



Mechanical Seal HBSLIP461

Operating range

- Shaft diameter (on stock): $d_1 = 40 \dots 125 \text{ mm}$ (1.57" ... 4.92")
- Special shaft diameters between 25 mm and 200 mm possible (0.98" ... 7.87")
- Pressure: $p_1 = \text{vacuum} \dots 6 \text{ bar}$ (87 PSI)
- Temperature: $-30 \text{ }^\circ\text{C} \dots +200 \text{ }^\circ\text{C}$ (-22 °F ... +392 °F)
- Sliding velocity: $v_g = 0 \dots 2 \text{ m/s}$ (0 ... 6 ft/s)
- Axial movement: $\pm 3.0 \text{ mm}$
- Radial movement: 1.0 mm (up to 3 mm on request)

Materials

- Lip sealing element: bright chemically highly resistant PTFE-compound with FDA
- Secondary seals: FKM (V)
- Metallic parts: 316L / 1.4404

Features

- For top entry drives, on request other drives possible
- Dry-running
- Modular and flexible design
- Compensation of shaft deflection by patented technology
- Independent of direction of rotation
- Cartridge unit

Advantages

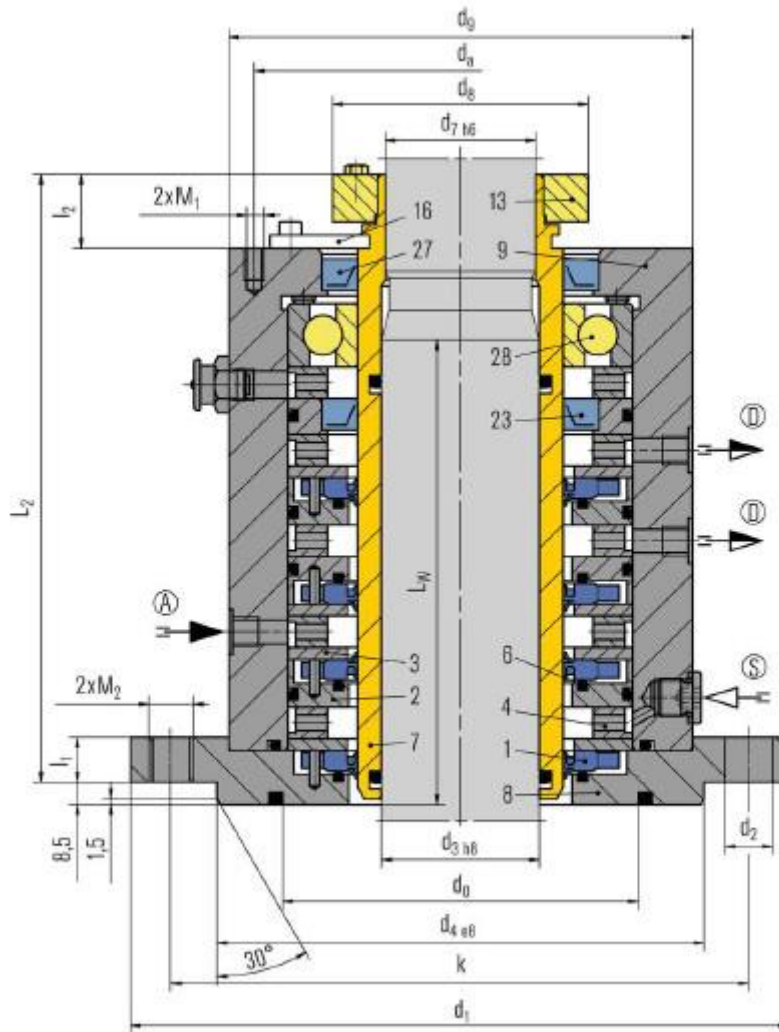
- Available as a ready-to-mount cartridge for quick and easy installation
- Tested technology ensures safe use
- Dry-running lip seal - depending on the application no supply system is necessary
- No additional rolling bearing required, but optionally available
- Sealing element made of bright chemically highly resistant PTFE compound
- ATEX certificate on request
- Customized adjustments possible

Recommended applications

- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Food and beverage industry
- Agitators
- Mixers
- Reactors

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Agitator seal Mechanical Seal HBSLIP481



Item	Description
1	Lip seal
2	Inset
3	Disc
4	Insert ring
6	O-Ring
7	Shaft sleeve
8	Flange
9	Housing
13	Shrink disc
16	Setting device
23	Spacer ring
27	Lip seal
28	Sliding bearing

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Dimension Table

d ₃	d ₁	nxd ₂	d ₄	d ₀	k	d ₈	d ₉	L ₁	l ₁	l ₂	d _a	M ₁	M ₂	S
40	175	4×18	110	90	145	80	175	91.5	19.5	26	145	M8	M16	G1/4
50	240	8×18	176	135	210	90	168	91.5	19.5	28	153	M8	M16	G1/4
60	240	8×18	176	135	210	100	178	91.5	18	27.5	155	M8	M16	G1/4
80	275	8×22	204	155	240	130	198	100.5	21	33.5	175	M8	M20	G1/4
100	305	8×22	234	190	270	150	218	102.5	23	33.5	195	M8	M20	G1/4
125	330	8×22	260	215	295	179	243	107.5	23	38.5	220	M8	M20	G1/4

d ₃	d ₇	d ₁	nxd ₂	d ₄	d ₀	k	d ₈	d ₉	L ₂	L _w	l ₁	l ₂	d _a	M ₁	M ₂	A, D, S
40	38	175	4×18	110	90	145	80	175	198.5	143	19.5	27.5	145	M8	M16	G1/4
50	48	240	8×18	176	135	210	90	168	205.5	148	19.5	29	155	M8	M16	G1/4
60	58	240	8×18	176	135	210	100	178	205.5	158	18	29	155	M8	M16	G1/4
80	78	275	8×22	204	155	240	130	198	216.5	168	21	35	184	M8	M20	G1/4
100	98	305	8×22	234	190	270	150	218	232.5	178	23	37	195	M8	M20	G1/4
125	120	330	8×22	260	215	295	179	243	245.5	203	23	47	222	M8	M20	G1/4

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