

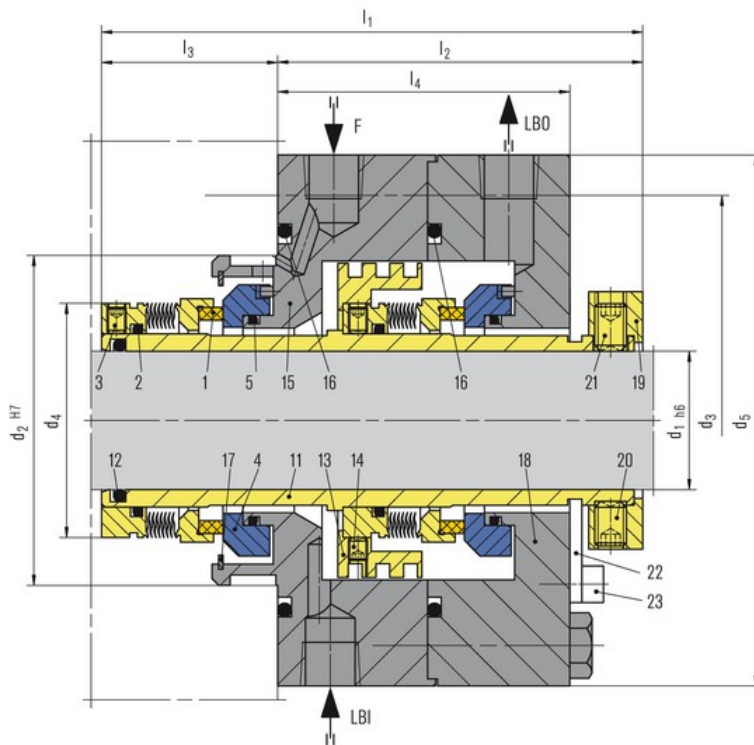
LY9DTSS

Features

- API 682 Category 2 and 3, Type B, Arrangement 2 and 3 seal
- Dual seal in face-to-back arrangement
- Same seal size of inboard and outboard seal
- Balanced
- Cartridge unit
- Rotating metal bellows
- Shrink fitted seal ring and solid mating ring

Advantages

- Compact design
- Bellows design allows use of balanced seal with plain sleeve
- Absence of dynamic O-Ring eliminates/reduces seal face hang-up
- Bellows design minimizes variation in face load due to shaft expansion or face wear
- Resistant to abrasive particles in the medium, no shaft or sleeve fretting
- Low heat generation and power consumption due to narrow seal face width
- Longer seal life



Item	Description
1	Seal ring with bellows unit
2, 5, 12, 16	O-Ring
3, 14, 20, 21	Set screw
4	Mating ring
11	Seal sleeve
13	Pumping ring
15, 18	Gland plate
17	Retaining ring
19	Drive collar
22	Setting device
23	HSH Cap screw

LY9DTSS (2)

Recommended applications

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

Operating range

Pressure: p = vacuum ... 20 bar (290 PSI)
Temperature: t = -40 °C ... +200 °C (-40 °F ... +392 °F)
Sliding velocity: vg ... 23 m/s (75 ft/s)
Viscosity: ... 1,000 mPas
Solids content: ... 0.5 wt.%

Standards and approvals

- API 682 / ISO 21049

Materials

Seal ring: Blister resistant carbon
Mating ring:
Silicon carbide SSiC (Q1), RBSiC (Q2)
Bellows: Hastelloy® C-276 (M5),
option: Inconel® 718 (M6)
Secondary seals:
FKM (V), FFKM (K), EPDM (E), NBR (P)
Metal parts: CrNiMo steel 316 (G),
Hastelloy® C-276 (M5)

Recommended piping plans

Process side:
02, 11, 12, 13, 14, 21, 22, 23, 31, 32, 41
Between seals:
52, 53A, 53B, 53C, 54, 55
Atmospheric side*:
61, 62, 65A, 65B

* Throttle bushing on request

Dimensions

API/d ₁	API/d ₂	API/d ₃	d ₄	d ₅	l ₁	l ₂	l ₃	l ₄
20	70	105	-	-	-	-	-	-
30	80	115	55.6	138	141.5	98	43.5	82
40	90	125	65.1	148	142	98	44	82
50	100	140	74.6	168	157	107	50	87
60	120	160	87.3	188	167	107	60	87
70	130	170	98.4	198	167.5	107	60.5	87
80	140	180	108	208	171.5	107	64.5	87
90	160	205	120.7	238	179.5	115	64.5	95
100	170	215	130.2	248	180.5	115	65.5	95
110	180	225	138.9	258	185.5	115	70.5	95

Dimensions in millimeter

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