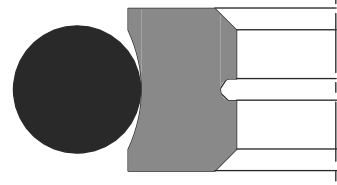


SHREENATHJI & CO.

SEALS FOR HYDRAULICS & PNEUMATICS

ROTARY SEAL

ROR002



Features:

Rotary seal profile ROR002 consists of two piece seal set for sealing shaft with one seal ring and one energizer O-ring.

Composition:

SEAL PROFILE		ROR002-N	ROR002-F
Seal ring	Material	PTFE+ Bronze +MoS2	PTFE+ Bronze +MoS2
	Code	TB40M	TB40M
O Ring	Material	Nitrile Butadiene rubber (NBR)	Fluoro Carbon Rubber (FPM)
	Code	NBR70	FPM80

Properties:

- 1 Low friction , free of stick slip
- 1 High abrasion resistance.
- 1 Wide temperature Range.
- 1 Good thermal conductivity.
- 1 Low wear and high extrusion resistance.
- 1 Wide fluid application range.
- 1 Resistance against cold flow.

Application:

- Ø Mobile Hydraulics
- Ø Injection molding machines
- Ø Machine tools
- Ø Material Handling Equipments.

General Technical Data:

Seal Profile	ROR002-N	ROR002-F
Temperature range	-20°C to +100°C	-20°C to +200 °C
Working Pressure(max.)	400 bar	400 bar
Surface Speed(max.)	4 m/s	4 m/s

Surface finish:

Roughness depth	R(max)	Ra
Sliding surface	£ 2.5 µm	0.05-0.3 µm
Bottom of groove	£ 6.3 µm	£ 1.6 µm
Side of groove	£ 15 µm	£ 3µm

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Extrusion gap dimension:

The gap dimension on the non-pressurised side of the seal is decisive for sealing function. Figures show the maximum permissible gap all on one side using the maximum clearance Ø and min rod Ø.

Profile dimension	Maximum permissible gap (S)			
H	160 bar	260 bar	320 bar	400 bar
2,2	0,35	0,3	-	-
3,2	0,4	0,35	-	-
4,2	0,5	0,4	0,3	-
6,3	0,6	0,5	0,4	0,3
8,1	0,7	0,6	0,5	0,4

Installation:

ROR002 is very easy to fit. Careful fitting of the seal is a prerequisite for it's perfect functioning.

Ordering format:

Please mention SHREENATHJI order code in your order. Example: Size 12 X 16.9 X 2.2

For Temp range: -20°C to +100°C. (O ring material is NBR70) Order code is ROR002-N-0120-0169-022

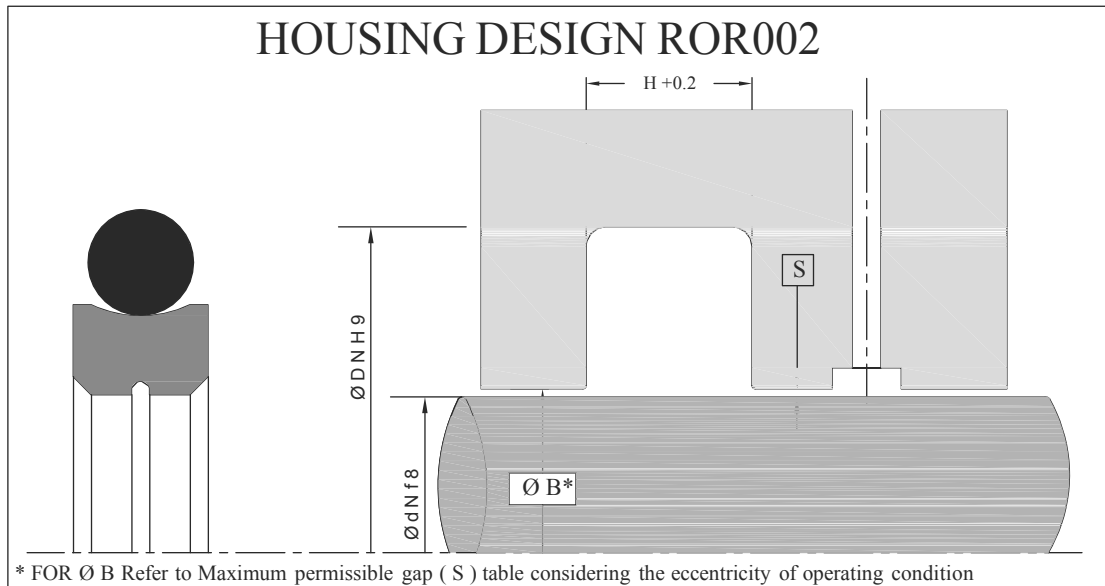
For Temp range: -20°C to +200°C. (O ring material is FPM80) Order code is ROR002-F-0120-0169-022

We have given all metric(mm) sizes here. For Imperial (inch) sizes please contact SHREENATHJI at

info@shreenathjiandco.com

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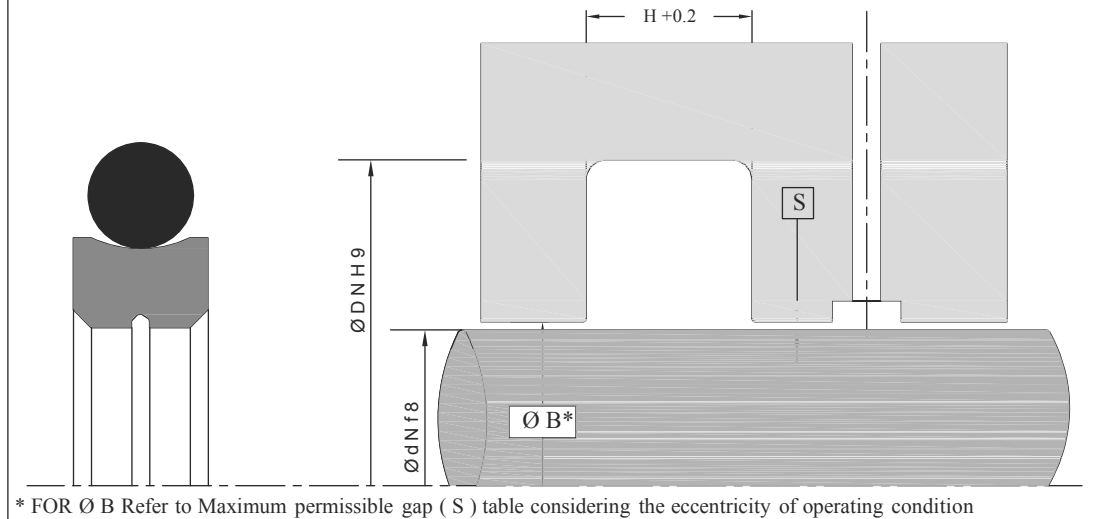
OUR STANDARD SIZE LIST

ØdN	TOL. f8	ØDN	TOL. H9	H(+0.2)	O RING SIZE	ORDER CODE For temp. range -20°C to +100°C use ROR002-N -20°C to +200°C use ROR002-F
12	-0.016 -0.043	16.9	+0.000 +0.052	2.2	14.00 X 1.78	ROR002-N / F-0120-0169-022
14	-0.016 -0.043	18.9	+0.000 +0.052	2.2	15.60 X 1.78	ROR002-N / F-0140-0189-022
16	-0.016 -0.043	20.9	+0.000 +0.052	2.2	17.17 X 1.78	ROR002-N / F-0160-0233-022
18	-0.016 -0.043	22.9	+0.000 +0.052	2.2	18.77 X 1.78	ROR002-N / F-0180-0229-022
20	-0.020 -0.053	27.5	+0.000 +0.052	3.2	21.89 X 2.62	ROR002-N / F-0200-0275-032
22	-0.020 -0.053	29.5	+0.000 +0.062	3.2	25.07 X 2.62	ROR002-N / F-0220-0295-032
25	-0.020 -0.053	32.5	+0.000 +0.062	3.2	28.24 X 2.62	ROR002-N / F-0250-0325-032
28	-0.020 -0.053	35.5	+0.000 +0.062	3.2	31.42 X 2.62	ROR002-N / F-0280-0355-032
32	-0.025 -0.064	39.5	+0.000 +0.062	3.2	34.59 X 2.62	ROR002-N / F-0320-0395-032
36	-0.025 -0.064	43.5	+0.000 +0.062	3.2	39.34 X 2.62	ROR002-N / F-0360-0435-032
40	-0.025 -0.064	51.0	+0.000 +0.074	4.2	44.04 X 3.53	ROR002-N / F-0400-0510-042
45	-0.025 -0.064	56.0	+0.000 +0.074	4.2	50.39 X 3.53	ROR002-N / F-0450-0560-042
50	-0.025 -0.064	61.0	+0.000 +0.074	4.2	53.57 X 3.53	ROR002-N / F-0500-0610-042
56	-0.030 -0.076	67.0	+0.000 +0.074	4.2	59.92 X 3.53	ROR002-N / F-0560-0670-042
63	-0.030 -0.076	74.0	+0.000 +0.074	4.2	66.27 X 3.53	ROR002-N / F-0630-0740-042
70	-0.030 -0.076	81.0	+0.000 +0.087	4.2	75.79 X 3.53	ROR002-N / F-0700-0810-042

SHREENATHJI & CO.

SEALS FOR HYDRAULICS & PNEUMATICS

HOUSING DESIGN ROR002



OUR STANDARD SIZE LIST

ØdN	TOL. f8	ØDN	TOL. H9	H(+0.2)	O RING SIZE	ORDER CODE For temp. range -20°C to +100°C use ROR002-N -20°C to +200°C use ROR002-F
80	-0.030 -0.076	91.0	+0.000 +0.087	4.2	85.32 X 3.53	ROR002-N / F-0800-0910-042
90	-0.036 -0.090	101.0	+0.000 +0.087	4.2	94.84 X 3.53	ROR002-N / F-0900-1010-042
100	-0.036 -0.090	111.0	+0.000 +0.087	4.2	104.37 X 3.53	ROR002-N / F-1000-1110-042
110	-0.036 -0.090	121.0	+0.000 +0.100	4.2	113.89 X 3.53	ROR002-N / F-1100-1210-042
125	-0.043 -0.106	136.0	+0.000 +0.100	4.2	129.77 X 3.53	ROR002-N / F-1250-1360-042
140	-0.043 -0.106	151.0	+0.000 +0.100	4.2	145.64 X 3.53	ROR002-N / F-1400-1510-042
160	-0.043 -0.106	171.0	+0.000 +0.100	4.2	164.69 X 3.53	ROR002-N / F-1600-1710-042
180	-0.043 -0.106	191.0	+0.000 +0.115	4.2	183.74 X 3.53	ROR002-N / F-1800-1910-042
200	-0.050 -0.122	215.5	+0.000 +0.115	6.3	208.97 X 5.33	ROR002-N / F-2000-2155-063
220	-0.050 -0.122	235.5	+0.000 +0.115	6.3	227.97 X 5.33	ROR002-N / F-2200-2355-063
250	-0.050 -0.122	265.5	+0.000 +0.130	6.3	253.37 X 5.33	ROR002-N / F-2500-2655-063
280	-0.056 -0.137	301.0	+0.000 +0.130	8.1	291.47 X 6.99	ROR002-N / F-2800-3010-081