

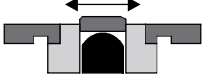




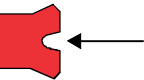
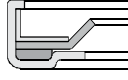














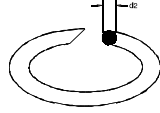






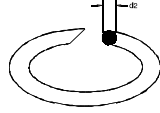






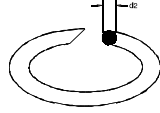








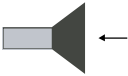


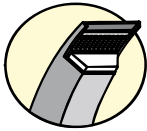
















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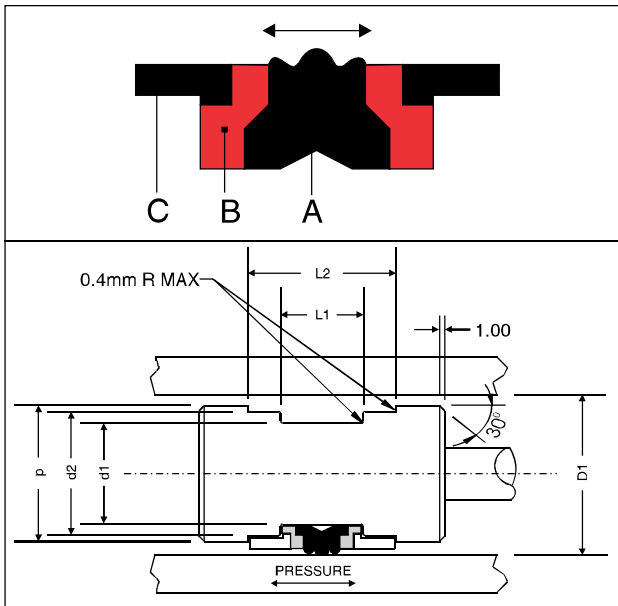
PROFILE	STYLE	MATERIAL	PAGE NO	PROFILE	STYLE	MATERIAL	PAGE NO																																							
HYDRAULIC SEALS - PISTON SEALS				HYDRAULIC SEALS - GUIDE RINGS																																										
	PCA	NBR, Polyester Elastomer, Thermo-Plastic Polymer	3		GA	Composite PTFE	16																																							
	PCI	NBR, Polyester Elastomer, Thermo-Plastic Polymer	4		GB	Polyester Fabric																																								
	LD	Nitrile Rubber		5		GB	Thermoplastic	17																																						
	PTA	NBR, Composite PTFE FKM, Composite PTFE	6		ROTARY SHAFT SEALS																																									
	SUA	Polyurethane		 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>ATA</td> <td>PTFE Compound Filled Carbon</td> <td rowspan="2">19</td> </tr> <tr> <td>VRA</td> <td>NBR</td> </tr> <tr> <td>VRS</td> <td>NBR</td> <td rowspan="2">20</td> </tr> <tr> <td>VRL</td> <td>NBR</td> </tr> <tr> <td>AIA, AIB, ACA, ACC</td> <td>NBR</td> <td rowspan="2">26</td> </tr> <tr> <td>AIA, AIB</td> <td>FKM</td> </tr> <tr> <td>AFA</td> <td>NBR / Fabric</td> <td>26</td> </tr> </table>				ATA	PTFE Compound Filled Carbon	19	VRA	NBR	VRS	NBR	20	VRL	NBR	AIA, AIB, ACA, ACC	NBR	26	AIA, AIB	FKM	AFA	NBR / Fabric	26																					
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AIA, AIB, ACA, ACC	NBR	26																																												
AIA, AIB	FKM																																													
AFA	NBR / Fabric	26																																												
HYDRAULIC SEALS - ROD SEALS				ROTARY SHAFT SEALS																																										
	RTA	NBR, Composite PTFE FKM, Composite PTFE	8		VRA	NBR	19																																							
	RUB	Polyurethane	9		VRS	NBR																																								
	RVA	Rubber / Fabric	10		VRL	NBR	20																																							
	RVB	Rubber / Fabric			AIA, AIB, ACA, ACC	NBR																																								
HYDRAULIC SEALS - WIPER SEALS				ROTARY SHAFT SEALS																																										
	WRB	NBR	11		AIA, AIB	FKM	26																																							
	WDD	NBR	12	O-RINGS																																										
	WCA	NBR		 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>OR</td> <td>NBR</td> <td>27</td> </tr> <tr> <td>OR</td> <td>FKM</td> <td>30</td> </tr> <tr> <td>ORS KIT</td> <td>NBR FKM</td> <td>32</td> </tr> <tr> <td>CD</td> <td>NBR FKM SILICON PU</td> <td rowspan="2">33</td> </tr> <tr> <td>LA</td> <td>NBR</td> </tr> <tr> <td></td> <td>WRC</td> <td>NBR</td> <td>13</td> <td colspan="4" rowspan="2">  </td> </tr> <tr> <td></td> <td>WDA</td> <td>Polyurethane</td> <td rowspan="2">14</td> </tr> <tr> <td></td> <td>WCC</td> <td>Polyurethane</td> <td rowspan="2">15</td> <td colspan="4" rowspan="2">  </td> </tr> <tr> <td></td> <td>WTC</td> <td>NBR, Composite PTFE</td> <td></td> <td>WDB</td> <td>PU</td> </tr> </table>				OR	NBR	27	OR	FKM	30	ORS KIT	NBR FKM	32	CD	NBR FKM SILICON PU	33	LA	NBR		WRC	NBR	13						WDA	Polyurethane	14		WCC	Polyurethane	15						WTC	NBR, Composite PTFE		WDB
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PROFILE	STYLE	MATERIAL	PAGE NO	PROFILE	STYLE	MATERIAL	PAGE NO
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BONDED SEALS						Max Multipurpose Grease	
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NIRLON V-BELTS						Stainless Steel Magnetic Tray	
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Note : Max Spare is continuously adding new products & sizes in it's standard stock range. Hence do not hesitate to contact sales team for your requirements.

Offering all type of seals :

- Upto 2000 mm In diameter
- Temperature range from -200°C to + 260°C
- From 10 psi. to 12000 psi
- More than 50 different sealing materials



STYLE : PCA

TYPE : Double Acting Compact Seal

MATERIAL :

- A) SEAL RING : NT 75
Max Spare NT 75 is a Acrylonitrile Butadiene Rubber (NBR) compound with a hardness of 75°/80° shore 'A'.
- B) BACK UP RING : PU3
PU3 is a Polyester based hard Polyurethane compound.
- C) BEARING RINGS : ACT-1
ACT-1 is Glass Filled Acetal.

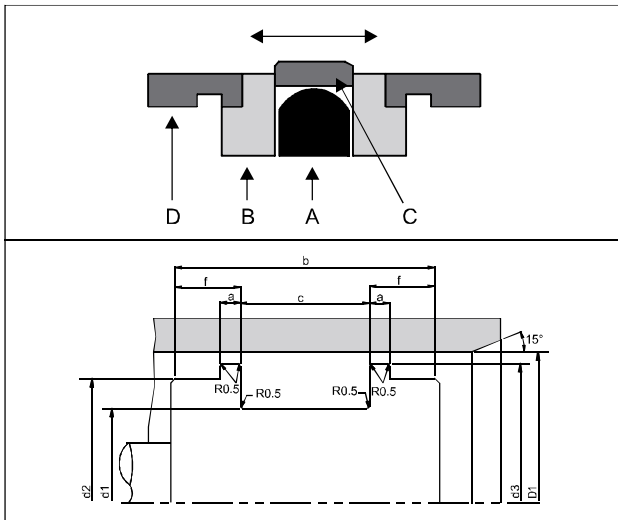
MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C
Pressure : 400 BAR
Speed : 0.5 mtr./sec.

DETAILS :

PCA is a robust compact double acting seal assembly designed specially for one piece pistons. It uses a nitrile sealing element which has proven itself in service to be extremely wear resistant and capable of working most effectively in a wide variety of medium duty applications. The seal is also suitable for two piece piston applications.

Max Spare Part No.	D1 (H9)	d1 (h9)	d2 (h9)	L1 (±0.2)	L2 (±0.2)	p (h11)	Max Spare Part No.	D1 (H9)	d1 (h9)	d2 (h9)	L1 (±0.2)	L2 (±0.2)	p (h11)
PCA 0110901	20.00	11.00	17.00	13.50	17.70	19.00	PCA 0850901	110.00	85.00	103.10	22.40	35.10	108.00
PCA 0150901	25.00	15.00	21.00	12.00	20.00	23.00	PCA 0920901	110.00	92.00	106.00	22.50	29.70	109.00
PCA 0150902	25.00	15.00	21.45	16.40	29.10	23.50	PCA 0900901	115.00	90.00	108.10	22.40	35.10	113.00
PCA 0170901	30.00	17.00	26.50	15.40	28.10	28.50	PCA 0950901	120.00	95.00	113.10	22.40	35.10	118.00
PCA 0210901	30.00	21.00	27.00	13.50	17.70	29.00	PCA 1000901	125.00	100.00	118.10	25.40	38.10	122.96
PCA 0220901	32.00	22.00	28.50	16.40	29.10	30.50	PCA 1030901	125.00	103.00	121.00	26.50	36.70	124.00
PCA 0240901	32.00	24.00	29.00	10.00	18.00	31.00	PCA 1050901	125.00	105.00	120.00	25.40	38.10	123.00
PCA 0250901	35.00	25.00	31.40	16.40	29.10	33.50	PCA 1080901	125.00	108.00	121.00	26.50	40.90	124.40
PCA 0240902	40.00	24.00	35.40	18.40	31.10	38.50	PCA 1050902	130.00	105.00	122.60	25.40	44.40	127.50
PCA 0260901	40.00	26.00	36.00	15.50	20.70	39.00	PCA 1100901	135.00	110.00	127.60	25.40	44.40	132.50
PCA 0300901	40.00	30.00	35.40	16.40	29.10	38.50	PCA 1100902	135.00	110.00	128.10	25.40	38.10	133.00
PCA 0300902	40.00	30.00	37.00	12.50	20.50	39.00	PCA 1150901	140.00	115.00	132.60	25.40	44.40	137.50
PCA 0320901	40.00	32.00	36.00	15.50	21.90	39.40	PCA 1150903	140.00	115.00	133.00	25.40	38.10	138.00
PCA 0280901	42.00	28.00	38.00	15.50	20.70	41.00	PCA 1180901	140.00	118.00	136.00	26.50	36.70	139.00
PCA 0290901	45.00	29.00	40.40	18.40	31.10	43.70	PCA 1200901	145.00	120.00	137.60	25.40	44.40	142.50
PCA 0350901	45.00	35.00	40.40	16.40	29.10	43.50	PCA 1200902	145.00	120.00	138.30	25.40	38.10	142.95
PCA 0340901	50.00	34.00	45.40	18.40	31.10	48.50	PCA 1250901	150.00	125.00	142.60	25.40	44.40	147.50
PCA 0340902	50.00	34.00	46.00	20.00	26.20	48.00	PCA 1250902	150.00	125.00	143.00	25.40	38.10	148.00
PCA 0350902	50.00	35.00	46.00	20.00	30.00	48.50	PCA 1280901	150.00	128.00	146.00	26.50	36.70	149.00
PCA 0380902	50.00	38.00	46.00	20.50	28.90	49.40	PCA 1300901	155.00	130.00	147.60	25.40	44.40	152.50
PCA 0390901	55.00	39.00	50.36	18.40	31.10	53.50	PCA 1300903	160.00	130.00	152.60	25.40	44.40	157.50
PCA 0440901	60.00	44.00	55.40	18.40	31.10	58.50	PCA 1300902	160.00	130.00	153.00	25.40	38.10	158.00
PCA 0440902	60.00	44.00	56.00	20.50	26.70	59.00	PCA 1350901	160.00	135.00	152.60	25.40	44.40	157.50
PCA 0480901	60.00	48.00	56.00	20.50	28.90	59.40	PCA 1380901	160.00	138.00	156.00	26.50	36.70	159.00
PCA 0470901	63.00	47.00	58.40	18.40	31.10	61.50	PCA 1400901	165.00	140.00	157.60	25.40	44.40	162.50
PCA 0470902	63.00	47.00	59.00	20.50	28.90	62.00	PCA 1450901	170.00	145.00	161.70	25.40	50.80	167.50
PCA 0480902	63.00	48.00	59.00	20.00	30.00	61.50	PCA 1500901	175.00	150.00	166.70	25.40	50.80	172.10
PCA 0510901	63.00	51.00	59.00	20.50	28.90	62.40	PCA 1500903	180.00	150.00	172.95	35.40	48.10	177.87
PCA 0500901	65.00	50.00	60.40	18.40	31.10	65.00	PCA 1550901	180.00	155.00	171.70	25.40	50.80	177.00
PCA 0500902	70.00	50.00	64.20	22.40	35.10	68.34	PCA 1580901	180.00	158.00	176.00	26.50	36.70	179.00
PCA 0540901	70.00	54.00	66.00	20.50	26.70	69.00	PCA 1600901	185.00	160.00	176.70	25.40	50.80	182.00
PCA 0580901	70.00	58.00	66.00	20.50	28.90	68.50	PCA 1650901	190.00	165.00	181.70	25.40	50.80	187.00
PCA 0550901	75.00	55.00	69.20	22.40	35.10	73.32	PCA 1700901	195.00	170.00	186.70	25.40	50.80	192.00
PCA 0600901-A	80.00	60.00	74.15	22.40	35.10	78.34	PCA 1700902	200.00	170.00	193.00	35.40	48.10	198.00
PCA 0600902	80.00	60.00	75.00	25.40	38.10	78.00	PCA 1750901	200.00	175.00	191.60	25.40	50.80	197.00
PCA 0620901	80.00	62.00	76.00	22.40	29.70	79.00	PCA 1750902	200.00	175.00	196.00	31.50	44.70	199.00
PCA 0650901	80.00	65.00	76.00	20.00	30.00	79.00	PCA 1850901	210.00	185.00	201.60	25.40	50.80	207.00
PCA 0650902	85.00	65.00	79.15	22.40	35.10	83.34	PCA 1900902	220.00	190.00	212.70	35.40	48.10	217.00
PCA 0700901	90.00	70.00	84.15	22.40	35.10	88.30	PCA 1950901	220.00	195.00	211.60	25.40	50.80	217.00
PCA 0750901	95.00	75.00	89.15	22.40	35.10	93.30	PCA 2050901	230.00	205.00	221.60	25.40	50.80	227.00
PCA 0750902	100.00	75.00	93.15	22.40	35.10	98.00	PCA 2150901	240.00	215.00	231.60	25.40	50.80	237.00
PCA 0800901	100.00	80.00	95.00	25.40	38.10	98.00	PCA 2200901	250.00	220.00	242.90	35.40	48.10	247.00
PCA 0820901	100.00	82.00	96.00	22.50	29.70	99.00	PCA 2250901	250.00	225.00	241.60	25.40	50.80	247.00
PCA 0860901	100.00	86.00	96.00	22.50	32.90	98.50	PCA 2750901	300.00	275.00	291.60	25.40	50.80	298.00
PCA 0800902	105.00	80.00	98.10	22.40	35.10	103.00							



STYLE : PCI

TYPE : Double Acting Compact Seal

MATERIAL :

- A) Energizer - NT 75 (Max Spare NT 75 is a Acrylonitrile Butadiene Rubber Compound (NBR) with a hardness of 75°/80° shore 'A')
- B) Backup Rings - Thermoplastic Polymer
- C) Seal Ring - Composite PTFE
- D) Guide Rings - Phenolic Resin Fabric

MAX OPERATING CONDITIONS :

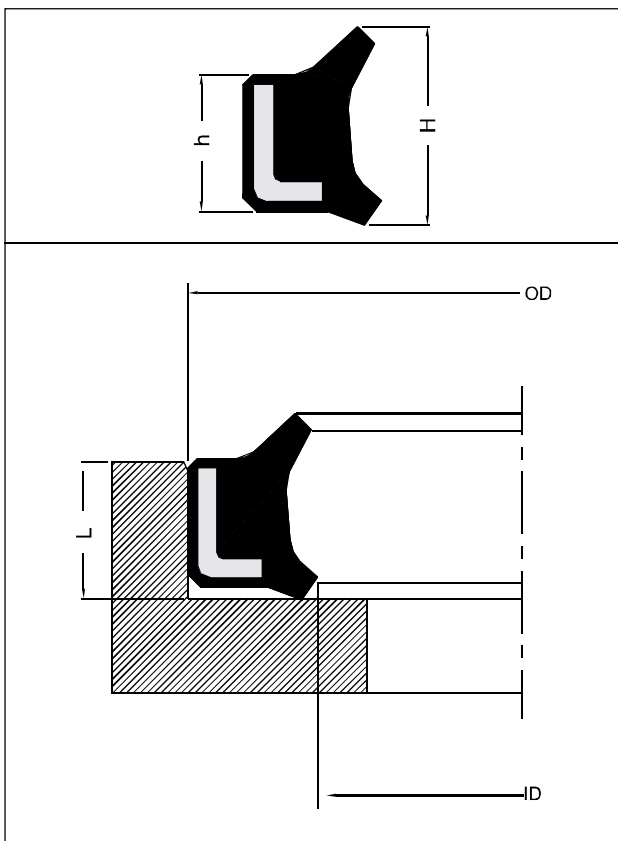
Temp. : -30°C to +100°C (upto 200°C on request)
 Pressure : 400 Bar. (upto 700 bar with modified piston grooves, contact Max Spare for more details)
 Speed : 1.0 mtr./sec.

DETAILS :

The Max Spare style PCI is a robust heavy duty double acting piston seal. PCI style seal comprising of a elastomeric energiser ring, Bronze Filled PTFE sealing ring. Two support rings made of Thermoplastic polymers and two guide rings.

The elastomeric ring energises the sealing ring to force it against cylinder bore, providing a sealing function at low pressure. The two support rings prevent extrusion a sealing ring in high pressure. Two guide ring make contact with cylinder bore thus guide the piston in heavy load condition.

Max Spare Part No.	D1	d1	b	d2	d3	a	c	f
PCI 0470901	63.0	47.0	39.0	55.0	59.0	3.00	20.50	9.25
PCI 0620901	80.0	62.0	43.0	72.0	76.0	3.00	22.50	10.25
PCI 0820901	100.0	82.0	43.0	92.0	96.0	3.00	22.50	10.25
PCI 1030901	125.0	103.0	53.0	115.0	121.0	4.00	26.50	13.25
PCI 1080901	130.0	108.0	53.0	120.0	126.0	4.00	26.50	13.25
PCI 1180902	140.0	118.0	53.0	130.0	136.0	4.00	26.50	13.25
PCI 1380901	160.0	138.0	53.0	150.0	156.0	4.00	26.50	13.25
PCI 1580901	180.0	158.0	57.0	170.0	176.0	6.00	26.50	15.25
PCI 1750901	200.0	175.0	64.0	190.0	196.0	4.50	31.50	16.25
PCI 1950902	220.0	195.0	71.0	210.0	216.0	8.00	31.50	19.75
PCI 2250901	250.0	225.0	85.0	240.0	246.0	15.0	31.50	26.75



MATERIAL :

- A) Basic Material : NBR compound of Hardness 70°/75° Shore 'A'.
- B) Metal Insert : Mild Steel

MAX OPERATING CONDITIONS :

Temp. : -30°C to +100°C
 Pressure : 15 Bar.

DETAILS :

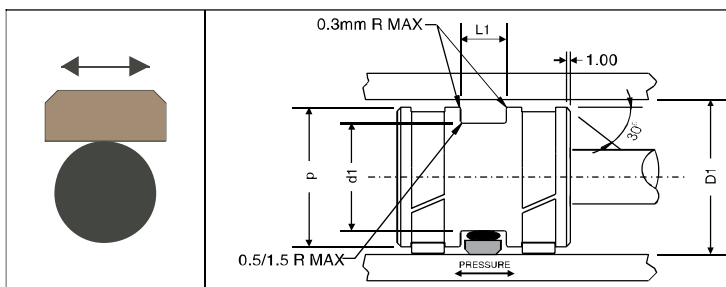
Maxspare LD profile is suitable for static application with the pressure of around 15 Bar and dynamic applications at low speeds.

Max Spare Part No.	ID	OD	h/H	L
LD0310801	31.00	40.00	5.00/7.00	5.50
LD0500802	50.00	75.00	9.50/14.50	10.00
LD0650801	65.00	90.00	9.50/14.50	10.00
LD0730801	73.00	105.00	9.50/14.50	10.00
LD0800801	80.00	105.00	9.50/14.50	10.00
LD0930801	93.00	125.00	9.50/14.50	10.00
LD0950801	95.00	120.00	9.50/14.50	10.00
LD1000801	100.00	125.00	9.50/14.50	10.00
LD1700801	170.00	195.00	9.50/14.50	10.00
LD2250801	225.00	250.00	9.50/14.50	10.00
LD2450801	245.00	270.00	9.50/14.50	10.00

Piston Seals

STYLE : PTA

TYPE : Double Acting



MATERIAL :

INNER O'RING : NT 70. Max Spare NT 70 is a Acrylonitrile Butadiene Rubber (NBR) compound with a hardness of 70⁰/75⁰ shore 'A'.

OUTER SEAL RING : BFT. Max Spare BFT is Bronze Filled with PTFE compound with Bronze content of 40% (for higher pressure 60% BFT is recommended).

MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C (upto +220° C on request)

Pressure : 400 BAR

Speed : 1.0 mtr./sec.

DETAILS :

PTA is a double acting piston seal suitable for light to medium duty hydraulic cylinders & suitable for cylinders with small groove dimensions thus enabling a compact piston. The PTA is a combination of a NBR O'Ring energiser & an outer seal ring made of PTFE added with a filler to increase the resistance of seal ring to high pressure. Generally Bronze is the used filler but also Glass/Graphite Filled PTFE PTA compact seal can be made. The PTA seal can be easily mounted on a single piece piston and also suitable for two piece piston application. The Bronze filled PTFE outer seal ring when in contact with the cylinder bore, the PTFE ensures a stick slip free movement & reduces friction to a minimum. Where as the filler increases the strength in the seal ring to prevent it from extruding & to withstand pressures as high as 400 BAR.

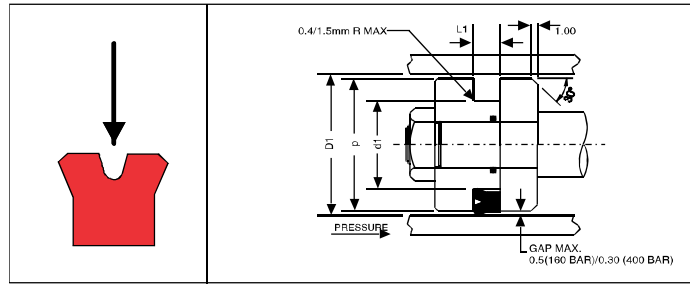
Max Spare Part No.	D1 (H9)	d1 (h9)	L1 (+0.2)	O'Ring Part No.	Max Spare Part No.	D1 (H9)	d1 (h9)	L1 (+0.2)	O'Ring Part No.
PTA 0050801	10.00	5.10	2.20	OR 17800447	PTA 1040802	125.00	104.00	8.10	OR 69910300
PTA 0070801	12.00	7.10	2.20	OR 17800675	PTA 1090801	125.00	109.50	6.30	OR 53310732
PTA 0070802	15.00	7.50	3.20	OR 26200710	PTA 1090803	130.00	109.00	8.10	OR 69910800
PTA 0080801	16.00	8.50	3.20	OR 26200800	PTA 1140801	130.00	114.50	6.30	OR 53311367
PTA 0100801	18.00	10.50	3.20	OR 26201000	PTA 1140802	135.00	114.00	8.10	OR 69911200
PTA 0120801	20.00	12.50	3.20	OR 26201191	PTA 1190801	140.00	119.00	8.10	OR 69911684
PTA 0140801	22.00	14.50	3.20	OR 26201394	PTA 1240802	140.00	124.50	6.30	OR 53312319
PTA 0140802	25.00	14.00	4.20	OR 35301387	PTA 1240801	145.00	124.00	8.10	OR 69912319
PTA 0170801	25.00	17.50	3.20	OR 26201712	PTA 1290803	145.00	129.50	6.30	OR 53312637
PTA 0180801	26.00	18.50	3.20	OR 26201796	PTA 1290801	150.00	129.00	8.10	OR 69912637
PTA 0200801	28.00	20.50	3.20	OR 26202029	PTA 1340802	150.00	134.50	6.30	OR 53313272
PTA 0220801	30.00	22.50	3.20	OR 26202189	PTA 1340801	155.00	134.00	8.10	OR 69913272
PTA 0240801	32.00	24.50	3.20	OR 26202347	PTA 1390801	160.00	139.00	8.10	OR 69913589
PTA 0270801	35.00	27.50	3.20	OR 26202664	PTA 1440802	160.00	144.50	6.30	OR 53314224
PTA 0280801	36.00	28.50	3.20	OR 26202824	PTA 1440801	165.00	144.00	8.10	OR 69914224
PTA 0300801	38.00	30.50	3.20	OR 26202824	PTA 1490801	170.00	149.00	8.10	OR 69914859
PTA 0290801	40.00	29.00	4.20	OR 35302817	PTA 1540801	175.00	154.00	8.10	OR 69915177
PTA 0310802	42.00	31.00	4.20	OR 35302974	PTA 1590801	180.00	159.00	8.10	OR 69915812
PTA 0340801	45.00	34.00	4.20	OR 35303292	PTA 1640802	180.00	164.50	6.30	OR 53316447
PTA 0370801	48.00	37.00	4.20	OR 35303609	PTA 1640801	185.00	164.00	8.10	OR 69916129
PTA 0390801	50.00	39.00	4.20	OR 35303769	PTA 1690801	190.00	169.00	8.10	OR 69916447
PTA 0440801	55.00	44.00	4.20	OR 35304285	PTA 1740801	195.00	174.00	8.10	OR 69917082
PTA 0450801	56.00	45.00	4.20	OR 35304470	PTA 1790801	200.00	179.00	8.10	OR 69917717
PTA 0490801	60.00	49.00	4.20	OR 35304722	PTA 1840801	200.00	184.50	6.30	OR 53318352
PTA 0520801	63.00	52.00	4.20	OR 35305080	PTA 1890801	210.00	189.00	8.10	OR 69918644
PTA 0470804	63.00	47.50	6.30	OR 53304699	PTA 1990801	220.00	199.00	8.10	OR 69919622
PTA 0540801	65.00	54.00	4.20	OR 35305357	PTA 2040802	225.00	204.00	8.10	OR 70020100
PTA 0540802	70.00	54.50	6.30	OR 53305334	PTA 2090801	230.00	209.00	8.10	OR 69920257
PTA 0590801	70.00	59.00	4.20	OR 35305674	PTA 2190801	240.00	219.00	8.10	OR 69921527
PTA 0640803	75.00	64.00	4.20	OR 35306309	PTA 2290801	250.00	229.00	8.10	OR 69922797
PTA 0640801	80.00	64.50	6.30	OR 53306287	PTA 2390801	260.00	239.00	8.10	OR 69923600
PTA 0690803	80.00	69.00	4.20	OR 35306627	PTA 2490801	270.00	249.00	8.10	OR 69924067
PTA 0690801	85.00	69.50	6.30	OR 53306922	PTA 2590801	280.00	259.00	8.10	OR 69925337
PTA 0690802	90.00	69.00	8.10	OR 69906800	PTA 2690801	290.00	269.00	8.10	OR 69926607
PTA 0740801	90.00	74.50	6.30	OR 53307239	PTA 2790801	300.00	279.00	8.10	OR 69927750
PTA 0790801	95.00	79.50	6.30	OR 53307874	PTA 2990801	320.00	299.00	8.10	OR 69929750
PTA 0790802	100.00	79.00	8.10	OR 69907800	PTA 3350801	360.00	335.50	8.10	OR 69932957
PTA 0840801	100.00	84.50	6.30	OR 53308192	PTA 3550801	380.00	355.50	8.10	OR 69935000
PTA 0890801	105.00	89.50	6.30	OR 53308827	PTA 3650801	390.00	365.50	8.10	OR 69935600
PTA 0890802	110.00	89.00	8.10	OR 69908800	PTA 3750801	400.00	375.50	8.10	OR 69937000
PTA 0940801	110.00	94.50	6.30	OR 53309144	PTA 3950801	420.00	395.50	8.10	OR 69939307
PTA 0940803	115.00	94.00	8.10	OR 69909100	PTA 4250801	450.00	425.50	8.10	OR 69941796
PTA 0990801	115.00	99.50	6.30	OR 53309779	PTA 4750801	500.00	475.50	8.10	OR 69946876
PTA 0990802	120.00	99.00	8.10	OR 69909800	PTA 5250801	550.00	525.50	8.10	OR 69952100
PTA 1040801	120.00	104.50	6.30	OR 53310414	PTA 5750801	600.00	575.50	8.10	OR 69956500

Bold sizes are available with FKM (Viton®) O-Ring also.

Piston Seals

STYLE : SUA

TYPE : Single Acting



MATERIAL :

PUX - is a Polyester based Polyurethane compound of shore 'A' 92°.

MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C

Pressure : 300 BAR

Speed : 0.5 mtr./sec.

DETAILS :

The Max Spare style SUA seal is a general purpose seal & has good overall performance. It is a seal suited for split piston but also be used with a single piston. The SUA seal is available in 2 varieties of materials - NBR & Polyurethane. Considering the economic factor with our seal performance the SUA seals made out of NBR are most suitable upto a pressure of 160 BAR and extremely economical. Another good factor is the preload pressure applied by the seal ensures good sealing at low pressures & also misalignment in the movement of the Piston Rod. Due to excellent wear resistance properties of polyurethane the life expected is 3 times that of NBR.

Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.
SUA005L501	12.00	5.00	6.00	5.00	SUA018L504	26.00	18.00	6.50	5.50	SUA028L504	38.00	28.00	8.00	7.00	SUA035L507	45.00	35.00	8.00	7.00
SUA006L501	12.00	6.00	6.50	5.50	SUA021L501	26.00	21.00	6.00	5.00	SUA030L507	38.00	30.00	6.70	5.70	SUA035L513	45.00	35.00	9.00	8.00
SUA008L502	16.00	8.00	6.70	5.70	SUA016L506	26.50	16.00	9.00	8.00	SUA030L506	38.00	30.00	8.00	7.00	SUA035L504	45.00	35.00	11.00	10.00
SUA012L508	16.00	12.00	6.50	5.50	SUA019L501	27.00	19.00	6.00	5.00	SUA030L508	39.00	30.00	9.00	8.00	SUA035L505	45.00	35.50	7.00	6.00
SUA011L502	17.00	11.00	8.00	7.00	SUA018L502	28.00	18.00	8.00	7.30	SUA020L507	40.00	20.00	11.00	10.00	SUA038L501	45.00	38.00	9.00	8.00
SUA010L501	18.00	10.00	6.00	5.00	SUA019L503	28.00	19.00	6.70	5.70	SUA024L501	40.00	24.00	9.00	8.00	SUA036L503	46.00	36.00	8.00	7.00
SUA010L505	18.00	10.00	8.00	7.00	SUA020L504	28.00	20.00	6.00	5.00	SUA025L513	40.00	25.00	9.00	8.00	SUA032L503	48.00	32.00	11.00	10.00
SUA012L501	18.00	12.00	7.00	6.00	SUA020L501	28.00	20.00	7.00	6.00	SUA025L512	40.00	25.00	11.00	10.00	SUA035L512	48.00	35.00	10.00	9.00
SUA010L508	19.00	10.00	9.00	8.00	SUA015L504	30.00	15.00	8.00	7.00	SUA025L510	40.00	25.00	13.00	12.00	SUA038L502	48.00	38.00	9.00	8.00
SUA012L513	19.00	12.00	6.00	5.00	SUA018L505	30.00	18.00	9.00	8.00	SUA027L501	40.00	27.00	11.00	10.00	SUA040L507	48.00	40.00	9.00	8.00
SUA010L503	20.00	10.00	6.00	5.00	SUA019L502	30.00	19.00	8.00	7.00	SUA028L503	40.00	28.00	11.00	10.00	SUA030L510	50.00	30.00	11.00	10.00
SUA012L503	20.00	12.00	5.40	4.40	SUA020L505	30.00	20.00	9.00	8.00	SUA030L504	40.00	30.00	7.00	6.00	SUA034L503	50.00	34.00	13.00	12.00
SUA012L505	20.00	12.00	6.80	5.80	SUA020L503	30.00	20.00	11.00	10.00	SUA030L505	40.00	30.00	8.00	7.00	SUA035L508	50.00	35.00	9.00	8.00
SUA012L509	20.00	12.00	9.00	8.00	SUA022L517	30.00	22.00	6.00	5.00	SUA030L502	40.00	30.00	10.00	9.00	SUA035L503	50.00	35.00	11.00	10.00
SUA012L504	22.00	12.00	8.00	7.30	SUA022L501	32.00	22.00	8.00	7.30	SUA030L503	40.00	30.00	11.00	10.00	SUA035L509	50.00	35.00	12.00	11.00
SUA012L506	22.00	12.00	9.00	8.00	SUA022L504	32.00	22.00	9.00	8.00	SUA032L514	40.00	32.00	6.00	5.00	SUA036L504	50.00	36.00	9.00	8.00
SUA014L503	22.00	14.00	7.00	6.00	SUA024L504	32.00	24.00	6.70	5.70	SUA032L513	40.00	32.00	6.80	5.80	SUA038L512	50.00	38.00	8.50	7.50
SUA016L505	22.00	16.00	5.00	4.00	SUA025L507	33.00	25.00	6.00	5.00	SUA032L501	40.00	32.00	9.00	8.00	SUA040L508	50.00	40.00	6.00	5.00
SUA016L504	22.00	16.00	6.50	5.50	SUA025L505	33.00	25.00	6.80	5.80	SUA031L501	41.50	31.50	7.00	6.00	SUA040L503	50.00	40.00	7.00	6.00
SUA012L510	23.00	12.00	6.75	5.75	SUA025L503	33.00	25.00	9.00	8.00	SUA032L502	42.00	32.00	6.50	5.50	SUA040L505	50.00	40.00	8.00	7.00
SUA012L511	24.00	12.00	7.00	6.00	SUA022L506	35.00	22.00	8.00	7.00	SUA032L507	42.00	32.00	7.00	6.00	SUA040L509	50.00	40.00	9.00	8.00
SUA014L502	24.00	14.00	7.00	6.00	SUA025L514	35.00	25.00	7.00	6.00	SUA032L527	42.00	32.00	9.00	8.00	SUA040L504	50.00	40.00	11.00	10.00
SUA015L505	24.00	15.00	8.00	7.00	SUA025L506	35.00	25.00	8.00	7.00	SUA028L507	43.00	28.00	7.00	6.00	SUA040L510	50.00	40.00	13.00	12.00
SUA016L511	24.00	16.00	6.00	5.00	SUA025L504	35.00	25.00	9.00	8.00	SUA035L511	43.00	35.00	7.00	6.00	SUA042L501	50.00	42.00	6.00	5.00
SUA016L503	24.00	16.00	6.80	5.80	SUA027L505	35.00	25.00	6.00	7.00	SUA035L506	43.00	35.00	9.00	8.00	SUA035L514	52.00	35.00	11.00	10.00
SUA017L501	24.00	17.00	6.00	5.00	SUA028L502	35.50	28.00	6.00	5.00	SUA022L505	45.00	22.00	11.00	10.00	SUA044L503	52.00	44.00	6.50	5.50
SUA018L503	24.00	18.00	10.00	9.00	SUA024L503	36.00	24.00	7.50	6.50	SUA030L509	45.00	30.00	9.00	8.00	SUA045L509	53.00	45.00	10.30	9.30
SUA014L504	25.00	14.00	7.00	6.00	SUA028L508	36.00	28.00	6.40	5.40	SUA0305907	45.00	30.00	10.00	9.00	SUA040L501	55.00	40.00	11.00	10.00
SUA015L501	25.00	15.00	8.00	7.30	SUA028L506	36.00	28.00	9.00	8.00	SUA030L514	45.00	30.00	11.00	10.00	SUA045L503	55.00	45.00	7.00	6.00
SUA015L503	25.00	15.00	11.00	10.00	SUA025L511	38.00	25.00	9.00	8.00	SUA032L506	45.00	32.00	9.00	8.00	SUA045L507	55.00	45.00	8.00	7.00
SUA017L502	25.00	17.00	6.70	5.70	SUA025L508	38.00	25.00	10.00	9.00	SUA032L504	45.00	32.00	11.00	10.00	SUA045L524	55.00	45.00	8.50	7.50
SUA016L502	26.00	16.00	6.00	5.00	SUA025L501	38.00	25.00	11.00	10.00	SUA034L502	45.00	34.00	8.00	7.00	SUA045L501	55.00	45.00	11.00	10.00
SUA018L501	26.00	18.00	6.00	5.00	SUA025L509	38.00	25.00	13.00	12.00	SUA035L502	45.00	35.00	7.00	6.00	SUA045L504	56.00	45.00	8.00	7.30



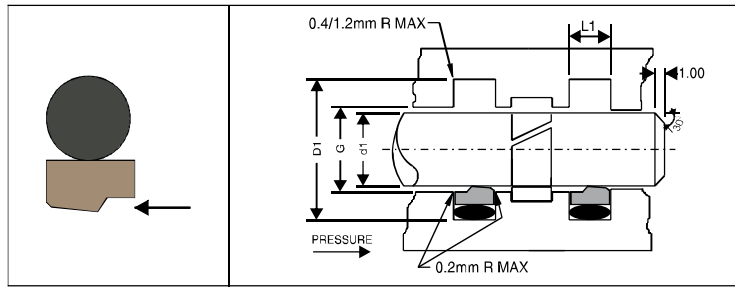
Piston Seals

Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	D1 (H9)	d1 (h9)	L1 +0.2	Seal Ht.
SUA045L510	56.00	45.00	11.00	10.00	SUA056L503	70.00	56.00	9.00	8.00	SUA080L507	100.00	80.00	12.00	11.00	SUA120L502	135.00	120.00	16.00	15.00
SUA042L502	57.00	42.00	9.00	8.00	SUA056L504	70.00	56.00	11.00	10.00	SUA080L505	100.00	80.00	13.00	12.00	SUA115L502	140.00	115.00	16.00	15.00
SUA045L521	57.00	45.00	7.00	6.00	SUA060L506	70.00	60.00	7.00	6.00	SUA080L503	100.00	80.00	14.00	13.00	SUA120L514	140.00	120.00	13.00	12.00
SUA048L504	57.00	48.00	11.00	10.00	SUA060L503	70.00	60.00	8.20	7.20	SUA085L502	100.00	85.00	10.00	9.00	SUA120L501	140.00	120.00	15.50	14.50
SUA040L502	60.00	40.00	11.00	10.00	SUA060L501	70.00	60.00	11.00	10.00	SUA085L503	100.00	85.00	13.00	12.00	SUA125L501	140.00	125.00	10.00	9.00
SUA040L511	60.00	40.00	13.00	12.00	SUA060L511	70.00	60.00	13.00	12.00	SUA090L512	100.00	90.00	7.00	6.00	SUA125L506	140.00	125.00	16.00	15.00
SUA043L501	60.00	43.00	7.00	6.00	SUA063L503	70.00	63.00	6.00	5.00	SUA099L515	100.00	90.00	11.00	10.00	SUA125L507	145.00	125.00	16.00	15.00
SUA045L505	60.00	45.00	11.00	10.00	SUA056L505	71.00	56.00	11.00	10.00	SUA090L503	100.00	90.00	13.00	12.00	SUA125L502	150.00	125.00	14.00	13.00
SUA045L519	60.00	45.00	12.00	11.00	SUA056L501	71.00	56.00	12.50	11.50	SUA076L501	101.60	76.20	13.70	12.70	SUA130L502	150.00	130.00	15.50	14.50
SUA045L506	60.00	45.00	13.00	12.00	SUA062L502	72.00	62.00	9.00	8.00	SUA088L501	101.60	88.90	10.52	9.52	SUA135L503	155.00	135.00	15.50	14.50
SUA050L502	60.00	50.00	7.00	6.00	SUA053L502	73.00	53.00	13.00	12.00	SUA085L504	105.00	85.00	11.00	10.00	SUA140L507	155.00	140.00	10.00	9.00
SUA050L506	60.00	50.00	8.00	7.30	SUA063L504	73.00	63.00	9.00	8.00	SUA085L501	105.00	85.00	12.80	11.80	SUA140L503	155.00	140.00	16.00	15.00
SUA050L508	60.00	50.00	9.00	8.00	SUA063L505	73.00	63.00	11.00	10.00	SUA090L514	105.00	90.00	10.00	9.00	SUA130L503	160.00	130.00	17.00	16.00
SUA050L503	60.00	50.00	11.00	10.00	SUA055L508	75.00	55.00	11.00	10.00	SUA090L504	105.00	90.00	11.00	10.00	SUA135L502	160.00	135.00	16.00	15.00
SUA050L509	60.00	50.00	13.00	12.00	SUA055L501	75.00	55.00	13.00	12.00	SUA090L505	105.00	90.00	13.00	12.00	SUA140L502	160.00	140.00	15.00	14.00
SUA045L511	62.00	45.00	9.50	8.50	SUA060L505	75.00	60.00	12.00	11.00	SUA095L502	105.00	95.00	13.00	12.00	SUA140L501	160.00	140.00	15.50	14.50
SUA050L510	62.00	50.00	9.50	8.50	SUA063L512	75.00	63.00	9.50	8.50	SUA090L506	106.00	90.00	13.00	12.00	SUA140L513	160.00	140.00	16.00	15.00
SUA050L523	62.00	50.00	11.00	10.00	SUA063L506	75.00	63.00	11.00	10.00	SUA090L507	106.00	90.00	15.00	14.00	SUA145L503	160.00	145.00	10.00	9.00
SUA045L512	63.00	45.00	10.00	9.00	SUA065L510	75.00	65.00	7.00	6.00	SUA093L501	108.00	93.00	16.00	15.00	SUA130L504	165.00	130.00	16.00	15.00
SUA045L502	63.00	45.00	11.00	10.00	SUA065L505	75.00	65.00	9.00	8.00	SUA083L501	110.00	83.00	14.00	13.00	SUA145L502	165.00	145.00	17.00	16.00
SUA045L518	63.00	45.00	13.00	12.00	SUA065L501	75.00	65.00	12.40	11.40	SUA090L502	110.00	90.00	13.00	12.00	SUA150L502	170.00	150.00	13.00	12.00
SUA048L501	63.00	48.00	11.00	10.00	SUA065L511	75.00	65.00	13.00	12.00	SUA095L503	110.00	95.00	10.00	9.00	SUA150L503	170.00	150.00	17.00	16.00
SUA050L518	63.00	50.00	7.50	6.50	SUA063L507	78.00	63.00	9.00	8.00	SUA095L506	110.00	95.00	15.00	14.00	SUA155L506	170.00	155.00	11.00	10.00
SUA050L516	63.00	50.00	9.00	8.00	SUA060L508	80.00	60.00	11.00	10.00	SUA090L508	114.00	90.00	14.00	13.00	SUA150L506	180.00	150.00	16.00	15.00
SUA050L517	63.00	50.00	10.00	9.00	SUA060L502	80.00	60.00	13.00	12.00	SUA088L502	115.00	88.00	14.50	13.50	SUA150L504	180.00	150.00	17.00	16.00
SUA050L511	63.00	50.00	11.00	10.00	SUA063L508	80.00	63.00	11.00	10.00	SUA090L509	115.00	90.00	14.00	13.00	SUA160L501	180.00	160.00	16.00	15.00
SUA050L523	63.00	50.00	16.00	15.00	SUA063L509	80.00	63.00	13.00	12.00	SUA090L510	115.00	90.00	16.00	15.00	SUA165L503	190.00	165.00	16.00	15.00
SUA053L505	63.00	53.00	7.00	6.00	SUA065L506	80.00	65.00	10.00	9.00	SUA095L504	115.00	95.00	13.00	12.00	SUA170L504	190.00	170.00	16.00	15.00
SUA053L510	63.00	53.00	7.50	6.50	SUA065L507	80.00	65.00	11.00	10.00	SUA095L505	115.00	95.00	14.00	13.00	SUA165L502	200.00	165.00	21.00	20.00
SUA053L503	63.00	53.00	8.00	7.30	SUA065L503	80.00	65.00	13.00	12.00	SUA100L506	115.00	100.00	10.00	9.00	SUA170L501	200.00	170.00	16.00	15.00
SUA053L504	63.00	53.00	13.50	12.50	SUA070L501	80.00	70.00	7.00	6.00	SUA100L507	115.00	100.00	11.00	10.00	SUA170L502	200.00	170.00	19.00	18.00
SUA035L501	65.00	35.00	16.00	15.00	SUA070L507	80.00	70.00	9.00	8.00	SUA100L509	115.00	100.00	12.60	11.60	SUA175L501	200.00	175.00	16.00	15.00
SUA040L513	65.00	40.00	11.00	10.00	SUA070L525	80.00	70.00	11.00	10.00	SUA100L501	120.00	100.00	12.00	11.00	SUA180L503	200.00	180.00	15.00	14.00
SUA040L506	65.00	40.00	13.00	12.00	SUA070L503	80.00	70.00	13.00	12.00	SUA100L504	120.00	100.00	13.00	12.00	SUA180L502	200.00	180.00	16.00	15.00
SUA045L513	65.00	45.00	11.00	10.00	SUA071L502	80.00	71.00	7.00	6.00	SUA100L510	120.00	100.00	16.00	15.00	SUA180L504	205.00	180.00	16.00	15.00
SUA045L516	65.00	45.00	13.00	12.00	SUA065L502	85.00	65.00	13.00	12.00	SUA100L512	125.00	100.00	12.50	11.50	SUA180L506	210.00	180.00	16.00	15.00
SUA050L512	65.00	50.00	8.00	7.00	SUA070L508	85.00	70.00	13.00	12.00	SUA100L503	125.00	100.00	13.00	12.00	SUA190L501	210.00	190.00	15.50	14.50
SUA050L504	65.00	50.00	11.00	10.00	SUA075L510	85.00	75.00	9.00	8.00	SUA100L511	125.00	100.00	14.00	13.00	SUA200L503	220.00	200.00	13.00	12.00
SUA050L505	65.00	50.00	12.40	11.40	SUA075L503	85.00	75.00	13.00	12.00	SUA100L502	125.00	100.00	16.00	15.00	SUA200L501	220.00	200.00	15.50	14.50
SUA055L512	65.00	55.00	7.00	6.00	SUA065L508	90.00	65.00	13.00	12.00	SUA105L501	125.00	105.00	13.00	12.00	SUA200L505	225.00	200.00	16.00	15.00
SUA055L503	65.00	55.00	9.00	8.00	SUA070L506	90.00	70.00	11.00	10.00	SUA105L502	125.00	105.00	16.00	15.00	SUA200L502	230.00	200.00	18.00	17.00
SUA055L504	65.00	55.00	11.00	10.00	SUA070L502	90.00	70.00	13.00	12.00	SUA110L505	125.00	110.00	10.00	9.00	SUA210L501	240.00	210.00	19.00	18.00
SUA055L502	65.00	55.00	13.00	12.00	SUA075L506	90.00	75.00	13.00	12.00	SUA110L503	125.00	110.00	12.00	11.00	SUA220L501	250.00	220.00	19.00	18.00
SUA050L513	66.00	50.00	11.00	10.00	SUA075L507	90.00	75.00	16.00	15.00	SUA110L504	125.00	110.00	13.00	12.00	SUA225L501	250.00	225.00	19.20	18.20
SUA056L502	66.00	56.00	11.00	10.00	SUA080L502	90.00	80.00	7.00	6.00	SUA110L501	125.00	110.00	16.00	15.00	SUA230L503	250.00	230.00	13.00	12.00
SUA045L514	68.00	45.00	13.00	12.00	SUA080L506	90.00	80.00	12.00	11.00	SUA112L502	125.00	112.00	10.00	9.00	SUA230L502	250.00	230.00	18.00	17.00
SUA055L505	68.00	55.00	11.00	10.00	SUA080L508	90.00	80.00	14.00	13.00	SUA115L501	125.00	115.00	16.00	15.00	SUA240L501	270.00	240.00	18.50	17.50
SUA050L514	70.00	50.00	11.00	10.00	SUA071L503	91.00	71.00	13.00	12.00	SUA100L513	130.00	100.00	16.00	15.00	SUA250L501	280.00	250.00	19.00	18.00
SUA050L501	70.00	50.00	12.00	11.00	SUA075L509	95.00	75.00	13.00	12.00	SUA105L503	130.00	105.00	16.00	15.00	SUA250L502	280.00	250.00	21.00	20.00
SUA050L519	70.00	50.00	13.00	12.00	SUA080L509	95.00	80.00	11.00	10.00	SUA110L509	130.00	110.00	13.00	12.00	SUA270L501	300.00	270.00	20.00	19.00
SUA050L515	70.00	50.00	15.00	14.00	SUA080L511	95.00	80.00	13.00	12.00	SUA110L502	130.00	110.00	16.00	15.00	SUA290L501	320.00	290.00	21.00	20.00
SUA055L506	70.00	55.00	8.00	7.00	SUA075L505	100.00	75.00	16.00	15.00	SUA115L506	130.00	115.00	10.00	9.00					
SUA055L509	70.00	55.00	13.00	12.00	SUA080L518	100.00	80.00	11.00	10.00	SUA115L503	135.00	115.00	16.00	15.00					

Rod Seals

STYLE : RTA

TYPE : Single Acting



MATERIAL :

OUTER O'RING : NT 70. Max Spare NT 70 is a Acrylonitrile Butadine Rubber (NBR) with a shore 'A' hardness of 70⁰/75⁰.

INNER SEAL RING : BFT. Max Spare BFT is Bronze Filled with PTFE compound with Bronze content of 40% (for higher pressure 60% BFT is recommended).

MAX OPERATING CONDITIONS :

Temp. : -30⁰ C to 100⁰ C (upto +220⁰ C on request)

Pressure : 400 BAR

Speed : 10.0 mtr./sec.

DETAILS :

RTA is a single acting rod seal suitable for light to medium duty hydraulic cylinders & suitable for cylinders with small groove dimensions thus enabling a compact gland. The RTA rod seal is a combination of a NBR O'Ring energiser & an inner seal ring made of PTFE added with a filler to increase the resistance of seal ring to high pressure. Generally Bronze is the used filler but also Glass/Graphite Filled PTFE RTA rod seal can be made. The RTA seal can be easily fitted in a single gland and also suitable for two piece gland application. The Bronze filled PTFE inner seal ring when in contact with the piston rod, the PTFE ensures a stick slip free movement & reduces friction to a minimum. Where as the filler increases the strength in the seal ring to prevent it from extruding & to withstand pressures as high as 400 BAR.

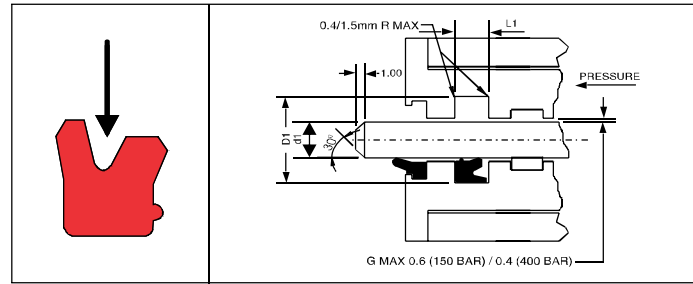
Max Spare Part No.	d1 (h9)	D1 (H9)	L1 (+0.2)	O'Ring Part No.	Max Spare Part No.	d1 (h9)	D1 (H9)	L1 (+0.2)	O'Ring Part No.
RTA 0060801	6.00	10.90	2.20	OR 17800765	RTA 0950801	95.00	110.10	6.30	OR 53310097
RTA 0100801	10.00	14.90	2.20	OR 17800110	RTA 1000801	100.00	115.10	6.30	OR 53310732
RTA 0100802	10.00	17.30	3.20	OR 26201237	RTA 1050801	105.00	120.10	6.30	OR 53311367
RTA 0120801	12.00	16.90	2.20	OR 17801400	RTA 1100801	110.00	125.10	6.30	OR 53311684
RTA 0120802	12.00	19.30	3.20	OR 26201395	RTA 1100802	110.00	130.50	8.10	OR 70011684
RTA 0140802	14.00	21.30	3.20	OR 26201654	RTA 1150801	115.00	130.10	6.30	OR 53312000
RTA 0150802	15.00	22.30	3.20	OR 26201796	RTA 1200801	120.00	135.10	6.30	OR 53312637
RTA 0160801	16.00	20.90	2.20	OR 17801760	RTA 1250801	125.00	140.10	6.30	OR 53313272
RTA 0160802	16.00	23.30	3.20	OR 26201872	RTA 1250802	125.00	145.50	8.10	OR 70012954
RTA 0180802	18.00	25.30	3.20	OR 26202063	RTA 1300801	130.00	145.10	6.30	OR 53313589
RTA 0200801	20.00	27.30	3.20	OR 26202222	RTA 1300802	130.00	150.50	8.10	OR 70013900
RTA 0200802	20.00	30.70	4.20	OR 35302340	RTA 1350801	135.00	150.10	6.30	OR 53314224
RTA 0220801	22.00	29.30	3.20	OR 26202500	RTA 1400801	140.00	155.10	6.30	OR 53314542
RTA 0220802	22.00	32.70	4.20	OR 35302657	RTA 1400802	140.00	160.50	8.10	OR 70014859
RTA 0250801	25.00	32.30	3.20	OR 26202824	RTA 1450801	145.00	160.10	6.30	OR 53315177
RTA 0250802	25.00	35.70	4.20	OR 35302974	RTA 1500801	150.00	165.10	6.30	OR 53315812
RTA 0280801	28.00	35.30	3.20	OR 26203142	RTA 1550801	155.00	170.10	6.30	OR 53315812
RTA 0280802	28.00	38.70	4.20	OR 35303292	RTA 1600801	160.00	175.10	6.30	OR 53316447
RTA 0300802	30.00	40.70	4.20	OR 35303452	RTA 1600802	160.00	180.50	8.10	OR 70017082
RTA 0320801	32.00	39.30	3.20	OR 26203459	RTA 1657001	165.00	180.10	6.30	OR 53317082
RTA 0320802	32.00	42.70	4.20	OR 35303609	RTA 1700801	170.00	185.10	6.30	OR 53317717
RTA 0350802	35.00	42.30	3.20	OR 26203777	RTA 1800801	180.00	195.10	6.30	OR 53318352
RTA 0350801	35.00	45.70	4.20	OR 35303970	RTA 1800802	180.00	200.50	8.10	OR 70018987
RTA 0360801	36.00	43.30	3.20	OR 26203934	RTA 1850801	185.00	200.10	6.30	OR 53318987
RTA 0360802	36.00	46.70	4.20	OR 35304128	RTA 1900801	190.00	205.10	6.30	OR 53319622
RTA 0380801	38.00	48.70	4.20	OR 35304286	RTA 1950802	195.00	210.10	6.30	OR 53320257
RTA 0400801	40.00	50.70	4.20	OR 35304400	RTA 2000801	200.00	220.50	8.10	OR 69921024
RTA 0400802	40.00	55.10	6.30	OR 53304548	RTA 2100801	210.00	230.50	8.10	OR 69921527
RTA 0450801	45.00	55.70	4.20	OR 35305039	RTA 2200801	220.00	240.50	8.10	OR 70022797
RTA 0450802	45.00	60.10	6.30	OR 53305017	RTA 2300801	230.00	250.50	8.10	OR 69924067
RTA 0500801	50.00	60.70	4.20	OR 35305400	RTA 2400801	240.00	260.50	8.10	OR 70024700
RTA 0500802	50.00	65.10	6.30	OR 53305652	RTA 2500801	250.00	270.50	8.10	OR 69925607
RTA 0550801	55.00	65.70	4.20	OR 35305900	RTA 2600801	260.00	284.00	8.10	OR 69926607
RTA 0550802	55.00	70.10	6.30	OR 53306150	RTA 2700801	270.00	294.00	8.10	OR 69927877
RTA 0560801	56.00	66.70	4.20	OR 35306124	RTA 2800801	280.00	304.00	8.10	OR 69929147
RTA 0560802	56.00	71.10	6.30	OR 53306250	RTA 2900801	290.00	314.00	8.10	OR 69930417
RTA 0600801	60.00	70.70	4.20	OR 35306500	RTA 3000801	300.00	324.00	8.10	OR 69931687
RTA 0600802	60.00	75.10	6.30	OR 53306604	RTA 3100801	310.00	334.00	8.10	OR 69932500
RTA 0630801	63.00	78.10	6.30	OR 53306922	RTA 3200801	320.00	344.00	8.10	OR 69932957
RTA 0650801	65.00	80.10	6.30	OR 53307239	RTA 3300802	330.00	354.00	8.10	OR 69934227
RTA 0700801	70.00	85.10	6.30	OR 53307557	RTA 3500801	350.00	374.00	8.10	OR 69936767
RTA 0750801	75.00	90.10	6.30	OR 53308192	RTA 3600801	360.00	384.00	8.10	OR 69936767
RTA 0800801	80.00	95.10	6.30	OR 53308509	RTA 4500801	450.00	474.00	8.10	OR 69946876
RTA 0850801	85.00	100.10	6.30	OR 53309144	RTA 5000801	500.00	524.00	8.10	OR 69950686
RTA 0900801	90.00	105.10	6.30	OR 53309462	RTA 6000801	600.00	624.00	8.10	OR 69960808

Bold sizes are available with FKM (Viton®) O-Ring.

Rod Seals

STYLE : RUB

TYPE : Single Acting



MATERIAL :

PUX - is a Polyester based Polyurethane compound of shore 'A' 92°.

MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C

Pressure : 300 BAR

Speed : 0.5 mtr./sec.

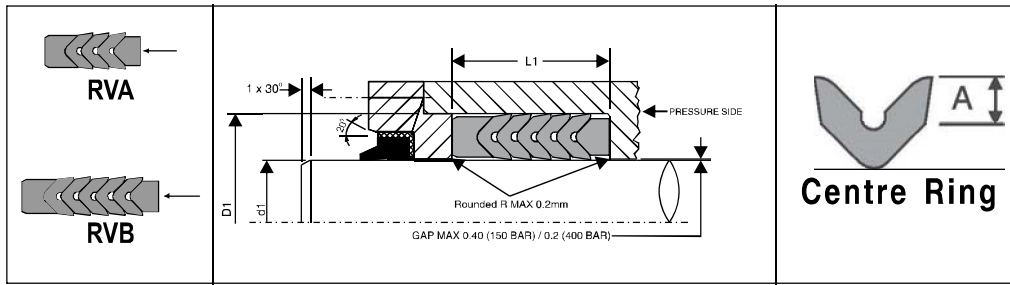
DETAILS :

Max Spare style RUB seal is a flexible seal suited for sealing piston rod. The additional O'Ring profile at the bottom provides as a back-up to the main sealing lip, providing lubrication, abrasion resistance & remains unaffected with varying pressures available in nitrile (NBR) upto 160 BAR besides polyurethane for 300 BAR. Due to excellent wear resistance properties of polyurethane the life expected is 3 times that of NBR.

Max Spare Part No. Polyurethane	d1 (h9)	D1 (H9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	d1 (h9)	D1 (H9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	d1 (h9)	D1 (H9)	L1 +0.2	Seal Ht.	Max Spare Part No. Polyurethane	d1 (h9)	D1 (H9)	L1 +0.2	Seal Ht.
RUB006L501	6.00	14.00	6.50	5.50	RUB028L501	28.00	38.00	8.00	7.30	RUB050L505	50.00	65.00	12.40	11.40	RUB095L501	95.00	115.00	13.00	12.00
RUB008L502	8.00	16.00	6.70	5.70	RUB030L503	30.00	38.00	9.00	8.00	RUB055L506	55.00	65.00	8.00	7.30	RUB100L505	100.00	115.00	11.00	10.00
RUB010L501	10.00	18.00	6.50	5.50	RUB030L504	30.00	40.00	7.50	6.50	RUB055L501	55.00	68.00	11.00	10.00	RUB100L501	100.00	115.00	13.00	12.00
RUB012L505	12.00	20.00	6.70	5.70	RUB030L501	30.00	40.00	8.00	7.30	RUB055L503	55.00	70.00	12.80	11.80	RUB100L504	100.00	120.00	13.00	12.00
RUB012L503	12.00	22.00	8.00	7.30	RUB030L505	30.00	40.00	9.00	8.00	RUB056L504	56.00	66.00	8.00	7.00	RUB100L503	100.00	120.00	15.50	14.50
RUB014L502	14.00	21.00	6.00	5.00	RUB030L502	30.00	40.00	11.00	10.00	RUB056L502	56.00	66.00	11.00	10.00	RUB105L501	105.00	120.00	10.00	9.00
RUB014L501	14.00	24.00	8.00	7.30	RUB030L509	30.00	45.00	11.00	10.00	RUB056L503	56.00	71.00	11.00	10.00	RUB110L505	110.00	125.00	10.60	9.60
RUB016L501	16.00	22.00	5.50	4.50	RUB032L513	32.00	40.00	6.70	5.70	RUB056L501	56.00	71.00	12.50	11.50	RUB110L504	110.00	125.00	12.40	11.40
RUB016L503	16.00	23.00	6.00	5.00	RUB032L504	32.00	42.00	6.70	5.70	RUB060L501	60.00	70.00	8.00	7.30	RUB110L508	110.00	130.00	13.00	12.00
RUB016L502	16.00	24.00	6.70	5.70	RUB032L502	32.00	42.00	8.00	7.30	RUB060L506	60.00	70.00	11.00	10.00	RUB110L502	110.00	130.00	15.50	14.50
RUB016L504	16.00	26.00	8.00	7.30	RUB032L501	32.00	42.00	11.00	10.00	RUB060L502	60.00	70.00	12.80	11.80	RUB115L501	115.00	130.00	11.00	10.00
RUB018L502	18.00	24.00	5.80	4.80	RUB032L503	32.00	47.00	11.00	10.00	RUB060L508	60.00	75.00	12.80	11.80	RUB120L502	120.00	140.00	15.50	14.50
RUB018L508	18.00	25.00	6.00	5.00	RUB035L502	35.00	45.00	8.00	7.30	RUB063L506	63.00	70.00	13.00	12.00	RUB125L501	125.00	145.00	15.50	14.50
RUB018L506	18.00	26.00	6.70	5.70	RUB035L506	35.00	45.00	11.00	10.00	RUB063L505	63.00	73.00	13.00	12.00	RUB125L502	125.00	150.00	14.00	13.00
RUB018L510	18.00	28.00	8.00	7.30	RUB035L503	35.00	46.00	8.00	7.30	RUB063L502	63.00	75.00	12.80	11.80	RUB130L502	130.00	150.00	15.50	14.50
RUB018L503	18.00	28.00	9.00	8.00	RUB035L507	35.00	50.00	11.00	10.00	RUB063L504	63.00	78.00	12.40	11.40	RUB135L503	135.00	143.00	13.50	12.50
RUB019L503	19.00	25.00	7.00	6.00	RUB036L508	36.00	44.00	6.70	5.70	RUB065L504	65.00	80.00	10.00	9.00	RUB135L502	135.00	150.00	12.40	11.40
RUB019L502	19.00	30.00	8.00	7.00	RUB036L506	36.00	44.00	7.30	6.30	RUB065L503	65.00	85.00	13.00	12.00	RUB140L503	140.00	150.00	7.00	6.00
RUB020L502	20.00	28.00	6.70	5.70	RUB036L502	36.00	46.00	8.00	7.30	RUB070L510	70.00	80.00	8.00	7.30	RUB140L504	140.00	155.00	14.00	13.00
RUB020L506	20.00	28.00	7.30	6.30	RUB036L512	36.00	46.00	11.00	10.00	RUB070L504	70.00	80.00	13.00	12.00	RUB140L502	140.00	160.00	15.50	14.50
RUB020L504	20.00	30.00	6.70	5.70	RUB040L503	40.00	48.00	6.70	5.70	RUB070L511	70.00	85.00	11.00	10.00	RUB145L503	145.00	153.00	12.50	11.50
RUB020L503	20.00	30.00	8.00	7.30	RUB040L501	40.00	50.00	8.00	7.30	RUB070L502	70.00	85.00	12.40	11.40	RUB150L501	150.00	170.00	15.50	14.50
RUB020L507	20.00	30.00	11.00	10.00	RUB040L502	40.00	50.00	11.00	10.00	RUB075L503	75.00	83.00	12.50	11.50	RUB160L501	160.00	180.00	15.50	14.50
RUB022L502	22.00	29.00	6.00	5.00	RUB040L506	40.00	55.00	12.30	11.30	RUB075L501	75.00	85.00	13.00	12.00	RUB165L501	165.00	190.00	16.00	15.00
RUB022L501	22.00	30.00	6.70	5.70	RUB042L501	42.00	50.00	9.00	8.00	RUB075L504	75.00	90.00	13.00	12.00	RUB170L501	170.00	190.00	15.50	14.50
RUB022L504	22.00	32.00	8.00	7.30	RUB045L509	45.00	53.00	6.70	5.70	RUB080L505	80.00	90.00	13.00	12.00	RUB170L502	170.00	200.00	16.00	15.00
RUB025L505	25.00	33.00	6.70	5.70	RUB045L510	45.00	53.00	9.00	8.00	RUB080L502	80.00	95.00	12.70	11.70	RUB180L503	180.00	200.00	15.50	14.50
RUB025L515	25.00	33.00	7.00	6.00	RUB045L504	45.00	55.00	8.00	7.30	RUB080L501	80.00	100.00	13.00	12.00	RUB180L502	180.00	205.00	16.00	15.00
RUB025L506	25.00	33.00	8.00	7.30	RUB045L518	45.00	55.00	9.00	8.00	RUB080L503	80.00	100.00	16.00	15.00	RUB200L501	200.00	220.00	15.50	14.50
RUB025L501	25.00	35.00	6.70	5.70	RUB045L501	45.00	55.00	11.00	10.00	RUB085L501	85.00	100.00	12.80	11.80	RUB200L502	200.00	225.00	17.00	16.00
RUB025L502	25.00	35.00	8.00	7.30	RUB045L508	45.00	55.00	12.50	11.50	RUB085L503	85.00	105.00	13.00	12.00	RUB220L501	220.00	250.00	24.00	23.00
RUB025L504	25.00	35.00	9.00	8.00	RUB045L506	45.00	60.00	12.40	11.40	RUB090L505	90.00	100.00	12.50	11.50	RUB250L501	250.00	280.00	24.00	23.00
RUB025L507	25.00	35.00	11.00	10.00	RUB050L504	50.00	58.00	12.50	11.50	RUB090L509	90.00	105.00	10.00	9.00					
RUB026L501	26.00	33.00	9.00	8.00	RUB050L501	50.00	60.00	8.00	7.30	RUB090L503	90.00	105.00	12.50	11.50					
RUB028L517	28.00	36.00	7.00	6.00	RUB050L503	50.00	60.00	11.00	10.00	RUB090L502	90.00	110.00	13.00	12.00					
RUB028L503	28.00	36.00	8.00	7.30	RUB050L502	50.00	65.00	11.00	10.00	RUB095L502	95.00	110.00	13.00	12.00					

Rod Seals

STYLE : RVA & RVB TYPE : Single Acting Split Housing



MATERIAL :

Fabric Reinforced Acrylonitrile Butadiene Rubber (NBR).

MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C

Pressure : 400 BAR

Speed : 0.5 mtr./sec.

DETAILS :

The Max Spare style RVA seal is a robust seal. Though it is suitable for split piston it is extremely suitable for medium duty to heavy duty application. The RVA seal accepts low & high pressure, vigorous conditions & also for any misalignment between sealing gaps.

The seal is combination of a bottom seal, centre ring & pressure ring. The centre ring is the main seal being flexible enough to retain high & low pressures. Whereas the bottom seal support the centre ring from getting extruded against high pressures. The top ring helps in retaining the centre ring profile & distributing pressure equally. In may cases the RVB seals can be also be split to enable easy fitment.

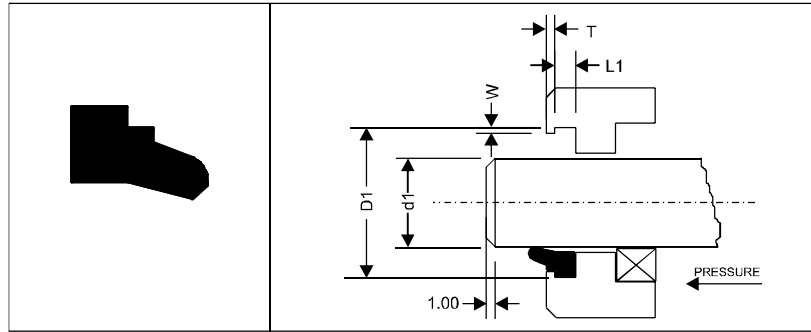
IMPORTANT NOTE :

The Vee Packing height can be adjusted by increasing or reducing centre rings. The calculation can be done by noting height "A" as shown in table.

Max Spare Part No.		d1 (f9)	D1 (H11)	RVA	RVB	Centre Ht. A	Max Spare Part No.		d1 (f9)	D1 (H11)	RVA	RVB	Centre Ht. A
RVA	RVB			L1 +0.2 (1+3+1)	L1 +0.2 (1+5+1)		RVA	RVB			L1 +0.2 (1+3+1)	L1 +0.2 (1+5+1)	
RVA0188303	RVB0188303	18.00	28.00	19.86	26.50	3.31	RVA0888304	RVB0888304	88.90	114.30	35.28	47.08	5.88
RVA0208306	RVB0208306	20.00	32.00	16.86	22.50	2.81	RVA0908305	RVB0908305	90.00	110.00	24.72	33.00	4.12
RVA0228301	RVB0228301	22.00	38.00	25.98	34.66	4.33	RVA0908302	RVB0908306	90.00	115.00	27.36	36.53	4.56
RVA0258306	RVB0258306	25.00	40.00	25.50	34.00	4.25	RVA0908307	RVB0908308	90.00	105.00	16.86	22.50	2.81
RVA0288301	RVB0288301	28.00	40.00	16.98	22.66	2.83	RVA0908310	RVB0908312	90.00	110.00	30.00	40.00	5.00
RVA0288302	RVB0288309	28.00	43.00	22.50	30.00	3.75	RVA0958303	RVB0958302	95.00	120.00	40.50	54.00	6.75
RVA0308304	RVB0308301	30.00	40.00	21.78	29.06	3.63	RVA0958906	RVB0958307	95.00	115.00	30.00	40.00	5.00
RVA0308302	RVB0308303	30.00	45.00	22.20	29.60	3.70	RVA1008307	RVB1008307	100.00	125.00	38.58	51.50	6.43
RVA0308303	RVB0308304	30.00	50.00	29.34	39.15	4.89	RVA1008324	RVB1008308	100.00	115.00	22.50	30.00	3.75
RVA0318301	RVB0318301	31.75	44.45	19.02	25.39	3.17	RVA1008325	RVB1008309	100.00	120.00	30.00	40.00	5.00
RVA0348302	RVB0348302	34.90	50.80	24.18	32.27	4.03	RVA1018301	RVB1018301	101.60	127.00	32.10	42.85	5.35
RVA0358305	RVB0358303	35.00	50.00	24.72	33.00	4.12	RVA1108301	RVB1108301	110.00	130.00	30.00	40.00	5.00
RVA0358322	RVB0358317	35.00	47.00	17.10	22.80	2.85	RVA1108304	RVB1108304	110.00	135.00	41.46	55.32	6.91
RVA0368303	RVB0368303	36.00	50.00	22.08	29.50	3.68	RVA1108305	RVB1108305	110.00	135.00	42.72	57.00	7.12
RVA0368305	RVB0368305	36.00	48.00	16.86	22.50	2.81	RVA1108313	RVB1108315	110.00	125.00	22.50	30.00	3.75
RVA0388302	RVB0388302	38.10	50.80	19.44	25.93	3.24	RVA1108322	RVB1108323	110.00	140.00	45.00	60.00	7.50
RVA0408303	RVB0408302	40.00	55.00	22.62	30.16	3.77	RVA1158301	RVB1158301	115.00	140.00	37.08	49.48	6.18
RVA0408304	RVB0408304	40.00	56.00	17.52	23.43	2.92	RVA1208304	RVB1208304	120.00	145.00	36.36	48.50	6.06
RVA0408305	RVB0408305	40.00	60.00	30.00	40.00	5.00	RVA1208305	RVB1208309	120.00	150.00	38.22	51.00	6.37
RVA0408323	RVB0408308	40.00	52.00	16.86	22.50	2.81	RVA1258303	RVB1258303	125.00	150.00	27.36	36.52	4.56
RVA0458301	RVB0458302	45.00	60.00	22.26	29.70	3.71	RVA1258304	RVB1258305	125.00	140.00	22.68	30.25	3.78
RVA0488306	RVB0488303	48.00	63.00	28.50	38.00	4.75	RVA1258323	RVB1258311	125.00	145.00	33.72	45.00	5.62
RVA0508309	RVB0508308	50.80	69.80	33.48	44.66	5.58	RVA1278301	RVB1278301	127.00	152.40	38.58	51.49	6.43
RVA0508311	RVB0508310	50.00	70.00	33.72	45.00	5.62	RVA1308302	RVB1308302	130.00	155.00	39.96	53.32	6.66
RVA0508306	RVB0508319	50.00	65.00	25.20	33.60	4.20	RVA1308303	RVB1308303	130.00	160.00	43.50	58.00	7.25
RVA0538303	RVB0538303	53.97	69.85	25.26	33.69	4.21	RVA1308301	RVB1308304	130.00	150.00	30.00	40.00	5.00
RVA0558304	RVB0558304	55.00	75.00	38.46	51.32	6.41	RVA1358303	RVB1358307	135.00	160.00	42.00	56.00	7.00
RVA0568302	RVB0568302	56.00	76.00	33.30	44.40	5.55	RVA1408303	RVB1408303	140.00	170.00	32.94	43.95	5.49
RVA5608304	RVB0608304	60.00	80.00	31.56	42.15	5.26	RVA1408304	RVB1408304	140.00	160.00	30.00	40.00	5.00
RVA0638309	RVB0638308	63.00	80.00	27.00	36.00	4.50	RVA1408315	RVB1408305	140.00	155.00	25.50	34.00	4.25
RVA0638336	RVB0638327	63.00	78.00	24.00	32.00	4.00	RVA1458301	RVB1458301	145.00	170.00	38.10	50.80	6.35
RVA0658304	RVB0658302	65.00	80.00	25.98	34.66	4.33	RVA1508304	RVB1508303	150.00	180.00	43.50	58.00	7.25
RVA0658302	RVB0658303	65.00	85.00	28.98	38.66	4.83	RVA1528301	RVB1528301	152.40	177.80	33.30	44.44	5.55
RVA0708306	RVB0708305	70.00	90.00	27.00	36.00	4.50	RVA1608301	RVB1608301	160.00	180.00	30.00	40.00	5.00
RVA0708321	RVB0708307	70.00	85.00	16.86	22.50	2.81	RVA1608302	RVB1608302	160.00	190.00	32.94	43.95	5.49
RVA0758302	RVB0758301	75.00	95.00	30.00	40.00	5.00	RVA1708303	RVB1708303	170.00	200.00	49.08	65.50	8.18
RVA0758304	RVB0758304	75.00	100.00	30.00	40.00	5.00	RVA1718306	RVB1718302	171.45	203.20	30.00	40.00	5.00
RVA0808301	RVB0808301	80.00	100.00	30.00	40.00	5.00	RVA1808303	RVB1808303	180.00	210.00	45.72	61.00	7.62
RVA0808302	RVB0808302	80.00	95.00	17.46	23.29	2.91	RVA1808308	RVB1808304	180.00	200.00	30.00	40.00	5.00
RVA0838301	RVB0828310	82.55	101.60	28.92	38.61	4.82	RVA2008304	RVB2008303	200.00	230.00	33.72	45.00	5.62
RVA0858302	RVB0858303	85.00	105.00	30.00	40.00	5.00	RVA2508303	RVB2508303	250.00	280.00	60.36	80.50	10.06

STYLE : WRB

TYPE : Medium Duty



MATERIAL :

NT 85 is an Acrylonitrile Butadiene Rubber (NBR) Compound of Hardness Shore "A" 88^o approximately.

MAX OPERATING CONDITIONS :

Temp. : -30^o C to 100^o C

Speed : 0.5 mtr./sec.

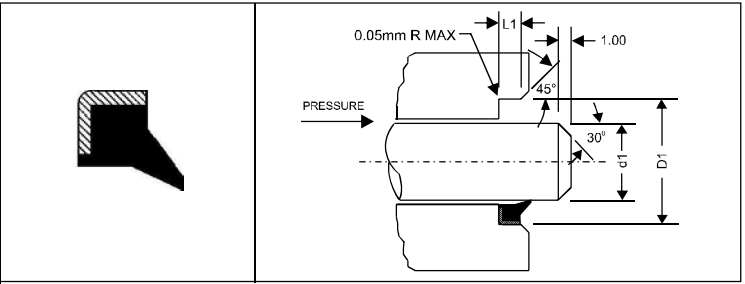
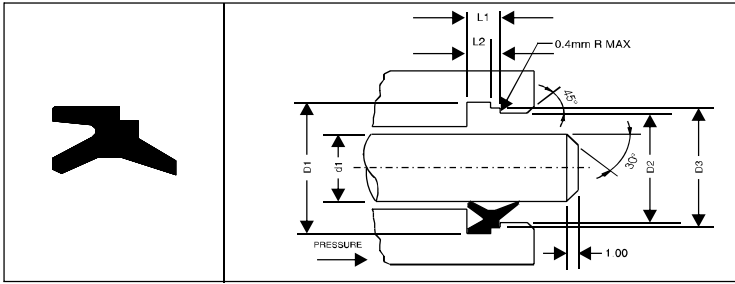
DETAILS :

The Max Spare type WRB wiper has a lip designed to remove dirt, mud, dust, moisture, etc. accumulating on the rod. The wiper is manufactured from a high hardness NBR compound suitable for installing in a groove housing. To prevent dirt passing the outside of wiper and to reduce the pumping action, the outside diameter has an interference fit with the housing.

Max Spare Part No. Nitrile	d1 (f8)	D1 (H9)	L1 ±0.15	Seal Ht.	T ±0.2	W ±0.10	Max Spare Part No. Nitrile	d1 (f8)	D1 (H9)	L1 ±0.15	Seal Ht.	T ±0.2	W ±0.10
WRB 0161101	16.00	24.00	4.00	7.00	1.00	1.00	WRB 0951101	95.00	103.00	4.00	7.00	1.00	1.00
WRB 0181102	18.00	26.00	4.00	7.00	1.00	1.00	WRB 1001101	100.00	108.00	4.00	7.00	1.00	1.00
WRB 0201101	20.00	28.00	4.00	7.00	1.00	1.00	WRB 1051101	105.00	117.00	5.50	10.00	1.50	1.50
WRB 0221101	22.00	30.00	4.00	7.00	1.00	1.00	WRB 1101103	110.00	117.00	8.20	11.00	1.50	1.50
WRB 0251101	25.00	33.00	4.00	7.00	1.00	1.00	WRB 1101101	110.00	118.00	4.00	7.00	1.00	1.00
WRB 0281101	28.00	36.00	4.00	7.00	1.00	1.00	WRB 1101102	110.00	122.00	5.50	10.00	1.50	1.50
WRB 0301101	30.00	38.00	4.00	7.00	1.00	1.00	WRB 1151101	115.00	127.00	5.50	10.00	1.50	1.50
WRB 0321101	32.00	40.00	4.00	7.00	1.00	1.00	WRB 1201101	120.00	132.00	5.50	10.00	1.50	1.50
WRB 0351101	35.00	43.00	4.00	7.00	1.00	1.00	WRB 1251101	125.00	137.00	5.50	10.00	1.50	1.50
WRB 0361101	36.00	44.00	4.00	7.00	1.00	1.00	WRB 1301101	130.00	142.00	5.50	10.00	1.50	1.50
WRB 0381101	38.00	46.00	4.00	7.00	1.00	1.00	WRB 1351101	135.00	147.00	5.50	10.00	1.50	1.50
WRB 0401101	40.00	48.00	4.00	7.00	1.00	1.00	WRB 1401101	140.00	152.00	5.50	10.00	1.50	1.50
WRB 0421101	42.00	50.00	4.00	7.00	1.00	1.00	WRB 1501101	150.00	162.00	5.50	10.00	1.50	1.50
WRB 0451102	45.00	53.00	4.00	7.00	1.00	1.00	WRB 1601101	160.00	172.00	5.50	10.00	1.50	1.50
WRB 0451101	45.00	57.00	5.50	10.00	1.50	1.50	WRB 1701101	170.00	182.00	5.50	10.00	1.50	1.50
WRB 0501101	50.00	58.00	4.00	7.00	1.00	1.00	WRB 1801101	180.00	192.00	5.50	10.00	1.50	1.50
WRB 0551101	55.00	63.00	4.00	7.00	1.00	1.00	WRB 1901101	190.00	202.00	5.50	10.00	1.50	1.50
WRB 0561101	56.00	64.00	4.00	7.00	1.00	1.00	WRB 2001101	200.00	212.00	5.50	10.00	1.50	1.50
WRB 0601101	60.00	68.00	4.00	7.00	1.00	1.00	WRB 2101102	210.00	225.00	6.50	13.00	2.00	2.00
WRB 0631101	63.00	71.00	4.00	7.00	1.00	1.00	WRB 2201101	220.00	235.00	6.50	13.00	2.00	2.00
WRB 0651101	65.00	73.00	4.00	7.00	1.00	1.00	WRB 2301101	230.00	245.00	6.50	13.00	2.00	2.00
WRB 0701102	70.00	78.00	4.00	7.00	1.00	1.00	WRB 2401101	240.00	255.00	6.50	13.00	2.00	2.00
WRB 0751101	75.00	83.00	4.00	7.00	1.00	1.00	WRB 2501101	250.00	265.00	6.50	13.00	2.00	2.00
WRB 0801102	80.00	88.00	4.00	7.00	1.00	1.00	WRB 2601101	260.00	275.00	6.50	13.00	2.00	2.00
WRB 0851101	85.00	93.00	4.00	7.00	1.00	1.00	WRB 3001101	300.00	315.00	6.50	13.00	2.00	2.00
WRB 0901101	90.00	98.00	4.00	7.00	1.00	1.00	WRB 4001101	400.00	415.00	6.50	13.00	2.00	2.00

STYLE : WDD TYPE : Medium Duty

STYLE : WCA TYPE : Heavy Duty



MATERIAL :
NT 85 is an Acrylonitrile Butadiene Rubber (NBR) Compound of Hardness Shore "A" 88^o approx.

MAX OPERATING CONDITIONS :

Temp. : -30^o C to 100^o C
Speed : 0.5 mtr./sec.

DETAILS :

The Max Spare style WDD wiper is a double function seal. The wiper is designed to exclude dirt and moisture from entering the cylinder and to collect traces of fluid passing the rod seal. Opposite the wiper lip are two sealing lips to collect fluid passing the rod seal. Providing a simple groove design and dual function, the type WDD wiper offers excellent scraping action, even with high accumulating dirt, dust and moisture conditions.

MATERIAL :
NT 85 is an Acrylonitrile Butadiene Rubber (NBR) Compound of Hardness Shore "A" 88^o approx.

MAX OPERATING CONDITIONS :

Temp. : -30^o C to 100^o C
Speed : 0.5 mtr./sec.

DETAILS :

The Max Spare style WCA wiper is designed to be press fitted in the housing and is suitable for heavy duty application. A corrosion resistant metal ring houses a NBR wiping element. The proportion of the wiping lip allows it to follow the side movement on the rod and to clear away heavily deposited dirt.

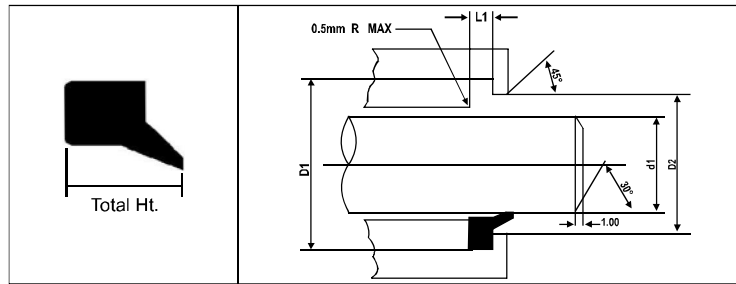
Max Spare Part No. Nitrile	d1 (f8)	D1 (H10)	L1 +0.2	L2 +0.2	D2 (H11)	D3 (JS10)	Seal Thk.
WDD 0101101	10.00	18.00	6.00	4.00	13.50	16.00	8.00
WDD 0121101	12.00	20.00	6.00	4.00	15.50	18.00	8.00
WDD 0141104	14.00	22.00	6.00	4.00	17.50	20.00	8.00
WDD 0151101	15.00	23.00	6.00	4.00	18.50	21.00	8.00
WDD 0161101	16.00	24.00	6.00	4.00	19.50	22.00	8.00
WDD 0181101	18.00	26.00	6.00	4.00	21.50	24.00	8.00
WDD 0201101	20.00	28.00	6.00	4.00	23.50	26.00	8.00
WDD 0221101	22.00	30.00	6.00	4.00	25.50	28.00	8.00
WDD 0251101	25.00	33.00	6.00	4.00	28.50	31.00	8.00
WDD 0281101	28.00	36.00	6.00	4.00	31.50	34.00	8.00
WDD 0301101	30.00	38.00	6.00	4.00	33.50	36.00	8.00
WDD 0321101	32.00	40.00	6.00	4.00	35.50	38.00	6.00
WDD 0351101	35.00	43.00	6.00	4.00	38.50	41.00	8.00
WDD 0361101	36.00	44.00	6.00	4.00	39.50	42.00	8.00
WDD 0381101	38.00	46.00	6.00	4.00	41.50	44.00	8.00
WDD 0401101	40.00	48.00	6.00	4.00	43.50	46.00	8.00
WDD 0421101	42.00	50.00	6.00	4.00	45.50	48.00	8.00
WDD 0451101	45.00	53.00	6.00	4.00	48.50	51.00	8.00
WDD 0501101	50.00	58.00	6.00	4.00	53.50	56.00	8.00
WDD 0551101	55.00	63.00	6.00	4.00	58.50	61.00	8.00
WDD 0561101	56.00	64.00	6.00	4.00	59.50	62.00	8.00
WDD 0601101	60.00	68.00	6.00	4.00	63.50	66.00	8.00
WDD 0631101	63.00	71.00	6.00	4.00	66.50	69.00	8.00
WDD 0651101	65.00	73.00	6.00	4.00	68.50	71.00	8.00
WDD 0701101	70.00	78.00	6.00	4.00	73.50	76.00	8.00
WDD 0751101	75.00	83.00	6.00	4.00	78.50	81.00	8.00
WDD 0801101	80.00	88.00	6.00	4.00	83.50	86.00	8.00
WDD 0851101	85.00	93.00	6.00	4.00	88.50	91.00	8.00
WDD 0901101	90.00	98.00	6.00	4.00	93.50	96.00	8.00
WDD 0951101	95.00	103.00	6.00	4.00	98.50	101.00	8.00
WDD 1001101	100.00	108.00	6.00	4.00	103.50	106.00	8.00
WDD 1051101	105.00	117.00	8.20	5.50	110.00	114.00	11.00
WDD 1101101	110.00	122.00	8.20	5.50	115.00	119.00	11.00
WDD 1151101	115.00	127.00	8.20	5.50	120.00	124.00	11.00
WDD 1201101	120.00	132.00	8.20	5.50	125.00	129.00	11.00
WDD 1251101	125.00	137.00	8.20	5.50	130.00	134.00	11.00
WDD 1301101	130.00	142.00	8.20	5.50	135.00	139.00	11.00
WDD 1351101	135.00	147.00	8.20	5.50	140.00	144.00	11.00
WDD 1401101	140.00	152.00	8.20	5.50	145.00	149.00	11.00
WDD 1501101	150.00	162.00	8.20	5.50	155.00	159.00	11.00
WDD 1601101	160.00	172.00	8.20	5.50	165.00	169.00	11.00
WDD 1701101	170.00	182.00	8.20	5.50	175.00	179.00	11.00
WDD 1801101	180.00	192.00	8.20	5.50	185.00	189.00	11.00
WDD 1901101	190.00	202.00	8.20	5.50	195.00	199.00	11.00
WDD 2001101	200.00	212.00	8.20	5.50	205.00	209.00	11.00
WDD 2201101	220.00	235.00	9.50	6.70	227.00	232.60	13.00

Max Spare Part No. Nitrile	d1 (f8)	D1 (H8)	L1 +0.1	Seal Ht.
WCA 0101101	10.00	16.00	3.00	4.50
WCA 0121101	12.00	18.00	3.50	5.00
WCA 0121102	12.00	20.00	4.00	6.00
WCA 0141101	14.00	22.00	3.00	4.00
WCA 0161101	16.00	22.00	3.00	4.00
WCA 0161103	16.00	26.00	5.00	8.00
WCA 0181102	18.00	28.00	7.00	10.00
WCA 0190801	19.05	28.00	5.00	8.00
WCA 0201103	20.00	28.00	5.00	8.00
WCA 0201105	20.00	30.00	7.00	10.00
WCA 0221101	22.00	28.00	5.00	8.00
WCA 0221102	22.00	32.00	7.00	10.00
WCA 0251102	25.00	35.00	5.00	7.00
WCA 0251101	25.00	35.00	7.00	10.00
WCA 0250801	25.40	36.00	5.00	8.00
WCA 0301102	30.00	40.00	5.00	8.00
WCA 0301101	30.00	40.00	7.00	10.00
WCA 0321104	32.00	45.00	7.00	10.00
WCA 0351102	35.00	45.00	7.00	10.00
WCA 0361101	36.00	45.00	7.00	10.00
WCA 0361106	36.00	48.00	5.00	8.00
WCA 0401102	40.00	50.00	5.00	8.00
WCA 0401103	40.00	50.00	7.00	10.00
WCA 0451101	45.00	55.00	7.00	10.00
WCA 0451103	45.00	60.00	7.00	10.00
WCA 0501103	50.00	60.00	7.00	10.00
WCA 0551102	55.00	65.00	7.00	10.00
WCA 0561102	56.00	66.00	7.00	10.00
WCA 0601102	60.00	70.00	7.00	10.00
WCA 0631105	63.00	73.00	7.00	10.00
WCA 0631101	63.00	75.00	7.00	10.00
WCA 0651101	65.00	75.00	7.00	10.00
WCA 0701101	70.00	80.00	7.00	10.00
WCA 0751101	75.00	85.00	7.00	10.00
WCA 0801101	80.00	90.00	7.00	10.00
WCA 0851101	85.00	95.00	7.00	10.00
WCA 0901101	90.00	100.00	7.00	10.00
WCA 0901102	90.00	110.00	7.00	10.00
WCA 0951101	95.00	105.00	7.00	10.00
WCA 1001101	100.00	110.00	7.00	10.00
WCA 1051101	105.00	115.00	7.00	10.00
WCA 1101101	110.00	120.00	7.00	10.00
WCA 1201101	120.00	130.00	7.00	10.00
WCA 1251101	125.00	140.00	9.00	12.00
WCA 1301101	130.00	145.00	9.00	12.00
WCA 1401101	140.00	155.00	9.00	12.00
WCA 1501101	150.00	165.00	9.00	12.00
WCA 1601101	160.00	175.00	9.00	12.00
WCA 1701102	170.00	185.00	10.00	14.00
WCA 1781002	178.61	193.50	8.00	11.00
WCA 1801101	180.00	195.00	10.00	14.00
WCA 2001102	200.00	220.00	12.00	16.00
WCA 2401101	240.00	260.00	12.00	16.00

Wiper Seals

STYLE : WRC

TYPE : Medium Duty



MATERIAL :

NT85 is an Acrylonitrile Butadiene Rubber (NBR) Compound of Hardness Shore 'A' 88° approximately.

MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C

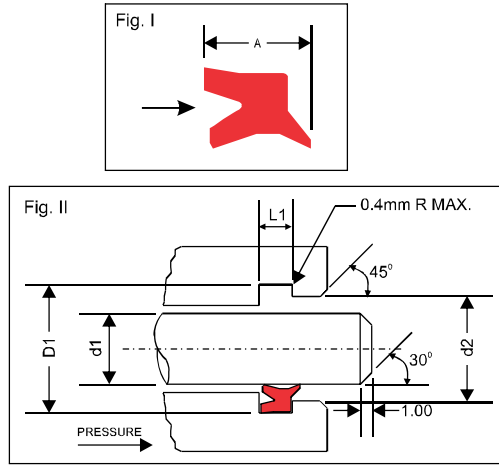
Speed : 1.0 mtr./sec.

DETAILS :

The Max Spare type WRC has a lip designed to remove dirt, mud, dust, moisture, etc. accumulating on the rod. The wiper is manufactured from a high hardness NBR compound suitable for installing in a simple groove design. The lip of this wiper does not project beyond the cylinder cover so that it is protected from damage.

Max Spare Part No. Nitrile	d1 (f8)	D1 (H10)	L1 (+0.2)	D2 (H11)	Total Ht.	Max Spare Part No. Nitrile	d1 (f8)	D1 (H10)	L1 (+0.2)	D2 (H11)	Total Ht.
WRC 0121106	12.00	17.00	3.00	14.00	5.00	WRC 0631102	63.00	73.00	5.30	66.00	7.00
WRC 0161103	16.00	24.60	5.30	19.00	7.00	WRC 0631107	63.00	73.00	6.30	68.00	10.00
WRC 0181102	18.00	26.60	5.30	21.00	7.00	WRC 0651101	65.00	75.00	5.30	68.00	7.00
WRC 0201109	20.00	28.00	5.30	24.00	7.50	WRC 0701103	70.00	80.00	5.30	75.00	7.00
WRC 0201102	20.00	28.60	5.30	23.00	7.00	WRC 0701123	70.00	80.00	6.00	75.00	8.00
WRC 0221108	22.00	30.60	5.30	25.00	7.00	WRC 0801104	70.00	80.60	5.30	73.00	7.00
WRC 0221106	22.00	32.00	5.30	25.00	7.00	WRC 0701104	75.00	83.60	5.30	78.00	7.00
WRC 0221107	22.00	33.00	4.70	25.00	6.00	WRC 0751101	75.00	87.20	7.10	81.00	12.00
WRC 0251101	25.00	33.00	4.30	26.00	6.00	WRC 0801110	80.00	90.00	7.30	85.00	10.00
WRC 0251104	25.00	33.60	5.30	29.00	7.00	WRC 0801108	80.00	92.20	7.20	86.00	12.00
WRC 0251108	25.00	35.00	7.00	30.00	10.00	WRC 0851105	85.00	95.60	7.20	91.00	12.00
WRC 0281105	28.00	36.00	5.30	31.00	7.00	WRC 0901104	90.00	100.20	7.10	94.00	12.00
WRC 0301112	30.00	38.00	5.30	33.00	7.00	WRC 0901115	90.00	107.00	7.10	96.00	12.20
WRC 0321101	32.00	40.00	5.30	36.00	7.00	WRC 0901101	90.00	102.20	7.20	96.00	12.00
WRC 0351103	35.00	43.00	5.30	38.00	7.00	WRC 0901113	90.00	105.00	7.00	97.00	10.00
WRC 0351108	35.00	45.00	5.30	40.00	7.00	WRC 0951104	95.00	108.00	5.30	101.50	10.00
WRC 0351109	35.00	44.00	5.30	39.60	8.00	WRC 1001103	100.00	110.00	5.00	105.00	7.00
WRC 0361111	36.00	43.00	4.20	39.60	7.00	WRC 1001101	100.00	112.20	7.20	106.00	12.00
WRC 0361103	36.00	44.00	5.30	40.00	7.00	WRC 1101101	110.00	122.20	7.20	116.00	12.00
WRC 0361105	36.00	45.00	5.30	39.00	7.00	WRC 1201103	120.00	130.60	5.30	125.00	7.00
WRC 0361109	36.00	46.00	7.30	41.00	10.00	WRC 1201101	120.00	132.20	7.10	126.00	12.00
WRC 0401110	40.00	48.00	5.30	44.00	7.00	WRC 1251106	125.00	137.00	7.10	131.00	12.00
WRC 0401104	40.00	48.60	5.30	43.00	7.00	WRC 1251103	125.00	140.00	10.20	132.50	16.00
WRC 0401109	40.00	50.00	5.00	45.00	8.00	WRC 1301101	130.00	142.00	7.00	136.20	10.00
WRC 0421104	42.00	50.00	5.30	46.00	7.00	WRC 1401106	140.00	150.00	5.30	144.00	7.00
WRC 0451101	45.00	55.00	5.30	48.00	7.00	WRC 1401101	140.00	155.00	10.00	147.50	16.00
WRC 0501104	50.00	58.00	5.30	54.00	7.00	WRC 1501107	150.00	162.00	7.10	156.00	8.20
WRC 0501107	50.00	58.60	5.30	53.00	7.00	WRC 1501101	150.00	165.00	10.20	157.60	16.00
WRC 0501110	50.00	60.00	5.00	55.00	7.00	WRC 1551103	155.00	169.20	7.10	156.00	12.00
WRC 0501113	50.00	60.00	5.30	55.00	8.00	WRC 1601108	160.00	175.00	10.10	168.00	12.00
WRC 0501112	50.00	60.00	7.00	55.00	10.00	WRC 1601105	160.00	175.00	10.20	167.60	16.00
WRC 0551103	55.00	65.00	5.30	60.00	7.00	WRC 1701101	170.00	182.00	7.00	176.00	12.00
WRC 0561103	56.00	66.00	5.30	61.00	7.00	WRC 1801103	180.00	200.00	10.20	190.00	18.00
WRC 0561107	56.00	66.60	5.30	59.00	7.00	WRC 1901102	190.00	210.00	10.30	200.00	18.00
WRC 0601103	60.00	68.00	5.30	63.00	7.00	WRC 2001101	200.00	220.00	10.20	210.00	18.00
WRC 0601114	60.00	70.00	5.30	65.00	7.00	WRC 2501101	250.00	270.00	10.00	260.00	18.00

Wiper Seals - WDA (Heavy Duty)



MATERIAL:

PUX - is a polyurethane compound of 92° shore 'A' hardness.

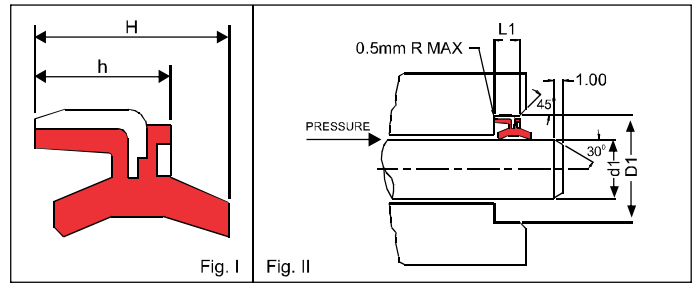
MAX. OPERATING CONDITIONS:

Temp. range: -30°C to +100°C
Speed: 1.0 m/s.

DETAILS:

The Max Spare type WDA wiper is a double function seal. The function of the double lip wiper WDA is to prevent dust, dirt and moisture from entering in cylinder. This is achieved by a special design which largely prevents scoring, protects the guiding parts and extends the service life of the seal. In addition, the sealing lip facing the media reduces the residual oil film. Providing a simple groove design this wiper is supplied as a continuous ring for easy installation into the groove. Max Spare type WDA wiper is also available in NBR. Due to excellent wear resistance properties of polyurethane, the life expected is three times that of NBR.

Wiper Seals - WCC (Heavy Duty)



MATERIAL:

PUX - is a Polyurethane compound of 92° shore 'A' hardness.

MAX. OPERATING CONDITIONS:

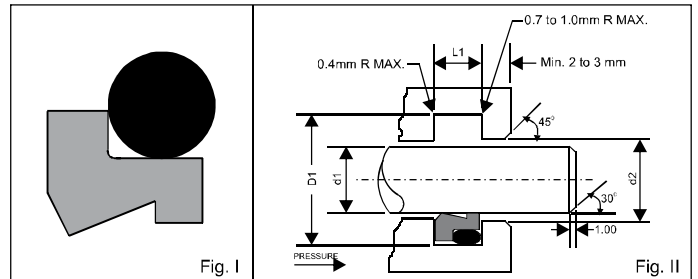
Temp. Range: -30°C to +100°C
Speed: 0.5 m/s

DETAILS:

Max Spare WCC is a double acting rod wiper seal with metal casing for open housing. This wipers are press fit installation in open housing and careful fitting is prerequisite for perfect functioning of the seal. Max Spare WCC wipers are available in NBR also.

Max Spare Part No.	d1	D1	h/H
Polyurethane			
WCC030L502	30.00	42.00	6.00/9.00
WCC040L504	40.00	52.00	7.00/10.00
WCC045L504	45.00	57.00	7.00/10.00
WCC050L505	50.00	62.00	7.00/10.00
WCC060L504	60.00	74.00	8.00/11.00

Wiper Seals - WTC (Medium Duty)



MATERIAL:

Outer O'Ring NT70 : Acrylonitrile Butadiene Rubber (NBR) compound of hardness of shore 'A' 70/75. Inner seal ring BFT : Bronze Filled PTFE compound with Bronze content of 40% (for higher pressure, 60% BFT is recommended).

MAX. OPERATING CONDITIONS:

Temp. Range: -30°C to +100°C (upto +200°C on request). Speed: 10 m/s.

DETAILS:

The WTC style wiper seal is suitable for medium, heavy duty hydraulic & for cylinders with small groove dimensions. The WTC wiper seal is a combination of a NBR O'ring energiser & an inner seal ring made of PTFE added with a filler to increase the resistance of the seal ring to wear & tear. Generally Bronze is used as filler but also Glass/Graphite filled PTFE can be provided on request. The Bronze filled PTFE liner seal ring when in contact with the piston rod ensures a stick slip free movement & reduces friction to a minimum.

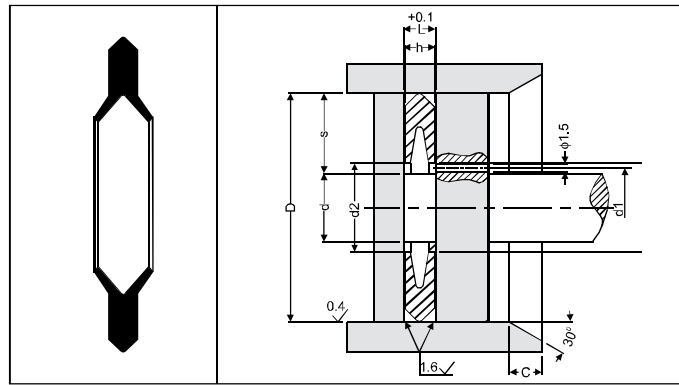
Part No. Nitrile	d1	D1	L1
WTC0257001	25.00	31.80	5.00
WTC0360802	36.00	43.60	4.20
WTC0400801	40.00	46.80	5.00
WTC0400802	40.00	48.80	6.00
WTC0450808	45.00	51.80	5.00
WTC0450804	45.00	53.80	6.00
WTC0560802	56.00	64.80	6.00
WTC0630801	63.00	69.80	5.00
WTC0650801	63.00	73.80	6.00
WTC0800801	80.00	88.80	6.00
WTC0900801	90.00	98.80	6.00
WTC0957003	95.00	107.20	8.40
WTC1500801	150.00	158.80	6.00

Max Spare Part No.	d1 (f8)	D1 (H8)	L1 +0.1	Seal Ht. A
WDA 010L501	10.00	16.00	3.60	4.80
WDA 012L502	12.00	18.00	4.50	7.00
WDA 016L501	16.00	24.00	4.50	6.00
WDA 018L501	18.00	26.00	4.50	6.00
WDA 020L503	20.00	28.00	5.00	7.00
WDA022L503	22.40	30.40	4.50	6.00
WDA 025L501	25.00	33.00	5.00	7.00
WDA 028L501	28.00	35.00	4.50	6.00
WDA 028L503	28.00	36.00	5.00	7.00
WDA 030L501	30.00	38.00	5.00	6.50
WDA 031L501	31.50	39.50	5.00	6.50
WDA 032L505	32.00	40.00	4.50	5.80
WDA 035L501	35.00	43.00	5.00	6.50
WDA 040L502	40.00	48.00	5.00	6.50
WDA045L502	45.00	53.00	5.00	6.50
WDA 045L505	45.00	53.00	5.00	7.00
WDA 050L501	50.00	58.00	5.00	6.50
WDA 056L501	56.00	66.00	5.00	7.00
WDA 063L501	63.00	71.00	5.00	6.50
WDA 070L501	70.00	80.00	6.00	8.00
WDA 085L501	85.00	95.00	6.00	8.00
WDA 090L503	90.00	100.00	6.00	8.00
WDA 100L503	100.00	110.00	6.00	8.00
WDA 110L501	110.00	125.00	8.00	11.00
WDA 120L502	120.00	135.00	8.00	11.00
WDA 136L501	136.00	146.00	5.50	8.35
WDA 140L502	140.00	155.00	8.50	9.50
WDA 150L503	150.00	165.00	8.00	11.00
WDA 155L501	155.00	165.00	5.50	8.35
WDA 160L502	160.00	175.00	8.00	11.00
WDA 176L501	176.00	186.00	5.50	8.35
WDA 180L501	180.00	195.00	8.00	11.00
WDA 200L502	200.00	214.00	7.00	9.50

Wiper Seals

STYLE : LA

TYPE : Double Acting Seal



MATERIAL :

NT75 is an Acrylonitrile Butadiene Rubber (NBR) Compound with Hardness of 75° / 80° shore. FPM material also supply on request.

MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C (upto +200° C on request)

Speed : ≤ 1.0 m/s

Pressure: ≤ 16 Bar

DETAILS :

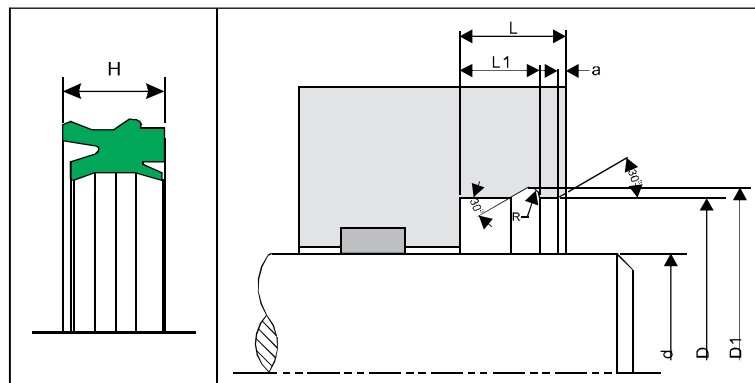
The LA is a double acting piston seal suitable for small grooves, easy installation due to its special geometry.

Part No. Nitrile	D	d	h/H
LA0090901	20.00	9.50	2.00/2.30
LA0101001	20.00	10.00	2.00/2.30
LA0150904	25.00	15.00	2.00/2.30
LA0250905	35.00	25.00	2.50/3.00
LA0371001	50.00	37.50	2.50/3.00
LA0630902	80.00	63.00	3.50/4.10
LA1680901	200.00	168.00	8.00/8.80
LA1891001	225.00	189.50	8.00/8.80
LA2130901	250.00	213.00	8.00/8.80

Wiper Seals

STYLE : WDB

TYPE : Double Acting Seal



MATERIAL :

PU-5 is a polyurethane compound of 90° shore A hardness.

MAX OPERATING CONDITIONS :

Temp. : -30° C to 100° C (upto +200° C on request)

Speed : ≤ 1.0 m/s

Pressure: ≤ 16 Bar

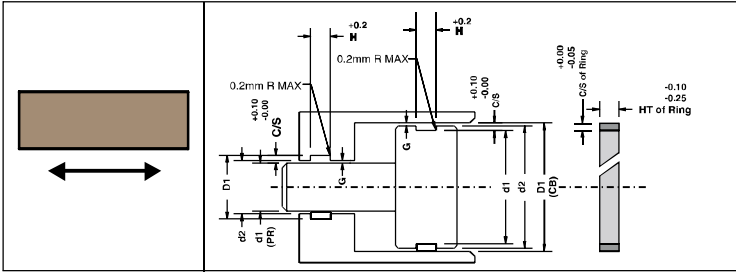
DETAILS :

The WDB is a rod cum wiper seal use in pneumatic cylinders having three functions - sealing, wiping and fixing gives excellent working life.

Part No. Nitrile	d	D	H
WDB012L502	12.00	22.00	10.70
WDB016L503	16.00	26.00	10.40
WDB016L501	16.00	26.00	10.70
WDB020L501	20.00	30.00	10.70
WDB025L509	25.00	35.00	10.40
WDB025L502	25.00	35.00	10.70
WDB025L501	25.00	35.00	11.20
WDB032L501	32.00	42.00	11.20
WDB040L501	40.00	50.00	10.70

Wear Rings

STYLE : GA TYPE : Medium Duty



MATERIAL :

BFT : Bronze filled PTFE compound with Bronze content of 40% (for higher load bearing 60% BFT is recommended).

MAX OPERATING CONDITIONS :

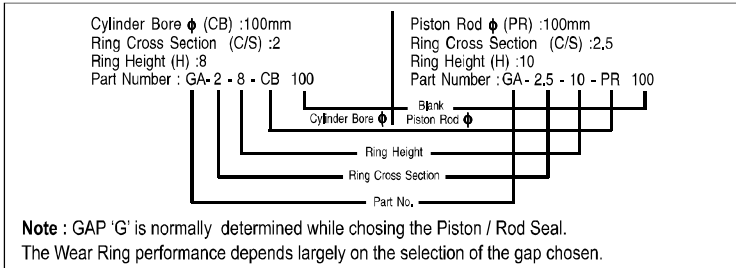
Temp. : -50° C to 200° C
Speed : 6.0 mtr./sec. (+80° C) 15.0 mtr./sec. (20° C)
Compressive Strength Yield : 20 N/m² (23° C) 9.0 N/m² (80° C)

DETAILS :

The GA wear ring are supplied usually available is split form. (The split is oblique for Reciprocating / Oscillating application & straight for rotary). If required running length's are also readily available. The GA wear ring is the most widely used general purpose wear ring. The material used is PTFE with a Bronze content of 40%, for further improvement in performance a Bronze content 60% can be made available on request. The GA wear ring can be cut to length to suit your specific requirements. Length not only has to be calculated depending on the Rod / Cylinder bore diameter also considering thermal expansion in the GA wear ring in operation.

CALCULATION OF LENGTH ::

The centre line diameter multiplied by p (3.14) give us the circumference length of wear ring. But allowance for thermal expansion is to be provided. Therefore we reduce the p i.e. 3.14 to 3.13 but to a minimum gap of 1.5 mm for small diameters.



Max Spare Part No.	Ring C/S	Ring Ht. H +0.00 -0.20	GAP Min. /Max. ' G '	Cylinder Bore φ CB (H11)	Piston Rod φ PR (F9)
GA-1.5-4.0	CB φ ___ mm PR φ ___ mm	1.5	4.0	0.65/1.0	10 to 25 8 to 20
GA-1.5-5.6	CB φ ___ mm PR φ ___ mm	1.5	5.6	0.65/1.0	10 to 25 8 to 20
GA-2.0-8.0	CB φ ___ mm PR φ ___ mm	2.0	8.0	0.75/1.10	40 to 320 35 to 300
GA-2.0-10.0	CB φ ___ mm PR φ ___ mm	2.0	10.0	0.75/1.10	40 to 320 35 to 300
GA-2.0-15.0	CB φ ___ mm PR φ ___ mm	2.0	15.0	0.75/1.10	125 to 900 125 to 900
GA-2.0-20.0	CB φ ___ mm PR φ ___ mm	2.0	20.0	0.75/1.10	200 to 900 200 to 900
GA-2.5-5.6	CB φ ___ mm PR φ ___ mm	2.5	5.6	0.85/1.60	25 to 80 20 to 75
GA-2.5-6.0	CB φ ___ mm PR φ ___ mm	2.5	6.0	0.85/1.60	25 to 80 20 to 75
GA-2.5-8.0	CB φ ___ mm PR φ ___ mm	2.5	8.0	0.85/1.60	40 to 320 35 to 300
GA-2.5-9.7	CB φ ___ mm PR φ ___ mm	2.5	9.7	0.85/1.60	40 to 320 35 to 300
GA-2.5-10.0	CB φ ___ mm PR φ ___ mm	2.5	10.0	0.85/1.60	40 to 320 35 to 300
GA-2.5-12.0	CB φ ___ mm PR φ ___ mm	2.5	12.0	0.85/1.60	40 to 320 35 to 300
GA-2.5-15.0	CB φ ___ mm PR φ ___ mm	2.5	15.0	0.85/1.60	125 to 900 120 to 900
GA-2.5-20.0	CB φ ___ mm PR φ ___ mm	2.5	20.0	0.85/1.60	200 to 900 200 to 900
GA-2.5-25.0	CB φ ___ mm PR φ ___ mm	2.5	25.0	0.85/1.60	300 to 900 300 to 900
GA-3.0-20.0	CB φ ___ mm PR φ ___ mm	3.0	20.0	0.85/1.60	300 to 900 300 to 900
GA-3.17-9.5	CB φ ___ mm PR φ ___ mm	3.17	9.5	0.85/1.60	300 to 900 300 to 900
GA-3.17-12.7	CB φ ___ mm PR φ ___ mm	3.17	12.7	0.85/1.60	300 to 900 300 to 900
GA-3.17-15.8	CB φ ___ mm PR φ ___ mm	3.17	15.8	0.85/1.60	300 to 900 300 to 900
GA-3.17-25.4	CB φ ___ mm PR φ ___ mm	3.17	25.40	0.85/1.60	300 to 900 300 to 900

Wear Rings - PRW

MAX. OPERATING CONDITIONS:

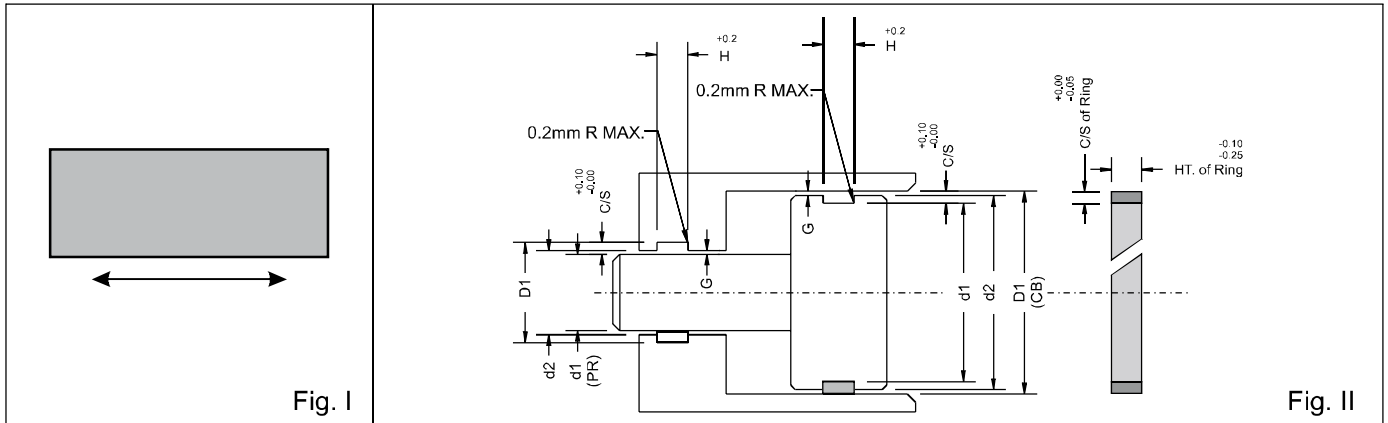
Speed: 5 m/s
Temp. Range: -40° C to +130° C
Compression Strength: 105 N/mm²

DETAILS:

The wear strip is manufactured using a polyester fabric reinforced polyester resin material additive PTFE or graphite and is proven to be compatible with a wide range of fluids, including mineral oils, water based fluids and phosphate esters. Manufactured to very tight tolerance and providing bearing solutions for reciprocating, oscillating and slow rotary movement applications.

Max Spare Part No.	C/S (mm)	Ht. (mm)
GB0028103	2.5	5.6
GB002N601	2.5	9.7
GB0028105	2.5	15.0
GB0028105	2.5	20.0
GB002N603	2.5	25.0

STYLE : GB TYPE : Heavy Duty Bearing Rings



MATERIAL:

As per below chart.

MAX. OPERATING CONDITIONS:

Temp. range: -30°C to +120°C.

Composite Strength Yield: 90 N/mm² (80°C).

Speed: 2 m/s. (+20°C) 0.5 m/s. (+80°C).

MAX. SURFACE ROUGHNESS:

Static: 1.0µmRa.

COMPATIBILITY:

Mineral oils, bio oils, water soluble & water glycol fluids.

APPLICATION:

Heavy duty operation, preferably in conjunction with type GA wear rings.

ID	OD	Materials				Max Spare Part No.
		Nylon (GB)	BFT (GA)	Phenolic (GB)	PRW (GB)	
20.00	23.00	✓	✓			20023
20.00	24.00	✓	✓			20024
20.00	25.00	✓	✓			20025
20.00	26.00	✓	✓			20026
22.00	25.00	✓	✓			22025
22.00	26.00	✓	✓			22026
22.00	27.00	✓	✓			22027
22.00	28.00	✓	✓			22028
25.00	28.00	✓	✓	✓		25028
25.00	29.00	✓	✓	✓		25029
25.00	30.00	✓	✓	✓		25030
25.00	31.00	✓	✓	✓		25031
28.00	31.00	✓	✓	✓		28031
28.00	32.00	✓	✓	✓		28032
28.00	33.00	✓	✓	✓		28033
28.00	34.00	✓	✓	✓		28034
30.00	33.00	✓	✓	✓		30033
30.00	34.00	✓	✓	✓		30034
30.00	35.00	✓	✓	✓		30035
30.00	36.00	✓	✓	✓		30036
35.00	38.00	✓	✓	✓		35038
35.00	39.00	✓	✓	✓		35039
35.00	40.00	✓	✓	✓		35040
35.00	41.00	✓	✓	✓		35041

ID	OD	Materials				Max Spare Part No.
		Nylon (GB)	BFT (GA)	Phenolic (GB)	PRW (GB)	
36.00	39.00	✓	✓	✓		36039
36.00	40.00	✓	✓	✓		36040
36.00	41.00	✓	✓	✓		36041
36.00	42.00	✓	✓	✓		36042
40.00	43.00	✓	✓	✓		40043
40.00	44.00	✓	✓	✓		40044
40.00	45.00	✓	✓	✓		40045
40.00	46.00	✓	✓	✓		40046
45.00	48.00	✓	✓	✓		45048
45.00	49.00	✓	✓	✓		45049
45.00	50.00	✓	✓	✓		45050
45.00	51.00	✓	✓	✓		45051
50.00	54.00	✓	✓	✓		50054
50.00	55.00	✓	✓	✓		50055
50.00	56.00	✓	✓	✓		50056
55.00	59.00	✓	✓	✓		55059
55.00	60.00	✓	✓	✓		55060
56.00	61.00	✓	✓	✓		56061
60.00	64.00	✓	✓	✓		60064
60.00	65.00	✓	✓	✓		60065
60.00	66.00	✓	✓	✓		60066
63.00	67.00	✓	✓	✓		63067
63.00	68.00	✓	✓	✓		63068
63.00	69.00	✓	✓	✓		63069

Wear Rings

STYLE : GB TYPE : Heavy Duty Bearing Rings

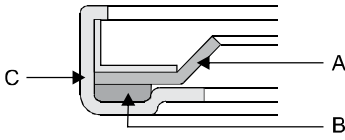
ID	OD	Materials				Max Spare Part No.
		Nylon (GB)	BFT (GA)	Phenolic (GB)	PRW (GB)	
65.00	69.00	✓	✓	✓		65069
65.00	70.00	✓	✓	✓		65070
65.00	71.00	✓	✓	✓		65071
70.00	75.00	✓	✓	✓		70075
70.00	76.00	✓	✓	✓		70076
70.00	78.00	✓	✓	✓		70078
75.00	80.00	✓	✓	✓		75080
75.00	81.00	✓	✓	✓		75081
75.00	83.00	✓	✓	✓		75083
80.00	85.00	✓	✓	✓		80085
80.00	86.00	✓	✓	✓		80086
80.00	88.00	✓	✓	✓		80088
85.00	90.00	✓	✓	✓		85090
85.00	91.00	✓	✓	✓		85091
85.00	93.00	✓	✓	✓		85093
90.00	95.00	✓	✓	✓		90095
90.00	96.00	✓	✓	✓		90096
90.00	98.00	✓	✓	✓		90098
95.00	100.00	✓	✓	✓	✓	95100
95.00	101.00	✓	✓	✓		95101
95.00	103.00	✓	✓	✓		95103
100.00	105.00	✓	✓	✓	✓	100105
100.00	106.00	✓	✓	✓		100106
100.00	108.00	✓	✓	✓		100108
105.00	110.00	✓	✓	✓	✓	105110
105.00	111.00	✓	✓	✓		105111
105.00	113.00	✓	✓	✓		105113
110.00	115.00	✓	✓	✓	✓	110115
110.00	116.00	✓	✓	✓		110116
110.00	118.00	✓	✓	✓		110118
115.00	120.00	✓	✓	✓	✓	115120
115.00	121.00	✓	✓	✓		115121
115.00	123.00	✓	✓	✓		115123
120.00	125.00	✓	✓	✓	✓	120125
120.00	126.00	✓	✓	✓		120126
120.00	128.00	✓	✓	✓		120128
125.00	130.00	✓	✓	✓	✓	125130
125.00	131.00	✓	✓	✓		125131
125.00	133.00	✓	✓	✓		125133
130.00	135.00	✓	✓	✓	✓	130135
130.00	136.00	✓	✓	✓		130136
130.00	138.00	✓	✓	✓		130138
140.00	145.00	✓	✓	✓	✓	140145
140.00	146.00	✓	✓	✓		140146
140.00	148.00	✓	✓	✓		140148
150.00	155.00	✓	✓	✓	✓	150155
150.00	156.00	✓	✓	✓		150156
150.00	158.00	✓	✓	✓		150158

ID	OD	Materials				Max Spare Part No.
		Nylon (GB)	BFT (GA)	Phenolic (GB)	PRW (GB)	
160.00	165.00	✓	✓	✓	✓	160165
160.00	166.00	✓	✓	✓		160166
160.00	168.00	✓	✓	✓		160168
170.00	175.00	✓	✓	✓	✓	170175
170.00	176.00	✓	✓	✓		170176
170.00	178.00	✓	✓	✓		170178
180.00	185.00	✓	✓	✓	✓	180185
180.00	186.00	✓	✓	✓		180186
180.00	188.00	✓	✓	✓		180188
200.00	205.00	✓	✓	✓	✓	200205
200.00	206.00	✓	✓	✓		200206
200.00	208.00	✓	✓	✓		200208
220.00	225.00	✓	✓		✓	220225
220.00	226.00	✓	✓			220226
220.00	228.00	✓				220228
250.00	255.00	✓	✓		✓	250255
250.00	256.00	✓	✓			250256
250.00	258.00	✓				250258
280.00	285.00	✓	✓		✓	280285
280.00	286.00	✓	✓			280286
280.00	288.00	✓				280288
300.00	305.00	✓	✓		✓	300305
300.00	306.00	✓	✓			300306
300.00	308.00	✓				300308
320.00	325.00	✓	✓		✓	320325
320.00	326.00	✓	✓			320326
320.00	328.00	✓				320328
350.00	355.00	✓	✓		✓	350355
350.00	356.00	✓	✓			350356
350.00	358.00	✓				350358
380.00	385.00	✓	✓		✓	380358
380.00	386.00	✓	✓			380386
380.00	388.00	✓				380388
400.00	405.00	✓	✓		✓	400405
400.00	406.00	✓	✓			400406
400.00	408.00	✓				400408
420.00	425.00	✓	✓		✓	420425
420.00	426.00	✓	✓			420426
420.00	428.00	✓				420428
450.00	455.00	✓	✓		✓	450455
450.00	456.00	✓	✓			450456
450.00	458.00	✓				450458
480.00	485.00	✓	✓		✓	480485
480.00	486.00	✓	✓			480486
480.00	488.00	✓				480488
500.00	505.00	✓	✓		✓	500505
500.00	506.00	✓	✓			500506
500.00	508.00	✓				500508

NOTE :

- 1) For PRW, the width will be standard i.e. 5.6, 9.7, 15, 20, 25.
- 2) For Nylon, BFT, Phenolic Guide the width of the Ring is as per requirement. (Open Size).

Rotary Shaft Seal - ATA



MATERIAL :

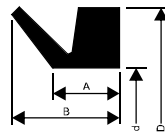
- A) Sealing Lip : PTFE compound filled carbon.
- B) Spacer : Rubber
- C) Metal Case : SS 304 (SS 316 on request).

MAX OPERATING CONDITIONS :

Temp. : -200°C to +260°C
 Pressure : 10 Bar.
 Speed : upto 30.0 mtr./sec.

Max Spare Part No.	d1 (mm)	D2 (mm)	L1 (mm)
ATA0207311	20.00	30.00	7.00
ATA0207315	20.00	32.00	7.00
ATA0257305	25.00	35.00	7.00
ATA0287301	28.00	40.00	7.00
ATA0327302	32.00	55.00	8.00
ATA0357301	35.00	55.00	8.00
ATA0377301	37.00	47.00	5.00
ATA0407308	40.00	55.00	8.00
ATA0407301	40.00	55.00	10.00
ATA0407312	40.00	62.00	8.00
ATA0427301	42.00	55.00	8.00
ATA0457303	45.00	65.00	10.00
ATA0487306	48.00	65.00	8.00
ATA0507315	50.00	62.00	8.00
ATA0507314	50.00	65.00	10.00
ATA0507316	50.00	68.00	8.00
ATA0507313	50.00	70.00	10.00
ATA0557302	55.00	72.00	8.00
ATA0557309	55.00	72.00	10.00
ATA0557307	55.00	80.00	8.00
ATA0607303	60.00	75.00	8.00
ATA0607301	60.00	80.00	10.00
ATA0627301	62.00	80.00	10.00
ATA0657301	65.00	85.00	10.00
ATA0657313	65.00	90.00	10.00
ATA0707301	70.00	90.00	10.00
ATA0757302	75.00	95.00	10.00
ATA0807302	80.00	100.00	10.00
ATA0907302	90.00	110.00	10.00
ATA0907303	90.00	110.00	12.00
ATA0997302	99.00	130.00	12.00
ATA1007302	100.00	130.00	12.00
ATA1107305	110.00	130.00	12.00
ATA1107303	110.00	140.00	12.00
ATA1207302	120.00	150.00	12.00
ATA1507303	150.00	180.00	12.00
ATA1507302	150.00	180.00	15.00

V Ring - VRA



MATERIAL :

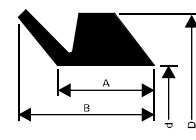
NBR compound of Hardness 70° Shore 'A'.

MAX OPERATING CONDITIONS :

Temp. : -30°C to +100°C
 Speed : 10 m/s

Max Spare Part No.	V Ring Type	d (mm)	D (mm)	Width A / B
VRA0180701	V-20 A	18.00	26.00	4.7/7.5
VRA0200701	V-22 A	20.00	28.00	4.7/7.5
VRA0220701	V-25 A	22.00	30.00	4.7/7.5
VRA0270701	V-30 A	27.00	35.00	4.7/7.5
VRA0290701	V-32 A	29.00	37.00	4.7/7.5
VRA0310701	V-35 A	31.00	39.00	4.7/7.5
VRA0360701	V-40 A	36.00	46.00	5.5/9.0
VRA0400701	V-45 A	40.00	50.00	5.5/9.0
VRA0450701	V-50 A	45.00	55.00	5.5/9.0
VRA0490701	V-55 A	49.00	59.00	5.5/9.0
VRA0540701	V-60 A	54.00	64.00	5.5/9.0
VRA0580701	V-65 A	58.00	68.00	5.5/9.0
VRA0630701	V-70 A	63.00	75.00	6.8/11.0
VRA0670701	V-75 A	67.00	79.00	6.8/11.0
VRA0720701	V-80 A	72.00	84.00	6.8/11.0
VRA0760601	V-85 A	76.00	88.00	6.8/11.0
VRA0810701	V-90 A	81.00	93.00	6.8/11.0
VRA0850701	V-95 A	85.00	97.00	6.8/11.0
VRA0900701	V-100 A	90.00	102.00	6.8/11.0
VRA0990701	V-110 A	99.00	113.00	7.9/12.8
VRA1080701	V-120 A	108.00	122.00	7.9/12.8
VRA1170701	V-130 A	117.00	131.00	7.9/12.8
VRA1260701	V-140 A	126.00	140.00	7.9/12.8
VRA1350701	V-150 A	135.00	149.00	7.9/12.8
VRA1440701	V-160 A	144.00	160.00	9.0/14.5
VRA1530701	V-170 A	153.00	169.00	9.0/14.5
VRA1620701	V-180 A	162.00	178.00	9.0/14.5
VRA1710701	V-190 A	171.00	187.00	9.0/14.5
VRA1800701	V-199 A	180.00	196.00	9.0/14.5
VRA1800702	V-200 A	180.00	210.00	14.3/25
VRA1980701	V-220 A	198.00	228.00	14.3/25
VRA2250701	V-250 A	225.00	255.00	14.3/25
VRA2470701	V-275 A	247.00	277.00	14.3/25
VRA2700701	V-300 A	270.00	300.00	14.3/25
VRA2920701	V-325 A	292.00	322.00	14.3/25
VRA3150701	V-350 A	315.00	345.00	14.3/25
VRA3370701	V-375 A	337.00	367.00	14.3/25
VRA3600701	V-400 A	360.00	390.00	14.3/25
VRA4050701	V-450 A	405.00	435.00	14.3/25
VRA4500701	V-500 A	450.00	480.00	14.3/25
VRA4950701	V-550 A	495.00	525.00	14.3/25

V Ring - VRS



MATERIAL :

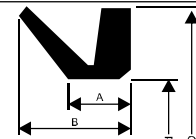
NBR compound of Hardness 70° Shore 'A'.

MAX OPERATING CONDITIONS :

Temp. : -30°C to +100°C
 Speed : 10 m/s

Max Spare Part No.	V Ring Type	d (mm)	D (mm)	Width A / B
VRS0290701	V-32 S	29	37	7.90/10.50
VRS0360701	V-40 S	36	46	9.50/13.00
VRS0400701	V-45 S	40	50	9.50/13.00
VRS0450701	V-50 S	45	55	9.50/13.00
VRS0490701	V-55 S	49	59	9.50/13.00
VRS0540701	V-60 S	54	64	9.50/13.00
VRS0580701	V-65 S	58	68	9.50/13.00
VRS0670701	V-75 S	67	79	11.30/15.50
VRS0760701	V-85 S	76	88	11.30/15.50
VRS0810701	V-90 S	81	93	11.30/15.50
VRS0850701	V-95 S	85	97	11.30/15.50
VRS0990701	V-110 S	99	113	13.10/18.00
VRS1080701	V-120 S	108	122	13.10/18.00
VRS1170701	V-130 S	117	131	13.10/18.00
VRS1260701	V-140 S	126	140	13.10/18.00
VRS1350701	V-150 S	135	149	13.10/18.00
VRS1440701	V-160 S	144	160	15.00/20.50
VRS1530701	V-170 S	153	169	15.00/20.50
VRS1800701	V-199 S	180	196	15.00/20.50

V Ring - VRL



MATERIAL :

NBR compound of Hardness 70° Shore 'A'.

MAX OPERATING CONDITIONS :

Temp. : -30°C to +100°C
 Speed : 10 m/s

Max Spare Part No.	V Ring Type	d (mm)	D (mm)	Width A / B
VRL1170701	V-130 L	117.00	130.00	6/10.50
VRL1350701	V-150 L	135.00	148.00	6/10.50
VRL1820701	V-200 L	182.00	195.00	6/10.50
VRL1980701	V-220 L	198.00	211.00	6/10.50
VRL2250701	V-250 L	225.00	238.00	6/10.50
VRL2470701	V-275 L	247.00	260.00	6/10.50
VRL2700701	V-300 L	270.00	283.00	6/10.50
VRL2920701	V-325 L	292.00	305.00	6/10.50
VRL3150701	V-350 L	315.00	328.00	6/10.50
VRL3370701	V-375 L	337.00	350.00	6/10.50
VRL4050701	V-450 L	405.00	418.00	6/10.50
VRL5400701	V-600 L	540.00	553.00	6/10.50