



K49 is a two piece double acting sealing set which consists of a special design polyurethane seal ring and a NBR elastomer ring as energizer.

PRODUCT ADVANTAGES

- Superior static and dynamic sealing
- Ability to move without vibration even at low running speeds
- No twisting in the house due to rectangular profile
- Standardized housing according to ISO 7425-1
- Easy installation
- Low axial housing heights

APPLICATION

- Construction machinery
- Agricultural machinery
- Injection molding machines
- General industrial applications

| MATERIAL | | CODE |
|----------|------------|--------|
| PU | 60 SHORE D | PU6001 |
| NBR | 80 SHORE A | NB8001 |

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 |

Not: 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 | ≤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 on one-piece piston. 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

It is recommended choosing suitable material and quantity for guiding element regarding the purpose of application.

PERMISSIBLE SEALING GAP

| B (mm) | Smax (mm) | | |
|--------|-----------|---------|---------|
| | 150 Bar | 250 Bar | 400 Bar |
| 3.2 | 0.30 | 0.20 | - |
| 4.2 | 0.40 | 0.30 | - |
| 6.3 | 0.50 | 0.40 | 0.25 |
| 8.1 | 0.60 | 0.50 | 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 an in this respect it is quite important to use the S value lower than the above indicated numbers.