



FR200 is a single acting rod seal, which is designed to ensure low friction force, reliable backpumping ability and superior sealing.

**PRODUCT ADVANTAGES**

- Superior static and dynamic sealing
- Low friction capability
- Increased extrusion resistance
- Reliable backpumping ability
- Operates well with a double wiper without a problem

**APPLICATION**

Construction machinery , fork–lift trucks , injection moulding machines , all hydraulic applications that need low friction force, metal working machines

MATERIAL		CODE	
PU		94 SHORE A	
		PU9401	
OPERATING CONDITIONS			
MEDIA	Mineral oils(DIN 51524)	HFA and HFB	HFC
TEMPERATURE	−35°C +100°C	+5°C +50°C	−30°C +40°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	0.05≤..≤0.4 µm	≤3.2 µm
Groove Base ØD	0.20≤..≤1.6 µm	≤10 µm
Groove Flanks B	0.20≤..≤3.2 µm	≤16 µm

*Note: It is recommended to have 50% to 90% of the working surface material contact area value.*

**INSTALLATION**

Existing table values of K22 rod sealing element should be used to decide closed groove dimensions. 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.

PERMISSIBLE SEALING GAP			
	Smax (mm)		
t=(D−d)/2(mm)	150 Bar	250 Bar	400 Bar
t≤5	0.50	0.45	0.25
t>5	0.60	0.45	0.35

*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.*