# **UFL650**

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

#### **Product Description**

- API 682 Category 2 and 3, Type C, Arrangement 1 seal
- 2. Single seal configuration
- 3. Balanced
- 4. Cartridge unit
- 5. Stationary metal bellows
- 6. Shrink fitted seal ring and solid mating ring

#### **Technical Features**

- 1. Design construction for higher speeds
- Design accommodates run-out, squareness or vibration of the shaft
- 3. Compact construction
- 4. Balanced bellows design allows installation on plain sleeve
- Elimination of seal face hang up due to absence of dynamic O-Ring
- 6. Face load variation is minimised due to bellows design on account of shaft expansion or face wear
- Resistance to abrasive particles in the medium, no shaft or sleeve fretting
- 8. Narrow seal face width leads to low heat generation and power consumption
- 9. Extended seal life

#### **Typical Industrial Applications**

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

## **Performance Capabilities**

Shaft diameter: d1 = 20 ... 110 mm (0.79" ... 4.33") Pressure: p = vacuum ... 20 bar (... 290 PSI) Temperature: t = -130 °C ... +400 °C (-202 °F ... +752 °F)

Sliding velocity: vg ... 50 m/s (... 164 ft/s)

### Materials

Seal ring: Blister resistant carbon, Silicon carbide SSiC (Q1), RBSiC (Q2)

Mating ring: Silicon carbide SSiC (Q1), RBSiC (Q2)

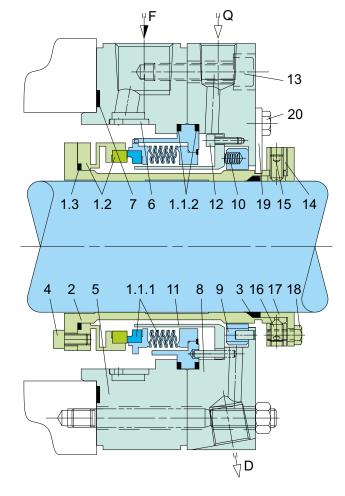
Bellows: Inconel® 718 (M6) Secondary seals: Graphite (G)

Metal parts: CrNiMo steel 316 (G), Carpenter® 42 (T4)

#### **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 with Bellows Unit
1.1.2, 1.3, 7	Gasket
1.2	Mating ring
2	Shaft sleeve
3	Sealing ring
4, 12, 13	HSH cap screw
5	Gland
6	Multi-flow distributor
8	Cover
9	Throttle bushing
10	Spring
11	Quench Baffle
14	Drive collar
15,16	Set screw
17	Pusher ring
18, 20	Hexagon bolt
19	Setting plate
F	Flush
Q	Quench
D	Drain

