EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

BT-C8.KU

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

Advantages

- Universal application opportunities
- Reliable design
- Insensitive to low solid content
- Torque transmission by set screws

Operating range

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

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

Temperature:
t* = -35 °C ... +180 °C (-31 °F ... +356 °F)

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

* Dependent on medium, size and material

Materials

Seal face:
Silicon carbide (Q1),
Al-oxide (V)

Seat:
Carbon graphite antimony impregnated (A),
Carbon graphite resin impregnated (B),
Silicon carbide (Q1, Q6, Q7)

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

Metal parts:
CrNiMo steel 1.4401 (G)

Standards and approvals

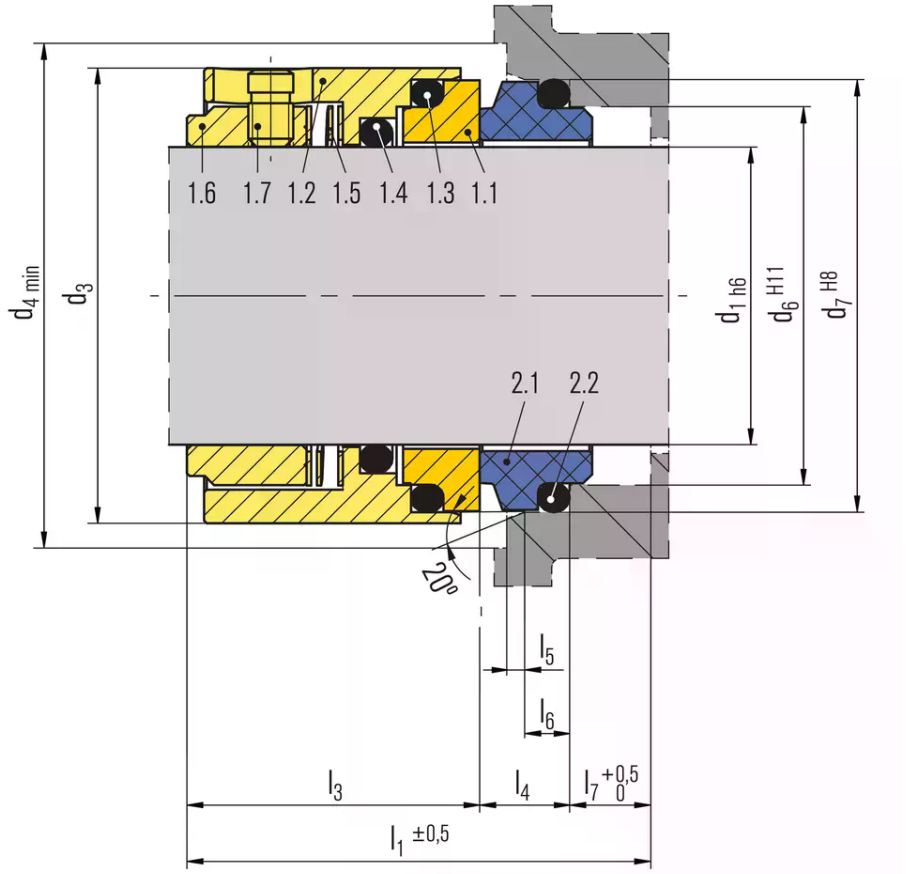
Various material approvals are available, depending on the type of material combinations, e.g. WRAS, UBA, ACS, NSF, FDA. Please inquire!

- EN 12756

Recommended applications

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

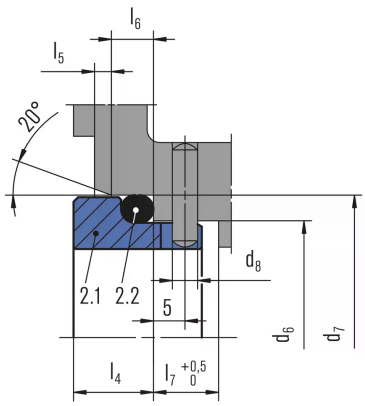
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Item	Description
1.1	Seal face
1.2	Collar
1.3	O-ring
1.4	O-ring
1.5	Spring
1.6	Driver
1.7	Set screw
2.1	Seat
2.2	O-ring

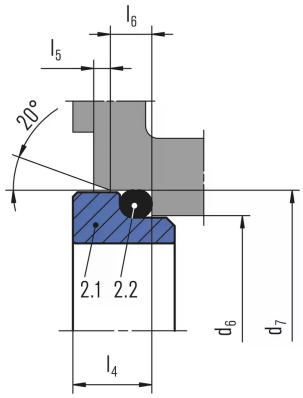
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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

Seat alternatives



PF L1

Item Description
2.1 Stationary seat
2.2 O-ring



PF L

Item Description
2.1 Stationary seat
2.2 O-ring

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.

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	23	26	19	23	3	32.5	25.5	7	1.5	4	8.5
14	26	28	21	25	3	35.0	28.0	7	1.5	4	8.5
16	30	32	23	27	3	35.0	28.0	7	1.5	4	8.5
18	33	36	27	33	3	37.5	27.5	10	2.0	5	9.0
20	33	37	29	35	3	37.5	27.5	10	2.0	5	9.0
22	38	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	40	43	34	40	3	40.0	30.0	10	2.0	5	9.0
28	46	50	37	43	3	42.5	32.5	10	2.0	5	9.0
30	46	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	52	57	42	48	3	42.5	32.5	10	2.0	5	9.0
35	56	62	44	50	3	42.5	32.5	10	2.0	5	9.0
38	63	67	49	56	4	45.0	32.0	13	2.0	6	9.0
40	63	67	51	58	4	45.0	32.0	13	2.0	6	9.0
43	63	67	54	61	4	45.0	32.0	13	2.0	6	9.0
45	69	73	56	63	4	45.0	32.0	13	2.0	6	9.0
48	69	73	59	66	4	45.0	32.0	13	2.0	6	9.0
50	76	80	62	70	4	47.5	33.5	14	2.5	6	9.0
53	76	80	65	73	4	47.5	33.5	14	2.5	6	9.0
55	76	80	67	75	4	47.5	33.5	14	2.5	6	9.0
58	82	87	70	78	4	52.5	38.5	14	2.5	6	9.0
60	84	90	72	80	4	52.5	38.5	14	2.5	6	9.0
63	86	93	75	83	4	52.5	38.5	14	2.5	6	9.0
65	89	96	77	85	4	52.5	38.5	14	2.5	6	9.0
68	92	99	81	90	4	52.5	36.5	16	2.5	7	9.0
70	95	101	83	92	4	60.0	44.0	16	2.5	7	9.0
75	100	106	88	97	4	60.0	44.0	16	2.5	7	9.0
80	105	111	95	105	4	60.0	42.0	18	3.0	7	9.0
85	115	125	100	110	4	60.0	42.0	18	3.0	7	9.0
90	120	130	105	115	4	65.0	47.0	18	3.0	7	9.0
95	126	137	110	120	4	65.0	47.0	18	3.0	7	9.0
100	130	143	115	125	4	65.0	47.0	18	3.0	7	9.0

d~3~, d~4~ dimensions not always in accordance with EN 12756 l1KU complies with EN 12756 (short length, unbalanced) **BT-C8.KU** - Dimensions in millimeter

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.