

# HBrinker Mechanical Seal

Compressor seal

Mechanical Seal HBWRS



**H-Brinker**

www.HBrinker.com



## Mechanical Seal HBWRS

### Operating range

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

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

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

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

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

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

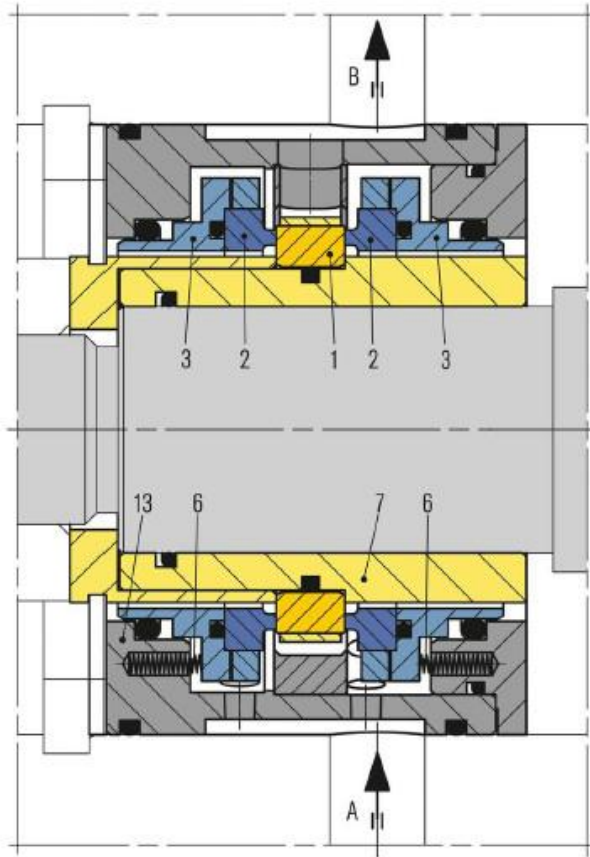
- Low oil consumption
- Rugged seat with bandage ensures reliable operation
- Wear-free operation by use of lift-off design
- Does not open if oil pressure drops

### 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