

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:  
 $d_1 = 20 \dots 80 \text{ mm (0.79" ... 3.15")}$   
 Pressure:  $p_1^* = 12 \text{ bar (174 PSI)}$   
 Temperature:  
 $t^* = -35 \text{ °C ... +180 °C (-31 °F ... +356 °F)}$   
 Sliding velocity:  $v_g = 15 \text{ m/s (50 ft/s)}$

\* 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



## RELY ON EXCELLENCE

### Dimensions

d <sub>1</sub>	d <sub>3</sub>	d <sub>6</sub>	d <sub>7</sub>	d <sub>8</sub>	l <sub>1</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>
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