

HBrinker Mechanical Seal

Engineered seals

Mechanical Seal HBHI366



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Operating range

Shaft diameter: $d_1 = 50 \dots 150$ mm (1.97" ... 5.91")

Pressure: $p_1 = 100$ bar (1,450 PSI),

Static: up to 150 bar (2,175 PSI),

Dynamic: up to 100 bar (1,450 PSI)

Temperature: $t = -20 \dots +100$ °C (-4 ... 212 °F)

Sliding velocity: $v_g = 50$ m/s (164 ft/s)

Axial movement: ± 1 mm

Materials

- Seal face: Silicon impregnated carbon (Q3), DiamondFace
- Stationary seat: Silicon carbide (Q2), DiamondFace
- Secondary seals: FKM (V), FFKM (K)
- Springs: Hastelloy® C-4 (M)
- Metal parts: CrNiMo steel (G), Duplex (G1), Super Duplex (G4), Titan (T2), Hastelloy® C-4 (M)

Features

- Robust seal design – especially for demanding crude oil applications
- Compact cartridge seal for small seal chambers
- Single unpressurized seal with containment high-pressure throttle design
- Stationary spring loaded unit
- Balanced seal faces in materials with high thermal conductivity and strength
- Inserted seal face
- Multi-point injection of the flush fluid optional
- Seal faces can be equipped with lubrication enhancing hydropads and/or DiamondFace technology

Advantages

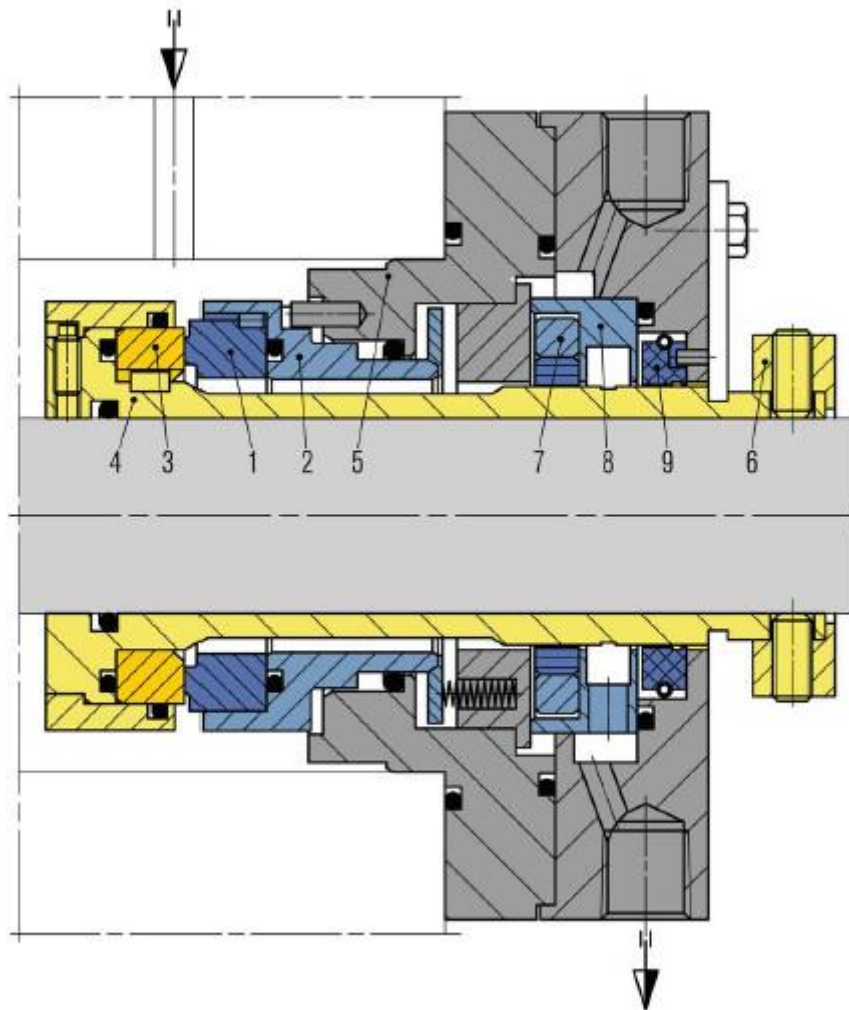
- High performance seal design for alternating media properties and operating conditions with high pressures and sliding velocities
- Low amount of heat generation, hence minimal temperature rise in the seal faces
- Seal faces have soft torque transmission
- Seal faces are shrouded in steel colars so that they cannot break apart in pieces in an emergency case
- Resistant to alignment issues between the pump case and shaft because of stationary springs
- Atmosphere side high pressure double throttle design suitable for full product pressure
- Seal face materials are resistant to solids in the pumped fluid
- Optimized for operation also with sand or particles

Recommended applications

- Pipeline systems
- Tank farms / storage tanks
- Oil & gas production

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Item	Description
1	Seal Face
2	Face Housing
3	Seat
4	Shaft Sleeve
5	Housing
6	Set ring
7	High pressure throttle ring
8	Leakage collection
9	Throttle ring