



Product Description

1. Balanced
2. Cartridge design
3. Dependent of direction of rotation
4. Integrated pumping device
5. Multiple springs
6. Shrink-fitted seal face
7. Single seal
8. Stationary spring loaded unit

Technical Features

1. Suitable for high sliding velocities and medium pressures
2. Accommodates shaft deflections due to stationary design
3. Cost effective due to standardized inner components
4. High flexibility due to adaption of the connection parts to the pump seal chamber
5. Optimum heat dissipation due to integrated pumping device and optimized seat design
6. Pre-assembled unit for quick and easy installation
7. Versatile application for OEM or retrofits of boiler feed water 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

Typical Industrial Applications

Boiler feed water pumps
Power plant technology

Performance Capabilities

Sizes: $d1^* =$ Upto 250 mm (Upto 10.000")
 Pressure: $p1 = 50$ bar (725 PSI)
 Temperature: $t = 300^\circ\text{C}$ (572°F)
 Speed = 60 m/s (197 ft/s)
 Permissible axial movement: ± 3 mm

Materials

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