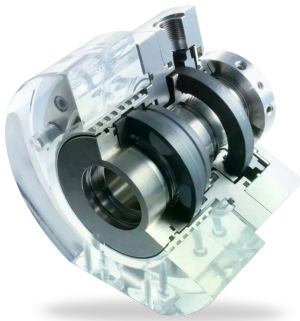


RELY ON EXCELLENCE

HRGS-DD

API 682 4th edition product range | 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

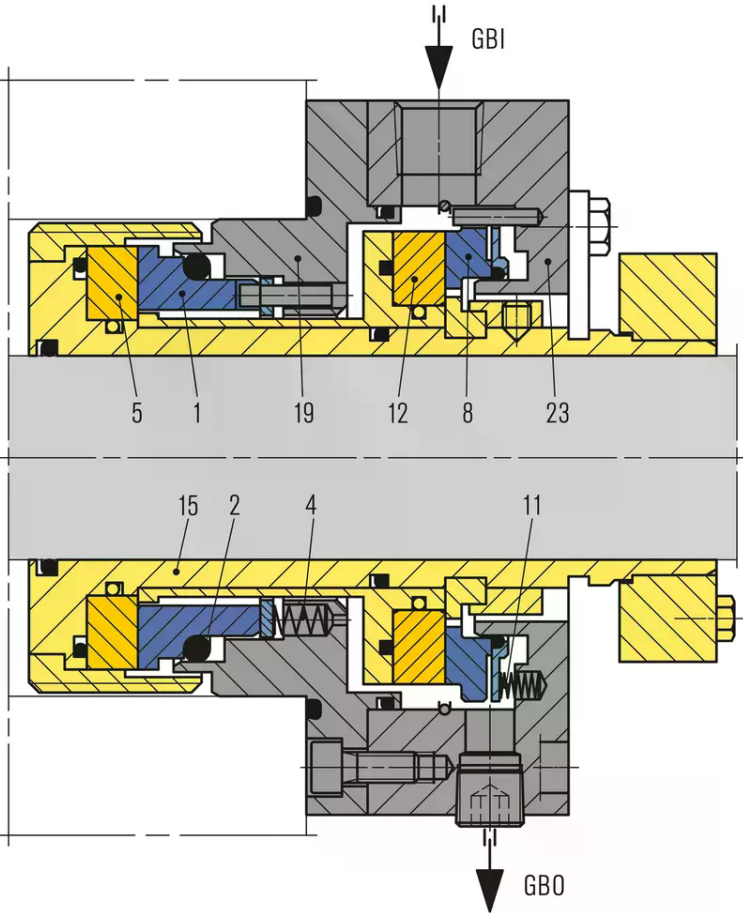
- Gases and liquids
- Media which require high purity
- Environmental harmful media
- Refining technology
- Petrochemical industry
- Oil and gas industry
- API 610 / ISO 13709 pumps
- Process pumps

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

RELY ON EXCELLENCE



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