EagleBurgmann
a member of EKK and FREUDENBERG

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
- Power generation
- Nuclear power technology
- Boiler feed pumps

Recommended piping plans

API Plan 02 + 23 (with jacket cooling)

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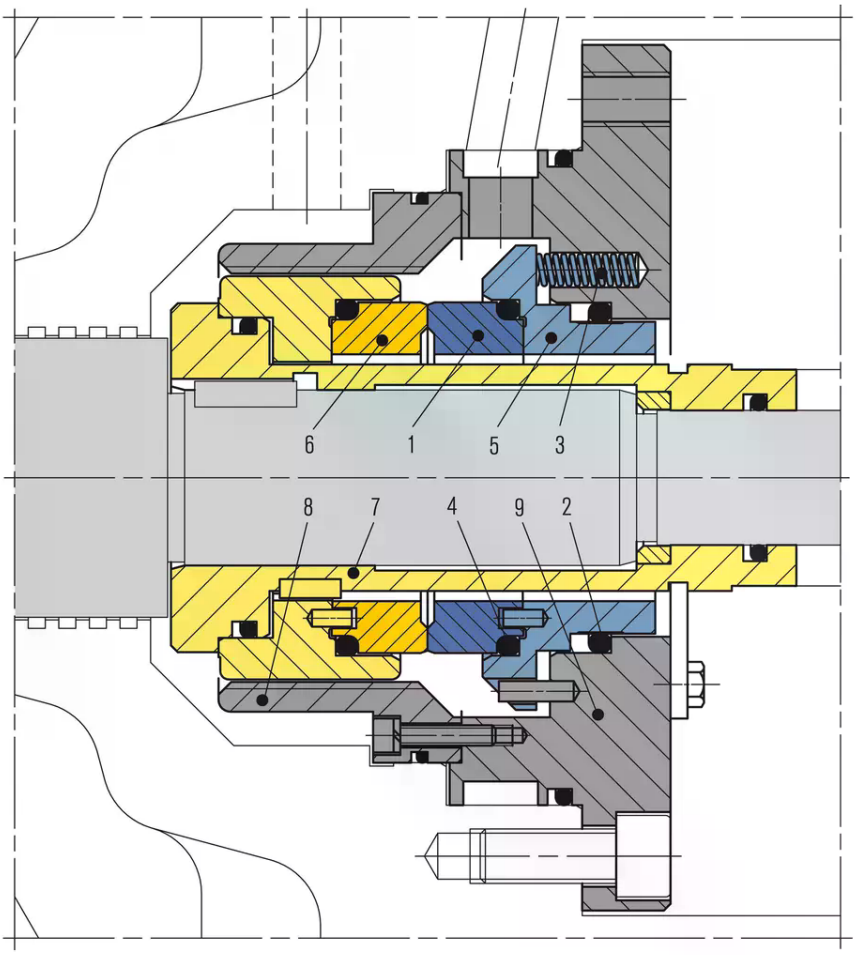
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.



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

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