

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)

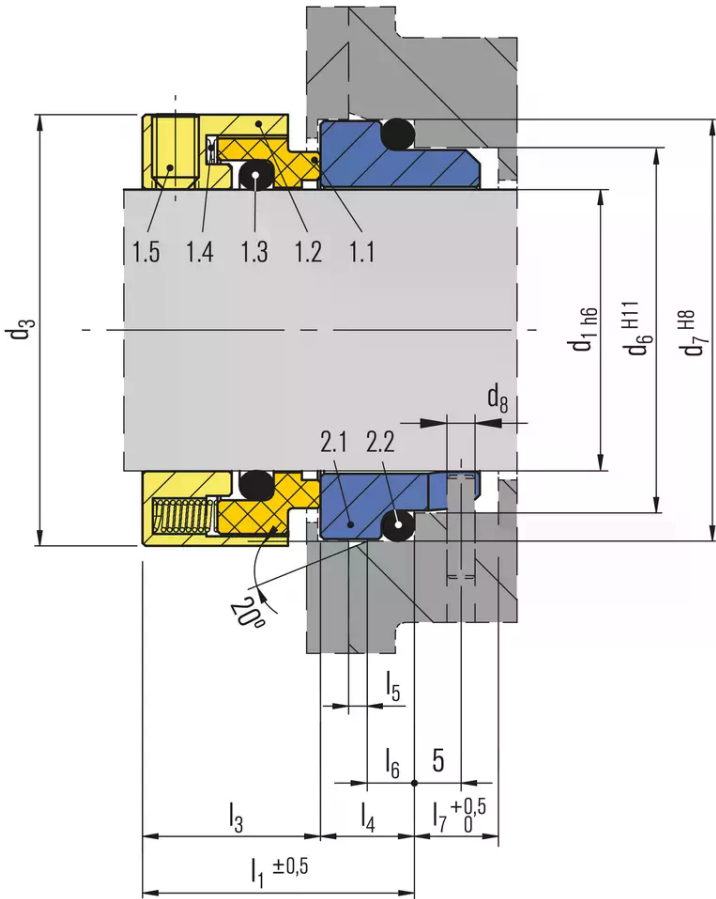
Standards and approvals

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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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