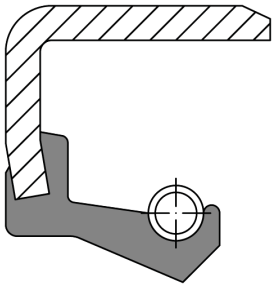
Rotary Seals

OS-B10



Description

- Metal OD
- Spring loaded sealing lip

Special features

- Modern sealing lip design for high dynamic sealing action
- Very firm and exact fit inside the housing due to metal-metal interference fit
- Be careful when using the product in connection with light metal housings, housings with increased surface roughness and applications with overpressure:
  Apply sealing aid to the outside diameter if necessary. A version with outside diameter coated
- with bore sealant is available on request.
  Can be combined with our axial seals AS-10 and V-rings

- **Applications e.g.:**
- Mechanical and apparatus engineering
- Agricultural machinery
- Construction machines
  Drive systems, industrial gearboxes, electric motors

Materials

Standard material

Elastomer	NBR 70 black
Spring	Spring steel according to DIN EN 10270-1
Metal case	Carbon steel according to DIN EN 10139

Special materials

Elastomer	FKM Silicon ACM HNBR CR EPDM
Spring	Stainless steel 1.4301
Metal case	Stainless steel 1.4301

Application parameters

for the standard materials combination

Temperature	-40°C to +100°C
Pressure	depressurized, max. 0.05 MPa
Shaft speed	acc. to chart „Operating parameters for rotary shaft seals“
Media	Mineral oil based lubricants, synthetic lubricants

When synthetic lubricants are used for which there is no empirical experience, test the compatibility in the laboratory or - better even - in practical trials.
The operating temperature should not exceed 80°C.

Design information

Shaft

Tolerance	ISO h11
Hardness	min. 45 HRC
Roughness	R_a = 0.2 - 0.8 µm R_z = 1 - 5 µm $R_{max} \leq$ 6.3 µm
Surface finish	free of orientation (lead free)

Housing bore

Tolerance	ISO H8
Roughness	R_a = 0.8 - 3.2 µm R_z = 6.3 - 16 µm $R_{max} \leq$ 16 µm

Installation

Please read our installation instructions.