

HBrinker Mechanical Seal

Agitator seal Mechanical Seal HBSLIP461



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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
- Secondary seals: FKM (V)
- Adapter: AL-Oxid
- Metallic parts: 316L /1.4404

Features

- For top entry drives, on request for side and bottom entry drives
- For glass-lined vessels
- Dry-running
- Modular and flexible design
- Compensation of shaft deflection by patented technology
- Independent of direction of rotation
- Cartridge unit With or without bearing available

Advantages

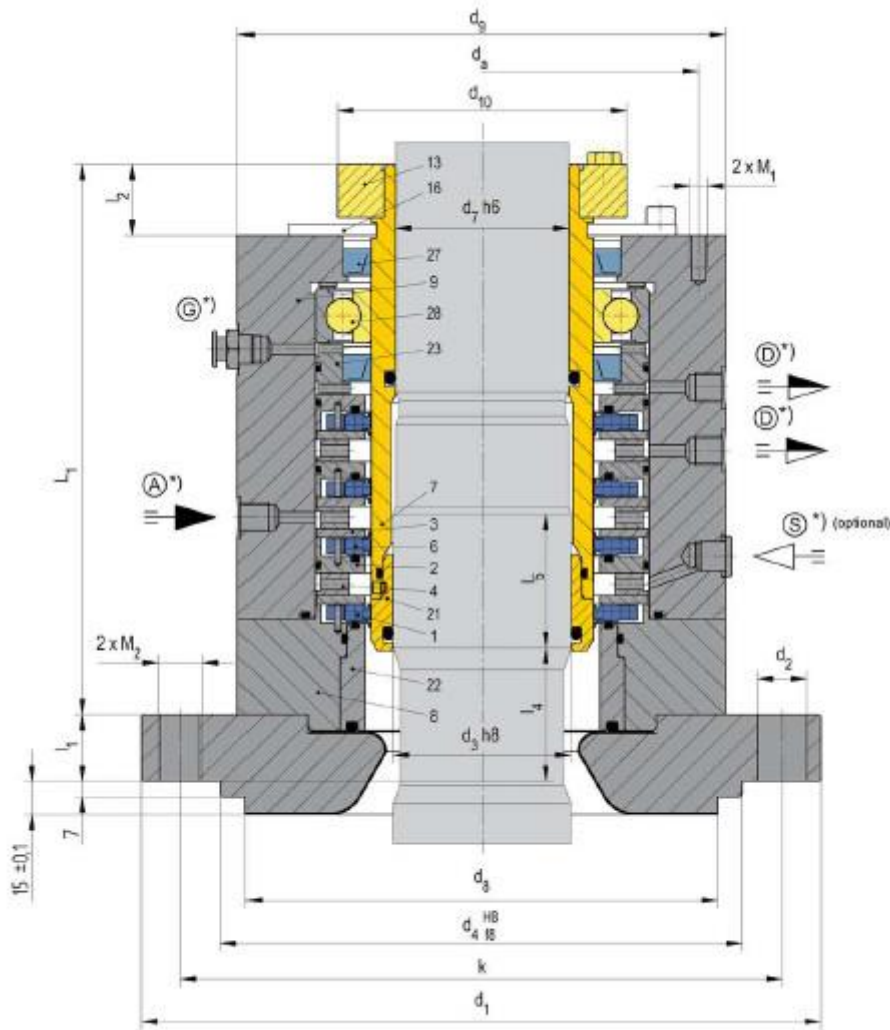
- Available as a ready-to-mount cartridge for quick and easy installation
- Ready-to-fit and factory-tested units
- Safe and environmentally compatible technology
- The glass-lined flange does not have to be replaced - an adaptation is possible
- No monitoring necessary
- No cost-intensive supply system necessary
- Low maintenance requirements
- No additional roller bearing necessary, but optionally available
- Sealing element made of bright chemically highly resistant PTFE compound
- ATEX certification available on request
- Customized adjustments possible

Recommended applications

- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Non-toxic media
- Agitators
- Mixers
- Reactors

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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

$d_3^{1)}$	$d_7^{1)}$	Nominal size	Flange size ²⁾	d_1	$n \times d_2^{2)}$	d_4	$n \times d_5$	d_6	d_8	k	d_9	d_{10}	L_1	l_1	l_2	d_a	M_1	M_2	A, D, S
40	38	40	E125	175	4×18	110	–	–	102	145	175	80	216.5	25	26	150	M8	M16	G1/4
50	48	50	E200	240	8×18	176	–	–	138	210	177	90	222	25	26	160	M8	M16	G1/4
60	58	60	E250	240	8×18	204	–	–	188	240	195	100	232	25	26	176	M8	M20	G1/4
80	78	80	E300	275	8×22	234	–	–	212	270	219	130	247	30	32	195	M8	M20	G1/4
100	98	100	E400	305	8×22	313	–	–	268	350	249	150	263	30	37	200	M8	M20	G1/4
100	98	100	E500	305	8×22	313	–	–	268	350	249	150	263	30	37	200	M8	M20	G1/4
125	120	100	E700	330	8×22	422	12×22	320	306	460	286	174	276	30	47	222	M8	M20	G1/4

