

HBrinker Mechanical Seal

Compressor seal

Mechanical Seal HBP GS



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Operating range

Shaft diameter: $D = 24.5 \dots 360 \text{ mm}$ (0.96" ... 14.17")

Pressure (static and dynamic): $p = \text{up to } 650 \text{ bar}$ (7.977 PSI)

Temperature: $t = -200 \text{ }^\circ\text{C} \dots +230 \text{ }^\circ\text{C}$ (-328 °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
- Seat: Silicon carbide with DLC coating
- Secondary seals: Polymer rings
- Metal parts: 1.4006, 1.4313-QT650, Inconel® or other stainless steels.

Other materials on request.

Features

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

Advantages

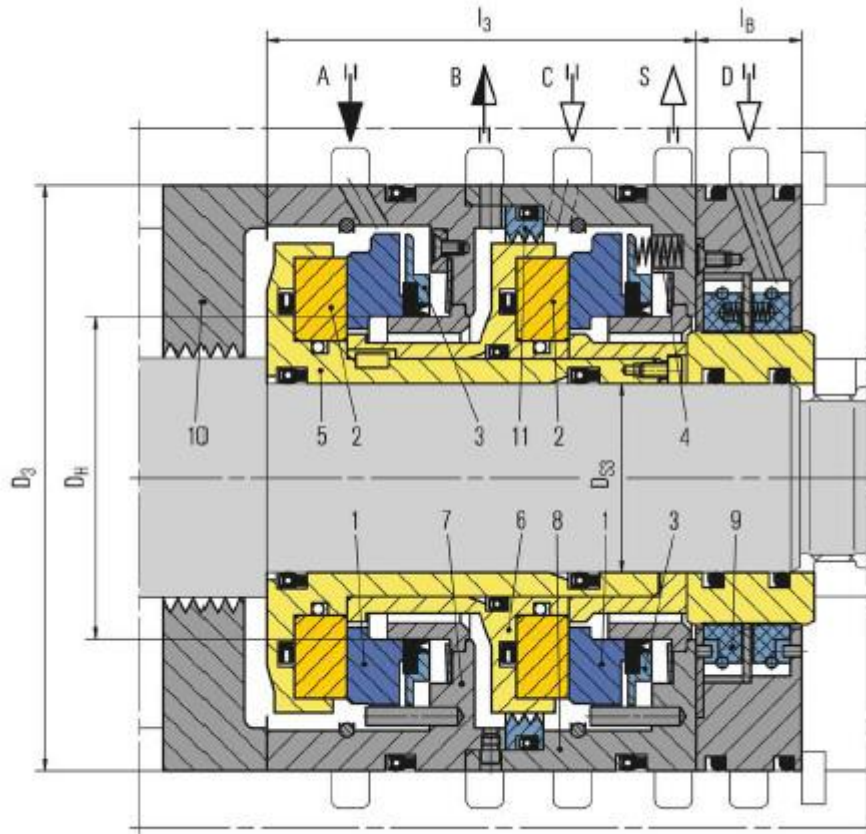
- Wear-free and contact-free operation
- Self-cleaning 3D gas grooves
- High gas film stiffness
- Secure cupped retainer for seat
- Available in various materials for optimized chemical resistance
- Proven, reliable and economical solution

Recommended applications

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

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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 (HBSR) |
| 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 |