



K04 is a seven piece single acting sealing set which consists of one reinforced cotton fabric backup ring, one thermoplastic header ring, three reinforced cotton fabric middle rings, and two elastomeric nitrile rubber middle rings.

PRODUCT ADVANTAGES

- Adjustable seal housing height due to the reason of being used in open grooves.
- Functions even with poor surfaces
- Robust seal
- Easy installation and removal
- Long service life
- Able to work until the maintenance of continuity systems because of the adjustable housing
- Very good sealing performance both in high and low pressures

APPLICATION

Especially used in hard working conditions such as iron and steel industry, mining equipment, marine hydraulics, scrap cutters and special cylinders where the actual conditions are difficult to predict.

MATERIAL		CODE
NBR	90 SHORE A	NB9001
COTTON FABRIC NBR		NB8008
POM		PM9903

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	Ød	≤0.4 µm	≤3.2 µm
Groove Base	ØD	≤1.6 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

Being assembled in adjustable housings, the groove housing should have an adjustability of 7.5% of the seal height. If there is a requirement of being used in closed housings, individual parts should be cut with 45° angle and staggered by 75° angle at installation. When strongly squeezed, the flexibility of the sealing set may be substantially reduced. This could cause excessive friction force, high wear and vibrated operating under low pressures. 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

For special applications that require high temperatures, our seal can be manufactured in the following configuration, reinforced cotton fabric with FKM for header and middle rings and special mixture of PTFE backup ring. Permissible sealing gap S value should not be above 0.15 mm. For inner diameters above 200 mm, all the middle rings are produced from reinforced cotton fabric with NBR material. Additional middle rings can be used depending on the application.

