

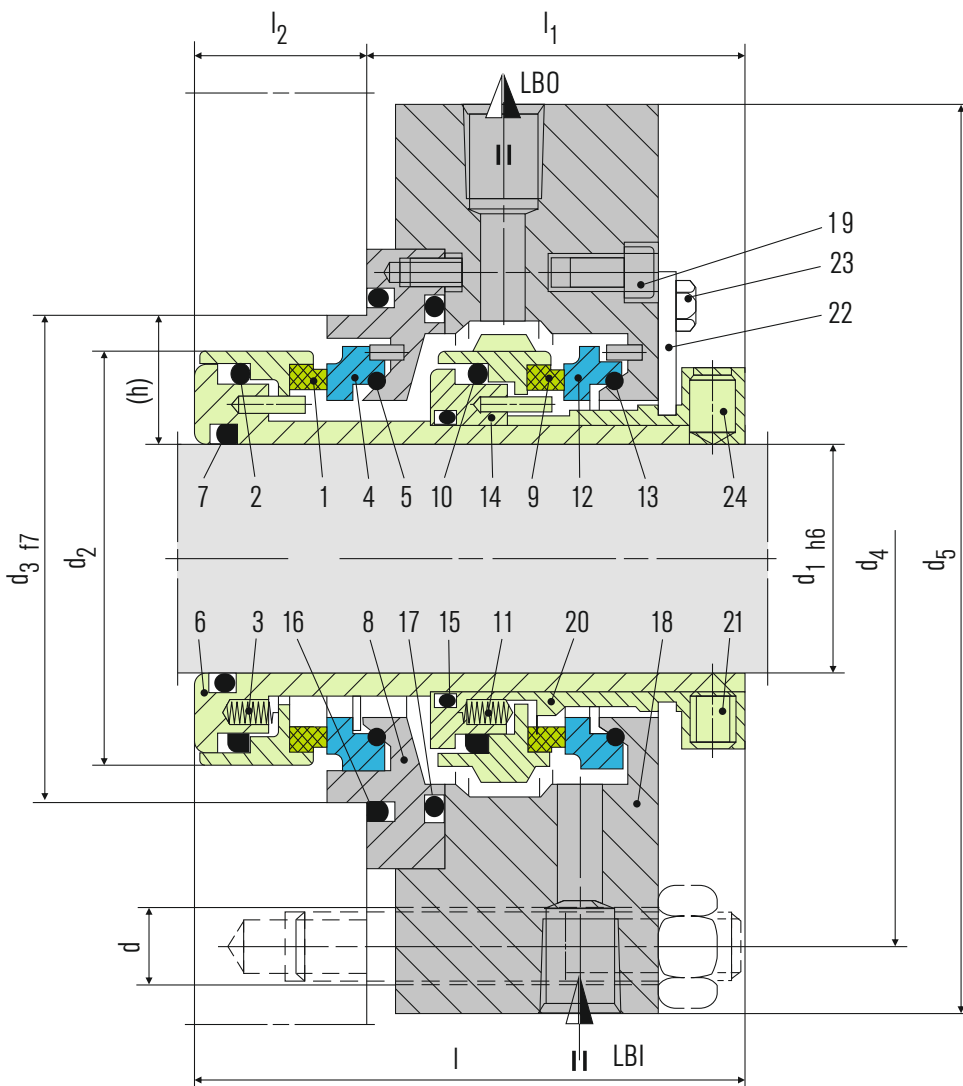


Product Description

1. Balanced
2. Cartridge construction
3. Category 1, Type A, Arrangement 1, 2 or 3
4. Dual seals with API Plan 52 / 53 (CTXAPI-DAP)
5. Other flush plans available
6. Seal design according API 682 / ISO 21 049
7. Shrink-fitted seal faces
8. Single and dual seals
9. Single seal with API Plan 11 and 61 (CTXAPI-SA)
10. Solid seats
11. Version with independent direction of rotation available

Technical Features

1. Accommodates shaft deflections and process fluctuations
2. Good heat dissipation
3. Low space requirements
4. Pre-assembled unit, ready to install
5. Springs protected from the product
6. Suitable for pressure reversal



Typical Industrial Applications

Chemical industry
 Light volatile and highly viscous hydrocarbons
 Low solids content and low abrasive media
 Media with poor lubrication properties
 Oil and gas industry
 Petrochemical industry
 Toxic and hazardous media
 Standard pumps
 Vertical and horizontal ANSI chemical pumps

Standards

API 682 / ISO 21049

Materials

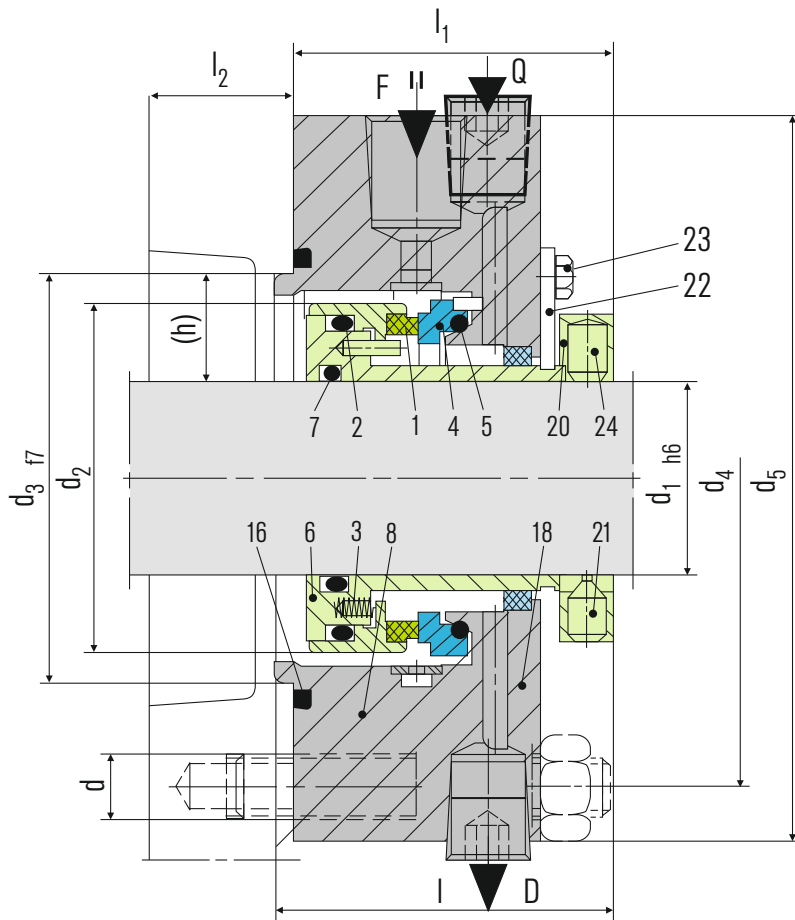
Seal face: Carbon graphite antimony impregnated (A), Silicon carbide sintered pressureless (Q12)
 Seat: Silicon carbide sintered pressureless (Q1)
 Secondary seals: FKM (V), FFKM (K), NBR (P), EPDM (E)
 Springs: Hastelloy® C-4 (M)* and C-276 (M5)
 Metal parts: CrNiMo steel (G)

Performance Capabilities

Sizes: d1 = Upto 110 mm (Upto 4.250")
 other sizes on request
 Pressure: p1 = 22 bar (319 PSI)
 Temperature: t = -40 °C ... 260 °C (-40 °F ... 500 °F)
 (>220 °C (428 °F) please enquire)
 Speed = 23 m/s (75 ft/s)

Item	Description
1, 9	Seal face
2, 5, 7, 10, 13, 15, 16, 17	O-Ring
3, 11	Spring
4, 12	Seat
6	Shaft sleeve
8	Adapter
14	Driver
18	Housing
19	HSH Cap screw
20	Set ring
21	Set screw
22	Assembly fixture
23	Hexagon bolt
24	Set screw

Design Variations



CTXAPI-SA
Single Seal

Dimensional Data

Dimensions in millimeter

d ₁	d ₂	d ₃	d ₄	d ₅	l	l ₁	l ₂	d	anz	acc to ASME B73.1 (h min)
20	50.4	58	105	127	96.5	68.5	28	13.5	4	19.05
25	55.4	63	110	132	96.5	68.5	28	13.5	4	19.05
30	60.4	68	115	137	96.5	68.5	28	13.5	4	19.05
35	65.4	73	120	142	96.5	68.5	28	13.5	4	19.05
40	70.4	78	125	147	96.5	68.5	28	13.5	4	19.05
45	75.4	83	135	162	96.5	68.5	28	17.5	4	19.05
50	80.4	88	140	167	100	72	28	17.5	4	19.05
55	85.4	93	145	172	100	72	28	17.5	4	19.05
60	96	105	160	187	127.5	88	39.5	17.5	4	22.22
65	101	110	165	192	127.5	88	39.5	17.5	4	22.22
70	106	115	170	197	127.5	88	39.5	17.5	4	22.22
75	111	120	175	202	127.5	88	39.5	17.5	4	22.22
80	116	125	185	213	127.5	88	39.5	22	4	22.22
85	123.5	136	190	223	131.5	92	39.5	22	4	25.4
90	128.5	141	195	228	131.5	92	39.5	22	4	25.4
95	133.5	146	200	233	131.5	92	39.5	22	4	25.4
100	138.5	151	205	238	131.5	92	39.5	22	4	25.4
105	143.5	156	210	243	131.5	92	39.5	22	4	25.4
110	152.5	161	215	248	131.5	92	39.5	22	4	25.4

inch size available from size 0.750 to 4.250

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