

RELY ON EXCELLENCE

BT-PNT

Mechanical Seals | Mechanical seals for pumps | Elastomer bellow seals



Features

- For plain shafts
- Single and dual seal
- Elastomer bellows rotating
- Unbalanced
- Independent of direction of rotation
- Inch sizes available

Advantages

- Shaft protection over entire seal length
- No torsion on bellow
- Universal application opportunities
- Suitable design for high volume seal
- Dimensions can be customized
- Additional seats available

Operating range

Shaft diameter: $d_1 = 1/2", 5/8", 3/4"$

Pressure: $p_1^* = 12 \text{ bar (174 PSI)}$

Temperature:

$t^* = -20 \text{ °C ... } +120 \text{ °C (-4 °F ... } +248 \text{ °F)}$

Sliding velocity: $v_g = 10 \text{ m/s (33 ft/s)}$

* Dependent on medium, size and material

Materials

Seal face:

Carbon graphite resin impregnated (B), Carbon graphite, full carbon (B3), Silicon carbide (Q1)

Seat:

Al-Oxide (V,V1), Silicon carbide (Q1)

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

Metal parts: CrNiMo steel 1.4401 (G)

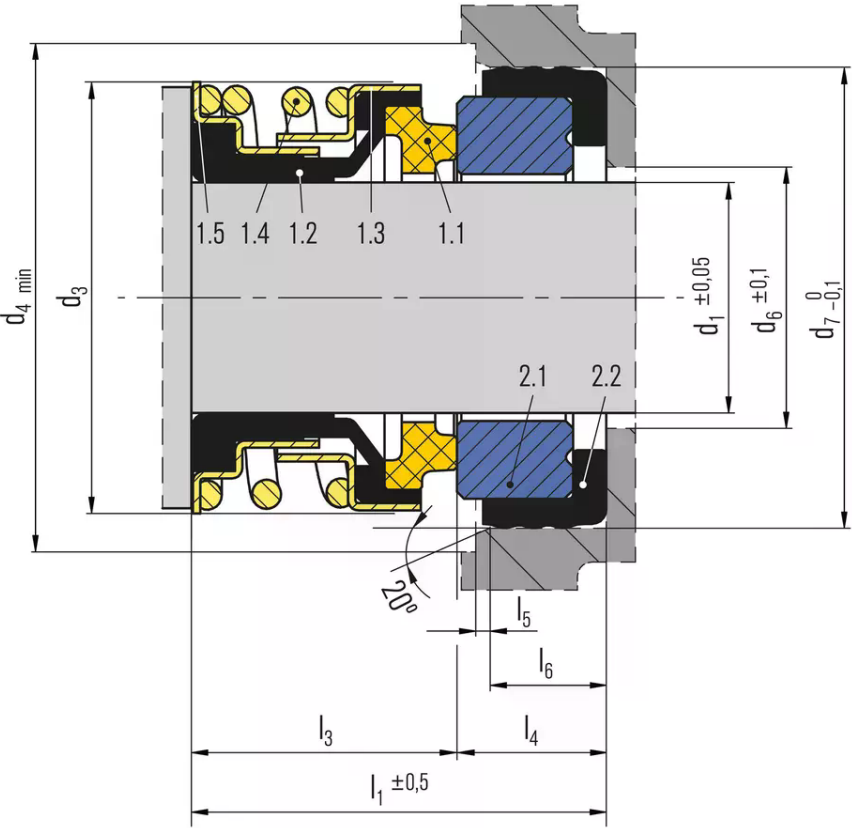
Standards and approvals

- 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
- Media with low solids content
- Domestic appliances
- Dishwasher pumps
- Whirlpool and swimming pool pumps
- Submersible pumps
- Circulating pumps

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Item	Description
1.1	Seal face
1.2	Bellows
1.3	Drive collar
1.4	Spring
1.5	Driver
2.1	Stationary seat
2.2	Gasket

Dimensions

d ₁	d ₁	d ₃	d ₆	d ₇	l ₁	l ₃	l ₄	l ₅	l ₆
0.500"	12.70	25	15	25.40	24.5	16.6	7.9	1	6
-	15.00	28	17	29.50	25.0	17.0	8.0	1	6
0.625"	15.88	30	18	30.95	28.6	18.3	10.3	1	8
0.625"	15.88	30	18	31.75	28.6	18.3	10.3	1	8
0.750"	19.05	32	21	35.00	29.3	19.0	10.3	1	8

BT-PNT - Dimensions in inch (d1) and millimeter