

HBrinker Mechanical Seal

Agitator seal Mechanical Seal HBSMIX461



H-Brinker

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IRANSEAL
Mechanical Seal



Mechanical Seal HBSMIX461

Operating range

Shaft diameter: $d_1 = 40 \dots 160 \text{ mm}$ (1.57" ... 6.3")

Pressure: $p_1 = \text{vacuum} \dots 6 \text{ bar}$ (87 PSI)

Temperature: $t_1 = -20 \text{ }^\circ\text{C} \dots +200 \text{ (250}^*) \text{ }^\circ\text{C}$ (-4 °F ... +392 (482*)) °F

Sliding velocity: $v_g = 0 \dots 2 \text{ m/s}$ (0 ... 6 ft/s)

Materials

- Seal face: Carbon graphite, FDA conform
- Seat: Silicon carbide, FDA conform
- Secondary seals and metal parts according to application and customer's specifications.

Features

- For top entry drives
- For glass-lined vessels acc. to DIN resp. Non-DIN
- Dry running
- Nitrogen pressurized dual seal
- Balanced
- Multiple springs rotating
- Independent of direction of rotation

Advantages

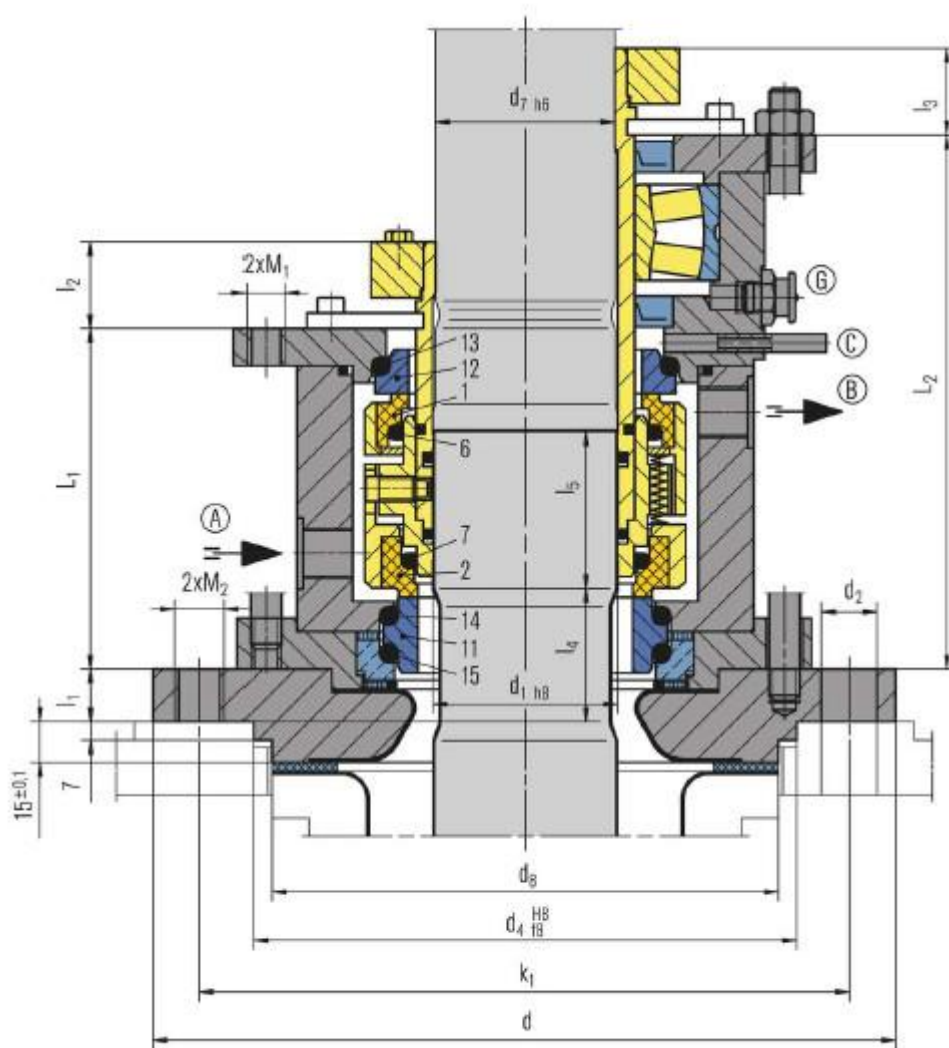
- Ready-to-fit and factory-tested unit
- With or without bearing available
- Suitable for pressure reversal e.g. in case of barrier pressure failure
- No contamination of the product by barrier fluid
- Friction-locked connection to the shaft
- Connections to DIN 28138 standards or as required (SeccoMix 491)
- ATEX certification available on request
- The seal can be lifted off the glass-lined flange as a complete cartridge. The sensitive glass-lined basic flange remains mounted on the vessel.

Recommended applications

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

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Item	Description
1	Seal face, atmosphere side
2	Seal face, product side
6,7,13,14,15	O-Ring
11	Seat, product side
12	Seat, atmosphere side

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Dimension Table

d ₁ ¹⁾	d ₇ ¹⁾	Nominal size	Flange size ²⁾	d	nxd ²	d ₄	nxd ₅	d ₆	d ₇	k ₁	k ₂	L ₁	L ₂	l ₁	l ₂	l ₃	l ₄	l ₅	M ₁	M ₂	A,B
40	38	40	E125	175	4×18	110	—	—	102	145	—	142	184	253	528	505	0	50	M12	M16	G3/8
50	48	50	E200	240	8×18	176	—	—	138	210	—	147	195	254	028	505	0	50	M12	M16	G3/8
60	58	60	E250	275	8×22	204	—	—	188	240	—	158	203	254	228	506	0	60	M12	M20	G3/8
80	78	80	E300	305	8×22	234	—	—	212	270	—	170	240	304	534	606	0	60	M16	M20	G1/2
100	98	100	E400	395	12×22	313	—	—	268	350	—	177	240	305	234	606	0	60	M16	M20	G1/2
100	98	100	E500	395	12×22	313	—	—	268	350	—	177	240	305	234	606	0	60	M16	M20	G1/2
125	120	125	E700	505	4×22	422	12×22	320	306	460	350	208	266	307	540	608	0	80	M20	M20	G1/2
140	135	140	E700	505	4×22	422	12×22	320	306	460	350	223	282	307	940	608	0	80	M20	M20	G1/2
160	150	160	E700	505	4×22	422	12×22	320	306	460	350	228	282	307	740	608	5	85	M20	M20	G1/2
160	150	160	E900	505	4×22	422	12×22	320	306	460	350	228	282	307	740	608	5	85	M20	M20	G1/2
160	150	161	E901	565	4×26	474	12×22	370	356	515	400	228	282	307	740	608	5	85	M20	M20	G1/2

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