

OS-D10



Description

- Double-acting radial shaft seal
- Two spring-loaded sealing lips
- Elastomer-coated OD, flat ribbed OD available on request, type OS-D11

Special features

- Separation of two media by just one seal
- Combination of 2 sealing lips in one component
- 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
- No risk of fretting corrosion

Applications e.g.:

- Separation of two media with rotating machine parts

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
Springs	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. 0.02 MPa
Shaft speed	max. 5 m/s , 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	$R_a = 0.2 - 0.8 \mu\text{m}$ $R_z = 1 - 5 \mu\text{m}$ $R_{\text{max}} \leq 6.3 \mu\text{m}$
Surface finish	free of orientation (lead free)

Housing bore

Tolerance	ISO H8
Roughness	$R_a = 1.6 - 6.3 \mu\text{m}$ $R_z = 10 - 20 \mu\text{m}$ $R_{\text{max}} \leq 25 \mu\text{m}$

Installation

Please read our installation instructions.