

HBrinker Mechanical Seal

Gus Lubricated seals Mechanical Seal HBRGS-D



Mechanical Seal HBRGS-D

Operating range

Shaft diameter: $\pm dw = 20 \dots 200 \text{ mm}$ (0.787" ... 7.874")

Pressure HRGS-DC: $p_1 = \dots 22 \text{ bar}$ (319 PSI)

- $p_3 = \dots 25 \text{ bar}$ (363 PSI)

Pressure HRGS-DD: $p_1 = \dots 40 \text{ bar}$ (580 PSI)

- $p_3 = \dots 43 \text{ bar}$ (624 PSI)

Operating temperature limits for:

- EPDM -20 °C ... +140 °C (-4 °F ... +284 °F)
- FFKM -20 °C ... +120 °C (-4 °F ... 248 °F)
- FKM -20 °C ... +170 °C (-4 °F ... 338 °F)

Sliding velocity: $v_g = 4 \dots 25 \text{ m/s}$ (13 ... 82 ft/s)

Differential pressure $\Delta p = \text{min. } 3 \text{ bar}$ (44 PSI), max. 16 bar (232 PSI)
(internal pressure)

Materials

Product side (HRGS-DC, HRGS-DD):

- Seal face: Silicon carbide (Q19, Q29)
- Seat: Silicon carbide (Q1, Q2)

Atmosphere side HRGS-DC:

- Seal face: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B)
- Seat: Silicon carbide (Q1, Q2)

Atmosphere side HRGS-DD:

- Seal face: Silicon carbide (Q19, Q29)
- Seat: Silicon carbide (Q1, Q2)
- Springs: CrNiMo steel (G), Hastelloy® C-4 (M)
- Metal parts: CrNiMo steel (G), Hastelloy® C-4(M)

Features

- Double seal
- Balanced
- Standard version with U-grooves (bidirectional)
- Gas-lubricated

Recommended applications

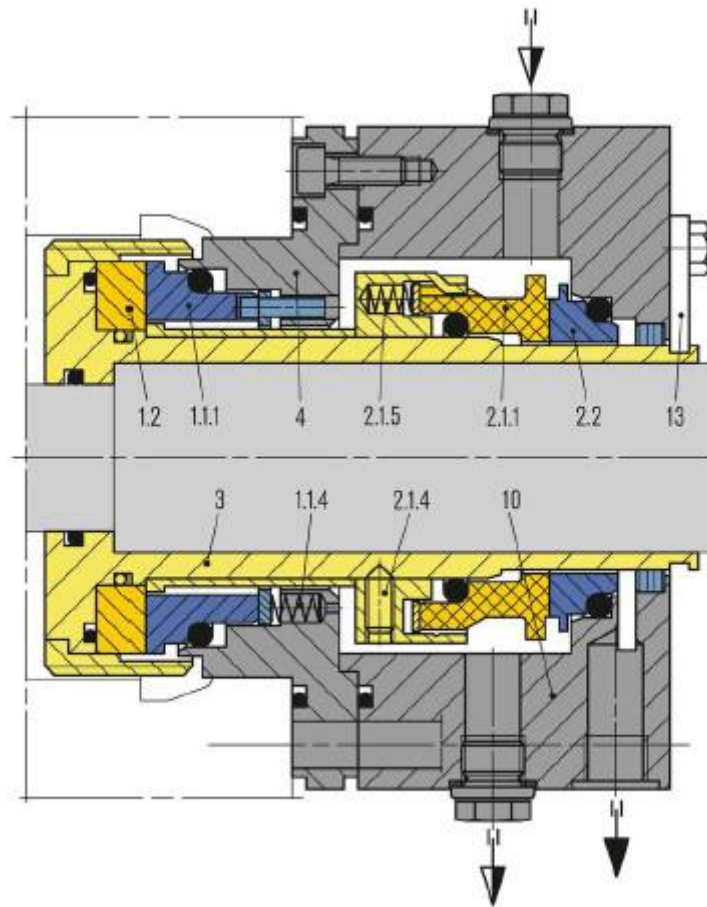
- Chemical industry
- Refining technology
- Gases and liquids
- Media which require high purity
- Environmental harmful media
- Pumps

Advantages

- Contact-free operation
- Suitable for solids containing media
- Internally pressurized
- Cartridge unit
- Does not open in the event of buffer pressure failure, self closing at pressure reversal
- HR principle with rotating seat
- No friction on the seal faces, no heat generated at the seal or in the medium

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Item	Part ni. DIN 24250	Description
1.1.1	472.1	Seal face
1.1.4	477	Spring
1.2	475.1	Seat
2.1.1	472.2	Seal face
2.1.4	485	Drive collar
2.1.5	477	Spring
2.2	475.2	Seat
3	523	sleeve
4	513	Insert
10	441	Housing
13		Assembly fixture