

RELY ON EXCELLENCE

SAF(V) / SAP(V)

Mechanical Seals | Mechanical seals for pumps | Engineered Seals



Features

- Cartridge design
- Single seal
- Balanced
- Dependent on direction of rotation
- Integrated pumping device
- Stationary spring loaded unit
- Inserted seal face
- Rotating carbon seat

Advantages

- Deformation-optimized seal for high sliding velocities and medium pressures
- Economical due to standardized inner 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
- Insensitive to shaft deflections due to stationary design
- Pre-assembled unit for quick and easy installation
- Only small number of components

Operating range

Shaft diameter:
 $d1^* = 120 \dots 250 \text{ mm (4.72" ... 9.84")}$
 Pressure: $p1 = 50 \text{ bar (725 PSI)}$
 Temperature: $t = +300 \text{ }^\circ\text{C (+572 }^\circ\text{F)}$
 Sliding velocity: $v_g = 65 \text{ m/s (213 ft/s)}$
 Axial movement: $\pm 3 \text{ mm}$

* Other sizes on request

Materials

Seal face: Silicon carbide (Q), SiC-C-Si Silicon impregnated carbon (Q3)
 Seat: Carbon graphite resin impregnated (B), SiC-C-Si Silicon impregnated carbon (Q3)
 Secondary seals: EPDM (E), FFKM (K)
 Springs: CrNiMo steel (G)
 Metal parts: CrNiMo steel (G)

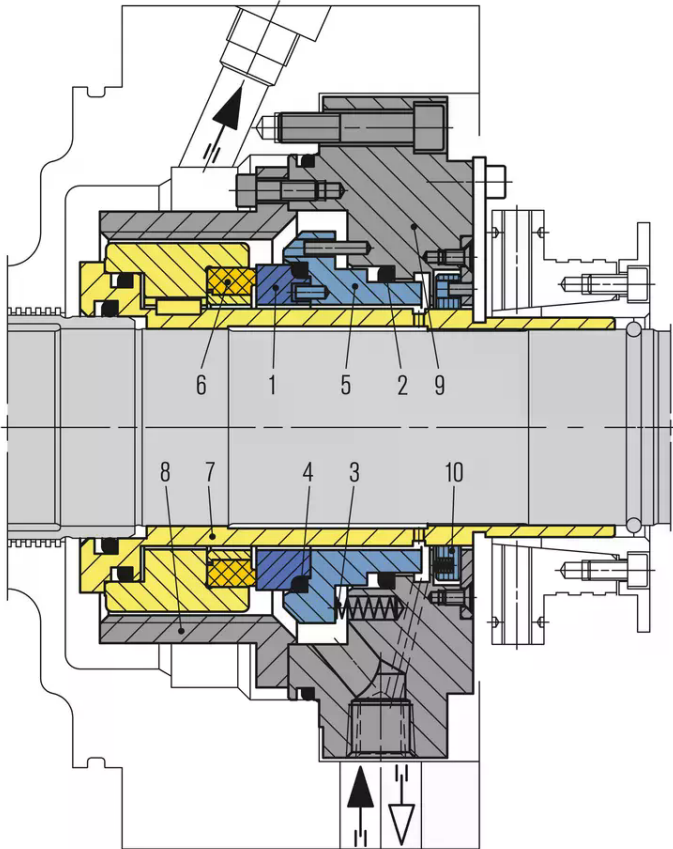
Recommended applications

- Boiler feed water with low conductivity
- Power plant technology
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Power generation
- Boiler feed pumps

Recommended piping plans

[API Plan 02](#) + [API Plan 23](#) (with jacket cooling)

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Item	Description
1	Seal face
2	O-Ring
3	Spring
4	O-Ring
5	Seat collar
6	Seat
7	Shaft sleeve
8	Pumping sleeve
9	Cover
10	Throttle ring