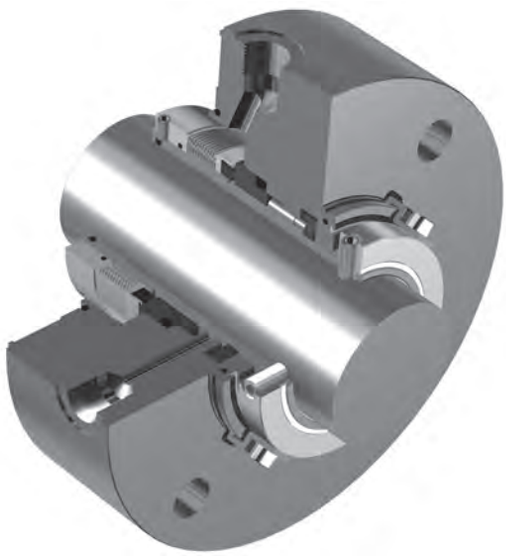
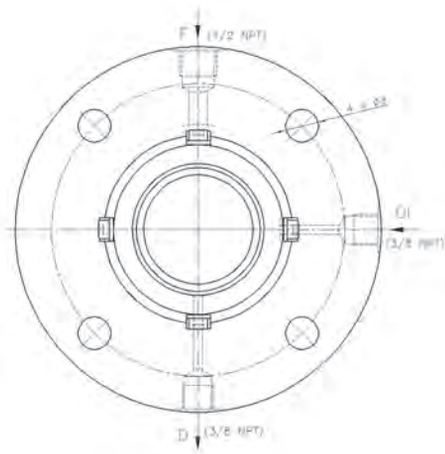
EP

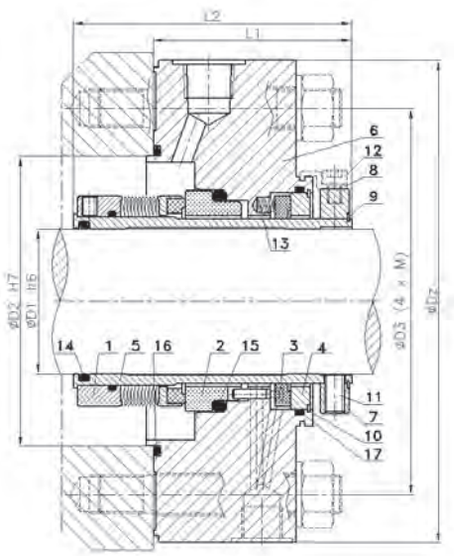
Operating limits*		
Pressure	p_{max}	2,0 MPa
Temperature	t_{max}	200 °C
Speed	v_{max}	20 m/s

* - see note on page 3.

- Single compact (cartridge) mechanical seal
- Metal bellows
- Multi-spring, balanced, dual-directional
- Design according to EN ISO 21049 (API 682): type B, category 1 (any glands) or 2 (gland dimensions acc. to ISO 13709), arrangement 1, configuration 1CW-FL







Legend

1. Rotary part E1
2. Stationary ring
3. Throttle ring EP
4. Thrust ring EP
5. Sleeve EP
6. Cover EP
7. Clamp ring EP
8. Distance plate EP.
9. Retaining ring
10. Retaining ring
11. Set screw
12. Hex screw
13. Spring
14. O-ring
15. O-ring
16. O-ring
17. O-ring

F – flushing / vent
Q – quench
D - drain

Features

- implementation of non-sparking carbon graphite throttle ring enables blocking the emission of volatile substances into the environment and separating potential outflow from the atmosphere (to the safe zone)
- compact construction, it fits also into smaller pump stuffing boxes
- cartridge design provides easy and quick assembly and disassembly without setting the fixing dimensions
- very low emission of volatile substances into the atmosphere
- supplied seal is fully assembled which excludes possible mistakes during the assembly process

Application

EP is designed to operate with hydrocarbons present in oil refining processes. It is designed according to EN ISO 21049 (API 682) recommendations.

EP seal is compatible with API 682 Plans:

- at the process side – Plans: 11, 12, 13, 23, 31, 32
- at the atmosphere side – Plans: 61, 62, 65.

Dimensions (mm)

D1	D4	DS	DZ	L1	L2	M
20	70	105	140	82	105	M12x1,75
30	80	115	150	82	105	M12x1,75
40	90	125	160	82	105	M12x1,75
50	100	140	190	82	110	M16x2,0
60	120	160	200	82	115	M16x2,0
70	130	170	210	82	115	M16x2,0
80	140	180	220	87	125	M16x2,0
90	160	205	250	87	125	M20x2,5
100	170	215	260	87	125	M20x2,5
110	180	225	270	87	125	M20x2,5

Other dimensions are available as an option. Please contact ANGA.

Materials

Part	Code
Rotating ring	A, B, Q
Stationary ring	Q, U
Secondary, flexible seals	E, K, V
Spring	M
Other metal parts	G