EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

H75VA4-S

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

Features

- API 682 Category 2 and 3, Type A, Arrangement 1 seal
- Single seal
- Balanced
- Cartridge unit
- Bi-directional design
- Rotating multiple springs
- Integrated pumping device available
- Replaces the H75VN seal

Advantages

- Compact design
- Universally applicable both for retrofits or original equipment
- Efficient stock-keeping due to standardized components
- Extended selection of materials
- Extended field of operation in terms of temperature and pressure
- Metal parts also in special materials available

Operating range

Shaft diameter:
d1 = 20 ... 110 mm (0.79" ... 4.33")
Pressure: p1 = ... 42 bar (609 PSI)
Temperature:
t = -40 °C ... +176 °C (-40 °F ... +349 °F)*
Sliding velocity: vg = 23 m/s (75 ft/s)
Axial movement:
d <50 mm ±1,0 mm
d ≥50 mm ±1,5 mm

* Engineered up to 260 °C (500 °F) with FFKM (K) secondary seals.

Materials

Seal ring: Blister resistant carbon, Silicon carbide SSiC (Q1), RBSiC (Q2)
Mating ring:
Silicon carbide SSiC (Q1), RBSiC (Q2)
Secondary seals:
EPDM (E), NBR (P), FKM (V), FFKM (K)
Springs: Hastelloy® C-276 (M5)
Metal parts: CrNiMo steel 316 (G) or equivalent, optional materials on request.

Standards and approvals

- API 682 / ISO 21049
- API 682 4th ed. Cat. 2/3 - 1CW-FL

Recommended applications

- Highly volatile hydrocarbons
- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- CCUS
- Hydrogen
- Sustainable plastics production
- Alternative fuels production
- Nuclear power technology
- LPG plants
- API 610 / ISO 13709 pumps
- Process 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
API Plan 21
API Plan 22
API Plan 23

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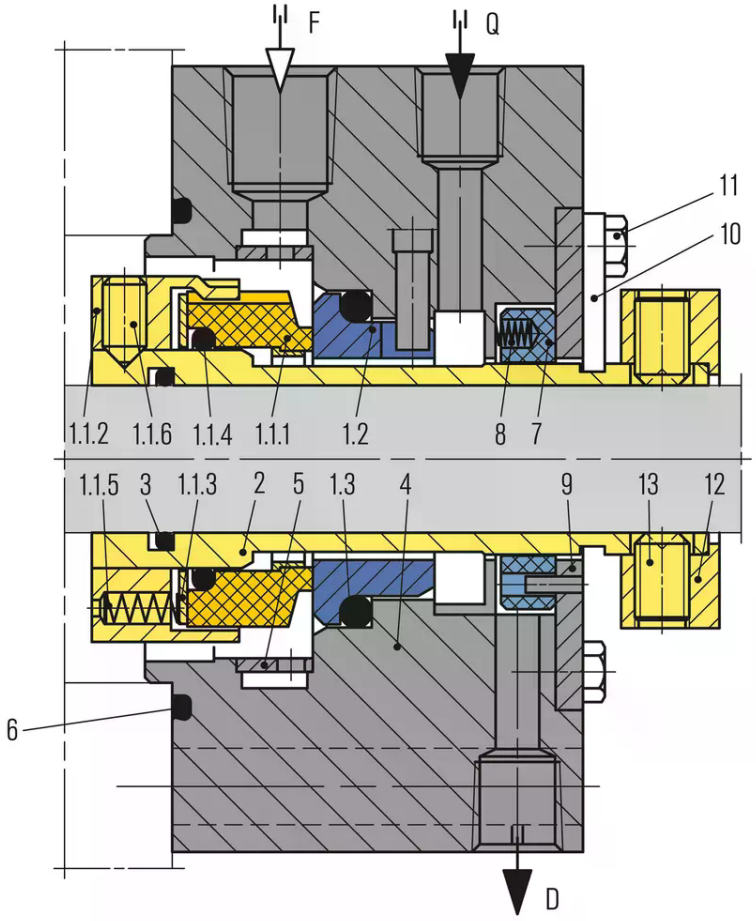
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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

API Plan 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



Item	Description
1.1.1	Seal ring
1.1.2	Driver
1.1.3	Thrust ring
1.1.4, 1.3, 3, 6	O-Ring
1.1.5, 8	Spring
1.1.6, 13	Set screw
1.2	Mating ring
2	Seal sleeve
4	Gland plate
5	Flow distributor
7	Throttle ring
9	Disc
10	Setting device
11	Hexagon bolt
12	Set ring

F Flush
Q Quench
D Drain

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