

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

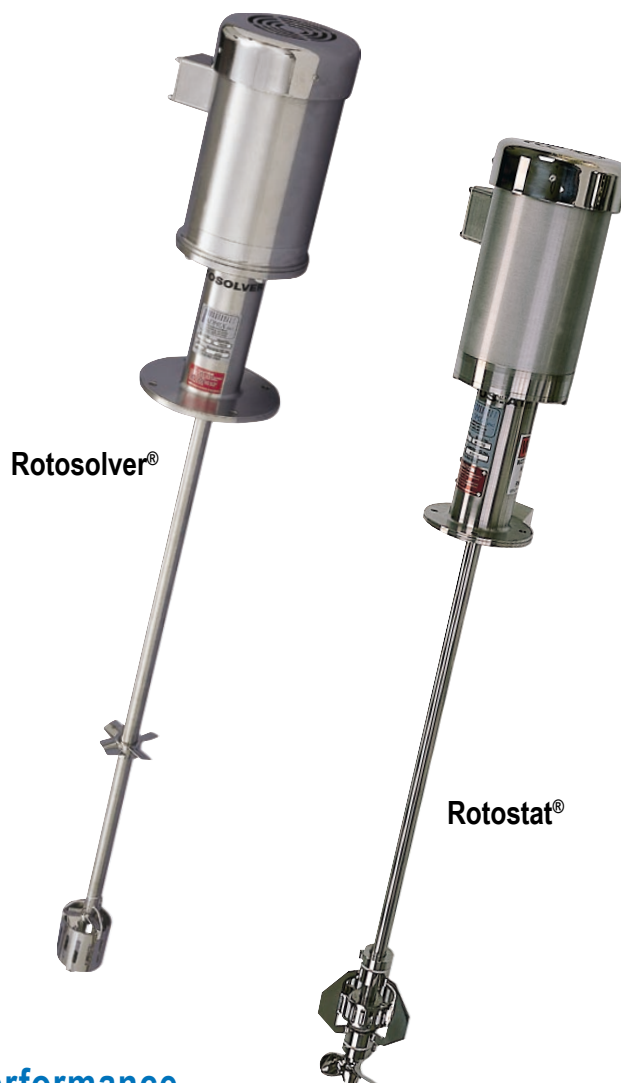
- ❖ 304 stainless steel electric motors: a wide range is available, options within this family of motors:
 - Inverter duty up to 1000:1 turndown
 - Body mounted, NEMA 4, digital, direct shaft speed readout, or
 - NEMA 7/9 internal proximity sensor for remote direct shaft speed readout feed
 - Up to Class 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, washdown duty and explosion proof motors

RPM Readout

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, washdown 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
- 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
- ✦ 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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