

# HBrinker Mechanical Seal

Compressor seal

Mechanical Seal Cobra HBDGS



## Mechanical Seal Cobra HBDGS

### Operating range

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

Pressure (static and dynamic):  $p =$  from vacuum up to 160 bar (2,321 PSI)

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

Sliding velocity:  $v_g =$  up to 140 m/s (459 ft/s)

### Materials

- Stationary seal face: Silicon carbide with DLC-coating, DiamondFace-coating optional
- Rotating seal face (Seat): Silicon carbide with DLC-coating, DiamondFace-coating optional
- Secondary seals: FKM or other elastomers, depending on product gas composition
- Metal parts: 1.4006 or other stainless steels

### Features

- Gas-lubricated
- Bi-directional
- Ready-to-fit cartridge unit
- Available for following seal arrangements: single and tandem
- Co-axial primary seal
- Separation seals as CobraSeal, carbon rings or labyrinths optional

### Advantages

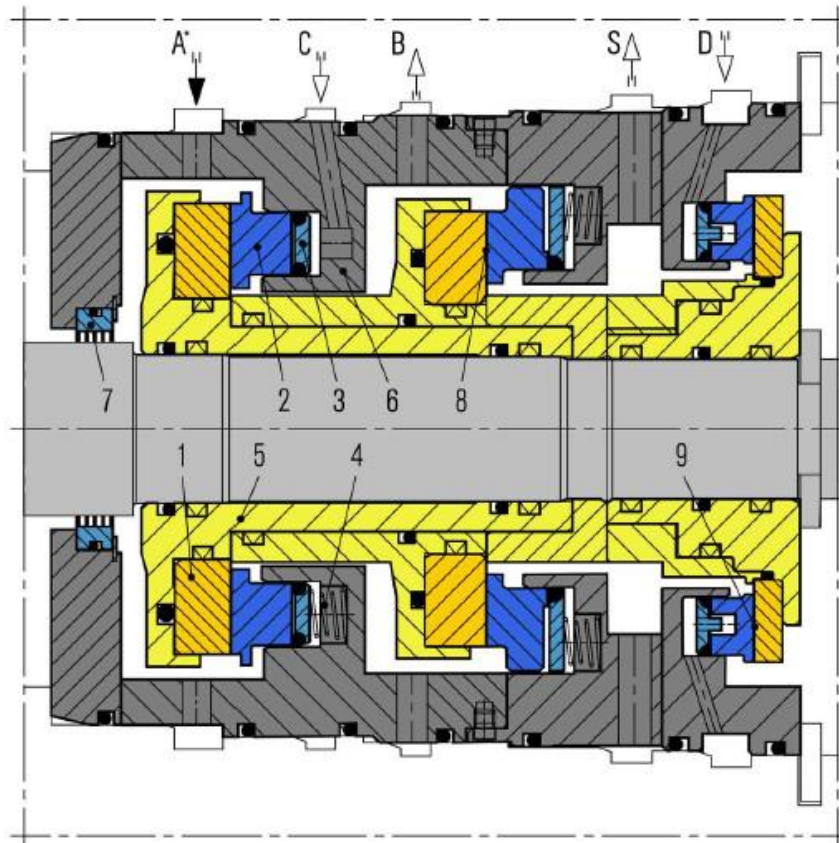
- No methane-/ process gas emissions
- Supplied with clean nitrogen (no dew point and dirt problems)
- Robust
- Offers higher safety than a double seal
- Upgrade-possibility of existing single, double and tandem seals
- No modification of the compressor necessary
- Efficient alternative to hermetically sealed systems
- For compressors with gas- and steam turbines, as well as with electric drive

### 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    | (Seat) Rotating seal face        |
| 2    | (Seal face) Stationary seal face |
| 3    | Thrust ring                      |
| 4    | Spring                           |
| 5    | Shaft sleeve                     |
| 6    | Housing                          |
| 7    | Labyrinth                        |
| 8    | DGS as seal on atmosphere side   |
| 9    | CobraSeal as separation seal     |
| A    | Buffer gas supply - optional     |
| B    | Primary vent                     |
| C    | Seal gas supply                  |
| D    | Separation gas supply            |
| S    | Secondary vent                   |