

RELY ON EXCELLENCE

DF-SA DiamondFace

Mechanical seals | Mechanical seals for pumps | Engineered seals



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.

Operating range

Shaft diameter:
d1* = 120 ... 250 mm (4.72" ... 9.84")
Pressure: p1 = 70 bar (1,015 PSI)
Temperature: t = 300 °C (572 °F)
Sliding velocity: vg = 70 m/s (330 ft/s)
Axial movement: ±3 mm

* Other sizes on request

Materials

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

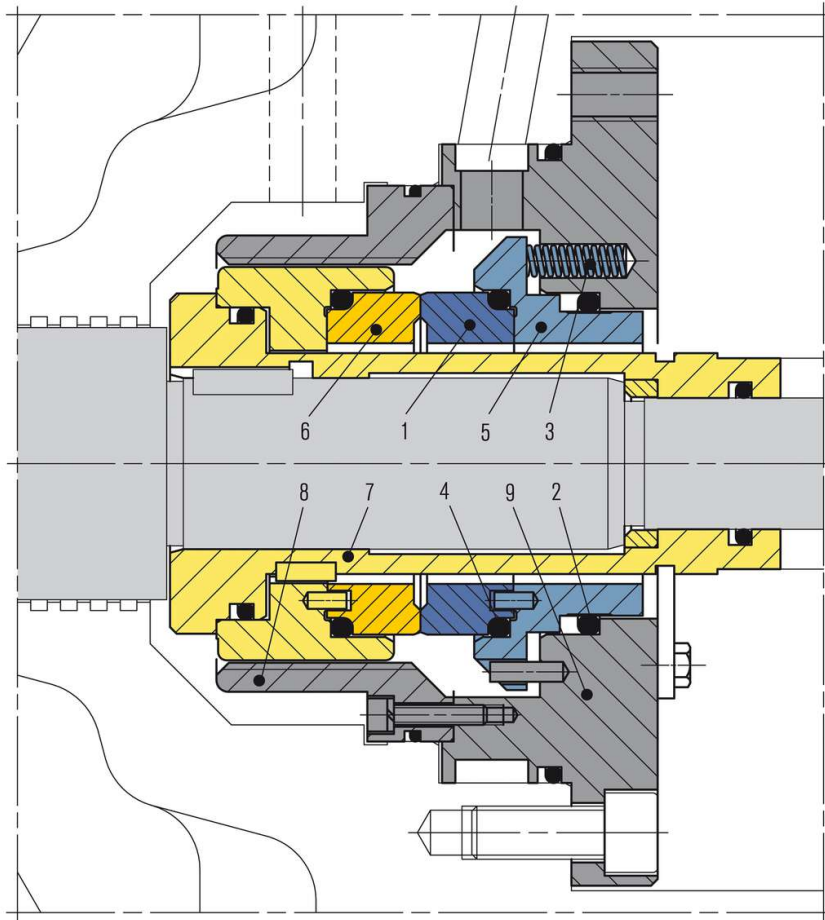
Recommended applications

- Power plant technology
- Boiler feed pumps

Recommended piping plans

API Plan 02 + 23 (with jacket cooling)

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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 |

Dimensions

Dimensions on request.