



Mechanical Seal HBT-PN

Operating range

Shaft diameter: $d_1 = 8 \dots 40 \text{ mm}$ (0.31" ... 1.57")

Pressure: $p_1 = 12 \text{ bar}$ (174 PSI),

vacuum ... 0.5 bar (7.45 PSI)

Temperature: $t = -20 \text{ }^\circ\text{C} \dots +120 \text{ }^\circ\text{C}$ (-4 °F ... +248 °F)

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

Materials

- Seal face: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (Q1, Q6)
- Seat: Aluminium oxide (V), Steatite (X), Silicon carbide (Q1, Q6, Q7)
- Elastomers: NBR (P), FKM (V), EPDM (E)
- Metal parts: CrNi steel 1.4301 (F), CrNiMo steel 1.4401 (G)

Features

- Rubber bellows mechanical seals
- Unbalanced
- Single spring
- Independent of direction of rotation

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Recommended applications

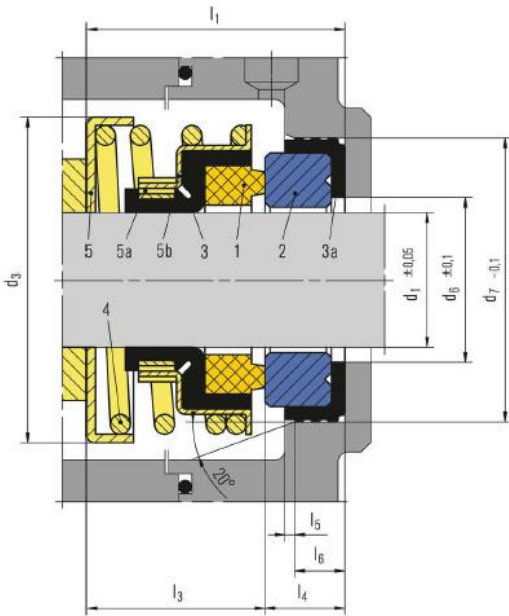
- Water and waste water technology
- Pool and spa applications
- Household appliances
- Domestic and garden pumps
- Whirlpool and swimming pool pumps
- Dishwasher pumps
- Submersible motors / pumps
- Water pumps / waste water pumps

Advantages

The HBTPN is a large series mechanical seal with a simple yet effective design that is easy to assemble. The special spring arrangement allows a short axial installation length. This advantage is combined with an increased working pressure capability of up to 12 bar (174 PSI). The spring is free from torque transmission.

HBrinker Mechanical Seal

Elastomer Bellows Mechanical Seal HBT-PN



Item	Description
1	Seal face
2	Stationary seat
3	Bellows
3a	Gasket
4	Spring
5	Ring
5a	Drive ring
5b	collar

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HBrinker Mechanical Seal

Elastomer Bellows Mechanical Seal HBT-PN



Dimension Table in millimeter

d ₁	d ₃	d ₆	d ₇	l ₁	l ₃	tol	l ₄	l ₅	l ₆
8.00	23	10	22.0	17.5	13.5	±1.0	4.0	0.5	3.5
8.00	23	10	25.4	19.0	13.5	±1.0	5.5	0.5	4.5
9.53	23	12	25.4	19.0	13.5	±1.0	5.5	0.5	4.5
10.00	23	12	25.4	19.0	13.5	±1.0	5.5	0.5	4.5
13.00	32	17	29.5	20.8	12.8	+0.7/0	8.0	1.0	6.0
13.00	32	17	29.5	20.8	12.8	+0.7/0	8.0	1.0	6.0
14.00	32	17	29.5	20.8	12.8	+0.7/0	8.0	1.0	6.0
15.00	32	17	29.5	20.8	12.8	+0.7/0	8.0	1.0	6.0
16.00	32	17	29.5	20.8	12.8	+0.7/0	8.0	1.0	6.0
16.00*	32	17	29.5	24.3	16.3	+0.7/0	8.0	1.0	6.0
16.00*	32	17	29.5	24.3	16.3	+0.7/0	8.0	1.0	6.0
20.00	44	22	42.0	22.0	14.0	±1.0	8.0	1.0	6.0
20.00	44	22	42.0	22.0	14.0	±1.0	8.0	1.0	6.0
25.00	50	27	45.0	27.0	17.0	±1.0	10.0	1.0	8.0
30.00	60	33	52.0	32.0	22.0	±1.0	10.0	1.0	6.0
30.00	60	33	52.0	34.0	22.0	±1.0	12.0	1.5	8.5

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