

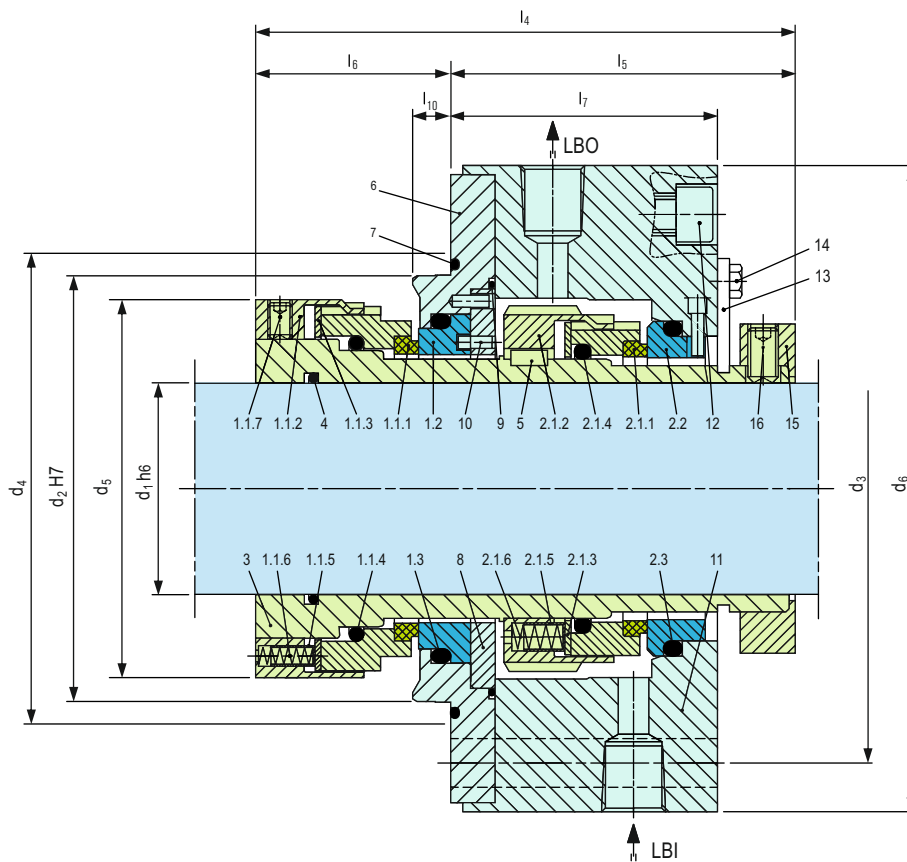


### Product Description

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



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

Light volatile and highly viscous hydrocarbons  
Oil and gas industry  
Petrochemical industry  
Refining technology  
API 610 / ISO 13709 pumps  
Process pumps

### 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)  
Permissible axial movement: ± 2.0 ... 4.0 mm  
depending on diameter and installation  
situation  
\* Other sizes on request

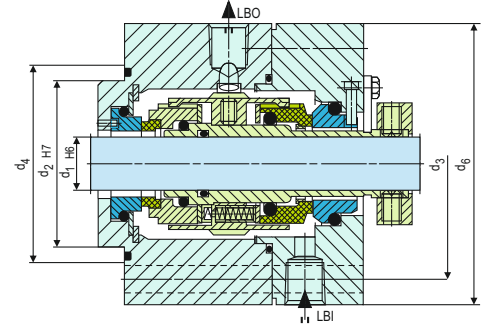
### Standards

API 682 / ISO 21049

### Materials

Seal face: Carbon graphite 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)

### 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 <sub>1</sub>	API/d <sub>2</sub>	API/d <sub>3</sub>	API/d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	l <sub>10</sub>	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 <sub>1</sub>	API/d <sub>2</sub>	API/d <sub>3</sub>	API/d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	l <sub>10</sub>	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.