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, antimony-free) / Silicon Carbide

Secondary Seals (FDA-Compliant) :

- EPDM / FKM (Viton) / FFKM to FDA 21 CFR 177.2600; USP Class VI on request

Hardware :

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

Bearing :

- Deep-groove ball bearing, grease-lubricated, re-greasable, lip-seal protected

CI / CO Ports :

- API Plan 53A – pressurised barrier fluid
- API Plan 52 – unpressurised buffer fluid
- Cooling water circulation

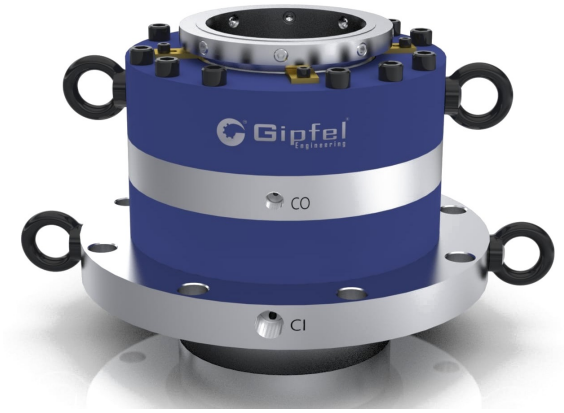
Operating Limits :

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

Operating limits are not simultaneous; final selection depends on size, speed, pressure, temperature and media.
API Plan 53A: barrier pressure min. 1.4 bar (20 psi) above vessel pressure.

Meet: Gala No. 7, KMC Compound, Behind Hotel Metro Palace, Behram Baug Road, Jogeshwari (West), Mumbai - 400 102. Maharashtra, India.
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(Integrated Bearing for Top & Side Entry Homogenizers)

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.
- **SiC / SiC Inboard Faces** for hard, abrasive or crystallising product films.
- **Carbon / SiC Outboard Faces** run on clean barrier or buffer fluid with low heat generation.
- **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.
- **Re-greasable Bearing** via grease nipple; lip seals protect the bearing from contamination.
- **Lifting Eye Bolts** for safe handling during installation on top-entry vessels.

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