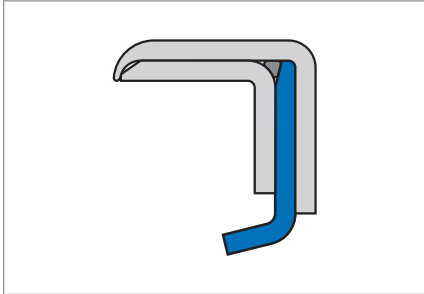


Simmerring B2PT



Product description

Design for extreme thermal and chemical loads, dry running, insufficient lubrication and meeting demands for stick-slip-free behaviour. Metal housing made from stainless steel, sealing lip made from PTFE 10/F56101.

Product advantages

- Special range of applications in general mechanical engineering and in the chemical industry
- High temperature resistance
- For dry running and insufficient lubrication
- High chemical resistance
- In case of requirements for stick/slip-free behaviour (Note: for limited requirements on dynamic sealing behaviour! Static sealing at the outer casing limited with low viscosity and gaseous media)

Product properties

- Outer casing: metal housing
- Sealing lip made of PTFE

Application

- Rotary joints
- Mixers
- Pumps
- Centrifuges

Material

| | |
|----------------------|---|
| Metal housing | Stainless steel as per material No. 1.4571 |
| Sealing lip | PTFE 10/F56101 carbon-filled, exactly centred and pre-stretched |
| O-Ring | Fluoro elastomer |

Operating conditions

| | |
|--------------|---|
| Media | Mineral oils, synthetic oils, greases, water, acids, alkalis, solvents, gases |
| T | -80 ... +200 °C |
| v | ≤30 m/s |
| p | ≤1 MPa |

Max. permissible values depend on the other operating conditions.

Fitting & installation

Shaft

| | |
|------------------|--|
| Tolerance | ISO h 11 |
| Runout | IT 8 |
| Roughness | $R_a = 0,2 \dots 0,8 \mu\text{m}$ $R_z = 1,0 \dots 5,0 \mu\text{m}$ $R_{max} \leq 6,3 \mu\text{m}$ |
| Hardness | 45 ... 60 HRC |
| Finish | No lead; preferably plunge ground |

Housing bore

| | |
|---|------------------------------------|
| Tolerance | ISO H8 |
| Roughness metal outer surface OD | $R_z = 6,3 \dots 16,0 \mu\text{m}$ |

Careful fitting according to DIN 3760 is a prerequisite for the correct function of the seal → Technical Manual.

Range of dimensions for shafts-Ø d1

| | |
|------------------------|---------------|
| Simmerring B2PT | 10 ... 125 mm |
|------------------------|---------------|