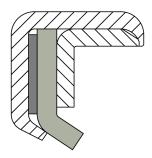
# **Rotary Seals**



## OS-PA31



## **Description**

- Pressure loadable radial shaft seal
- Metal OD
- Sealing lip made of PTFE
- Sealing lip with elastomer washer, clamped between 2 metal cases

## **Special features**

- Permits high shaft speeds
- High thermal resistance
- High chemical resistance
- Pressure loadable
- Applicable with insufficient lubrication and dry running
- Very low friction coefficient, stick-slip free running
- Non-moulded processing
- Small runs without mould cost possible
- Short delivery time
- 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.

# Applications e.g.:

- Chemical industry
- Mechanical and apparatus engineering
- Drive systems

### **Materials**

### Standard material

Sealing lip PTFE / carbon graphite

Metal case Stainless steel

Elastomer washer FKM

# **Special materials**

Sealing lip PTFE / glass fibre / MoS2

Metal case Standard steel

Elastomer washer Other elastomers on request

## **Application parameters**

for the standard materials combination

Temperature -90°C to +250°C
Pressure max. 1 MPa
Shaft speed max. 40 m/s

Media Mineral oil based lubricants,

synthetic lubricants,

many acids and lyes, solvents, water

The different permitted maximum values should always be seen in connection with all application parameters. The total load on the seal is the combination of individual values.

## **Design information**

#### **Shaft**

Tolerance ISO h11 min. 50 HRC Roughness  $R_a = 0.2 - 0.8 \mu m$   $R_z = 1 - 5 \mu m$ 

 $R_{\text{max}} \leq 6.3 \, \mu \text{m}$ 

Surface finish free of orientation (lead free)

# **Housing bore**

Tolerance ISO H8

Roughness  $R_a = 0.8 - 3.2 \mu m$ 

 $R_Z = 6.3 - 16 \mu m$  $R_{max} \le 16 \mu m$ 

### Installation

Please read our installation instructions.