

RELY ON EXCELLENCE

LB500

Mechanical seals | Mechanical seals for pumps | Pusher seals

**Features**

- Single seal
- Balanced
- Independent of direction of rotation
- Rotating multiple springs

Advantages

- API 682 (Type A) compliant
- Fits to EN and ANSI seal chambers
- Optimized, narrow width seal face design

Operating rangePressure: $p =$ vacuum ... 35 bar (508 PSI)

Temperature:

 $t = -20\text{ °C} \dots +200\text{ °C} (-4\text{ °F} \dots +392\text{ °F})$ Sliding velocity: $v_g =$... 20 m/s (66 ft/s)

Viscosity: ... 500 mPa·s

Solids content: ... 0.5 %

Materials

Seal face: Carbon graphite resin impregnated (B), High density carbon graphite

Seat: Silicon carbide (Q1)

Secondary seals: FKM (V)

Metal parts: CrNiMo steel (G)

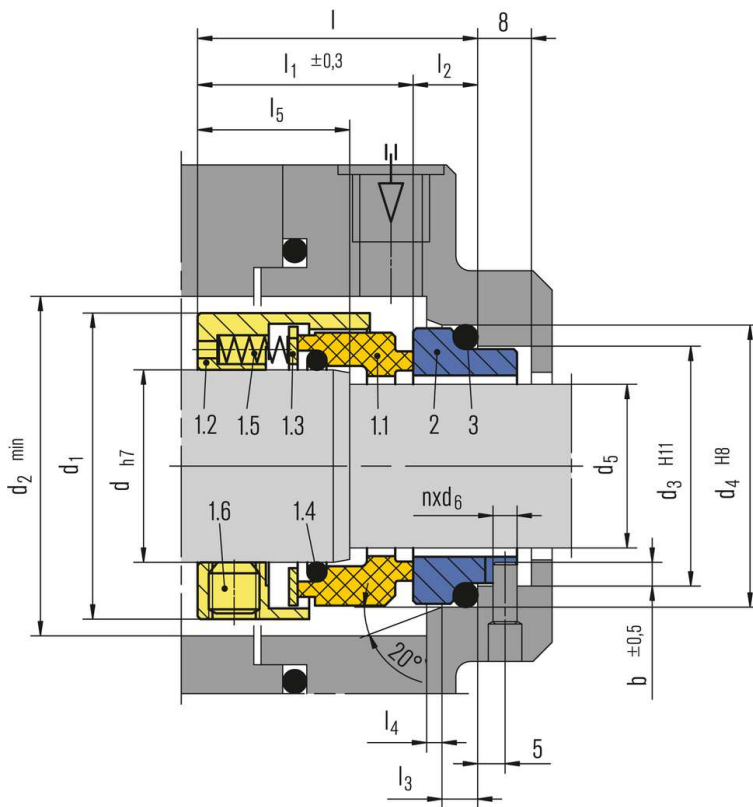
Standards and approvals

- API 682 / ISO 21049
- ANSI

Recommended applications

- Chemical industry
- Process industry
- Acids
- Alkaline solutions
- Salt solutions
- Low viscosity oils
- Monomers
- Hydrocarbons
- Water
- Seawater
- Process pumps

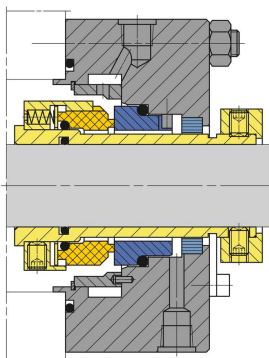
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Item Description

- 1.1 Seal face
- 1.2 Drive collar
- 1.3 Thrust ring
- 1.4 O-Ring
- 1.5 Spring
- 1.6 Set screw
- 2 Seat
- 3 O-Ring

Product variants



Configuration example

Configuration example acc. to API 682 (1CW-FX)

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Dimensions

d	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	l	l ₁	l ₂	l ₃	l ₄	l ₅	b
25	39	41	29	35	20	3	44	34	10	5.5	2.0	24	3.5
28	42	44	33	39	24	3	44	34	10	5.5	2.0	24	3.5
30	44	46	34	40	25	3	44	34	10	5.5	2.0	24	3.5
32	46	48	37	43	27	3	44	34	10	5.5	2.0	24	3.5
33	47	49	37	43	28	3	44	34	10	5.5	2.0	24	3.5
35	49	51	39	45	30	3	44	34	10	5.5	2.0	24	3.5
38	55	58	42	48	33	3	45	35	10	5	2.0	25	3.5
40	57	60	44	50	35	3	45	35	10	5	2.0	25	3.5
42	59	62	49	56	37	4	48	37	11	5	2.0	25	4.0
43	60	63	49	56	38	4	48	37	11	5	2.0	25	4.0
45	62	65	51	58	40	4	48	37	11	5	2.0	25	4.5
48	65	68	54	61	43	4	48	37	11	5	2.0	25	4.5
50	67	70	56	63	45	4	48	37	11	6	2.0	25	4.5
53	70	73	59	66	48	4	48	37	11	6	2.0	25	4.5
55	72	75	62	70	50	4	50	37	13	6	2.5	25	4.5
60	77	85	67	75	55	4	50	37	13	6	2.5	25	5.0
63	80	88	70	78	58	4	50	37	13	6	2.5	25	5.0
65	82	90	72	80	60	4	50	37	13	6	2.5	25	5.0
70	87	95	77	85	65	4	50	37	13	6	2.5	25	5.0
75	92	104	83	92	70	4	53	38	15	7	2.5	25	5.0
80	97	109	88	97	75	4	53	38	15	7	2.5	25	5.0
85	102	114	95	105	80	4	53	37.5	15.5	7	3.0	25	6.0
90	107	119	100	110	85	4	53	37.5	15.5	7	3.0	25	6.0
95	112	124	105	115	90	4	53	37.5	15.5	7	3.0	25	6.0
100	117	129	110	120	95	4	53	37.5	15.5	7	3.0	25	6.0
105	122	134	115	125	100	4	53	37.5	15.5	7	3.0	25	6.0
110	127	139	120	130	105	4	53	37.5	15.5	7	3.0	25	6.0