



Category

- Seal, Single Acting Rod

Construction

- Urethane asymmetric twin lip rod U-ring with knifed sealing lips and antiextrusion ring

Housing

- Rectangular groove in one piece gland

Duty

- Medium to heavy

Features

- Acetal antiextrusion ring
- Second sealing lip on heel for stability, primary lip protection and dry rod sealing

Comments

- An excellent high performance rod seal providing excellent performance over a broad range of operating conditions

Size Range

- Metric

Metric Specifications

Operating Conditions

Maximum Speed:	0.8 m/sec
Temperature Range:	-40°C ~ 105°C
Maximum Pressure:	500 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)	100	200	300	400	500
Maximum gap (mm)	1.60	0.80	0.50	0.35	0.25

Chamfers

Minimum $Z = C \times 0.85$ where $C = (\text{ØD} - \text{Ød}) \div 2$

Imperial Specifications

Operating Conditions

Maximum Speed:	2.5 ft/sec
Temperature Range:	-40°F ~ 220°F
Maximum Pressure:	7500 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)	1500	3000	4500	6000	7500
Maximum gap (in)	0.060	0.030	0.020	0.015	0.010

Chamfers

Minimum $Z = C \times 0.85$ where $C = (\text{ØD} - \text{Ød}) \div 2$

Metric Sizes

Part No.	Ød	ØD	H	h
<i>Tolerances</i>	<i>f7</i>	<i>H10</i>	<i>+0.25 -0</i>	
M5540-10-RSLA	40.00	55.00	11.00	10.00
M5142-10-RSLA	42.00	51.00	11.00	10.00
M5245-13-RSLA	45.00	52.00	14.00	13.00
M5950-10-RSLA	50.00	59.00	11.00	10.00
M6550-10-RSLA	50.00	65.00	11.00	10.00
M7050-12-RSLA	50.00	70.00	13.00	12.00
M6860-13-RSLA	60.00	68.00	14.00	13.00
M6960-10-RSLA	60.00	69.00	11.00	10.00
M8060-12-RSLA	60.00	80.00	13.00	12.00
M8070-7.2-RSLA	70.00	80.00	8.00	7.20

Metric Sizes (cont'd)

Part No.	Ød	ØD	H	h
M8570-11.5-RSLA	70.00	85.00	12.50	11.50
M8678-13-RSLA	78.00	86.00	14.00	13.00
M9580-11.5-RSLA	80.00	95.00	12.50	11.50
M10597-13-RSLA	97.00	105.00	14.00	13.00
M120100-13.5-RSLA	100.00	120.00	14.50	13.50
M125105-12-RSLA	105.00	125.00	13.00	12.00
M126118-13-RSLA	118.00	126.00	14.00	13.00
M140120-12-RSLA	120.00	140.00	13.00	12.00
M145125-12-RSLA	125.00	145.00	13.00	12.00
M151143-13-RSLA	143.00	151.00	14.00	13.00
M179171-13-RSLA	171.00	179.00	14.00	13.00