



K518 is a five piece double acting compact seal which consists of one elastomeric nitrile rubber sealing element, two polyether elastomer back-up rings on both sides to prevent extrusion into the sealing gap and two special profiled guide rings produced from thermoplastic to absorb transverse forces.

PRODUCT ADVANTAGES

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

APPLICATION

Mobile hydraulics, back-hoe loaders, fork-lift trucks, agricultural machinery, standard cylinders.

MATERIAL		CODE
NBR	80 SHORE A	NB8001
POM		PM9905
TPE		TP7301

OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-30°C +105°C	+5°C +60°C	-20°C +50°C
PRESSURE	≤400 Bar	≤400 Bar	≤400 Bar
SPEED	≤0.5 m/sn	≤0.5 m/sn	≤0.5 m/sn

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	≤4.0 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

Easily assembled into one-piece piston because the back-up rings and guide rings are 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 is manufactured in FKM and PTFE material.