

HBrinker Mechanical Seal

Standard Cartridge Seal

Mechanical Seal HBITEX



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Operating range

Shaft diameter: dN = 25 ... 75 mm (1" ... 2.625")

Pressure: p1 = 12 bar (174 PSI)

Temperature: t = -20 °C ... 140 °C (-4 °F ... 284 °F)

Sliding velocity: v_g = 10 m/s (33 ft/s)

Axial movement: ±0.5 mm

Materials

- Seal face: Carbon graphite resin impregnated (B), Silicon carbide (Q1)
- Seat: Silicon carbide (Q1)
- Secondary seals: FKM (V), EPDM (E)
- Metal parts: CrNiMo steel (G), CrNiMo cast steel (G)

Features

- Single cartridge seal
- Elastomer bellows
- Unbalanced
- Independent of direction of rotation
- Rotating spring
- Bellows and spring free from torsion
- Metric and inch sizes available

Advantages

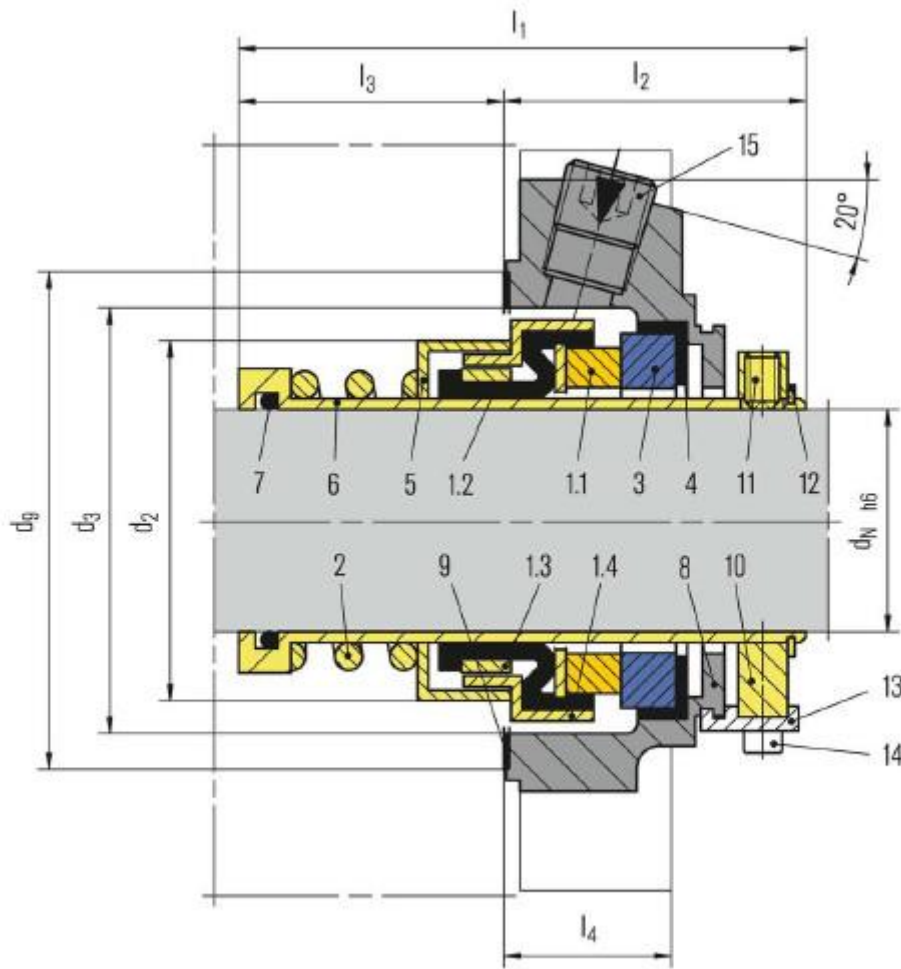
- Straightforward and easy installation
- Fits into any installation space due to smallest outer diameter
- Important material certifications available
- Universal application opportunities (standardization)
- No modifications of the pump's installation chamber necessary
- Economical cartridge solution
- Comes with flush connection acc. to API 682, Plan 11 for seal chamber cleaning and cooling

Recommended applications

- Chemical industry
- Pulp and paper industry
- Water and waste water technology
- Sewage water
- Cold and hot water
- Cooling fluids
- Beverages
- Diluted lyes and acids
- Suspensions with low solids content
- Circulating pumps
- Water and waste water pumps
- Production of pressure oils for bio diesel fuels

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Item	Description	Item	Description
1	Bellows unit	7	O-ring
1.1	Seal face	8	Cover
1.2	Bellows	9	Gasket
1.3	Drive collar	10	Drive collar
1.4	L-ring (spring collar)	11	Set screw
2	Spring	12	Snap ring
3	Seat (G60)	13	Assembly fixture
4	O-Ring or corner sleeve	14	Socket head screw
5	Spacer ring	15	Screw plug
6	Shaft sleeve		

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Dimension Table in millimeter

d_N	d_2	d_3 min	d_3 max	d_9	d_a	a	s	l_1	l_2	l_3	l_4	t
25	38.4	41.5	51.0	60	105	62	13.2	65.5	41.0	24.5	23	1/4 NPT
28	42.4	44.5	52.0	60	105	62	13.2	68.0	41.5	26.5	23	1/4 NPT
30	42.4	45.5	56.0	63	105	67	13.2	68.0	41.5	26.5	23	1/4 NPT
33	45.0	48.0	57.0	65	110	67	13.2	69.5	42.0	27.5	23	1/4 NPT
35	49.1	50.8	61.5	68	107	70	13.2	72.5	44.0	28.5	26	1/4 NPT
38	51.3	54.5	66.0	73	123	75	14.7	72.5	44.0	28.5	26	1/4 NPT
40	54.3	57.5	68.0	75	123	77	14.7	75.5	44.5	31.0	26	1/4 NPT
43	56.3	59.5	70.5	78	133	80	14.7	76.5	44.5	32.0	26	1/4 NPT
45	59.8	63.0	73.0	79	130	82	14.2	76.5	44.5	32.0	26	1/4 NPT
48	61.8	65.0	75.0	82	130	84	14.2	78.0	45.0	33.0	26	1/4 NPT
50	64.8	68.0	78.0	85	148	87	14.7	80.5	47.0	33.5	28	3/8 NPT
53	66.8	70.0	87.0	95	148	97	17.5	81.5	47.0	34.5	28	3/8 NPT
55	71.0	73.0	83.0	90	148	92	17.5	83.5	47.0	36.5	28	3/8 NPT
60	76.5	79.0	91.0	100	157	102	17.5	85.5	47.0	38.5	28	3/8 NPT
65	83.0	85.7	98.5	108	162	110	17.5	88.0	48.5	39.5	28	3/8 NPT
70	88.0	94.0	108.0	116	178	118	17.5	92.0	48.5	43.5	28	3/8 NPT
75	93.4	98.4	118.0	125	190	127	17.5	93.5	49.0	44.5	28	3/8 NPT

Seat alternatives

