Mechanical Seal HBA560

Operating range

Shaft diameter: d1 = 8 … 50 mm (0.375" … 2")

Pressure: p1 = 7 bar (102 PSI),

vacuum … 0.1 bar (1.45 PSI)

Temperature: t = -20 °C … +100 °C (-4 °F … +212 °F)

Sliding velocity: vg = 5 m/s (16 ft/s)

Materials

- Seal face: Carbon graphite resin impregnated (B), Silicon carbide (Q1, Q2)
- Seat: Aluminium oxide (V), Silicon carbide (Q1, Q2)
- Elastomer: NBR (P), FKM (V)
- Metal parts: CrNi steel (F)

Features

- Single seal
- Loosely inserted seal face provides
- self-adjusting capability
- In-house manufactured sliding parts
  v

Recommended applications

- Water and waste water technology
- Chemical industry
- Process industry
- Water and waste water
- Glycols
- Oils
- Industrial pumps/equipment
- Submersible pumps
- Engine pumps

Advantages

The HBA560 is self-adjusting to shaft misalignments and deflections because of the loosely inserted seal face as well as the ability of the bellows to stretch and tighten.

The length of the contact area of the bellows with the shaft is an optimum compromise between ease of assembly (less friction) and sufficient adhesive force for torque transmission. Additionally the seal fulfills very specific leakage requirements. Because the sliding parts are made in-house, a wide variety of special needs can be accommodated.
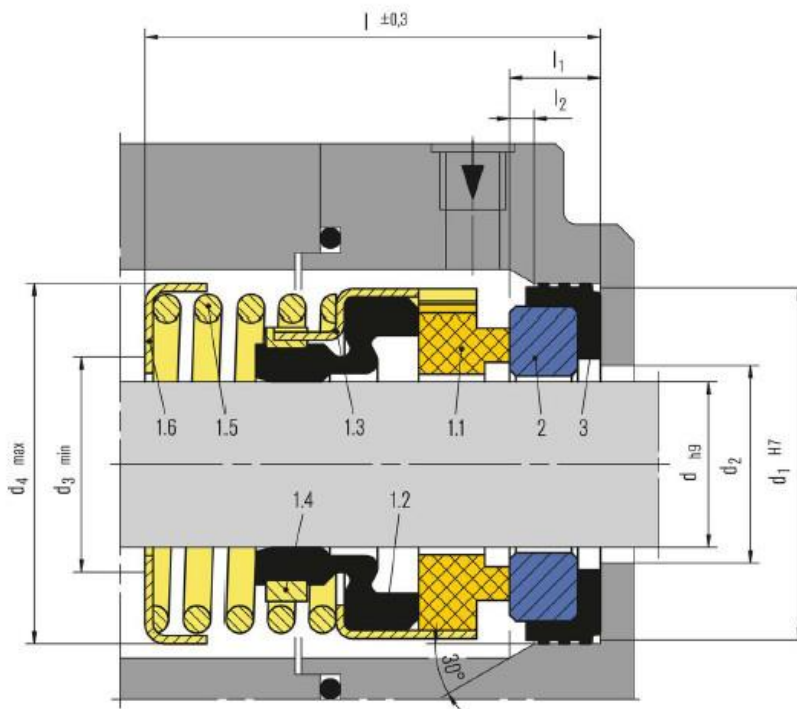
Item	Description
1.1	Seal face
1.2	Bellows
1.3	Spring collar
1.4	Drive collar
1.5	Spring
1.6	Spring holder
2	Seat
3	Corner sleeve

Dimension Table in millimeter

d	d_1	d_2	d_3	d_4	l	l_1	l_2
8	21	13	12	20.0	18	7	2
9	24	16	13	21.0	23	7	2
10	24	16	14	23.5	23	7	2
11	24	16	15	23.5	23	7	2
12	26	17	16	26.0	24	7	2
13	26	17	17	26.0	24	7	2
14	28	21	18	28.0	25	7	2
15	28	21	19	28.0	25	7	2
16	32	22	20	30.0	27	8	2
17	32	22	21	32.5	27	8	2
18	35	25	22	32.5	26	8	2
19	35	25	23	32.5	26	8	2
20	38	27	24	35.5	28	8	2
22	40	29	26	37.5	28	8	2
25	44	32	29	42.0	29	9	2
28	46	34	32	45.5	30	9	2
30	50	38	35	48.0	31	9	2
32	54	40	37	50.0	33	9	2
35	58	44	40	54.5	36	10	2
38	60	46	43	58.5	37	10	2
40	64	48	45	62.5	38	10	2
45	66	52	50	66.5	40	10	2
50	72	58	55	72.5	42	10	2