



K98 is a single acting piston - rod seal and designed to have symmetrical lips in order to be used both for rod and piston applications. O-ring acts as a spring and provides sealing contact under low pressures and shock pressures.

PRODUCT ADVANTAGES

- Good sealing performance under low pressures and shock pressures
- Superior static and dynamic sealing effect
- Easy assembly into closed grooves
- Simple groove design
- Economical sealing solution

APPLICATION

Fork-lift trucks, injection moulding machines, agricultural machinery and standard cylinders.

MATERIAL		CODE
NBR	70 SHORE A	NB7001
PU	92 SHORE A	PU9201

OPERATING CONDITIONS			
MEDIA	Mineral oils (DIN 51524)	HFA and HFB	HFC
TEMPERATURE	-30°C +100°C	+5°C +50°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	≤3.2 µm
Groove Base	ØD	≤1.6 µm	≤10 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 closed grooves according to the minimum diameter values that are given in the below table. Open grooves or special assembly tools should be used for the values that are outside this table. It is very important that the assembly tools must be of soft material and have no sharp edges. Before installation the wiper must be oiled with system oil.

MINIMUM DIAMETER VALUES FOR CLOSED TYPE OF GROOVES

(D-d)/2 (mm)	4	5	6	7.7	10	12.5	15
dmin (mm)	25	30	40	50	80	100	105

NOTES

The permissible sealing gap values of K98 piston -rod seal is given in the below table.

PERMISSIBLE SEALING GAP

t=(D-d)/2	Smax		Smax (mm)
	150 Bar	250 Bar	400 Bar
t≤5	0.30	0.20	0.15
t≤5	0.35	0.25	0.20

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.