

# HBrinker Mechanical Seal

Pusher seals Mechanical Seal HB10 – HB08



## Mechanical Seal HB7N

### Operating range

Shaft Diameter:  $d_1 = 15 \dots 100 \text{ mm}$  (0.6" ... 3.9")

Pressure:  $p_1 = 25 \text{ bar}$  (363 PSI)

Temperature:  $t = -40 \dots +180 \text{ }^\circ\text{C}$  (-40 °F ... 356 °F)

Sliding velocity:  $v_g = 35 \text{ m/s}$  (115 ft/s)

### Materials

Seal face: Carbon graphite antimony  
impregnated (A), Carbon graphite resin  
impregnated (B)

### Features

- For stepped shafts
- Single seal
- Balanced
- Super-Sinus-spring or multiple springs rotating
- Independent of direction of rotation

### Advantages

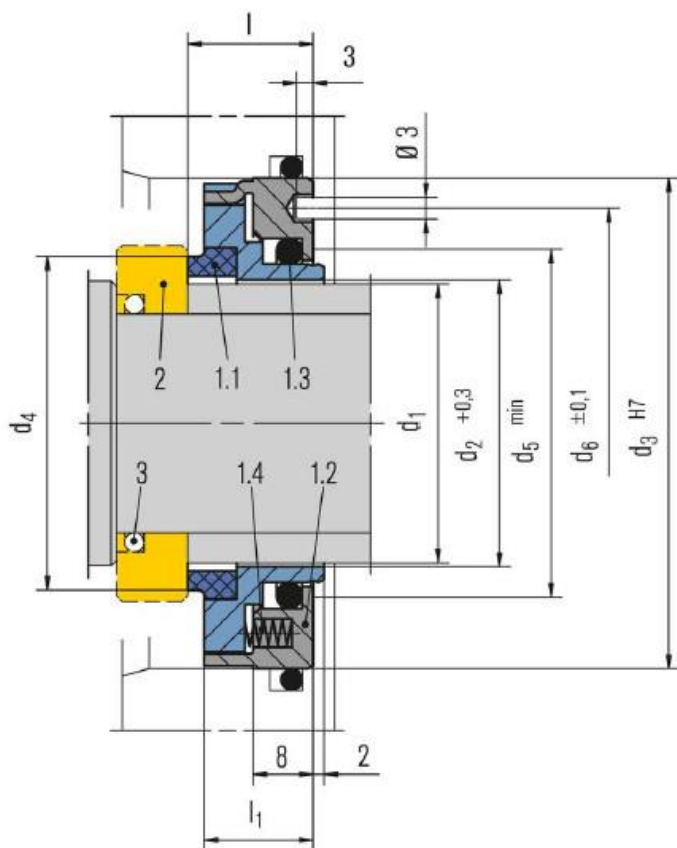
- Insensitive to solids in the medium
- Very short axial installation length (analog lip seals) combined with high pressure capability
- No damage of the shaft by dynamically loaded O-Ring
- Due to the stationary design insensitive to shaft misalignments
- Compact ready-to-install unit

### Recommended applications

- Process industry
- Chemical industry
- Water and waste water technology
- Lube oils
- Roller seal
- Bearing seal
- All seal chambers with a very short axial installation length

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Item	Part no. To DIN 24250	Description
1.1	472	Seal face
	473	Seal face housing
1.2	485	Drive collar
1.3		O-Ring
1.4	477	Spring
2	475	Rotating seat*)
3	412.2	O-Ring

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Dimension Table in millimeter

d <sub>1</sub>	d <sub>2</sub>	d <sub>2</sub> '	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	l	l <sub>1</sub>	l <sub>1</sub> '
15	16	17	42	22.6	21	34	17	15.0	16
18	19	–	45	25.6	24	37	17	15.0	–
20	21	22	48	27.6	26	40	17	15.0	16
22	23	24	50	29.6	28	42	17	15.0	16
25	26	27	52	32.8	31	44	17	15.0	16
28	29	–	55	35.8	34	47	17	15.0	–
30	31	32	58	37.8	36	50	17	15.0	16
32	33	34	60	39.8	38	52	17	15.0	16
35	36	37	62	42.8	41	54	17	15.0	16
38	39	40	65	45.9	44	57	17	15.0	16
40	41	42	68	47.9	46	60	17	15.0	16
42	43	44	72	49.9	48	64	17	15.0	16
45	46	47	75	52.9	51	67	17	15.0	16
48	49	–	80	55.9	54	72	17	15.0	–
50	51	52	80	58.2	56	72	17	15.0	16
52	53	–	82	60.2	58	74	17	15.0	–
55	56	57	85	63.2	61	77	17	15.0	16
58	59	–	90	66.7	64	82	17	15.0	–
60	61	62	90	68.7	66	82	17	15.0	16
65	66	67	95	73.7	71	87	19	16.5	18
68	69	70	100	76.7	74	92	19	16.5	18
70	71	72	100	78.7	76	92	19	16.5	18
75	76	77	108	83.7	81	100	19	16.5	18
80	81	82	112	88.7	86	104	19	16.5	18
85	86	87	118	93.7	91	110	19	16.5	18
90	91	92	122	99.5	96	114	19	16.5	18
95	96	97	128	104.5	101	120	19	16.5	18
100	101	102	132	109.5	106	124	19	16.5	18