Mechanical seals Mechanical seals for pumps · Pusher seals

EagleBurgmann. **Rely on excellence**

LL9DSUU

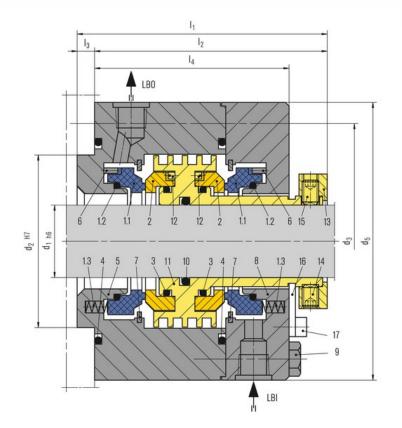
Features

- API 682 Category 2 and 3, Type A, Arrangement 3 seal
- Dual seal in face-to-face arrangement
- Same size of inboard and outboard seal
- Balanced
- Cartridge unit
- Stationary multiple springs
- Solid seal faces

Advantages

- Suitable for higher speeds
- Good followability due to no influence from run-out, squareness or vibration of the shaft
- Compact design - Low heat generation and power consumption due to narrow seal face width
- Longer seal life
- Pressure-balanced design prevents mating ring being forced out under reverse pressure
- No damage to shaft sleeve as dynamic O-Ring is not in direct contact with the sleeve





Item	Description
1.1	Seal ring
1.2, 3, 4, 10	O-Ring
1.3	Spring
2	Mating ring
5, 8	Gland plate
6	Pin
7	Retaining ring
9	Hexagon bolt
11	Shaft sleeve
12	Drive screw
13	Drive collar
14, 15	Set screw
16	Setting device
17	HSH Cap screw

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All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values. We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.

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Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- Light volatile hydrocarbons

Operating range

Pressure: p = 60 bar (870 PSI) Temperature: -40 °C ... +176 °C (-40 °F ... +349 °F)* Sliding velocity: vg = 50m/s (164 ft/s) Viscosity: ... 300 mPas Solids content: ... 0.5 wt.%

* Engineered up to 260 °C (500 °F) with FFKM (K) secondary seals

LPG plants

- API 610 / ISO 13709 pumps
- Process pumps

Standards and approvals

API 682 / ISO 21049

Materials

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

Recommended piping plans

Process side: 02, 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

Dimensio	ons						
API/d ₁	API/d ₂	API/d ₃	d ₅	l ₁	l ₂	l ₃	I4
20	70	105	128	108	98	10	80
30	80	115	138	110	98	12	80
40	90	125	148	113	98	15	80
50	100	140	168	122	107	15	87
60	120	160	188	122	107	15	87
70	130	170	198	122	107	15	87
80	140	180	208	122	107	15	87
90	160	205	238	130	115	15	93
100	170	215	248	130	115	15	93
110	180	225	258	135	115	20	93

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