

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: v_g = 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)

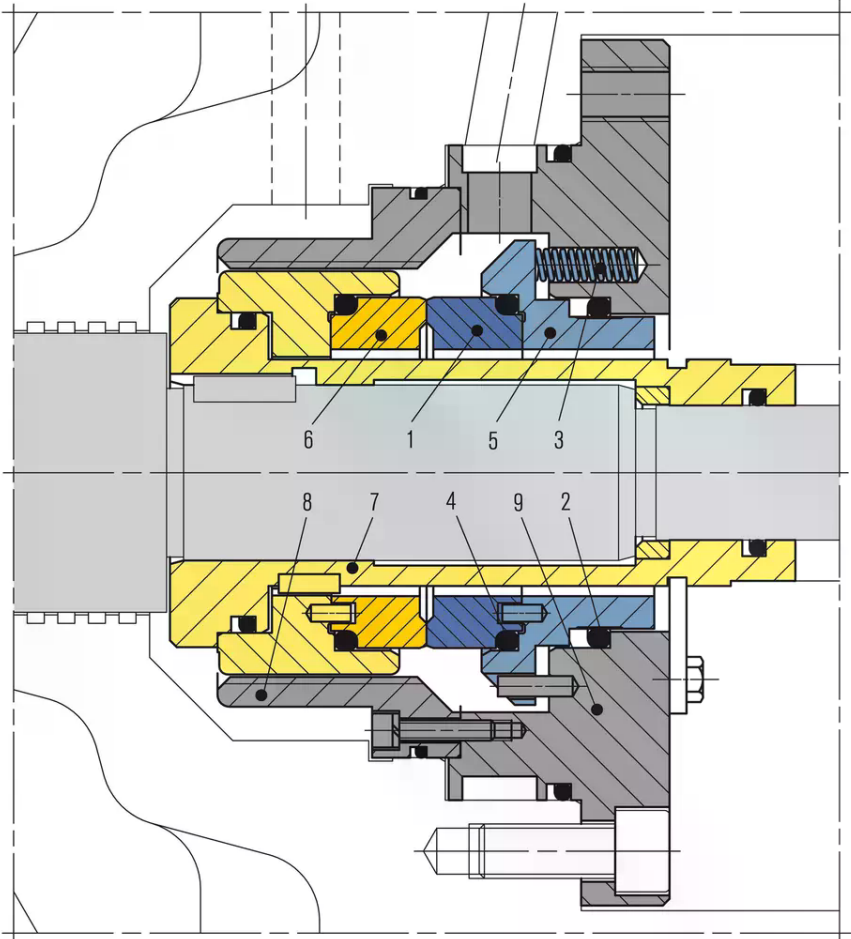
Recommended applications

- Power plant technology
- Power generation
- Nuclear power 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