EagleBurgmann
a member of EKK and FREUDENBERG

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

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

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 °C ... +100 °C (+41 °F ... +212 °F)
Pressure:
p1 max. 10 bar (145 PSI), p3 > p1
Sliding velocity: vg <10 m/s (33 ft/s)

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)

Recommended applications

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

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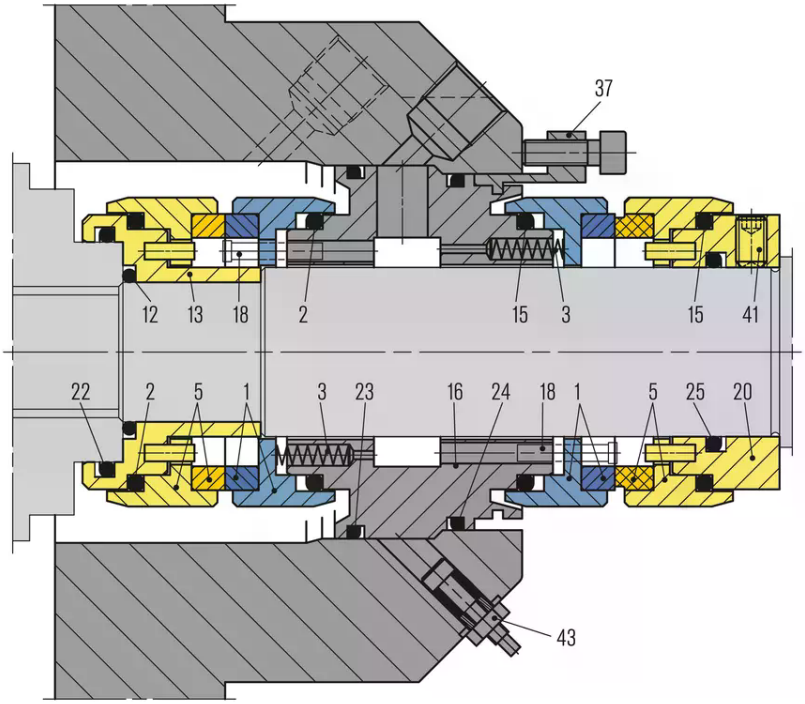
All technical specifications are based on extensive tests and our many years of experience. The diversity of possible applications means, however, that they can serve only as guide values.
We must be notified of the exact conditions of application before we can provide any guarantee for a specific case. Subject to change.



Item	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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