

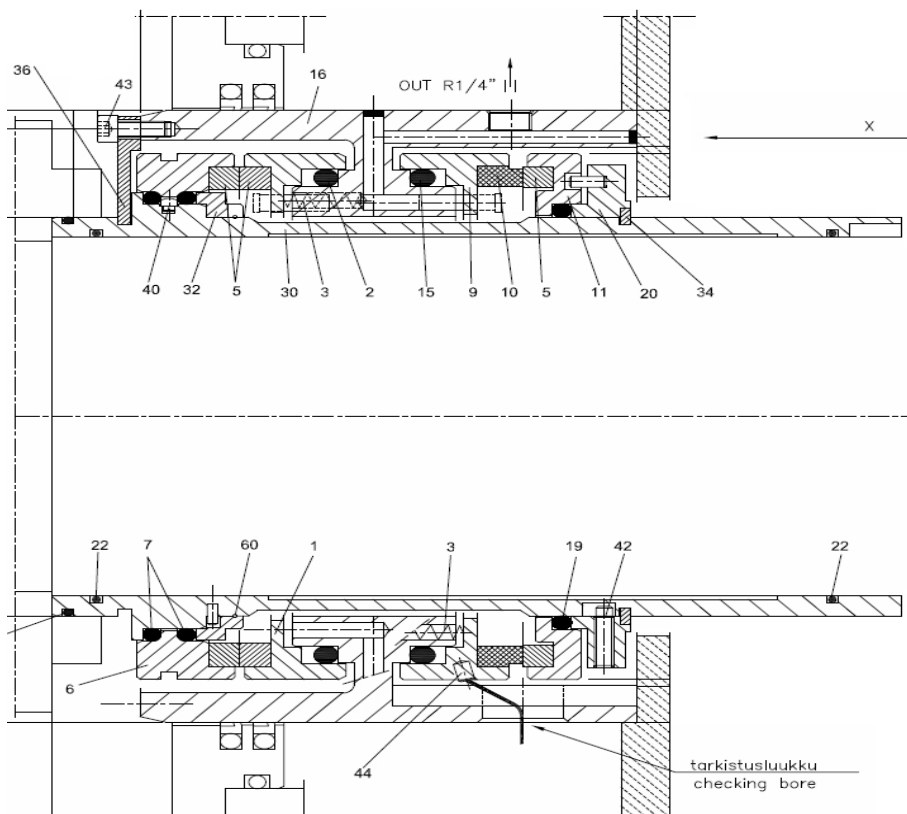
LP-D-RF

Features

- Integrated seal for and Metso conical refiners
- Dual seal
- Cartridge unit
- Balanced
- Independent of direction of rotation
- Double pressure balanced
- Internal barrier fluid circulation
- Static springs on both side faces
- No dynamic O-ring on shaft
- Rugged design
- Shrink fitted seal faces
- Seal faces have a large clearance to the shaft
- Specially designed for conical refiners with big axial movements
- Special construction for vertical use
- Wear parts minimized and standardized
- Optimized design for NonFlow use

Advantages

- Always 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 vibrations and compensate 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 radial gap.
- A dual seal has the same wear parts as for a single seal which reduces stock holding costs
- The seal can be used with pressurized buffer fluid or with quench
- 30 years of experience in the Pulp&Paper industry



Recommended applications

- All Metso conical refiners for the last twenty years in the P&P industry

Operating range

- Temperature: $t = 0\text{ °C} \dots 180\text{ °C}$ (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%

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)