PP-D Dual Seals



Mechanical Seals For Pumps - Engineered Seals

Product Description

- 1. Dual seal configuration
- 2. Balanced design
- 3. Independent of direction of rotation
- 4. Semi-Cartridge construction
- 5. Double pressure balanced design
- 6. Designed with provision for internal barrier fluid circulation
- 7. No dynamic O-ring on the shaft
- 8. Robust construction with shrink-fitted seal faces
- 9. Seal faces have a large clearance to the shaft
- 10. Static springs on both the sides

Technical Features

- 1. Seals can be operated with pressurized buffer fluid or with quench
- 2. O-rings are dynamically loaded to prevent shaft damage
- 3. Easy and trouble-free installation
- 4. Due to large radial clearance, the damage to the seal faces are avoided, in addition to the seal faces being protected by strong steel parts
- 5. Misalignment during installation and operations is reduced due to the static springs on both the faces
- Dual seal can also be used as a single seal by removing the atmospheric seal parts

Typical Industrial Applications

Pulp and paper industry Chemical industry Clean, abrasive or corrosive liquids Stocks of various kind Applications where crystallization is a problem

Performance Capabilities

Temperature: t = -20 °C ... +140 °C (- 4 °F ... + 284 °F) (180 °C (356 °F) with FFKM elastomers) Pressure: $p_1 ... 25$ bar (363 PSI), p3 Speed = 20 m/s (66 ft/s)

Non-flow operation: Temperature: t =+5 °C ... +100 °C (+41 °F ... +212 °F) Pressure: p₁ max. 10 bar (145 PSI), p3 > p1 Sliding velocity: v_g ... 20m/s (66 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)

Suitable for following equipments

Ahlstar UP A MS21 range of pumps Sulzer A, APP/APT pumps Sulzer SL mixers Metso conical refiners Stock pumps



Item	Description
1	Seal face
5	Seat
13	Sleeve
16	Housing
18	Pin
37	Assembly fixture
2, 12, 15,	O-ring
22, 23, 24, 25	
43	Plug