

# HBrinker Mechanical Seal

Pusher seals Mechanical Seal HBA211



## Mechanical Seal HBA211

### Operating range

- Pressure:  $p = 12$  bar (174 PSI)
- Temperature:  $t = -20$  °C ... 160 °C (-4 °F ... +320 °F)
- Sliding velocity: ... 20 m/s (66 ft/s)
- Viscosity: ... 300 Pa·s
- Solids content: ... 7 %



### Materials

- Seal face: Silicon carbide (Q1)
- Seat: Silicon carbide (Q1)
- Secondary seals: EPDM (E), FKM (V)
- Metal parts: CrNiMo steel (G)

### Features

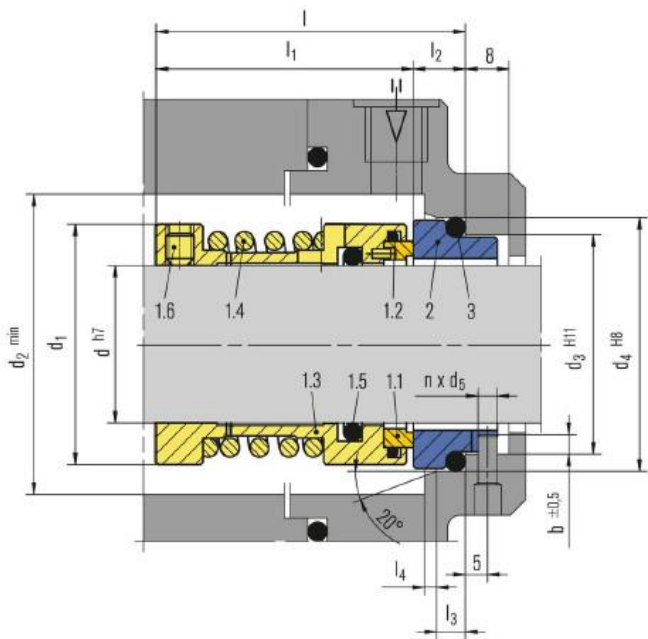
- Single seal
- Unbalanced
- Independent of direction of rotation
- Positive torque transmission due to bayonet drive between seal head and drive collar
- O-Ring groove for ventilation prevents solids build-up and enhances flexibility

### Recommended applications

- Pulp and paper industry
- Water and waste water technology
- High-viscosity liquids
- Pulp suspensions
- Process pumps
- Pulp pumps

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| Item | Description  |
|------|--------------|
| 1.1  | Seal face    |
| 1.2  | O-Ring       |
| 1.3  | Drive collar |
| 1.4  | Spring       |
| 1.5  | O-Ring       |
| 1.6  | Set screw    |
| 2    | Seat         |
| 3    | O-Ring       |

v

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Dimension Table in millimeter

| d   | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | l    | l <sub>1</sub> | l <sub>2</sub> | l <sub>3</sub> | l <sub>4</sub> | b   |
|-----|----------------|----------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|-----|
| 20  | 34             | 36             | 29             | 35             | 3              | 51   | 41             | 10.0           | 5,5            | 2.0            | 3.5 |
| 24  | 38             | 40             | 33             | 39             | 3              | 53   | 43             | 10.0           | 5,5            | 2.0            | 3.5 |
| 25  | 39             | 41             | 34             | 40             | 3              | 53   | 43             | 10.0           | 5,5            | 2.0            | 3.5 |
| 28  | 42             | 44             | 37             | 43             | 3              | 55   | 45             | 10.0           | 5,5            | 2.0            | 3.5 |
| 30  | 44             | 46             | 39             | 45             | 3              | 55   | 45             | 10.0           | 5,5            | 2.0            | 3.5 |
| 32  | 46             | 48             | 42             | 48             | 3              | 55   | 45             | 10.0           | 5,5            | 2.0            | 3.5 |
| 33  | 47             | 49             | 42             | 48             | 3              | 55   | 45             | 10.0           | 5,5            | 2.0            | 3.5 |
| 35  | 49             | 51             | 44             | 50             | 3              | 59   | 49             | 10.0           | 5,5            | 2.0            | 3.5 |
| 38  | 54             | 58             | 49             | 56             | 4              | 64   | 53             | 11.0           | 6              | 2.0            | 4.0 |
| 40  | 56             | 60             | 51             | 58             | 4              | 66   | 55             | 11.0           | 6              | 2.0            | 4.0 |
| 43  | 59             | 63             | 54             | 61             | 4              | 66   | 55             | 11.0           | 6              | 2.0            | 4.0 |
| 45  | 61             | 65             | 56             | 63             | 4              | 66   | 55             | 11.0           | 6              | 2.0            | 4.5 |
| 48  | 64             | 68             | 59             | 66             | 4              | 66   | 55             | 11.0           | 6              | 2.0            | 4.5 |
| 50  | 66             | 70             | 62             | 70             | 4              | 73   | 60             | 13.0           | 6              | 2.5            | 4.5 |
| 53  | 69             | 73             | 65             | 73             | 4              | 74   | 61             | 13.0           | 6              | 2.5            | 5.0 |
| 55  | 71             | 75             | 67             | 75             | 4              | 74   | 61             | 13.0           | 6              | 2.5            | 5.0 |
| 60  | 78             | 85             | 72             | 80             | 4              | 76   | 63             | 13.0           | 6              | 2.5            | 5.0 |
| 63  | 81             | 88             | 75             | 83             | 4              | 76   | 63             | 13.0           | 6              | 2.5            | 5.0 |
| 65  | 84             | 90             | 77             | 85             | 4              | 80   | 67             | 13.0           | 6              | 2.5            | 5.0 |
| 70  | 90             | 95             | 83             | 92             | 4              | 83   | 68             | 15.0           | 7              | 2.5            | 5.0 |
| 75  | 95             | 104            | 88             | 97             | 4              | 87   | 72             | 15.0           | 7              | 2.5            | 5.0 |
| 80  | 100            | 109            | 95             | 105            | 4              | 87.5 | 72             | 15.5           | 7              | 3.0            | 6.0 |
| 85  | 107            | 114            | 100            | 110            | 4              | 92.5 | 77             | 15.5           | 7              | 3.0            | 6.0 |
| 90  | 112            | 119            | 105            | 115            | 4              | 92.5 | 77             | 15.5           | 7              | 3.0            | 6.0 |
| 95  | 119            | 124            | 110            | 120            | 4              | 97.5 | 82             | 15.5           | 7              | 3.0            | 6.0 |
| 100 | 124            | 129            | 115            | 125            | 4              | 97.5 | 82             | 15.5           | 7              | 3.0            | 6.0 |