

Category

- Seal, Single Acting Piston

Construction

- Fabric reinforced NBR U-ring with hard fabric NBR back up washer

Housing

- Rectangular groove in multipart piston

Duty

- Medium to heavy

Features

- Central rib in U-ring extends past sealing lips to relieve pressure and prevent interseal pressure traps

Comments

- Usually installed in pairs on double acting pistons

Size Range

- Metric

Metric Specifications

Operating Conditions

Maximum Speed:	0.8 m/sec
Temperature Range:	-30°C ~ 100°C
Maximum Pressure:	600 bar

Surface Finish

Dynamic Sealing Face:	0.1 ~ 0.4 µmRa
Static Sealing Face:	1.6 µmRa max
Other Faces:	3.2 µmRa max

Extrusion Gap (Diametral)

Pressure (bar)	160	250	400	600
Maximum gap (mm)	0.35	0.30	0.20	0.10

Chamfer

Minimum Z = C x 0.5	where C = (ØD - Ød) ÷ 2
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Imperial Specifications

Operating Conditions

Maximum Speed:	2.5 ft/sec
Temperature Range:	-22°F ~ 212°F
Maximum Pressure:	9000 psi

Surface Finish

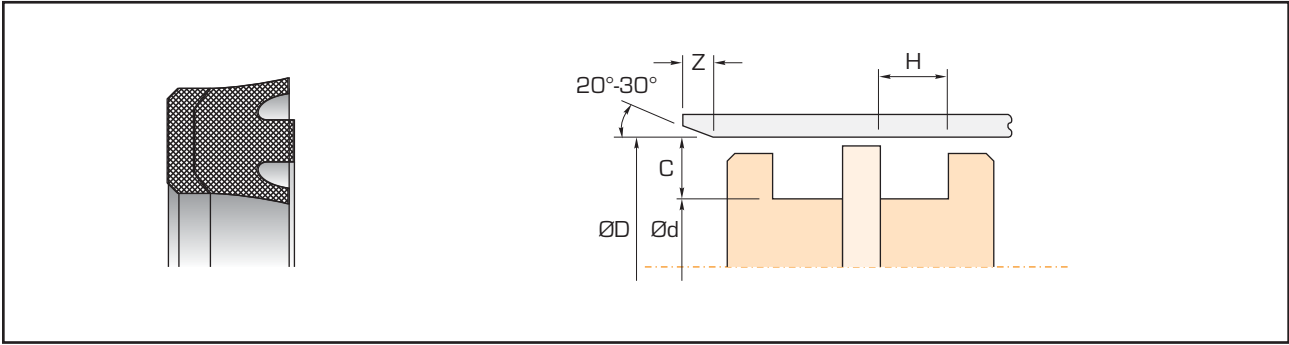
Dynamic Sealing Face:	4 ~ 16 µinCLA
Static Sealing Face:	63 µinCLA max
Other Faces:	125 µinCLA max

Extrusion Gap (Diametral)

Pressure (psi)	2400	3750	6000	9000
Maximum gap (in)	0.014	0.012	0.008	0.004

Chamfer

Minimum Z = C x 0.5	where C = (ØD - Ød) ÷ 2
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Metric Sizes

Part No.	ØD	Ød	H
<i>Tolerances</i>	<i>H9</i>	<i>h11</i>	<i>+0.30 -0</i>
SM2515-6.3T52	25.00	15.00	6.30
SM3220-7.8T52	32.00	20.00	7.80
SM3222-6.3T52	32.00	22.00	6.30
SM4030-6.3T52	40.00	30.00	6.30
SM5035-9.5T52	50.00	35.00	9.50
SM5540-10T52	55.00	40.00	10.00
SM6045-10T52	60.00	45.00	10.00
SM6348-9.5T52	63.00	48.00	9.50
SM7050-13T52	70.00	50.00	13.00
SM8060-12.5T52	80.00	60.00	12.50
SM9070-13T52	90.00	70.00	13.00
SM10080-12.5T52	100.00	80.00	12.50
SM11090-13T52	110.00	90.00	13.00
SM125100-16T52	125.00	100.00	16.00
SM140115-16.2T52	140.00	115.00	16.20
SM160130-19.8T52	160.00	130.00	19.80
SM160135-16T52	160.00	135.00	16.00
SM180150-20T52	180.00	150.00	20.00
SM200170-20T52	200.00	170.00	20.00
SM225195-20T52	225.00	195.00	20.00
SM250220-20T52	250.00	220.00	20.00
SM275245-20T52	275.00	245.00	20.00
SM300270-20T52	300.00	270.00	20.00