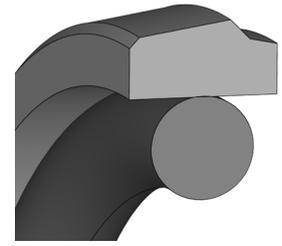


KPOR131



DESCRIPTION

Product group: piston seal
Design: POR PTFE seal with an o-ring energising element
Profile no.: 131
Specification: E suitable for one-sided pressure load
Seal material: PTFE
O-ring material: NBR 70

MATERIAL

PTFE bronze filled

OPERATIONAL APPLICATION LIMITS

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

The values indicated here are maximum values. All of them must not be achieved simultaneously.

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

APPLICATION

Mobile hydraulics
 Construction machinery (excavators, wheel loaders, dumper trucks), miniexcavators, lifting tailgates, agricultural machines

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(farm tractors, front loaders, attachments, combines), utility vehicles and ground conveyors (fork lifts).

Industrial hydraulics

Machine tools, clamping devices, signal transmission, transport and conveyor systems, presses, handling and assembly technology as well as testing and simulation technology

Unlike conventional sealing materials, the static and dynamic friction coefficients of PTFE compounds only differ to a marginal extent. In general, multiple factors are responsible for the resulting frictional forces. In addition to the conditions of use such as operating pressure, transverse rate and lubricant, the surface finishing and quality of the counterface also play a key role. The marginal difference between static and dynamic friction virtually rules out any risk of slip-stick effects in dynamic applications. Due to their geometry, the KPOR and SPOR 131 profiles can only be pressurised on one side. The KPOR 130 and SPOR 130 profiles are double-acting. The seals of the SPOR 130 and SPOR 131 profiles are often used as a primary or secondary seal in a tandem arrangement in series or in combination with other sealing elements in order to create a stable seal.

