



Mechanical Seal HBDFP

Operating range

Shaft diameter: $d_1 = 120 \dots 250 \text{ mm}$ (4.72" ... 9.84")

Pressure: $p_1 = 70 \text{ bar}$ (1,015 PSI)

Temperature: $t = 300 \text{ }^\circ\text{C}$ (572 °F)

Sliding velocity: $v_g = 70 \text{ m/s}$ (330 ft/s)

Axial movement: $\pm 3 \text{ mm}$

Materials

- Seal face: Composite carbon
- Seat: SiC DiamondFace coated
- Secondary seals: EPDM (E), FFKM (K)
- Springs: CrNiMo steel (G)
- Metal parts: CrNiMo steel (G)

Features

- Cartridge design
- Single seal
- Balanced
- Integrated pumping device
- Stationary spring loaded unit
- Inserted seal ring
- Rotating mating ring (DiamondFace coated)

Advantages

- Resistant to electrochemical corrosion.
- Extremely long service life (>40,000 h).
- No dosing system, no cooling circuit conditioning required.
- Diamond coating provides very low friction, thus reduced power consumption.
- Deformation-optimized for high sliding velocities and medium pressures.
- Economical due to standardized components.
- High flexibility due to adaptation of the connection parts to the pump seal chamber.
- Optimum heat dissipation due to integrated pumping device and optimized seat / seal face design.

Recommended applications

- Power plant technology
- Boiler feed pumps

HBrinker Mechanical Seal

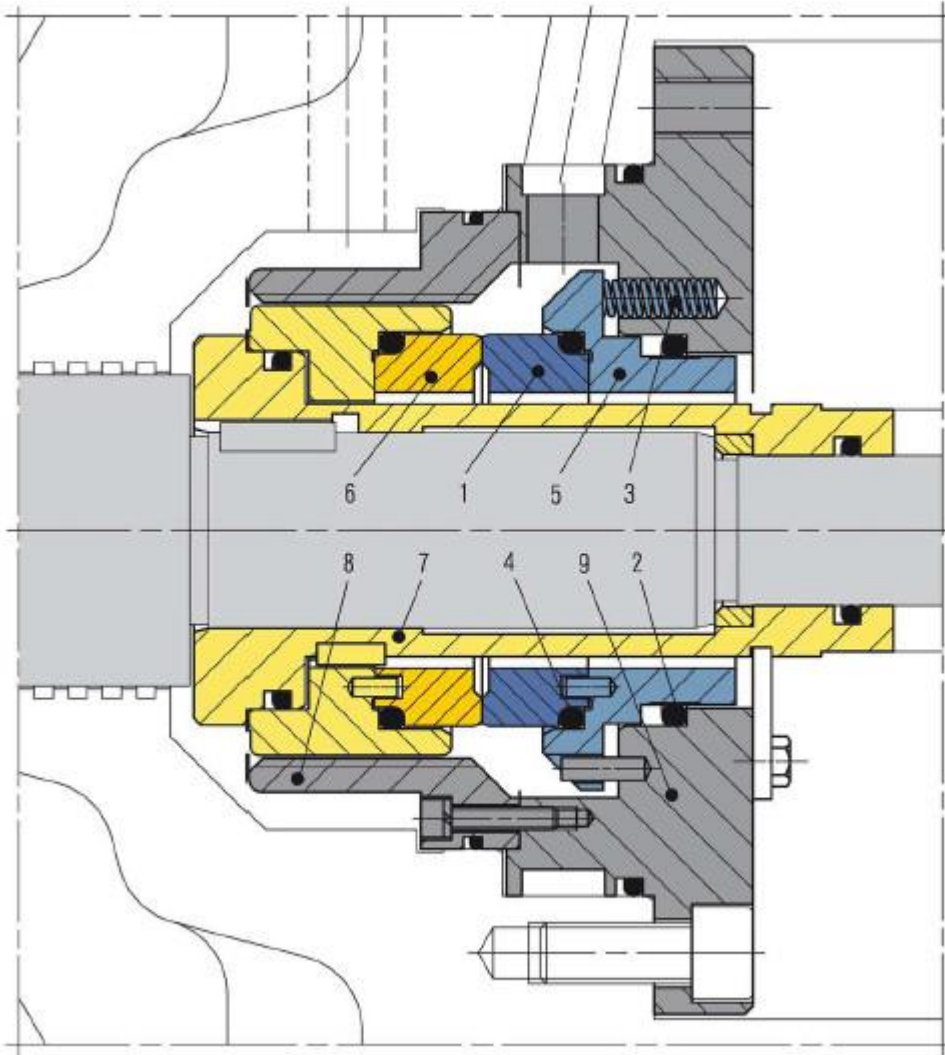
Engineered seals

Mechanical Seal HBDFA



H-Brinker

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| Item | Description |
|------|----------------------------------|
| 1 | Seal ring |
| 2 | O-Ring |
| 3 | Spring |
| 4 | O-Ring |
| 5 | Seat collar |
| 6 | Mating ring (DiamondFace coated) |
| 7 | Shaft sleeve |
| 8 | Pumping sleeve |
| 9 | Cover |