

# UFLWT800

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

## Product Description

1. API 682 Category 2 and 3, Type C, Arrangement 1 seal
2. Single seal configuration
3. Balanced design
4. Independent of direction of rotation
5. Cartridge Construction
6. For plain shafts
7. Rotary metal bellows design
8. Shrink fitted seal ring and solid stationary ring

## Technical Features

1. Compact construction
2. Balanced bellows design allows installation on plain sleeve
3. Elimination of seal face hang up due to absence of dynamic O-Ring
4. Face load variation is minimised due to bellows design on account of shaft expansion or face wear
5. Resistance to abrasive particles in the medium, no shaft or sleeve fretting
6. Narrow seal face width leads to low heat generation and power consumption
7. 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

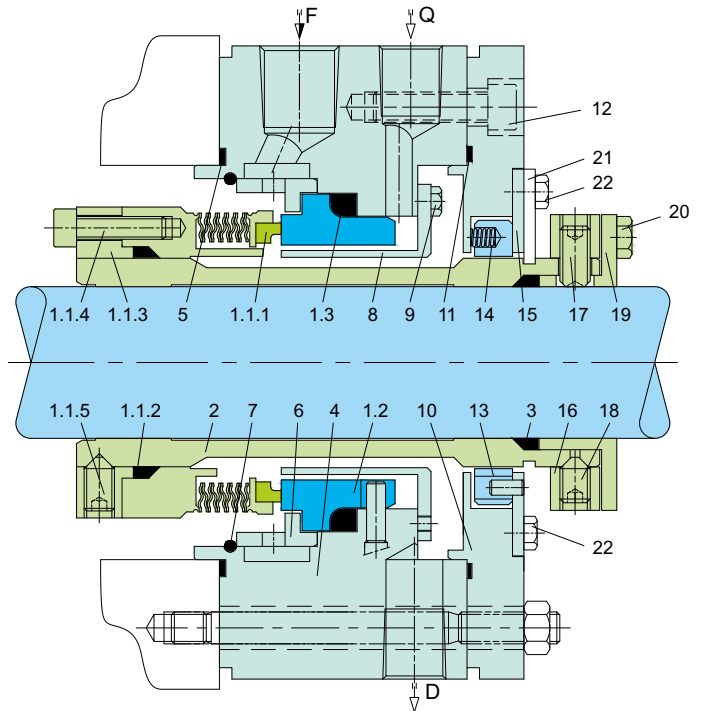
Shaft diameter:  $d_1 = 20 \dots 110 \text{ mm}$  (0.79" ... 4.33")  
 Pressure:  $p = \text{vacuum} \dots 25 \text{ bar}$  (... 363 PSI)  
 Temperature:  $t = -75 \text{ }^\circ\text{C} \dots +400 \text{ }^\circ\text{C}$  (-103 °F ... +752 °F)  
 Sliding velocity:  $v_g \dots 23 \text{ m/s}$  (... 75 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, 3	Sealing ring
1.1.3	Thrust ring
1.1.4, 12	HSH cap screw
1.1.5, 17, 18	Set screw
1.2	Mating ring
2	Shaft sleeve
4	Gland
5, 11	Gasket
6	Multi-flow distributor
7	Retaining ring
8	Quench baffle
9, 20, 22	Hexagon bolt
10	Cover
13	Throttle bushing
14	Spring
15	Washer
16	Set ring
19	Pusher ring
21	Setting plate
F	Flush
Q	Quench
D	Drain