

K22 is a single acting rod seal designed to have inner lip shorter than the outer lip in order to be used for rod applications.

PRODUCT ADVANTAGES

- Superior static and dynamic sealing effect
- Wide range of dimensions
- · Easy assembly into closed grooves
- Simple groove design
- Economical sealing solution

APPLICATION

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

MATERIAL		CODE
NBR	90 SHORE A	NB9001
PU	92 SHORE A	PU9201

OPERATING CONDITIONS					
NBR					
MEDIA	Mineral oils	HFA and	HFC		
	(D I N 51524)	HFB			
TEMPERATURE	-30°C +105°C	+5°C +60°C	-30°C +60°C		
PRESSURE	≤150 Bar	≤150 Bar	≤150 Bar		
SPEED	≤0.5 m/sec	≤0.5 m/sec	≤0.5 m/sec		

PU			
MEDIA	Mineral oils	HFA and	HFC
	(D I N 51524)	HFB	
TEMPERATURE	-30°C	+5°C	-30°C
	+100°C	+50°C	+40°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	Ød	≤0.4 µm	≤3.2 µm
Groove Base	ØD	≤1.6 µm	≤10 µm
Groove Flanks	В	≤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 rod seal must be oiled with system oil.

MINUMU	M DIAM	ETER V	ALUES F	OR CLOS	ED TYPE	OF GROO	OVES
(D-d)/2 (mm)	4	5	6	7.7	10	12.5	15
d min (mm)	25	30	40	50	80	100	105

NOTES

For special applications that require high temperatures, K22 can be produced in FKM material. The permissible sealing gap values of K22 is given below.

PERMISSIBLE SEALING GAP				
NBR	Smax (x (mm)		
t=(D-d)/2 (mm)	50 Bar	100 Bar	150 Bar	
t≤5	0.40	0.20	0.10	
t>5	0.45	0.25	0.15	

PU		Smax (mm)		
t=(D-d)/2 (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.