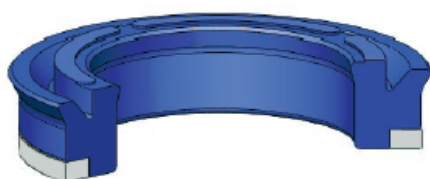


K40

K40 PISTON SEAL



K40 is a two piece single acting piston seal which consists of asymmetrical profile with pressure relieving grooves and a thermoplastic back-up ring.

PRODUCT ADVANTAGES

- Superior static and dynamic sealing effect
- Improved sealing gap due to the active back-up ring
- Relief grooves against dynamic pressure
- Easy assembly into the closed groove
- Simple groove design
- Highly wear resistant

APPLICATION

Heavy duty cylinders, scrap cutters and hydraulic jacks.

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	≤3.2 µm
Groove Base	Ød	≤1.6 µm	≤10 µm
Groove Flanks	B	≤4.0 µm	≤16 µm

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

INSTALLATION

Easily assembled into one piece piston. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation all individual parts of the seal must be oiled with system oil.

NOTES

The permissible sealing gap values of K40 piston seal is given in the below table.

PERMISSIBLE SEALING GAP	
Pressure (Bar)	Smax (mm)
100	1.0
150	0.8
250	0.7
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.