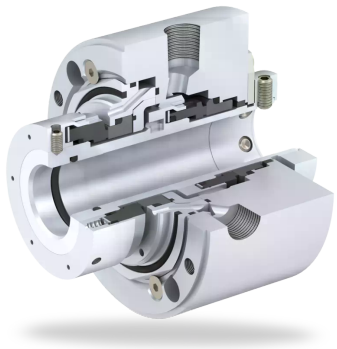
EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

# H75A4-T

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



### Features

- API 682 Category 2 and 3, Type A, Arrangement 2 and 3 seal
- Dual seal in face-to-back arrangement
- Balanced
- Cartridge unit
- Rotating multiple springs
- Integrated pumping device
- Suitable for pressure reversals
- Replaces the H75VK seal

### Advantages

- 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
- Optimized torque transmission
- 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 (76 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 rings: Blister resistant carbon, Silicon carbide SSiC (Q1), RBSiC (Q2)
Mating rings:
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 - 2CW-CW
- API 682 4th ed. Cat. 2/3 - 3CW-FB
- Compliant to TA Luft (German Clean Air Act)

### 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

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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 22
API Plan 23
API Plan 31
API Plan 32
API Plan 41

**Between seals:**
API Plan 52
API Plan 53A
API Plan 53B
API Plan 53C
API Plan 54
API Plan 55

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



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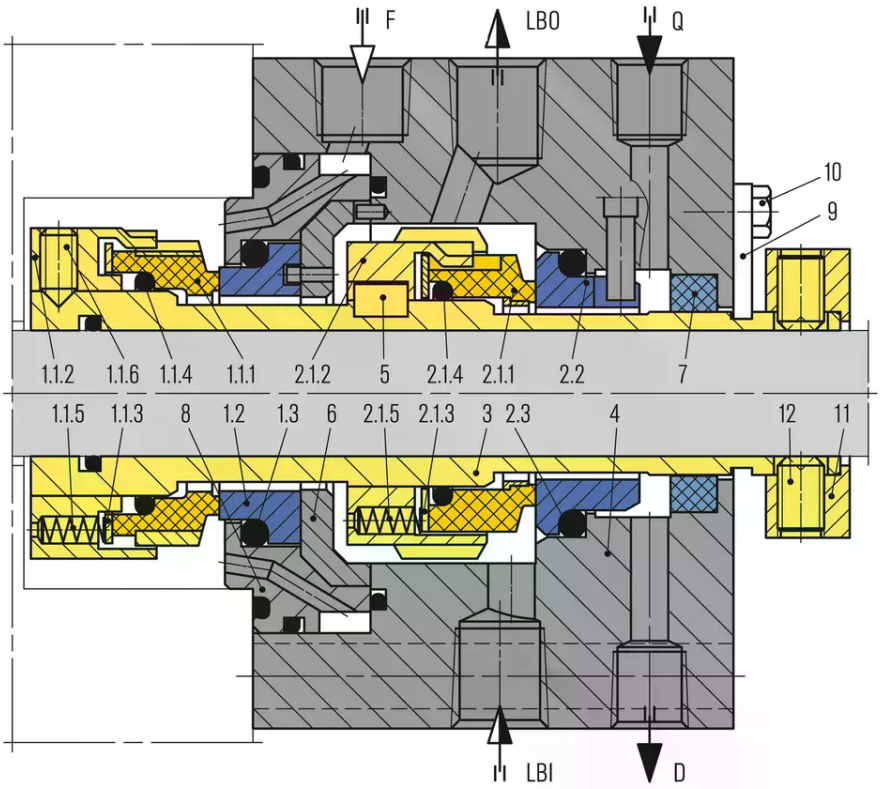


| Item | Description |
|---|---|
| 1.1.1, 2.1.1 | Seal ring |
| 1.1.2, 2.1.2 | Driver |
| 1.1.3, 2.1.3 | Thrust ring |
| 1.1.4, 1.3, 2.1.4, 2.3 | O-Ring |
| 1.1.5, 2.1.5 | Spring |
| 1.1.6, 12 | Set screw |
| 1.2, 2.2 | Mating ring |
| 3 | Seal sleeve |
| 4 | Gland plate |
| 5 | Key |
| 6 | Adapter ring |
| 7 | Throttle ring |
| 8 | Adapter |
| 9 | Setting device |
| 10 | Hexagon bolt |
| 11 | Set ring |

F Flush
LBO Liquid buffer/barrier OUT
Q Quench
LBI Liquid buffer/barrier IN
D Drain



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