



Mechanical Seal HBRIGISEAL

Operating range

Shaft diameter: $d =$ up to 410 mm (16.14")

Pressure: $p =$ up to 450 bar (6,525 PSI) and more

Design-temperature: $t =$ -200 °C ... +230 °C (-328 °F ... +446 °F)

Sliding velocity: $v_g =$ up to 227 m/s (744 ft/s)

Materials

- Seal face: Silicon carbide with DLC- or DiamondFace-coating
- Seat: Silicon carbide with DLC- or DiamondFace-coating
- Secondary seals: PTFE or FKM
- Metal parts: 1.4006, 1.4313-QT650, 1.4418, 1.4542, Inconel® or other stainless steels

Other materials on request.

Features

- Modular design
- As upgrade of MAN centrifugal compressors or for new projects
- Available as single, double, or tandem seal
- Gas-lubricated
- Uni- or bi-directional
- Ready-to-install unit
- Optionally with separation seal such as labyrinths, carbon rings or
- H-Brinker HBCobaSeal

Advantages

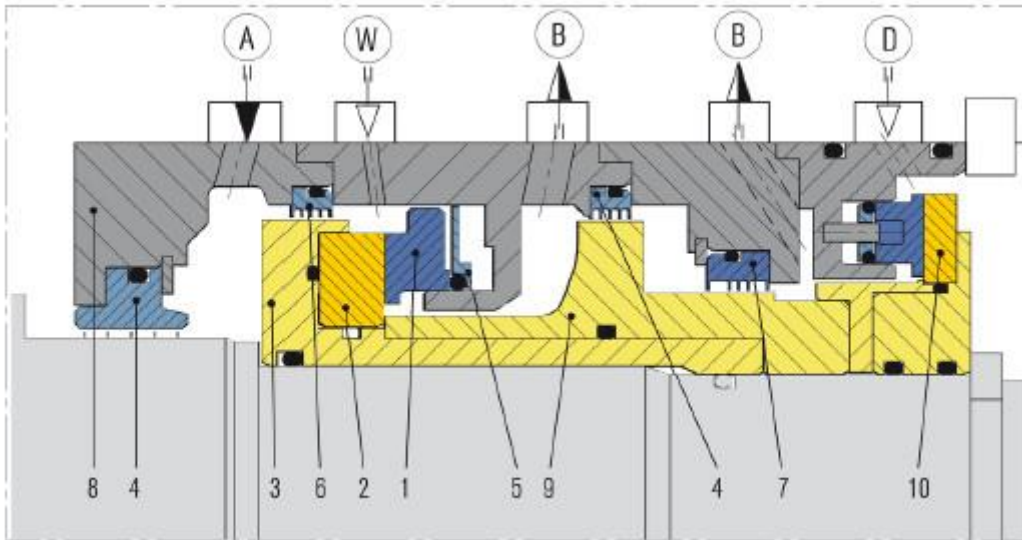
The HBRigiSeal is the efficient sealing solution when the supply gas is particularly contaminated (e.g., by particles/liquids). Due to the modular design principle, the seal can be adapted on a case-by-case basis for existing machines as well as for new projects. For this purpose, the respective seal features are defined according to the prevailing operating conditions and/or the result of the failure analysis.

Recommended applications

- Oil and gas industry
- Refining technology
- Petrochemical industry
- Applications with upstream gas treatment (glycol)
- Hydrocarbon gas
- Ammonia
- Nitrogen
- Air

HBrinker Mechanical Seal

Compressor seal Mechanical Seal HBRIGISEAL



Item	Description
1	Seal face, stationary Option: Primary seal face with DiamondFace coating
2	Seat, rotating Option: Primary seat with DiamondFace coating
3	Shaft sleeve
4	Labyrinth
5	Trust ring
6	Option: "Smart labyrinth"
7	Option: Labyrinth as back-up seal (PTFE labyrinth)
8	Housing (size matched to installation space)
9	Adapter Sleeve
10	Separation seal Option: CobaSeal
A	Seal gas supply Option: Improved seal gas extraction
W	Seal washing system
B	Vent
D	Separation gas supply