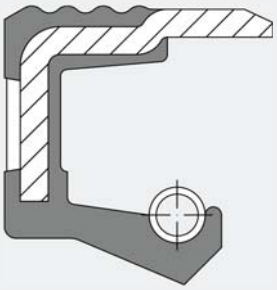
Rotary Seals

OS-BG10



Description

- Metal and rubber OD, ribbed
- Spring loaded sealing lip

Special features

- Combines the advantages of metal and elastomer OD:
- Very firm and exact fit inside the housing due to metal-metal interference fit
- Reliable static sealing inside housing
- Compensation of different thermal expansion
- Modern sealing lip design for high dynamic sealing action

Applications e.g.:

- Mechanical engineering
- Machine tools
- Drive systems

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 in „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} ≤ 6.3 µm
Surface finish	free of orientation (lead free)

Housing bore

Tolerance	ISO H8
Roughness	R_a = 1.6- 6.3 µm
	R_z = 10 - 20 µm
	R_{max} ≤ 25 µm

Installation

Please read our installation instructions.