



## Mechanical Seal HBP-D

### Operating range

Temperature:  $t = -20\text{ }^{\circ}\text{C} \dots +140\text{ }^{\circ}\text{C}$  ( $-4\text{ }^{\circ}\text{F} \dots +284\text{ }^{\circ}\text{F}$ ) ( $180\text{ }^{\circ}\text{C}$  ( $356\text{ }^{\circ}\text{F}$ ) with Kalrez® elastomers)

Pressure:  $p_1 \dots 25\text{ bar}$  (363 PSI),  $p_3 < 12\text{ bar}$  (174 PSI)

Sliding velocity:  $v_g \dots 20\text{ m/s}$  (66 ft/s)

Stock content:  $< 8\%$

### Non-flow operation:

Temperature:  $t = +5\text{ }^{\circ}\text{C} \dots +100\text{ }^{\circ}\text{C}$  ( $+41\text{ }^{\circ}\text{F} \dots +212\text{ }^{\circ}\text{F}$ )

Pressure:  $p_1 \text{ max. } 10\text{ bar}$  (145 PSI),  $p_3 > p_1$

Sliding velocity:  $v_g < 10\text{ m/s}$  (33 ft/s)

### Features

- Integrated seal for Sulzer A pumps
- Dual seal, balanced
- Semi cartridge unit
- Independent of direction of rotation
- Double pressure balanced
- Internal barrier fluid circulation
- Static springs on both sides
- No dynamic O-Ring on shaft
- Rugged design
- Shrink-fitted seal faces
- Seal faces have a large clearance to the shaft
- Wear part cost minimized

### Materials

- Seal face: Silicon carbide (Q12), Carbon (A)
- Secondary seals: FKM (V), EPDM (E), FFKM (K)
- Metal parts: CrNiMo steel (G), Grade 5A (4T), SMO 654 (4U)

### Advantages

- Individually integrated to equipment for the best sealing result
- Straightforward and easy installation
- Static springs on both face sides reduces influence of misalignment
- No damage of the shaft by dynamically loaded O-Rings
- Extended service life due to rugged design
- No brittle parts in contact with torque transmission pins
- Seal faces protected by strong steel parts and a large radial clearance

### Recommended applications

- Pulp and paper industry
- Chemical industry
- Clean, abrasive or corrosive liquids
- Stocks of various kind
- Applications where crystallization is a problem
- Sulzer Ahlstar A (MS11) centrifugal pumps

# HBrinker Mechanical Seal

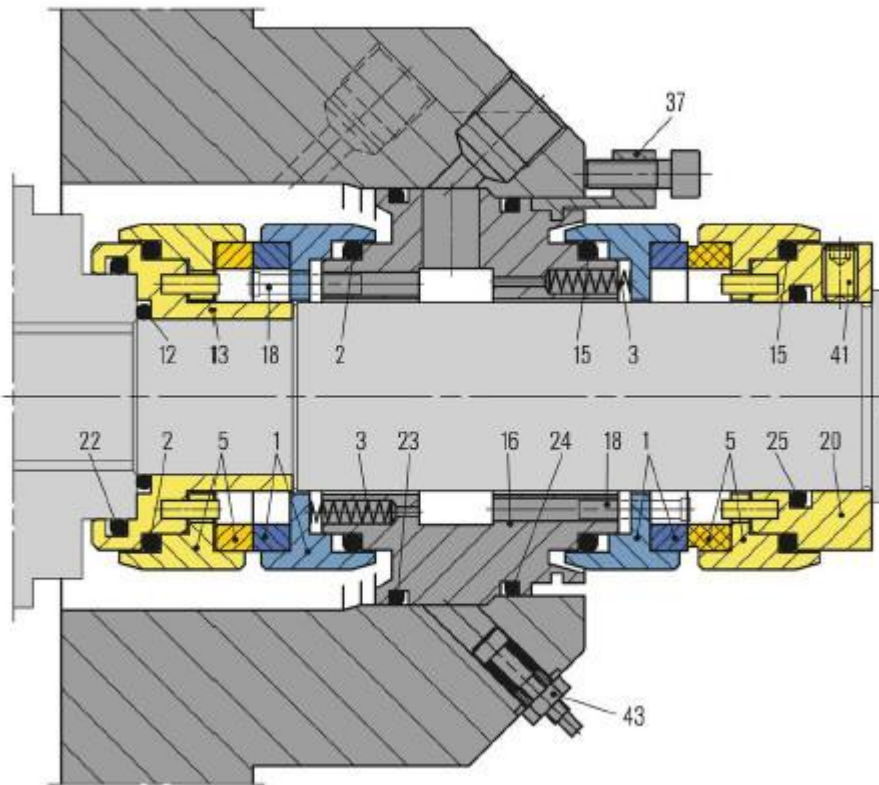
Engineered seals

Mechanical Seal HBP-D



**H-Brinker**

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Item	Description
1	Seal face
5	Seat
13	Sleeve
16	Housing
18	Pin
37	Locking fixture
2,12,15,22,23,24,25	O-Ring
43	Plug
LP-D-UP	Dual seal