EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

BT-C7

Mechanical Seals | Mechanical seals for pumps | Pusher seals

Features

- Single seal
- For plain shafts
- Unbalanced
- Super-sinus spring rotating
- Independent of direction of rotation

Notes

Alternative seat rings can be supplied with short tail or long tail with slot for pin (to prevent seat rotation).

Advantages

- Universal application opportunities
- Robust design
- Insensitive to low solid content
- Torque transmission by set screws
- Variants with shrink fitted face available

Operating range

Shaft diameter:
d1 = 16 ... 100 mm (0.63" ... 3.94")

Pressure:
p1* = 12 bar (16 bar) (174 PSI)

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

Sliding velocity:
vg = 20 m/s (66 ft/s)

* Dependent on medium, size and material

Materials

Seal face:
CrNiMo steel (G),
Tungsten carbide (U),
Silicon carbide (Q1)

Seat:
Carbon graphite antimony impregnated (A),
Carbon graphite resin impregnated (B),
Tungsten carbide (U), Silicon carbide (Q1)

Elastomers:
NBR (P), EPDM (E), FKM (V), FFKM (K)

Metal parts:
CrNiMo steel 1.4401 (G)

Standards and approvals

Various material approvals e.g. WRAS, UBA, ACS, NSF, FDA available (depending on type and material combinations). Please inquire!

- EN 12756

Recommended applications

- Water and wastewater technology
- Chemical industry
- Process industry
- Building services industry
- Low solid content media
- Centrifugal pumps
- Multistage pumps
- Cooling water pumps

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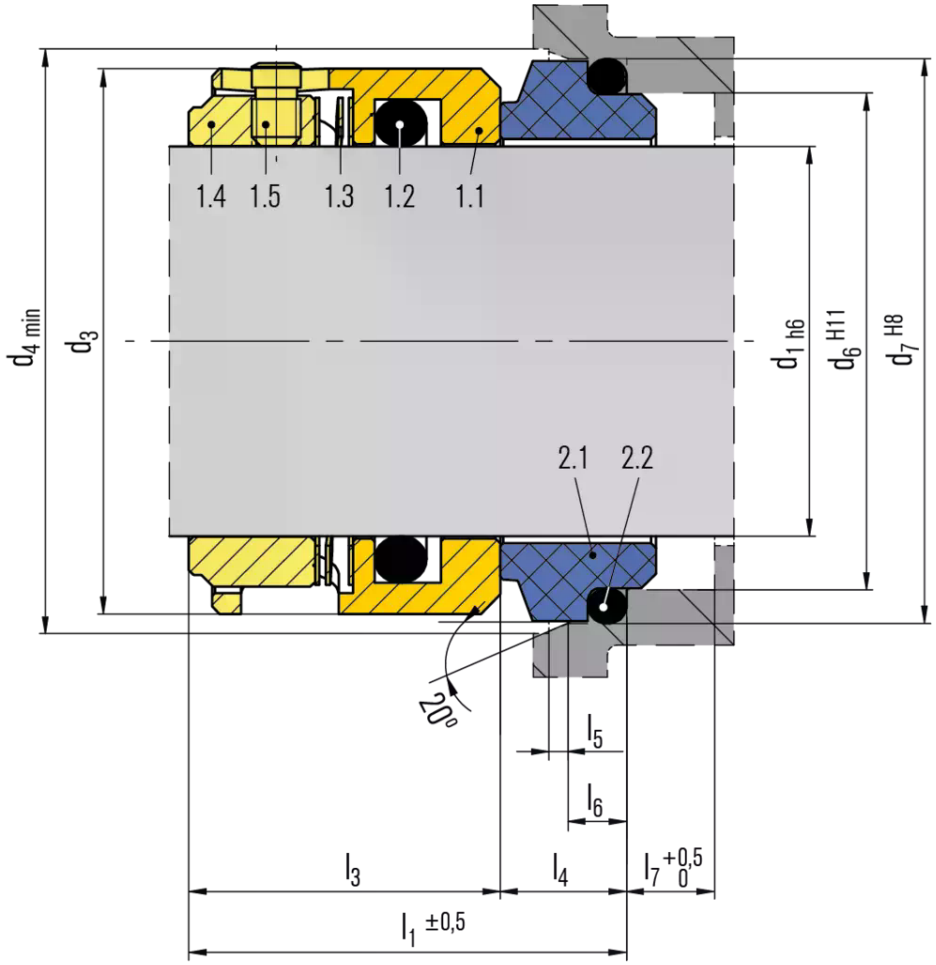
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.



BT-C7.KU © EagleBurgmann

Item	Description
1.1	Seal face
2.1	Stationary seat
1.2, 2.2	O-ring
1.3	Spring
1.4	Driver
1.5	Set screw

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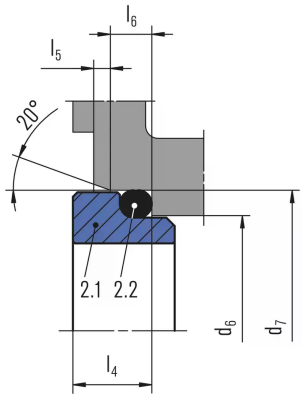
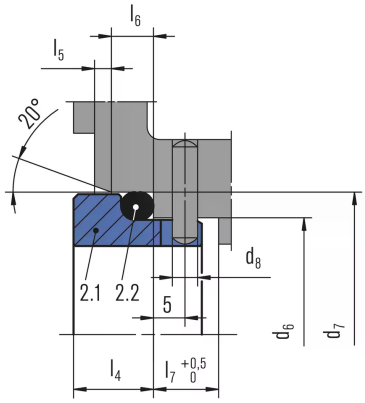
Seat alternatives



PF L

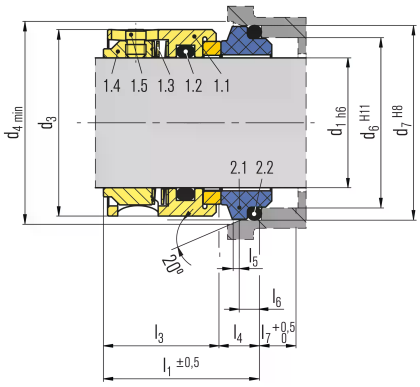
Item Description
2.1 Stationary seat
2.2 O-ring



PF L1

Item Description
2.1 Stationary seat
2.2 O-ring

Product variants



BT-C74

Items and designations are the same as for BT-C7, but with a shrink-fitted seal face into the seal face carrier.

Seal face: Tungsten carbide (U), Silicon carbide (Q1)

Item Description
1.1 Seal face housing
2.1 Stationary seat
1.2, 2.2 O-ring
1.3 Spring
1.4 Driver
1.5 Set screw

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Dimensions

d_1	d_3	d_4	d_6	d_7	d_8	l_{1KU}	l_3	l_4	l_5	l_6	l_7
12	22	26	19	23	3	32.5	25.5	7	1.5	4	8.5
14	24	28	21	25	3	35.0	28.0	7	1.5	4	8.5
16	26	32	23	27	3	35.0	28.0	7	1.5	4	8.5
18	32	36	27	33	3	37.5	27.5	10	2.0	5	9.0
20	34	37	29	35	3	37.5	27.5	10	2.0	5	9.0
22	36	41	31	37	3	37.5	27.5	10	2.0	5	9.0
24	38	41	33	39	3	40.0	30.0	10	2.0	5	9.0
25	39	43	34	40	3	40.0	30.0	10	2.0	5	9.0
28	42	50	37	43	3	42.5	32.5	10	2.0	5	9.0
30	44	50	39	45	3	42.5	32.5	10	2.0	5	9.0
32	46	50	42	48	3	42.5	32.5	10	2.0	5	9.0
33	47	57	42	48	3	42.5	32.5	10	2.0	5	9.0
35	49	57	44	50	4	42.5	32.5	10	2.0	5	9.0
38	54	64	49	56	4	45.0	32.0	13	2.0	6	9.0
40	56	64	51	58	4	45.0	32.0	13	2.0	6	9.0
43	59	64	54	61	4	45.0	32.0	13	2.0	6	9.0
45	62	69	56	63	4	45.0	32.0	13	2.0	6	9.0
48	64	69	59	66	4	45.0	32.0	13	2.0	6	9.0
50	66	76	62	70	4	47.5	33.5	14	2.5	6	9.0
53	69	78	65	73	4	47.5	33.5	14	2.5	6	9.0
55	71	80	67	75	4	47.5	33.5	14	2.5	6	9.0
58	78	83	70	78	4	52.5	38.5	14	2.5	6	9.0
60	80	85	72	80	4	52.5	38.5	14	2.5	6	9.0
63	83	88	75	83	4	52.5	38.5	14	2.5	6	9.0
65	85	90	77	85	4	52.5	38.5	14	2.5	6	9.0
68	88	93	81	90	4	52.5	36.5	16	2.5	7	9.0
70	90	97	83	92	4	60.0	44.0	16	2.5	7	9.0
75	99	103	88	97	4	60.0	44.0	16	2.5	7	9.0
80	104	110	95	105	4	60.0	42.0	18	3.0	7	9.0
85	109	116	100	110	4	60.0	42.0	18	3.0	7	9.0
90	114	121	105	115	4	65.0	47.0	18	3.0	7	9.0
95	119	126	110	120	4	65.0	47.0	18	3.0	7	9.0
100	124	131	115	125	4	65.0	47.0	18	3.0	7	9.0

l~1KU~ complies with EN 12756 (short length, unbalanced) **BT-C7** - Dimensions in millimeter

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