



K501 is a two piece double acting piston seal consisting of a thermoplastic sealing element and one energizer elastomer ring.

ADVANTAGES

- Excellent sealing performance under static and dynamic applications
- Simple groove design
- Easy fit without installation tool
- Superior sealing performance at high and variable pressure levels
- Longer service life due to high abrasion resistance
- Excellent sealing at high surface roughness
- Outstanding resistance to pressure shocks

APPLICATION

Heavy duty cylinders and construction machinery.

MATERIAL		CODE
NBR	70 SHORE A	NB7001
PA		PA9904

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	≤500 Bar	≤500 Bar	≤500 Bar
SPEED	≤1 m/sn	≤1 m/sn	≤1 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 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

Easy installation into one-piece piston head.

Sealing elements must be pre-lubed with system oil before installation.

NOTES

It is recommended to use with minimum two piston guide rings in long-stroke cylinders, minimum one guide ring in short stroke and under low radial loads.

PERMISSIBLE SEALING GAP

B (mm)	Smax (mm)
4.2	0.35
6.3	0.50
8.1	0.60

Note: All the above mentioned "S" values are maximum and it's vital to use lower values for system security.