

# HBrinker Mechanical Seal

Elastomer Bellows Mechanical Seal HBH700



## Mechanical Seal HBH700



### Operating range

Shaft diameter:  $d_1 = 15 \dots 35 \text{ mm}$

Pressure:  $p_1 = 15 \text{ bar (218 PSI)}$ ,

vacuum up to 0.1 bar

Temperature:  $t = -20 \text{ }^\circ\text{C} \dots +100 \text{ }^\circ\text{C} (-4 \text{ }^\circ\text{F} \dots +212 \text{ }^\circ\text{F})$

Sliding velocity:  $v_g = 10 \text{ m/s (33 ft/s)}$

Axial movement:  $\pm 1.0 \text{ mm}$

### Materials

- Seal face: Carbon graphite resin impregnated (B), Silicon carbide (Q1, Q2)
- Seat: Aluminium oxide (V), Silicon carbide (Q1, Q2)
- Elastomer: NBR (P)
- Metal parts: CrNi steel (F)

### Features

- Single seal
- Stationary spring-loaded unit enables operation in high-range loads area
- Balanced
- In-house manufactured carbon seal faces

### Recommended applications

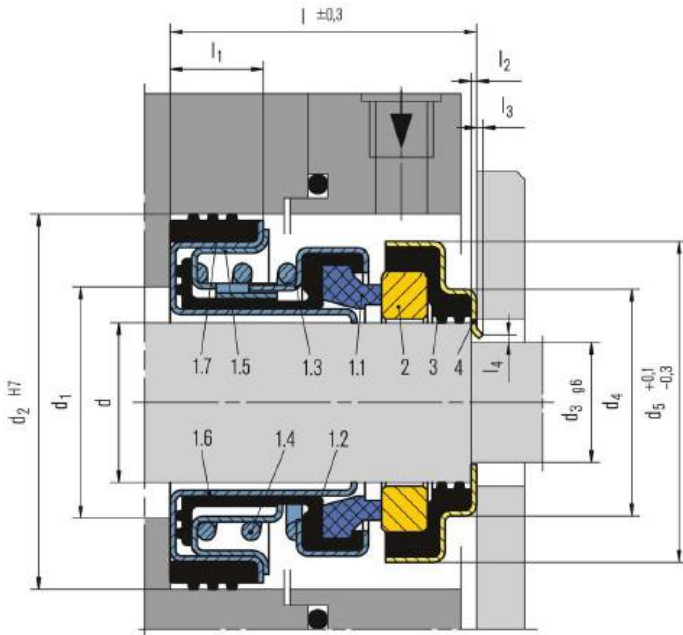
- Water and waste water technology
- Food and beverage industry
- Water and waste water
- Glycols
- Industrial pumps
- Engine pumps
- Skyscraper water supply pumps

### Advantages

The seal for stationary applications. The HBH700 is based on a unique stationary spring loaded unit that enables the seal to operate under high speed and high pressure. An additional advantage of the seal is the balanced design, which ensures good sealing performance in high-load conditions.

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Item	Description
1.1	Seal face
1.2	Bellows
1.3	Spring collar
1.4	Spring
1.5	Spring holder
1.6	Cartridge
1.7	Seat Ring
2	Seat
3	Corner sleeve
4	Case

Dimension Table in millimeter

d	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	l	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>
15	22	41	12	22	34	29.5	9.5	0.6	–	–	–
20	30	45	12	27.2	45	31	11	0.6	2	1	3.4
25	35	52	22	33.6	52	37	11.5	0.8	2.5	1	4.2
35	45	66	32	43.6	66	41.6	12.5	0.8	4	1	5.2