



K37 is a two piece single acting rod seal which consists of a reinforced cotton fabric and nitrile rubber vulcanized together forming an integral sealing element and one thermoplastic back-up ring.

PRODUCT ADVANTAGES

- Functions well even with poor surfaces
- Reinforced cotton fabric base prevents the seal from extrusion
- Good sealing effect at low pressures
- Improved sealing gap due to the active back-up ring

APPLICATION

Mining equipment, after market, mobile hydraulics, presses and standard cylinders.

MATERIAL	CODE
NBR 80 SHORE A	NB8001
COTTON FABRIC NBR	NB8008
POM	PM9901

OPERATING CONDITIONS

MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-30°C +105°C	+5°C +60°C	-30°C +60°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	∅d	≤0.4 μm	≤3.2 μm
Groove Base	∅D	≤1.8 μm	≤6.3 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

K37 is to be assembled into open grooves. 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 K37 rod seal is given in the below table.

PERMISSIBLE SEALING GAP

Pressure (Bar)	Smax (mm)
150	0.4
250	0.3
400	0.2

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.