



## Mechanical Seal HBHV

### Operating range

Shaft diameter:  $d_1 = 30 \dots 140$  mm (1.1811" ... 5.5118") Other sizes on request

Temperature:  $t = -40 \text{ }^\circ\text{C} \dots +380 \text{ }^\circ\text{C}$  (-40 °F ... +716 °F) With adapted cooling devices for high temperature applications

Sliding velocity:  $v_g = 50$  m/s (164 ft/s)

Axial movement:  $\pm 3$  mm

### Sliding material combination: AQ2

Dynamic pressure:  $p_1 = 100$  bar (1,450 PSI)

Static pressure:  $p_1 = 240$  bar (3,481 PSI)

### Sliding material combination Q3Q2:

Dynamic pressure:  $p_1 = 120$  bar (1,740 PSI)

Static pressure:  $p_1 = 160$  bar (2,320 PSI)

### Materials

- Seal face: Carbon graphite antimony impregnated (A), silicon impregnated carbon (Q3)
- Seat: Silicon carbide (Q2)
- Secondary seals: FKM (V), FFKM (K), EPDM (E)
- Springs: Hastelloy® C-4 (M)
- Metal parts: CrNiMo steel (G), Duplex (G1), Super Duplex (G4)

### Features

- Single seal in cartridge design
- Balanced
- <sup>V</sup> Multiple springs
- Stationary spring loaded unit
- Shrink-fitted seal face
- Rugged mating ring

### Advantages

- Deformation-optimized seal for high sliding velocities and high pressures
- Economical due to standardized inner components
- High flexibility due to adaptation of the connection parts to the pump seal chamber
- Insensitive to shaft deflections due to stationary design
- Pre-assembled unit for quick and easy installation
- Suitable for use in compliance with API 682, type ES
- Version with loose-fitted seal face available, for extreme applications
- Only small number of components

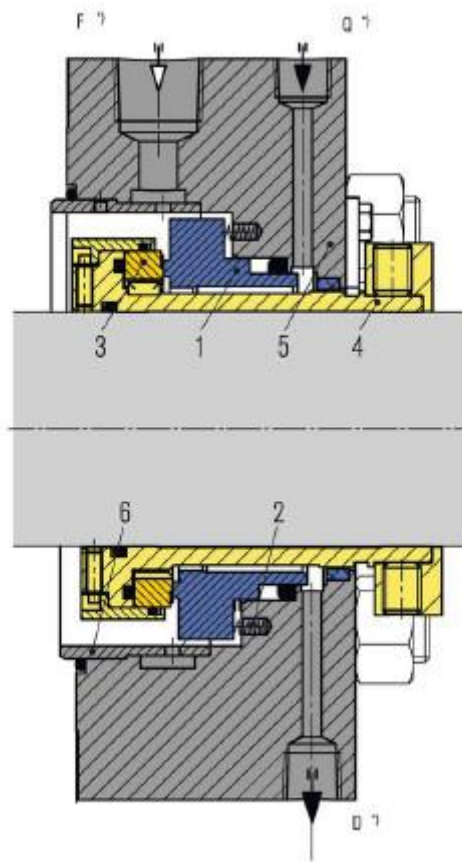
### Recommended applications

- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology
- Pulp and paper industry
- Water and waste water technology
- Desalination

# HBrinker Mechanical Seal

Engineered seals

Mechanical Seal HBHV



Item	Description
1	Seal Face
2	Spring
3	Seat
4	Shaft Sleeve
5	Cover
6	Multipoint injection