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**MISCELLANEOUS
ACCESSORIES**



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.

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	$\geq 2.5 \mu\text{m}$	$\geq 12 \mu\text{m}$


No special machining is required since the V-ring adheres firmly to the shaft.

TYPE A



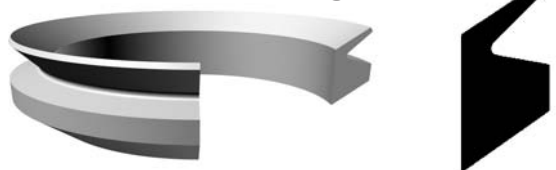
The most common style available in the widest range of sizes from 2.7mm shaft to 2020mm nitrile and fluoroelastomer. Ideal for conveyor rollers and appliances.

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



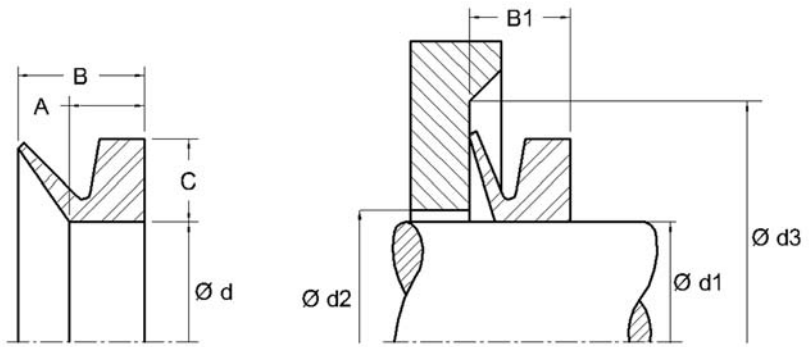
A heavy duty large-diameter style designed to operate in severe running conditions. The unique body can accommodate radial and axial support in high shaft speed applications. This V-ring can be trimmed to meet existing space requirements, (with a minimum fitted width of 42.5mm). Available in sizes from 300mm shaft to 3000mm in nitrile only. The RM is a made-to-order item.

NOTE: MINIMUM LINE ORDER MAY APPLY

V-RINGS - TYPE A

Type A

Profile and installation dimensions



Ref. Number	For shaft diameter		Section height	Section width			Diameter		CR Reference (NBR)	
	d1 min.	d1 max.		Ød	c	A	B (before installation)	B1 (after installation)		max. d2
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
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
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
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
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
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
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
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
V-0013A	12.50	13.50	11.70	3.00	3.40	5.50	4.50 +/- 0.60	d1 + 1.00	d1 + 9.00	400130
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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ACCESSORIES



V-RINGS - TYPE A

Ref. Number	For shaft diameter		Ød	Section height c	Section width			Diameter		CR Reference (NBR)
	d1				A	B (before installation)	B1 (after installation)	max. d2	min. d3	
	min.	max.								
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

NOTE: MINIMUM LINE ORDER MAY APPLY

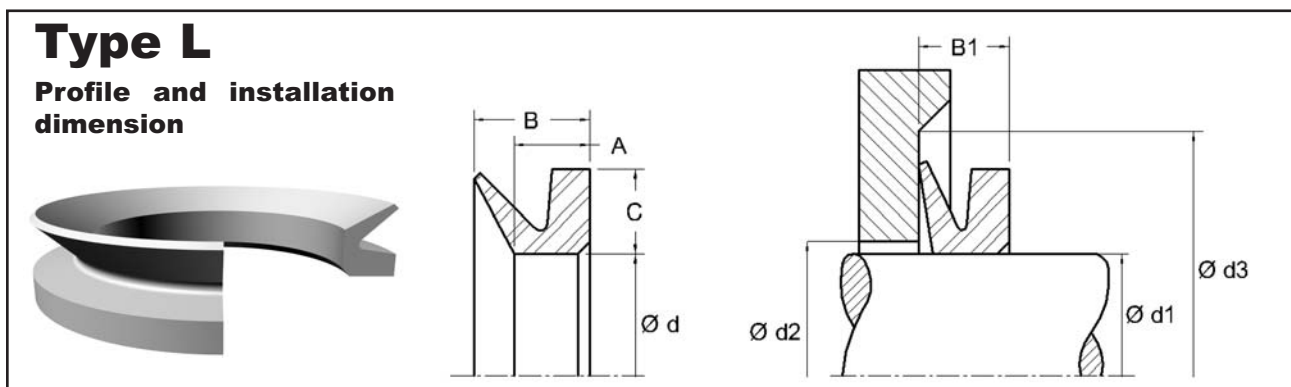
MISCELLANEOUS ACCESSORIES



V-RINGS - TYPE A

Ref. Number	For shaft diameter		Ød	Section height c	Section width			Diameter		CR Reference (NBR)
	d1				A	B (before installation)	B1 (after installation)	max. d2	min. d3	
	min.	max.								
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
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
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
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
V-2100A	2020.00 - 2070.00		1855.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 +10.00	d1 +45.00	421000
V-2500A	2070.00 - 2120.00		1900.00	15.00	14.30	25.00	20.00 +/- 4.00	d1 +10.00	d1 +45.00	425000

V-RINGS - TYPE L



Ref. Number	For shaft diameter		Ød	Section height c	Section width			Diameter		CR Reference (NBR)
	d1				A	B (before installation)	B1 (after installation)	max. d2	min. d3	
	min.	max.								
V-0110L	105.00 - 115.00		99.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0120L	115.00 - 125.00		108.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0130L	125.00 - 135.00		117.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0140L	135.00 - 145.00		126.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	401402
V-0150L	145.00 - 155.00		135.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	401502
V-0160L	155.00 - 165.00		144.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	401602
V-0170L	165.00 - 175.00		153.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	401702
V-0180L	175.00 - 185.00		162.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	401802
V-0190L	185.00 - 195.00		171.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	401902
V-0200L	195.00 - 210.00		182.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	402002
V-0220L	210.00 - 233.00		198.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	402202
V-0250L	233.00 - 260.00		225.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	402502
V-0275L	260.00 - 285.00		247.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	402752
V-0300L	285.00 - 310.00		270.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	403002
V-0325L	310.00 - 335.00		292.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	403252
V-0350L	335.00 - 365.00		315.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	403502
V-0375L	365.00 - 385.00		337.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	403752
V-0400L	385.00 - 410.00		360.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	404002
V-0425L	410.00 - 440.00		382.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	404252
V-0450L	440.00 - 475.00		405.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	404502
V-0500L	475.00 - 510.00		450.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	405002

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V-RINGS - TYPE L

Ref. Number	For shaft diameter		Ød	Section height c	Section width			Diameter		CR Reference (NBR)
	d1				A	B (before installation)	B1 (after installation)	max. d2	min. d3	
	min.	max.								
V-0525L	510.00	540.00	472.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	405252
V-0550L	540.00	575.00	495.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	405502
V-0600L	575.00	625.00	540.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	406002
V-0650L	625.00	675.00	600.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0700L	675.00	710.00	630.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0725L	710.00	740.00	670.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0750L	740.00	775.00	705.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	407502
V-0800L	775.00	825.00	745.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0850L	825.00	875.00	785.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-0900L	875.00	925.00	825.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	409002
V-0950L	925.00	975.00	865.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1000L	975.00	1025.00	910.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1050L	1025.00	1075.00	955.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1100L	1075.00	1125.00	1000.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1150L	1125.00	1175.00	1045.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	411502
V-1200L	1175.00	1225.00	1090.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	412002
V-1250L	1225.00	1275.00	1135.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1300L	1275.00	1325.00	1180.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1350L	1325.00	1375.00	1225.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	413502
V-1400L	1375.00	1425.00	1270.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1450L	1425.00	1475.00	1315.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1500L	1475.00	1525.00	1360.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1550L	1525.00	1575.00	1405.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1600L	1575.00	1625.00	1450.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1650L	1625.00	1675.00	1495.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1700L	1675.00	1725.00	1540.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1750L	1725.00	1775.00	1585.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1800L	1775.00	1825.00	1630.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1850L	1825.00	1875.00	1675.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1900L	1875.00	1925.00	1720.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-1950L	1925.00	1975.00	1765.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	
V-2000L	1975.00	2025.00	1810.00	6.50	6.00	10.50	8.00 +/- 1.50	d1 + 5.00	20.00	

N.B.: MINIMUM LINE ORDER MAY APPLY

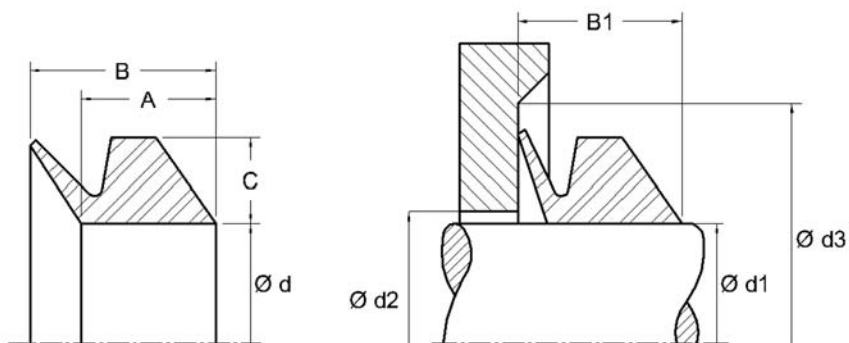
MISCELLANEOUS ACCESSORIES



V-RINGS - TYPE S

Type S

Profile and installation dimensions



MISCELLANEOUS
ACCESSORIES

Ref. Number	For shaft diameter		Ød	Section height c	Section width			Diameter		CR Reference (NBR)
	d1 min.	d1 max.			A	B (before installation)	B1 (after installation)	max. d2	min. d3	
V-0005S	4.50	5.50	4.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	6.00	400051
V-0006S	5.50	6.50	5.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	6.00	400061
V-0007S	6.50	8.00	6.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	6.00	400071
V-0008S	8.00	9.50	7.00	2.00	3.90	5.20	4.50 +/- 0.40	d1 + 1.00	6.00	400081
V-0010S	9.50	11.50	9.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	9.00	400101
V-0012S	11.50	13.50	10.50	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	9.00	400121
V-0014S	13.50	15.50	12.50	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	9.00	400141
V-0016S	15.50	17.00	14.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	9.00	400161
V-0018S	17.50	19.00	16.00	3.00	5.60	7.70	6.70 +/- 0.60	d1 + 1.00	9.00	400181
V-0020S	19.00	21.00	18.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400201
V-0022S	21.00	24.00	20.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400221
V-0025S	24.00	27.00	22.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400251
V-0028S	27.00	29.00	25.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400281
V-0030S	29.00	31.00	27.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400301
V-0032S	31.00	33.00	29.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400321
V-0035S	33.00	36.00	31.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400351
V-0038S	36.00	38.00	34.00	4.00	7.90	10.50	9.00 +/- 0.80	d1 + 2.00	12.00	400381
V-0040S	38.00	43.00	36.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	15.00	400401
V-0045S	43.00	48.00	40.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	15.00	400451
V-0050S	48.00	53.00	45.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	15.00	400501
V-0055S	53.00	58.00	49.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	15.00	400551
V-0060S	58.00	63.00	54.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	15.00	400601
V-0065S	63.00	68.00	58.00	5.00	9.50	13.00	11.00 +/- 1.00	d1 + 2.00	15.00	400651
V-0070S	68.00	73.00	63.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	18.00	400701
V-0075S	73.00	78.00	67.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	18.00	400751
V-0080S	78.00	83.00	72.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	18.00	400801
V-0085S	83.00	88.00	76.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	18.00	400851
V-0090S	88.00	93.00	81.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	18.00	400901
V-0095S	93.00	98.00	85.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	18.00	400951
V-0100S	98.00	105.00	90.00	6.00	11.30	15.50	13.50 +/- 1.20	d1 + 3.00	18.00	401001
V-0110S	105.00	115.00	99.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	21.00	401101
V-0120S	115.00	125.00	108.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	21.00	401201
V-0130S	125.00	135.00	117.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	21.00	401301
V-0140S	135.00	145.00	126.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	21.00	401401
V-0150S	145.00	155.00	135.00	7.00	13.10	18.00	15.50 +/- 1.50	d1 + 4.00	21.00	401501

NOTE: MINIMUM LINE ORDER MAY APPLY

Tel.: 1-888-609-SEAL
Fax: 1-888-717-SEAL

H 7

www.sealsourceinc.com



V-RINGS - TYPE S

Ref. Number	For shaft diameter		Ød	Section height c	Section width			Diameter		CR Reference (NBR)
	d1 min.	d1 max.			A	B (before installation)	B1 (after installation)	max. d2	min. d3	
V-0160S	155.00	165.00	144.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	24.00	401601
V-0170S	165.00	175.00	153.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	24.00	401701
V-0180S	175.00	185.00	162.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	24.00	401801
V-0190S	185.00	195.00	171.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	24.00	401901
V-0199S	195.00	210.00	180.00	8.00	15.00	20.50	18.00 +/- 1.80	d1 + 4.00	24.00	401991

















































V-RING - TYPE S



NOTE: MINIMUM LINE ORDER MAY APPLY

MISCELLANEOUS
ACCESSORIES

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 		

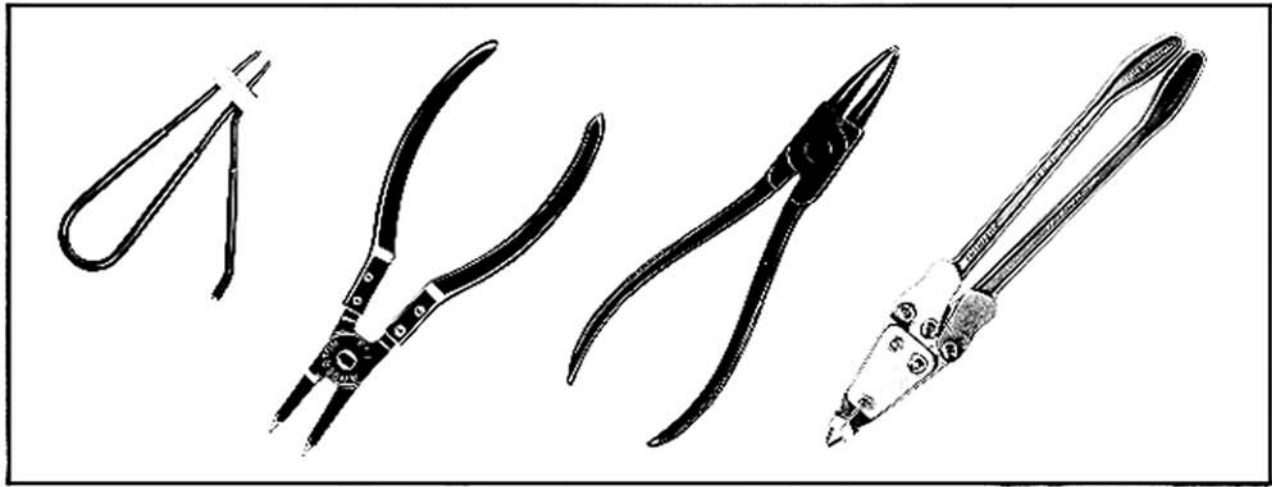




**FOR 1300
INTERNAL
CIRCLIPS**

Plier Type	Circlip Sizes (mm)
Mini Internal	8
ISS & IBS	14 - 63
ISL & IBL	63 - 82
HC1 & HD1	8 - 17
HC2 & HD2	18 - 62
HC3 & HD3	63 - 95
HC4 & HD4	85 - 140
Major Internal	105 - 300
Super Major Internal	260 Upwards

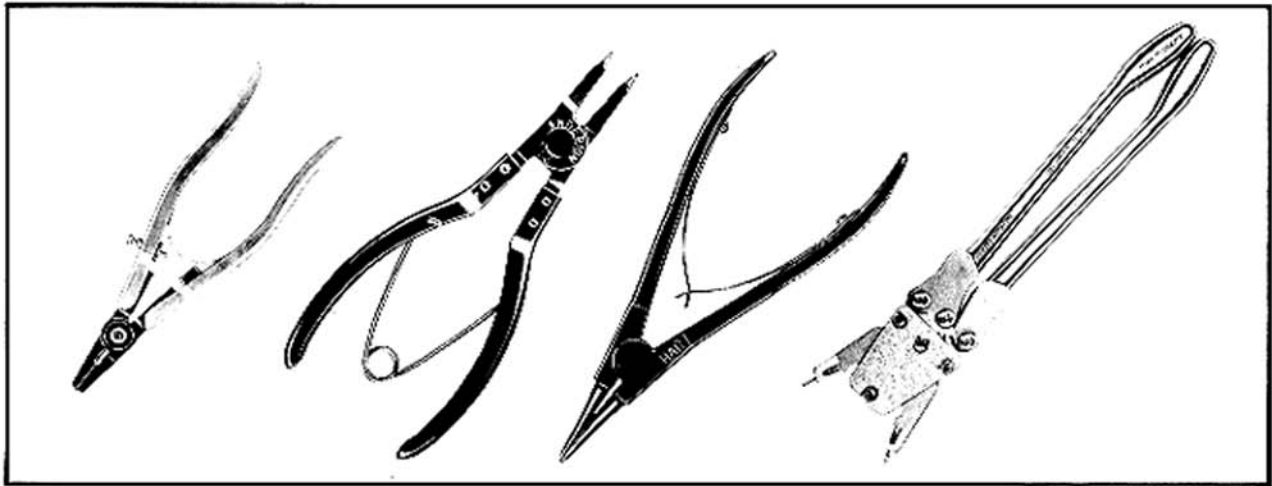
Plier Type	American Circlip Sizes
Mini Internal	25 - 31
ISS	62 - 250
ISL	256 - 347
Major Internal	350 - 950
Super Major Internal	625 Upwards



**FOR 1400
EXTERNAL
CIRCLIPS**

Plier Type	Circlip Sizes (mm)
Mini A External	3
Mini B External	4 - 5
Mini C External	6 - 9
ESS & EBS	13 - 63
ESL & EBL	65 - 82
HA0	6 - 11
HA1 & HB1	10 - 22
HA2 & HB2	20 - 35
HA3 & HB3	36 - 102
HA4 & HB4	85 - 140
Major External	90 - 305
Super Major External	260 Upwards

Plier Type	American Circlip Sizes
Mini A External	12 - 23
Mini B External	25 - 35
ESS & EBS	93 - 250
ESL & EBL	255 - 343
Major External	275 - 975
Super Major External	675 Upwards

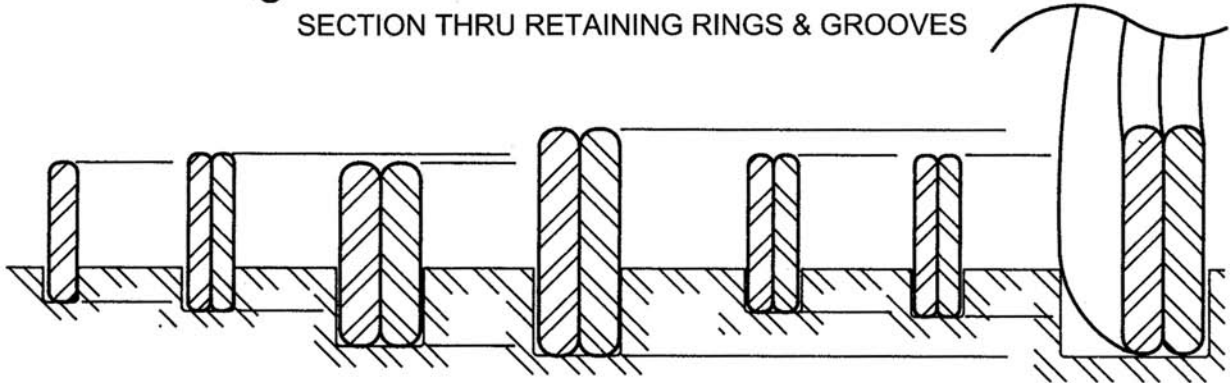


Selection Guide

MISCELLANEOUS
ACCESSORIES

Relative proportions of retaining rings with same housing bore or shaft dimension.

SECTION THRU RETAINING RINGS & GROOVES



VH & VS
Light Duty Series

WH & WS
Medium Duty Series

WHT & WST
Medium Heavy Duty Series

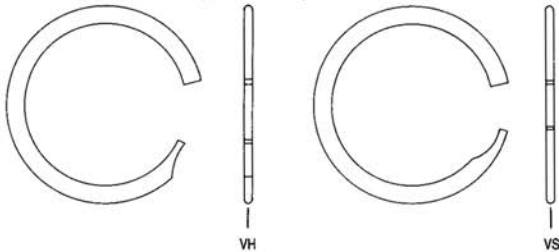
WHM & WSM
Heavy Duty Series

DNH & DNS
DIN Metric Series

EH & ES
Metric Aerospace Series

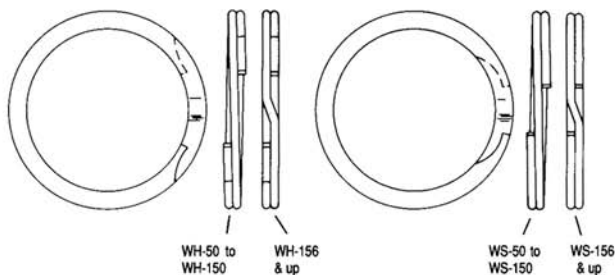
WHW & WSW
WaveRing Series

VH & VS Light Duty Series



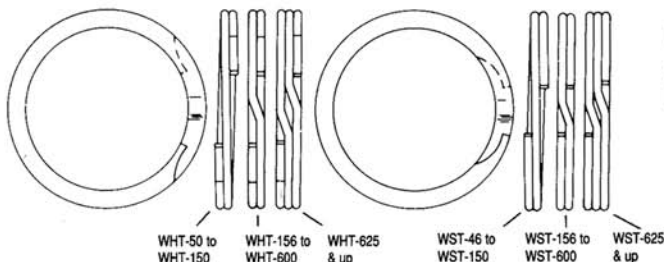
Single-turn retaining rings with narrow radial wall dimensions are recommended for light-duty, low clearance applications, or where axial positioning rather than load carrying is the principal function. Low-cost and easy to use, these rings are ideal for ball or roller bearing applications or other uses 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

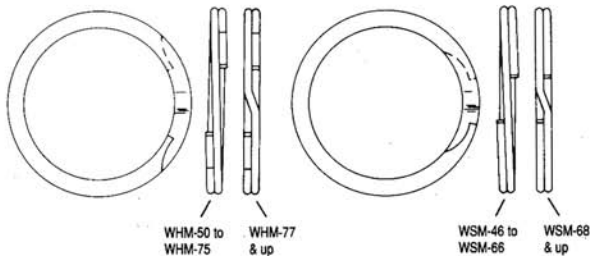


Many original equipment manufacturers have set groove dimensions specifically for these series. While easier to install, this series has load carrying ratings close to our heavy duty ring designs.



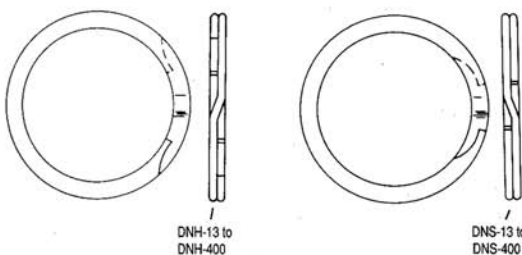
Selection Guide

WHM & WSM Heavy Duty Series



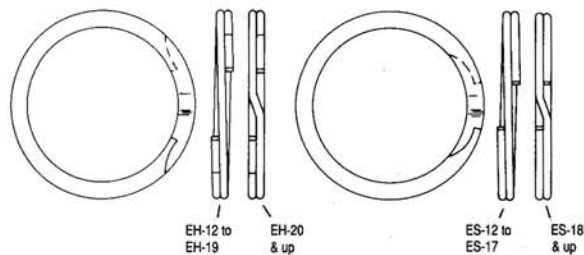
Designed for the toughest retaining ring jobs, this series can handle double row, tapered roller bearing applications, or other thrust loads which demand deep groove, heavy section capacity. WHM and WSM series rings use standard industry groove dimensions and are interchangeable with many stamped (ie: 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



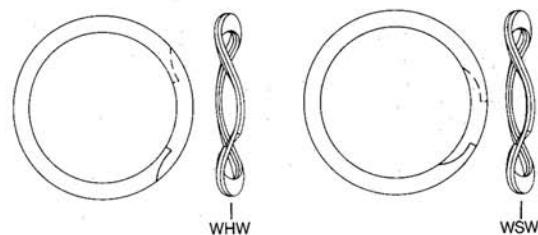
These DIN series retaining rings are Smalley's equivalent to the European or "Hard" metric retaining rings. With their 2-turn offset configuration, the rings will fit into the grooves established by DIN specifications. They are available in both internal and external sizes from 13mm to 400mm and are 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.

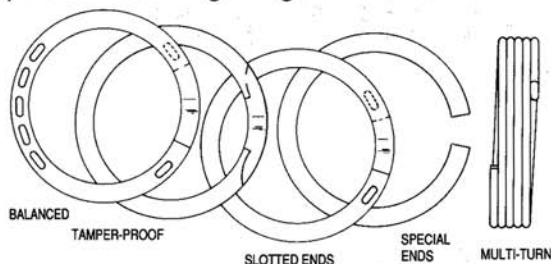
WaveRings®



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

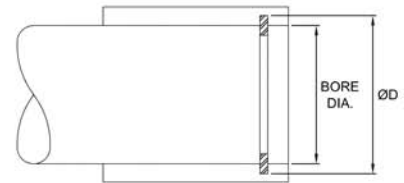
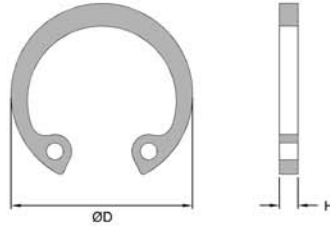


A major segment of Smalley manufacturing is in "special" or prototype retaining rings. Common Smalley specials include balanced, multi-turn (4,5,6 turns and more) and special ends in English and metric diameters from 3/8" to 84" and larger. See pages 50-51 for special ordering guidelines.

N1300 - Retaining Rings

Carbon Steel

INTERNAL



Temperature: N/A

Pressure: N/A

Ref.Number	Bore Dia.	Nominal Ring Dimensions		\$	Ref.Number	Bore Dia.	Nominal Ring Dimensions		\$
		D	H				D	H	
N1300-0025	0.280	0.015	0.250	0.48	N1300-0200	2.210	0.062	2.000	2.09
N1300-0031	0.346	0.015	0.312	0.48	N1300-0206	2.280	0.078	2.062	2.22
N1300-0037	0.415	0.025	0.375	0.48	N1300-0212	2.350	0.078	2.125	2.38
N1300-0043	0.482	0.025	0.437	0.48	N1300-0218	2.415	0.078	2.187	2.38
N1300-0050	0.548	0.035	0.500	0.48	N1300-0225	2.490	0.078	2.250	2.38
N1300-0051	0.560	0.035	0.512	0.48	N1300-0231	2.560	0.078	2.312	2.38
N1300-0056	0.620	0.035	0.562	0.48	N1300-0237	2.630	0.078	2.375	2.38
N1300-0062	0.694	0.035	0.625	0.48	N1300-0244	2.702	0.078	2.440	2.47
N1300-0068	0.763	0.035	0.687	0.48	N1300-0250	2.775	0.078	2.500	2.64
N1300-0075	0.831	0.035	0.750	0.51	N1300-0256	2.844	0.093	2.562	3.05
N1300-0077	0.859	0.042	0.777	0.51	N1300-0262	2.910	0.093	2.625	4.91
N1300-0081	0.901	0.042	0.812	0.51	N1300-0268	2.980	0.093	2.687	4.91
N1300-0086	0.961	0.042	0.866	0.51	N1300-0275	3.050	0.093	2.750	4.91
N1300-0087	0.971	0.042	0.875	0.51	N1300-0281	3.121	0.093	2.812	5.45
N1300-0090	1.000	0.042	0.901	0.51	N1300-0287	3.191	0.093	2.875	5.45
N1300-0093	1.041	0.042	0.937	0.51	N1300-0300	3.325	0.093	3.000	5.45
N1300-0100	1.111	0.042	1.000	0.51	N1300-0306	3.418	0.109	3.062	5.45
N1300-0102	1.136	0.042	1.023	0.51	N1300-0312	3.488	0.109	3.125	6.17
N1300-0106	1.180	0.050	1.062	0.51	N1300-0315	3.523	0.109	3.156	6.17
N1300-0112	1.249	0.050	1.125	0.53	N1300-0325	3.623	0.109	3.250	6.44
N1300-0118	1.319	0.050	1.187	0.82	N1300-0347	3.857	0.109	3.437	6.44
N1300-0125	1.388	0.050	1.250	0.82	N1300-0350	3.890	0.109	3.500	6.44
N1300-0131	1.456	0.050	1.312	0.82	N1300-0354	3.936	0.109	3.543	6.62
N1300-0137	1.526	0.050	1.375	0.82	N1300-0362	4.024	0.109	3.625	7.30
N1300-0143	1.596	0.050	1.437	0.82	N1300-0375	4.157	0.109	3.750	7.43
N1300-0145	1.616	0.050	1.456	0.82	N1300-0387	4.291	0.109	3.875	7.84
N1300-0150	1.660	0.050	1.500	0.82	N1300-0393	4.358	0.109	3.937	7.84
N1300-0156	1.734	0.062	1.562	1.11	N1300-0400	4.424	0.109	4.000	7.84
N1300-0162	1.804	0.062	1.625	1.11	N1300-0412	4.558	0.109	4.125	9.42
N1300-0165	1.835	0.062	1.653	1.11	N1300-0425	4.691	0.109	4.250	9.42
N1300-0168	1.874	0.062	1.687	2.09	N1300-0433	4.756	0.109	4.331	9.42
N1300-0175	1.942	0.062	1.750	2.09	N1300-0450	4.940	0.109	4.500	9.42
N1300-0181	2.012	0.062	1.812	2.09	N1300-0462	5.076	0.109	4.625	10.82
N1300-0185	2.054	0.062	1.850	2.09	N1300-0475	5.213	0.109	4.750	11.75
N1300-0187	2.072	0.062	1.875	2.09	N1300-0500	5.485	0.109	5.000	12.03
N1300-0193	2.141	0.062	1.937	2.09	N1300-0525	5.770	0.125	5.250	12.17

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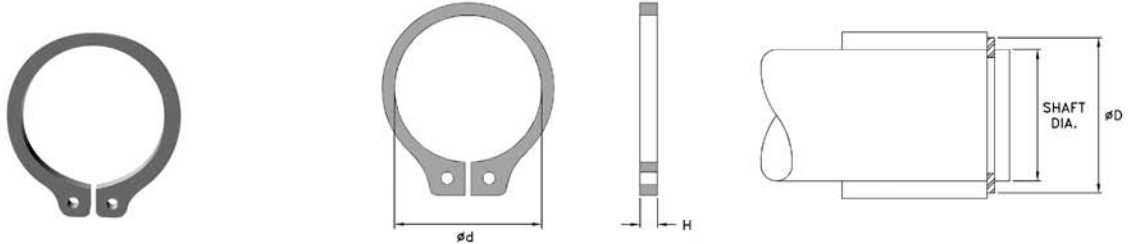
N1300 SERIES - RETAINING RING

Ref.Number	Bore Dia.	Nominal Ring Dimensions		\$	Ref.Number	Bore Dia.	Nominal Ring Dimensions		\$
		D	H				D	H	
N1300-0537	5.910	0.125	5.375	12.17	N1300-0775	8.545	0.187	7.750	64.16
N1300-0550	6.066	0.125	5.500	14.11	N1300-0800	8.820	0.187	8.000	70.09
N1300-0575	6.336	0.125	5.750	14.11	N1300-0825	9.095	0.187	8.250	83.59
N1300-0600	6.620	0.125	6.000	21.63	N1300-0850	9.285	0.187	8.500	102.59
N1300-0625	6.895	0.156	6.250	35.02	N1300-0875	9.558	0.187	8.750	102.59
N1300-0650	7.170	0.156	6.500	36.10	N1300-0900	9.830	0.187	9.000	116.72
N1300-0662	7.308	0.156	6.625	36.10	N1300-0925	10.102	0.187	9.250	122.76
N1300-0675	7.445	0.156	6.750	36.10	N1300-0950	10.375	0.187	9.500	150.24
N1300-0700	7.720	0.156	7.000	54.85	N1300-0975	10.648	0.187	9.750	160.79
N1300-0725	7.995	0.187	7.250	54.85	N1300-1000	10.920	0.187	10.000	170.44
N1300-0750	8.270	0.187	7.500	54.85					

N1400 - Retaining Rings

Carbon Steel

EXTERNAL



Temperature: N/A

Pressure: N/A

Ref.Number	Shaft Dia.	Nominal Ring Dimensions		\$	Ref.Number	Shaft Dia.	Nominal Ring Dimensions		\$
		d	H				d	H	
N1400-0012	0.112	0.010	0.125	0.39	N1400-0059	0.550	0.035	0.594	0.48
N1400-0015	0.142	0.010	0.156	0.39	N1400-0062	0.579	0.035	0.625	0.48
N1400-0018	0.168	0.015	0.187	0.39	N1400-0066	0.621	0.035	0.669	0.48
N1400-0019	0.179	0.015	0.197	0.39	N1400-0068	0.635	0.042	0.687	0.48
N1400-0021	0.196	0.015	0.219	0.39	N1400-0075	0.693	0.042	0.750	0.48
N1400-0023	0.215	0.015	0.236	0.39	N1400-0078	0.722	0.042	0.781	0.48
N1400-0025	0.225	0.025	0.250	0.39	N1400-0081	0.751	0.042	0.812	0.51
N1400-0027	0.250	0.025	0.276	0.39	N1400-0087	0.810	0.042	0.875	0.51
N1400-0028	0.256	0.025	0.281	0.39	N1400-0093	0.867	0.042	0.937	0.51
N1400-0031	0.281	0.025	0.312	0.39	N1400-0098	0.910	0.042	0.984	0.51
N1400-0034	0.309	0.025	0.344	0.39	N1400-0100	0.925	0.042	1.000	0.53
N1400-0035	0.320	0.025	0.354	0.39	N1400-0102	0.946	0.042	1.023	0.53
N1400-0037	0.338	0.025	0.375	0.39	N1400-0106	0.982	0.050	1.062	0.53
N1400-0039	0.354	0.025	0.394	0.39	N1400-0112	1.041	0.050	1.125	0.73
N1400-0040	0.366	0.025	0.406	0.39	N1400-0118	1.098	0.050	1.187	0.73
N1400-0043	0.395	0.025	0.437	0.39	N1400-0125	1.156	0.050	1.250	0.73
N1400-0050	0.461	0.035	0.500	0.48	N1400-0131	1.214	0.050	1.312	0.73
N1400-0056	0.521	0.035	0.562	0.48	N1400-0137	1.272	0.050	1.375	0.73

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N1400 SERIES - RETAINING RING

Ref.Number	Shaft Dia.	Nominal Ring Dimensions		\$	Ref.Number	Shaft Dia.	Nominal Ring Dimensions		\$
		d	H				d	H	
N1400-0143	1.333	0.050	1.437	0.73	N1400-0350	3.237	0.109	3.500	8.33
N1400-0150	1.387	0.050	1.500	0.77	N1400-0354	3.277	0.109	3.543	8.82
N1400-0156	1.446	0.062	1.562	0.77	N1400-0362	3.352	0.109	3.625	9.63
N1400-0162	1.503	0.062	1.625	1.04	N1400-0368	3.410	0.109	3.687	9.90
N1400-0168	1.560	0.062	1.687	1.04	N1400-0375	3.468	0.109	3.750	10.39
N1400-0175	1.618	0.062	1.750	1.30	N1400-0387	3.584	0.109	3.875	10.72
N1400-0177	1.618	0.062	1.772	1.30	N1400-0393	3.642	0.109	3.937	11.88
N1400-0181	1.675	0.062	1.812	1.30	N1400-0400	3.700	0.109	4.000	12.11
N1400-0187	1.735	0.062	1.875	1.30	N1400-0425	3.989	0.109	4.250	13.10
N1400-0196	1.819	0.062	1.969	1.30	N1400-0437	4.106	0.109	4.375	14.13
N1400-0200	1.850	0.062	2.000	2.00	N1400-0450	4.223	0.109	4.500	15.88
N1400-0206	1.906	0.078	2.062	2.00	N1400-0475	4.458	0.109	4.750	18.08
N1400-0212	1.964	0.078	2.125	2.32	N1400-0500	4.692	0.109	5.000	21.15
N1400-0215	1.993	0.078	2.156	2.32	N1400-0525	4.927	0.125	5.250	24.82
N1400-0225	2.081	0.078	2.250	2.32	N1400-0550	5.162	0.125	5.500	31.40
N1400-0231	2.139	0.078	2.312	2.32	N1400-0575	5.396	0.125	5.750	36.49
N1400-0237	2.197	0.078	2.375	2.32	N1400-0600	5.631	0.125	6.000	41.14
N1400-0243	2.255	0.078	2.437	2.32	N1400-0625	5.866	0.156	6.250	49.98
N1400-0250	2.313	0.078	2.500	4.38	N1400-0650	6.100	0.156	6.500	54.39
N1400-0255	2.377	0.078	2.559	4.38	N1400-0675	6.335	0.156	6.750	58.03
N1400-0262	2.428	0.078	2.625	4.41	N1400-0700	6.570	0.156	7.000	60.68
N1400-0268	2.485	0.078	2.687	4.41	N1400-0750	7.039	0.187	7.500	90.96
N1400-0275	2.543	0.093	2.750	4.46	N1400-0800	7.508	0.187	8.000	103.73
N1400-0287	2.659	0.093	2.875	4.71	N1400-0850	7.977	0.187	8.500	122.51
N1400-0293	2.717	0.093	2.937	4.71	N1400-0900	8.445	0.187	9.000	154.13
N1400-0300	2.775	0.093	3.000	4.71	N1400-0950	8.915	0.187	9.500	154.50
N1400-0306	2.832	0.093	3.062	4.71	N1400-1000	9.385	0.187	10.000	186.17
N1400-0312	2.892	0.093	3.125	4.71					
N1400-0315	2.920	0.093	3.156	4.71					
N1400-0325	3.006	0.093	3.250	6.59					
N1400-0334	3.092	0.093	3.346	7.23					
N1400-0343	3.179	0.093	3.437	7.72					

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VH SERIES - SPIRAL INTERNAL

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
VH-318	3.187	3.279	.044	3.314	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	16,400	10,360	18.86
VH-325	3.250	3.342	.044	3.377	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	16,720	10,570	19.24
VH-331	3.312	3.404	.044	3.440	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	17,040	10,770	19.62
VH-337	3.375	3.467	.044	3.504	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	17,370	10,970	20.01
VH-343	3.437	3.529	.044	3.566	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	17,690	11,180	20.38
VH-350	3.500	3.592	.044	3.630	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	18,010	11,380	20.77
VH-356	3.562	3.654	.044	3.692	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	18,330	11,580	21.15
VH-362	3.625	3.717	.044	3.756	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	18,650	11,790	21.53
VH-368	3.687	3.779	.044	3.819	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	18,970	11,990	21.91
VH-375	3.750	3.842	.044	3.882	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	19,300	12,190	22.30
VH-381	3.812	3.904	.044	3.945	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	19,620	12,400	22.68
VH-387	3.875	3.967	.044	4.009	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	19,940	12,600	23.06
VH-393	3.937	4.029	.044	4.071	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	20,260	12,800	23.44
VH-400	4.000	4.092	.044	4.135	(+.030/-0.000)	.039	(+/-0.002)	.188	(+.005/-0.005)	20,580	13,010	23.83
VH-412	4.125	4.235	.052	4.279	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	23,850	16,040	34.54
VH-425	4.250	4.360	.052	4.405	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	24,570	16,520	35.62
VH-437	4.375	4.485	.052	4.531	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	25,290	17,010	36.70
VH-450	4.500	4.610	.052	4.658	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	26,010	17,500	37.77
VH-462	4.625	4.735	.052	4.784	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	26,740	17,980	38.85
VH-475	4.750	4.860	.052	4.910	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	27,460	18,470	39.93
VH-487	4.875	4.985	.052	5.036	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	28,180	18,950	41.01
VH-500	5.000	5.110	.052	5.163	(+.035/-0.000)	.046	(+/-0.002)	.225	(+.005/-0.005)	28,900	19,440	42.09
VH-525	5.250	5.381	.067	5.435	(+.045/-0.000)	.061	(+/-0.002)	.225	(+.005/-0.005)	40,240	24,490	58.93
VH-550	5.500	5.638	.067	5.694	(+.045/-0.000)	.061	(+/-0.002)	.225	(+.005/-0.005)	42,160	26,830	61.88
VH-575	5.750	5.894	.067	5.953	(+.045/-0.000)	.061	(+/-0.002)	.225	(+.005/-0.005)	44,080	29,260	64.81
VH-600	6.000	6.150	.067	6.212	(+.045/-0.000)	.061	(+/-0.002)	.265	(+.005/-0.005)	45,990	31,810	79.21
VH-625	6.250	6.406	.067	6.470	(+.045/-0.000)	.061	(+/-0.002)	.265	(+.005/-0.005)	47,910	34,460	82.67
VH-650	6.500	6.663	.067	6.730	(+.045/-0.000)	.061	(+/-0.002)	.265	(+.005/-0.005)	49,830	37,680	86.14
VH-675	6.750	6.919	.067	6.988	(+.045/-0.000)	.061	(+/-0.002)	.265	(+.005/-0.005)	51,740	40,560	89.59
VH-700	7.000	7.175	.067	7.247	(+.045/-0.000)	.061	(+/-0.002)	.265	(+.005/-0.005)	53,660	43,540	93.05
VH-725	7.250	7.431	.067	7.505	(+.060/-0.000)	.061	(+/-0.002)	.265	(+.005/-0.005)	55,580	46,640	96.51
VH-750	7.500	7.688	.067	7.765	(+.060/-0.000)	.061	(+/-0.002)	.265	(+.005/-0.005)	57,490	49,830	99.98
VH-775	7.750	7.944	.067	8.023	(+.060/-0.000)	.061	(+/-0.002)	.300	(+.004/-0.008)	59,410	53,140	116.52
VH-800	8.000	8.200	.067	8.282	(+.060/-0.000)	.061	(+/-0.002)	.300	(+.004/-0.008)	61,320	56,550	120.43
VH-825	8.250	8.456	.067	8.541	(+.060/-0.000)	.061	(+/-0.002)	.300	(+.004/-0.008)	63,240	60,070	124.35
VH-850	8.500	8.713	.067	8.800	(+.060/-0.000)	.061	(+/-0.002)	.300	(+.004/-0.008)	65,160	64,290	128.27
VH-875	8.750	8.969	.082	9.059	(+.060/-0.000)	.076	(+/-0.002)	.345	(+.004/-0.008)	83,570	68,040	188.35
VH-900	9.000	9.225	.082	9.317	(+.070/-0.000)	.076	(+/-0.002)	.345	(+.004/-0.008)	85,950	71,890	193.95
VH-925	9.250	9.481	.082	9.576	(+.070/-0.000)	.076	(+/-0.002)	.345	(+.004/-0.008)	88,340	75,850	199.56
VH-950	9.500	9.738	.082	9.835	(+.070/-0.000)	.076	(+/-0.002)	.345	(+.004/-0.008)	90,730	79,910	205.19
VH-975	9.750	9.994	.082	10.094	(+.070/-0.000)	.076	(+/-0.002)	.345	(+.004/-0.008)	93,120	84,080	210.79
VH-1000	10.000	10.250	.082	10.353	(+.070/-0.000)	.076	(+/-0.002)	.345	(+.004/-0.008)	95,500	88,360	216.40

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WH SERIES - SPIRAL INTERNAL

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
WH-187	1.875	1.942	.056	1.960	(+.020/-0.000)	.049	(+/-0.003)	.118	(+.004/-0.004)	12,120	4,510	9.08
WH-193	1.938	2.005	.056	2.025	(+.020/-0.000)	.049	(+/-0.003)	.118	(+.004/-0.004)	12,530	4,660	9.40
WH-200	2.000	2.071	.056	2.091	(+.020/-0.000)	.049	(+/-0.003)	.128	(+.004/-0.004)	12,930	4,950	10.50
WH-204	2.047	2.118	.056	2.138	(+.020/-0.000)	.049	(+/-0.003)	.128	(+.004/-0.004)	13,240	5,060	10.75
WH-206	2.062	2.132	.056	2.154	(+.025/-0.000)	.049	(+/-0.003)	.128	(+.004/-0.004)	13,330	5,100	10.83
WH-212	2.125	2.195	.056	2.217	(+.025/-0.000)	.049	(+/-0.003)	.128	(+.004/-0.004)	13,740	5,260	11.17
WH-216	2.165	2.239	.056	2.260	(+.025/-0.000)	.049	(+/-0.003)	.138	(+.004/-0.004)	14,000	5,660	12.24
WH-218	2.188	2.262	.056	2.284	(+.025/-0.000)	.049	(+/-0.003)	.138	(+.004/-0.004)	14,150	5,720	12.37
WH-225	2.250	2.324	.056	2.347	(+.025/-0.000)	.049	(+/-0.003)	.138	(+.004/-0.004)	14,550	5,890	12.73
WH-231	2.312	2.390	.056	2.413	(+.025/-0.000)	.049	(+/-0.003)	.138	(+.004/-0.004)	14,950	6,370	13.12
WH-237	2.375	2.453	.056	2.476	(+.025/-0.000)	.049	(+/-0.003)	.138	(+.004/-0.004)	15,360	6,550	13.48
WH-243	2.437	2.519	.056	2.543	(+.025/-0.000)	.049	(+/-0.003)	.148	(+.004/-0.004)	15,760	7,060	14.81
WH-244	2.440	2.522	.056	2.546	(+.025/-0.000)	.049	(+/-0.003)	.148	(+.004/-0.004)	15,780	7,070	14.83
WH-250	2.500	2.582	.056	2.606	(+.025/-0.000)	.049	(+/-0.003)	.148	(+.004/-0.004)	16,160	7,250	15.20
WH-253	2.531	2.617	.056	2.641	(+.025/-0.000)	.049	(+/-0.003)	.148	(+.004/-0.004)	16,360	7,690	15.42
WH-256	2.562	2.648	.056	2.673	(+.025/-0.000)	.049	(+/-0.003)	.148	(+.004/-0.004)	16,560	7,790	15.62
WH-262	2.625	2.711	.056	2.736	(+.025/-0.000)	.049	(+/-0.003)	.148	(+.004/-0.004)	16,970	7,980	16.01
WH-267	2.677	2.767	.056	2.789	(+.025/-0.000)	.049	(+/-0.003)	.158	(+.004/-0.004)	17,310	8,520	17.40
WH-268	2.688	2.778	.056	2.803	(+.025/-0.000)	.049	(+/-0.003)	.158	(+.004/-0.004)	17,380	8,550	17.47
WH-275	2.750	2.841	.056	2.865	(+.025/-0.000)	.049	(+/-0.003)	.158	(+.004/-0.004)	17,780	8,750	17.89
WH-281	2.813	2.903	.056	2.929	(+.025/-0.000)	.049	(+/-0.003)	.158	(+.004/-0.004)	18,190	8,950	18.31
WH-283	2.834	2.928	.056	2.954	(+.025/-0.000)	.049	(+/-0.003)	.168	(+.005/-0.005)	18,320	9,520	19.57
WH-287	2.875	2.969	.056	2.995	(+.025/-0.000)	.049	(+/-0.003)	.168	(+.005/-0.005)	18,590	9,550	19.86
WH-293	2.937	3.031	.056	3.058	(+.025/-0.000)	.049	(+/-0.003)	.168	(+.005/-0.005)	18,990	9,760	20.30
WH-295	2.952	3.046	.056	3.073	(+.025/-0.000)	.049	(+/-0.003)	.168	(+.005/-0.005)	19,090	9,810	20.41
WH-300	3.000	3.096	.068	3.122	(+.025/-0.000)	.061	(+/-0.003)	.168	(+.005/-0.005)	24,150	10,180	25.85
WH-306	3.062	3.158	.068	3.186	(+.030/-0.000)	.061	(+/-0.003)	.168	(+.005/-0.005)	24,650	10,390	26.39
WH-312	3.125	3.223	.068	3.251	(+.030/-0.000)	.061	(+/-0.003)	.178	(+.005/-0.005)	25,150	10,600	28.48
WH-314	3.149	3.247	.068	3.276	(+.030/-0.000)	.061	(+/-0.003)	.178	(+.005/-0.005)	25,350	10,680	28.70
WH-318	3.187	3.283	.068	3.311	(+.030/-0.000)	.061	(+/-0.003)	.178	(+.005/-0.005)	25,650	10,810	29.04
WH-325	3.250	3.350	.068	3.379	(+.030/-0.000)	.061	(+/-0.003)	.178	(+.005/-0.005)	26,160	11,490	29.67
WH-331	3.312	3.416	.068	3.446	(+.030/-0.000)	.061	(+/-0.003)	.188	(+.005/-0.005)	26,660	12,170	31.88
WH-334	3.346	3.450	.068	3.479	(+.030/-0.000)	.061	(+/-0.003)	.188	(+.005/-0.005)	26,930	12,300	32.22
WH-337	3.375	3.479	.068	3.509	(+.030/-0.000)	.061	(+/-0.003)	.188	(+.005/-0.005)	27,170	12,410	32.51
WH-343	3.437	3.543	.068	3.574	(+.030/-0.000)	.061	(+/-0.003)	.188	(+.005/-0.005)	27,660	12,880	33.14
WH-350	3.500	3.606	.068	3.636	(+.030/-0.000)	.061	(+/-0.003)	.188	(+.005/-0.005)	28,170	13,110	33.76
WH-354	3.543	3.653	.068	3.684	(+.030/-0.000)	.061	(+/-0.003)	.198	(+.005/-0.005)	28,520	13,770	35.94
WH-356	3.562	3.672	.068	3.703	(+.030/-0.000)	.061	(+/-0.003)	.198	(+.005/-0.005)	28,670	13,850	36.14
WH-362	3.625	3.737	.068	3.769	(+.030/-0.000)	.061	(+/-0.003)	.198	(+.005/-0.005)	29,180	14,350	36.82
WH-368	3.687	3.799	.068	3.832	(+.030/-0.000)	.061	(+/-0.003)	.198	(+.005/-0.005)	29,680	14,600	37.46
WH-374	3.740	3.852	.068	3.885	(+.030/-0.000)	.061	(+/-0.003)	.198	(+.005/-0.005)	30,100	14,800	38.02
WH-375	3.750	3.862	.068	3.894	(+.030/-0.000)	.061	(+/-0.003)	.198	(+.005/-0.005)	30,180	14,840	38.12
WH-381	3.812	3.930	.068	3.963	(+.030/-0.000)	.061	(+/-0.003)	.208	(+.005/-0.005)	30,680	15,900	40.68
WH-387	3.875	3.993	.068	4.025	(+.030/-0.000)	.061	(+/-0.003)	.208	(+.005/-0.005)	31,190	16,160	41.37
WH-393	3.938	4.056	.068	4.089	(+.030/-0.000)	.061	(+/-0.003)	.208	(+.005/-0.005)	31,700	16,420	42.05
WH-400	4.000	4.124	.068	4.157	(+.030/-0.000)	.061	(+/-0.003)	.218	(+.005/-0.005)	32,200	17,530	44.74
WH-406	4.063	4.187	.068	4.222	(+.030/-0.000)	.061	(+/-0.003)	.218	(+.005/-0.005)	32,700	17,810	45.46

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
WH-762	7.625	7.827	.094	7.890	(+.065/-0.000)	.086	(+/-0.004)	.312	(+.006/-0.006)	86,520	54,440	173.74
WH-775	7.750	7.952	.094	8.014	(+.065/-0.000)	.086	(+/-0.004)	.312	(+.006/-0.006)	87,940	55,330	176.63
WH-787	7.875	8.077	.094	8.141	(+.065/-0.000)	.086	(+/-0.004)	.312	(+.006/-0.006)	89,360	63,360	179.52
WH-800	8.000	8.202	.094	8.266	(+.065/-0.000)	.086	(+/-0.004)	.312	(+.006/-0.006)	90,780	57,110	182.41
WH-825	8.250	8.462	.094	8.528	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	93,620	61,820	224.67
WH-826	8.267	8.479	.094	8.546	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	93,810	61,940	225.14
WH-846	8.464	8.676	.094	8.744	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	96,050	63,420	230.62
WH-850	8.500	8.712	.094	8.780	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	96,450	63,690	231.62
WH-875	8.750	8.972	.094	9.041	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	99,290	68,650	238.85
WH-885	8.858	9.080	.094	9.151	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	100,520	69,500	241.86
WH-900	9.000	9.222	.094	9.293	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	102,130	70,620	245.80
WH-905	9.055	9.287	.094	9.359	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	102,750	74,250	247.62
WH-925	9.250	9.482	.094	9.555	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	104,960	75,850	253.04
WH-944	9.448	9.680	.094	9.755	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	107,210	77,470	258.55
WH-950	9.500	9.732	.094	9.806	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	107,800	77,900	259.99
WH-975	9.750	9.992	.094	10.068	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	110,640	83,390	267.23
WH-1000	10.000	10.242	.094	10.320	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	113,470	85,530	274.18
WH-1025	10.250	10.502	.094	10.582	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	116,310	91,290	281.41
WH-1050	10.500	10.752	.094	10.834	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	119,150	93,520	288.36
WH-1075	10.750	11.012	.094	11.095	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	121,990	99,540	295.60
WH-1100	11.000	11.262	.094	11.347	(+.065/-0.000)	.086	(+/-0.004)	.375	(+.006/-0.006)	124,820	101,860	302.55

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
WHM-25	0.250	0.268	.020	0.270	(+.010/-0.000)	.015	(+.002)	.020	(+.004/-0.004)	561	159	0.10
WHM-31	0.312	0.330	.020	0.333	(+.010/-0.000)	.015	(+.002)	.025	(+.004/-0.004)	700	198	0.24
WHM-37	0.375	0.397	.029	0.400	(+.010/-0.000)	.025	(+.002)	.030	(+.004/-0.004)	1,442	292	0.32
WHM-43	0.437	0.461	.029	0.464	(+.012/-0.000)	.025	(+.002)	.035	(+.004/-0.004)	1,680	371	0.66
WHM-50	0.500	0.530	.039	0.538	(+.013/-0.000)	.035	(+/-0.002)	.045	(+.004/-0.004)	2,530	530	0.67
WHM-51	0.512	0.542	.039	0.550	(+.013/-0.000)	.035	(+/-0.002)	.045	(+.004/-0.004)	2,590	540	0.90
WHM-56	0.562	0.596	.039	0.605	(+.013/-0.000)	.035	(+/-0.002)	.055	(+.004/-0.004)	2,840	680	1.01
WHM-62	0.625	0.665	.039	0.675	(+.013/-0.000)	.035	(+/-0.002)	.055	(+.004/-0.004)	3,160	880	1.31
WHM-68	0.688	0.732	.039	0.743	(+.013/-0.000)	.035	(+/-0.002)	.065	(+.004/-0.004)	3,480	1,070	1.43
WHM-75	0.750	0.796	.039	0.807	(+.013/-0.000)	.035	(+/-0.002)	.065	(+.004/-0.004)	3,790	1,220	2.03
WHM-77	0.777	0.825	.046	0.836	(+.013/-0.000)	.042	(+/-0.002)	.075	(+.004/-0.004)	4,720	1,320	2.14
WHM-81	0.812	0.862	.046	0.873	(+.013/-0.000)	.042	(+/-0.002)	.075	(+.004/-0.004)	4,930	1,440	2.29
WHM-86	0.866	0.920	.046	0.931	(+.013/-0.000)	.042	(+/-0.002)	.075	(+.004/-0.004)	5,260	1,650	2.60
WHM-87	0.875	0.931	.046	0.943	(+.013/-0.000)	.042	(+/-0.002)	.085	(+.004/-0.004)	5,310	1,730	2.69
WHM-90	0.901	0.959	.046	0.972	(+.013/-0.000)	.042	(+/-0.002)	.085	(+.004/-0.004)	5,470	1,850	2.81
WHM-93	0.938	1.000	.046	1.013	(+.013/-0.000)	.042	(+/-0.002)	.085	(+.004/-0.004)	5,690	2,060	3.02
WHM-100	1.000	1.066	.046	1.080	(+.013/-0.000)	.042	(+/-0.002)	.085	(+.004/-0.004)	6,070	2,330	3.09

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
WHM-375	3.750	3.974	.120	4.002	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	52,310	29,690	113.21
WHM-387	3.875	4.107	.120	4.136	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	54,050	31,770	115.21
WHM-393	3.938	4.174	.120	4.203	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	54,930	32,850	117.19
WHM-400	4.000	4.240	.120	4.270	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	55,800	33,930	120.92
WHM-412	4.125	4.365	.120	4.395	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	57,540	34,990	124.65
WHM-425	4.250	4.490	.120	4.520	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	59,280	36,050	127.04
WHM-433	4.330	4.570	.120	4.600	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	60,400	36,730	132.11
WHM-450	4.500	4.740	.120	4.770	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	62,770	38,170	135.85
WHM-462	4.625	4.865	.120	4.899	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	64,510	39,230	139.73
WHM-475	4.750	4.995	.120	5.030	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	66,260	41,300	147.66
WHM-500	5.000	5.260	.120	5.297	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	69,740	45,950	197.99
WHM-525	5.250	5.520	.139	5.559	(+.050/-0.000)	.127	(+/-0.004)	.350	(+.006/-0.006)	83,790	50,100	202.78
WHM-537	5.375	5.645	.139	5.685	(+.050/-0.000)	.127	(+/-0.004)	.350	(+.006/-0.006)	85,780	51,290	207.57
WHM-550	5.500	5.770	.139	5.810	(+.050/-0.000)	.127	(+/-0.004)	.350	(+.006/-0.006)	87,780	52,480	217.15
WHM-575	5.750	6.020	.139	6.062	(+.050/-0.000)	.127	(+/-0.004)	.350	(+.006/-0.006)	91,770	54,870	226.72
WHM-600	6.000	6.270	.139	6.314	(+.050/-0.000)	.127	(+/-0.004)	.350	(+.006/-0.006)	95,760	57,260	314.09
WHM-625	6.250	6.530	.174	6.576	(+.055/-0.000)	.156	(+/-0.005)	.380	(+.006/-0.006)	122,520	61,850	327.39
WHM-650	6.500	6.790	.174	6.838	(+.055/-0.000)	.156	(+/-0.005)	.380	(+.006/-0.006)	127,420	66,620	334.30
WHM-662	6.625	6.925	.174	6.974	(+.055/-0.000)	.156	(+/-0.005)	.380	(+.006/-0.006)	129,870	70,240	340.96
WHM-675	6.750	7.055	.174	7.105	(+.055/-0.000)	.156	(+/-0.005)	.380	(+.006/-0.006)	132,320	73,000	354.26
WHM-700	7.000	7.315	.174	7.366	(+.055/-0.000)	.156	(+/-0.005)	.380	(+.006/-0.006)	137,230	78,180	482.02
WHM-725	7.250	7.575	.209	7.628	(+.070/-0.000)	.187	(+/-0.005)	.418	(+.007/-0.007)	170,370	83,530	499.90
WHM-750	7.500	7.840	.209	7.895	(+.070/-0.000)	.187	(+/-0.005)	.418	(+.007/-0.007)	176,240	90,120	517.44
WHM-775	7.750	8.100	.209	8.157	(+.070/-0.000)	.187	(+/-0.005)	.418	(+.007/-0.007)	182,120	95,870	534.98
WHM-800	8.000	8.360	.209	8.419	(+.070/-0.000)	.187	(+/-0.005)	.418	(+.007/-0.007)	187,990	101,790	576.25
WHM-825	8.250	8.620	.209	8.680	(+.070/-0.000)	.187	(+/-0.005)	.437	(+.007/-0.007)	193,870	107,880	594.59
WHM-850	8.500	8.880	.209	8.942	(+.070/-0.000)	.187	(+/-0.005)	.437	(+.007/-0.007)	199,740	114,160	613.29
WHM-875	8.750	9.145	.209	9.209	(+.070/-0.000)	.187	(+/-0.005)	.437	(+.007/-0.007)	205,620	122,460	631.63
WHM-900	9.000	9.405	.209	9.471	(+.070/-0.000)	.187	(+/-0.005)	.437	(+.007/-0.007)	211,490	129,140	650.26
WHM-925	9.250	9.669	.209	9.737	(+.070/-0.000)	.187	(+/-0.005)	.437	(+.007/-0.007)	217,370	137,310	759.83
WHM-950	9.500	9.930	.209	10.000	(+.070/-0.000)	.187	(+/-0.005)	.500	(+.007/-0.007)	223,240	144,380	780.72
WHM-975	9.750	10.189	.209	10.260	(+.070/-0.000)	.187	(+/-0.005)	.500	(+.007/-0.007)	229,120	150,620	801.79
WHM-1000	10.000	10.450	.209	10.523	(+.070/-0.000)	.187	(+/-0.005)	.500	(+.007/-0.007)	234,990	159,040	822.85
WHM-1025	10.250	10.711	.209	10.786	(+.070/-0.000)	.187	(+/-0.005)	.500	(+.007/-0.007)	240,870	167,370	843.75
WHM-1050	10.500	10.970	.209	11.047	(+.070/-0.000)	.187	(+/-0.005)	.500	(+.007/-0.007)	246,740	174,420	865.06
WHM-1075	10.750	11.234	.209	11.313	(+.120/-0.000)	.187	(+/-0.005)	.500	(+.007/-0.007)	252,620	183,890	886.13
WHM-1100	11.000	11.495	.209	11.575	(+.120/-0.000)	.187	(+/-0.005)	.500	(+.007/-0.007)	258,490	192,830	907.19
WHM-1125	11.250	11.756	.209	11.838	(+.120/-0.000)	.187	(+/-0.005)	.500	(+.015/-0.010)	264,370	201,190	1037.65
WHM-1150	11.500	12.018	.209	12.102	(+.120/-0.000)	.187	(+/-0.005)	.562	(+.015/-0.010)	270,240	210,540	1061.33
WHM-1175	11.750	12.279	.209	12.365	(+.120/-0.000)	.187	(+/-0.005)	.562	(+.015/-0.010)	276,120	220,100	1085.01
WHM-1200	12.000	12.540	.209	12.628	(+.120/-0.000)	.187	(+/-0.005)	.562	(+.015/-0.010)	281,990	229,020	1108.68
WHM-1225	12.250	12.801	.209	12.891	(+.120/-0.000)	.187	(+/-0.005)	.562	(+.015/-0.010)	287,860	238,990	1132.45
WHM-1250	12.500	13.063	.209	13.154	(+.120/-0.000)	.187	(+/-0.005)	.562	(+.015/-0.010)	293,740	249,170	1156.13
WHM-1275	12.750	13.324	.209	13.417	(+.120/-0.000)	.187	(+/-0.005)	.562	(+.015/-0.010)	299,610	258,660	1378.71
WHM-1300	13.000	13.585	.209	13.680	(+.140/-0.000)	.187	(+/-0.005)	.662	(+.015/-0.010)	305,490	269,240	1406.60
WHM-1325	13.250	13.846	.209	13.943	(+.140/-0.000)	.187	(+/-0.005)	.662	(+.015/-0.010)	311,360	279,100	1434.60
WHM-1350	13.500	14.108	.209	14.207	(+.140/-0.000)	.187	(+/-0.005)	.662	(+.015/-0.010)	317,240	290,100	1462.49

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
WHM-1375	13.750	14.369	.209	14.470	(+.140/-0.000)	.187	(+/-0.005)	.662	(+.015/-0.010)	323,110	301,300	1490.38
WHM-1400	14.000	14.630	.209	14.732	(+.140/-0.000)	.187	(+/-0.005)	.662	(+.015/-0.010)	328,990	311,730	1518.27
WHM-1425	14.250	14.891	.209	14.995	(+.140/-0.000)	.187	(+/-0.005)	.662	(+.015/-0.010)	334,860	323,340	1740.83
WHM-1450	14.500	15.153	.209	15.259	(+.140/-0.000)	.187	(+/-0.005)	.750	(+.015/-0.010)	340,740	335,160	1772.43
WHM-1475	14.750	15.414	.209	15.522	(+.140/-0.000)	.187	(+/-0.005)	.750	(+.015/-0.010)	346,610	346,150	1804.02
WHM-1500	15.000	15.675	.209	15.785	(+.140/-0.000)	.187	(+/-0.005)	.750	(+.015/-0.010)	352,490	358,380	1823.50

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
WHT-50	0.500	0.524	.039	0.529	(+.013/-0.000)	.035	(+/-0.002)	.045	(+.004/-0.004)	2,530	420	0.65
WHT-51	0.512	0.536	.039	0.541	(+.013/-0.000)	.035	(+/-0.002)	.045	(+.004/-0.004)	2,590	430	0.67
WHT-56	0.562	0.592	.039	0.597	(+.013/-0.000)	.035	(+/-0.002)	.045	(+.004/-0.004)	2,840	600	0.74
WHT-62	0.625	0.659	.039	0.665	(+.013/-0.000)	.035	(+/-0.002)	.045	(+.004/-0.004)	3,160	750	0.83
WHT-68	0.688	0.724	.039	0.730	(+.013/-0.000)	.035	(+/-0.002)	.055	(+.004/-0.004)	3,480	880	1.11
WHT-75	0.750	0.790	.039	0.796	(+.013/-0.000)	.035	(+/-0.002)	.055	(+.004/-0.004)	3,790	1,060	1.22
WHT-77	0.777	0.819	.046	0.825	(+.013/-0.000)	.042	(+/-0.002)	.065	(+.004/-0.004)	4,720	1,150	1.77
WHT-81	0.812	0.857	.046	0.864	(+.013/-0.000)	.042	(+/-0.002)	.065	(+.004/-0.004)	4,930	1,320	1.86
WHT-86	0.866	0.912	.046	0.919	(+.013/-0.000)	.042	(+/-0.002)	.065	(+.004/-0.004)	5,260	1,410	1.99
WHT-87	0.875	0.922	.046	0.929	(+.013/-0.000)	.042	(+/-0.002)	.065	(+.004/-0.004)	5,310	1,480	2.02
WHT-90	0.901	0.950	.046	0.957	(+.013/-0.000)	.042	(+/-0.002)	.065	(+.004/-0.004)	5,470	1,590	2.08
WHT-93	0.938	0.989	.046	0.997	(+.013/-0.000)	.042	(+/-0.002)	.075	(+.004/-0.004)	5,690	1,720	2.48
WHT-100	1.000	1.055	.046	1.063	(+.013/-0.000)	.042	(+/-0.002)	.075	(+.004/-0.004)	6,070	1,980	2.66
WHT-102	1.023	1.079	.046	1.087	(+.013/-0.000)	.042	(+/-0.002)	.075	(+.004/-0.004)	6,210	2,030	2.72
WHT-106	1.062	1.120	.056	1.129	(+.015/-0.000)	.050	(+/-0.002)	.078	(+.004/-0.004)	7,010	2,180	3.50
WHT-112	1.125	1.185	.056	1.195	(+.015/-0.000)	.050	(+/-0.002)	.078	(+.004/-0.004)	7,420	2,390	3.72
WHT-118	1.188	1.250	.056	1.260	(+.015/-0.000)	.050	(+/-0.002)	.088	(+.004/-0.004)	7,840	2,600	4.40
WHT-125	1.250	1.320	.056	1.330	(+.015/-0.000)	.050	(+/-0.002)	.093	(+.004/-0.004)	8,250	3,090	4.92
WHT-131	1.312	1.385	.056	1.395	(+.015/-0.000)	.050	(+/-0.002)	.093	(+.004/-0.004)	8,660	3,430	5.18
WHT-137	1.375	1.450	.056	1.461	(+.015/-0.000)	.050	(+/-0.002)	.098	(+.004/-0.004)	9,070	3,690	5.71
WHT-143	1.438	1.515	.056	1.526	(+.015/-0.000)	.050	(+/-0.002)	.103	(+.004/-0.004)	9,490	3,960	6.26
WHT-145	1.456	1.535	.056	1.546	(+.015/-0.000)	.050	(+/-0.002)	.108	(+.004/-0.004)	9,610	4,120	6.64
WHT-150	1.500	1.580	.056	1.591	(+.015/-0.000)	.050	(+/-0.002)	.108	(+.004/-0.004)	9,900	4,240	6.85
WHT-156	1.562	1.647	.068	1.659	(+.020/-0.000)	.062	(+/-0.003)	.113	(+.004/-0.004)	12,780	4,750	9.26
WHT-162	1.625	1.715	.068	1.727	(+.020/-0.000)	.062	(+/-0.003)	.113	(+.004/-0.004)	13,290	5,170	9.67
WHT-165	1.653	1.745	.068	1.757	(+.020/-0.000)	.062	(+/-0.003)	.118	(+.004/-0.004)	13,520	5,380	10.25
WHT-168	1.688	1.780	.068	1.793	(+.020/-0.000)	.062	(+/-0.003)	.118	(+.004/-0.004)	13,810	5,490	10.48
WHT-175	1.750	1.845	.068	1.858	(+.020/-0.000)	.062	(+/-0.003)	.118	(+.004/-0.004)	14,320	5,940	10.89
WHT-181	1.812	1.910	.068	1.923	(+.020/-0.000)	.062	(+/-0.003)	.123	(+.004/-0.004)	14,820	6,280	11.74
WHT-185	1.850	1.949	.068	1.963	(+.020/-0.000)	.062	(+/-0.003)	.123	(+.004/-0.004)	15,130	6,540	12.00
WHT-187	1.875	1.975	.068	1.989	(+.020/-0.000)	.062	(+/-0.003)	.128	(+.004/-0.004)	15,340	6,630	12.63
WHT-193	1.938	2.040	.068	2.054	(+.020/-0.000)	.062	(+/-0.003)	.128	(+.004/-0.004)	15,850	6,990	13.07

N.B.: MINIMUM LINE ORDER MAY APPLY

Seal Source Inc. 2007

WHT SERIES - SPIRAL INTERNAL

MISCELLANEOUS
ACCESSORIES



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	Part Weight
WHT-200	2.000	2.110	.068	2.125	(+.020/-0.000)	.062	(+/-0.003)	.138	(+.004/-0.004)	16,360	7,780	14.54
WHT-206	2.062	2.175	.086	2.190	(+.025/-0.000)	.078	(+/-0.003)	.141	(+.004/-0.004)	21,220	8,310	19.27
WHT-212	2.125	2.240	.086	2.255	(+.025/-0.000)	.078	(+/-0.003)	.141	(+.004/-0.004)	21,870	8,710	19.89
WHT-218	2.188	2.305	.086	2.321	(+.025/-0.000)	.078	(+/-0.003)	.141	(+.004/-0.004)	22,520	9,130	20.51
WHT-225	2.250	2.370	.086	2.386	(+.025/-0.000)	.078	(+/-0.003)	.141	(+.004/-0.004)	23,160	9,540	21.12
WHT-231	2.312	2.440	.086	2.457	(+.025/-0.000)	.078	(+/-0.003)	.188	(+.005/-0.005)	23,800	10,460	28.44
WHT-237	2.375	2.505	.086	2.522	(+.025/-0.000)	.078	(+/-0.003)	.188	(+.005/-0.005)	24,440	10,910	29.26
WHT-244	2.440	2.570	.086	2.588	(+.025/-0.000)	.078	(+/-0.003)	.188	(+.005/-0.005)	25,110	11,210	30.08
WHT-250	2.500	2.635	.086	2.653	(+.025/-0.000)	.078	(+/-0.003)	.188	(+.005/-0.005)	25,730	12,020	30.91
WHT-253	2.531	2.668	.086	2.687	(+.025/-0.000)	.078	(+/-0.003)	.188	(+.005/-0.005)	26,050	12,350	31.33
WHT-256	2.562	2.700	.103	2.720	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	29,940	12,500	37.83
WHT-262	2.625	2.765	.103	2.785	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	30,680	12,990	38.81
WHT-268	2.688	2.834	.103	2.855	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	31,410	13,870	39.86
WHT-275	2.750	2.900	.103	2.921	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	32,140	14,580	40.85
WHT-281	2.813	2.965	.103	2.987	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	32,880	15,110	41.83
WHT-283	2.834	2.987	.103	3.009	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	33,120	15,430	42.17
WHT-287	2.875	3.030	.103	3.053	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	33,600	15,850	42.82
WHT-300	3.000	3.165	.103	3.188	(+.025/-0.000)	.093	(+/-0.003)	.188	(+.005/-0.005)	35,060	17,600	44.86
WHT-306	3.062	3.230	.120	3.253	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	42,710	18,180	71.22
WHT-312	3.125	3.295	.120	3.318	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	43,590	18,780	72.77
WHT-315	3.156	3.328	.120	3.354	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	44,040	19,190	73.57
WHT-325	3.250	3.426	.120	3.450	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	45,330	20,220	75.91
WHT-334	3.346	3.525	.120	3.550	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	46,670	21,290	78.28
WHT-346	3.464	3.650	.120	3.675	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	48,320	22,770	81.28
WHT-350	3.500	3.690	.120	3.716	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	48,820	23,500	82.24
WHT-354	3.543	3.735	.120	3.761	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	49,420	24,040	83.32
WHT-356	3.562	3.756	.120	3.783	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	49,690	24,420	83.82
WHT-362	3.625	3.822	.120	3.849	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	50,560	25,370	85.40
WHT-375	3.750	3.955	.120	3.982	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	52,310	27,300	88.59
WHT-387	3.875	4.087	.120	4.115	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	54,050	29,030	91.75
WHT-393	3.938	4.150	.120	4.178	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	54,930	29,510	93.26
WHT-400	4.000	4.220	.120	4.248	(+.030/-0.000)	.111	(+/-0.003)	.250	(+.005/-0.005)	55,800	31,100	94.94
WHT-412	4.125	4.345	.120	4.373	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	57,540	32,070	120.30
WHT-425	4.250	4.470	.120	4.500	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	59,280	33,050	124.03
WHT-433	4.330	4.556	.120	4.586	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	60,400	34,590	126.61
WHT-450	4.500	4.735	.120	4.768	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	62,770	37,530	131.96
WHT-462	4.625	4.865	.120	4.897	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	64,510	39,230	135.84
WHT-475	4.750	4.995	.120	5.028	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	66,260	41,300	139.73
WHT-500	5.000	5.260	.120	5.295	(+.035/-0.000)	.111	(+/-0.003)	.312	(+.006/-0.006)	69,740	45,950	147.65
WHT-525	5.250	5.520	.139	5.559	(+.045/-0.000)	.127	(+/-0.004)	.375	(+.006/-0.006)	83,790	50,100	211.07
WHT-537	5.375	5.645	.139	5.685	(+.045/-0.000)	.127	(+/-0.004)	.375	(+.006/-0.006)	85,780	51,290	216.20
WHT-550	5.500	5.770	.139	5.810	(+.045/-0.000)	.127	(+/-0.004)	.375	(+.006/-0.006)	87,780	52,480	221.33
WHT-575	5.750	6.020	.139	6.062	(+.045/-0.000)	.127	(+/-0.004)	.375	(+.006/-0.006)	91,770	54,870	231.60
WHT-600	6.000	6.270	.139	6.314	(+.045/-0.000)	.127	(+/-0.004)	.375	(+.006/-0.006)	95,760	57,260	241.86
WHT-625	6.250	6.530	.174	6.576	(+.055/-0.000)	.165	(+/-0.005)	.312	(+.006/-0.006)	129,590	61,850	278.91
WHT-650	6.500	6.790	.174	6.837	(+.055/-0.000)	.165	(+/-0.005)	.312	(+.006/-0.006)	134,780	66,620	290.59
WHT-662	6.625	6.925	.174	6.973	(+.055/-0.000)	.165	(+/-0.005)	.312	(+.006/-0.006)	137,370	70,240	296.65

NOTE: MINIMUM LINE ORDER MAY APPLY

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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	Part Weight
WHT-675	6.750	7.055	.174	7.104	(+.055/-0.000)	.165	(+/-0.005)	.312	(+.006/-0.006)	139,960	73,000	302.49
WHT-700	7.000	7.315	.174	7.366	(+.055/-0.000)	.165	(+/-0.005)	.312	(+.006/-0.006)	145,140	78,180	314.16
WHT-725	7.250	7.575	.209	7.628	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	172,190	83,530	444.62
WHT-750	7.500	7.840	.209	7.895	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	178,130	90,120	461.01
WHT-775	7.750	8.100	.209	8.156	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	184,070	95,870	477.08
WHT-800	8.000	8.360	.209	8.418	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	190,000	101,790	493.15
WHT-825	8.250	8.620	.209	8.680	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	195,940	107,880	509.22
WHT-850	8.500	8.880	.209	8.942	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	201,880	114,160	525.29
WHT-875	8.750	9.145	.209	9.209	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	207,820	122,460	541.68
WHT-900	9.000	9.405	.209	9.471	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	213,750	129,140	557.75
WHT-925	9.250	9.669	.209	9.736	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	219,690	137,310	574.07
WHT-950	9.500	9.930	.209	9.999	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	225,630	144,380	590.21
WHT-975	9.750	10.189	.209	10.260	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	231,570	151,620	606.21
WHT-1000	10.000	10.450	.209	10.552	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	237,500	159,040	622.43
WHT-1050	10.500	10.970	.209	11.072	(+.070/-0.000)	.189	(+/-0.005)	.375	(+.006/-0.006)	249,380	174,420	654.56

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	Part Weight
VS-25	0.250	0.238	.015	0.236	(+.000/-0.010)	.012	(+/-0.0015)	.020	(+.004/-0.004)	481	106	0.04
VS-31	0.312	0.297	.018	0.294	(+.000/-0.010)	.015	(+/-0.0015)	.025	(+.004/-0.004)	750	165	0.08
VS-37	0.375	0.351	.018	0.348	(+.000/-0.010)	.015	(+/-0.0015)	.025	(+.004/-0.004)	901	318	0.10
VS-43	0.437	0.413	.018	0.410	(+.000/-0.012)	.015	(+/-0.0015)	.035	(+.004/-0.004)	1,050	371	0.16
VS-50	0.500	0.472	.022	0.467	(+.000/-0.013)	.018	(+/-0.0015)	.045	(+.004/-0.004)	1,300	500	0.30
VS-56	0.562	0.534	.022	0.529	(+.000/-0.013)	.018	(+/-0.0015)	.045	(+.004/-0.004)	1,460	560	0.30
VS-62	0.625	0.597	.022	0.591	(+.000/-0.013)	.018	(+/-0.0015)	.045	(+.004/-0.004)	1,630	620	0.40
VS-68	0.687	0.659	.022	0.652	(+.000/-0.013)	.018	(+/-0.0015)	.045	(+.004/-0.004)	1,790	680	0.40
VS-75	0.750	0.722	.022	0.715	(+.000/-0.013)	.018	(+/-0.0015)	.045	(+.004/-0.004)	1,950	740	0.40
VS-81	0.812	0.770	.026	0.762	(+.000/-0.013)	.021	(+/-0.0015)	.065	(+.004/-0.004)	2,460	1,210	0.90
VS-87	0.875	0.833	.026	0.825	(+.000/-0.013)	.021	(+/-0.0015)	.065	(+.004/-0.004)	2,660	1,300	0.90
VS-93	0.937	0.895	.026	0.886	(+.000/-0.013)	.021	(+/-0.0015)	.065	(+.004/-0.004)	2,840	1,390	1.00
VS-100	1.000	0.958	.026	0.949	(+.000/-0.013)	.021	(+/-0.0015)	.065	(+.004/-0.004)	3,040	1,480	1.10
VS-106	1.062	1.018	.031	1.008	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	3,500	1,650	1.90
VS-112	1.125	1.081	.031	1.071	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	3,710	1,750	2.00
VS-118	1.187	1.143	.031	1.132	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	3,920	1,850	2.10
VS-125	1.250	1.206	.031	1.194	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	4,120	1,940	2.20
VS-131	1.312	1.268	.031	1.255	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	4,330	2,040	2.40
VS-137	1.375	1.331	.031	1.318	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	4,540	2,140	0.50
VS-143	1.437	1.393	.031	1.379	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	4,740	2,240	2.60
VS-150	1.500	1.456	.031	1.442	(+.000/-0.015)	.025	(+/-0.0015)	.088	(+.004/-0.004)	4,950	2,330	2.70
VS-156	1.562	1.505	.039	1.488	(+.000/-0.020)	.031	(+/-0.002)	.118	(+.004/-0.004)	6,390	3,200	4.80
VS-162	1.625	1.568	.039	1.550	(+.000/-0.020)	.031	(+/-0.002)	.118	(+.004/-0.004)	6,650	3,330	5.00

NOTE: MINIMUM LINE ORDER MAY APPLY

Seal Source Inc. 2007

VS SERIES - SPIRAL EXTERNAL

MISCELLANEOUS
ACCESSORIES



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	Part Weight
VS-168	1.687	1.630	.039	1.612	(+.000/-.020)	.031	(+/-).002	.118	(+.004/-.004)	6,900	3,460	5.20
VS-175	1.750	1.693	.039	1.674	(+.000/-.020)	.031	(+/-).002	.118	(+.004/-.004)	7,160	3,590	5.40
VS-181	1.812	1.755	.039	1.736	(+.000/-.020)	.031	(+/-).002	.118	(+.004/-.004)	7,410	3,710	5.60
VS-187	1.875	1.818	.039	1.798	(+.000/-.020)	.031	(+/-).002	.118	(+.004/-.004)	7,670	3,840	5.80
VS-193	1.937	1.880	.039	1.859	(+.000/-.020)	.031	(+/-).002	.118	(+.004/-.004)	7,920	3,970	6.00
VS-200	2.000	1.943	.039	1.922	(+.000/-.020)	.031	(+/-).002	.118	(+.004/-.004)	8,180	4,100	6.20
VS-206	2.062	1.986	.039	1.963	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	8,430	5,540	8.60
VS-212	2.125	2.049	.039	2.026	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	8,690	5,710	8.80
VS-218	2.187	2.111	.039	2.087	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	8,950	5,870	9.10
VS-225	2.250	2.174	.039	2.149	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	9,200	6,040	9.30
VS-231	2.312	2.236	.039	2.211	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	9,460	6,210	9.60
VS-237	2.375	2.299	.039	2.273	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	9,720	6,380	9.90
VS-243	2.437	2.361	.039	2.335	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	9,970	6,550	10.10
VS-250	2.500	2.424	.039	2.397	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	10,230	6,720	10.40
VS-256	2.562	2.486	.039	2.458	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	10,480	6,880	10.60
VS-262	2.625	2.549	.039	2.521	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	10,740	7,050	10.90
VS-268	2.687	2.611	.039	2.582	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	10,990	7,220	11.20
VS-275	2.750	2.674	.039	2.644	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	11,250	7,390	11.40
VS-281	2.812	2.736	.039	2.706	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	11,500	7,550	11.70
VS-287	2.875	2.799	.039	2.768	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	11,760	7,720	11.90
VS-293	2.937	2.861	.039	2.830	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	12,010	7,890	12.20
VS-300	3.000	2.924	.039	2.892	(+.000/-.025)	.031	(+/-).002	.158	(+.004/-.004)	12,270	8,060	12.50
VS-306	3.062	2.970	.044	2.938	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	15,760	9,960	19.30
VS-312	3.125	3.033	.044	3.001	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	16,080	10,160	19.70
VS-318	3.187	3.095	.044	3.062	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	16,400	10,360	20.10
VS-325	3.250	3.158	.044	3.125	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	16,720	10,570	20.50
VS-331	3.312	3.220	.044	3.186	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	17,040	10,770	20.90
VS-337	3.375	3.283	.044	3.248	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	17,370	10,970	21.30
VS-343	3.437	3.345	.044	3.310	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	17,690	11,180	21.70
VS-350	3.500	3.408	.044	3.372	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	18,010	11,380	22.10
VS-356	3.562	3.470	.044	3.433	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	18,330	11,580	22.40
VS-362	3.625	3.533	.044	3.496	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	18,650	11,790	22.80
VS-368	3.687	3.595	.044	3.557	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	18,970	11,990	23.20
VS-375	3.750	3.658	.044	3.620	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	19,300	12,190	23.60
VS-381	3.812	3.720	.044	3.681	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	19,620	12,400	24.00
VS-387	3.875	3.783	.044	3.743	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	19,940	12,600	24.40
VS-393	3.937	3.845	.044	3.805	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	20,260	12,800	24.80
VS-400	4.000	3.908	.044	3.867	(+.000/-.030)	.039	(+/-).002	.188	(+.005/-.005)	20,580	13,010	25.20
VS-412	4.125	4.015	.052	3.973	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	23,850	16,040	37.00
VS-425	4.250	4.140	.052	4.097	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	24,570	16,520	38.10
VS-437	4.375	4.265	.052	4.221	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	25,290	17,010	39.30
VS-450	4.500	4.390	.052	4.345	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	26,010	17,500	40.40
VS-462	4.625	4.515	.052	4.468	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	26,740	17,980	41.50
VS-475	4.750	4.640	.052	4.592	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	27,460	18,470	42.60
VS-487	4.875	4.765	.052	4.715	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	28,180	18,950	43.70
VS-500	5.000	4.890	.052	4.839	(+.000/-.035)	.046	(+/-).002	.225	(+.005/-.005)	28,900	19,440	44.80
VS-525	5.250	5.119	.067	5.067	(+.000/-.045)	.061	(+/-).002	.225	(+.005/-.005)	40,240	24,490	62.50

NOTE: MINIMUM LINE ORDER MAY APPLY

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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	Part Weight
VS-550	5.500	5.363	.067	5.309	(+.000/-0.045)	.061	(+/-0.002)	.225	(+.005/-0.005)	42,160	26,830	65.40
VS-575	5.750	5.606	.067	5.550	(+.000/-0.045)	.061	(+/-0.002)	.225	(+.005/-0.005)	44,080	29,260	68.30
VS-600	6.000	5.850	.067	5.792	(+.000/-0.045)	.061	(+/-0.002)	.225	(+.005/-0.005)	45,990	31,810	71.20
VS-625	6.250	6.094	.067	6.033	(+.000/-0.045)	.061	(+/-0.002)	.265	(+.005/-0.005)	47,910	34,460	87.90
VS-650	6.500	6.338	.067	6.275	(+.000/-0.045)	.061	(+/-0.002)	.265	(+.005/-0.005)	49,830	37,220	91.30
VS-675	6.750	6.581	.067	6.515	(+.000/-0.045)	.061	(+/-0.002)	.265	(+.005/-0.005)	51,740	40,560	94.70
VS-700	7.000	6.825	.067	6.757	(+.000/-0.045)	.061	(+/-0.002)	.265	(+.005/-0.005)	53,660	43,540	98.10
VS-725	7.250	7.069	.067	6.998	(+.000/-0.045)	.061	(+/-0.002)	.300	(+.004/-0.008)	55,580	46,640	115.50
VS-750	7.500	7.313	.067	7.240	(+.000/-0.060)	.061	(+/-0.002)	.300	(+.004/-0.008)	57,490	49,830	119.30
VS-775	7.750	7.556	.067	7.480	(+.000/-0.060)	.061	(+/-0.002)	.300	(+.004/-0.008)	59,410	53,140	123.20
VS-800	8.000	7.800	.067	7.722	(+.000/-0.060)	.061	(+/-0.002)	.300	(+.004/-0.008)	61,320	56,550	127.10
VS-825	8.250	8.044	.082	7.964	(+.000/-0.060)	.076	(+/-0.002)	.345	(+.004/-0.008)	78,790	60,070	191.80
VS-850	8.500	8.288	.082	8.205	(+.000/-0.060)	.076	(+/-0.002)	.345	(+.004/-0.008)	81,180	63,690	197.40
VS-875	8.750	8.531	.082	8.446	(+.000/-0.060)	.076	(+/-0.002)	.345	(+.004/-0.008)	83,570	68,040	203.00
VS-900	9.000	8.775	.082	8.687	(+.000/-0.070)	.076	(+/-0.002)	.345	(+.004/-0.008)	85,950	71,890	208.60
VS-925	9.250	9.019	.082	8.929	(+.000/-0.070)	.076	(+/-0.002)	.345	(+.004/-0.008)	88,340	75,850	214.30
VS-950	9.500	9.263	.082	9.170	(+.000/-0.070)	.076	(+/-0.002)	.345	(+.004/-0.008)	90,730	79,910	219.90
VS-975	9.750	9.506	.082	9.411	(+.000/-0.070)	.076	(+/-0.002)	.345	(+.004/-0.008)	93,120	84,080	225.50
VS-1000	10.000	9.750	.082	9.653	(+.000/-0.070)	.076	(+/-0.002)	.345	(+.004/-0.008)	95,500	88,360	231.20

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	Part Weight
WS-50	0.500	0.474	.030	0.467	(+.000/-0.013)	.025	(+/-0.002)	.045	(+.004/-0.004)	2,000	460	0.40
WS-53	0.531	0.505	.030	0.498	(+.000/-0.013)	.025	(+/-0.002)	.045	(+.004/-0.004)	2,130	490	0.40
WS-55	0.551	0.525	.030	0.518	(+.000/-0.013)	.025	(+/-0.002)	.045	(+.004/-0.004)	2,210	510	0.50
WS-56	0.562	0.536	.030	0.529	(+.000/-0.013)	.025	(+/-0.002)	.045	(+.004/-0.004)	2,250	520	0.50
WS-59	0.594	0.569	.030	0.561	(+.000/-0.013)	.025	(+/-0.002)	.045	(+.004/-0.004)	2,380	550	0.50
WS-62	0.625	0.594	.030	0.585	(+.000/-0.013)	.025	(+/-0.002)	.055	(+.004/-0.004)	2,500	710	0.70
WS-65	0.656	0.625	.030	0.617	(+.000/-0.013)	.025	(+/-0.002)	.055	(+.004/-0.004)	2,630	740	0.70
WS-66	0.669	0.638	.030	0.629	(+.000/-0.013)	.025	(+/-0.002)	.055	(+.004/-0.004)	2,680	760	0.70
WS-68	0.687	0.656	.030	0.647	(+.000/-0.013)	.025	(+/-0.002)	.055	(+.004/-0.004)	2,750	780	0.70
WS-71	0.718	0.687	.030	0.679	(+.000/-0.013)	.025	(+/-0.002)	.055	(+.004/-0.004)	2,880	810	0.80
WS-75	0.750	0.719	.036	0.710	(+.000/-0.013)	.031	(+/-0.002)	.065	(+.004/-0.004)	3,360	850	1.20
WS-78	0.781	0.750	.036	0.741	(+.000/-0.013)	.031	(+/-0.002)	.065	(+.004/-0.004)	3,500	880	1.30
WS-81	0.812	0.781	.036	0.771	(+.000/-0.013)	.031	(+/-0.002)	.065	(+.004/-0.004)	3,640	920	1.30
WS-84	0.843	0.812	.036	0.803	(+.000/-0.013)	.031	(+/-0.002)	.065	(+.004/-0.004)	3,780	950	1.40
WS-87	0.875	0.838	.036	0.828	(+.000/-0.013)	.031	(+/-0.002)	.065	(+.004/-0.004)	3,920	1,180	1.40
WS-90	0.906	0.869	.036	0.860	(+.000/-0.013)	.031	(+/-0.002)	.065	(+.004/-0.004)	4,060	1,220	1.50
WS-93	0.937	0.900	.036	0.889	(+.000/-0.013)	.031	(+/-0.002)	.065	(+.004/-0.004)	4,200	1,260	1.50
WS-96	0.968	0.925	.042	0.916	(+.000/-0.013)	.037	(+/-0.002)	.075	(+.004/-0.004)	5,180	1,440	2.20
WS-98	0.984	0.941	.042	0.930	(+.000/-0.013)	.037	(+/-0.002)	.075	(+.004/-0.004)	5,260	1,460	2.30
WS-100	1.000	0.957	.042	0.946	(+.000/-0.013)	.037	(+/-0.002)	.075	(+.004/-0.004)	5,350	1,480	2.30

NOTE: MINIMUM LINE ORDER MAY APPLY

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WS SERIES - SPIRAL EXTERNAL

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Ref. Number	Application Diameter	Groove Diameter	Groove Width Min	Ring Diameter	Diameter Tolerance	Ring Thickness	Thickness Tolerance	Ring Radial Wall	Radial Wall Tolerance	Ring Shear	Groove Yield	Part Weight
WS-102	1.023	0.980	.042	0.968	(+.000/-.013)	.037	(+/-).002	.075	(+.004/-.004)	5,470	1,520	2.30
WS-103	1.031	0.988	.042	0.978	(+.000/-.013)	.037	(+/-).002	.075	(+.004/-.004)	5,510	1,530	2.40
WS-106	1.062	1.020	.042	1.007	(+.000/-.015)	.037	(+/-).002	.075	(+.004/-.004)	5,680	1,580	2.40
WS-109	1.093	1.051	.042	1.040	(+.000/-.015)	.037	(+/-).002	.075	(+.004/-.004)	5,840	1,620	2.50
WS-112	1.125	1.083	.042	1.070	(+.000/-.015)	.037	(+/-).002	.075	(+.004/-.004)	6,020	1,670	2.60
WS-115	1.156	1.114	.042	1.102	(+.000/-.015)	.037	(+/-).002	.075	(+.004/-.004)	6,180	1,720	2.70
WS-118	1.188	1.140	.048	1.127	(+.000/-.015)	.043	(+/-).002	.085	(+.004/-.004)	7,380	2,020	3.50
WS-121	1.218	1.170	.048	1.159	(+.000/-.015)	.043	(+/-).002	.085	(+.004/-.004)	7,570	2,070	3.60
WS-125	1.250	1.202	.048	1.188	(+.000/-.015)	.043	(+/-).002	.085	(+.004/-.004)	7,770	2,120	3.70
WS-128	1.281	1.233	.048	1.221	(+.000/-.015)	.043	(+/-).002	.085	(+.004/-.004)	7,960	2,170	3.80
WS-131	1.312	1.264	.048	1.251	(+.000/-.015)	.043	(+/-).002	.095	(+.004/-.004)	8,150	2,230	4.30
WS-134	1.343	1.295	.048	1.282	(+.000/-.015)	.043	(+/-).002	.095	(+.004/-.004)	8,350	2,280	4.40
WS-137	1.375	1.323	.048	1.308	(+.000/-.015)	.043	(+/-).002	.095	(+.004/-.004)	8,540	2,530	4.50
WS-140	1.406	1.354	.048	1.340	(+.000/-.015)	.043	(+/-).002	.095	(+.004/-.004)	8,740	2,580	4.60
WS-143	1.437	1.385	.048	1.370	(+.000/-.015)	.043	(+/-).002	.095	(+.004/-.004)	8,930	2,640	4.70
WS-146	1.468	1.416	.048	1.402	(+.000/-.015)	.043	(+/-).002	.095	(+.004/-.004)	9,120	2,700	4.80
WS-150	1.500	1.448	.048	1.433	(+.000/-.015)	.043	(+/-).002	.095	(+.004/-.004)	9,320	2,760	4.90
WS-156	1.562	1.507	.056	1.490	(+.000/-.020)	.049	(+/-).003	.108	(+.004/-.004)	10,100	3,090	7.10
WS-157	1.575	1.520	.056	1.503	(+.000/-.020)	.049	(+/-).003	.108	(+.004/-.004)	10,190	3,120	7.10
WS-162	1.625	1.566	.056	1.549	(+.000/-.020)	.049	(+/-).003	.108	(+.004/-.004)	10,510	3,450	7.30
WS-168	1.687	1.628	.056	1.610	(+.000/-.020)	.049	(+/-).003	.118	(+.004/-.004)	10,910	3,580	8.40
WS-175	1.750	1.691	.056	1.673	(+.000/-.020)	.049	(+/-).003	.118	(+.004/-.004)	11,310	3,710	8.70
WS-177	1.771	1.708	.056	1.690	(+.000/-.020)	.049	(+/-).003	.118	(+.004/-.004)	11,450	4,010	8.80
WS-181	1.813	1.749	.056	1.730	(+.000/-.020)	.049	(+/-).003	.118	(+.004/-.004)	11,720	4,100	9.00
WS-187	1.875	1.808	.056	1.789	(+.000/-.020)	.049	(+/-).003	.128	(+.004/-.004)	12,120	4,510	10.10
WS-193	1.938	1.871	.056	1.851	(+.000/-.020)	.049	(+/-).003	.128	(+.004/-.004)	12,530	4,660	10.40
WS-196	1.969	1.902	.056	1.882	(+.000/-.020)	.049	(+/-).003	.128	(+.004/-.004)	12,730	4,730	10.60
WS-200	2.000	1.929	.056	1.909	(+.000/-.020)	.049	(+/-).003	.128	(+.004/-.004)	12,930	4,950	10.70
WS-206	2.062	1.992	.056	1.971	(+.000/-.020)	.049	(+/-).003	.128	(+.004/-.004)	13,330	5,100	11.10
WS-212	2.125	2.051	.056	2.029	(+.000/-.020)	.049	(+/-).003	.128	(+.004/-.004)	13,740	5,560	11.40
WS-215	2.156	2.082	.056	2.060	(+.000/-.025)	.049	(+/-).003	.138	(+.004/-.004)	13,940	5,640	12.50
WS-216	2.165	2.091	.056	2.070	(+.000/-.025)	.049	(+/-).003	.138	(+.004/-.004)	14,000	5,660	12.60
WS-218	2.188	2.113	.056	2.092	(+.000/-.025)	.049	(+/-).003	.138	(+.004/-.004)	14,150	5,720	12.70
WS-225	2.250	2.176	.056	2.153	(+.000/-.025)	.049	(+/-).003	.138	(+.004/-.004)	14,550	5,890	13.10
WS-231	2.312	2.234	.056	2.211	(+.000/-.025)	.049	(+/-).003	.138	(+.004/-.004)	14,950	6,370	13.40
WS-236	2.362	2.284	.056	2.261	(+.000/-.025)	.049	(+/-).003	.138	(+.004/-.004)	15,270	6,510	13.70
WS-237	2.375	2.297	.056	2.273	(+.000/-.025)	.049	(+/-).003	.138	(+.004/-.004)	15,360	6,550	13.80
WS-243	2.437	2.355	.056	2.331	(+.000/-.025)	.049	(+/-).003	.148	(+.004/-.004)	15,760	7,060	15.50
WS-250	2.500	2.418	.056	2.394	(+.000/-.025)	.049	(+/-).003	.148	(+.004/-.004)	16,160	7,250	15.60
WS-255	2.559	2.473	.056	2.449	(+.000/-.025)	.049	(+/-).003	.148	(+.004/-.004)	16,550	7,780	15.90
WS-256	2.562	2.476	.056	2.452	(+.000/-.025)	.049	(+/-).003	.148	(+.004/-.004)	16,560	7,790	15.90
WS-262	2.625	2.539	.056	2.514	(+.000/-.025)	.049	(+/-).003	.148	(+.004/-.004)	16,970	7,980	16.30
WS-268	2.688	2.597	.056	2.572	(+.000/-.025)	.049	(+/-).003	.158	(+.004/-.004)	17,380	8,550	19.90
WS-275	2.750	2.660	.056	2.635	(+.000/-.030)	.049	(+/-).003	.158	(+.004/-.004)	17,780	8,750	18.30
WS-281	2.813	2.722	.056	2.696	(+.000/-.030)	.049	(+/-).003	.168	(+.005/-.005)	18,190	8,950	20.00
WS-287	2.875	2.781	.056	2.755	(+.000/-.030)	.049	(+/-).003	.168	(+.005/-.005)	18,590	9,550	20.40
WS-293	2.937	2.843	.056	2.817	(+.000/-.030)	.049	(+/-).003	.168	(+.005/-.005)	18,990	9,760	20.90

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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	Part Weight
WS-295	2.952	2.858	.056	2.831	(+.000/-.030)	.049	(+/-).003	.168	(+.005/-.005)	19,090	9,810	21.00
WS-300	3.000	2.904	.068	2.877	(+.000/-.030)	.061	(+/-).003	.168	(+.005/-.005)	24,150	10,180	26.60
WS-306	3.062	2.966	.068	2.938	(+.000/-.030)	.061	(+/-).003	.168	(+.005/-.005)	24,650	10,390	27.20
WS-312	3.125	3.027	.068	3.000	(+.000/-.030)	.061	(+/-).003	.178	(+.005/-.005)	25,150	10,820	29.50
WS-314	3.149	3.051	.068	3.023	(+.000/-.030)	.061	(+/-).003	.178	(+.005/-.005)	25,350	10,910	29.70
WS-318	3.187	3.089	.068	3.061	(+.000/-.030)	.061	(+/-).003	.178	(+.005/-.005)	25,650	11,040	30.00
WS-325	3.250	3.150	.068	3.121	(+.000/-.030)	.061	(+/-).003	.178	(+.005/-.005)	26,160	11,490	30.60
WS-331	3.312	3.208	.068	3.180	(+.000/-.030)	.061	(+/-).003	.188	(+.005/-.005)	26,660	12,170	33.00
WS-334	3.343	3.239	.068	3.210	(+.000/-.030)	.061	(+/-).003	.188	(+.005/-.005)	26,910	12,290	33.20
WS-337	3.375	3.271	.068	3.242	(+.000/-.030)	.061	(+/-).003	.188	(+.005/-.005)	27,170	12,410	33.50
WS-343	3.437	3.331	.068	3.301	(+.000/-.030)	.061	(+/-).003	.188	(+.005/-.005)	27,660	12,880	34.10
WS-350	3.500	3.394	.068	3.363	(+.000/-.040)	.061	(+/-).003	.188	(+.005/-.005)	28,170	13,110	34.80
WS-354	3.543	3.433	.068	3.402	(+.000/-.040)	.061	(+/-).003	.198	(+.005/-.005)	28,520	13,770	37.10
WS-356	3.562	3.452	.068	3.422	(+.000/-.040)	.061	(+/-).003	.198	(+.005/-.005)	28,670	13,850	37.30
WS-362	3.625	3.515	.068	3.483	(+.000/-.040)	.061	(+/-).003	.198	(+.005/-.005)	29,180	14,090	38.00
WS-368	3.687	3.575	.068	3.543	(+.000/-.040)	.061	(+/-).003	.198	(+.005/-.005)	29,680	14,600	38.60
WS-374	3.740	3.628	.068	3.597	(+.000/-.040)	.061	(+/-).003	.198	(+.005/-.005)	30,100	14,800	39.20
WS-375	3.750	3.638	.068	3.606	(+.000/-.040)	.061	(+/-).003	.198	(+.005/-.005)	30,180	14,840	39.30
WS-381	3.812	3.700	.068	3.668	(+.000/-.040)	.061	(+/-).003	.198	(+.005/-.005)	30,680	15,090	39.90
WS-387	3.875	3.757	.068	3.724	(+.000/-.040)	.061	(+/-).003	.208	(+.005/-.005)	31,190	16,160	42.70
WS-393	3.938	3.820	.068	3.784	(+.000/-.040)	.061	(+/-).003	.208	(+.005/-.005)	31,700	16,420	43.40
WS-400	4.000	3.876	.068	3.842	(+.000/-.040)	.061	(+/-).003	.218	(+.005/-.005)	32,200	17,530	46.20
WS-406	4.063	3.939	.068	3.906	(+.000/-.040)	.061	(+/-).003	.218	(+.005/-.005)	32,700	17,810	47.00
WS-412	4.125	4.000	.068	3.967	(+.000/-.040)	.061	(+/-).003	.218	(+.005/-.005)	33,200	18,080	47.60
WS-413	4.134	4.010	.068	3.975	(+.000/-.040)	.061	(+/-).003	.218	(+.005/-.005)	33,270	18,120	47.70
WS-418	4.188	4.058	.068	4.022	(+.000/-.040)	.061	(+/-).003	.218	(+.005/-.005)	33,710	19,240	48.30
WS-425	4.250	4.120	.068	4.084	(+.000/-.040)	.061	(+/-).003	.228	(+.005/-.005)	34,210	19,530	51.30
WS-431	4.312	4.182	.068	4.147	(+.000/-.040)	.061	(+/-).003	.228	(+.005/-.005)	34,710	19,810	52.10
WS-433	4.331	4.200	.068	4.164	(+.000/-.040)	.061	(+/-).003	.228	(+.005/-.005)	34,860	19,900	52.30
WS-437	4.375	4.245	.068	4.208	(+.000/-.040)	.061	(+/-).003	.228	(+.005/-.005)	35,210	20,100	52.80
WS-443	4.437	4.307	.068	4.271	(+.000/-.040)	.061	(+/-).003	.228	(+.005/-.005)	35,710	20,390	53.60
WS-450	4.500	4.364	.068	4.326	(+.000/-.040)	.061	(+/-).003	.238	(+.005/-.005)	36,220	21,630	56.80
WS-456	4.562	4.422	.079	4.384	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	43,340	22,570	70.70
WS-462	4.625	4.485	.079	4.447	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	43,940	22,890	71.60
WS-468	4.687	4.547	.079	4.508	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	44,530	23,190	72.60
WS-472	4.724	4.584	.079	4.546	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	44,880	23,370	73.20
WS-475	4.750	4.610	.079	4.571	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	45,130	23,500	73.60
WS-481	4.812	4.672	.079	4.633	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	45,720	23,810	74.50
WS-487	4.875	4.735	.079	4.695	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	46,310	24,120	75.30
WS-493	4.937	4.797	.079	4.757	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	46,900	24,430	76.30
WS-500	5.000	4.856	.079	4.816	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	47,500	25,450	77.30
WS-511	5.118	4.974	.079	4.934	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	48,620	26,050	79.10
WS-512	5.125	4.981	.079	4.939	(+.000/-.040)	.072	(+/-).004	.250	(+.005/-.005)	48,690	26,080	79.10
WS-525	5.250	5.107	.079	5.064	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	49,880	26,720	81.10
WS-537	5.375	5.228	.079	5.187	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	51,060	28,120	83.00
WS-550	5.500	5.353	.079	5.308	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	52,250	28,770	84.90
WS-551	5.511	5.364	.079	5.320	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	52,360	28,830	85.10

NOTE: MINIMUM LINE ORDER MAY APPLY

MISCELLANEOUS ACCESSORIES



Seal Source Inc. 2007

WS SERIES - SPIRAL EXTERNAL

MISCELLANEOUS
ACCESSORIES



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	Part Weight
WS-562	5.625	5.478	.079	5.433	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	53,440	29,420	86.90
WS-575	5.750	5.597	.079	5.550	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	54,630	31,300	88.60
WS-587	5.875	5.722	.079	5.674	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	55,810	31,980	90.60
WS-590	5.905	5.752	.079	5.705	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	56,100	32,140	91.10
WS-600	6.000	5.847	.079	5.798	(+.000/-.050)	.072	(+/-).004	.250	(+.005/-.005)	57,000	32,660	92.50
WS-612	6.125	5.953	.094	5.903	(+.000/-.050)	.086	(+/-).004	.312	(+.006/-.006)	69,500	37,230	142.40
WS-625	6.250	6.078	.094	6.026	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	70,920	37,990	144.40
WS-629	6.299	6.127	.094	6.076	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	71,480	38,290	145.60
WS-637	6.375	6.203	.094	6.152	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	72,340	38,750	147.40
WS-650	6.500	6.328	.094	6.274	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	73,760	39,510	150.20
WS-662	6.625	6.443	.094	6.390	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	75,180	42,620	152.90
WS-675	6.750	6.568	.094	6.513	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	76,600	43,420	155.80
WS-687	6.875	6.693	.094	6.638	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	78,010	44,220	158.70
WS-700	7.000	6.818	.094	6.761	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	79,430	45,030	161.50
WS-712	7.125	6.933	.094	6.877	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	80,850	48,350	164.70
WS-725	7.250	7.058	.094	6.999	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	82,270	49,200	167.50
WS-737	7.375	7.183	.094	7.125	(+.000/-.060)	.086	(+/-).004	.312	(+.006/-.006)	83,690	50,050	170.50
WS-750	7.500	7.308	.094	7.250	(+.000/-.070)	.086	(+/-).004	.312	(+.006/-.006)	85,110	50,890	173.40
WS-762	7.625	7.423	.094	7.363	(+.000/-.070)	.086	(+/-).004	.312	(+.006/-.006)	86,520	54,440	176.00
WS-775	7.750	7.548	.094	7.486	(+.000/-.070)	.086	(+/-).004	.312	(+.006/-.006)	87,940	55,330	178.90
WS-787	7.875	7.673	.094	7.611	(+.000/-.070)	.086	(+/-).004	.312	(+.006/-.006)	89,360	56,220	181.80
WS-800	8.000	7.798	.094	7.734	(+.000/-.070)	.086	(+/-).004	.312	(+.006/-.006)	90,780	57,110	183.70
WS-825	8.250	8.038	.094	7.972	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	93,620	61,820	229.20
WS-850	8.500	8.288	.094	8.220	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	96,450	63,690	236.20
WS-875	8.750	8.528	.094	8.459	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	99,290	68,650	242.90
WS-900	9.000	8.778	.094	8.707	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	102,130	70,620	249.80
WS-925	9.250	9.018	.094	8.945	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	104,960	75,850	256.50
WS-950	9.500	9.268	.094	9.194	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	107,800	77,900	263.50
WS-975	9.750	9.508	.094	9.432	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	110,640	83,390	270.10
WS-1000	10.000	9.758	.094	9.680	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	113,470	85,530	277.10
WS-1025	10.250	9.998	.094	9.918	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	116,310	91,290	283.70
WS-1050	10.500	10.248	.094	10.166	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	119,150	93,520	290.70
WS-1075	10.750	10.488	.094	10.405	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	121,990	99,540	297.40
WS-1100	11.000	10.738	.094	10.653	(+.000/-.070)	.086	(+/-).004	.375	(+.006/-.006)	124,820	101,860	304.30

NOTE: MINIMUM LINE ORDER MAY APPLY

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WST SERIES - SPIRAL EXTERNAL

MISCELLANEOUS
ACCESSORIES



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	Part Weight
WST-300	3.000	2.860	.103	2.838	(+.000/-.030)	.093	(+/-).003	.188	(+.005/-.005)	35,060	14,840	44.30
WST-306	3.062	2.920	.103	2.897	(+.000/-.030)	.093	(+/-).003	.188	(+.005/-.005)	35,790	15,370	45.20
WST-312	3.125	2.980	.103	2.957	(+.000/-.030)	.093	(+/-).003	.188	(+.005/-.005)	36,520	16,130	46.10
WST-315	3.156	3.010	.103	2.986	(+.000/-.030)	.093	(+/-).003	.188	(+.005/-.005)	36,880	16,290	46.50
WST-325	3.250	3.100	.103	3.075	(+.000/-.030)	.093	(+/-).003	.188	(+.005/-.005)	37,980	17,230	47.80
WST-334	3.344	3.190	.103	3.164	(+.000/-.030)	.093	(+/-).003	.188	(+.005/-.005)	39,080	18,200	49.20
WST-343	3.437	3.280	.103	3.254	(+.000/-.030)	.093	(+/-).003	.188	(+.005/-.005)	40,170	19,190	50.50
WST-350	3.500	3.340	.120	3.153	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	48,820	19,790	83.60
WST-354	3.543	3.381	.120	3.356	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	49,420	20,290	84.40
WST-362	3.625	3.458	.120	3.433	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	50,560	21,520	86.20
WST-368	3.687	3.517	.120	3.490	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	51,430	22,150	87.40
WST-375	3.750	3.577	.120	3.550	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	52,310	23,060	89.00
WST-387	3.875	3.696	.120	3.670	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	54,050	24,650	91.90
WST-393	3.938	3.756	.120	3.730	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	54,930	25,330	93.30
WST-400	4.000	3.815	.120	3.787	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	55,800	26,300	94.70
WST-425	4.250	4.065	.120	4.032	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	59,280	27,940	100.70
WST-437	4.375	4.190	.120	4.162	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	61,030	28,760	103.70
WST-450	4.500	4.310	.120	4.280	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	62,770	30,220	106.50
WST-475	4.750	4.550	.120	4.515	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	66,260	33,580	112.20
WST-500	5.000	4.790	.120	4.755	(+.000/-.040)	.111	(+/-).003	.250	(+.005/-.005)	69,740	37,110	117.20
WST-525	5.250	5.030	.139	4.995	(+.000/-.050)	.127	(+/-).004	.375	(+.006/-.006)	83,790	40,820	217.00
WST-550	5.500	5.265	.139	5.229	(+.000/-.050)	.127	(+/-).004	.375	(+.006/-.006)	87,780	45,880	226.70
WST-575	5.750	5.505	.139	5.466	(+.000/-.050)	.127	(+/-).004	.375	(+.006/-.006)	91,770	49,990	236.50
WST-600	6.000	5.745	.139	5.705	(+.000/-.050)	.127	(+/-).004	.375	(+.006/-.006)	95,760	54,290	246.40
WST-625	6.250	5.985	.174	5.942	(+.000/-.060)	.165	(+/-).005	.312	(+.006/-.006)	129,590	58,760	265.90
WST-650	6.500	6.225	.174	6.182	(+.000/-.060)	.165	(+/-).005	.312	(+.006/-.006)	134,780	63,410	276.90
WST-675	6.750	6.465	.174	6.420	(+.000/-.060)	.165	(+/-).005	.312	(+.006/-.006)	139,960	68,230	287.60
WST-700	7.000	6.705	.174	6.658	(+.000/-.060)	.165	(+/-).005	.312	(+.006/-.006)	145,140	73,230	298.40
WST-725	7.250	6.942	.174	6.894	(+.000/-.070)	.165	(+/-).005	.312	(+.006/-.006)	172,190	78,290	374.80
WST-750	7.500	7.180	.209	7.130	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	178,130	84,820	445.00
WST-775	7.750	7.420	.209	7.368	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	184,070	90,390	459.80
WST-800	8.000	7.660	.209	7.607	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	190,000	96,130	474.70
WST-825	8.250	7.900	.209	7.845	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	195,940	102,050	489.50
WST-850	8.500	8.140	.209	8.083	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	201,880	108,150	504.30
WST-875	8.750	8.383	.209	8.321	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	207,820	113,800	519.10
WST-900	9.000	8.620	.209	8.560	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	213,750	120,870	533.90
WST-925	9.250	8.860	.209	8.798	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	219,690	127,500	548.70
WST-950	9.500	9.100	.209	9.036	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	225,630	134,300	563.50
WST-975	9.750	9.338	.209	9.273	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	231,570	141,970	578.20
WST-1000	10.000	9.575	.209	9.508	(+.000/-.070)	.189	(+/-).005	.375	(+.006/-.006)	237,500	150,560	592.80

NOTE: MINIMUM LINE ORDER MAY APPLY

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WSM SERIES - SPIRAL EXTERNAL

MISCELLANEOUS
ACCESSORIES



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	Part Weight
WSM-268	2.687	2.541	.086	2.523	(+.000/-.025)	.078	(+/-).003	.200	(+.005/-.005)	27,660	13,870	35.90
WSM-275	2.750	2.602	.103	2.584	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	32,140	14,390	49.10
WSM-287	2.875	2.721	.103	2.702	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	33,600	15,650	51.20
WSM-293	2.937	2.779	.103	2.760	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	34,320	16,400	52.30
WSM-300	3.000	2.838	.103	2.818	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	35,060	17,180	53.30
WSM-306	3.062	2.898	.103	2.878	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	35,790	17,750	54.40
WSM-312	3.125	2.957	.103	2.936	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	36,520	18,560	55.40
WSM-315	3.156	2.986	.103	2.965	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	36,880	18,960	55.90
WSM-325	3.250	3.076	.103	3.054	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	37,980	19,990	57.50
WSM-334	3.344	3.166	.103	3.144	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	39,080	21,040	59.20
WSM-343	3.437	3.257	.103	3.234	(+.000/-.030)	.093	(+/-).003	.225	(+.005/-.005)	40,170	21,870	60.80
WSM-350	3.500	3.316	.120	3.293	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	48,820	22,760	90.30
WSM-354	3.543	3.357	.120	3.333	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	49,420	23,290	91.00
WSM-362	3.625	3.435	.120	3.411	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	50,560	24,340	93.10
WSM-368	3.687	3.493	.120	3.469	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	51,430	25,280	94.60
WSM-375	3.750	3.552	.120	3.527	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	52,310	26,240	96.10
WSM-387	3.875	3.673	.120	3.647	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	54,050	27,670	99.20
WSM-393	3.938	3.734	.120	3.708	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	54,930	28,390	100.80
WSM-400	4.000	3.792	.120	3.765	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	55,800	29,410	102.20
WSM-425	4.250	4.065	.120	4.037	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	59,280	27,940	109.30
WSM-437	4.375	4.190	.120	4.161	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	61,030	28,760	112.50
WSM-450	4.500	4.310	.120	4.280	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	62,770	30,220	115.60
WSM-475	4.750	4.550	.120	4.518	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	66,260	36,930	121.80
WSM-500	5.000	4.790	.120	4.756	(+.000/-.035)	.111	(+/-).003	.270	(+.005/-.005)	69,740	37,110	127.10
WSM-525	5.250	5.030	.139	4.995	(+.000/-.050)	.127	(+/-).004	.350	(+.006/-.006)	83,790	40,820	201.60
WSM-550	5.500	5.265	.139	5.228	(+.000/-.050)	.127	(+/-).004	.350	(+.006/-.006)	87,780	45,880	210.60
WSM-575	5.750	5.505	.139	5.466	(+.000/-.050)	.127	(+/-).004	.350	(+.006/-.006)	91,770	49,990	219.70
WSM-600	6.000	5.745	.139	5.705	(+.000/-.050)	.127	(+/-).004	.350	(+.006/-.006)	95,760	54,290	229.00
WSM-625	6.250	5.985	.174	5.938	(+.000/-.060)	.156	(+/-).005	.418	(+.007/-.007)	122,520	58,760	352.20
WSM-650	6.500	6.225	.174	6.181	(+.000/-.060)	.156	(+/-).005	.418	(+.007/-.007)	127,420	63,410	365.90
WSM-675	6.750	6.465	.174	6.410	(+.000/-.060)	.156	(+/-).005	.418	(+.007/-.007)	132,330	68,230	378.90
WSM-700	7.000	6.705	.174	6.648	(+.000/-.060)	.156	(+/-).005	.418	(+.007/-.007)	137,230	73,230	392.30
WSM-725	7.250	6.942	.174	6.891	(+.000/-.060)	.156	(+/-).005	.418	(+.007/-.007)	142,130	78,920	424.50
WSM-750	7.500	7.180	.209	7.130	(+.000/-.070)	.187	(+/-).005	.437	(+.007/-.007)	176,240	84,820	530.90
WSM-775	7.750	7.420	.209	7.368	(+.000/-.070)	.187	(+/-).005	.437	(+.007/-.007)	182,120	90,390	547.90
WSM-800	8.000	7.660	.209	7.606	(+.000/-.070)	.187	(+/-).005	.437	(+.007/-.007)	187,990	96,130	564.90
WSM-825	8.250	7.900	.209	7.845	(+.000/-.070)	.187	(+/-).005	.437	(+.007/-.007)	193,870	102,050	582.00
WSM-850	8.500	8.140	.209	8.083	(+.000/-.070)	.187	(+/-).005	.437	(+.007/-.007)	199,740	108,150	599.00
WSM-875	8.750	8.383	.209	8.324	(+.000/-.070)	.187	(+/-).005	.437	(+.007/-.007)	205,620	113,800	616.30
WSM-900	9.000	8.620	.209	8.560	(+.000/-.070)	.187	(+/-).005	.500	(+.007/-.007)	211,490	120,870	729.60
WSM-925	9.250	8.860	.209	8.798	(+.000/-.070)	.187	(+/-).005	.500	(+.007/-.007)	217,370	127,500	749.10
WSM-950	9.500	9.100	.209	9.036	(+.000/-.070)	.187	(+/-).005	.500	(+.007/-.007)	223,240	134,300	768.50
WSM-975	9.750	9.338	.209	9.275	(+.000/-.070)	.187	(+/-).005	.500	(+.007/-.007)	229,120	141,970	788.10
WSM-1000	10.000	9.575	.209	9.508	(+.000/-.070)	.187	(+/-).005	.500	(+.007/-.007)	234,990	150,560	807.10
WSM-1025	10.250	9.814	.209	9.745	(+.000/-.090)	.187	(+/-).005	.500	(+.007/-.007)	240,870	157,950	820.00
WSM-1050	10.500	10.054	.209	9.984	(+.000/-.090)	.187	(+/-).005	.500	(+.007/-.007)	246,740	165,510	839.50
WSM-1075	10.750	10.293	.209	10.221	(+.000/-.090)	.187	(+/-).005	.500	(+.007/-.007)	252,620	174,010	858.90

NOTE: MINIMUM LINE ORDER MAY APPLY

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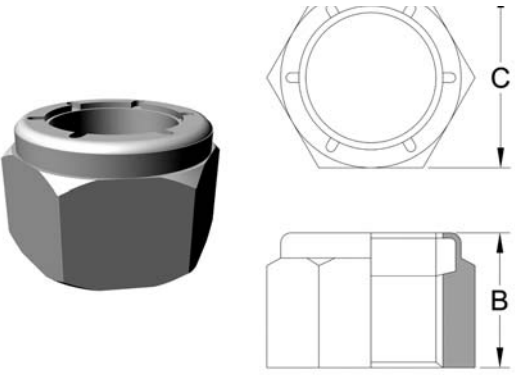
WSM SERIES - SPIRAL EXTERNAL

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	Part Weight
WSM-1100	11.000	10.533	.209	10.459	(+.000/-0.090)	.187	(+/-0.005)	.500	(+.007/-0.007)	258,490	181,950	885.70
WSM-1125	11.250	10.772	.209	10.692	(+.000/-0.090)	.187	(+/-0.005)	.500	(+.007/-0.007)	264,360	190,060	897.40
WSM-1150	11.500	11.011	.209	10.934	(+.000/-0.090)	.187	(+/-0.005)	.562	(+.015/-0.010)	270,240	199,160	1036.70
WSM-1175	11.750	11.250	.209	11.171	(+.000/-0.090)	.187	(+/-0.005)	.562	(+.015/-0.010)	276,120	207,640	1058.50
WSM-1200	12.000	11.490	.209	11.410	(+.000/-0.090)	.187	(+/-0.005)	.562	(+.015/-0.010)	281,990	216,300	1080.40
WSM-1225	12.250	11.729	.209	11.647	(+.000/-0.090)	.187	(+/-0.005)	.562	(+.015/-0.010)	287,860	226,000	1102.20
WSM-1250	12.500	11.969	.209	11.885	(+.000/-0.090)	.187	(+/-0.005)	.562	(+.015/-0.010)	293,740	235,030	1124.20
WSM-1275	12.750	12.208	.209	12.124	(+.000/-0.110)	.187	(+/-0.005)	.562	(+.015/-0.010)	299,610	244,240	1142.40
WSM-1300	13.000	12.448	.209	12.361	(+.000/-0.110)	.187	(+/-0.005)	.662	(+.015/-0.010)	305,490	253,620	1382.20
WSM-1325	13.250	12.687	.209	12.598	(+.000/-0.110)	.187	(+/-0.005)	.662	(+.015/-0.010)	311,360	264,120	1407.90
WSM-1350	13.500	12.927	.209	12.837	(+.000/-0.110)	.187	(+/-0.005)	.662	(+.015/-0.010)	317,240	273,870	1433.70
WSM-1375	13.750	13.166	.209	13.074	(+.000/-0.110)	.187	(+/-0.005)	.662	(+.015/-0.010)	323,110	283,800	1459.40
WSM-1400	14.000	13.405	.209	13.311	(+.000/-0.110)	.187	(+/-0.005)	.662	(+.015/-0.010)	328,990	294,900	1485.10
WSM-1425	14.250	13.644	.209	13.548	(+.000/-0.110)	.187	(+/-0.005)	.662	(+.015/-0.010)	334,860	305,200	1510.80
WSM-1450	14.500	13.884	.209	13.787	(+.000/-0.110)	.187	(+/-0.005)	.750	(+.015/-0.010)	340,740	315,680	1751.70
WSM-1475	14.750	14.123	.209	14.024	(+.000/-0.110)	.187	(+/-0.005)	.750	(+.015/-0.010)	346,610	327,380	1780.80
WSM-1500	15.000	14.363	.209	14.262	(+.000/-0.110)	.187	(+/-0.005)	.750	(+.015/-0.010)	352,490	338,230	1810.00



NOTE: MINIMUM LINE ORDER MAY APPLY

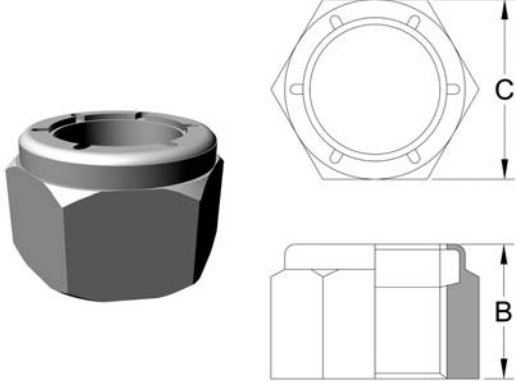
CAT PARTS - LOCK NUTS - INCH

Ref.Number	Thread Size	Dimensions		\$	LOCK NUTS 1- Grade 8/ heat treated 2- Black phosphate Finish 3- Blue nylon locking insert
		C	B		
RCAT-2J6384	1.250 - 12	2.00	1.11	22.55	
RCAT-6M5032	1.375 - 12	2.19	1.19	21.30	
RCAT-2J3950	1.500 - 12	2.38	1.31	25.29	
RCAT-5J5731	1.750 - 12	2.56	1.47	30.20	
RCAT-2J3247	1.750 - 12	2.75	1.47	44.66	
RCAT-2J0564	2.000 - 12	3.13	1.67	64.38	
RCAT-3J9545	2.000 - 12	3.13	2.41	105.39	
RCAT-5J3488	2.250 - 12	3.50	1.94	108.54	
RCAT-3J6899	2.250 - 12	3.50	2.81	147.86	
RCAT-2J7686	2.500 - 12	4.00	2.19	146.73	
RCAT-3J9449	2.500 - 12	4.00	2.64	169.45	
RCAT-4J6888	2.750 - 12	4.00	2.19	119.33	
RCAT-4J8734	2.750 - 12	4.00	3.09	204.79	
RCAT-7J9250	3.250 - 12	4.50	3.13	218.99	
RCAT-9X6017	3.750 - 12	5.25	3.53	543.15	
RCAT-3G5022	4.500 - 12	6.50	4.11	611.07	

NYLON INSERT LOCK NUTS

1- Grade 8/ heat-treated
2- Blue nylon locking insert

MATERIALS:
X53 Medium carbon steel heat treated
RC 26-30, Phos. and Oil



LOCK NUTS - METRIC CATERPILLAR REF.

Ref.Number	Thread Size	Dimensions		\$	Ref.Number	Thread Size	Dimensions		\$
		C	B				C	B	
RCAT-8T5065	M-30-3.5	1.811	1.150	29.95	RCAT-7Y4956	M-90-2	5.087	3.307	357.50
RCAT-8T3018	M-36-4	2.165	1.417	40.45	RCAT-1232112	M-90-2	5.087	2.992	331.05
RCAT-0875504	M-64-2	3.718	2.480	169.88	RCAT-0875385	M-95-2	5.281	3.464	406.70
RCAT-1475835	M-64-2	3.718	2.480	169.88	RCAT-1261971	M-100-2	5.735	3.465	532.90
RCAT-7Y4622	M-72-2	4.125	2.755	162.25	RCAT-1163513	M-105-2	5.875	3.819	745.35
RCAT-1232060	M-80-2	4.500	2.520	207.63	RCAT-1163516	M-120-2	6.687	4.252	983.87
RCAT-7Y4695	M-80-2	4.500	2.992	261.25					

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