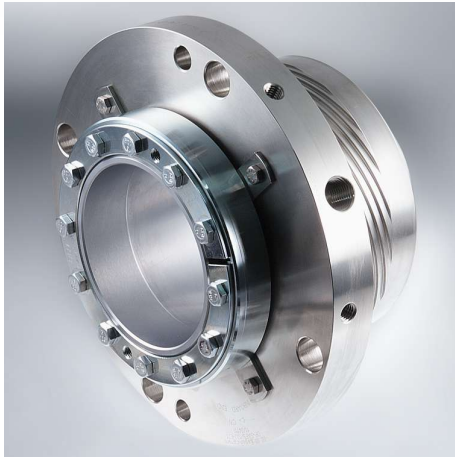


DF-SA DiamondFace



Operating range

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

* Other sizes on request

Recommended applications

- Power plant technology
- Boiler feed pumps

Recommended piping plans

API Plan 02 + 23 (with jacket cooling)

Materials

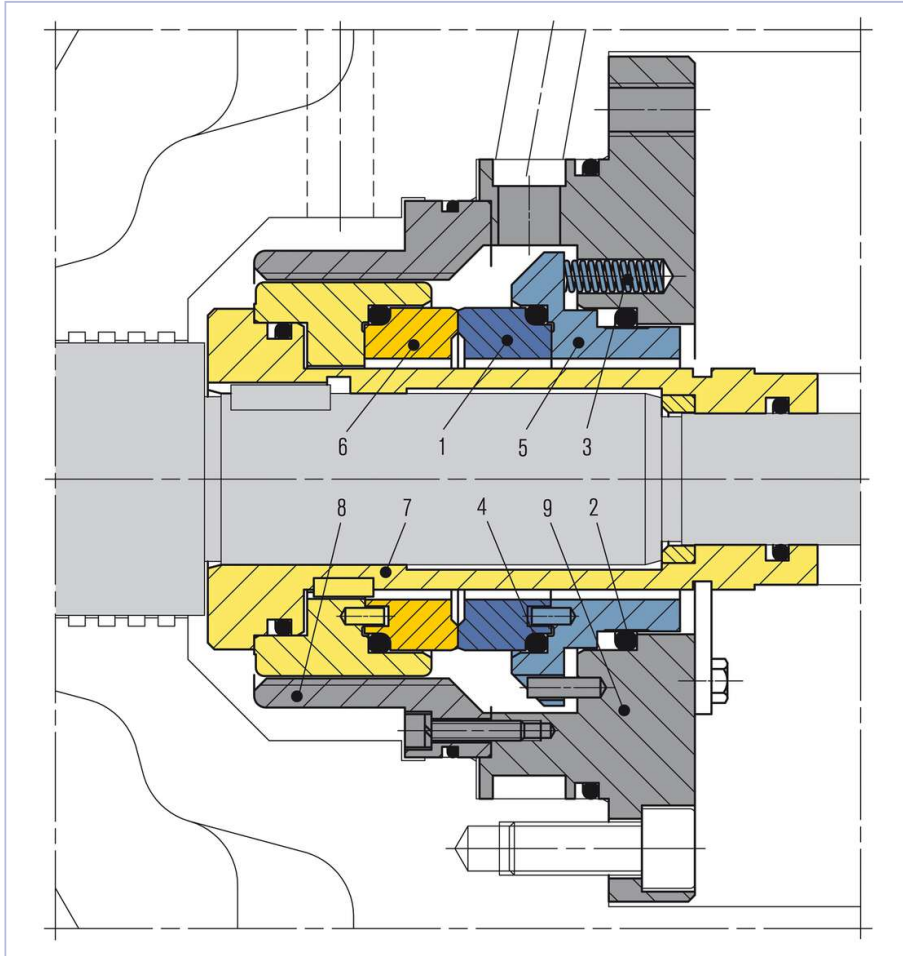
Seal face: Composite carbon
Seat: SiC DiamondFace coated
Secondary seals: EPDM (E), FFKM (K)
Springs: CrNiMo steel (G)
Metal parts: CrNiMo steel (G)

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.

**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.