

HBrinker Mechanical Seal

Compressor seal

Mechanical Seal HBCoba



H-Brinker

www.HBrinker.com



Mechanical Seal HBCoba

Operating range

Shaft diameter: 27.2 ... 323.2 mm (1.07" ... 12.72")

Design pressure (mechanical integrity): $p = 0 \dots 70$ bar (0 ... 1000 PSI)

Normal operating pressure: $p = 2.7$ bar (39.16 PSI)

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

Sliding velocity: $v_g = 0 \dots 150$ m/s (0 ... 492 ft/s)

Dew point: No limitation

Features

- Gas-lubricated
- Bi-directional
- Ready-to-fit cartridge unit
- Self cleaning 3D gas grooves
- Aerostatic and aerodynamic lift-off

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Materials

- Seal face: Silicon carbide
- Seat: Ductile stainless steel
- Shaft sleeve: Stainless steel TC-coated
- Secondary seals: FKM
- Metal parts: 1.4006

Advantages

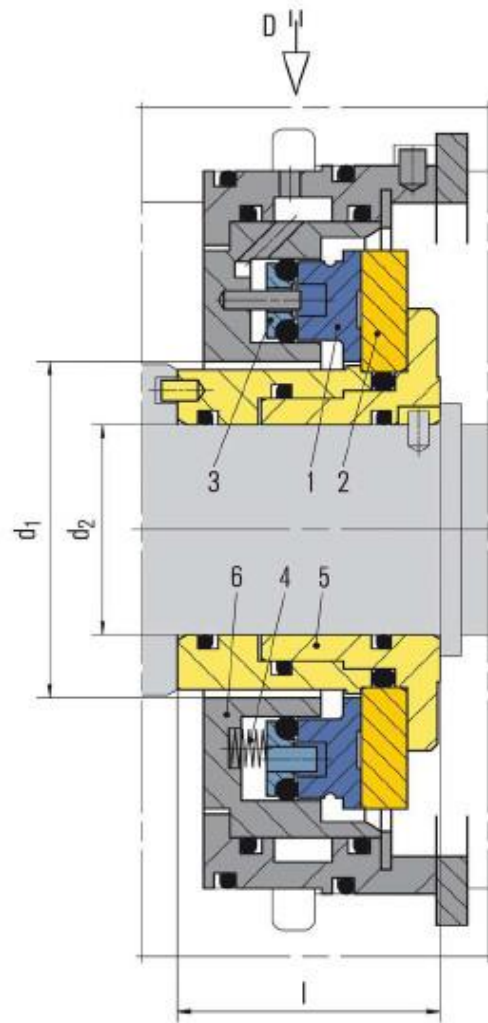
- Extremely low leakage
- Double arranged (co-axial) dry gas seal with just one pair of seal faces
- Insensitive to oil contamination due to its special design
- Wear-free, non-contacting operation in all conditions
- Insensitive to radial vibrations due to axial sealing gap
- Slow-roll or turning operation capable (static lift-off)
- No limits regarding dew point of separation gas (silicon carbide instead of carbon)
- Lower N₂ consumption than any other system
- N₂ can be switched off during standstill - the gap will close and still provide the best oil sealing performance
- Best in class oil sealing by extremely small sealing gap and sling effect of rotating ring

Recommended applications

- Pipelines
- Gas storages
- Oil and gas industry
- Chemical industry
- Power plants
- Centrifugal compressors
- Turbo expander
- Turbines
- Pumps
- Blower

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Item	Description
1	Seal face, stationary
2	Seat, rotating
3	Thrust ring
4	Spring
5	Shaft sleeve and seat retainer
6	Housing (size matched to installation space)
D	Separation gas