



# WEPO

WEPO is a PTFE rotary shaft seal with a spring-energised sealing lip and an O-ring as static housing sealing, Non-mould production.

## DESCRIPTION

**Product group:** rotary shaft seal

**Design:** EPO = WDR PTFE + O-ring

**Material:** PTFE/carbon/graphite, PTFE 00 9809

**Colour:** black

**O-ring:** FKM 80

**Tension spring:** stainless spring steel 1.4571 (SAE 316Ti)

## AREAS OF APPLICATION

For sealing of rotating and pivoting shafts. reciprocating and combined (lifting and rotating) movements.

## FUNCTION

The WEPO is a single-action rotation seal with an outstanding lifespan. Its very good dynamic sealing action is supported by a pre-tension spring designed specially for this purpose. The O-ring placed on the outside diameter performs a double function: axial sealing and the prevention of spiraling in the housing. Slight swelling of the FPM O-ring caused by the medium has no negative effect on the sealing function.

## MEDIA

- All types of hydraulic oils
- Water
- Water and oil emulsion
- Hot air
- Broadest chemical resistance to almost all aggressive media

## OPERATIONAL APPLICATION LIMITS

Pressure (MPa/bar): 1/10

Temperature (°C): -20 to +205

Peripheral speed (m/s): ≤ 15

Depending on the lubricating properties of the medium and the expected contamination, shaft hardness between 45 and 60 HRC is to be selected. At higher peripheral speeds, the surface hardness should not be below 55 HRC. The shaft surface must be spiral-free.

## INSTALLATION

The outside diameter of the PTFE component is produced with a plus tolerance and is centralized in the housing by press fitting. Axial protection must be undertaken on the non-pressure side in accordance with the operational pressure.

## REMARKS

The sizes mentioned on the following pages represent the standard dimensions. In addition, we are able to produce any other dimensions required. For operational conditions other than the standard applications, further PTFE compounds, springs made of other steel grades and O-rings made of other elastomers are available.

