

Single Dry Mechanical Seal (Bearing Assembly Configuration)

TYPE : SD905

Face Materials :

- Carbon / Ceramic / Silicon Carbide / Tungsten Carbide

Secondary Seals :

- NBR (Nitrile) / FKM (Viton) / EPDM / Aflas / PTFE / TTV / FFKM (Kalrez)

Hardware :

- SS 304 / SS 316 / SS 316L / Duplex / Hastelloy C / Alloy 20

Operating Limits :

- Size:** 20.0 mm to 300.0 mm (0.750" to 12.000")
- Speed:** 500 RPM
- Pressure:** Vacuum ... to 10 bars (145 psi)
- Temperature:** -20°C to +200°C (-4°F +392°F)

Application :

- Mixer
- Blower
- Reactor
- Agitator
- Non-Toxic Media
- Chemical Industry
- Petrochemical Industry
- Pharmaceutical Industry
- Food and Beverage Industry



Single Dry Mechanical Seal

Key Features :

- **Directionally Independent Operation:** Functions effectively regardless of shaft rotation direction, enhancing application versatility.
- Available in
- **Externally Mounted Design:** Facilitates easy inspection, operation, and maintenance without disassembling the process equipment.
- **Optional Bearing Assembly:** Available with or without an integrated bearing to suit specific mechanical load and alignment requirements.
- **Rotary Multi-Spring Mechanism:** Ensures uniform axial load on the sealing faces, promoting stable performance and extended seal life.
- **Cost-Effective with Rapid Delivery:** Offers a practical balance of performance, affordability, and short lead times to meet operational demands.
- **Top and Side Entry Compatibility:** Engineered to accommodate both top and side shaft entry setups, offering broad installation flexibility.
- **Simplified Installation and Maintenance:** Designed for straightforward assembly and servicing, minimizing downtime and reducing maintenance costs.
- **Single Seal Configuration:** Delivers dependable sealing performance in dry-running applications, eliminating the need for complex dual-seal arrangements.
- **Factory Assembled and Tested:** Each unit is pre-assembled and rigorously tested to ensure optimal performance, consistency, and reliability upon installation.
- **No Cooling or Lubrication Required:** Eliminates the need for auxiliary cooling or lubrication systems, reducing complexity and operational overhead.
- **Flexible Construction Options:** Offered in Non-Cartridge, Semi-Cartridge, and Cartridge formats to align with different installation preferences and standards.
- **Balanced and Unbalanced Designs:** Available in both hydraulically balanced and unbalanced configurations to match varying pressure and process conditions.

➤ **DIMENSIONS FOR HIGHER SIZES AVAILABLE ON REQUEST**