



K32 is a two piece single acting rod seal which consists of one elastomeric sealing element specially designed with additional sealing lip and one thermoplastic back-up ring.

PRODUCT ADVANTAGES

- Superior sealing effect with the secondary lip
- High wear resistant
- Secondary sealing lip provides extra protection against the ingress of dirt particles.
- Improved sealing gap due to the active back-up ring
- Simple groove design

APPLICATION

Construction machinery, fork-lift trucks, injection moulding machines, agricultural machinery, mining equipment and standard cylinders.

MATERIAL		CODE
PU	94 SHORE A	PU9401
POM		PM9901

OPERATING CONDITIONS

MEDIA	Mineral oils (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 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	7.5	10	12.5	15
d min (mm)	25	30	40	50	80	100	105

NOTES

The permissible sealing gap values of K32 rod seal is given in the below table.

PERMISSIBLE SEALING GAP

Pressure (Bar)	Smax (mm)
150	1.0
250	0.8
400	0.6

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.