

LP-D-SL

Features

- Integrated seal for Sulzer SL agitators
- Dual seal
- Cartridge unit
- Balanced
- Independent of direction of rotation
- Double pressure balanced
- 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 parts minimized and standardized
- Optimized design for NonFlow use
- Specially designed for agitators

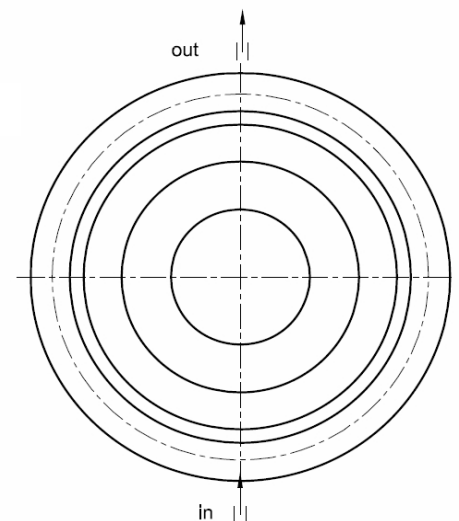
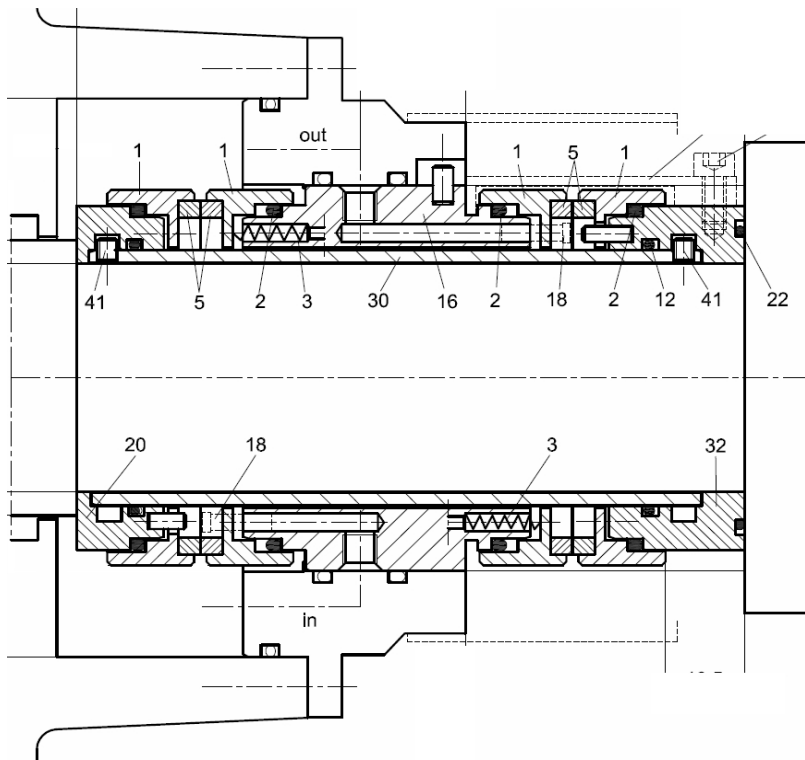
Advantages

- Individually integrated to equipment for best sealing result
- Straightforward and easy installation
- Installation faults avoided with cost effective cartridge
- Static springs on both face sides reduces influence of misalignment
- No damage of the shaft by dynamically loaded O-ring
- Extended service life due to rugged design
- No brittle parts in contact with torque transmission pins
- Seal faces protected by strong steel parts and large radial clearance
- The double and single seals have the same wear parts on product side
- Can be used as single seal by removing the atmospheric seal parts
- The seal can be used with pressurized buffer fluid or with quench
- 30 years of experience in the Pulp&Paper industry

Market leader in Non Flow applications since 1993. Non Flow makes it possible to reduce buffer fluid consumption with over 90%.

It is much easier to keep the seal pressurized and filled with water than to keep it filled and pressurized with buffer fluid in an open system. With 100% NonFlow, no solids reaches the seal with the buffer fluid because there is no transporting flow. This results in longer mean time between service.

With NonFlow seals we recommend the NF supply systems to guarantee optimal operating conditions



LP-D-SL (2)

Recommended applications

- All applications for Sulzer SL/ST agitators
- Clean, abrasive or corrosive liquids as well as stocks of various kind
- Pulp & Paper industry
- Chemical industry specially when the process needs a hot or a cold seal to reduce crystallisation
- Water and waste water technology

Operating range

- Temperature: $t = -20\text{ °C} \dots 180\text{ °C}$ (Check O-Ring resistance)
- Sliding face material combination AQ12
- Pressure: $p_1 = 25\text{ bar}$ $p_3 < 12\text{ bar}$
- Sliding velocity: $v_g = 20\text{ m/s}$
- Sliding face material combination Q12Q12
- Pressure: $p_1 = 25\text{ bar}$ $p_3 < 12\text{ bar}$
- Sliding velocity: $v_g = 10\text{ m/s}$ (33 ft/s)
- Stock content: up to 8%
- NonFlow use:
- Temperature: $t = +5\text{ °C} \dots 100\text{ °C}$
- Pressure: $p_1 = 10\text{ bar}$ $p_3 > p_1$
- Sliding velocity: $v_g < 10\text{ m/s}$
- Not all maximum values simultaneously

Materials

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