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
- 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

- 1. 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
- Trouble-free long-term operation due to heavy duty single seat design with bandage
 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

Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Description
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
14	Shrink disk

Typical Industrial Applications

Amines
Caustic soda
Chemical
Crude oil
Crystallizing media
Feed pumps
Hot water
Injection pumps

Multi-phase pumps Oil & gas Process water Refining technology Sour water Volatile & non-volatile hydrocarbons

Standards

API 682 / ISO 21049

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	CrNiMo steel (G), Duplex (G1), Super Duplex (G4), Pure Titanium (T2), Hastelloy® C-4 (M)	
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:	p1 = 200 bar (2900 PSI)	



The specifications, drawings, images etc included in this catalogue are intended to be generic and must be interpreted as equivalent or functionally equivalent, more specifically the performance capabilities mentioned in this catalogue is based on optimum values, however the performance of the product is dependent on size, material of construction, media, pressure, temperature, sliding velocity etc and it shall vary from size to size or application to application. Customers are requested to consult with Sealmatic before employing the product from this catalogue for any application.