EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

APItex-S

API 682 4th edition product range | Mechanical seals | Balanced pusher seals

Features

- API 682 Category 1, Type A, Arrangement 1 seal
- Single seal
- Balanced
- Cartridge unit
- Independent of direction of rotation
- Solid seal face
- Solid seat

Advantages

- 100 % API compliant
- Security due to proofed design (API Seal qualification test)
- Insensitive to shaft deflections and process fluctuations
- Pre-assembled, ready to install unit
- Low space requirements
- Springs protected from the product
- Multipoint Ring Injection for optimized cooling distribution
- Quench connections as standard

Operating range

Shaft diameter:

d1 = 20 ... 110 mm (0.79" ... 4.33")

Pressure: p1 = 22 bar (319 PSI)

Temperature: t = -40 °C ... +176 °C *

(-40 °F ... +349 °F)
Sliding velocity: vg = 23 m/s (75 ft/s)

* API standard, other on request

Materials

Seal ring: Silicon carbide SSiC (Q1)
Mating ring: Silicon carbide SSiC (Q1), antimony impregnated carbon graphite (B)
Secondary seals:
EPDM (E), FKM (V), FFKM (K)
Springs: Hastelloy C-4 (M)
Metal parts: CrNiMo steel 316 (G) or equivalent, optional materials on request.

Standards and approvals

- API 682 3rd ed. Cat. 1 / ISO 21049
- API 682 4th ed. Cat. 1

Recommended applications

- Highly volatile hydrocarbons
- Toxic and hazardous media
- Media with poor lubrication properties
- Low solids content and low abrasive media
- CCUS
- Lithium
- Hydrogen
- Sustainable plastics production
- Alternative fuels production
- Power generation
- Process industry
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Vertical and horizontal ANSI chemical standard pumps

Recommended piping plans

Process side:
API Plan 01
API Plan 02
API Plan 03
API Plan 11
API Plan 12
API Plan 13
API Plan 14*

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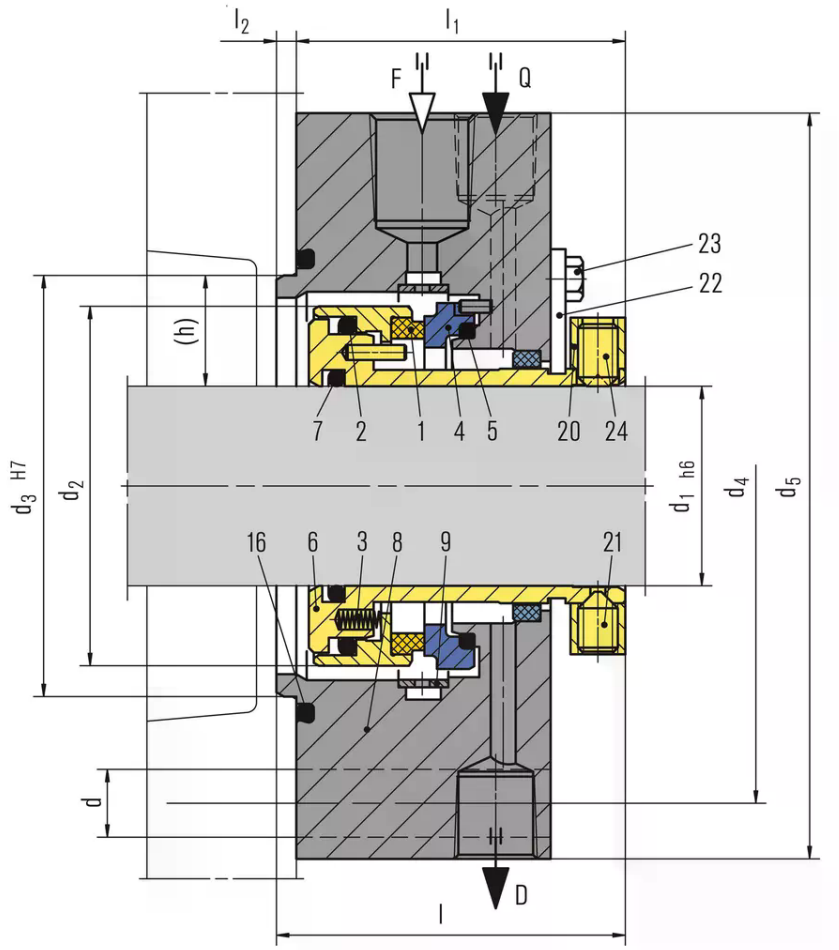
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.

API Plan 21
API Plan 22
API Plan 23*
API Plan 31
API Plan 32
API Plan 41

Atmospheric side:
API Plan 51
API Plan 61
API Plan 62
API Plan 65A
API Plan 65B
API Plan 66A*
API Plan 66B*

* Non standard



Item	Description
1	Seal face
2, 5, 7, 10	O-Ring
3	Spring
4	Seat
6	Shaft sleeve
8	Cover
9	Inset
11	Set ring
12, 15	Set screw
13	Assembly fixture
14	Socket head screw
16	Screw plug

F Flush
Q Quench
D Drain

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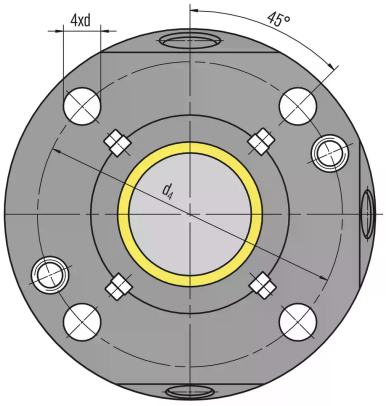
Installation, details, options



APItex-S Seal Cover

Dimensions

d_1	d~2 ~	d~3 ~	d_4	d_5	l	l_1	l_2	d	Qty.	Acc. ASME B73,1 (h min.)
20	50.4	58	105	127	70.5	66.5	4	13.5	4	19.05
25	55.4	63	110	132	70.5	66.5	4	13.5	4	19.05
30	60.4	68	115	137	70.5	66.5	4	13.5	4	19.05
35	65.4	73	120	142	70.5	66.5	4	13.5	4	19.05
40	70.4	78	125	147	70.5	66.5	4	13.5	4	19.05
45	75.4	83	135	162	70.5	66.5	4	17.5	4	19.05
50	80.4	88	140	167	72.5	68.5	4	17.5	4	19.05
55	85.4	93	145	172	72.5	68.5	4	17.5	4	19.05
60	96	105	160	187	87	83	4	17.5	4	22.22
65	101	110	165	192	87	83	4	17.5	4	22.22
70	106	115	170	197	87	83	4	17.5	4	22.22
75	111	120	175	202	87	83	4	17.5	4	22.22
80	116	125	185	218	87	83	4	22	4	22.22
85	123.5	136	190	223	86	71.5	14.5*	22	4	25.4
90	128.5	141	195	228	86	71.5	14.5*	22	4	25.4
95	133.5	146	200	233	86	71.5	14.5*	22	4	25.4
100	138.5	151	205	238	86	71.5	14.5*	22	4	25.4
105	143.5	156	210	243	86	71.5	14.5*	22	4	25.4
110	152.5	161	215	248	86	71.5	14.5*	22	4	25.4

Dimensions in mm

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