Mechanical seals Ready-fitted seals •LP Seals



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



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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.





Recommended applications

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

Operating range

- •Temperature: t= 0 °C ... 180 °C (Check O-Ring resistance)
- Sliding face material combination AQ12
- •Pressure: p1 = 25 bar p3 < 12 bar
- •Sliding velocity: vg = 20 m/s
- •Sliding face material combination Q12Q12
- •Pressure: p1 = 25 bar p3 <12 bar
- Sliding velocity: vg = 10 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)

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