

RELY ON EXCELLENCE

## RGS-D

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-face arrangement
- Gas-lubricated
- Balanced
- Cartridge unit
- Independent of direction of rotation
- Stationary spring on process and atmospheric side
- 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:  
 $d_1 = 20 \dots 110 \text{ mm} (0.79 \dots 4.33 \text{")}$ \*  
 Pressure:  $p_1 = 42 \text{ bar} (609 \text{ PSI})$   
 Temperature:  
 $t = -20 \text{ °C} \dots +176 \text{ °C} (-4 \text{ °F} \dots +350 \text{ °F})$   
 Sliding velocity:  
 $vg = 4 \dots 23 \text{ m/s} (13 \dots 76 \text{ ft/s})$   
 Axial movement:  $\pm 1.0 \text{ mm}$

### Materials

Seal rings: Blister resistant carbon, Silicon carbide 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-FF

### 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\*:

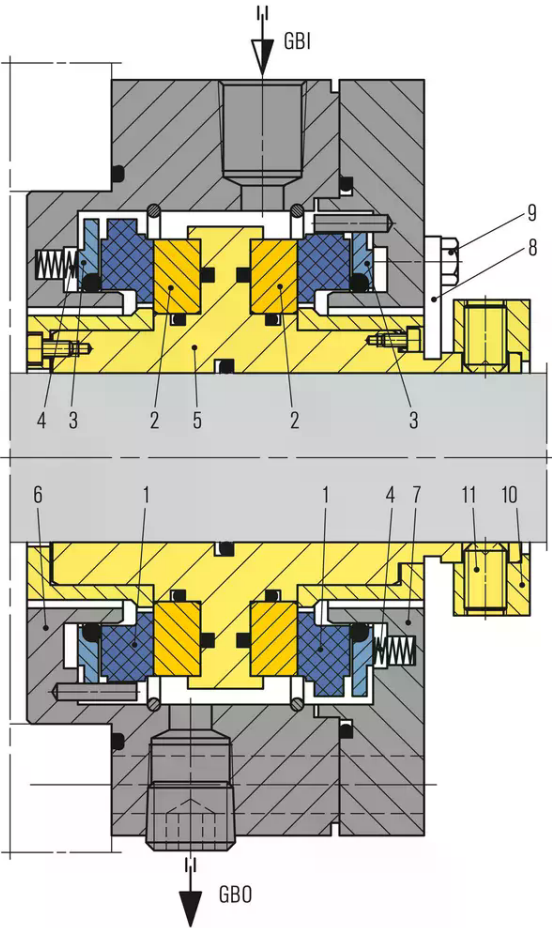
API Plan 01  
 API Plan 02  
 API Plan 03  
 API Plan 11  
 API Plan 12  
 API Plan 21  
 API Plan 22  
 API Plan 31  
 API Plan 32  
 API Plan 41

#### Between seals:

API Plan 74

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



Item	Description
1	Seal ring
2	Mating ring
3	Thrust ring
4	Spring
5	Seal sleeve
6, 7	Gland plate
8	Setting device
9	Hexagon bolt
10	Set ring
11	Set screw

GBI Gas barrier IN  
 GBO Gas barrier OUT