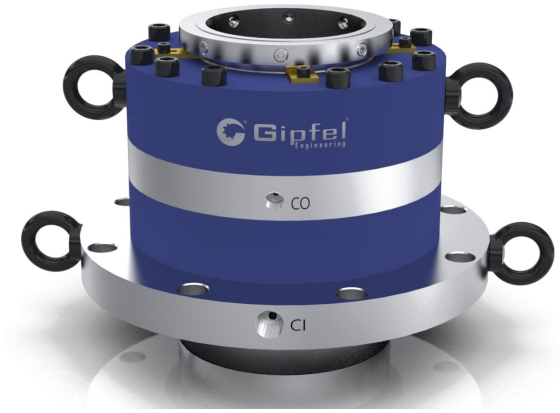
Gipfel Engineering

ISO 9001-2015 CERTIFIED COMPANY

High-Speed Double Mechanical Seal

(Integrated Bearing for Top & Side Entry Homogenizers)

TYPE : ED960



Design :

- Double cartridge mechanical seal with integrated bearing

Seal Faces :

- **Inboard:** Silicon Carbide / Silicon Carbide
- **Outboard:** Carbon (resin-impregnated) / Silicon Carbide

Secondary Seals :

- FDA-compliant EPDM / FKM (Viton) / FFKM

Hardware :

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

CI / CO Ports :

- API Plan 53A / API Plan 52 / Cooling water

Operating Limits :

Size :	20.0 mm to 300.0 mm (0.787" to 11.811")
Speed :	Up to 3,600 rpm, max. 20 m/s (3,940 fpm) face sliding velocity
Pressure :	Full vacuum to 16 bar (232 psi) vessel pressure
Temperature :	-20 °C to +150 °C (-4 °F to +302 °F); up to +200 °C (+392 °F) with cooling

Application :

- High-Speed Homogenizers (Top & Side Entry)
- High-Shear Mixers & Emulsifiers
- Vacuum Mixing & Processing Vessels
- Dispersers & Dissolvers
- Dairy & Food Processing
- Pharmaceutical & Bulk Drug Processing
- Cosmetics & Personal Care
- Paints, Inks & Resins
- Chemical Processing

Features :

- **Integrated Bearing** absorbs shaft runout and deflection at high speed, keeping both seal faces aligned.
- **Double Seal Arrangement** isolates the product from atmosphere for sterile, hazardous or volatile duties.
- **FDA-Compliant Elastomers** for food, dairy, cosmetic and pharmaceutical processing.
- **Cartridge Construction** factory-assembled and pre-set with setting clips for repeatable installation.
- **Flexible Support System:** CI / CO ports for API Plan 53A, API Plan 52 or cooling water.

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