

# HBrinker Mechanical Seal

Pusher seals Mechanical Seal HB75VN



## Mechanical Seal HB75VN

### Operating range

Shaft diameter:  $d = 20 \dots 110 \text{ mm}$  (0.79" ... 4.33")\*

Pressure:  $p_1 = 40 \text{ bar}$  (580 PSI)

Temperature:  $t = -40 \text{ }^\circ\text{C} \dots +220 \text{ }^\circ\text{C}$  (-40 °F ... 428 °F)

Sliding velocity:  $v_g = 23 \text{ m/s}$  (75 ft/s)

Axial movement:  $\pm 2.0 \dots 4.0 \text{ mm}$  depending  
on diameter and installation situation

### Materials

- Seal face: Carbon graphite antimony impregnated (A)
- Seat: Silicon carbide (Q1, Q2)
- Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K)
- Springs: Hastelloy® C-4 (M)
- Metal parts: CrNiMo steel (G), Duplex (G1), Hastelloy® C-4 (M)

### Features

- Single seal
- Cartridge unit
- Design acc. to API 682 / ISO 21049
- Category 2 and 3, Type A, Arrangement 1
- Independent of direction of rotation
- Rotating multiple springs
- Integrated pumping device available (HB75VP)

### Advantages

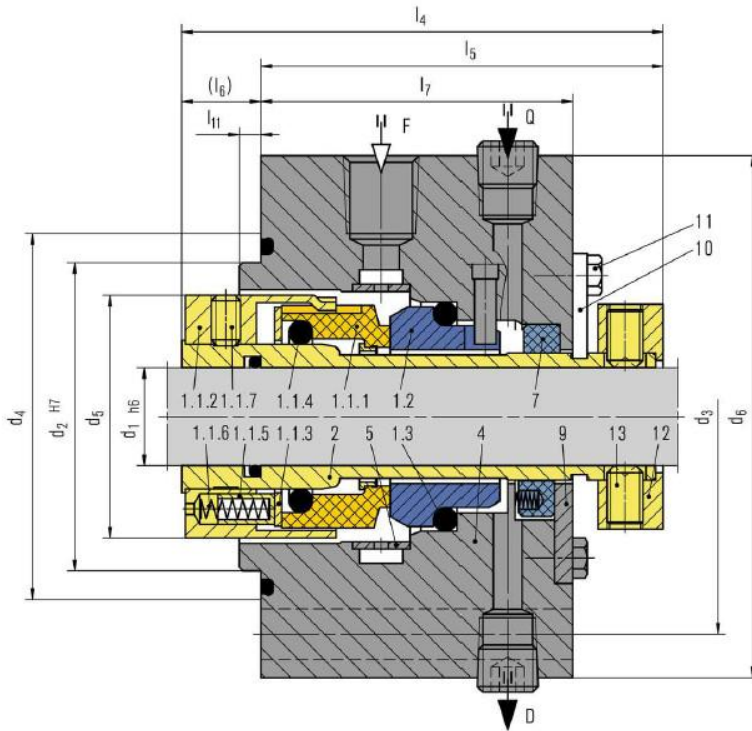
- "Low-Emission-Seal" acc. to the American STLE-limits
- Universally applicable both for retrofits or original equipment
- Efficient stock-keeping due to standardized components
- Extended selection of materials
- Extended field of operation in terms of temperature and pressure
- Metal parts also in special materials available

### Recommended applications

- Process industry
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Power plant technology
- Light hydrocarbons
- Hot water
- API 610 / ISO 13709 pumps
- Process pumps

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Item	Description
1.1.1	Seal face
1.1.2	Driver
1.1.3	Thrust ring
1.1.4,1.3	O-Ring
1.1.5	Sleeve
1.1.6	Spring
1.1.7	Set screw
1.2	Seat
2	Shaft sleeve
4	Housing
5	Insert
7	Throttle ring
9	Washer
10	Assembly fixture
11	Hexagon bolt
12	Set ring
13	Set screw

Dimension Table in millimeter

API/d <sub>1</sub>	API/d <sub>2</sub>	API/d <sub>3</sub>	API/d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	L <sub>4</sub>	L <sub>5</sub>	L <sub>6</sub>	L <sub>7</sub>	L <sub>11</sub>	Overall length
20	70	105	85	50	138	95.0	94.00	1.0	76.0	6	100
30	80	115	95	62	148	100.5	98.0	2.5	77.0	6	104
40	90	125	105	72	158	105.5	98.5	7.0	77.5	6	125
50	100	140	115	86	168	111.5	99.5	12.0	78.5	6	140
60	120	160	135	99	188	120.5	102.0	18.5	81.0	6	160
70	130	170	145	109	198	124.5	106.0	18.0	81.0	6	170
80	140	180	155	119	208	129.0	106.0	23.0	81.0	6	180
90	160	205	175	129	238	129.0	106.0	23.0	81.0	6	205
100	170	215	185	153	248	133.0	109.0	24.0	81.0	6	215
110	180	225	195	168	258	133.0	109.0	24.0	81.0	6	225