

HBrinker Mechanical Seal

Compressor seal

Mechanical Seal Cobra HBDGS



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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 $^{\circ}\text{F} \dots +446 \text{ }^{\circ}\text{F}$)

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

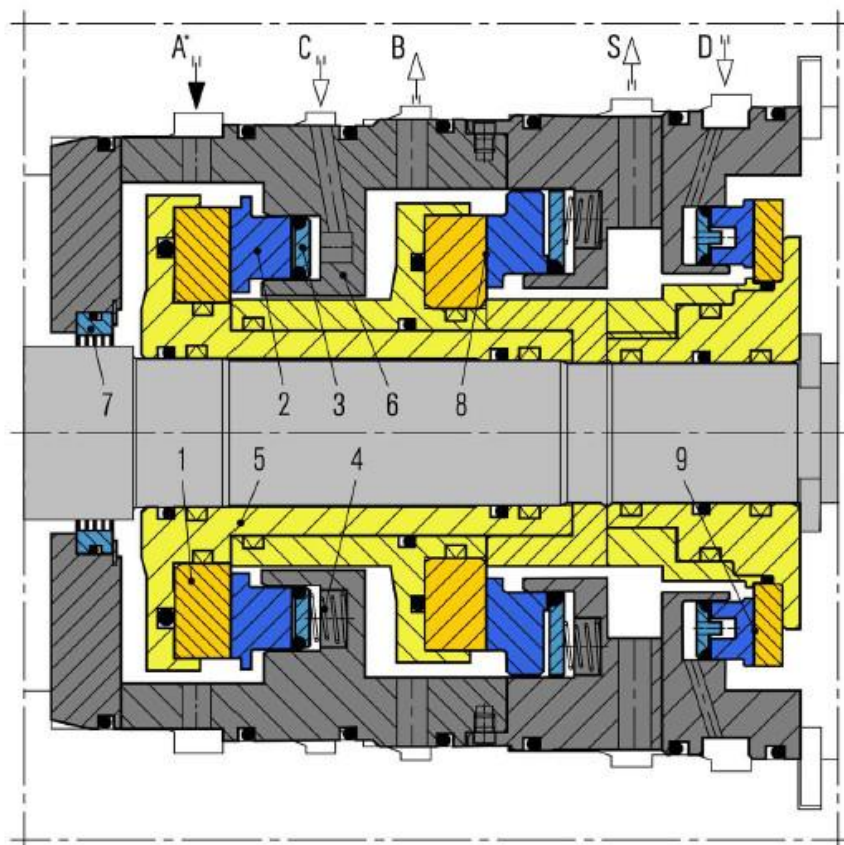
- No methane-/ process gas emissions
- Supplied with clean nitrogen (no dew point and dirt problems)
- Robust
- Offers higher safety than a double seal
- Upgrade-possibility of existing single, double and tandem seals
- No modification of the compressor necessary
- Efficient alternative to hermetically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