EagleBurgmann
a member of EKK and FREUDENBERG

RELY ON EXCELLENCE

HRGS-DD

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

Features

- API 682 Category 2 and 3, Type A, Arrangement 3 seal
- Dual seal in face-to-back arrangement
- Gas-lubricated
- Balanced
- Cartridge unit
- Independent of direction of rotation
- Stationary springs
- Contact free operation, no friction

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 = 42 bar (609 PSI)
Temperature:
t = -20 °C ... +176 °C (-4 °F ... +350 °F)
Sliding velocity:
vg = 4 ... 23 m/s (13 ... 76 ft/s)
Axial movement: ±1.0 mm

Materials

Seal ring (product side):
Silicon carbide Q19, SSiC (Q1)
Seal ring (atmospheric side):
Blister resistant carbon,
Silicon carbide SSiC (Q1), Q19
Mating rings:
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-FB

Recommended applications

- Gases and liquids
- Media which require high purity
- Environmental harmful media
- Refining technology
- Petrochemical industry
- Oil and gas industry
- 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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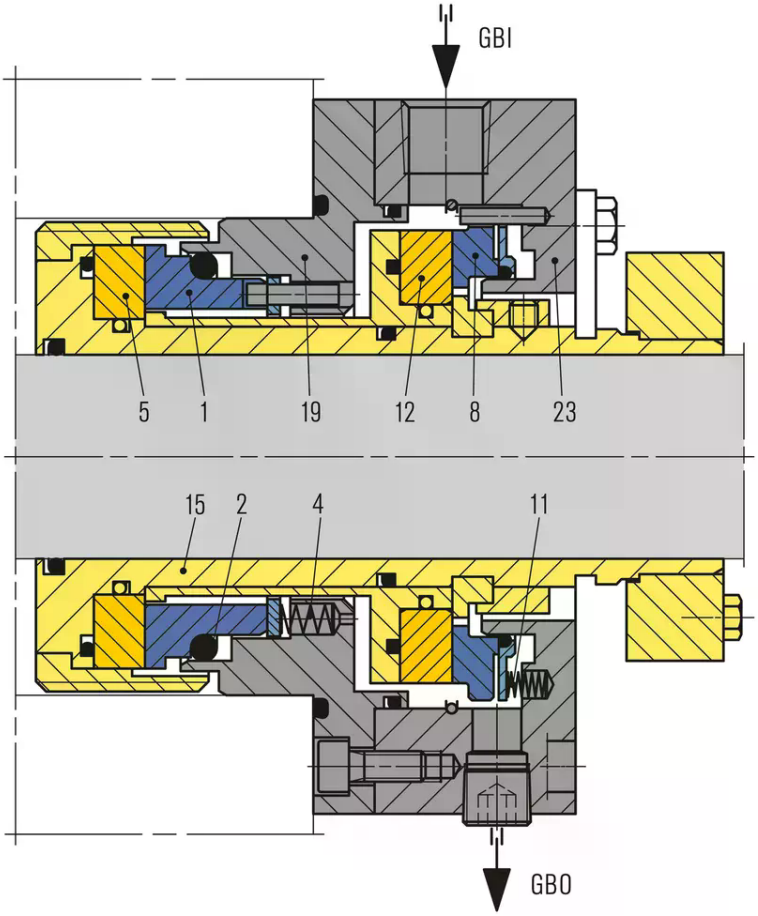

Between seals:
API Plan 74

Item	Description
1, 8	Seal ring
4, 11	Spring
5, 12	Mating ring
15	Seal sleeve
19	Insert
23	Gland plate

GBI Gas barrier IN
GBO Gas barrier OUT