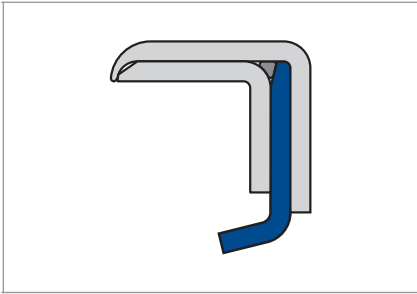


SIMMERRING B2PT



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	$R_a = 0,2 \dots 0,8 \mu\text{m}$
	$R_z = 1,0 \dots 5,0 \mu\text{m}$
	$R_{\text{max}} \leq 6,3 \mu\text{m}$
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
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