EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

CGSH-KD

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

Notes

- API 682 Category 2 and 3, Type A, Arrangement 3 seal
- Dual seal in back-to-back arrangement
- Cartridge unit
- Independent of direction of rotation (with U-grooves)
- Gas-lubricated
- Contact free operation, no friction
- 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

Operating range

Shaft diameter:
d1 = 20 ... 110 mm (0.79" ... 4.33")
Pressure: p1 = 23 bar (333 PSI)
Temperature:
t = -20 ... +176 °C (-4°F ... +350°F)
Sliding velocity: vg = 23 m/s (76 ft/s)
Axial movement: ±1.0 mm

Materials

Seal ring: Blister resistant carbon, Silicon carbide SSiC (Q1)
Mating ring:
Silicon carbide SSiC (Q1), RBSiC (Q2)
Secondary seals:
EPDM (E), NBR (P), FKM (V), FFKM (K)
Springs: Hastelloy® C-4 (M)* and C-276 (M5)
Metal parts: CrNiMo steel 316 (G) or equivalent, optional materials on request.

* EagleBurgmann standard

Standards and approvals

- API 682 / ISO 21049
- API 682 4th ed. Cat. 2/3 - 3NC-BB
- API 682 4th ed. Cat. 1 - 3NC-BB

Recommended applications

- Media with gaseous leakage
- Refining technology
- Petrochemical industry
- Chemical industry
- Oil and gas industry
- CCUS
- 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 21
API Plan 22
API Plan 31
API Plan 32
API Plan 41

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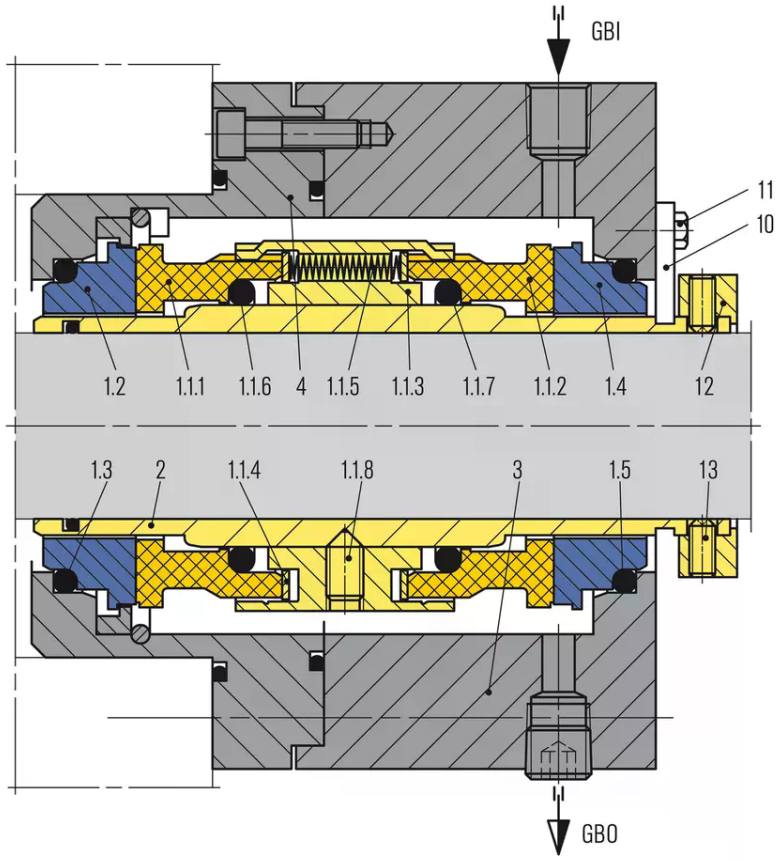
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case.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



Between seals:
API Plan 74

* Piping plans 11 ... 41: Integration in seal to be dimensionally checked.

Item	Description
1.1.1, 1.1.2	Seal ring
1.1.3	Driver
1.1.4	Thrust ring
1.1.5	Spring
1.1.6, 1.1.7, 1.3, 1.5	O-Ring
1.1.8, 13	Set screw
1.2, 1.4	Mating ring
2	Seal sleeve
3, 4	Gland plate
10	Setting device
11	Hexagon bolt
12	Set ring

GBI Gas barrier IN
GBO Gas barrier OUT

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