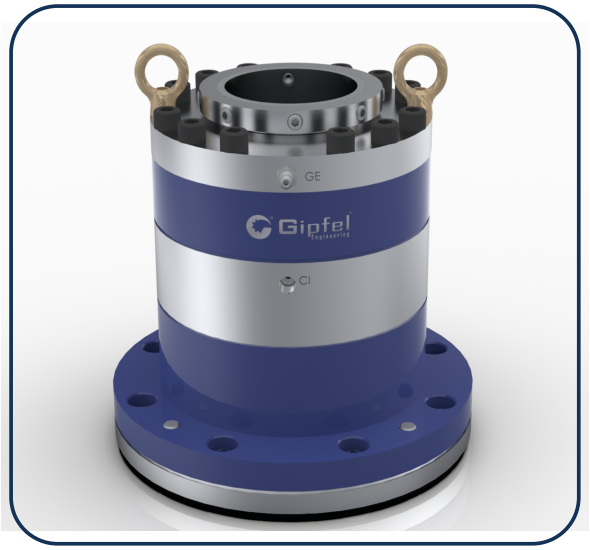
Gipfel Engineering

ISO 9001:2015 CERTIFIED COMPANY

Double Mechanical Seal (Balanced & Unbalanced)
(with Bearing Assembly for Top, Bottom & Side Entry Rotating Equipment)

TYPE : ED945 - ED950



Face Materials :

- Carbon / Silicon Carbide / Tungsten Carbide

Secondary Seals :

- NBR / FKM / EPDM / Aflas® / PTFE / FFKM TTV / FEP-encapsulated FKM

Hardware :

- SS 304 / SS 316 / SS 316L / Duplex SS / Hastelloy® C-276 / Alloy 20 / Titanium

Operating Limits :

Size : 20.0 mm to 300.0 mm (0.750" to 12.000")
Speed : Up to 1400 rpm
Pressure : Vacuum to 250 bar (3,625 psi)
Temperature : -40 °C to +250 °C (-40 °F to +482 °F)

Application :

- Hydrocarbon
- Paint Industry
- Refining Technology
- Foodstuff Processing
- Bulk Drugs Processing
- Viscous & Sticky Media
- Petrochemical Industry
- Biochemistry Processing
- Pulp and Paper Industry
- Pharmaceutical Industry
- Chemical blending tanks
- Polymerization Processing
- Electron Epoxy Processing
- Plastic & Chemical Industry
- Food-grade and hygienic mixers
- Polymer and solvent mixing vessels
- Biotech and pharmaceutical process reactors
- Hazardous area classified mixing systems (ATEX/IECEx)
- Glass-lined reactor agitators (top, bottom, or side entry)
- All type of Top, Side & Bottom Entry Rotating Equipment Etc.

Meet: Gala No. 7, KMC Compound, Behind Hotel Metro Palace, Behram Baug Road, Jogeshwari (West), Mumbai - 400 102. Maharashtra, India.
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Key Advantages :

- **Vacuum & Pressure Versatility:** Performs reliably under full vacuum, elevated pressures, and fluctuating operating conditions.
- **Cartridge-Type Assembly:** Pre-set and pre-tested for plug-and-play installation; reduces setup time and ensures alignment accuracy.
- **Reverse Pressure Capability (Inboard):** Engineered to maintain sealing integrity in systems with fluctuating or reverse pressure conditions.
- **Explosion-Safe Design Option:** Engineered to meet requirements for use in ATEX-rated zones (subject to configuration and certification).
- **Optional Metal-Free Wetted Parts:** Prevents corrosion and media contamination; ideal for high-purity or chemically aggressive applications.
- **Dual (Double) Seal Arrangement:** Pressurized barrier system prevents leakage and protects product integrity in hazardous and sensitive processes.
- **Multiple Seal Arrangements Available:** Configurable in Back-to-Back, Face-to-Face, or Tandem layouts to suit process-specific sealing strategies.
- **Top, Bottom & Side Entry Compatibility:** Versatile design suitable for various installation orientations in mixing, blending, and agitation systems.
- **Externally Mounted Design:** Enables easy access for inspection, adjustment, or seal replacement without disturbing critical equipment components.
- **Liquid-Lubricated and Cooling System Ready:** Optimized for high-duty or thermally sensitive applications with integrated lubrication and cooling options.
- **Independent of Shaft Rotation Direction:** Suitable for both clockwise and counter-clockwise rotating shafts, supporting bi-directional operational flexibility.
- **Balanced & Unbalanced Designs:** Available in both configurations to meet diverse process demands including pressure variations and fluid characteristics.
- **Customizable Configurations:** Offered in non-standard sizes, materials, and special designs upon request to meet unique operational or compliance requirements.
- **Rotary Multi-Spring Configuration:** Ensures uniform face loading, accommodates shaft deflection, and maintains sealing efficiency under dynamic conditions.
- **Factory Assembled & Pressure Tested:** Delivered as a complete, pre-tested unit to ensure fast installation, reliable sealing performance, and minimal startup issues.
- **Integrated Bearing Assembly:** Supports shaft stability in overhung and vertical configurations, especially important for bottom-entry or cantilever-mounted shafts.
- **Material Customization:** Broad choice of wetted part materials including high-performance alloys, carbon, silicon carbide, and PTFE-based options for aggressive media.
- **Compatible with Glass-Lined Reactors:** Designed with chemically compatible, non-damaging materials to protect glass-lined surfaces in corrosive or sensitive environments.

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

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