SBF(V)-D / SBP(V)-D Dual Seals

Mechanical Seals For Pumps - Engineered Seals

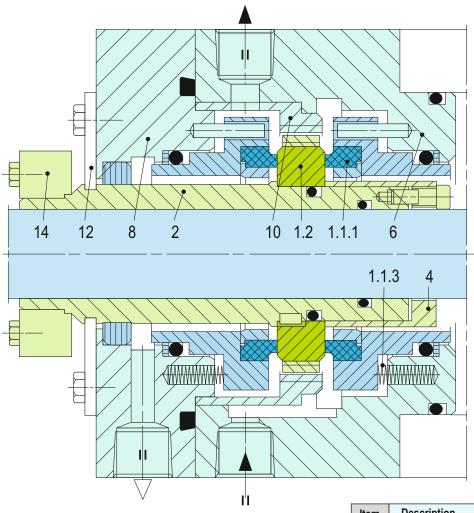


Product Description

- 1. Dual 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 seat

Technical Features

- Accommodates shaft deflections due to stationary design
- 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 down-time
- 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
- 7. Can be adopted for use in compliance with API 682, type ES
- 8. Versatile application for various kinds of heavy duty applications



Description Item 1.1.1 Seal face 1.1.3 Spring 1.2 Seat 2 Shaft sleeve 4 Clamping sleeve 6 Housing 8 Cover 10 Pumping sleeve 12 Assembly fixture Shrink disk

Typical Industrial Applications

Crude oil
Crude oil feed pumps
Injection pumps
Multi-phase pumps
Oil and gas industry
Process water
Refining technology
Volatile and non-volatile hydrocarbons

Standards

API 682 / ISO 21049

Chemical industry

Performance Capabilities

Sizes: d_1^* = Upto 250 mm (Upto 10.000") Pressure: p_1 = 150 bar (2,175 PSI) Temperature: t = 200 °C (392 °F) Speed = 60 m/s (197 ft/s) * Other sizes on request

Materials

Seal face: SiC-C-Si, Silicon impregnated carbon (Q3), Carbon graphite antimony

impregnated (A) Seat: Silicon carbide (Q)

Secondary seals: FKM (V), EPDM (E),

FFKM (K)

Springs: Hastelloy® C-4 (M)

Metal parts: CrNiMo steel (G), Duplex (G1), Super Duplex (G4), Pure Titanium (T2),

Hastelloy® C-4 (M)

Design Variations

SBF(V)1-D/SBP(V)1-D

Same design as SBF(V)-D / SBP(V)-D but with loosely inserted seal face for extreme applications.

Pressure: $p_1 = 200 \text{ bar } (2900 \text{ PSI})$