

SB-Ta

Product Description

- 1. API 682 Category 2 and 3, Type A, Arrangement 2 & 3 seal
- 2. Dual seal in face-to-back configuration
- 3. Balanced design
- 4. Independent of direction of rotation
- 5. Cartridge construction
- 6. Stationary design with multiple springs
- 7. Designed with integrated pumping device for increased efficiency in circulation
- 8. Robust construction with shrink-fitted seal face
- 9. Heavy duty design of solid seat

Technical Features

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

Typical Industrial Applications

- Multiphase pumps API 610/ISO 13709 pumps
- Oil and gas industry
- Refining technology
- Chemical industry
- Hot water
- Sour water
- Caustic soda
- Amines
- Crystallizing media
- Crude oil
- Process water
- Crude oil feed pumps
- Injection pumps

Performance Capabilities

Shaft diameter: d1 = 20 ... 110 mm (0.79" ... 4.33") Pressure: p = 60 bar (870 PSI) Temperature: -40 °C ... +176 °C (-40 °F ... +349 °F)* Sliding velocity: vg = 50 m/s (164 ft/s) * Engineered up to 260 °C (500 °F) with FFKM (K) secondary seals

Materials

Seal rings: Blister resistant carbon, Silicon carbide SSiC (Q1), RBSiC (Q2) Mating rings: Silicon carbide SSiC (Q1), RBSiC (Q2) Secondary seals: FKM (V), FFKM (K), EPDM (E), NBR (P) Springs: Hastelloy[®] C-276 (M5) Metal parts: CrNiMo steel 316 (G)

Recommended piping plans 2CW-CW Process side:

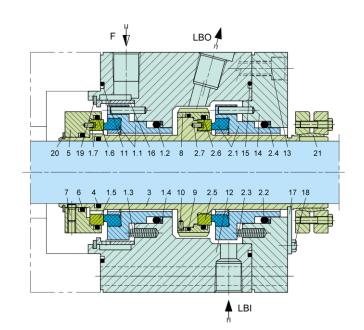
01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41 Between seals: 52, 55 Atmospheric side*: 61, 62, 65A, 65B * Throttle bushing on request

Recommended piping plans 3CW-FB

Process side: 01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41 Between seals: 53A, 53B, 53C, 54 Atmospheric side*: 61, 62, 65A, 65B



API 682 4th Edition Category 2 & 3 Seal type A (Stationary) Configuration 2CW-CW (Contacting Wet– Contacting Wet) Configuration 3CW-FB (Contacting Wet– Face-to-Back)



Item	Description
1.1, 2.1	Seal ring
1.2, 1.6, 2.2, 2.6, 4, 6, 9, 11, 15	O-ring
1.3, 2.3	Spring
1.4, 2.4	Back up ring
1.5, 2.5	Mating Ring
1.7, 2.7, 10	Pin
3	Shaft sleeve
5	Seat housing
7	Set screw
8	Pumping ring
12	Gland
13	HSH cap screw
14	Cover
16	Multi-flow distributor
17	Setting Plate
18	Hexagon screw
19, 20	Retaining ring
21	Shrink disc
F	Flush
LBI	Liquid Buffer/Barrier IN
LBO	Liquid Buffer/Barrier OUT