UFL650-D

API 682 4th Edition Category 2 & 3 Seal type C (Stationary) Configuration 3CW-FF (Contacting Wet – Face-to-Face)

Product Description

- API 682 Category 2 and 3, Type C, Arrangement 3 seal
- 2. Dual seal in face-to-face configuration
- 3. Balanced design
- 4. Independent of direction of rotation
- 5. Cartridge construction
- 6. For plain shafts
- 7. Stationary metal bellows design
- 8. Shrink fitted seal rings and solid mating rings

Technical Features

- 1. Suitable for high and low temperature application
- 2. Compact design
- 3. No dynamically loaded O-ring which reduces chances of seal face hang-up.
- 4. Pumping screw for media with higher viscosity also available
- 5. Short installation length possible
- 6. Rugged design for long operating life
- 7. Bellows design efficiently ensure self-cleaning
- 8. Bellows design minimizes variation in face load due to shaft expansion or face wear
- 9. Resistant to abrasive particles in the medium, no shaft or sleeve fretting

Typical Industrial Applications

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

Performance Capabilities

Shaft diameter: d1 = 20 ... 110 mm (0.79" ... 4.33")

p = vacuum ... 20 bar (... 290 PSI)

Temperature: $t = -130 \,^{\circ}\text{C} \dots +400 \,^{\circ}\text{C} (-202 \,^{\circ}\text{F} \dots +752 \,^{\circ}\text{F})$

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

Materials

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

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

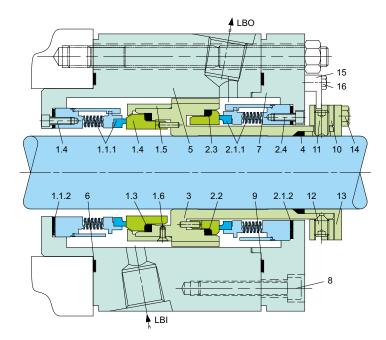
Bellows: Inconel® 718 (M6) Secondary seals: Graphite (G)

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

Recommended piping plans

Process side: 01, 02, 03, 11, 12, 13, 14, 21, 22, 31, 32, 41 Between seals: 53A, 53B, 53C, 54

Atmospheric side*: 61, 62, 65A, 65B
* Throttle bushing on request



Item	Description
1.1.1, 2.1.1	Seal ring with Bellows unit
1.1.2, 2.1.2, 6, 9	Gasket
1.2, 2.2	Mating ring
1.3, 2.3, 4	Sealing ring
1.4, 2.4, 8	HSH cap screw
1.5	Lock ring
1.6, 11, 12	Set screw
3	Shaft sleeve
5	Intermediate gland
7	Gland
10	Set ring
13	Pusher ring
14, 16	Hexagon bolt
15	Assembly plate
LBI	Liquid Barrier IN
LBO	Liquid Barrier OUT

