

## BT-C8

### EagleBurgmann BT Mechanical seals



#### Features

- Single pusher-type seal
- Unbalanced
- Independent of direction of rotation
- Super-sinus spring
- Short installation length, according to EN 12756 (L<sub>1KU</sub>)

#### Advantages

The BT-C8 mechanical seal range is designed for universal application and is ideally suited for standardization. The seal is bi-directional, unaffected by the direction of shaft rotation and is positively driven by set screws. With super-sinus spring. The advantages of this mechanical seal are the easily interchangeable seal faces which permit all material combinations.

#### Operating range

Shaft diameter:  
 $d_1 = 16 \dots 100 \text{ mm (0.79" ... 3.94")}$   
 Pressure:  $p_1^* = 12 \text{ bar (16 bar) (174 PSI)}$   
 Temperature:  
 $t^* = -35 \text{ °C ... +180 °C (-4 °F ... +356 °F)}$   
 Sliding velocity:  $v_g = 20 \text{ m/s (66 ft/s)}$

\* Dependent on medium, size and material

#### Materials

Seal face:  
 Silicon carbide (Q1), Aluminium oxide (V)  
 Seat:  
 Carbon graphite resin impregnated (B),  
 Carbon graphite antimony impregnated (A),  
 Silicon carbide (Q1)  
 Elastomers:  
 NBR (P), EPDM (E), FKM (V), FFKM (K)  
 Metal parts: CrNiMo steel 1.4401 (G)

#### Standards and approvals

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

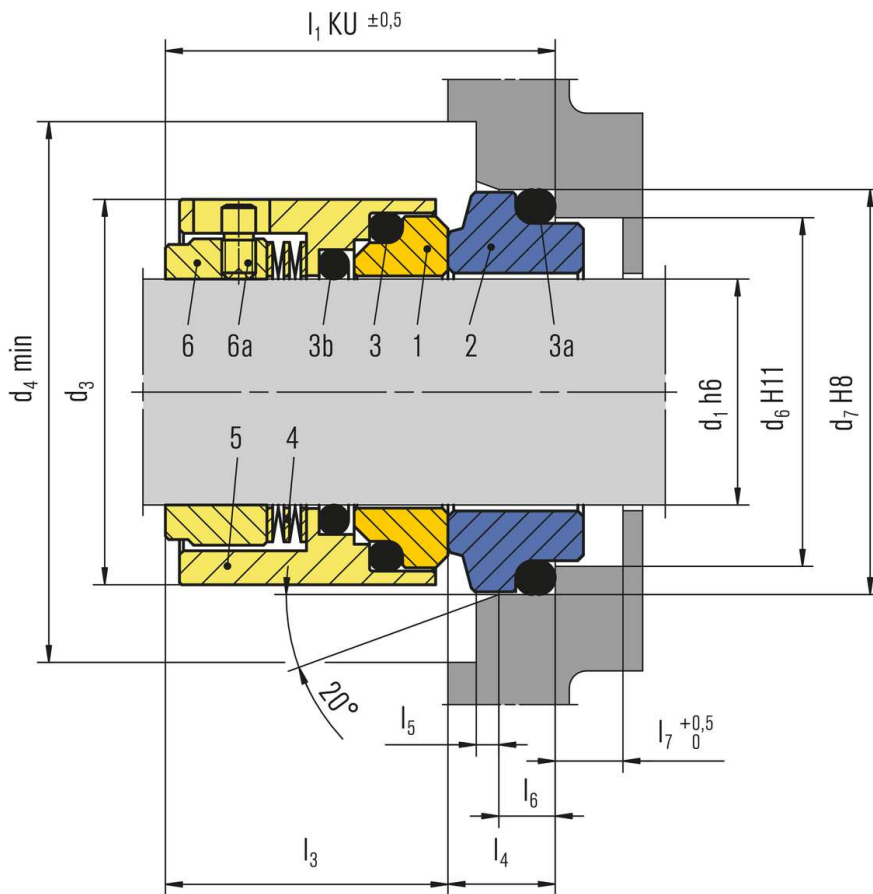
#### Notes

Seat ring of alternative seats can be supplied with short tail or with pin to block the seat and prevent seat rotation.

#### Recommended applications

- Chemical industry
- Pharmaceutical industry
- Building services industry
- Centrifugal pumps
- Clean water pumps

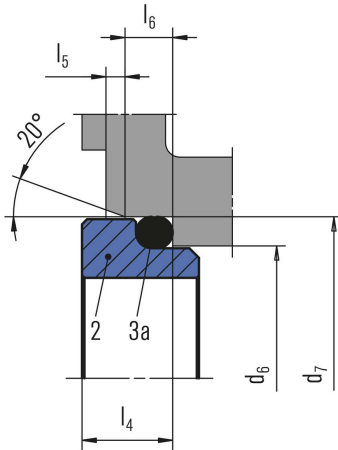
## RELY ON EXCELLENCE



Item	Description
1	Seal face
2	Stationary seat
3, 3a, 3b	O-Ring
4	Spring
5	Collar
6	Driver
6a	Set screw

RELY ON EXCELLENCE

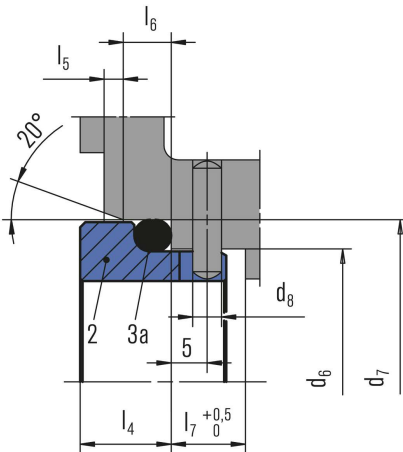
## Seat alternatives



PFL

**Item Description**

- 2 Stationary seat
- 3a O-Ring



PFL1

**Item Description**

- 2 Stationary seat
- 3a O-Ring

## RELY ON EXCELLENCE

### Dimensions

d <sub>1</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>6</sub>	d <sub>7</sub>	d <sub>8</sub>	l <sub>1KU</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>
16	29	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	36	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	45	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	56	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	70	49	56	4	45.0	32.0	13	2.0	6	9.0
40	63	70	51	58	4	45.0	32.0	13	2.0	6	9.0
43	63	70	54	61	4	45.0	32.0	13	2.0	6	9.0
45	69	75	56	63	4	45.0	32.0	13	2.0	6	9.0
48	69	75	59	66	4	45.0	32.0	13	2.0	6	9.0
50	76	83	62	70	4	47.5	33.5	14	2.5	6	9.0
53	76	83	65	73	4	47.5	33.5	14	2.5	6	9.0
55	76	83	67	75	4	47.5	33.5	14	2.5	6	9.0
58	82	88	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	94	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	132	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<sub>3</sub>, d<sub>4</sub> dimensions not always in accordance with EN 12756  
 l<sub>1KU</sub> complies with EN 12756 (short length, unbalanced)

**BT-C8** - Dimensions in millimeter