

# Rotosolver® and Rotostat®

Specifications for the Pharmaceutical & Biotech Industries

## Drive Options

- Drive frame assemblies are available in white epoxy coated steel or 316 SS with all welds blended and 30 Ra or better finish as standard.

## Motor Options

- 304 stainless steel electric motors: a wide range is available, options within this family of motors:
  - Inverter duty up to 1000:1 turndown
  - Body mounted, NEMA 4, digital, direct shaft speed readout, or
  - NEMA 7/9 internal proximity sensor for remote direct shaft speed readout feed
  - Up to Class 1, Div 2 ratings
  - Thermal protection through built-in overloads for added safety
  - TECAC (totally enclosed, compressed air cooled) for use in class 10,000 cleanrooms
  - 1 Phase & 3 Phase motors through 20 HP
- White epoxy coated, wash down duty and explosion proof motors

## RPM Readouts

Direct shaft speed readout is available. This digital readout (dro) provides accurate agitator shaft speed measurement. There are several options:

- With the pharmaceutical grade motor, an internal proximity sensor can be installed to read actual motor shaft speed with DRO either on the unit or remotely mounted.
- On other motors, including explosion proof, an intrinsically safe, wash down duty proximity sensor can be installed to provide direct speed readout. This would require a remote DRO.

**GMP VALIDATION  
DOCUMENTATION PACKAGES TO  
SUIT YOUR REQUIREMENTS**



## Performance

### Rotosolver®

- 1 - 100 HP with Tip Speeds to 70 FPS
- Pumping Rates to 15,000 GPM
- Tank Volumes up to 6,000 gallons
- m Infinite Viscosity Range

### Rotostat®

- 1 - 100 HP with Tip Speeds to 70 FPS
- Pumping Rates to 24,000 GPM
- Tank Volumes up to 10,000 gallons
- Infinite Viscosity Range

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## Controls

- Various Inverters
  - Depending on requirements, stand-alone inverters can be supplied from Baldor, Reliance, Allen Bradley, and TB Woods
- Complete Packages
  - Standard NEMA 4X (SS / washdown) packages with face mount keypads, direct shaft speed digital readout and E-Stop buttons
  - NEMA 7/9 Explosion proof packages available with either remote mount or in rated area mount units. For remote mount units, an in rated area operator's station can be provided.

## Mechanical Seals

A wide variety of mechanical seals are available. They include:

- Simple, FDA Viton lip seals for full vacuum or CIP applications
- Single mechanical, dry running seals for up to 400 RPM
- Double mechanical, flush type seals for up to 4,200 RPM
- Double mechanical, inert gas (instrument air or nitrogen) charged, non-contacting, non-shedding seals for up to 4,200 RPM. Gas regulation controls are also available.
- All mechanical seals are available with sanitary glands and steam purge options.

## In-Tank Options

- Sanitary, self-draining in-tank shaft couplings
- 316L SS as standard, other material options available, polishes to 10 Ra, electropolish and passivation

## Mounting Options

- Stainless steel fixed, clamp and mobile
- Within the fixed mount family, Tri-Clamp®, I-Line, ANSI, flange and angle riser designs

Tri-Clamp® is a registered trademark of Tri-Clover/Alfa Laval

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