

# HBrinker Mechanical Seal

Elastomer Bellows Mechanical Seal HBA100



## Mechanical Seal HBA100

### Operating range

Shaft diameter:  $d_1 = 8 \dots 20 \text{ mm}$  (0.32" ... 0.78")

Pressure:  $p_1 = 5 \text{ bar}$  (73 PSI), vacuum up to 0.1 bar (1.45PSI)

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

Sliding velocity:  $v_g = 5 \text{ m/s}$  (16 ft/s)

Axial movement:  $\pm 2.0 \text{ mm}$

### Materials

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

### Features

- Single seal
- In-house manufactured carbon seal faces
- Three different impeller connections available

### Recommended applications

- Water and waste water technology
- Pool and spa applications
- Household appliances
- Domestic and garden pumps
- Whirlpool and swimming pool pumps
- Dishwasher pumps
- Submersible motors / pumps
- Water pumps / waste water pumps

### Advantages

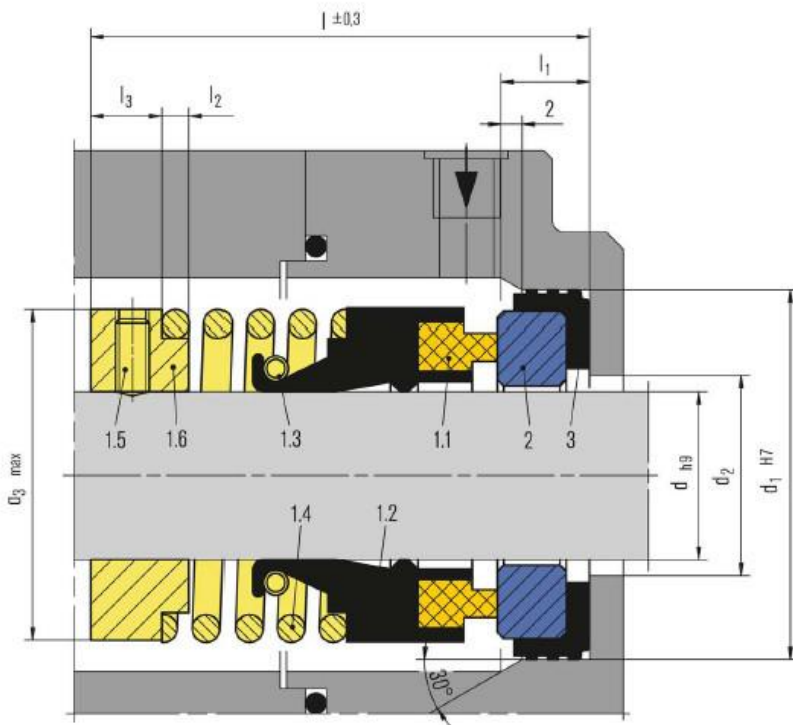
The HBA100 is the specialist for low duty applications and one of our historic and bestselling seals in this sector. The seal is easy to handle and quick to install. An incorporated garter spring assures a good grip of the bellows on the shaft and enhances satisfactory sealing performance. With the ability of the bellows to stretch and tighten, the HBA100 is insensitive to shaft movements.

The seal design is available in 3 types, each with a different impeller connection: o HBA102 is with a collar. HBA103 is without a collar.

HBA104 provides a different coil spring installation. More information on HBA103 and HBA104 is available on request.

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Item	Description
1.1	Seal face
1.2	Bellows
1.3	Garter spring
1.4	Spring
1.5	Set screw
1.6	Collar
2	Seat
3	Corner sleeve

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Dimension Table in millimeter

d	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	l	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>
8	21	13	18.5	26	7	2	8
9	24	16	22.5	31	7	2	8
10	24	16	22.5	31	7	2	8
11	24	16	22.5	31	7	2	8
12	26	17	24.5	32	7	2	8
13	26	17	24.5	32	7	2	9
14	28	21	28.5	34	7	3	9
15	28	21	28.5	34	7	3	9
16	32	22	30.5	36	8	3	9
17	32	22	30.5	36	8	3	9
18	35	25	33.5	39	8	3	10
19	35	25	33.5	39	8	3	10
20	38	27	35.5	41	8	3	10

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