

# B750VN

API 682 4th Edition Category 2 & 3  
Seal type A (Rotating)  
Configuration 1CW-FL (Contacting Wet – Floating throttle bushing)

## Product Description

1. API 682 Category 2 and 3, Type A, Arrangement 1
2. Single seal configuration
3. Balanced design
4. Independent of direction of rotation
5. Cartridge construction
6. Pumping device available for increased efficiency in circulation
7. Rotary unit with multiple springs

## Technical Features

1. Robust and compact design
2. Standardised components allows efficient stock-keeping
3. Extensive applications in the field covering varied temperatures and pressures
4. Extensive selection of materials
5. Metal parts available in special materials
6. Universally applicable both for retrofits or original equipments

## Typical Industrial Applications

- API 610/ISO 13709 pumps
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Highly volatile hydrocarbons
- LPG plants
- Power plant technology
- Process pumps

## Performance Capabilities

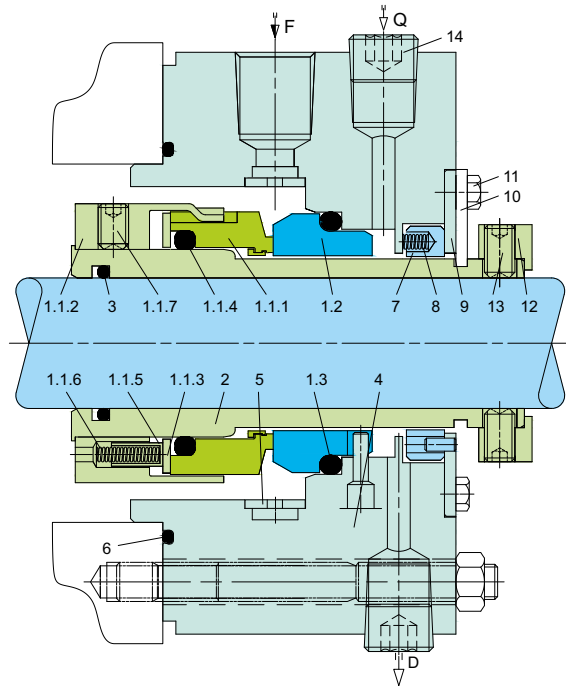
Shaft diameter:  $d = 20 \dots 110 \text{ mm}$  (0.79" ... 4.33")  
 Pressure:  $p_1 = \dots 42 \text{ bar}$  (609 PSI)  
 Temperature:  $t = -40 \text{ }^\circ\text{C} \dots +176 \text{ }^\circ\text{C}$  (-40 °F ... +349 °F)\*  
 Sliding velocity:  $v_g = 23 \text{ m/s}$  (75 ft/s)  
 Axial movement:  
 $d \leq 40 \text{ mm} \pm 1.0 \text{ mm}$   
 $d \geq 40 \text{ mm} \pm 1.5 \text{ mm}$   
 \* Engineered up to 260 °C (500 °F) with FFKM (K) secondary seals

## Materials

Seal ring: Blister resistant carbon, Silicon carbide SSiC (Q1), RBSiC (Q2)  
 Mating ring: Silicon carbide SSiC (Q1), RBSiC (Q2)  
 Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K)  
 Springs: Hastelloy® C-276 (M5)  
 Metal parts: CrNiMo steel 316 (G) or equivalent, optional materials on request.

## Recommended piping plans

Process side:  
01, 02, 03, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41  
 Atmospheric side: 51, 61, 62, 65A, 65B, 66A, 66B



Item	Description
1.1.1	Seal ring
1.1.2	Driver
1.1.3	Thrust ring
1.1.4, 1.3, 3, 6	O-ring
1.1.5	Spring Sleeve
1.1.6, 8	Spring
1.1.7, 13	Set screw
1.2	Mating ring
2	Shaft sleeve
4	Gland
5	Multi-flow distributor
7	Throttle bushing
9	Washer
10	Setting plate
11	Hexagon bolt
12	Set ring
14	Plug
F	Flush
Q	Quench
D	Drain