

**ROD SEAL****RS063****Features:**

Rod seal profile RS063 consists of two piece seal set with one seal ring and one backup ring used as buffer seal before Royal RS027, RS036, RS045.

Composition:

SEAL COMBINATION	SEAL RING COMPOUND	AE RING COMPOUND	TEMP. RANGE	WORKING PRESSURE (Max.)	SURFACE SPEED (Max.)
RS063-01	PU02	PA15	-40 to 110°C	400 Bar	0.5 m/s

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

Properties:

- Easy installation primary seal
- No pressure built up between primary and secondary seal
- Low friction , free of stick slip
- High abrasion resistance.
- Wide temperature Range.
- Good thermal conductivity.
- Low wear and high extrusion resistance.

Application:

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

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) for Metric Sizes (mm)		
160 bar	260 bar	400 bar
0.20	0.17	0.15

Maximum permissible gap dimension (s) for Imperial Sizes (inch)		
160 bar	260 bar	400 bar
0.008	0.007	0.006

Installation:

RS063 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 40.00 X 55.50 X 6.30

Order code is **RS063-M-01-040.00 X 055.50 X 6.30**

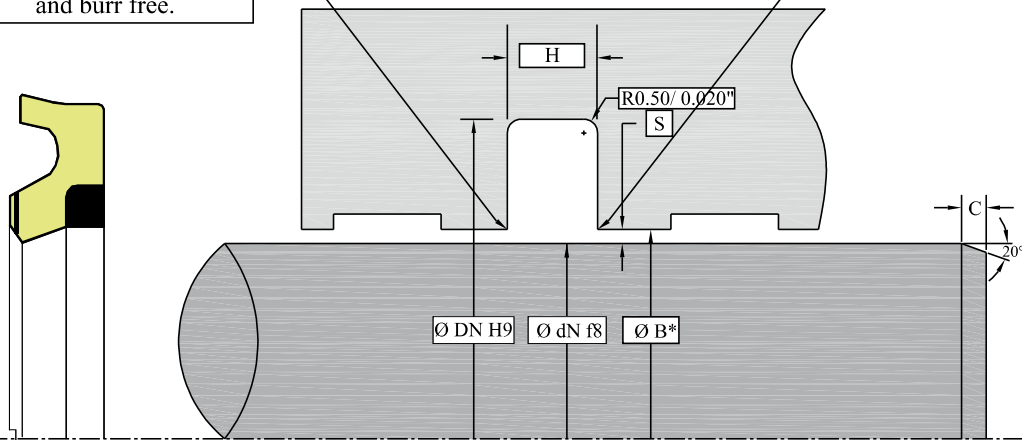
Example: Imperial size 1.500"X 2.062"X 0.140"

Order code is **RS063-I-01-01.500 X 02.062 X 0.140**



All edges should be smooth and burr free.

HOUSING DESIGN RS063



* 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 (+0.20)	ORDER CODE
40.00	55.50	6.30	RS063-M-01-040.00 X 055.50 X 6.30
45.00	60.50	6.30	RS063-M-01-045.00 X 060.50 X 6.30
50.00	65.50	6.30	RS063-M-01-050.00 X 065.50 X 6.30
55.00	70.50	6.30	RS063-M-01-055.00 X 070.50 X 6.30
56.00	71.50	6.30	RS063-M-01-056.00 X 071.50 X 6.30
60.00	75.50	6.30	RS063-M-01-060.00 X 075.50 X 6.30
63.00	78.50	6.30	RS063-M-01-063.00 X 078.50 X 6.30
65.00	80.50	6.30	RS063-M-01-065.00 X 080.50 X 6.30
70.00	85.50	6.30	RS063-M-01-070.00 X 085.50 X 6.30
75.00	90.50	6.30	RS063-M-01-075.00 X 090.50 X 6.30
80.00	95.50	6.30	RS063-M-01-080.00 X 095.50 X 6.30
85.00	100.50	6.30	RS063-M-01-085.00 X 100.50 X 6.30
90.00	105.50	6.30	RS063-M-01-090.00 X 105.50 X 6.30
95.00	110.50	6.30	RS063-M-01-095.00 X 110.50 X 6.30
100.00	115.00	6.30	RS063-M-01-100.00 X 115.00 X 6.30
100.00	115.50	6.30	RS063-M-01-100.00 X 115.50 X 6.30
105.00	120.50	6.30	RS063-M-01-105.00 X 120.50 X 6.30
108.00	123.50	6.30	RS063-M-01-108.00 X 123.50 X 6.30
110.00	125.50	6.30	RS063-M-01-110.00 X 125.50 X 6.30
115.00	130.50	6.30	RS063-M-01-115.00 X 130.50 X 6.30
118.00	133.50	6.30	RS063-M-01-118.00 X 133.50 X 6.30
120.00	135.50	6.30	RS063-M-01-120.00 X 135.50 X 6.30
125.00	140.50	6.30	RS063-M-01-125.00 X 140.50 X 6.30
130.00	145.50	6.30	RS063-M-01-130.00 X 145.50 X 6.30
133.00	148.50	6.30	RS063-M-01-133.00 X 148.50 X 6.30
135.00	150.50	6.30	RS063-M-01-135.00 X 150.50 X 6.30
140.00	155.50	6.30	RS063-M-01-140.00 X 155.50 X 6.30
142.00	157.50	6.30	RS063-M-01-142.00 X 157.50 X 6.30
143.00	158.50	6.30	RS063-M-01-143.00 X 158.50 X 6.30
145.00	160.50	6.30	RS063-M-01-145.00 X 160.50 X 6.30

