

# HBrinker Mechanical Seal

Agitator seal Mechanical Seal HBSMIX461



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

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

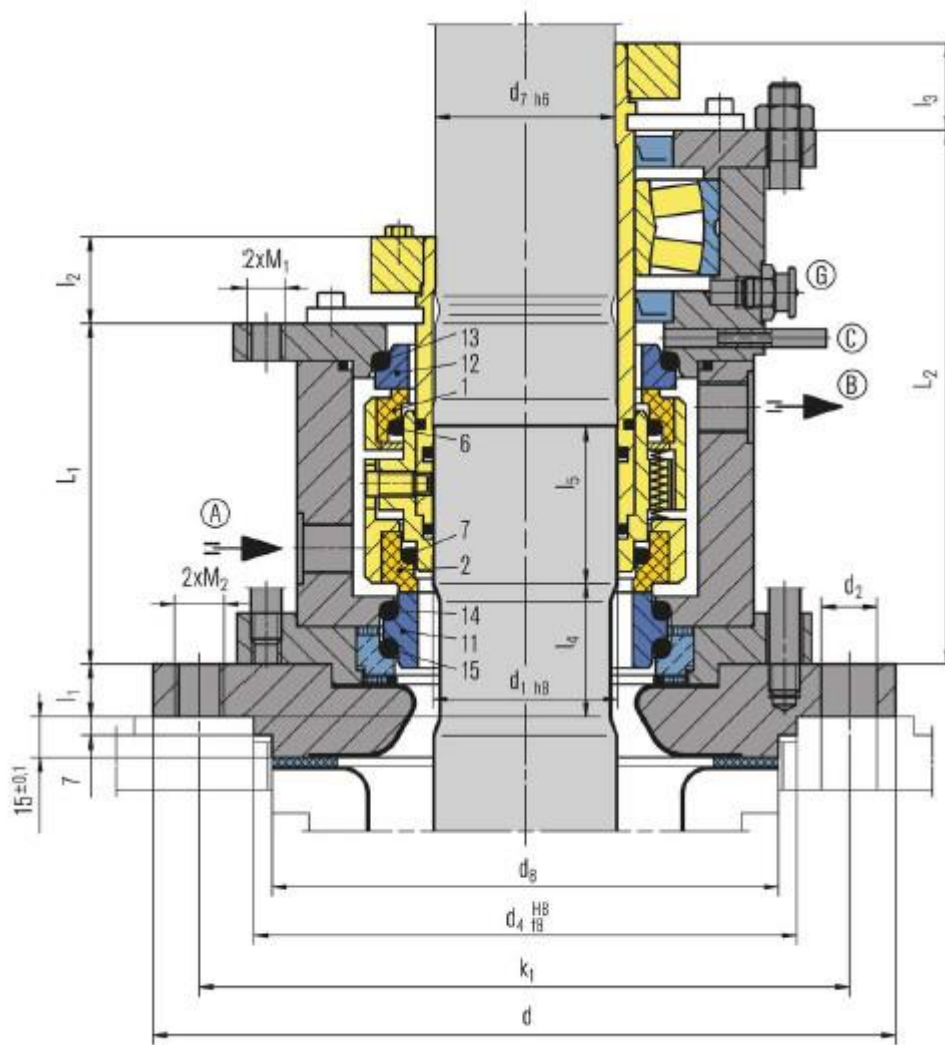
- Ready-to-fit and factory-tested unit
- With or without bearing available
- Suitable for pressure reversal e.g. in case of barrier pressure failure
- No contamination of the product by barrier fluid
- Friction-locked connection to the shaft
- Connections to DIN 28138 standards or as required (SeccoMix 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 <sub>1</sub> <sup>1)</sup>	d <sub>7</sub> <sup>1)</sup>	Nominal size	Flange size <sup>2)</sup>	d	nxd <sup>2</sup>	d <sub>4</sub>	nxd <sub>5</sub>	d <sub>6</sub>	d <sub>7</sub>	k <sub>1</sub>	k <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	M <sub>1</sub>	M <sub>2</sub>	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	402	850	50	0	M12	M16	G3/8
60	58	60	E250	275	8×22	204	–	–	188	240	–	158	203	254	422	850	60	0	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	0	85	M20	M20	G1/2
160	150	160	E900	505	4×22	422	12×22	320	306	460	350	228	282	307	740	608	0	85	M20	M20	G1/2
160	150	161	E901	565	4×26	474	12×22	370	356	515	400	228	282	307	740	608	0	85	M20	M20	G1/2

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