



K15 is a two piece double acting sealing set which consists of a special designed polyurethane seal ring and an o-ring as energizing element.

PRODUCT ADVANTAGES

- High static and dynamic sealing effect
- Low axial housing heights
- Simple groove design, one-piece piston possible
- High abrasion resistance

APPLICATION

Light to medium duty industrial machinery, injection moulding machines, cranes and loading platforms.

MATERIAL	CODE	
NBR	70 SHORE A	NB7001
PU	95 SHORE A	PU9501

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	≤250 Bar	≤250 Bar	≤250 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.

ROUGHNESS SURFACE		Ra	Rmax
Sliding Surface	∅D	≤0.4 μm	≤3.2 μm
Groove Base	∅d	≤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

Easily assembled on one-piece piston. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the sealing element must be oiled with system oil.

NOTES

It is recommended to use with two piston guide rings in long stroke cylinders, one guide ring in short stroke and under low radial loads. The permissible sealing gap values of K15 piston seal is given in the below table.

PERMISSIBLE SEALING GAP

B (mm)	Smax (mm)
3.2	0.25
4.2	0.25
6.3	0.3
8.1	0.3

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.