



## Mechanical Seal HBHJ

shaft diameter:  $d_1 = 18 \dots 100 \text{ mm}$  (0.71" ... 4")

Pressure:  $p_1^*) = \text{vacuum} \dots 40 \text{ bar}$  (vacuum ... 580 PSI)

Temperature:  $t = -50 \text{ }^\circ\text{C} \dots +220 \text{ }^\circ\text{C}$  (-58 °F ... +430 °F)

Sliding velocity:  $v_g = 20 \text{ m/s}$  (66 ft/s)

Axial movement:

$d_1 = 18 \dots 25 \text{ mm}: \pm 0,5 \text{ mm}$

$d_1 = 28 \dots 55 \text{ mm}: \pm 0,8 \text{ mm}$

$d_1 = 60 \dots 100 \text{ mm}: \pm 1,0 \text{ mm}$

\* An integral stationary seat lock is not needed within the permissible low pressure range. For prolonged operation under vacuum it is necessary to arrange for quenching on the atmospheric side.

### Features

- For unstepped shafts
- Single seal
- Balanced
- Independent of direction of rotation
- Encapsulated rotating spring

### Materials

- Seal face: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (eSIC-Q7)
- Seat G6: Silicon carbide (eSIC-Q7)
- Secondary seals: E, EL, V, V16, K, KL, P
- Springs: CrNiMo steel (G)
- Face housing: CrNiMo steel (G)
- Driver: Duplex (G1)

### Advantages

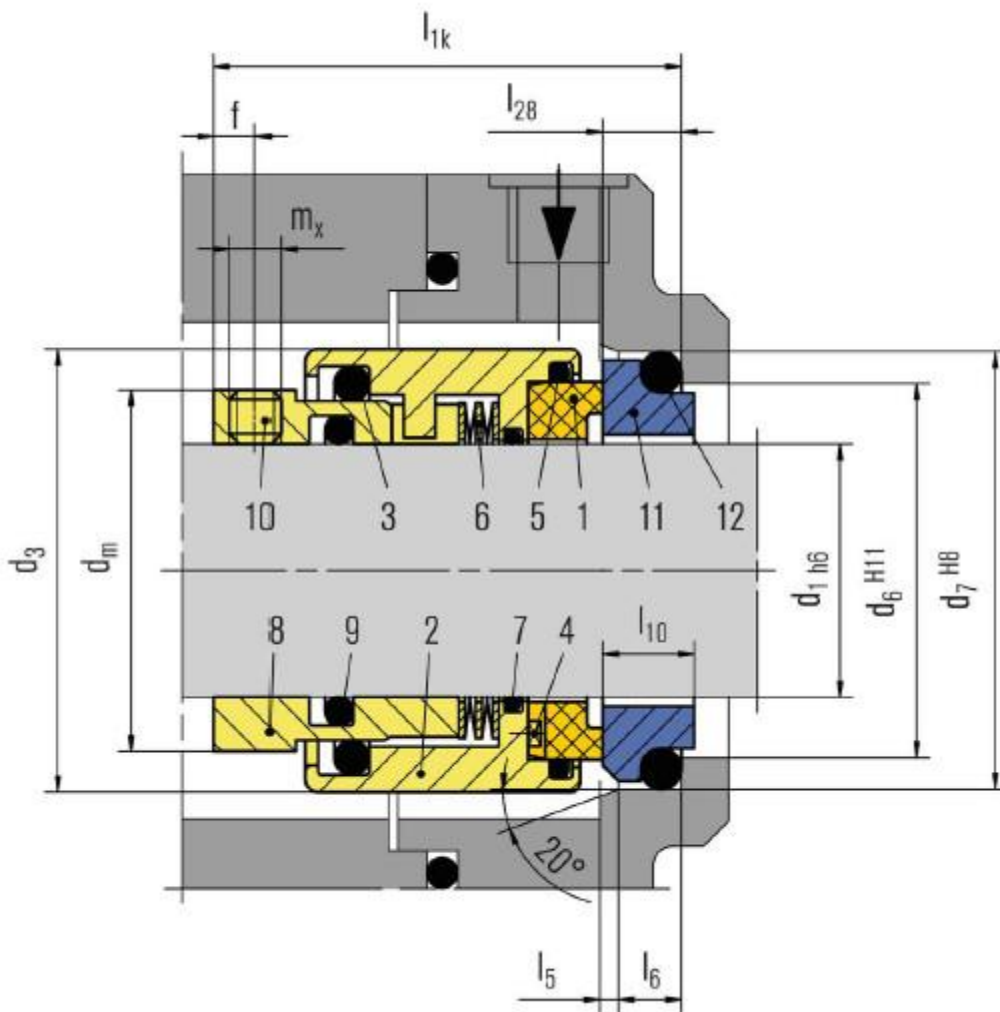
- Especially designed for solids containing and highly viscous media
- Springs are protected from the product
- Rugged and reliable design
- No damage of the shaft by dynamically loaded O-Ring
- Universal application
- Variants for sterile operation available
- Increased axial movement
- DiamondFace coating possible
- Spring protection and vibration damping
- Insensitive to temperature changes
- 100 % compatible to HJ9... for I1k

### Recommended applications

- v
- Water and waste water technology
- Drinking water
- Chemical industry
- Oil and Gas
- Petrochemical industry
- Refining technology
- Pulp and paper industry
- Power plant technology
- Mining industry
- Metal production and processing
- Special applications (Cement, ...)
- Shipping Industry

# HBrinker Mechanical Seal

Pusher seals Mechanical Seal HBHJ



Item	Description
1	Seal face
2	Face housing
3,5,7,9,12	O-Ring
4	Square pin
6	Spring
8	Driver
10	Set screw
11	Seat

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Dimension Table in millimeter

d <sub>1</sub>	d <sub>3</sub>	d <sub>6</sub>	d <sub>7</sub>	d <sub>m</sub>	l <sub>1K</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>10</sub>	l <sub>28</sub>	f	m <sub>x</sub>
18	32	27	33	26	37.5	2	5	8.5	7.5	2.8	M4
20	34	29	35	28	37.5	2	5	8.5	7.5	2.8	M4
22	36	31	37	30	37.5	2	5	8.5	7.5	2.8	M4
24	38	33	39	32.5	40	2	5	8.5	7.5	3.3	M5
25	39	34	40	33.5	40	2	5	8.5	7.5	3.3	M5
28	42	37	43	36.5	42.5	2	5	8.5	7.5	3.3	M5
30	44	39	45	38.5	42.5	2	5	8.5	7.5	3.3	M5
32	47	42	48	40.5	42.5	2	5	8.5	7.5	3.3	M5
33	47	42	48	41.5	42.5	2	5	8.5	7.5	3.3	M5
35	49	44	50	43.5	42.5	2	5	8.5	7.5	3.3	M5
38	54	49	56	47.5	45	2	6	10	9	3.3	M5
40	56	51	58	49.5	45	2	6	10	9	3.3	M5
43	59	54	61	52.5	45	2	6	10	9	3.3	M5
45	61	56	63	54.5	45	2	6	10	9	3.3	M5
48	64	59	66	57.5	45	2	6	10	9	3.3	M5
50	66	62	70	59.5	47.5	2.5	6	10.5	9.5	3.8	M6
53	69	65	73	62.5	47.5	2.5	6	12	11	3.8	M6
55	71	67	75	64.5	47.5	2.5	6	12	11	3.8	M6
60	80	72	80	70.5	52.5	2.5	6	12	11	3.8	M6
65	85	77	85	75.5	52.5	2.5	6	12	11	3.8	M6
70	90	83	92	84	60	2.5	7	12.5	11.3	5	M8
75	99	88	97	89	60	2.5	7	12.5	11.3	5	M8
80	104	95	105	94	60	3	7	13	12	5	M8
85	109	100	110	99	60	3	7	15	14	5	M8
90	114	105	115	104	65	3	7	15	14	5	M8
95	119	110	120	109	65	3	7	15	14	5	M8
100	124	115	125	114	65	3	7	15	14	5	M8

Seat alternatives

