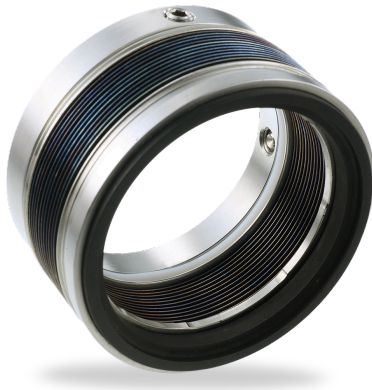


RELY ON EXCELLENCE

MBS100

Mechanical seals | Mechanical seals for pumps | Metal bellows seals



Features

- For unstepped shafts
- Rotating bellows
- Single Seal
- Balanced
- Independent of direction of rotation

Advantages

- For extreme temperature ranges
- No dynamically loaded O-Ring
- Self cleaning effect

Operating range

Shaft diameter: $d_1 = 20 \dots 100 \text{ mm}$ (0.75" ... 4")

Pressure: $p_1 = \dots 25$ (16*) bar 363 (232*) PSI

Temperature:

$t = -40 \text{ }^\circ\text{C} \dots +220$ (160*) $^\circ\text{C}$ (-40 $^\circ\text{F} \dots 428$ (320*)) $^\circ\text{F}$

Sliding velocity: $v_g = 20 \text{ m/s}$ (66 ft/s)

* Operating limits for material combination Q1/Q1

Materials

Seal face: Silicon carbide (Q12), Carbon graphite (A)

Seat: Silicon carbide (Q1)

Bellows: Inconel® 625 (T3)

Secondary seals: FKM (V)

Metal parts: Duplex (G1)

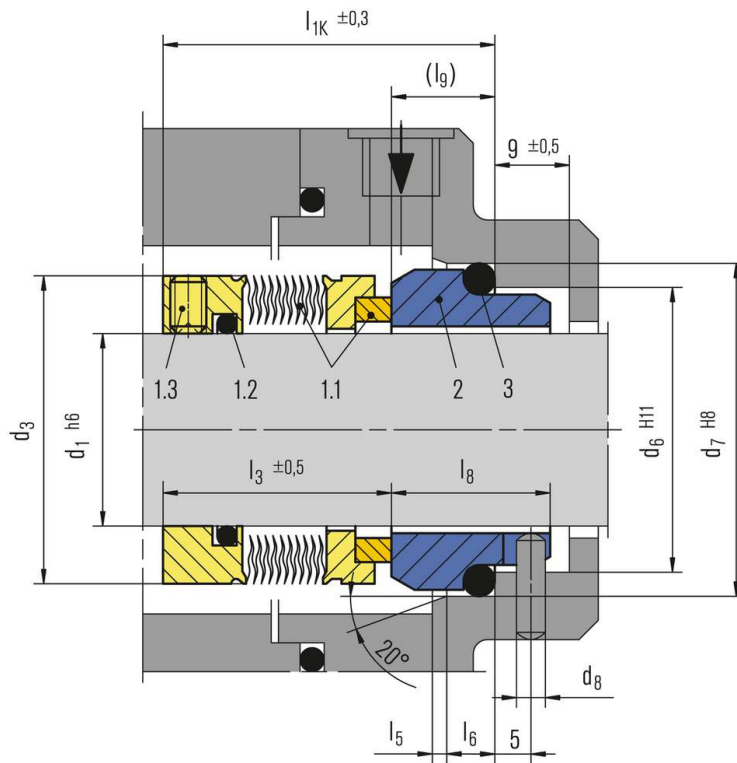
Standards and approvals

- EN 12756

Recommended applications

- Process industry
- Refining technology
- Power plant technology
- Chemical industry
- Hot media
- Cold media
- Highly viscous media
- Pumps
- Special rotating equipment

RELY ON EXCELLENCE



Item Description

- 1.1 Seal face with bellows unit
- 1.2 O-Ring
- 1.3 Set screw
- 2 Seat (G9)
- 3 O-Ring

RELY ON EXCELLENCE

Dimensions

d ₁	d ₃	d ₆	d ₇	d ₈	l _{1K}	l ₃	l ₅	l ₆	l ₈	l ₉
20	33.3	29	35	3	37.5	30.5	2.0	5	15.0	7.0
22	36.5	31	37	3	37.5	30.5	2.0	5	15.0	7.0
24	39.0	33	39	3	40.0	28.5	2.0	5	19.5	11.5
25	39.0	34	40	3	40.0	28.5	2.0	5	19.5	11.5
28	42.0	37	43	3	42.5	31.0	2.0	5	19.5	11.5
30	44.0	39	45	3	42.5	31.0	2.0	5	19.5	11.5
32	46.0	42	48	3	42.5	31.0	2.0	5	19.5	11.5
33	47.0	42	48	3	42.5	31.0	2.0	5	19.5	11.5
35	49.2	44	50	3	42.5	31.0	2.0	5	19.5	11.5
38	52.4	49	56	4	45.0	31.0	2.0	6	22.0	14.0
40	55.6	51	58	4	45.0	31.0	2.0	6	22.0	14.0
43	58.7	54	61	4	45.0	31.0	2.0	6	22.0	14.0
45	58.7	56	63	4	45.0	31.0	2.0	6	22.0	14.0
48	61.9	59	66	4	45.0	31.0	2.0	6	22.0	14.0
50	65.1	62	70	4	47.5	32.5	2.5	6	23.0	15.0
53	68.3	65	73	4	47.5	32.5	2.5	6	23.0	15.0
55	69.7	67	75	4	47.5	32.5	2.5	6	23.0	15.0
58	74.6	70	78	4	52.5	37.5	2.5	6	23.0	15.0
60	74.6	72	80	4	52.5	37.5	2.5	6	23.0	15.0
65	84.1	77	85	4	52.5	37.5	2.5	6	23.0	15.0
70	87.3	83	92	4	60.0	42.0	2.5	7	26.0	18.0
75	95.3	88	97	4	60.0	42.0	2.5	7	26.0	18.0
80	98.4	95	105	4	60.0	41.8	3.0	7	26.2	18.2
85	104.8	100	110	4	60.0	41.8	3.0	7	26.2	18.2
90	108.0	105	115	4	65.0	46.8	3.0	7	26.2	18.2
95	114.3	110	120	4	65.0	47.8	3.0	7	25.2	17.2
100	120.7	115	125	4	65.0	47.8	3.0	7	25.2	17.2

Dimensions in millimeter