EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

BT-C5E

Mechanical Seals | Mechanical seals for pumps | Pusher seals

Features

- Single seal
- For plain shafts
- Unbalanced
- Multiple springs, rotating
- Independent of direction of rotation

Notes

Assembly aid (seat plate and fixing screws) not supplied with the mechanical seal, but available.

Advantages

- Designed for external mounting
- Positive torque transmission between seal face and drive collar
- For high viscosity media
- Insensitive to low solid content

Operating range

Shaft diameter:
d1 = 20 ... 80 mm (0.79" ... 3.15")

Pressure:
p1* = 12 bar (174 PSI)

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

Sliding velocity:
vg = 15 m/s (50 ft/s)

* Dependent on medium, size and material

Materials

Seal face:
Carbon graphite antimony impregnated (A),
Carbon graphite resin impregnated (B),
PTFE reinforced (Y1),
Tungsten Carbide (U),
Silicon Carbide (Q1)

Seat:
CrNiMo steel (G), Al-Oxide (V),
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!

Recommended applications

- Water and wastewater technology
- Chemical industry
- Process industry
- Food and beverage industry
- Low solid content media
- Gear pumps
- Lobe pumps
- Centrifugal pumps

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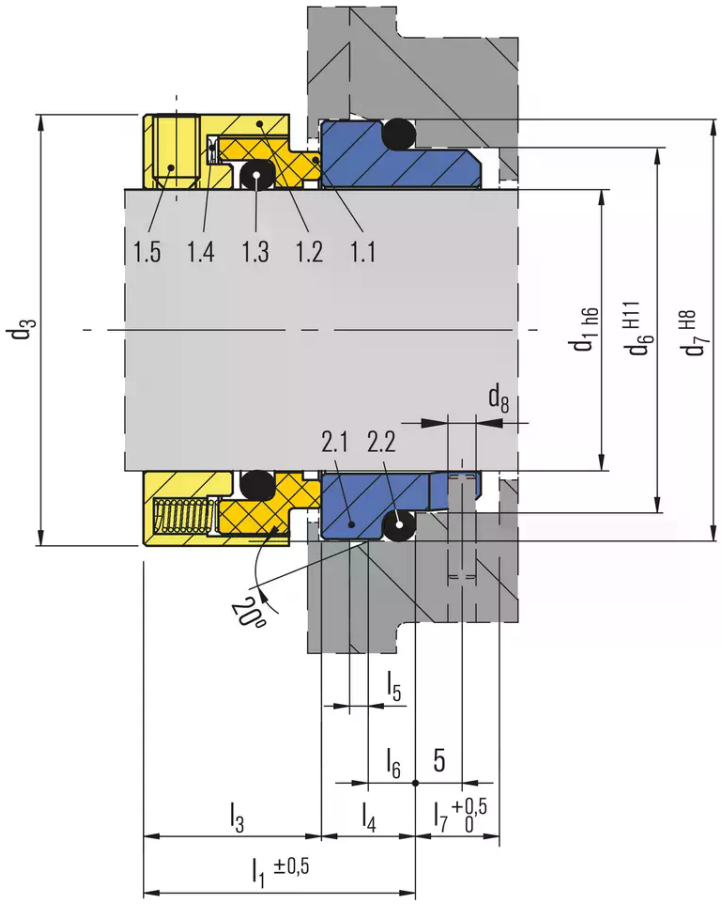
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



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

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Dimensions

d_1	d_3	d_6	d_7	d_8	l_1	l_3	l_4	l_5	l_6	l_7
20	36	29	35	3	29.0	19.0	10	2.0	5	9
25	41	34	40	3	29.0	19.0	10	2.0	5	9
30	46	39	45	3	29.0	19.0	10	2.0	5	9
35	51	44	50	3	29.0	19.0	10	2.0	5	9
40	59	51	58	4	34.0	23.0	11	2.0	6	9
45	63	56	63	4	34.0	23.0	11	2.0	6	9
50	66	62	70	4	35.0	22.0	13	2.5	6	9
55	72	67	75	4	36.0	22.0	13	2.5	6	9
60	80	72	80	4	39.5	26.5	13	2.5	6	9
65	86	77	85	4	39.5	26.5	13	2.5	6	9
70	92	83	92	4	41.5	26.5	15	2.5	7	9
75	98	88	97	4	41.5	26.5	15	2.5	7	9
80	105	95	105	4	42.5	26.5	16	3.0	7	9
85	111	100	110	4	46.0	30.0	16	3.0	7	9

BT-C5E - Dimensions in millimeter

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