

# HBrinker Mechanical Seal

Agitator seal Mechanical Seal HBSMR



## Mechanical Seal HBSMR

### Operating range

Shaft diameter:  $d_1 = 35 \dots 220$  (300) mm (1.38" ... 8.66"(11.81"))

Axial offset shaft/housing:  $d_1 = 35 \dots 60$  mm (1.38" ... 2.36"): max.  $\pm 1.5$  mm (0.059")

$d_1 > 60$  mm (2.36"): max.  $\pm 2.0$  mm (0.079")

Radial offset shaft/housing: max.  $\pm 0.3$  mm (0.012")

Pressure:  $p_1 = \text{Vacuum} \dots 6$  bar (87 PSI)

Temperature:  $t_1 = -20$  °C ... +200 °C (-4 °F ... +392 °F)

Sliding velocity:  $v_g = 0 \dots 2$  m/s (0 ... 6 ft/s)

### Materials

- Seal face: Carbon graphite, FDA conform
- Seat: Silicon carbide, FDA conform
- Secondary seals and metal parts according to application and customer's specifications.

### Features

- For top, side and bottom entry drives
- Dry running
- Nitrogen pressurized dual seal
- Rotating seat at product side
- Balanced
- Independent of direction of rotation

### Advantages

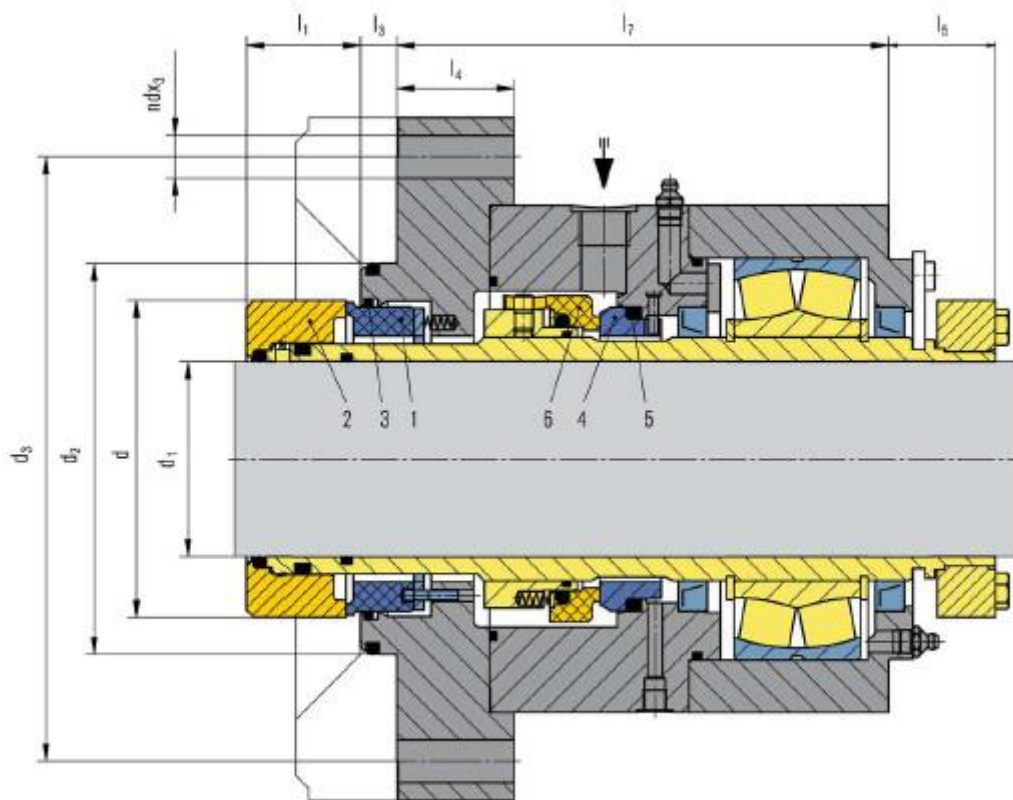
- Ready-to-fit and factory-tested units
- With or without bearing available
- Smooth surface, free of dead spaces
- No contamination of the product by barrier fluid
- Friction-locked connection to the shaft
- ATEX certification available on request

### Recommended applications

- Refining technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Agitators
- Mixers
- Kneaders
- Dryers
- Reactors

# HBrinker Mechanical Seal

Agitator seal Mechanical Seal HBSMR



Item	Description
1	Seal face, product side
2	Seat, product side
3	O-Ring, dynamic
4	Seat, atmosphere side
5	O-Ring
6	Seal face, atmosphere side

# HBrinker Mechanical Seal

Agitator seal    Mechanical Seal HBSMR



Dimension Table

d <sub>1</sub>	d	l <sub>1</sub>	d <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	n x d <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>7</sub>
35	68	43	105	13	148	8 x 13.5	35.5	20.5	141.0
45	82.7	43	119.5	13	166	8 x 13.5	43.0	26.0	149.5
50	90.0	43	119.5	13	190	8 x 17.5	40.5	28.5	165.0
60	100.0	43	134.5	14	200	8 x 17.5	41.0	28.0	173.0
80	130.0	46	160.5	15	248	8 x 17.5	48.0	34.0	212.0
100	150.0	49	181.5	12	264	8 x 22.0	54.0	33.5	219.0
120	172.0	49	209.5	12	293	8 x 22.0	52.0	40.0	232.0
140	195.0	49	224.5	12	338	12 x 22.0	52.0	39.5	251.5

