EagleBurgmann
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RELY ON EXCELLENCE

EA560

Mechanical seals | Mechanical seals for pumps | Elastomer bellows seals

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

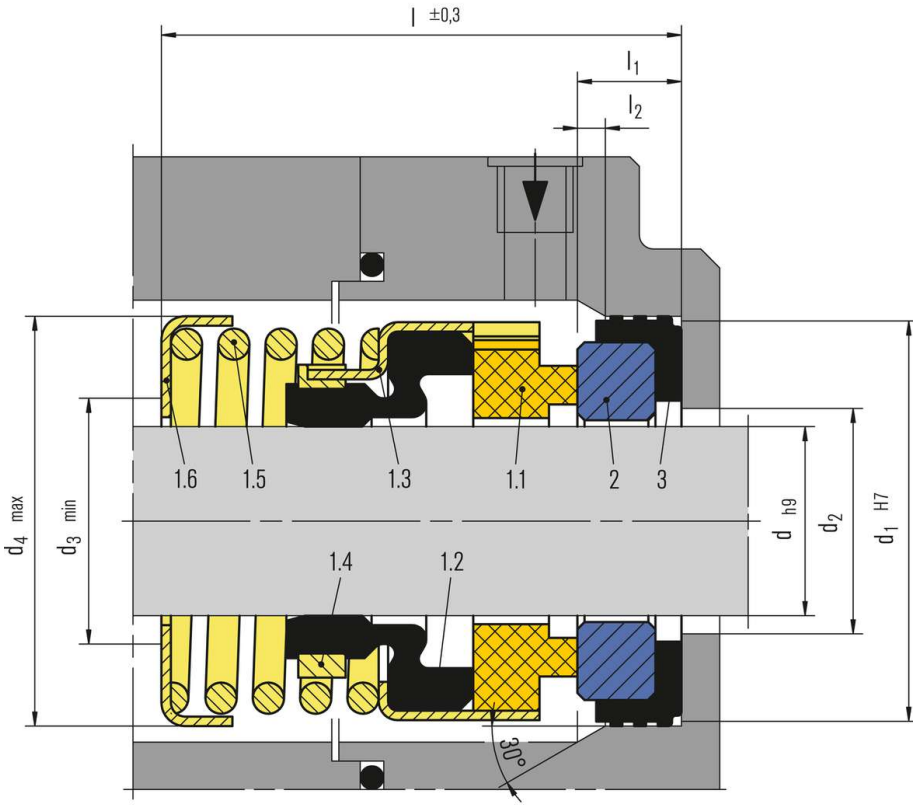
Advantages
The EA560 is self-adjusting to shaft misalignments and deflections because of the loosely inserted seal face as well as the ability of the bellows to stretch and tighten. The length of the contact area of the bellows with the shaft is an optimum compromise between ease of assembly (less friction) 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.

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)
Axial movement: ±1.0 mm

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)

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

eagleburgmann.com
info@eagleburgmann.com



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

Dimensions

d	d	d_1	d_2	d_3	d_4	l	l_1	l_2
0.375	9.525	22.225	14.3	12.7	23.5	28.6	6.4	1
0.500	12.700	25.400	17.5	15.9	26.0	28.6	6.4	1
0.625	15.875	31.750	20.6	19.1	30.0	32.5	8.7	1
0.750	19.050	34.925	23.8	22.2	32.5	32.5	8.7	1
0.875	22.225	38.100	27.0	25.4	37.5	34.1	8.7	1
1.000	25.400	41.275	30.2	28.6	44.0	36.5	9.5	1
1.125	28.575	44.450	33.3	31.8	48.0	38.1	9.5	1
1.250	31.750	47.625	36.5	34.9	50.0	38.1	9.5	1
1.375	34.925	50.800	39.7	38.1	54.5	39.7	9.5	1
1.500	38.100	53.975	42.9	41.3	58.5	39.7	9.5	1
1.625	41.275	60.325	46.0	44.5	64.0	47.6	11.1	1
1.750	44.450	63.500	49.2	47.6	67.0	47.6	11.1	1
1.875	47.625	66.675	52.4	50.8	71.0	50.8	11.1	1
2.000	50.800	69.850	55.6	54.0	73.5	50.8	11.1	1

Dimensions in inch

Dimensions

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

Dimensions in millimeter