

KPOR 30

Description

Product group: Piston seal
Design: POR PTFE seal with an o-ring energising element
Profil no.: 30
Specification: Z suitable for two-sided pressure load
Seal material: PTFE 00 9807
O-ring material: NBR 70 0100

Operational application limits

Pressure (MPa): ≤ 40
Temperature (°C): -30 to +100
Running speed (m/s): ≤ 15

Media

Hydraulic oils acc. to DIN 51524 Part 1 – 3, lubricating oils, mineral oil based lubricating greases, highly non-flammable hydraulic fluids HFA, HFB, HFC acc. to VDMA 24317

Function

The KPOR seals consist of a PTFE sealing element which is energised by an o-ring. This results in an exceptionally good sealing function under high loads and good static sealing performance. The KPOR 30 design is a double acting piston seal.

Installation

For small diameters, axially accessible installation housing is required. For larger pistons, the seals can be installed in closed installation housings. Subsequent calibration is necessary.

Remarks

The standard for this design is a PTFE-Bronze/NBR 70 combination. Depending on the area of application, other materials such as PTFE-Glass, PTFE-Graphite and PTFE-Carbon for the seal element and EPDM, FKM, VMQ etc. for the energising element are available. Sufficient guiding of the piston using suitable guide elements is necessary.

