

ROD SEAL

RS054



Features:

Rod seal profile RS054 is a seal set consist of five chevron ring (3 fabric reinforced and 2 rubber rings) or three chevron ring (2 fabric reinforced and 1 rubber ring) and a header and a pressure ring.

Composition:

SEAL COMBINATION	HEADER RING COMPOUND	CHEVRON V SEAL (FABRIC)	RUBBER V SEAL	PRESSURE RING	TEMP. RANGE	WORKING PRESSURE (Max.)	SURFACE SPEED (Max.)
RS054-01	FR51	FR51	NB10	FR51/PA04	-20 to 100°C	400 Bar	0,5 m/s
RS054-02	FR52	FR52	VT01	FR52	-15 to 140°C	400 Bar	0,5 m/s

For compound detail please refer Royal seal compounds. (Section - III)

Properties:

- High resistance to extrusion due to fabric reinforced header ring
- Easy installation
- Long working life in extreme conditions

Application:

- Mobile Hydraulics
- Machine tools
- Agricultural equipment
- standard cylinders
- hydraulic presses
- iron and steel industry
- marine hydraulics

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



Extrusion gap dimension :

The gap dimension on the non-pressurised side of the seal is decisive for sealing function. Figures show the maximum radial clearance on each side using maximum gland bush groove inner dia and minimum rod dia considering respective tolerances.

Maximum permissible gap dimension (s)			
160 bar	260 bar	320 bar	400 bar
0,32	0,22	0,20	0,17

Minimum chamfer C:

DN - dN	Up to 12	12.1 to 15	15.1 to 20	20.1 to 25	25.1 to 30	30.1 and above
C	4.0	5.0	6.0	7.5	8.0	10.0

Fitting:

RS054 is very easy to fit. Careful fitting of the seal is a prerequisite for its perfect functioning.

Ordering format:

Please mention ROYAL order code in your order.

Example: Metric Size 25.00 X 37.00 X 22.50

Order code is **RS054-M-01-025.00 X 037.00 X 22.50**

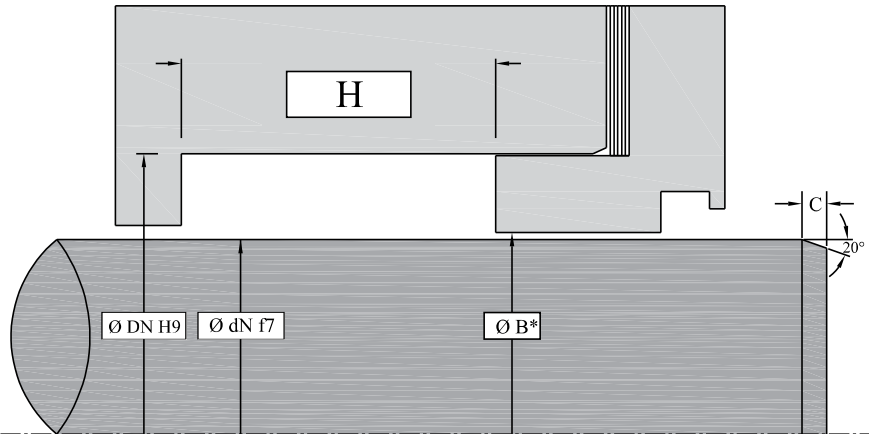
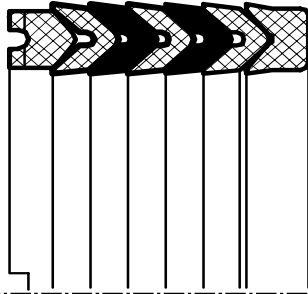
Example: Metric Size 25.00 X 37.00 X 22.50

Order code is **RS054-M-02-025.00 X 037.00 X 22.50**

Please contact ROYAL at info@royalcomposites.co.in / info@royalseals.co.in if your required size is not mentioned in Royal standard size list

All edges should be smooth and burr free.

HOUSING DESIGN RS054



* FOR Ø B Refer to Maximum permissible gap (S) table considering the eccentricity of operating condition

ROYAL STANDARD SIZE LIST

ØdN (h9)	ØDN (H9)	H (+0.30)	ORDER CODE
25.00	37.00	22.50	RS054-M-01-025.00 X 037.00 X 22.50
28.00	40.00	22.50	RS054-M-01-028.00 X 040.00 X 22.50
32.00	47.00	22.50	RS054-M-01-032.00 X 047.00 X 22.50
35.00	50.00	22.50	RS054-M-01-035.00 X 050.00 X 22.50
36.00	48.00	22.50	RS054-M-01-036.00 X 048.00 X 22.50
36.00	51.00	22.50	RS054-M-01-036.00 X 051.00 X 22.50
40.00	55.00	22.50	RS054-M-01-040.00 X 055.00 X 22.50
40.00	56.00	26.00	RS054-M-01-040.00 X 056.00 X 26.00
45.00	60.00	22.50	RS054-M-01-045.00 X 060.00 X 22.50
45.00	63.00	30.00	RS054-M-01-045.00 X 063.00 X 30.00
50.00	70.00	30.00	RS054-M-01-050.00 X 070.00 X 30.00
55.00	70.00	35.00	RS054-M-01-055.00 X 070.00 X 35.00
55.00	75.00	30.00	RS054-M-01-055.00 X 075.00 X 30.00
56.00	76.00	37.00	RS054-M-01-056.00 X 076.00 X 37.00
60.00	80.00	37.00	RS054-M-01-060.00 X 080.00 X 37.00
63.00	83.00	37.00	RS054-M-01-063.00 X 083.00 X 37.00
63.00	88.00	37.00	RS054-M-01-063.00 X 088.00 X 37.00
65.00	45.00	15.00	RS054-M-01-065.00 X 045.00 X 15.00
70.00	90.00	9.50	RS054-M-01-070.00 X 090.00 X 09.50
70.00	90.00	40.00	RS054-M-01-070.00 X 090.00 X 40.00
75.00	90.00	22.50	RS054-M-01-075.00 X 090.00 X 22.50
75.00	95.00	40.00	RS054-M-01-075.00 X 095.00 X 40.00
80.00	95.00	22.50	RS054-M-01-080.00 X 095.00 X 22.50
80.00	100.00	40.00	RS054-M-01-080.00 X 100.00 X 40.00
85.00	105.00	40.00	RS054-M-01-085.00 X 105.00 X 40.00
90.00	105.00	25.00	RS054-M-01-090.00 X 105.00 X 25.00
90.00	110.00	40.00	RS054-M-01-090.00 X 110.00 X 40.00
95.00	115.00	40.00	RS054-M-01-095.00 X 115.00 X 40.00
100.00	120.00	40.00	RS054-M-01-100.00 X 120.00 X 40.00
110.00	130.00	40.00	RS054-M-01-110.00 X 130.00 X 40.00

