

LP-D-S32-D20

Designed for Sulzer APP/APT pumps

Wide Range of Applications

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

Structural 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 (hot mounted) seal faces
- Seal faces have a large clearance to the shaft
- Wear part cost minimized
- Optimized design for Non-Flow use



Material Configurations

- Rotary Face Rings: Silicon Carbide, Carbon
- Stationary Face Rings: Silicon Carbide
- Elastomer Seals: Viton, EPDM, FFKM
- Springs: HC276
- Metal Parts: SS316, SS329 Duplex, 2205 Super Duplex, Titanium

Operating Parameters

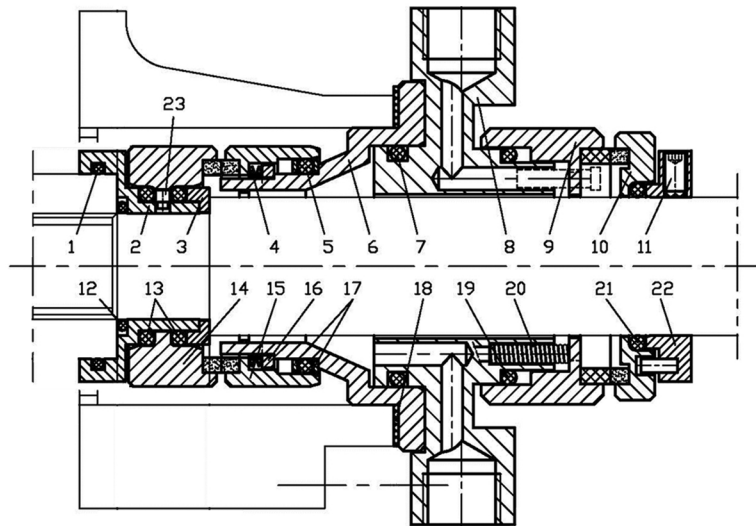
- Operating Temperature: -20 to 140 °C (180 °C with FFKM elastomers)
- Operating Pressure: not higher than 2.5 MPa
- Linear Speed: not higher than 20 m/s
- Stock Content Percentage: not higher than 8%
- Shaft Sizes Available: 30mm, 40mm, 50mm, 60mm, 80mm and 90mm

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

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Item	Designation
1, 5, 7, 12, 13, 19, 21	O-ring
2	Adapter
3	Bandage
4, 20	Spring
6	Shaft Sleeve
8	Cover
9	Stationary Ring (ATM side)
10	Rotary Ring (ATM side)
11	Set Screw
14	Rotary Ring (media side)
15	Stationary Ring (media side)
16	Thrust Ring
17, 18	Gasket
22	Driving Seat
23	Pin

Notes

- Double, quench and single seals have the same wear parts on the product side, reduces stock holding costs
- The dual seal can also be used as single seal (as LP-S-S32-E10) by removing the atmospheric seal parts
- Can be used with pressurized buffer fluid or with quench

Product Variants

- LP-D-S32-D20, dual seal, for Sulzer APP/APT pumps which require double seals
- LP-S-S32-E10, single seal, for Sulzer APP/APT pumps which require single seals
- LP-S-S32-F10, single seal with flush, for Sulzer APP/APT pumps
- LP-Q-S32-E20, single seal with quench, for Sulzer APP/APT pumps
- LP-G-S32-E30, single seal with grease lubrication, for Sulzer APP/APT pumps with no water source conditions