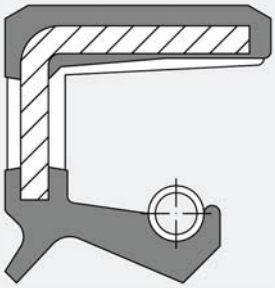
Rotary Seals

OS-A11



Description

- Elastomer-coated OD, flat
- Spring loaded sealing lip
- Protective lip against entry of contamination from outside (dust, dirt,...)
  ribbed OD available on request, type OS-G11

Special features

- Modern sealing lip design for high dynamic sealing action
- Reliable static sealing inside housing
- For housings with high thermal expansion, e.g., light metal housing
- For split housings
- For housings with increased surface roughness
- For sealing thin-body and gaseous media
- No risk of fretting corrosion
- Efficient protection against air side contaminations

Applications e.g.:

- Mechanical and apparatus engineering
- Agricultural machinery
- Construction machines
- Drive systems, industrial gearboxes, electric motors

Materials

Standard material

Elastomer	NBR 70 black
	(FKM 80 brown is standard for OS-F11)
Spring	Spring steel according to DIN EN 10270-1
Metal case	Carbon steel according to DIN EN 10139

Special materials

Elastomer	FKM
	Silicone
	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} ≤ 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.