Gipfel Engineering

ISO 9001-2015 CERTIFIED COMPANY

# Split Mechanical Seal

## TYPE : SPT770

**Face Materials :**

- Carbon / Silicon Carbide / Tungsten Carbide

**Secondry Seals :**

- Nitrile (NBR) / Viton (FKM) / EPDM

**Hardware :**

- SS 316 / Hastelloy C

**Operating Limits :**

**Size :** 35.0 mm to 300.0 mm (1.375" to 12.000")

**Speed :** 3000 rpm

**Pressure :** 10 bars (145 psi)

**Temperature :** -40 °C to +150 °C (-40 °F +302 °F)

**Application :**

- Surface vessel
- Pulp & paper industry
- Food process industry
- Power generation plant
- Waste water treatment plant
- Pyre stock to sludge & river water turbine,
- Agitator & mixer condensate mining &
- other demanding industries etc.

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## Key Features :

- **Hydraulically Balanced Seal Faces:** Reduces axial load on seal faces, minimizes wear, and extends seal life.
- **Single Seal Configuration:** Compact and efficient sealing solution for a wide range of industrial applications.
- **Semi-Cartridge Design:** Offers easy handling and installation while maintaining alignment and sealing integrity.
- **Independent of Shaft Rotation Direction:** Functions efficiently in both clockwise and counterclockwise shaft rotations.
- **Quick Installation & Easy Removal:** No need to remove motors, couplings, or bearings—saving both time and labour.
- **Precision Machining & Finish:** Guarantees a perfect seal fit and finish for optimal operation and leak prevention.
- **Field Repairable:** Designed for convenient in-field maintenance and replacement of components, reducing service costs.
- **High Mechanical Strength:** Constructed from durable materials for reliable performance in high-load environments.
- **Fully Split Components:** Enables installation and removal without disassembling the equipment, significantly reducing downtime.
- **Designed for Large Equipment:** Engineered to handle the operating challenges of large-scale pumps, agitators, and mixers.
- **Stationary Multiple Spring Arrangement:** Provides uniform pressure distribution and accommodates shaft misalignment or deflection.
- **Finger Plate Spring Design:** Ensures consistent axial force across the sealing faces, improving face contact, reliability, and sealing performance.

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

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