



K38 is a single acting rod seal with symmetrical lips and an additional sealing lip which improves the leakage behaviour and at the same time, prevents the entry of dirt from the wiper side.

PRODUCT ADVANTAGES

- Superior sealing effect with the secondary lip
- Low axial housing heights
- Secondary sealing lip provides extra protection against the ingress of dirt particles
- Easy assembly into closed grooves
- Good sealing performance even at low pressures
- Wide range of dimensions

APPLICATION

Construction machinery, fork-lift trucks, injection moulding machines, agricultural machinery, mobile hydraulics, standard cylinders, loading platforms and telescopic cylinders.

MATERIAL	CODE
PU 94 SHORE A	PU9401

OPERATING CONDITIONS

MEDIA	Mineral oil (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-30°C +100°C	+5°C +50°C	-30°C +40°C
PRESSURE	≤400 Bar	≤400 Bar	≤400 Bar
SPEED	≤0.5 m/sec	≤0.5 m/sec	≤0.5 m/sec

Note: The above data are maximum values and cannot be used at the same time.

SURFACE ROUGHNESS

		Ra	Rmax
Sliding Surface	Ød	≤0.4 µm	≤3.2 µm
Groove Base	ØD	≤1.6 µm	≤10 µm
Groove Flanks	B	≤3.2 µm	≤16 µm

Note: It is recommended to have 50% to 90% of the working surface material contact area value

INSTALLATION

Easily assembled into closed grooves according to the minimum diameter values that are given in the below table. Open grooves or special assembly tools should be used for the values that are outside this table. Before installation the sealing element must be oiled with system oil.

MINIMUM DIAMETER VALUES FOR CLOSED TYPE OF GROOVES

(D-d)/2 (mm)	4	5	6	7.7	10	12.5	15
d min (mm)	25	30	40	50	80	100	105

NOTES

The permissible sealing gap values of K38 rod seal is given in the below table.

PERMISSIBLE SEALING GAP

	Smax (mm)		
t=(D-d)/2 (mm)	150 Bar	250 Bar	400 Bar
t≤5	0.30	0.20	0.15
t>5	0.35	0.25	0.20

Note: The largest sealing gap value occurring on the non-pressurized side of the seal does have a vital importance for the function of the seal and in this respect it is quite important to use the S value lower than the above indicated numbers.