



K18 is a five piece double acting compact seal consisting of one elastomeric nitrile rubber sealing element, two polyester elastomer back-up rings on both sides to prevent extrusion into the sealing gap and two special profil guide rings made of thermoplastic to absorb transverse forces.

#### PRODUCT ADVANTAGES

- Superior sealing performance
- Economic sealing and guiding solution
- Simple groove design, one-piece piston possible
- Long service life
- Simple snap installation

#### APPLICATION

Construction machinery, fork-lift trucks, injection moulding machines, agricultural machinery, cranes and standard cylinders.

MATERIAL		CODE
NBR	80 SHORE A	NB8001
TPE		TP7301
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	≤4.0 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 into one-piece piston because of the back-up rings and guide rings are being produced in split forms. 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

For special applications that require high temperatures, piston seal can be manufactured in FKM and PTFE material.