



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 thanks to the active back-up ring
- Relief grooves against dynamic pressure
- Easy assembly into the closed groove
- Simple groove design
- High wear resistant

#### APPLICATION

Heavy duty cylinders, scrap cutters and hydraulic jacks.

MATERIAL	CODE	
PU	94 SHORE A	PU9401
POM		PM9901

#### OPERATING CONDITIONS

<b>MEDIA</b>	Mineral oils (DIN 51524)	HFA and HFB	HFC
<b>TEMPERATURE</b>	-30°C 100°C	+5°C +50°C	-30°C +40°C
<b>PRESSURE</b>	≤400 Bar	≤400 Bar	≤400 Bar
<b>SPEED</b>	≤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
<b>Sliding Surface</b>	∅D	≤0.4 μm	≤3.2 μm
<b>Groove Base</b>	∅d	≤1.6 μm	≤10 μm
<b>Groove Flanks</b>	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 is vital for the function and in this respect it is quite important to use the S value lower than the above indicated numbers.*