

RELY ON EXCELLENCE

H75A4-C

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



Features

- API 682 Category 2 and 3, Type A, Arrangement 2 seal
- Dual seal in face-to-back arrangement
- Non-contact outer seal (containment seal)
- Balanced
- Cartridge unit
- Rotating multiple springs

Advantages

- Universally applicable both for retrofits or original equipment
- Efficient stock keeping due to standardized components
- Extended selection of materials
- Metal parts also in special materials available
- Safe operation due to metal torque transmission at the rotating carbon seal rings

Operating range

Shaft diameter:

$d_1 = 20 \dots 110 \text{ mm}$ (0,79" ... 4,33")

Pressure: $p_1 \dots 42 \text{ bar}$ (609 PSI)

Temperature:

$t = -40 \text{ °C} \dots +176 \text{ °C}$ (-40 °F ... +350 °F)

Sliding velocity: $v_g = 23 \text{ m/s}$ (76 ft/s)

Axial movement: $\pm 1.0 \text{ mm}$

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. Dimensions on request.

Standards and approvals

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

Recommended applications

- Media with gaseous leakage
- Refining technology
- Petrochemical industry
- Oil and gas industry
- CCUS
- Hydrogen
- Sustainable plastics production
- Alternative fuels production
- API 610 / ISO 13709 pumps
- Process pumps

Recommended piping plans

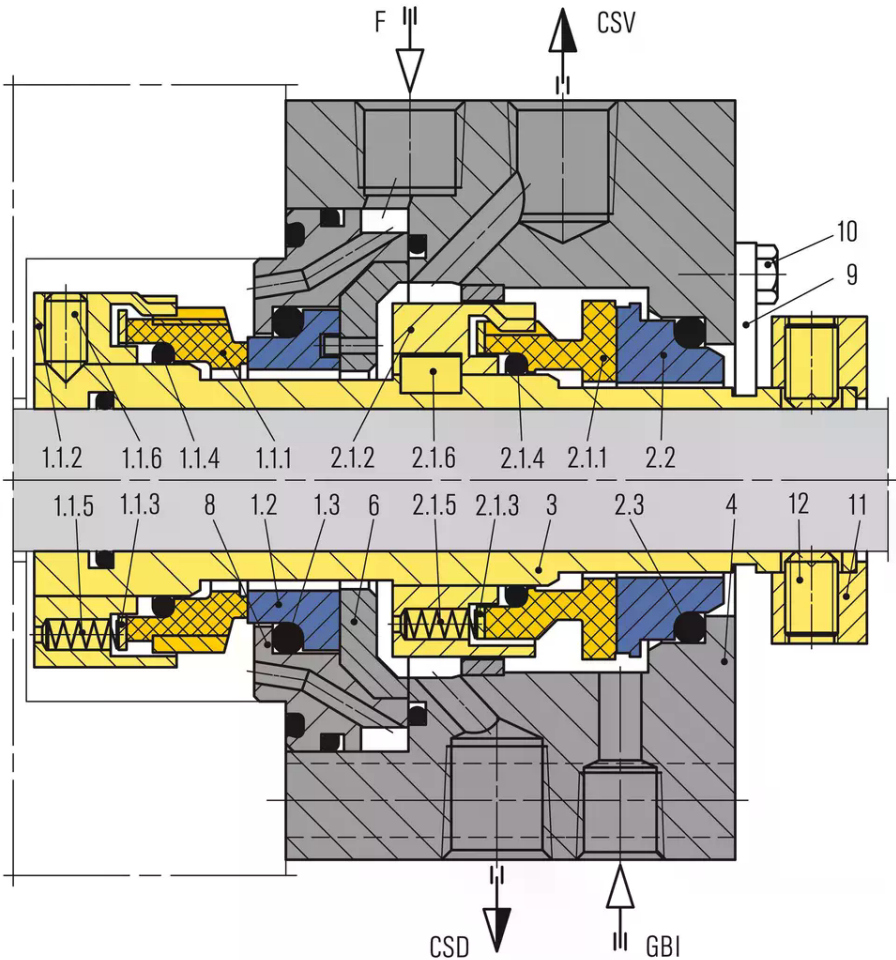
Process side:

- [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](#)
- [API Plan 31](#)
- [API Plan 32](#)
- [API Plan 41](#)

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Between seals:

- [API Plan 71](#)
- [API Plan 72](#)
- [API Plan 75](#)
- [API Plan 76](#)



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
2.1.6	Key
3	Seal sleeve
4	Gland plate
6	Insert
8	Fixing ring
9	Setting device
10	Hexagon bolt
11	Set ring

F Flush
 CSV Containment seal vent
 CSD Containment seal drain
 GBI Gas buffer IN