

HBrinker Mechanical Seal

Engineered seals

Mechanical Seal HBP-D



H-Brinker

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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

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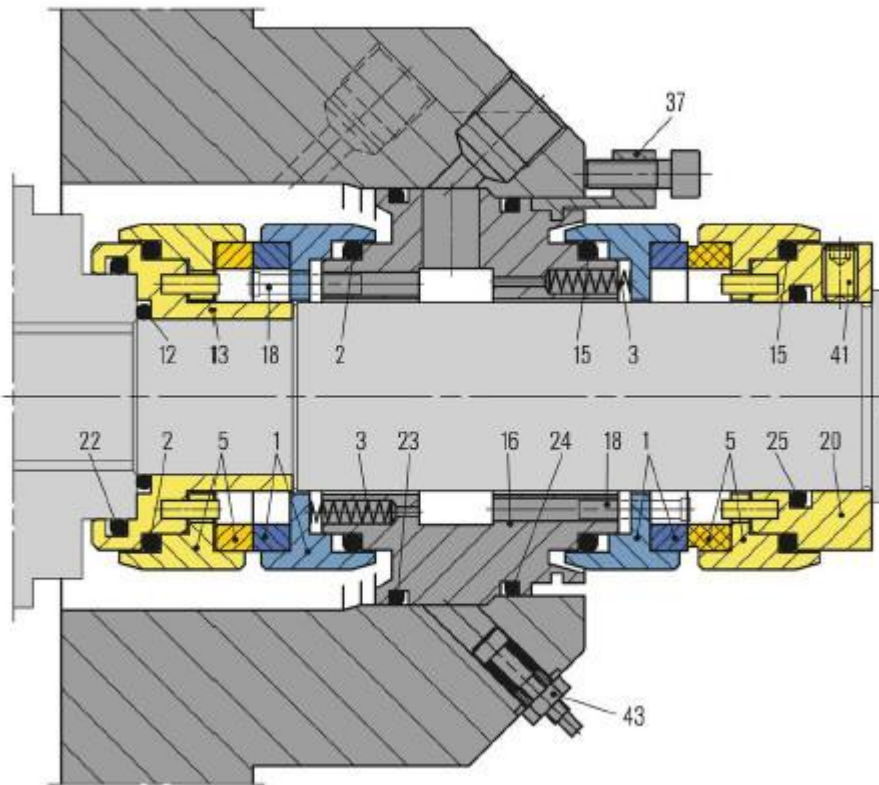
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Item	Description
1	Seal face
5	Seat
13	Sleeve
16	Housing
18	Pin
37	Locking fixture
2,12,15,22,23,24,25	O-Ring
43	Plug
LP-D-UP	Dual seal