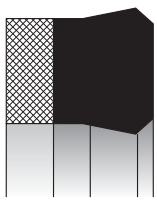
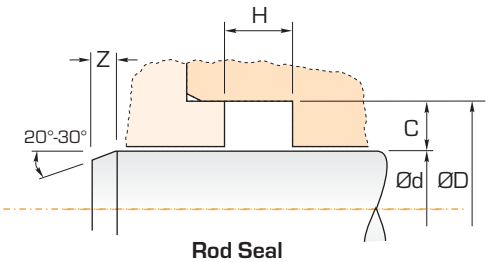
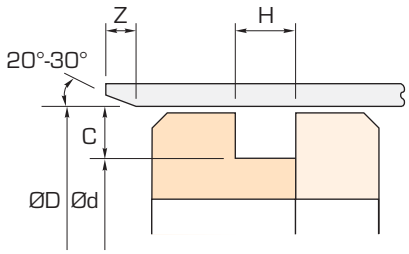
SM & S





Rod Seal



Piston Seal

Category

- Seal, Single Acting Rod or Piston

Construction

- Fabric reinforced NBR heel with homogeneous NBR sealing element

Housing

- Rectangular groove in one or two piece gland or piston

Duty

- Medium

Features

- Self energising sealing element seals positively from low to high pressure
- Fabric reinforced base retains sealing media to reduce friction and wear

Comments

- NBR and fabric seals are often more resistant to high temperature spikes than urethane seals

Size Range

- Metric and imperial

Metric Specifications

Operating Conditions

Maximum Speed:	0.5 m/sec
Temperature Range:	-40°C ~ 110°C
Maximum Pressure:	400 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
Maximum gap (mm)	0.40	0.30	0.20

Chamfer

Minimum Z = C x 0.85	where C = (ØD - Ød) ÷ 2

Imperial Specifications

Operating Conditions

Maximum Speed:	1.5 ft/sec
Temperature Range:	-22°F ~ 212°F
Maximum Pressure:	6000 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
Maximum gap (in)	0.016	0.012	0.008

Chamfer

Minimum Z = C x 0.85	where C = (ØD - Ød) ÷ 2

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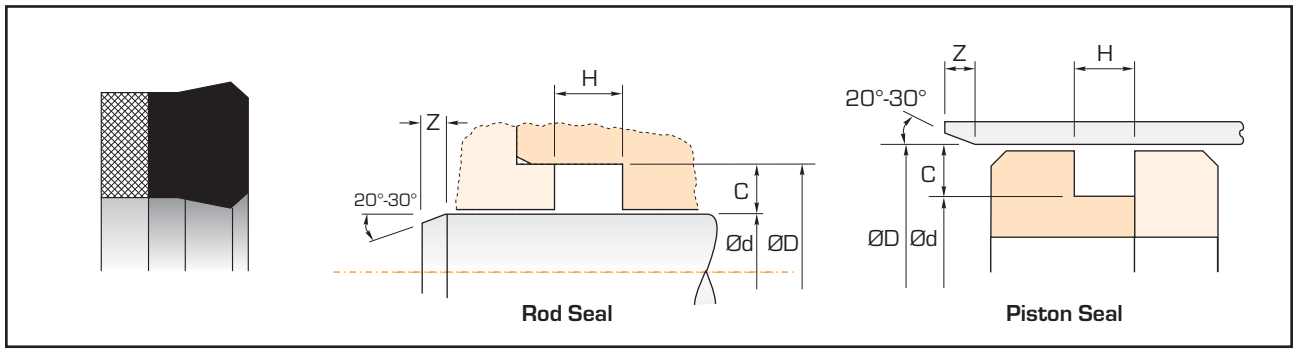

Metric Sizes

Part No	Ød	ØD	H
Rod	*f8*	*JS11*	*+0.25 -0*
Piston	*js11*	*H10*	*+0.25 -0*
SM1710-6.4	10.00	17.00	6.40
SM1912-6.4	12.00	19.00	6.40
SM2315-6.4	15.00	23.00	6.50
SM2416-7	16.00	24.00	7.00
SM2418-5	18.00	24.00	5.00
SM2618-6.4	18.00	26.00	6.40
SM2820-6.4	20.00	28.00	6.40
SM3022-6.4	22.00	30.00	6.40
SM3224-7.5	24.00	32.00	7.50
SM3325-6.4	25.00	33.00	6.40
SM3525-8	25.00	35.00	8.00
SM3628-6.4	28.00	36.00	6.40
SM3830-6.4	30.00	38.00	6.40
SM4032-6.4	32.00	40.00	6.40
SM4432-12	32.00	44.00	12.00
SM4335-6.4	35.00	43.00	6.40
SM4535-7	35.00	45.00	7.00
SM4535-8	35.00	45.00	8.00
SM4436-6.4	36.00	44.00	6.40
SM4840-6.4	40.00	48.00	6.40
SM6040-13	40.00	60.00	13.00
SM6040-14.5	40.00	60.00	14.50
SM5545-8	45.00	55.00	8.00
SM6545-14.5	45.00	65.00	14.50
SM6050-8	50.00	60.00	8.00
SM7050-14.5	50.00	70.00	14.50
SM7060-8	60.00	70.00	8.00
SM6961-8.5	61.00	69.00	8.50
SM7563-9.6	63.00	75.00	9.60
SM7563-11I	63.00	75.00	11.00
SM7565-8	65.00	75.00	8.00
SM7765-9.6	65.00	77.00	9.60
SM8270-9.6	70.00	82.00	9.60
SM8570-12	70.00	85.00	12.00

Metric Sizes (cont'd)

Part No	Ød	ØD	H
SM9070-14.5	70.00	90.00	14.50
SM8575-8	75.00	85.00	8.00
SM8476-8.5	76.00	84.00	8.50
SM9280-9.6	80.00	92.00	9.60
SM10080-14.5	80.00	100.00	14.50
SM9585-8	85.00	95.00	8.00
SM10085-12.5	85.00	100.00	12.50
SM10585-14.5	85.00	105.00	14.50
SM10290-9.6	90.00	102.00	9.60
SM11090-14.5	90.00	110.00	14.50
SM9991-8.5	91.00	99.00	8.50
SM120100-14.5	100.00	120.00	14.50
SM125100-14.5	100.00	125.00	14.50
SM115107-8.5	107.00	115.00	8.50
SM125115-8	115.00	125.00	8.00
SM140120-12.5	120.00	140.00	12.50
SM140125-12	125.00	140.00	12.00

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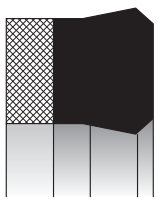
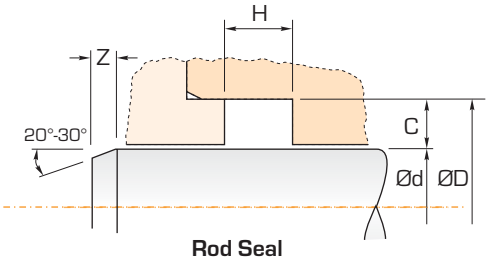
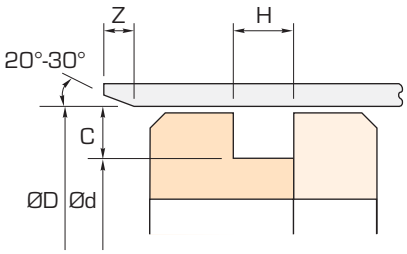




Rod Seal



Piston Seal

Imperial Sizes

Part No	Ød	ØD	H
Rod	*f8*	*JS11*	*+0.010 -0*
Piston	*js11*	*H10*	*+0.010 -1*
S062037-018	0.375	0.625	0.202
S075037-028	0.375	0.750	0.296
S087050-028	0.500	0.875	0.296
S100056-028	0.562	1.000	0.296
S100062-028	0.625	1.000	0.296
S118068-037	0.687	1.187	0.390
S100075-018	0.750	1.000	0.202
S109075-028	0.750	1.093	0.296
S125075-037	0.750	1.250	0.390
S112087-015	0.875	1.125	0.165
S137087-037	0.875	1.375	0.390
S143093-037	0.937	1.437	0.390
S150100-037	1.000	1.500	0.390
S175112-043	1.125	1.750	0.452
S162125-025	1.250	1.625	0.265
S162125-028	1.250	1.625	0.296
S175125-037	1.250	1.750	0.390
S187125-043	1.250	1.875	0.452
S168137-025	1.375	1.687	0.265
S175137-028	1.375	1.750	0.296
S200137-037	1.375	2.000	0.390
S200137-043	1.375	2.000	0.452
S187150-025	1.500	1.875	0.265
S200150-025	1.500	2.000	0.265
S200150-037	1.500	2.000	0.390
S212150-043	1.500	2.125	0.452
S225162-043	1.625	2.250	0.452
S212175-028	1.750	2.125	0.296
S225175-037	1.750	2.250	0.390
S243175-043	1.750	2.437	0.452
S250187-037	1.875	2.500	0.390
S250187-043	1.875	2.500	0.452
S237200-018	2.000	2.375	0.202
S250200-031	2.000	2.500	0.327

Imperial Sizes (cont'd)

Part No	Ød	ØD	H
S250200-037	2.000	2.500	0.390
S262200-043	2.000	2.625	0.452
S275200-056	2.000	2.750	0.577
S262212-037	2.125	2.625	0.390
S275212-037	2.125	2.750	0.390
S287212-037	2.125	2.875	0.390
S287212-056	2.125	2.875	0.577
S300225-037	2.250	3.000	0.390
S300225-056	2.250	3.000	0.577
S325250-037	2.500	3.250	0.390
S325250-056	2.500	3.250	0.577
S350275-056	2.750	3.500	0.577
S350300-037	3.000	3.500	0.390
S362300-037	3.000	3.625	0.390
S375300-037	3.000	3.750	0.390
S375300-056	3.000	3.750	0.577
S400325-056	3.250	4.000	0.577
S412337-056	3.375	4.125	0.577
S425350-056	3.500	4.250	0.577
S450350-056	3.500	4.500	0.577
S487400-065	4.000	4.875	0.671
S525425-075	4.250	5.250	0.765
S700600-075	6.000	7.000	0.765
S775650-100	6.500	7.750	1.015

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