SBF/SBP Single Seals

Mechanical Seals For Pumps - Engineered Seals

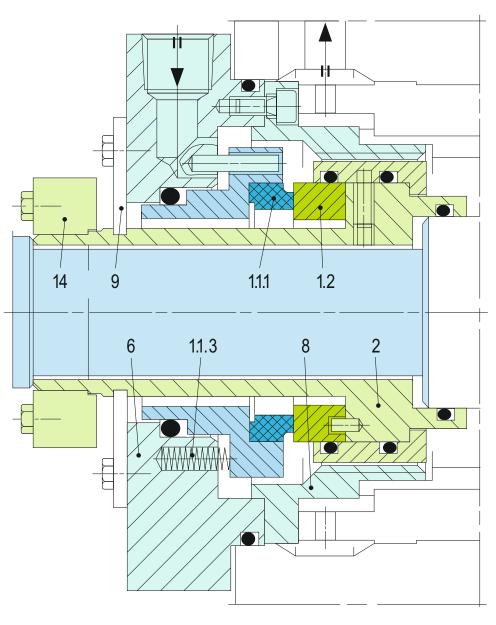


Product Description

- 1. Single seal configuration
- 2. Balanced design
- 3. Independent of direction of rotation
- 4. Cartridge construction
- 5. Stationary design with multiple springs
- Designed with integrated pumping device for increased efficiency in circulation
- 7. Robust construction with shrink-fitted seal face
- 8. Heavy duty design of solid stationary

Technical Features

- 1. Accommodates shaft deflections due to stationary design
- Can be designed for individual pump application with corresponding connection parts to be adapted to the pump seal chamber
- Optimum heat dissipation due to integrated pumping device available for increased efficiency in circulation and optimized seat design
- Cartridge unit factory assembled for easy installation, which reduces downtime
- Trouble-free long-term operation due to heavy duty single seat design with bandage
- 6. Can operate under high sliding velocities and medium pressures



Typical Industrial Applications

Boiler feed water pumps Power plant technology

Performance Capabilities

Sizes: $d_1^* = Upto 250 \text{ mm (Upto } 10.000")$

Pressure: p₁ = 50 bar (725 PSI) Temperature: t = 300 °C (572 °F) Speed = 60 m/s (197 ft/s) Permissible axial movement: ±3 mm

* Other sizes on request

Materials

Seal face: Silicon carbide (Q), Carbon graphite antimony impregnated (A), Carbon

graphite resin impregnated (B)

Seat: Silicon carbide

Secondary seals: EPDM (E), FFKM (K)

Springs: CrNiMo steel (G) Metal parts: CrNiMo steel (G)

Design Variations

SBF4

Single Mechanical Seal with integrated jacket cooling, for boiler feed pumps

Item	Description
1.1.1	Seal face
1.1.3	Spring
1.2	Seat
2	Shaft sleeve
6	Cover
8	Pumping screw with flow guide
9	Assembly fixture
14	Shrink disk