

BT-PNT

EagleBurgmann BT Mechanical seals



Features

- Rubber bellows mechanical seal
- Unbalanced
- Single spring
- Independent of direction of rotation

Advantages

The main design features of the BT-PNT are the metal joint torque transmission together with the rubber bellows. This prevents torsional effects on the bellows. The shaft is protected across the entire seal length. Easy to assemble, the BT-PNT guarantees a long service life due to good product turbulence.

Operating range

Shaft diameter: $d_1 = 15 \text{ mm}$, 5/8", 3/4", 1"

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

Temperature:

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

Aluminium oxide (V), Silicon carbide (Q1)

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

Metal parts: CrNi steel 1.4301 (F), CrNiMo steel 1.4401 (G)

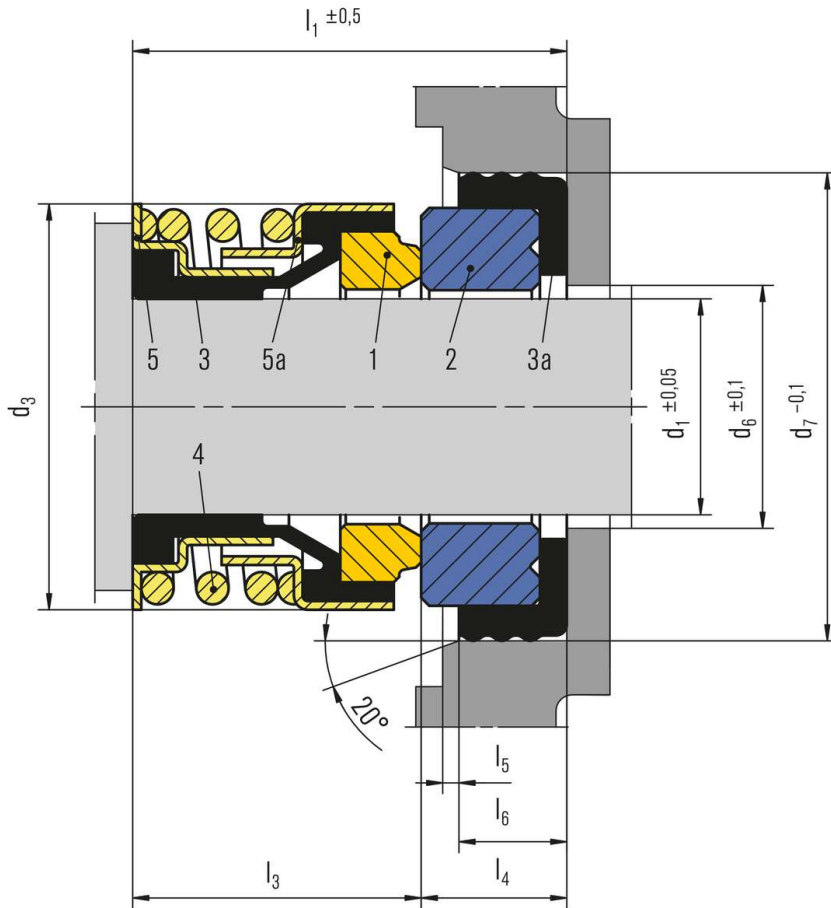
Standards and approvals

- KTW
- W270
- ACS
- WRAS
- NSF
- FDA
- DM 174/04

Recommended applications

- Water and waste water technology
- Pool and spa applications
- Household appliances
- Swimming pool pumps
- Cold water pumps
- Pumps for home and garden

RELY ON EXCELLENCE



Item Description

- 1 Seal face
- 2 Stationary seat
- 3 Bellows
- 3a Gasket
- 4 Spring
- 5 Driver
- 5a Drive collar

Dimensions

d_1	d_1	d_3	d_6	d_7	l_1	l_3	l_4	l_5	l_6
	15.00	27.0	17	29.50	25.0	17.0	8.0	1.0	6.0
0.625"	15.88	29.8	18	31.75	28.6	18.3	10.3	1.0	8.0
0.750"	19.05	32.0	21	35.00	29.3	19.0	10.3	1.0	8.0
1.000"	25.40	42.0	29	41.25	38.2	27.0	11.0	1.5	8.5

BT-PNT - Dimensions in millimeter