

RELY ON EXCELLENCE

LP-D

Mechanical seals | Mechanical seals for pumps | Engineered seals



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
- Optimized design for Non-Flow use

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

Operating range

Temperature:

t = -20 °C ... +140 °C (-4 °F ... +284 °F) (180 °C (356 °F) with Kalrez® elastomers) Pressure:

p1... 25 bar (363 PSI), p3 <12 bar (174 PSI) Sliding velocity: vg ... 20 m/s (66 ft/s) Stock content: <8 %

Non-flow operation: Temperature: $t = +5 \degree C \dots +100 \degree C (+41 \degree F \dots +212 \degree F)$ Pressure: p1 max. 10 bar (145 PSI), p3 > p1 Sliding velocity: vg <10 m/s (33 ft/s)

Materials

Seal face: Silicon carbide (012), Carbon (A) Secondary seals: FKM (V), EPDM (E), FFKM (K) Metal parts: CrNiMo steel (G), Grade 5A (4T), SMO 654 (4U)

Notes

- Double, quench and single seals have the same wear parts on the prouduct side, reduces stock holding costs
- The dual seal can also be used as single seal by removing the atmospheric seal parts
- Can be used with pressurized buffer fluid or with quench

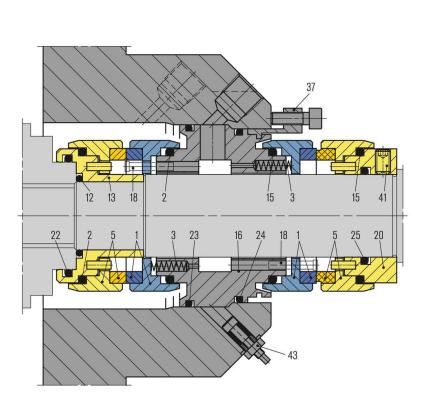
Recommended applications

- Pulp and paper industry
- Chemical industry
- CCUS
- Lithium
- Alternative fuels production
- 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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ltem	Designation
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 Ready-fitted for Ahlstar UP A MS21 range of pumps, bearing unit A1-A6	

Product variants

LP-D-S32-D20

Dual seal, adapted for Sulzer APP/APT pumps. LP-D-SL Dual, adapted for Sulzer SL Mixers. Further designs available to fit in numerous other equipment from notable manufacturers for the Pulp- and Paper Industry e.g., Metso conical refiners, Andritz pressure screens and stock pumps.

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We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. This is subject to change.