

HBrinker Mechanical Seal

Compressor seal

Mechanical Seal HBWRS



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Operating range

Shaft diameter: 25 ... 195 mm (1" ... 7.7")

Process gas pressure: up to 40 bar (580 PSI)

Required oil pressure: $P_{product} + \Delta p$ (1-3 bar, depending on sliding velocity)

Gas temperature: $t = -20\text{ }^{\circ}\text{C} \dots +200\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F} \dots +392\text{ }^{\circ}\text{F}$)

Oil temperature: $t = 30\text{ }^{\circ}\text{C} \dots 60\text{ }^{\circ}\text{C}$ ($86\text{ }^{\circ}\text{F} \dots 140\text{ }^{\circ}\text{F}$)

Sliding velocity: $v_g = 5 \dots 100\text{ m/s}$ ($16 \dots 328\text{ ft/s}$)

Oil viscosity: ISO VG32 + 46a



Materials

- Seal face: Silicon carbide
- Seat: Silicon carbide
- Secondary seals: FKM
- Metal parts: 1.4006 or other stainless steels

Other materials on request.

Features

- Oil-lubricated
- Bi-directional
- Externally pressurized
- Ready-to-fit cartridge unit
- Single, face bushing and double seal available
- Suitable for high speed
- Hydrodynamic grooves for increased operating capabilities and stabilized low leakage

Advantages

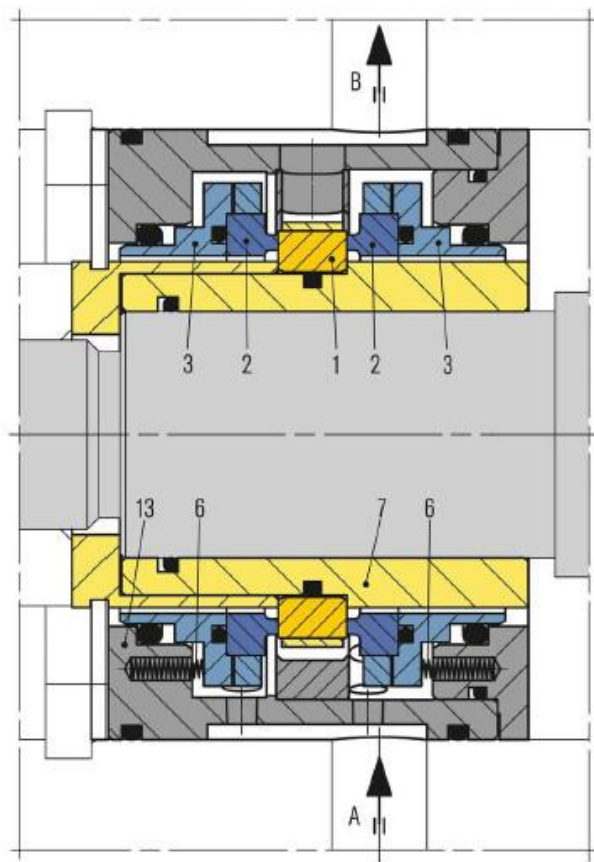
- Low oil consumption
- Rugged seat with bandage ensures reliable operation
- Wear-free operation by use of lift-off design
- Does not open if oil pressure drops

Recommended applications

- Oil and gas industry
- Refining technology
- Petrochemical industry
- Refrigerants
- Screw compressors
- Centrifugal compressors
- Geared compressors

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Item	Description
1	Seat, rotating
2	Seal face, stationary
3	Face housing
6	Spring
7	Shaft sleeve
13	Housing
A	Oil IN
B	Oil OUT