

# HBrinker Mechanical Seal

Compressor seal

Mechanical Seal HBGS



## Mechanical Seal HBGS

### Operating range

Shaft diameter:  $d = 24.5 \dots 406 \text{ mm}$  (1.14" ... 15.98")

Pressure:  $p = 0 \dots 160 \text{ bar}$  (2,320 PSI)

Design temperature:  $t = -46 \text{ }^\circ\text{C} \dots +230 \text{ }^\circ\text{C}$  (-51 °F ... +446 °F)

Sliding velocity:  $v_g = \text{up to } 227 \text{ m/s}$  (744 ft/s)

### Materials

- Seal face: Silicon carbide with DLC coating, Carbon graphite
- Seat: Silicon carbide with DLC coating
- Secondary seals: FKM
- Metal parts: 1.4006 or other stainless steels

Other materials on request..

### Features

- Gas-lubricated
- Uni-directional or bi-directional
- Ready-to-fit cartridge unit
- Single, double, tandem and tandem with intermediate labyrinth available
- Separation seals as labyrinths, carbon rings or CobraSeal are optionally available

### Advantages

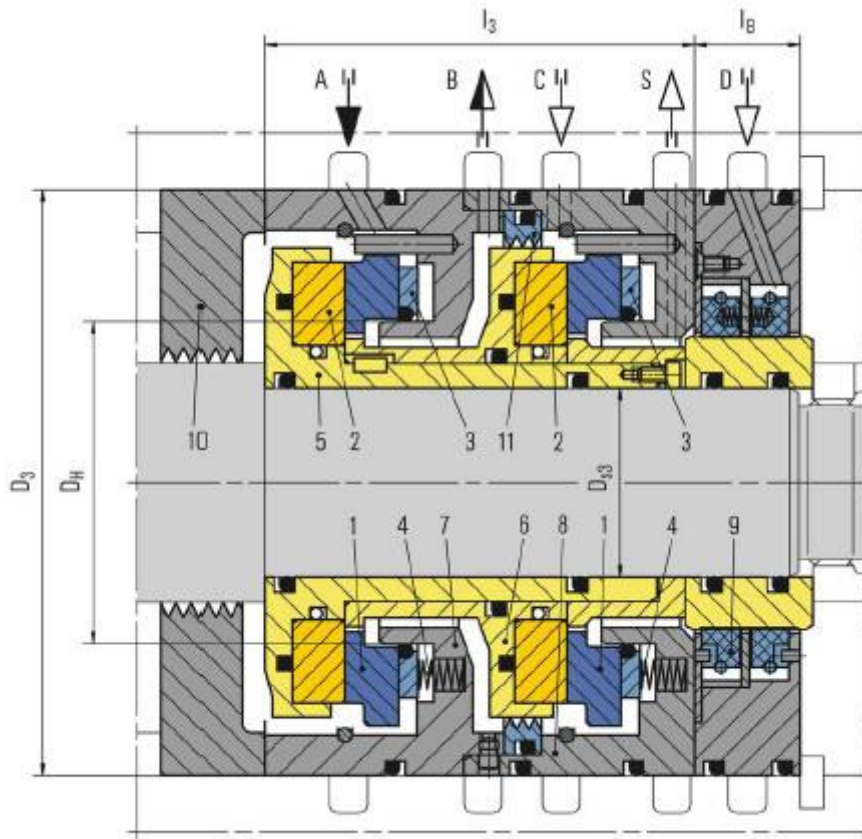
- Wear-free and contact-free operation
- Self-cleaning 3D gas grooves
- High gas film stiffness
- Secure cupped retainer for seat
- Available in various materials for optimized chemical resistance
- Proven, reliable and economical solution

### Recommended applications

- Oil and gas industry
- Refining technology
- Petrochemical industry
- Hydrocarbon gas
- Ammonia
- Nitrogen
- Air
- Centrifugal compressors
- Turbo expanders

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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	Intermediate sleeve
7,8	Housing (size matched to installation space)
9	Separation seal (CSR)
10	Labyrinth
11	Intermediate labyrinth
A	Primary seal gas supply
B	Primary vent
C	Secondary gas seal supply
S	Secondary vent
D	Separation gas supply