*	399.50	416.30	8.40	O/R
MOR4095084/N*	409.50	426.30	8.40	60.64
MOR0960090/N*	96.00	114.00	9.00	17.57
MOR0320100/N*	32.00	52.00	10.00	O/R
MOR0400100/N*	40.00	60.00	10.00	O/R
MOR1000100/N*	100.00	120.00	10.00	O/R
MOR1050100/N*	105.00	125.00	10.00	O/R
MOR1140100/N*	114.00	134.00	10.00	O/R
MOR1400100/N*	140.00	160.00	10.00	19.60

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1450100/N*	145.00	165.00	10.00	O/R
MOR1550100/N*	155.00	175.00	10.00	20.09
MOR1750100/N*	175.00	195.00	10.00	13.07
MOR2000100/N	200.00	220.00	10.00	20.60
MOR2800100/N*	280.00	300.00	10.00	29.96
MOR3000100/N*	300.00	320.00	10.00	O/R
MOR4200100/N*	420.00	440.00	10.00	O/R
MOR1550175/N*	155.00	190.00	17.50	O/R
MOR3550200/N*	355.00	395.00	20.00	O/R

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

JAPANESE INDUSTRIAL STANDARD O'RING TO JIS B2401

JIS 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
P 25.5			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
P 30			29.7	±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

JIS 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
P 48A			47.6	±0.45
P 50A			49.6	±0.45
P 52			51.6	±0.47
P 53			52.6	±0.48
P 55			54.6	±0.49
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			101.6	±0.85
P 105			104.6	±0.87
P 110			109.6	±0.91
P 112			111.6	±0.92
P 115			114.6	±0.94
P 120			119.6	±0.98
P 125			124.6	±1.01
P 130			129.6	±1.05
P 132			131.6	±1.06
P 135			134.6	±1.09
P 140			139.6	±1.12
P 145			144.6	±1.16
P 150			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

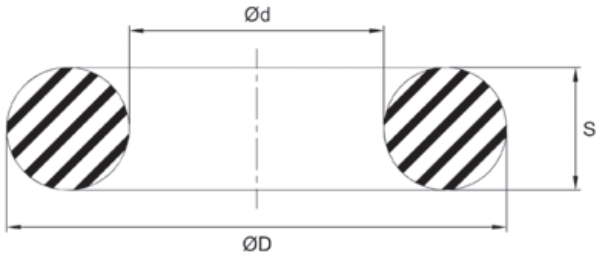
JIS B 2401	Thickness W (mm)		Inner Diameter d (mm)	
P 200			199.5	±1.55
P 205			204.5	±1.58
P 209			208.5	±1.61
P 210			209.5	±1.62
P 215			214.5	±1.65
P 220			219.5	±1.68
P 225			224.5	±1.71
P 230			229.5	±1.75
P 235			234.5	±1.78
P 240			239.5	±1.81
P 245	8.4	±0.15	244.5	±1.84
P 250			249.5	±1.88
P 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
G 25			24.4	±0.25
G 30			29.4	±0.29
G 35			34.4	±0.33
G 40			39.4	±0.37
G 45			44.4	±0.41
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

JAPANESE INDUSTRIAL STANDARD O'RING TO JIS B2401

JIS B 2401	Thickness W (mm)		Inner Diameter d (mm)		JIS B 2401	Thickness W (mm)		Inner Diameter d (mm)		JIS 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

METRIC O'RINGS

Nitrile NBR 90A



Temperature: -30/250F [-34/121C] **Pressure:**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0050015/N90	5.00	8.00	1.50	0.17	MOR0120020/N90	12.00	16.00	2.00	0.17
MOR0110015/N90*	11.00	14.00	1.50	0.17	MOR0140020/N90	14.00	18.00	2.00	0.17
MOR0120015/N90	12.00	15.00	1.50	0.39	MOR0160020/N90	16.00	20.00	2.00	0.19
MOR0130015/N90	13.00	16.00	1.50	0.19	MOR0190020/N90	19.00	23.00	2.00	0.24
MOR0160015/N90	16.00	19.00	1.50	0.21	MOR0200020/N90	20.00	24.00	2.00	0.28
MOR0270015/N90	27.00	30.00	1.50	0.85	MOR0250020/N90	25.00	29.00	2.00	0.62
MOR0022016/N90	2.20	5.40	1.60	0.32	MOR0420020/N90*	42.00	46.00	2.00	1.13
MOR0031016/N90	3.10	6.30	1.60	0.32	MOR0500020/N90	50.00	54.00	2.00	2.79
MOR0041016/N90	4.10	7.30	1.60	0.36	MOR0620020/N90*	62.00	68.00	2.00	1.67
MOR0071016/N90	7.10	10.30	1.60	0.39	MOR0650020/N90*	65.00	69.00	2.00	1.73
MOR0091016/N90	9.10	12.30	1.60	0.40	MOR0700020/N90*	70.00	74.00	2.00	1.30
MOR0101016/N90	10.10	13.30	1.60	0.40	MOR0710020/N90	71.00	75.00	2.00	1.86
MOR0131016/N90	13.10	16.30	1.60	0.44	MOR1145020/N90*	114.50	118.50	2.00	2.54
MOR0067017/N90*	6.70	10.10	1.70	0.17	MOR0193022/N90*	19.30	23.70	2.20	0.77
MOR0133018/N90*	13.30	16.90	1.80	2.83	MOR0043024/N90	4.30	9.10	2.40	0.25
MOR0028019/N90	2.80	6.60	1.90	0.07	MOR0053024/N90	5.30	10.10	2.40	0.25
MOR0034019/N90*	3.40	7.20	1.90	0.25	MOR0056024/N90	5.60	10.40	2.40	0.25
MOR0038019/N90	3.80	7.60	1.90	0.07	MOR0076024/N90	7.60	12.40	2.40	0.29
MOR0042019/N90	4.20	8.00	1.90	0.31	MOR0083024/N90	8.30	13.10	2.40	0.36
MOR0048019/N90	4.80	8.60	1.90	0.08	MOR0086024/N90	8.60	13.40	2.40	0.39
MOR0057019/N90*	5.70	9.50	1.90	0.25	MOR0093024/N90	9.30	14.10	2.40	0.28
MOR0058019/N90	5.80	9.60	1.90	0.08	MOR0098024/N90	9.80	14.60	2.40	0.32
MOR0064019/N90*	6.40	10.20	1.90	0.17	MOR0103024/N90*	10.30	15.10	2.40	0.40
MOR0068019/N90	6.80	10.60	1.90	0.19	MOR0106024/N90*	10.60	15.40	2.40	0.40
MOR0078019/N90	7.80	11.60	1.90	0.20	MOR0108024/N90	10.80	15.60	2.40	0.39
MOR0080019/N90*	8.00	11.80	1.90	0.19	MOR0110024/N90	11.00	15.80	2.40	0.33
MOR0088019/N90	8.80	12.60	1.90	0.20	MOR0113024/N90	11.30	16.10	2.40	0.19
MOR0089019/N90	8.90	12.70	1.90	0.37	MOR0118024/N90	11.80	16.60	2.40	0.33
MOR0098019/N90	9.80	13.60	1.90	0.21	MOR0123024/N90	12.30	17.10	2.40	0.44
MOR0030020/N90*	3.00	7.00	2.00	0.07	MOR0128024/N90	12.80	17.60	2.40	0.33
MOR0040020/N90	4.00	8.00	2.00	0.09	MOR0130024/N90*	13.00	17.80	2.40	0.20
MOR0050020/N90	5.00	9.00	2.00	0.20	MOR0133024/N90	13.30	18.10	2.40	0.45
MOR0060020/N90	6.00	10.00	2.00	0.16	MOR0138024/N90	13.80	18.60	2.40	0.44
MOR0070020/N90	7.00	11.00	2.00	0.33	MOR0143024/N90	14.30	19.10	2.40	0.20
MOR0080020/N90	8.00	12.00	2.00	0.16	MOR0148024/N90	14.80	19.60	2.40	0.44
MOR0090020/N90	9.00	13.00	2.00	0.16	MOR0153024/N90	15.30	20.10	2.40	0.35
MOR0100020/N90	10.00	14.00	2.00	0.17	MOR0156024/N90*	15.60	20.40	2.40	0.37
MOR0110020/N90*	11.00	15.00	2.00	0.17	MOR0158024/N90	15.80	20.60	2.40	0.44

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

METRIC O'RINGS - NBR 90A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0163024/N90	16.30	21.10	2.40	0.50
MOR0168024/N90*	16.80	21.60	2.40	0.45
MOR0173024/N90	17.30	22.10	2.40	0.50
MOR0178024/N90	17.80	22.60	2.40	0.45
MOR0183024/N90	18.30	23.10	2.40	0.64
MOR0188024/N90*	18.80	23.60	2.40	0.45
MOR0193024/N90	19.30	24.10	2.40	0.68
MOR0196024/N90	19.60	24.40	2.40	0.66
MOR0198024/N90	19.80	24.60	2.40	0.60
MOR0203024/N90	20.30	25.10	2.40	0.81
MOR0208024/N90	20.80	25.60	2.40	0.76
MOR0216024/N90*	21.60	26.40	2.40	0.52
MOR0218024/N90	21.80	26.60	2.40	0.62
MOR0100025/N90	10.00	15.00	2.50	0.17
MOR0110025/N90	11.00	16.00	2.50	0.47
MOR0120025/N90	12.00	17.00	2.50	0.37
MOR0130025/N90	13.00	18.00	2.50	0.20
MOR0140025/N90	14.00	19.00	2.50	0.20
MOR0150025/N90	15.00	20.00	2.50	0.29
MOR0160025/N90	16.00	21.00	2.50	0.32
MOR0170025/N90	17.00	22.00	2.50	0.32
MOR0180025/N90	18.00	23.00	2.50	0.33
MOR0190025/N90	19.00	24.00	2.50	0.36
MOR0220025/N90	22.00	27.00	2.50	0.61
MOR0240025/N90*	24.00	29.00	2.50	0.88
MOR0250025/N90	25.00	30.00	2.50	0.94
MOR0760025/N90*	76.00	81.00	2.50	3.56
MOR1200025/N90*	120.00	125.00	2.50	2.31
MOR1400025/N90*	140.00	145.00	2.50	3.69
MOR0222026/N90	22.20	27.40	2.60	0.32
MOR0090030/N90	9.00	15.00	3.00	0.19
MOR0100030/N90	10.00	16.00	3.00	0.19
MOR0110030/N90	11.00	17.00	3.00	0.19
MOR0170030/N90*	17.00	23.00	3.00	0.64
MOR0180030/N90*	18.00	24.00	3.00	0.69
MOR0190030/N90	19.00	25.00	3.00	0.88
MOR0192030/N90*	19.20	25.20	3.00	0.89
MOR0200030/N90	20.00	26.00	3.00	0.90
MOR0220030/N90	22.00	28.00	3.00	0.93
MOR0222030/N90*	22.20	28.20	3.00	0.97
MOR0230030/N90*	23.00	29.00	3.00	1.00
MOR0240030/N90	24.00	30.00	3.00	0.93
MOR0250030/N90	25.00	31.00	3.00	1.00
MOR0262030/N90	26.20	32.20	3.00	1.16
MOR0270030/N90	27.00	33.00	3.00	1.21
MOR0280030/N90	28.00	34.00	3.00	1.24
MOR0300030/N90	30.00	36.00	3.00	0.90
MOR0320030/N90	32.00	38.00	3.00	0.93

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0330030/N90	33.00	39.00	3.00	0.93
MOR0342030/N90	34.20	40.20	3.00	0.93
MOR0350030/N90	35.00	41.00	3.00	0.93
MOR0360030/N90	36.00	42.00	3.00	1.20
MOR0380030/N90	38.00	44.00	3.00	1.13
MOR0400030/N90	40.00	46.00	3.00	1.60
MOR0422030/N90	42.20	48.20	3.00	1.61
MOR0450030/N90*	45.00	51.00	3.00	1.65
MOR0495030/N90	49.50	55.50	3.00	1.40
MOR0500030/N90	50.00	56.00	3.00	1.66
MOR0545030/N90*	54.50	60.50	3.00	1.74
MOR0560030/N90*	56.00	62.00	3.00	1.95
MOR0570030/N90*	57.00	63.00	3.00	2.01
MOR0595030/N90	59.50	65.50	3.00	1.66
MOR0600030/N90*	60.00	66.00	3.00	2.03
MOR0645030/N90	64.50	70.50	3.00	1.58
MOR0720030/N90	72.00	78.00	3.00	3.84
MOR0795030/N90	79.50	85.50	3.00	3.07
MOR0840030/N90*	84.00	90.00	3.00	6.79
MOR0845030/N90	84.50	90.50	3.00	2.01
MOR0895030/N90*	89.50	95.50	3.00	2.14
MOR0920030/N90	92.00	98.00	3.00	2.25
MOR0943030/N90*	94.30	100.30	3.00	2.15
MOR0945030/N90	94.50	100.50	3.00	2.07
MOR0980030/N90*	98.00	104.00	3.00	2.25
MOR0995030/N90	99.50	105.50	3.00	2.18
MOR1045030/N90	104.50	110.50	3.00	2.31
MOR1095030/N90	109.50	115.50	3.00	2.31
MOR1145030/N90	114.50	120.50	3.00	2.64
MOR1195030/N90	119.50	125.50	3.00	2.51
MOR1245030/N90	124.50	130.50	3.00	2.51
MOR1270030/N90	127.00	133.00	3.00	2.64
MOR1345030/N90	134.50	140.50	3.00	3.04
MOR1350030/N90*	135.00	141.00	3.00	2.47
MOR1395030/N90	139.50	145.50	3.00	3.11
MOR1550030/N90	155.00	161.00	3.00	4.32
MOR1845030/N90	184.50	190.50	3.00	3.84
MOR1900030/N90	190.00	196.00	3.00	4.31
MOR2050030/N90*	205.00	211.00	3.00	6.63
MOR2740030/N90*	274.00	280.00	3.00	23.27
MOR0244031/N90	24.40	30.60	3.10	0.32
MOR0294031/N90	29.40	35.60	3.10	0.43
MOR0344031/N90	34.40	40.60	3.10	0.53
MOR0394031/N90	39.40	45.60	3.10	0.58
MOR0444031/N90	44.40	50.60	3.10	1.18
MOR0494031/N90	49.40	55.60	3.10	1.24
MOR0544031/N90	54.40	60.60	3.10	1.30
MOR0594031/N90	59.40	65.60	3.10	1.47

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METRIC O'RINGS - NBR 90A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0624031/N90*	62.40	68.60	3.10	1.30
MOR0644031/N90	64.40	70.60	3.10	1.46
MOR0694031/N90	69.40	75.60	3.10	1.49
MOR0744031/N90	74.40	80.60	3.10	1.43
MOR0745031/N90*	74.50	80.70	3.10	3.64
MOR0794031/N90	79.40	85.60	3.10	1.79
MOR0844031/N90	84.40	90.60	3.10	1.86
MOR0894031/N90	89.40	95.60	3.10	1.89
MOR0944031/N90	94.40	100.60	3.10	1.93
MOR0994031/N90	99.40	105.60	3.10	2.10
MOR1044031/N90	104.40	110.60	3.10	2.14
MOR1094031/N90	109.40	115.60	3.10	2.18
MOR1144031/N90	114.40	120.60	3.10	2.21
MOR1194031/N90	119.40	125.60	3.10	2.39
MOR1244031/N90	124.40	130.60	3.10	2.44
MOR1274031/N90*	127.40	133.60	3.10	2.67
MOR1294031/N90	129.40	135.60	3.10	2.47
MOR1344031/N90	134.40	140.60	3.10	2.88
MOR1394031/N90	139.40	145.60	3.10	2.92
MOR1444031/N90	144.40	150.60	3.10	2.95
MOR1644031/N90	164.40	170.60	3.10	5.65
MOR1694031/N90	169.40	175.60	3.10	5.65
MOR0167034/N90	16.70	23.50	3.40	0.61
MOR0217035/N90	21.70	28.70	3.50	0.39
MOR0221035/N90	22.10	29.10	3.50	0.44
MOR0237035/N90	23.70	30.70	3.50	0.58
MOR0247035/N90	24.70	31.70	3.50	0.58
MOR0252035/N90	25.20	32.20	3.50	0.44
MOR0257035/N90	25.70	32.70	3.50	0.76
MOR0277035/N90	27.70	34.70	3.50	0.82
MOR0287035/N90	28.70	35.70	3.50	0.96
MOR0292035/N90	29.20	36.20	3.50	0.49
MOR0297035/N90	29.70	36.70	3.50	0.97
MOR0307035/N90	30.70	37.70	3.50	1.00
MOR0312035/N90	31.20	38.20	3.50	0.50
MOR0317035/N90	31.70	38.70	3.50	1.02
MOR0327035/N90	32.70	39.70	3.50	1.20
MOR0337035/N90	33.70	40.70	3.50	1.08
MOR0347035/N90	34.70	41.70	3.50	1.08
MOR0352035/N90	35.20	42.20	3.50	0.64
MOR0357035/N90	35.70	42.70	3.50	1.09
MOR0377035/N90	37.70	44.70	3.50	1.14
MOR0387035/N90	38.70	45.70	3.50	1.16
MOR0397035/N90	39.70	46.70	3.50	1.17
MOR0407035/N90	40.70	47.70	3.50	1.18
MOR0417035/N90*	41.70	48.70	3.50	1.21
MOR0428035/N90*	42.80	49.80	3.50	1.50
MOR0437035/N90	43.70	50.70	3.50	1.32

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0444035/N90	44.40	51.40	3.50	1.25
MOR0447035/N90	44.70	51.70	3.50	1.32
MOR0457035/N90	45.70	52.70	3.50	1.33
MOR0476035/N90*	47.60	54.60	3.50	1.65
MOR0477035/N90	47.70	54.70	3.50	1.70
MOR0487035/N90	48.70	55.70	3.50	1.74
MOR0492035/N90	49.20	56.20	3.50	1.30
MOR0497035/N90	49.70	56.70	3.50	1.75
MOR0523035/N90*	52.30	59.30	3.50	2.87
MOR0537035/N90*	53.70	60.70	3.50	2.01
MOR0550035/N90*	55.00	62.00	3.50	2.22
MOR0555035/N90*	55.50	62.50	3.50	2.46
MOR0571035/N90*	57.10	64.10	3.50	2.34
MOR0590035/N90*	59.00	66.00	3.50	1.77
MOR0603035/N90*	60.30	67.30	3.50	2.51
MOR0619035/N90*	61.90	68.90	3.50	3.64
MOR0650035/N90*	65.00	72.00	3.50	2.51
MOR0659035/N90*	65.90	72.90	3.50	2.64
MOR1297035/N90	129.70	136.70	3.50	3.61
MOR1500035/N90	150.00	157.00	3.50	4.58
MOR0230036/N90*	23.00	30.20	3.60	0.84
MOR0246036/N90	24.60	31.80	3.60	0.48
MOR0262036/N90	26.20	33.40	3.60	0.88
MOR0278036/N90*	27.80	35.00	3.60	1.00
MOR0293036/N90*	29.30	36.50	3.60	0.47
MOR0308036/N90*	30.80	38.00	3.60	0.74
MOR0341036/N90*	34.10	41.30	3.60	1.34
MOR0145040/N90	14.50	22.50	4.00	0.20
MOR0235040/N90	23.50	31.50	4.00	1.29
MOR0380040/N90*	38.00	46.00	4.00	1.46
MOR0400040/N90*	40.00	48.00	4.00	1.13
MOR0420040/N90*	42.00	50.00	4.00	1.66
MOR0450040/N90*	45.00	53.00	4.00	1.50
MOR0890040/N90*	89.00	97.00	4.00	3.61
MOR1260045/N90	126.00	135.00	4.50	5.90
MOR0750050/N90*	75.00	85.00	5.00	4.01
MOR0800050/N90	80.00	90.00	5.00	3.32
MOR1100050/N90*	110.00	120.00	5.00	5.68
MOR1120050/N90	112.00	122.00	5.00	6.06
MOR1300050/N90*	130.00	140.00	5.00	6.55
MOR3420053/N90	342.00	352.66	5.33	30.35
MOR0393057/N90	39.30	50.70	5.70	1.17
MOR0443057/N90	44.30	55.70	5.70	1.32
MOR0476057/N90*	47.60	59.00	5.70	1.87
MOR0493057/N90	49.30	60.70	5.70	1.93
MOR0496057/N90	49.60	61.00	5.70	1.93
MOR0513057/N90	51.30	62.70	5.70	2.07
MOR0516057/N90	51.60	63.00	5.70	2.63

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METRIC O'RINGS - NBR 90A

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0523057/N90	52.30	63.70	5.70	2.41
MOR0526057/N90	52.60	64.00	5.70	2.01
MOR0543057/N90	54.30	65.70	5.70	2.51
MOR0546057/N90	54.60	66.00	5.70	2.05
MOR0553057/N90*	55.30	66.70	5.70	2.79
MOR0556057/N90*	55.60	67.00	5.70	2.06
MOR0573057/N90*	57.30	68.70	5.70	3.40
MOR0576057/N90	57.60	69.00	5.70	2.72
MOR0593057/N90	59.30	70.70	5.70	3.45
MOR0596057/N90	59.60	71.00	5.70	2.75
MOR0613057/N90*	61.30	72.70	5.70	3.49
MOR0616057/N90*	61.60	73.00	5.70	3.41
MOR0623057/N90	62.30	73.70	5.70	3.85
MOR0626057/N90*	62.60	74.00	5.70	3.84
MOR0643057/N90	64.30	75.70	5.70	3.52
MOR0646057/N90	64.60	76.00	5.70	3.47
MOR0663057/N90*	66.30	77.70	5.70	3.72
MOR0666057/N90	66.60	78.00	5.70	3.52
MOR0693057/N90	69.30	80.70	5.70	3.85
MOR0696057/N90	69.60	81.00	5.70	3.61
MOR0706057/N90	70.60	82.00	5.70	3.63
MOR0743057/N90	74.30	85.70	5.70	4.17
MOR0746057/N90	74.60	86.00	5.70	3.72
MOR0793057/N90	79.30	90.70	5.70	4.20
MOR0796057/N90	79.60	91.00	5.70	3.87
MOR0843057/N90	84.30	95.70	5.70	4.45
MOR0846057/N90	84.60	96.00	5.70	3.95
MOR0893057/N90	89.30	100.70	5.70	4.73
MOR0896057/N90	89.60	101.00	5.70	4.49
MOR0943057/N90	94.30	105.70	5.70	5.17
MOR0946057/N90	94.60	106.00	5.70	5.24
MOR0993057/N90	99.30	110.70	5.70	5.25
MOR0996057/N90	99.60	111.00	5.70	5.35
MOR1016057/N90*	101.60	113.00	5.70	5.39
MOR1043057/N90	104.30	115.70	5.70	5.33
MOR1046057/N90	104.60	116.00	5.70	5.46
MOR1093057/N90	109.30	120.70	5.70	5.39
MOR1096057/N90	109.60	121.00	5.70	5.57
MOR1113057/N90*	111.30	122.70	5.70	6.30
MOR1116057/N90	111.60	123.00	5.70	5.62
MOR1143057/N90	114.30	125.70	5.70	5.62
MOR1146057/N90	114.60	126.00	5.70	5.67
MOR1193057/N90	119.30	130.70	5.70	5.45
MOR1196057/N90	119.60	131.00	5.70	5.79
MOR1243057/N90	124.30	135.70	5.70	5.70
MOR1246057/N90	124.60	136.00	5.70	5.79
MOR1293057/N90	129.30	140.70	5.70	5.74
MOR1296057/N90	129.60	141.00	5.70	5.79

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1313057/N90*	131.30	142.70	5.70	6.06
MOR1316057/N90	131.60	143.00	5.70	5.82
MOR1343057/N90	134.30	145.70	5.70	6.27
MOR1346057/N90	134.60	146.00	5.70	5.87
MOR1393057/N90	139.30	150.70	5.70	6.31
MOR1396057/N90	139.60	151.00	5.70	5.93
MOR1443057/N90	144.30	155.70	5.70	6.63
MOR1446057/N90	144.60	156.00	5.70	6.03
MOR1493057/N90	149.30	160.70	5.70	6.30
MOR1496057/N90	149.60	161.00	5.70	7.39
MOR1543057/N90	154.30	165.70	5.70	7.48
MOR1593057/N90	159.30	170.70	5.70	7.79
MOR1643057/N90	164.30	175.70	5.70	9.45
MOR1693057/N90	169.30	180.70	5.70	9.54
MOR1743057/N90	174.30	185.70	5.70	9.71
MOR1793057/N90	179.30	190.70	5.70	10.84
MOR1843057/N90	184.30	195.70	5.70	10.96
MOR1893057/N90	189.30	200.70	5.70	11.08
MOR1943057/N90	194.30	205.70	5.70	11.20
MOR1993057/N90	199.30	210.70	5.70	14.43
MOR2043057/N90*	204.30	215.70	5.70	15.24
MOR2093057/N90	209.30	220.70	5.70	17.10
MOR2143057/N90	214.30	225.70	5.70	17.85
MOR2193057/N90	219.30	230.70	5.70	17.55
MOR2243057/N90	224.30	235.70	5.70	20.79
MOR2293057/N90	229.30	240.70	5.70	21.07
MOR2343057/N90	234.30	245.70	5.70	21.25
MOR2393057/N90	239.30	250.70	5.70	22.38
MOR2493057/N90	249.30	260.70	5.70	24.66
MOR2593057/N90	259.30	270.70	5.70	26.11
MOR2693057/N90	269.30	280.70	5.70	26.30
MOR2743057/N90	274.30	285.70	5.70	26.32
MOR2793057/N90	279.30	290.70	5.70	27.65
MOR2893057/N90	289.30	300.70	5.70	32.63
MOR2993057/N90	299.30	310.70	5.70	36.94
MOR4543057/N90*	454.30	465.70	5.70	42.17
MOR4592057/N90*	459.20	470.60	5.70	43.58
MOR5043057/N90*	504.30	515.70	5.70	65.40
MOR1442084/N90	144.20	161.00	8.40	12.81
MOR1492084/N90	149.20	166.00	8.40	12.94
MOR1495084/N90	149.50	166.30	8.40	11.57
MOR1542084/N90*	154.20	171.00	8.40	13.14
MOR1545084/N90	154.50	171.30	8.40	13.31
MOR1592084/N90*	159.20	176.00	8.40	13.30
MOR1595084/N90	159.50	176.30	8.40	14.72
MOR1642084/N90*	164.20	181.00	8.40	14.63
MOR1645084/N90	164.50	181.30	8.40	14.94
MOR1692084/N90*	169.20	186.00	8.40	14.94

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

METRIC O'RINGS - NBR 90A

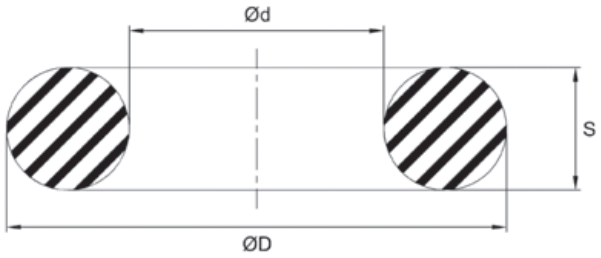
Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1695084/N90	169.50	186.30	8.40	15.12
MOR1742084/N90*	174.20	191.00	8.40	15.21
MOR1745084/N90	174.50	191.30	8.40	15.33
MOR1792084/N90*	179.20	196.00	8.40	15.93
MOR1795084/N90*	179.50	196.30	8.40	16.62
MOR1842084/N90*	184.20	201.00	8.40	15.96
MOR1845084/N90	184.50	201.30	8.40	17.31
MOR1848084/N90*	184.80	201.60	8.40	16.93
MOR1892084/N90*	189.20	206.00	8.40	17.29
MOR1895084/N90*	189.50	206.30	8.40	17.55
MOR1942084/N90*	194.20	211.00	8.40	17.67
MOR1945084/N90	194.50	211.30	8.40	17.77
MOR1992084/N90*	199.20	216.00	8.40	17.73
MOR1995084/N90	199.50	216.30	8.40	17.99
MOR2045084/N90*	204.50	221.30	8.40	22.24
MOR2085084/N90	208.50	225.30	8.40	21.90
MOR2094084/N90*	209.40	226.20	8.40	22.04
MOR2095084/N90	209.50	226.30	8.40	20.64
MOR2145084/N90	214.50	231.30	8.40	19.54
MOR2195084/N90	219.50	236.30	8.40	19.74
MOR2245084/N90	224.50	241.30	8.40	26.19
MOR2295084/N90	229.50	246.30	8.40	35.61
MOR2345084/N90	234.50	251.30	8.40	41.46
MOR2395084/N90*	239.50	256.30	8.40	51.70

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR2445084/N90	244.50	261.30	8.40	54.96
MOR2495084/N90	249.50	266.30	8.40	56.54
MOR2545084/N90	254.50	271.30	8.40	56.99
MOR2595084/N90*	259.50	276.30	8.40	57.95
MOR2645084/N90	264.50	281.30	8.40	59.26
MOR2695084/N90	269.50	286.30	8.40	63.51
MOR2745084/N90*	274.50	291.30	8.40	67.85
MOR2795084/N90*	279.50	296.30	8.40	70.68
MOR2845084/N90	284.50	301.30	8.40	70.68
MOR2895084/N90*	289.50	306.30	8.40	72.09
MOR2945084/N90	294.50	311.30	8.40	73.50
MOR2995084/N90	299.50	316.30	8.40	69.16
MOR3145084/N90*	314.50	331.30	8.40	70.76
MOR3195084/N90	319.50	336.30	8.40	70.53
MOR3300084/N90*	330.00	346.80	8.40	75.83
MOR3345084/N90	334.50	351.30	8.40	79.16
MOR3395084/N90*	339.50	356.30	8.40	81.08
MOR3435084/N90	343.50	360.30	8.40	57.12
MOR3545084/N90	354.50	371.30	8.40	83.15
MOR3595084/N90*	359.50	376.30	8.40	87.27
MOR3745084/N90*	374.50	391.30	8.40	97.44
MOR3845084/N90*	384.50	401.30	8.40	90.54
MOR3995084/N90*	399.50	416.30	8.40	90.47

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

METRIC O'RINGS

Silicone 72



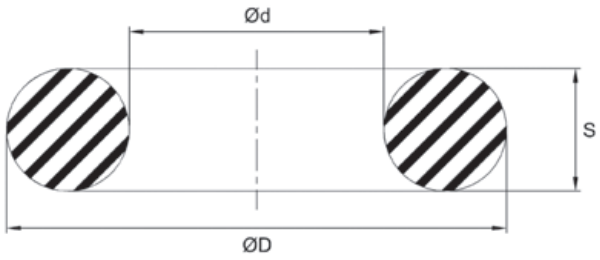
Temperature: -65/450F [-54/232C] **Pressure:**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0098024/S*	9.80	14.60	2.40	1.90	MOR0247035/S	24.70	31.70	3.50	2.10
MOR0118024/S	11.80	16.60	2.40	1.91	MOR0277035/S*	27.70	34.70	3.50	2.15
MOR0138024/S	13.80	18.60	2.40	1.92	MOR0297035/S	29.70	36.80	3.50	2.16
MOR0148024/S	14.80	19.60	2.40	1.93	MOR0317035/S*	31.70	38.70	3.50	2.18
MOR0158024/S	15.80	20.60	2.40	1.95	MOR0347035/S*	34.70	41.70	3.50	2.23
MOR0178024/S*	17.80	22.60	2.40	1.97	MOR0377035/S*	37.70	44.70	3.50	2.25
MOR0198024/S*	19.80	24.60	2.40	1.98	MOR0397035/S*	39.70	46.70	3.50	2.30
MOR0208024/S*	20.80	25.60	2.40	2.01	MOR0417035/S*	41.70	48.70	3.50	2.32
MOR0544031/S*	54.40	60.60	3.10	2.79	MOR0447035/S	44.70	51.70	3.50	2.38
MOR0594031/S*	59.40	65.60	3.10	2.30	MOR0477035/S*	47.70	54.70	3.50	2.43
MOR0694031/S*	69.40	75.60	3.10	2.88	MOR0497035/S*	49.70	56.70	3.50	2.47
MOR1144031/S*	114.40	120.60	3.10	2.93	MOR0646057/S*	64.60	76.00	5.70	3.59
MOR0218035/S*	21.80	28.80	3.50	2.07	MOR1643057/S*	164.30	175.70	5.70	19.96

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

METRIC O'RINGS

Fluorocarbon FPM 70



Temperature: -13/428F [-25/220C] **Pressure:**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0030010/V	3.00	5.00	1.00	0.33	MOR0150025/V	15.00	20.00	2.50	1.69
MOR0035010/V*	3.50	5.50	1.00	0.71	MOR0160025/V	16.00	21.00	2.50	1.79
MOR0040010/V	4.00	6.00	1.00	0.85	MOR0200025/V	20.00	25.00	2.50	1.98
MOR0130010/V*	13.05	15.11	1.03	0.94	MOR0220025/V*	22.00	27.00	2.50	2.25
MOR0100015/V	10.00	13.00	1.50	0.56	MOR0250025/V*	25.00	30.00	2.50	2.44
MOR0220015/V*	22.00	25.00	1.50	1.15	MOR0430025/V*	43.00	48.00	2.50	4.13
MOR0049019/V*	4.90	8.70	1.90	0.80	MOR0570025/V*	57.00	62.00	2.50	4.31
MOR0058019/V*	5.80	9.60	1.90	1.98	MOR0222026/V*	22.23	27.47	2.62	4.50
MOR0072019/V*	7.20	11.00	1.90	0.80	MOR0924026/V	92.40	97.65	2.62	5.66
MOR0089019/V	8.90	12.70	1.90	0.81	MOR0100030/V	10.00	16.00	3.00	1.70
MOR0040020/V	4.00	8.00	2.00	1.57	MOR0120030/V	12.00	18.00	3.00	1.85
MOR0050020/V	5.00	9.00	2.00	0.75	MOR0130030/V*	13.00	19.00	3.00	1.90
MOR0060020/V	6.00	10.00	2.00	0.85	MOR0140030/V	14.00	20.00	3.00	2.15
MOR0070020/V	7.00	11.00	2.00	0.92	MOR0160030/V	16.00	22.00	3.00	2.01
MOR0080020/V	8.00	12.00	2.00	0.97	MOR0180030/V	18.00	24.00	3.00	2.15
MOR0090020/V	9.00	13.00	2.00	1.02	MOR0190030/V	19.00	25.00	3.00	2.24
MOR0100020/V	10.00	14.00	2.00	1.05	MOR0195030/V	19.50	25.50	3.00	2.25
MOR0110020/V	11.00	15.00	2.00	1.10	MOR0210030/V*	21.00	27.00	3.00	2.63
MOR0120020/V	12.00	16.00	2.00	1.15	MOR0220030/V	22.00	28.00	3.00	2.50
MOR0130020/V*	13.00	17.00	2.00	1.30	MOR0222030/V	22.20	28.20	3.00	2.53
MOR0140020/V	14.00	18.00	2.00	1.29	MOR0240030/V	24.00	30.00	3.00	2.63
MOR0150020/V	15.00	19.00	2.00	1.42	MOR0262030/V*	26.20	32.20	3.00	2.80
MOR0160020/V	16.00	20.00	2.00	1.45	MOR0300030/V	30.00	36.00	3.00	3.15
MOR0170020/V	17.00	21.00	2.00	1.50	MOR0340030/V*	34.00	40.00	3.00	3.70
MOR0200020/V	20.00	24.00	2.00	1.70	MOR0390030/V	39.00	45.00	3.00	4.29
MOR0240020/V*	24.00	28.00	2.00	1.85	MOR0495030/V	49.50	55.50	3.00	5.01
MOR0570020/V*	57.00	61.00	2.00	5.05	MOR0500030/V*	50.00	56.00	3.00	5.18
MOR0073024/V*	7.30	12.10	2.40	1.10	MOR0550030/V	55.00	61.00	3.00	5.31
MOR0096024/V*	9.60	14.40	2.40	1.37	MOR0630030/V*	62.00	68.00	3.00	6.11
MOR0108024/V*	10.80	15.60	2.40	1.44	MOR0645030/V*	64.50	70.50	3.00	6.25
MOR0123024/V*	12.30	17.10	2.40	1.47	MOR0760030/V*	76.00	82.00	3.00	7.46
MOR0148024/V*	14.80	19.60	2.40	2.27	MOR0790030/V*	79.00	85.00	3.00	8.02
MOR0158024/V*	15.80	20.60	2.40	2.30	MOR0995030/V	99.50	105.50	3.00	10.60
MOR0178024/V	17.80	22.60	2.40	2.36	MOR1095030/V*	109.50	115.30	3.00	10.80
MOR0198024/V	19.80	24.60	2.40	2.42	MOR1195030/V	119.50	125.50	3.00	11.15
MOR1543024/V*	154.30	159.10	2.40	13.33	MOR1245030/V	124.50	130.50	3.00	11.50
MOR0100025/V*	10.00	15.00	2.50	1.34	MOR1340030/V	134.00	140.00	3.00	15.66
MOR0130025/V	13.00	18.00	2.50	1.55	MOR1445030/V	144.50	150.50	3.00	16.05

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

METRIC O'RINGS - FPM 70

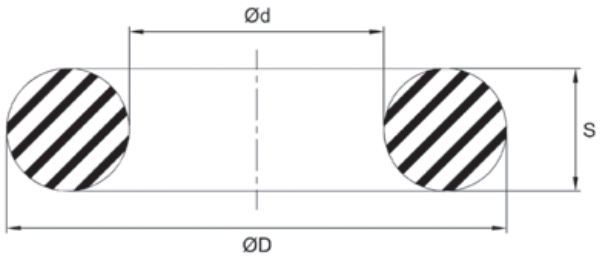
Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR1530030/V*	153.00	159.00	3.00	16.45
MOR0544031/V	54.40	60.60	3.10	7.81
MOR0594031/V	59.40	65.60	3.10	7.99
MOR0644031/V	64.40	70.60	3.10	9.30
MOR0694031/V	69.40	75.60	3.10	9.30
MOR0237035/V	23.70	30.70	3.50	6.36
MOR0277035/V	27.70	34.70	3.50	6.42
MOR0297035/V*	29.70	36.70	3.50	6.52
MOR0317035/V*	31.70	38.70	3.50	6.63
MOR0347035/V	34.70	41.70	3.50	6.78
MOR0377035/V	37.70	44.70	3.50	6.97
MOR0417035/V*	41.70	48.70	3.50	7.12
MOR0447035/V*	44.70	51.70	3.50	7.22
MOR0450035/V	45.00	52.00	3.50	7.25
MOR0477035/V	47.70	54.70	3.50	7.43
MOR0497035/V	49.70	56.70	3.50	7.44
MOR0740035/V*	74.00	81.00	3.50	11.80
MOR1180035/V*	118.00	125.00	3.50	17.79
MOR0714035/V	71.44	78.50	3.53	9.97
MOR9850353/V	985.00	992.06	3.53	289.47
MOR0180040/V	18.00	26.00	4.00	3.96
MOR0200040/V	20.00	28.00	4.00	4.17
MOR0220040/V	22.00	30.00	4.00	4.26
MOR0240040/V	24.00	32.00	4.00	4.54
MOR0250040/V	25.00	33.00	4.00	6.10
MOR0300040/V	30.00	38.00	4.00	5.42
MOR0340040/V	34.00	42.00	4.00	5.94
MOR0360040/V	36.00	44.00	4.00	6.10
MOR0400040/V	40.00	48.00	4.00	6.12
MOR0425040/V*	42.50	50.50	4.00	6.50
MOR0450040/V	45.00	53.00	4.00	6.99
MOR0470040/V	47.00	55.00	4.00	8.50

Ref.Number	Nominal Ring Dimensions			$
	d	D	S	
MOR0500040/V	50.00	58.00	4.00	8.60
MOR0800040/V*	80.00	88.00	4.00	9.82
MOR0850040/V	85.00	93.00	4.00	9.99
MOR1100040/V*	110.00	118.00	4.00	12.27
MOR1550040/V*	155.00	163.00	4.00	12.49
MOR1800040/V	180.00	188.00	4.00	12.83
MOR1900040/V	190.00	198.00	4.00	18.78
MOR0310045/V	31.00	40.00	4.50	14.85
MOR1000045/V*	100.00	109.00	4.50	34.82
MOR0160050/V	16.00	26.00	5.00	5.95
MOR0250050/V	25.00	35.00	5.00	5.74
MOR0300050/V	30.00	40.00	5.00	6.79
MOR0320050/V	32.00	42.00	5.00	6.94
MOR0350050/V	35.00	45.00	5.00	9.14
MOR1500050/V	150.00	160.00	5.00	30.33
MOR0597057/V*	59.70	71.10	5.70	17.99
MOR1643057/V	164.30	175.70	5.70	28.84
MOR1693057/V*	169.30	180.70	5.70	29.19
MOR1793057/V	179.30	190.70	5.70	29.19
MOR1893057/V	189.30	200.70	5.70	51.89
MOR2893057/V*	289.30	300.70	5.70	74.55
MOR2100070/V*	210.00	224.00	7.00	91.96
MOR2580070/V*	258.00	272.00	7.00	97.50
MOR0286080/V*	28.69	44.69	8.00	31.76
MOR2095084/V	209.50	226.30	8.40	61.47
MOR2245084/V*	224.50	241.30	8.40	72.04
MOR2345084/V*	234.50	251.30	8.40	85.23
MOR2491084/V*	249.10	265.90	8.40	95.47
MOR2645084/V	264.50	281.30	8.40	124.88
MOR2845084/V*	284.50	301.30	8.40	134.25
MOR3295084/V*	329.50	346.30	8.40	114.66

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

METRIC O'RINGS

Fluorocarbon FPM 90



Temperature: -13/428F [-25/220C] **Pressure:**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	S			d	D	S	
MOR0078019/V90	7.80	11.60	1.90	1.50	MOR0244031/V90	24.40	30.60	3.10	2.27
MOR0098019/V90*	9.80	13.60	1.90	1.63	MOR0744031/V90	74.40	80.60	3.10	3.92
MOR0100020/V90*	10.00	14.00	2.00	1.29	MOR0425040/V90*	42.50	50.50	4.00	5.44
MOR0105020/V90*	10.50	14.50	2.00	1.48	MOR0596057/V90*	59.60	71.00	5.70	18.90
MOR0108024/V90	10.80	15.60	2.40	1.62	MOR2193057/V90*	219.30	230.70	5.70	39.18
MOR0123024/V90*	12.30	17.10	2.40	1.66	MOR3435084/V90*	343.50	360.30	8.40	391.55
MOR0178024/V90	17.80	22.60	2.40	1.77					

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

O'RING CORD

	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	10.00	12.00
●	NBR 70A	MOC/N	0.80	1.08	1.08	1.21	1.34	1.48	1.61	1.76	1.88	2.15	4.02	
●	SILICONE	MOC/S							2.81					
●	NEOPRENE	MOC/C												10.23
Increments of 1 ft														

O'RING KITS AND ACCESSORIES

COMPACT SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-C-JIS70	JAPANESE STD. - NBR 70	396	30	35.01
ORK-C-JIS90	JAPANESE STD. - NBR 90	396	30	56.88
ORK-C-N70M	EUROPEAN STD. - NBR70	401	34	44.02
ORK-C-N90M	EUROPEAN STD. - NBR 90	394	32	45.05
ORK-C-V75M	EUROPEAN STD. - FPM 75	401	34	271.53

INDUSTRIAL SERIES

Ref. Number	Material	Total Qty	Sizes	$
ORK-IND-N70M	EUROPEAN STD. - NBR70	500	36	52.36
ORK-IND-N90M	EUROPEAN STD. - NBR 90	500	36	128.78
ORK-IND-V75M	EUROPEAN 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

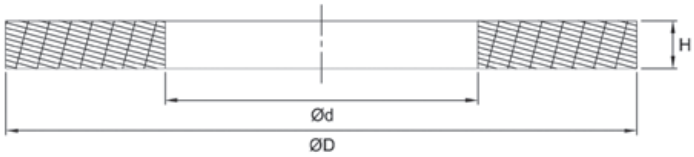
OSK SERIES

Ref. Number	Material	Total Qty	Sizes	$
OSK100M-NBR	O'RING SPLICING KIT - NBR 70			46.52
OSK100M-FPM	O'RING SPLICING KIT - NBR 70			191.07

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

SD/T & ST/T - Back-up Rings

V.PTFE



Temperature: -320/450F [-196/232C] **Pressure: N/A**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	H			d	D	H	
BU003006012SD/T*	3.00	6.00	1.25	2.40	BU035041012SD/T-1*	35.50	41.50	1.25	2.86
BU004007012SD/T*	4.00	7.00	1.25	2.40	BU036042012SD/T	36.00	42.00	1.25	2.86
BU005008012SD/T*	5.00	8.00	1.25	2.40	BU038044012SD/T*	38.00	44.00	1.25	2.86
BU006009012SD/T*	6.00	9.00	1.25	2.40	BU039045012SD/T*	39.00	45.00	1.25	3.06
BU007010012SD/T*	7.00	10.00	1.25	2.40	BU040045012SD/T	40.00	45.00	1.25	2.74
BU008011012SD/T*	8.00	11.00	1.25	2.40	BU040046012SD/T	40.00	46.00	1.25	3.06
BU009012012SD/T*	9.00	12.00	1.25	2.40	BU040050019SD/T	40.00	50.00	1.90	4.95
BU010013012SD/T	10.00	13.00	1.25	2.40	BU041047012SD/T*	41.00	47.00	1.25	3.06
BU010014012SD/T*	10.00	14.00	1.25	2.40	BU042048012SD/T	42.00	48.00	1.25	3.06
BU011012012SD/T-1*	11.20	15.20	1.25	2.40	BU044050012SD/T	44.00	50.00	1.25	3.44
BU011015012SD/T*	11.00	15.00	1.25	2.40	BU045050012SD/T	45.00	50.00	1.25	2.73
BU012016012SD/T	12.00	16.00	1.25	2.40	BU045051012SD/T*	45.00	51.00	1.25	3.44
BU012016012SD/T-1	12.50	16.50	1.25	2.40	BU046052012SD/T	46.00	52.00	1.25	3.44
BU014018012SD/T	14.00	18.00	1.25	2.40	BU048054012SD/T*	48.00	54.00	1.25	3.44
BU015019012SD/T	15.00	19.00	1.25	2.40	BU048058019SD/T*	48.00	58.00	1.90	5.50
BU016020012SD/T	16.00	20.00	1.25	2.40	BU049055012SD/T*	49.00	55.00	1.25	3.44
BU018022012SD/T	18.00	22.00	1.25	2.40	BU050055012SD/T	50.00	55.00	1.25	4.47
BU020024012SD/T	20.00	24.00	1.25	2.40	BU050060012SD/T*	50.00	60.00	1.25	3.44
BU021025012SD/T	21.00	25.00	1.25	2.40	BU050060019SD/T	50.00	60.00	1.90	5.50
BU022026012SD/T*	22.00	26.00	1.25	2.40	BU052062019SD/T*	52.00	62.00	1.90	5.50
BU022028012SD/T	22.00	28.00	1.25	2.40	BU053063019SD/T	53.00	63.00	1.90	5.50
BU022028012SD/T	22.40	28.40	1.25	2.40	BU055060012SD/T	55.00	60.00	1.25	4.27
BU024030012SD/T*	24.00	30.00	1.25	2.40	BU055065019SD/T*	55.00	65.00	1.90	5.50
BU025030012SD/T	25.00	30.00	1.25	2.40	BU056066019SD/T*	56.00	66.00	1.90	5.97
BU025031012SD/T	25.00	31.00	1.25	2.40	BU058068019SD/T	58.00	68.00	1.90	5.97
BU025031012SD/T-1*	25.50	31.50	1.25	2.40	BU060065012SD/T	60.00	65.00	1.25	4.54
BU026032012SD/T	26.00	32.00	1.25	2.40	BU060070019SD/T	60.00	70.00	1.90	5.97
BU028034012SD/T	28.00	34.00	1.25	2.40	BU062072019SD/T	62.00	72.00	1.90	5.97
BU029035012SD/T	29.00	35.00	1.25	2.40	BU063073019SD/T*	63.00	73.00	1.90	6.12
BU029035012SD/T-1*	29.50	35.50	1.25	2.40	BU065070012SD/T	65.00	70.00	1.25	5.16
BU030035012SD/T	30.00	35.00	1.25	2.40	BU065075019SD/T	65.00	75.00	1.90	6.39
BU030036012SD/T	30.00	36.00	1.25	2.40	BU067077019SD/T*	67.00	77.00	1.90	6.69
BU031037012SD/T*	31.00	37.00	1.25	2.40	BU070075012SD/T	70.00	75.00	1.25	6.97
BU031037012SD/T-1*	31.50	37.50	1.25	2.40	BU070080019SD/T	70.00	80.00	1.90	6.18
BU032038012SD/T*	32.00	38.00	1.25	2.67	BU071081019SD/T*	71.00	81.00	1.90	6.18
BU034040012SD/T	34.00	40.00	1.25	2.67	BU075080012SD/T	75.00	80.00	1.25	7.13
BU035040012SD/T	35.00	40.00	1.25	2.50	BU075085019SD/T	75.00	85.00	1.90	7.42
BU035041012SD/T	35.00	41.00	1.25	2.67	BU076090030ST/T*	76.00	90.00	3.00	14.93

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

SD/T & ST/T SERIES - V.PTFE

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BU080085012SD/T	80.00	85.00	1.25	7.95
BU080090019SD/T	80.00	90.00	1.90	7.98
BU085090012SD/T	85.00	90.00	1.25	8.05
BU085095019SD/T	85.00	95.00	1.90	8.19
BU086100030ST/T*	86.00	100.00	3.00	20.12
BU090095012SD/T	90.00	95.00	1.25	9.20
BU090100019SD/T	90.00	100.00	1.90	9.23
BU095100012SD/T	95.00	100.00	1.25	9.44
BU095105019SD/T	95.00	105.00	1.90	9.50
BU096110030ST/T*	96.00	110.00	3.00	14.84
BU100105012SD/T	100.00	105.00	1.25	9.76
BU100110019SD/T	100.00	110.00	1.90	9.76
BU102112019SD/T*	102.00	112.00	1.90	9.76
BU105110012SD/T	105.00	110.00	1.25	10.07
BU105115019SD/T	105.00	115.00	1.90	10.53
BU106120030ST/T	106.00	120.00	3.00	14.98
BU110115012SD/T	110.00	115.00	1.25	10.07
BU110118021SD/T	110.00	118.00	2.10	14.79
BU110120019SD/T	110.00	120.00	1.90	10.71
BU112120019SD/T	112.00	120.00	1.90	10.71
BU112122019SD/T	112.00	122.00	1.90	10.76
BU115120012SD/T	115.00	120.00	1.25	10.26
BU115125019SD/T	115.00	125.00	1.90	11.00
BU120125012SD/T	120.00	125.00	1.25	10.26
BU120130019SD/T	120.00	130.00	1.90	11.52
BU125130012SD/T	125.00	130.00	1.25	10.40
BU125135019SD/T	125.00	135.00	1.90	12.04
BU128133012SD/T*	128.00	133.00	1.25	10.54
BU130135012SD/T*	130.00	135.00	1.25	10.54
BU130140019SD/T	130.00	140.00	1.90	12.26
BU132142019SD/T*	132.00	142.00	1.90	12.26
BU135140012SD/T	135.00	140.00	1.25	11.27
BU135145019SD/T	135.00	145.00	1.90	12.77
BU140145012SD/T	140.00	145.00	1.25	12.37
BU140150019SD/T	140.00	150.00	1.90	13.32
BU145150012SD/T	145.00	150.00	1.25	14.19
BU145155019SD/T	145.00	155.00	1.90	13.76
BU150160019SD/T	150.00	160.00	1.90	14.05
BU150165027SD/T*	150.00	165.00	2.75	15.85
BU155165019SD/T	155.00	165.00	1.90	14.50
BU155170027SD/T*	155.00	170.00	2.75	16.29
BU160170019SD/T	160.00	170.00	1.90	15.52
BU160175027SD/T	160.00	175.00	2.75	16.70
BU165175019SD/T	165.00	175.00	1.90	15.52
BU165180027SD/T	165.00	180.00	2.75	16.70
BU170180019SD/T	170.00	180.00	1.90	15.30
BU170185027SD/T	170.00	185.00	2.75	18.32
BU175185019SD/T	175.00	185.00	1.90	15.78
BU175190027SD/T	175.00	190.00	2.75	18.90
BU180190019SD/T	180.00	190.00	1.90	17.02
BU180195027SD/T*	180.00	195.00	2.75	19.34
BU185195019SD/T*	185.00	195.00	1.90	17.27
BU185200027SD/T*	185.00	200.00	2.75	19.94
BU190200019SD/T	190.00	200.00	1.90	17.79
BU190205027SD/T*	190.00	205.00	2.75	20.36
BU195205019SD/T	195.00	205.00	1.90	18.27
BU195210027SD/T*	195.00	210.00	2.75	20.96
BU200210019SD/T	200.00	210.00	1.90	18.50
BU200215027SD/T	200.00	215.00	2.75	21.41
BU205215019SD/T	205.00	215.00	1.90	18.80
BU205215025SD/T*	205.00	215.00	2.50	35.93
BU205220027SD/T*	205.00	220.00	2.75	21.41
BU209224027SD/T*	209.00	224.00	2.75	21.41
BU210220019SD/T	210.00	220.00	1.90	19.56
BU210225027SD/T	210.00	225.00	2.75	22.43
BU215225019SD/T	215.00	225.00	1.90	20.32
BU215230027SD/T	215.00	230.00	2.75	23.23
BU220230019SD/T	220.00	230.00	1.90	20.50
BU225235019SD/T*	225.00	235.00	1.90	20.50
BU225240027SD/T	225.00	240.00	2.75	44.71
BU230240019SD/T*	230.00	240.00	1.90	21.09
BU230240025SD/T	230.00	240.00	2.50	30.63
BU230245027SD/T*	230.00	245.00	2.75	24.80
BU235245019SD/T*	235.00	245.00	1.90	21.31
BU235250027SD/T	235.00	250.00	2.75	25.20
BU240250019SD/T	240.00	250.00	1.90	22.30
BU240255027SD/T*	240.00	255.00	2.75	25.65
BU245255019SD/T	245.00	255.00	1.90	22.52
BU245260027SD/T*	245.00	260.00	2.75	26.23
BU250260019SD/T	250.00	260.00	1.90	23.30
BU250265027SD/T*	250.00	265.00	2.75	26.87
BU255265019SD/T*	255.00	265.00	1.90	22.52
BU255270027SD/T*	255.00	270.00	2.75	27.26
BU260270019SD/T*	260.00	270.00	1.90	24.28
BU260275027SD/T*	260.00	275.00	2.75	28.04
BU265275019SD/T*	265.00	275.00	1.90	24.40
BU265280027SD/T	265.00	280.00	2.75	28.29
BU270280019SD/T	270.00	280.00	1.90	26.70
BU270285027SD/T*	270.00	285.00	2.75	29.13
BU275285019SD/T*	275.00	285.00	1.90	28.54
BU275290027SD/T*	275.00	290.00	2.75	29.31
BU280290019SD/T*	280.00	290.00	1.90	29.54
BU280295027SD/T*	280.00	295.00	2.75	30.14
BU285295019SD/T*	285.00	295.00	1.90	29.54
BU285300027SD/T*	285.00	300.00	2.75	30.19
BU290300019SD/T	290.00	300.00	1.90	28.01

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

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BU290305027SD/T*	290.00	305.00	2.75	31.23
BU295305019SD/T*	295.00	305.00	1.90	29.54
BU295310027SD/T*	295.00	310.00	2.75	33.10
BU300310019SD/T*	300.00	310.00	1.90	20.05

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BU327337019SD/T	327.00	337.00	1.80	37.66
BU345360027SD/T	345.00	360.00	2.70	50.84
BU389399025SD/T*	389.00	399.00	2.50	47.65

SD/U - Back-up Rings

Polyurethane AU 95A

Temperature: -40/195F [-40/91C] **Pressure: N/A**

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BU010013013SD/U*	10.00	13.00	1.30	0.40
BU010014013SD/U	10.00	14.00	1.30	0.39
BU011015013SD/U*	11.00	15.00	1.30	0.40
BU011015013SD/U-1*	11.20	15.20	1.30	2.18
BU012016013SD/U	12.00	16.00	1.30	0.40
BU012016013SD/U-1*	12.50	16.50	1.30	2.39
BU013017013SD/U	13.00	17.00	1.30	0.41
BU014018013SD/U	14.00	18.00	1.30	0.41
BU015019013SD/U*	15.00	19.00	1.30	0.33
BU016020013SD/U	16.00	20.00	1.30	0.42
BU017021013SD/U*	17.00	21.00	1.30	0.43
BU018022013SD/U	18.00	22.00	1.30	0.43
BU020024013SD/U	20.00	24.00	1.30	0.47
BU020025013SD/U	20.00	25.00	1.30	0.47
BU020026013SD/U*	20.00	26.00	1.30	0.47
BU021025013SD/U*	21.00	25.00	1.30	0.48
BU021026013SD/U*	21.00	26.00	1.30	0.47
BU022026013SD/U*	22.00	26.00	1.30	0.48
BU022027013SD/U*	22.00	27.00	1.30	0.48
BU022028013SD/U	22.00	28.00	1.30	0.48
BU022028013SD/U-1*	22.40	28.40	1.30	2.82
BU023028013SD/U*	23.00	28.00	1.30	0.48
BU024030013SD/U*	24.00	30.00	1.30	0.50
BU025030013SD/U	25.00	30.00	1.30	0.50
BU025031013SD/U*	25.00	31.00	1.30	0.51
BU025031013SD/U-1*	25.50	31.50	1.30	2.97

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BU026032013SD/U*	26.00	32.00	1.30	0.51
BU027032013SD/U*	27.00	32.00	1.30	0.51
BU028034013SD/U*	28.00	34.00	1.30	0.53
BU029034013SD/U*	29.00	34.00	1.30	0.53
BU029035013SD/U *	29.00	35.00	1.30	0.53
BU029035013SD/U-1*	29.50	35.50	1.30	3.78
BU030035013SD/U	30.00	35.00	1.30	0.53
BU030036013SD/U*	30.00	36.00	1.30	0.53
BU031036013SD/U*	31.00	36.00	1.30	0.53
BU031037013SD/U*	31.00	37.00	1.30	0.54
BU031037013SD/U-1*	31.50	37.50	1.30	3.83
BU032037013SD/U	32.00	37.00	1.30	0.54
BU032038013SD/U*	32.00	38.00	1.30	0.54
BU033038013SD/U	33.00	38.00	1.30	0.54
BU033039013SD/U*	33.00	39.00	1.30	0.55
BU034040013SD/U*	34.00	40.00	1.30	0.55
BU035040013SD/U	35.00	40.00	1.30	0.55
BU035041013SD/U*	35.00	41.00	1.30	0.56
BU035041013SD/U-1*	35.50	41.50	1.30	4.09
BU036042013SD/U*	36.00	42.00	1.30	0.56
BU037042013SD/U*	37.00	42.00	1.30	0.56
BU038044013SD/U*	38.00	44.00	1.30	0.58
BU039045013SD/U*	39.00	45.00	1.30	0.58
BU040045013SD/U	40.00	45.00	1.30	0.58
BU040046013SD/U*	40.00	46.00	1.30	0.60
BU040050017SD/U*	40.00	50.00	1.70	0.83

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

SD/U SERIES - AU 95A

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	H			d	D	H	
BU041047013SD/U*	41.00	47.00	1.30	0.60	BU102112017SD/U*	102.00	112.00	1.70	2.14
BU042048013SD/U*	42.00	48.00	1.30	0.60	BU105110013SD/U	105.00	110.00	1.30	1.15
BU043048013SD/U	43.00	48.00	1.30	0.60	BU105115017SD/U	105.00	115.00	1.70	2.14
BU044050013SD/U*	44.00	50.00	1.30	0.61	BU110115013SD/U	110.00	115.00	1.30	1.19
BU045050013SD/U	45.00	50.00	1.30	0.61	BU110120017SD/U	110.00	120.00	1.70	2.16
BU045051013SD/U*	45.00	51.00	1.30	0.65	BU112122017SD/U*	112.00	122.00	1.70	2.18
BU045055017SD/U*	45.00	55.00	1.70	0.88	BU115120013SD/U	115.00	120.00	1.30	1.22
BU046052013SD/U*	46.00	52.00	1.30	0.65	BU115125017SD/U	115.00	125.00	1.70	2.18
BU048054013SD/U	48.00	54.00	1.30	0.65	BU120125013SD/U	120.00	125.00	1.30	1.25
BU048058017SD/U*	48.00	58.00	1.70	0.93	BU120130017SD/U	120.00	130.00	1.70	2.23
BU049055013SD/U*	49.00	55.00	1.30	0.65	BU125130013SD/U	125.00	130.00	1.30	1.39
BU050055013SD/U	50.00	55.00	1.30	0.65	BU125135017SD/U	125.00	135.00	1.70	2.25
BU050060013SD/U*	50.00	60.00	1.30	0.75	BU128133013SD/U*	128.00	133.00	1.30	1.43
BU050060017SD/U	50.00	60.00	1.70	0.93	BU130135013SD/U	130.00	135.00	1.30	1.43
BU052062017SD/U*	52.00	62.00	1.70	0.96	BU130140013SD/U*	130.00	140.00	1.30	1.81
BU053063017SD/U	53.00	63.00	1.70	0.96	BU130140017SD/U	130.00	140.00	1.70	2.29
BU055060013SD/U	55.00	60.00	1.30	0.75	BU132142017SD/U*	132.00	142.00	1.70	2.32
BU055065017SD/U	55.00	65.00	1.70	0.98	BU135140013SD/U	135.00	140.00	1.30	1.47
BU056066017SD/U*	56.00	66.00	1.70	1.00	BU135145017SD/U	135.00	145.00	1.70	2.31
BU058063013SD/U	58.00	63.00	1.30	0.77	BU140145013SD/U	140.00	145.00	1.30	1.50
BU058068017SD/U*	58.00	68.00	1.70	1.01	BU140150017SD/U	140.00	150.00	1.70	2.33
BU060065013SD/U	60.00	65.00	1.30	0.78	BU145150013SD/U	145.00	150.00	1.30	1.53
BU060070017SD/U	60.00	70.00	1.70	1.03	BU145155017SD/U	145.00	155.00	1.70	2.38
BU062072017SD/U*	62.00	72.00	1.70	1.15	BU145160021SD/U	145.00	160.00	2.10	3.07
BU063068013SD/U*	63.00	68.00	1.30	0.80	BU150155013SD/U*	150.00	155.00	1.30	1.56
BU063073017SD/U	63.00	73.00	1.70	1.15	BU150160017SD/U	150.00	160.00	1.70	2.42
BU065070013SD/U	65.00	70.00	1.30	0.82	BU150165021SD/U	150.00	165.00	2.10	3.12
BU065075017SD/U	65.00	75.00	1.70	1.15	BU152162017SD/U*	152.00	162.00	1.70	2.42
BU067077017SD/U*	67.00	77.00	1.70	1.19	BU155160013SD/U*	155.00	160.00	1.30	1.59
BU069074013SD/U*	69.00	74.00	1.30	0.85	BU155165017SD/U	155.00	165.00	1.70	3.84
BU070075013SD/U	70.00	75.00	1.30	0.85	BU155170021SD/U	155.00	170.00	2.10	3.21
BU070080017SD/U	70.00	80.00	1.70	1.19	BU160165013SD/U*	160.00	165.00	1.30	1.62
BU071081017SD/U*	71.00	81.00	1.70	1.22	BU160170017SD/U	160.00	170.00	1.70	3.93
BU075080013SD/U	75.00	80.00	1.30	0.89	BU160175021SD/U*	160.00	175.00	2.10	3.29
BU075085017SD/U	75.00	85.00	1.70	1.21	BU165170013SD/U*	165.00	170.00	1.30	1.66
BU078088017SD/U	78.00	88.00	1.70	1.23	BU165175017SD/U	165.00	175.00	1.70	3.94
BU080085013SD/U	80.00	85.00	1.30	0.92	BU165180021SD/U	165.00	180.00	2.10	3.38
BU080090017SD/U	80.00	90.00	1.70	1.25	BU170175013SD/U*	170.00	175.00	1.30	1.69
BU085090013SD/U	85.00	90.00	1.30	0.95	BU170180017SD/U	170.00	180.00	1.70	3.96
BU085095017SD/U	85.00	95.00	1.70	1.49	BU170185021SD/U*	170.00	185.00	2.10	3.46
BU088093013SD/U*	88.00	93.00	1.30	0.97	BU172182017SD/U*	172.00	182.00	1.70	4.00
BU090095013SD/U	90.00	95.00	1.30	0.98	BU175180013SD/U*	175.00	180.00	1.30	1.73
BU090100017SD/U	90.00	100.00	1.70	1.52	BU175185017SD/U	175.00	185.00	1.70	3.97
BU095100013SD/U	95.00	100.00	1.30	1.02	BU175190021SD/U	175.00	190.00	2.10	3.54
BU095105017SD/U	95.00	105.00	1.70	1.56	BU180190017SD/U	180.00	190.00	1.70	4.06
BU098103013SD/U*	98.00	103.00	1.30	1.04	BU180195021SD/U*	180.00	195.00	2.10	3.63
BU100105013SD/U	100.00	105.00	1.30	1.05	BU185190013SD/U*	185.00	190.00	1.30	1.78
BU100110017SD/U	100.00	110.00	1.70	1.59	BU185195017SD/U	185.00	195.00	1.70	4.08

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

SD/U SERIES - AU 95A

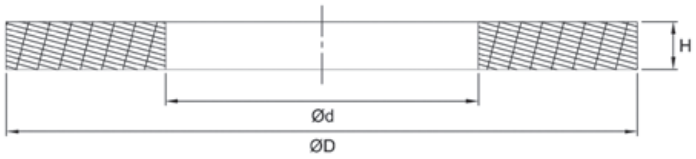
Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BU185200021SD/U	185.00	200.00	2.10	3.71
BU190200017SD/U	190.00	200.00	1.70	4.09
BU190205021SD/U	190.00	205.00	2.10	3.80
BU195205017SD/U	195.00	205.00	1.70	4.11
BU195210021SD/U*	195.00	210.00	2.10	3.88
BU200210017SD/U	200.00	210.00	1.70	4.13
BU200215021SD/U	200.00	215.00	2.10	3.97
BU205220021SD/U*	205.00	220.00	2.10	4.05
BU209224021SD/U*	209.00	224.00	2.10	4.13
BU210220017SD/U	210.00	220.00	1.70	4.23
BU210225021SD/U*	210.00	225.00	2.10	4.13
BU210225027SD/U	210.00	225.00	2.70	4.16
BU215225017SD/U	215.00	225.00	1.70	4.26
BU215225021SD/U*	215.00	225.00	2.10	4.30
BU215230021SD/U	215.00	230.00	2.10	4.22
BU215230027SD/U	215.00	230.00	2.75	4.52
BU220230017SD/U	220.00	230.00	1.70	4.27
BU220235021SD/U	220.00	235.00	2.10	4.30
BU225240021SD/U	225.00	240.00	2.10	4.39
BU230240017SD/U	230.00	240.00	1.70	4.36
BU230245021SD/U*	230.00	245.00	2.10	4.47
BU235250021SD/U	235.00	250.00	2.10	4.56

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BU240250017SD/U	240.00	250.00	1.70	4.40
BU240255021SD/U	240.00	255.00	2.10	4.64
BU245255017SD/U*	245.00	255.00	1.70	4.56
BU245260021SD/U	245.00	260.00	2.10	4.73
BU250260017SD/U	250.00	260.00	1.70	4.56
BU250265021SD/U*	250.00	265.00	2.10	6.20
BU255270021SD/U*	255.00	270.00	2.10	6.20
BU260270017SD/U*	260.00	270.00	1.70	5.31
BU265280021SD/U*	265.00	280.00	2.10	6.75
BU270280017SD/U	270.00	280.00	1.70	6.37
BU275285017SD/U	275.00	285.00	1.70	7.16
BU275290021SD/U*	275.00	290.00	2.10	6.75
BU280290017SD/U*	280.00	290.00	1.70	8.83
BU285300027SD/U*	285.00	300.00	2.70	6.75
BU290300017SD/U	290.00	300.00	1.70	11.34
BU295310021SD/U	295.00	310.00	2.10	20.13
BU300310017SD/U	300.00	310.00	1.70	11.93
BU320330019SD/U*	320.00	330.00	1.90	14.75
BU325340027SD/U	325.00	340.00	2.70	13.67
BU335350027SD/U*	335.00	350.00	2.70	44.52
BU340355027SD/U	340.00	355.00	2.70	18.17
BU345360027SD/U*	345.00	360.00	2.70	18.17

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

SD/N & ST/N - Back-up Rings

Nylon



Temperature: -40/250F [-40/121C] **Pressure: N/A**

Ref.Number	Rod dia.	Bore dia.	Nominal Seal Dimention			$
			d	D	H	
BU008018020ST/N*	8.00	18.00	8.00	18.00	2.00	4.07
BU010020020ST/N*	10.00	20.00	10.00	20.00	2.00	4.07
BU014024020ST/N*	14.00	24.00	14.00	24.00	2.00	4.44
BU015028020ST/N*	15.00	28.00	15.00	28.00	2.00	4.67
BU016026020ST/N*	16.00	26.00	16.00	26.00	2.00	4.67
BU018026020ST/N*	18.00	26.00	18.00	26.00	2.00	4.67
BU018031020ST/N*	18.00	31.00	18.00	31.00	2.00	5.04
BU020028020ST/N*	20.00	28.00	20.00	28.00	2.00	4.81
BU020030020ST/N*	20.00	30.00	20.00	30.00	2.00	5.04
BU020033020ST/N*	20.00	33.00	20.00	33.00	2.00	5.18
BU022035020ST/N*	22.00	35.00	22.00	35.00	2.00	5.18
BU022030020ST/N*	22.40	30.00	22.40	30.00	2.00	5.26
BU022033020ST/N*	22.40	33.00	22.40	33.00	2.00	5.48
BU023031020ST/N*	23.50	31.50	23.50	31.50	2.00	5.04
BU025033020ST/N	25.00	33.00	25.00	33.00	2.00	5.18
BU025035015ST/N	25.00	35.00	25.00	35.00	1.50	5.19
BU025035020ST/N*	25.00	35.00	25.00	35.00	2.00	5.18
BU025035050ST/N*	25.00	35.00	25.00	35.00	5.00	10.62
BU025038020ST/N*	25.00	38.00	25.00	38.00	2.00	5.55
BU025035020ST/N-1*	25.50	35.50	25.50	35.50	2.00	5.18
BU027040030ST/N*	27.00	40.00	27.00	40.00	3.00	5.92
BU028035030ST/N*	28.00	35.00	28.00	35.00	3.00	5.93
BU028035030ST/N	28.00	35.50	28.00	35.50	3.00	5.92
BU028040030ST/N*	28.00	40.00	28.00	40.00	3.00	5.92
BU028041030ST/N*	28.00	41.00	28.00	41.00	3.00	5.92
BU030040015ST/N	30.00	40.00	30.00	40.00	1.50	5.93
BU030040030ST/N	30.00	40.00	30.00	40.00	3.00	7.37
BU030043030ST/N*	30.00	43.00	30.00	43.00	3.00	7.59
BU031041030ST/N*	31.50	41.50	31.50	41.50	3.00	7.37
BU031044030ST/N*	31.50	44.50	31.50	44.50	3.00	7.59
BU032042013ST/N	32.00	42.00	32.00	42.00	1.30	6.67
BU034050030ST/N*	34.00	50.00	34.00	50.00	3.00	8.37
BU035039025SD/N*	35.00	38.80	35.00	38.80	2.50	6.67
BU035045015ST/N	35.00	45.00	35.00	45.00	1.50	9.41
BU035045030ST/N	35.00	45.00	35.00	45.00	3.00	9.41
BU035050030ST/N*	35.00	50.00	35.00	50.00	3.00	6.67
BU035045030ST/N-1*	35.50	45.00	35.50	45.00	3.00	6.30

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

SD/N & ST/N SERIES - NYLON

Ref.Number	Rod dia.	Bore dia.	Nominal Seal Dimention			$
			d	D	H	
BU035051030ST/N*	35.50	51.50	35.50	51.50	3.00	6.67
BU036044015ST/N*	36.00	44.00	36.00	44.00	1.50	7.30
BU040050015ST/N	40.00	50.00	40.00	50.00	1.50	7.39
BU040050030ST/N	40.00	50.00	40.00	50.00	3.00	7.77
BU040053020ST/N*	40.00	53.00	40.00	53.00	2.00	8.52
BU040055030ST/N	40.00	55.00	40.00	55.00	3.00	7.23
BU040056030ST/N*	40.00	56.00	40.00	56.00	3.00	8.52
BU044064100SD/N	44.00	64.00	44.00	64.00	10.00	18.20
BU045055030ST/N	45.00	55.00	45.00	55.00	3.00	8.52
BU045056030ST/N*	45.00	56.00	45.00	56.00	3.00	8.52
BU045060030ST/N	45.00	60.00	45.00	60.00	3.00	7.43
BU045061030ST/N	45.00	61.00	45.00	61.00	3.00	8.89
BU047061030ST/N*	47.00	61.00	47.00	61.00	3.00	8.89
BU047063030ST/N*	47.00	63.00	47.00	63.00	3.00	9.26
BU048063030ST/N	48.00	63.00	48.00	63.00	3.00	7.91
BU049070100SD/N	49.30	70.00	49.30	70.00	10.00	6.70
BU050060020ST/N	50.00	60.00	50.00	60.00	2.00	8.76
BU050060030ST/N	50.00	60.00	50.00	60.00	3.00	8.89
BU050063020ST/N*	50.00	63.00	50.00	63.00	2.00	6.99
BU050063030ST/N	50.00	63.00	50.00	63.00	3.00	7.05
BU050065020ST/N	50.00	65.00	50.00	65.00	2.00	8.08
BU050065030ST/N	50.00	65.00	50.00	65.00	3.00	8.05
BU050066030ST/N*	50.00	66.00	50.00	66.00	3.00	6.99
BU050070030ST/N	50.00	70.00	50.00	70.00	3.00	7.65
BU050065030ST/N-1*	50.40	65.00	50.40	65.00	3.00	6.99
BU053063030ST/N*	53.00	63.00	53.00	63.00	3.00	9.26
BU055065030ST/N	55.00	65.00	55.00	65.00	3.00	7.77
BU055068030ST/N*	55.00	68.00	55.00	68.00	3.00	8.55
BU055070020ST/N*	55.00	70.00	55.00	70.00	2.00	8.42
BU055070030ST/N	55.00	70.00	55.00	70.00	3.00	8.62
BU055071030ST/N*	55.00	71.00	55.00	71.00	3.00	8.55
BU055075030ST/N*	55.00	75.00	55.00	75.00	3.00	7.94
BU056066030ST/N*	56.00	66.00	56.00	66.00	3.00	7.77
BU060070030ST/N	60.00	70.00	60.00	70.00	3.00	8.55
BU060071030ST/N*	60.00	71.00	60.00	71.00	3.00	8.54
BU060073030ST/N	60.00	73.00	60.00	73.00	3.00	8.71
BU060075030ST/N	60.00	75.00	60.00	75.00	3.00	9.04
BU060076030ST/N*	60.00	76.00	60.00	76.00	3.00	9.58
BU060080030ST/N	60.00	80.00	60.00	80.00	3.00	9.71
BU063073030ST/N*	63.00	73.00	63.00	73.00	3.00	8.80
BU064080030ST/N*	64.00	80.00	64.00	80.00	3.00	10.10
BU065075030ST/N	65.00	75.00	65.00	75.00	3.00	9.58
BU065078030ST/N	65.00	78.00	65.00	78.00	3.00	9.1
BU065080030ST/N	65.00	80.00	65.00	80.00	3.00	9.73
BU065085030ST/N*	65.00	85.00	65.00	85.00	3.00	10.40
BU067077030ST/N*	67.00	77.00	67.00	77.00	3.00	9.58
BU070080030ST/N	70.00	80.00	70.00	80.00	3.00	10.10
BU070083030ST/N	70.00	83.00	70.00	83.00	3.00	9.58

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

SD/N & ST/N SERIES - NYLON

Ref.Number	Rod dia.	Bore dia.	Nominal Seal Dimention			$
			d	D	H	
BU070085030ST/N	70.00	85.00	70.00	85.00	3.00	10.11
BU070090030ST/N	70.00	90.00	70.00	90.00	3.00	11.09
BU071080030ST/N*	71.00	80.00	71.00	80.00	3.00	10.10
BU071081030ST/N*	71.00	81.00	71.00	81.00	3.00	10.10
BU071091030ST/N*	71.00	91.00	71.00	91.00	3.00	11.91
BU074094100SD/N*	74.00	94.00	74.00	94.00	10.00	23.99
BU075085030ST/N	75.00	85.00	75.00	85.00	3.00	10.33
BU075088030ST/N	75.00	88.00	75.00	88.00	3.00	10.66
BU075090030ST/N	75.00	90.00	75.00	90.00	3.00	10.95
BU075095030ST/N	75.00	95.00	75.00	95.00	3.00	12.69
BU076090030ST/N*	76.00	90.00	76.00	90.00	3.00	12.64
BU080090030ST/N	80.00	90.00	80.00	90.00	3.00	14.24
BU080093030ST/N	80.00	93.00	80.00	93.00	3.00	10.95
BU080095030ST/N	80.00	95.00	80.00	95.00	3.00	11.40
BU080100030ST/N	80.00	100.00	80.00	100.00	3.00	16.57
BU085100030ST/N	85.00	100.00	85.00	100.00	3.00	16.57
BU085105030ST/N	85.00	105.00	85.00	105.00	3.00	18.13
BU086100030ST/N*	86.00	100.00	86.00	100.00	3.00	15.56
BU090095025ST/N	90.00	95.00	90.00	95.00	2.50	21.49
BU090105030ST/N	90.00	105.00	90.00	105.00	3.00	11.58
BU090105040ST/N*	90.00	105.00	90.00	105.00	4.00	18.99
BU090110030ST/N	90.00	110.00	90.00	110.00	3.00	19.16
BU092100015ST/N	92.00	100.00	92.00	100.00	1.50	18.60
BU095100025ST/N	95.00	100.00	95.00	100.00	2.50	21.49
BU095110030ST/N	95.00	110.00	95.00	110.00	3.00	19.16
BU095115030ST/N	95.00	115.00	95.00	115.00	3.00	20.46
BU098112030ST/N*	98.00	112.00	98.00	112.00	3.00	19.94
BU100105025ST/N	100.00	105.00	100.00	105.00	2.50	21.49
BU100115030ST/N	100.00	115.00	100.00	115.00	3.00	20.46
BU100120030ST/N	100.00	120.00	100.00	120.00	3.00	22.01
BU100125030ST/N*	100.00	125.00	100.00	125.00	3.00	21.14
BU100125035ST/N*	100.00	125.00	100.00	125.00	3.50	21.14
BU104110030ST/N	104.00	110.00	104.00	110.00	3.00	23.17
BU105110025ST/N*	105.00	110.00	105.00	110.00	2.50	23.17
BU105120030ST/N	105.00	120.00	105.00	120.00	3.00	22.22
BU105125030ST/N	105.00	125.00	105.00	125.00	3.00	23.56
BU106120030ST/N*	106.00	120.00	106.00	120.00	3.00	22.01
BU109115030ST/N	109.00	115.00	109.00	115.00	3.00	24.34
BU110125030ST/N	110.00	125.00	110.00	125.00	3.00	22.96
BU110130020ST/N*	110.00	130.00	110.00	130.00	2.00	18.11
BU110130030ST/N	110.00	130.00	110.00	130.00	3.00	23.92
BU112125030ST/N	112.00	125.00	112.00	125.00	3.00	23.56
BU112132030ST/N*	112.00	132.00	112.00	132.00	3.00	25.48
BU114120030ST/N	114.00	120.00	114.00	120.00	3.00	27.04
BU115130030ST/N	115.00	130.00	115.00	130.00	3.00	23.55
BU115130040ST/N	115.00	130.00	115.00	130.00	4.00	30.57
BU115135030ST/N	115.00	135.00	115.00	135.00	3.00	26.90
BU119125030ST/N	119.00	125.00	119.00	125.00	3.00	25.37

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

SD/N & ST/N SERIES - NYLON

Ref.Number	Rod dia.	Bore dia.	Nominal Seal Dimention			$
			d	D	H	
BU120135030ST/N	120.00	135.00	120.00	135.00	3.00	24.40
BU120140030ST/N	120.00	140.00	120.00	140.00	3.00	28.48
BU124130030ST/N	124.00	130.00	124.00	130.00	3.00	27.04
BU125145030ST/N	125.00	145.00	125.00	145.00	3.00	18.11
BU125140030ST/N	125.00	140.00	125.00	140.00	3.00	29.93
BU125150030ST/N*	125.00	150.00	125.00	150.00	3.00	32.37
BU128140030ST/N*	128.00	140.00	128.00	140.00	3.00	28.97
BU129135030ST/N	129.00	135.00	129.00	135.00	3.00	32.09
BU130145030ST/N	130.00	145.00	130.00	145.00	3.00	31.09
BU130145040ST/N	130.00	145.00	130.00	145.00	4.00	31.09
BU130150020ST/N	130.00	150.00	130.00	150.00	2.00	29.73
BU130150030ST/N	130.00	150.00	130.00	150.00	3.00	32.49
BU130150040ST/N	130.00	150.00	130.00	150.00	4.00	35.68
BU134140030ST/N	134.00	140.00	134.00	140.00	3.00	37.13
BU135150030ST/N	135.00	150.00	135.00	150.00	3.00	31.44
BU135155030ST/N*	135.00	155.00	135.00	155.00	3.00	33.49
BU135160030ST/N*	135.00	160.00	135.00	160.00	3.00	36.77
BU136150030ST/N*	136.00	150.00	136.00	150.00	3.00	32.37
BU139145030ST/N	139.00	145.00	139.00	145.00	3.00	37.79
BU140155030ST/N	140.00	155.00	140.00	155.00	3.00	32.33
BU140155040ST/N	140.00	155.00	140.00	155.00	4.00	32.34
BU140160030ST/N	140.00	160.00	140.00	160.00	3.00	34.37
BU140160040ST/N	140.00	160.00	140.00	160.00	4.00	36.93
BU140165030ST/N*	140.00	165.00	140.00	165.00	3.00	38.58
BU144150030ST/N	144.00	150.00	144.00	150.00	3.00	38.59
BU145160030ST/N	145.00	160.00	145.00	160.00	3.00	36.77
BU145160040ST/N	145.00	160.00	145.00	160.00	4.00	38.59
BU145165030ST/N*	145.00	165.00	145.00	165.00	3.00	35.44
BU145170030ST/N*	145.00	170.00	145.00	170.00	3.00	40.65
BU150165030ST/N	150.00	165.00	150.00	165.00	3.00	38.58
BU150165040ST/N*	150.00	165.00	150.00	165.00	4.00	38.58
BU150170030ST/N	150.00	170.00	150.00	170.00	3.00	36.78
BU152164030ST/N*	152.00	164.00	152.00	164.00	3.00	35.08
BU154160030ST/N	154.00	160.00	154.00	160.00	3.00	38.23
BU155170040ST/N*	155.00	170.00	155.00	170.00	4.00	40.65
BU155175040ST/N*	155.00	175.00	155.00	175.00	4.00	39.15
BU155180040ST/N*	155.00	180.00	155.00	180.00	4.00	45.31
BU160175040ST/N*	160.00	175.00	160.00	175.00	4.00	45.16
BU160180030ST/N	160.00	180.00	160.00	180.00	3.00	44.15
BU160180040ST/N	160.00	180.00	160.00	180.00	4.00	47.90
BU160185030ST/N*	160.00	185.00	160.00	185.00	3.00	44.15
BU160185035ST/N	160.00	185.00	160.00	185.00	3.50	45.57
BU160185040SD/N*	160.00	185.00	160.00	185.00	4.00	49.00
BU164170030ST/N	164.00	170.00	164.00	170.00	3.00	45.31
BU165180035ST/N*	165.00	180.00	165.00	180.00	3.50	41.24
BU165180040ST/N*	165.00	180.00	165.00	180.00	4.00	45.31
BU170180040ST/N*	170.00	180.00	170.00	180.00	4.00	45.31
BU170185040ST/N*	170.00	185.00	170.00	185.00	4.00	46.09

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

SD/N & ST/N SERIES - NYLON

Ref.Number	Rod dia.	Bore dia.	Nominal Seal Dimention			$
			d	D	H	
BU170190040ST/N	170.00	190.00	170.00	190.00	4.00	50.58
BU170190050ST/N	170.00	190.00	170.00	190.00	5.00	50.58
BU170190060ST/N	170.00	190.00	170.00	190.00	6.00	50.23
BU170195035ST/N	170.00	195.00	170.00	195.00	3.50	46.09
BU170200040ST/N*	170.00	200.00	170.00	200.00	4.00	54.89
BU174180030ST/N*	174.00	180.00	174.00	180.00	3.00	46.06
BU175190040ST/N*	175.00	190.00	175.00	190.00	4.00	49.98
BU175200040ST/N*	175.00	200.00	175.00	200.00	4.00	54.89
BU180192030ST/N*	180.00	192.00	180.00	192.00	3.00	48.38
BU180200040ST/N*	180.00	200.00	180.00	200.00	4.00	54.89
BU180205035ST/N	180.00	205.00	180.00	205.00	3.50	51.23
BU180205040ST/N*	180.00	205.00	180.00	205.00	4.00	57.48
BU180205050ST/N	180.00	205.00	180.00	205.00	5.00	57.48
BU184190030ST/N*	184.00	190.00	184.00	190.00	3.00	46.56
BU190200040ST/N*	190.00	200.00	190.00	200.00	4.00	54.89
BU190210040ST/N*	190.00	210.00	190.00	210.00	4.00	59.56
BU190210050ST/N*	190.00	210.00	190.00	210.00	5.00	58.20
BU200220030ST/N	200.00	220.00	200.00	220.00	3.00	61.13
BU200220040ST/N*	200.00	220.00	200.00	220.00	4.00	63.18
BU200225040ST/N	200.00	225.00	200.00	225.00	4.00	65.77
BU200225050ST/N*	200.00	225.00	200.00	225.00	5.00	65.77
BU204224040ST/N*	204.00	224.00	204.00	224.00	4.00	65.25
BU205220040ST/N*	205.00	220.00	205.00	220.00	4.00	63.18
BU210230030ST/N	210.00	230.00	210.00	230.00	3.00	61.13
BU210230040ST/N*	210.00	230.00	210.00	230.00	4.00	67.84
BU210235050ST/N	210.00	235.00	210.00	235.00	5.00	70.08
BU212224030ST/N*	212.00	224.00	212.00	224.00	3.00	64.31
BU220240040ST/N*	220.00	240.00	220.00	240.00	4.00	70.95
BU220245050ST/N*	220.00	245.00	220.00	245.00	5.00	70.76
BU225245040ST/N*	225.00	245.00	225.00	245.00	4.00	72.50
BU225250030ST/N*	225.00	250.00	225.00	250.00	3.00	73.02
BU225250040ST/N*	225.00	250.00	225.00	250.00	4.00	74.57
BU230250040ST/N*	230.00	250.00	230.00	250.00	4.00	74.57
BU230260050ST/N	230.00	260.00	230.00	260.00	5.00	78.36
BU240260040ST/N*	240.00	260.00	240.00	260.00	4.00	78.72
BU250270030ST/N*	250.00	270.00	250.00	270.00	3.00	76.27
BU250270040ST/N*	250.00	270.00	250.00	270.00	4.00	82.86
BU250275040ST/N*	250.00	275.00	250.00	275.00	4.00	84.93
BU250275060ST/N*	250.00	275.00	250.00	275.00	6.00	80.94
BU250280050ST/N	250.00	280.00	250.00	280.00	5.00	84.12
BU255280040ST/N*	255.00	280.00	255.00	280.00	4.00	87.00
BU260285040ST/N*	260.00	285.00	260.00	285.00	4.00	89.07
BU260290050ST/N	260.00	290.00	260.00	290.00	5.00	89.44
BU265290040ST/N*	265.00	290.00	265.00	290.00	4.00	90.63
BU265297040ST/N*	265.00	297.00	265.00	297.00	4.00	92.70
BU270295040ST/N*	270.00	295.00	270.00	295.00	4.00	92.70
BU270300040SD/N*	270.00	300.00	270.00	300.00	4.00	95.81
BU270300040ST/N*	270.00	300.00	270.00	300.00	4.00	95.81

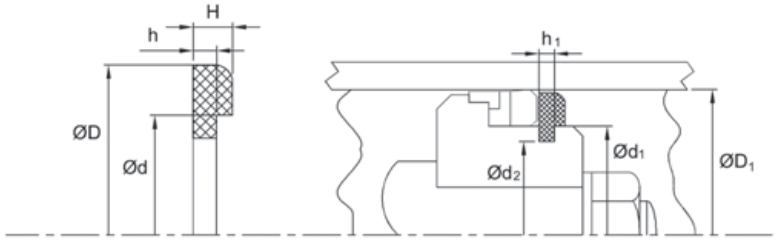
*** : GENERALLY NOT STOCKED BUT AVAILABLE - CHECK WITH C/SER**

SD/N & ST/N SERIES - NYLON

Ref.Number	Rod dia.	Bore dia.	Nominal Seal Dimention			$
			d	D	H	
BU275300040ST/N*	275.00	300.00	275.00	300.00	4.00	95.81
BU280305040ST/N*	280.00	305.00	280.00	305.00	4.00	96.84
BU280312040ST/N*	280.00	312.00	280.00	312.00	4.00	100.47
BU290310030ST/N*	290.00	310.00	290.00	310.00	3.00	96.84
BU290315040ST/N*	290.00	315.00	290.00	315.00	4.00	100.47
BU300320040ST/N*	300.00	320.00	300.00	320.00	4.00	100.47
BU300324040SD/N*	300.00	324.00	300.00	324.00	4.00	102.01
BU300325040ST/N*	300.00	325.00	300.00	325.00	4.00	102.02
BU300332040ST/N*	300.00	332.00	300.00	332.00	4.00	105.13
BU345375030ST/N*	345.00	375.00	345.00	375.00	3.00	105.13

KR - Retainer Rings

Polyacetal



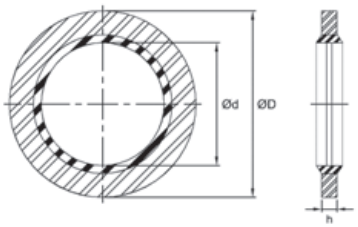
Temperature: -22/212F [-30/100C] **Pressure: N/A**

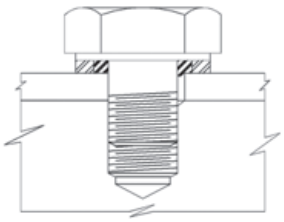
Ref.Number	Bore diameter		Nominal Seal Dimensions				Housing Dimensions					$
		Tol.	D	d	h	H	d1	d2	Tol.	h1	Tol.	
KR034022	34.00	+0.08 / -0.00	34.00	22.00	2.50	6.00	22.00	17.60	+0.00 / -0.25	2.60	+0.05 / -0.00	3.51
KR045035	45.00	+0.08 / -0.00	45.00	35.00	3.10	5.00	35.00	30.60	+0.00 / -0.25	3.20	+0.05 / -0.00	3.06
KR050030	50.00	+0.08 / -0.00	50.00	30.00	3.30	6.48	30.00	25.60	+0.00 / -0.25	3.40	+0.05 / -0.00	3.06
KR055040	55.00	+0.08 / -0.00	55.00	40.00	3.10	6.00	40.00	35.60	+0.00 / -0.25	3.20	+0.05 / -0.00	3.51
KR060040	60.00	+0.08 / -0.00	60.00	40.00	3.30	6.48	40.00	35.60	+0.00 / -0.25	3.40	+0.05 / -0.00	3.51
KR065045	65.00	+0.08 / -0.00	65.00	45.00	3.30	6.48	45.00	40.60	+0.00 / -0.25	3.40	+0.05 / -0.00	3.90
KR065050	65.00	+0.08 / -0.00	65.00	50.00	3.10	6.00	50.00	45.60	+0.00 / -0.25	3.20	+0.05 / -0.00	3.90
KR070050	70.00	+0.08 / -0.00	70.00	50.00	3.30	6.48	50.00	45.60	+0.00 / -0.25	3.40	+0.05 / -0.00	4.48
KR080060	80.00	+0.10 / -0.00	80.00	60.00	3.30	6.48	60.00	55.60	+0.00 / -0.25	3.40	+0.05 / -0.00	4.07
KR080065	80.00	+0.10 / -0.00	80.00	65.00	3.30	6.48	65.00	60.60	+0.00 / -0.25	3.40	+0.05 / -0.00	4.29
KR090070	90.00	+0.10 / -0.00	90.00	70.00	3.30	6.48	70.00	65.60	+0.00 / -0.25	3.40	+0.05 / -0.00	5.56
KR095075	95.00	+0.10 / -0.00	95.00	75.00	3.30	6.48	75.00	70.60	+0.00 / -0.25	3.40	+0.05 / -0.00	4.29
KR100080	100.00	+0.10 / -0.00	100.00	80.00	3.30	6.48	80.00	75.60	+0.00 / -0.25	3.40	+0.05 / -0.00	6.46
KR104085	104.50	+0.10 / -0.00	104.50	85.00	3.30	6.48	85.00	80.60	+0.00 / -0.25	3.40	+0.05 / -0.00	9.65
KR105085	105.00	+0.10 / -0.00	105.00	85.00	3.30	6.48	85.00	80.60	+0.00 / -0.25	3.40	+0.05 / -0.00	8.68
KR110090	110.00	+0.10 / -0.00	110.00	90.00	3.30	6.48	90.00	85.60	+0.00 / -0.25	3.40	+0.05 / -0.00	9.42
KR115095	115.00	+0.10 / -0.00	115.00	95.00	3.30	6.48	95.00	90.60	+0.00 / -0.25	3.40	+0.05 / -0.00	9.28
KR120100	120.00	+0.10 / -0.00	120.00	100.00	3.30	6.48	100.00	85.60	+0.00 / -0.25	3.40	+0.05 / -0.00	7.58
KR125105	125.00	+0.10 / -0.00	125.00	105.00	3.30	6.48	105.00	100.60	+0.00 / -0.25	3.40	+0.05 / -0.00	9.58
KR130110	130.00	+0.10 / -0.00	130.00	110.00	3.30	6.48	110.00	105.60	+0.00 / -0.25	3.40	+0.05 / -0.00	9.58

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

USIT RINGS

Carbon Steel/NBR





Temperature: -65/225F [-54/107C] **Pressure: N/A**

Ref.Number	Nominal Ring Dimensions			$	Ref.Number	Nominal Ring Dimensions			$
	d	D	H			d	D	H	
BS004007010*	4.10	7.20	1.00	4.32	BS013022015*	13.70	22.00	1.50	3.79
BS004007010-1*	4.50	7.00	1.00	4.32	BS014018015	14.00	18.70	1.50	3.58
BS004009010*	4.60	9.00	1.00	2.23	BS014021015*	14.70	21.00	1.50	2.63
BS005009010*	5.70	9.00	1.00	3.68	BS014022015	14.70	22.00	1.50	3.79
BS005010010*	5.60	10.00	1.00	2.21	BS014022015SC	14.70	22.00	1.50	3.79
BS005010010-1*	5.70	10.00	1.00	3.64	BS016022015	16.00	22.70	1.50	3.64
BS006009010*	6.20	9.20	1.00	3.68	BS016023015*	16.70	23.00	1.50	2.68
BS006010010*	6.70	10.00	1.00	3.68	BS016024015	16.70	24.00	1.50	4.19
BS006011010	6.60	11.00	1.00	2.21	BS016024015SC	16.70	24.00	1.50	4.19
BS006011010-1*	6.70	11.00	1.00	3.64	BS017022012*	17.35	22.70	1.25	2.78
BS006011025*	6.70	11.00	2.50	3.64	BS017023015*	17.40	23.70	1.50	2.74
BS006013013*	6.85	13.27	1.30	2.33	BS017023021*	17.20	23.90	2.10	3.07
BS007010010*	7.30	10.20	1.00	3.68	BS017024015*	17.40	24.00	1.50	4.12
BS007011010*	7.00	11.40	1.00	2.21	BS018024015*	18.00	24.70	1.50	4.15
BS007012010*	7.10	12.00	1.00	3.74	BS018026015	18.70	26.00	1.50	4.23
BS008012012	8.30	12.70	1.25	2.51	BS018026015SC	18.70	26.00	1.50	4.23
BS008013010	8.50	13.40	1.00	3.58	BS018027015*	18.70	27.00	2.00	3.18
BS008013010-1*	8.70	13.00	1.00	3.21	BS020028015*	20.70	28.00	1.50	4.23
BS008013010-2*	8.70	13.00	1.00	2.28	BS020029020	20.70	29.00	2.00	3.27
BS008014010*	8.70	14.00	1.00	3.21	BS021026012*	21.65	26.70	1.25	3.03
BS008016010*	8.70	16.00	1.00	3.42	BS021028025	21.50	28.70	2.50	4.23
BS009013010	9.30	13.30	1.00	3.27	BS021030020*	21.70	30.00	2.00	3.47
BS010014012*	10.40	14.70	1.25	2.51	BS022028015*	22.50	28.00	1.50	7.87
BS010016015	10.70	16.00	1.50	3.47	BS022030020*	22.70	30.00	2.00	4.70
BS010016020	10.35	16.00	2.00	3.64	BS022030030*	22.70	30.00	3.00	8.00
BS010016020-1	10.37	15.88	2.03	2.51	BS022031020*	22.70	31.00	2.00	3.47
BS010017015	10.70	17.00	1.50	2.51	BS023032020*	23.70	32.00	2.00	3.49
BS010018015	10.70	18.00	1.50	3.52	BS024032020*	24.70	32.00	2.00	4.70
BS011016015*	11.40	16.30	1.50	3.27	BS024033020*	24.70	33.00	2.00	3.52
BS011018015	11.80	18.10	1.50	3.79	BS026035020	26.70	35.00	2.00	5.21
BS011018015-1	11.80	18.50	1.50	2.56	BS027032012*	27.30	32.60	1.25	3.48
BS011019015*	11.80	19.10	1.50	3.79	BS027032020*	27.30	32.60	2.00	3.60
BS012018015*	12.70	18.00	1.50	3.52	BS027035020*	27.00	35.30	2.00	3.61
BS012019015*	12.70	19.00	1.50	2.56	BS027036020*	27.20	36.00	2.00	5.21
BS012020015	12.70	20.00	1.50	3.79	BS027036020*	27.70	36.00	2.00	3.62
BS013018012*	13.85	18.70	1.25	2.68	BS028036020*	28.60	36.00	2.00	3.62
BS013020015	13.70	20.00	1.50	3.79	BS028037020*	28.70	37.00	2.00	5.21
BS013020015-1*	13.80	20.10	1.50	2.59	BS029037020*	29.20	37.50	2.00	3.66

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

USIT RINGS - CARBON STEEL/NBR

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BS030039020*	30.70	39.00	2.00	3.76
BS031039020*	31.00	39.00	2.00	5.21
BS033042020*	33.70	42.00	2.00	5.49
BS034039020*	34.20	39.50	2.00	3.80
BS034043020*	34.30	43.00	2.00	5.49
BS036046020*	36.70	46.00	2.00	6.48
BS037048025*	37.00	48.00	2.50	5.36
BS040051025*	40.00	51.00	2.50	13.00
BS042049020*	42.80	49.50	2.00	7.01
BS042053030*	42.70	53.00	3.00	11.41
BS043054025*	43.00	54.00	2.50	6.88
BS046057025*	46.00	57.00	2.50	6.88

Ref.Number	Nominal Ring Dimensions			$
	d	D	H	
BS048055020*	48.70	55.50	2.00	6.29
BS048059030*	48.70	59.00	3.00	11.49
BS049060025*	49.00	60.00	2.50	8.36
BS052060030*	52.00	60.00	3.00	13.83
BS053064030*	53.30	64.50	3.00	18.23
BS060068020*	60.50	68.50	2.00	9.32
BS060073030*	60.70	73.00	3.00	11.28
BS068079035*	68.60	79.50	3.50	26.69
BS076090033*	76.08	90.30	3.38	28.53
BS089101032*	89.09	101.48	3.25	30.68
BS127143050*	127.00	143.67	5.00	35.66

*** : 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"
6.90	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	2.50									

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Seal Source Inc.

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

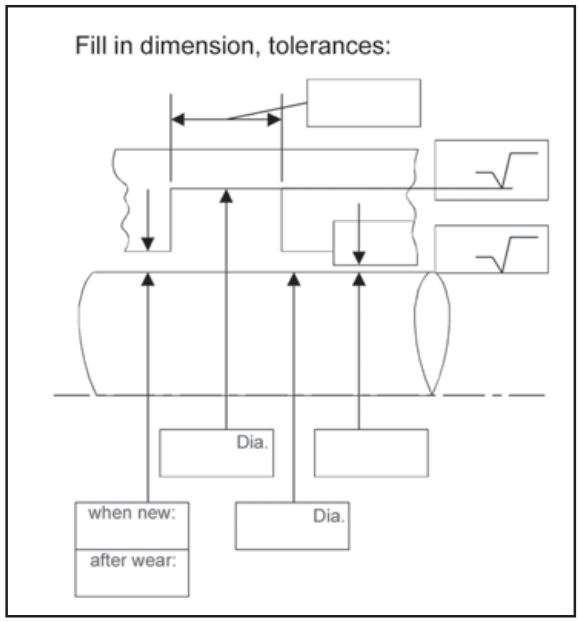
FIRM NAME:	CITY, STATE	PHONE	FAX
1.			
2.			
3.			

SIGNED BY: _____ TITLE: _____

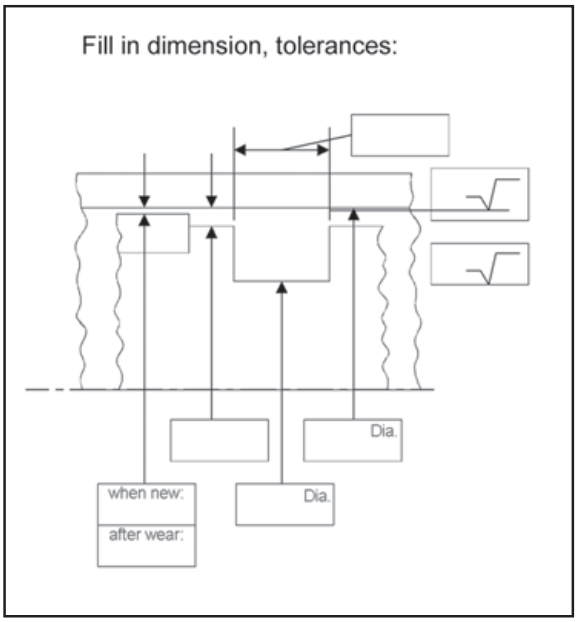
SEAL APPLICATION REQUEST

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:

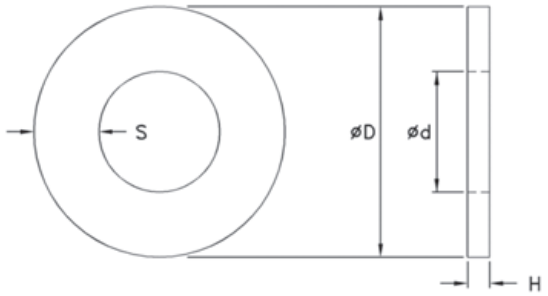
PTFE (Teflon)		
TFE/GF 15		15% Glass filled PTFE
TFE/GF15M		15% Glass & Moly filled PTFE
	TFE/BR40	40% Bronze filled PTFE
	TFE/BR60	60% Bronze filled PTFE
	TFE/CG	Carbon-Graphite filled PTFE
NYLONS		
6TMOS2		Moly filled Nylon
NYLON-GF		Glass filled Nylon
NYLOIL		Mineral filled Nylon
THERMOPLASTICS		
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.

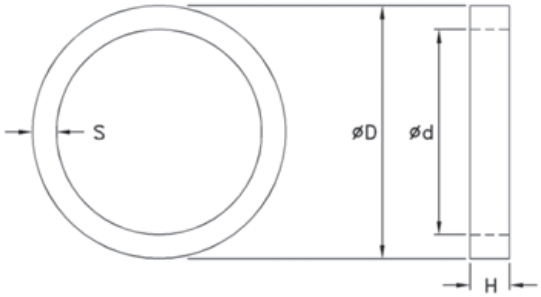
<u>Additional services available from our vast selection of materials and components:</u>
Vee Packings cut in-house to 40" / 1000MM Diameter
Vulcanized O-Rings: Any size of inch or metric cross sections in a complete range of standard and non-standard compounds. Proto-type and production quantities available for all special parts

SELECTION CHART FOR SEAL MANUFACTURING

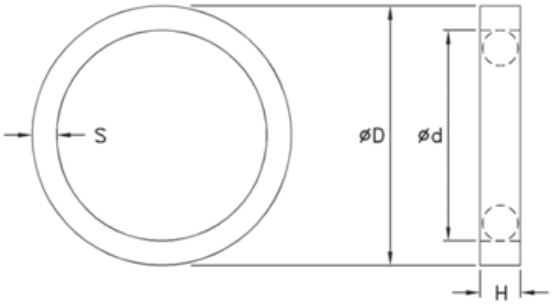
☐ **BACKUP RING**



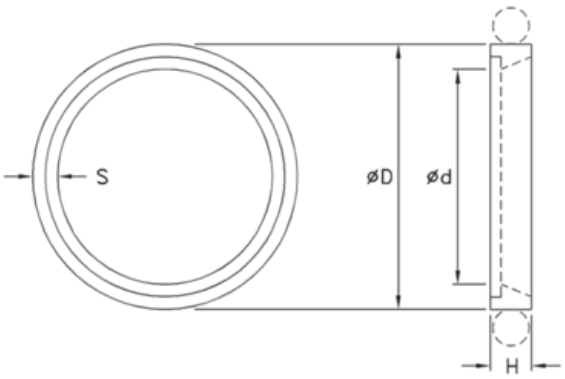
☐ **BEARING**



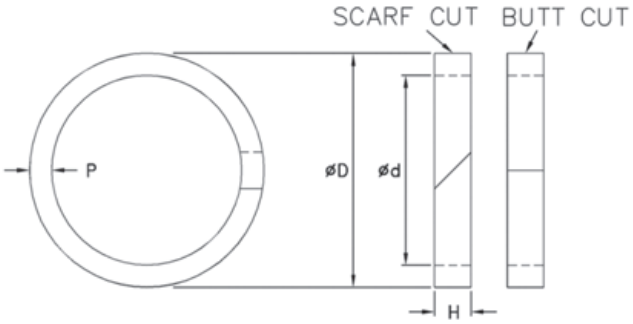
☐ **PISTON SEAL**



☐ **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.

ALPHABETICAL INDEX

A

Anti-extrusion rings
- Inch G52-G68
- Metric L31, O53-O63

Asymmetrical U-cups
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  - Rod, light duty B2-B15, B17
  - Rod, w/anti-extrusion ring B18-B20
  - Rod, standard B2-B15
  - Rod, pneumatic B15
  - Piston, heavy duty D2-D7
  - Piston, light duty D2-D7
  - Piston, standard D2-D7
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  - Double lip rod seal B9-B15
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  - Rod, w/anti-extrustion ring J30

B

Backup Rings
- Inch G52-G68
  - Buna-n rubber G52
  - Poly-temp G52, G67
  - Nylon G56
  - PTFE G52, G67
  - Urethane G52
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  - Urethane O55
  - PTFE O53

Bearings
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