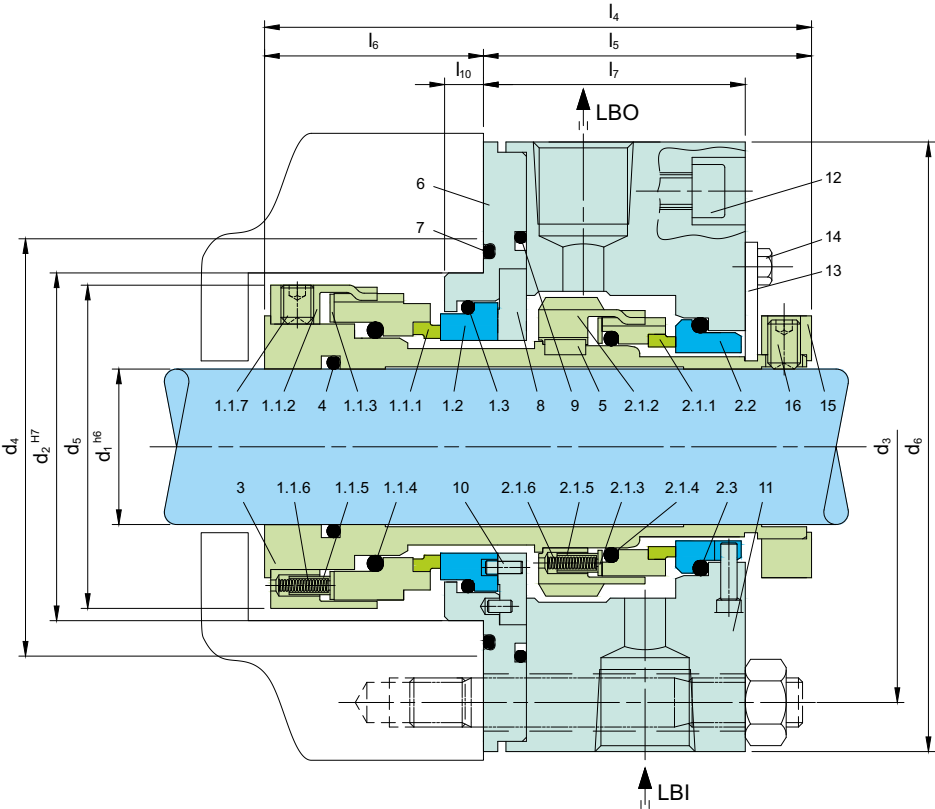


Product Description

- 1. Dual seal configuration
- 2. Balanced design
- 3. Independent of direction of rotation
- 4. Cartridge construction
- 5. Bi-directional design available
- 6. Category 2 and 3, Type A, Arrangement 2 or 3
- 7. Design in accordance to API 682 / ISO 21049
- 8. Pumping device available for increased efficiency in circulation
- 9. Rotary unit with multiple springs
- 10. Can accommodate reverse pressure

Technical Features

- 1. Can handle extensive applications in various temperatures and pressures
- 2. Versatile in design to fit various seal chambers
- 3. Material of construction available in special metallurgy
- 4. Special torque transmission design for high performance
- 5. Operation reliability due to rugged metal torque transmission at the rotating seal face



Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Description
1.1.1, 2.1.1	Seal face
1.1.2, 2.1.2	Driver
1.1.3, 2.1.3	Thrust ring
1.1.4, 2.1.4, 1.3, 2.3	O-ring
1.1.5, 2.1.5	Spring Sleeve
1.1.6, 2.1.6	Spring
1.1.7	Set screw
1.2, 2.2	Seat
3	Shaft sleeve
4	O-ring
5	Key

Item	Description
6	Adapter
7	O-ring
8	Washer
9	O-ring
10	Pin
11	Housing
12	HSH cap screw
13	Assembly fixture
14	Hexagon bolt
15	Set ring
16	Set screw

Typical Industrial Applications

API & ISO Pumps	Low solids content media
Acids (some)	Media with poor lubrication properties
Aqueous solutions	Oil & gas
Chemical	Petrochemical
Fertiliser	Refining technology
Highly viscous hydrocarbons	Toxic & hazardous media
Light volatile hydrocarbons	
Low abrasive media	

Materials

Seal face	Carbon graphite resin antimony impregnated (A), Silicon carbide (Q1, Q2)
Seat	Silicon carbide (Q1, Q2)
Secondary seals	EPDM (E), NBR (P), FKM (V), FFKM (K)
Springs	Hastelloy® C-4 (M)
Metal parts	CrNiMo steel (G), Duplex (G1), Hastelloy® C-4 (M)

Performance Capabilities

Sizes	d ₁ = Upto 110 mm (Upto 4.250")*
Pressure	p ₁ = 40 bar (580 PSI)
Temperature	t = -40 °C...+220 °C (-40 °F...+428 °F)
Speed	23 m/s (75 ft/s)
* Other sizes on request	

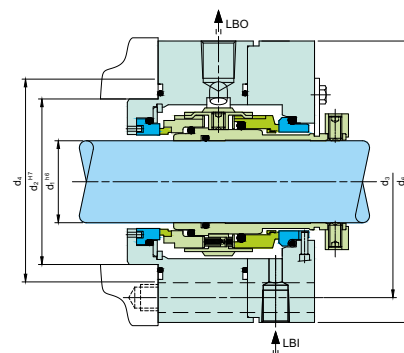
Permissible Axial Movement

± 2.0 ... 4.0 mm depending on the diameter and installation situation

Standards

API 682/ ISO 21049

Design Variations



B750VK-D

Dual seal in back-to-back arrangement.
Suitable for API 610 table 6 seal chambers.

Dimensional Data

Dimensions in inch

API/d ₁	API/d ₂	API/d ₃	API/d ₄	d ₅	d ₆	l ₄	l ₅	l ₆	l ₇	l ₁₀	Axial movement
0.750	2.756	4.134	3.346	2.362	5.079	5.669	3.819	1.850	3.189	0.236	±0.079
1.125	3.150	4.528	3.740	2.756	5.472	5.728	3.780	1.949	3.051	0.315	±0.079
1.500	3.543	4.921	4.134	3.228	5.866	5.768	3.799	1.969	3.071	0.315	±0.079
2.000	3.937	5.512	4.528	3.701	6.614	6.220	4.193	2.028	3.465	0.413	±0.079
2.250	4.724	6.299	5.315	4.488	7.402	6.496	4.232	2.264	3.551	0.177	±0.079
2.750	5.118	6.693	5.709	4.882	7.795	6.693	4.232	2.461	3.346	0.394	±0.079
3.125	5.512	7.087	6.102	5.276	8.189	6.890	4.232	2.657	3.346	0.492	±0.079
3.500	6.299	8.071	6.890	5.748	9.370	7.039	4.602	2.437	3.717	0.272	±0.118
3.750	6.693	8.465	7.283	6.417	9.764	7.283	4.626	2.657	3.622	0.453	±0.079
4.250	7.087	8.858	7.677	6.811	10.157	7.402	4.587	2.815	3.583	0.610	±0.118

Dimensions in millimeter

API/d ₁	API/d ₂	API/d ₃	API/d ₄	d ₅	d ₆	l ₄	l ₅	l ₆	l ₇	l ₁₀	Axial movement
20	70	105	85	60	129	144.0	97.0	47.0	81.0	6.0	±2.0
30	80	115	95	70	139	145.5	96.0	49.5	77.5	8.0	±2.0
40	90	125	105	82	149	146.5	96.5	50.0	78.0	8.0	±2.0
50	100	140	115	94	168	158.0	106.5	51.5	88.0	10.5	±2.0
60	120	160	135	114	188	165.0	107.5	57.5	90.2	4.5	±2.0
70	130	170	145	124	198	170.0	107.5	62.5	85.0	10.0	±2.0
80	140	180	155	134	208	175.0	107.5	67.5	85.0	12.5	±2.0
90	160	205	175	146	238	178.8	116.9	61.9	94.4	6.9	±3.0
100	170	215	185	163	248	185.0	117.5	67.5	92.0	11.5	±2.0
110	180	225	195	173	258	188.0	116.5	71.5	91.0	15.5	±3.0

Note: Additional technical & dimensional information will be provided on request.

The specifications, drawings, images etc included in this catalogue are intended to be generic and must be interpreted as equivalent or functionally equivalent, more specifically the performance capabilities mentioned in this catalogue is based on optimum values, however the performance of the product is dependent on size, material of construction, media, pressure, temperature, sliding velocity etc and it shall vary from size to size or application to application. Customers are requested to consult with Sealmatic before employing the product from this catalogue for any application.