Zero Emissions | Field Repairable | Standardized Motors







Table of Sizes and Specifications

| MODEL Pump Size | ANSI-B73.1 Frame Size | RPM 50/60 Hz | SUCTION FLANGE 150#, 300#, 600# | DISCHARGE FLANGE 150#, 300#, 600# | IMPELLER INCHES Full Size |
|--------------------|--------------------------|-----------------|------------------------------------|--------------------------------------|------------------------------|
| 1.5x1x8 | AA | 1500/1800 | 1.5" or 2" | 1" | 8.25" |
| 1.5x1x8 | AA | 3000/3600 | 1.5" or 2" | 1" | 8.25" |
| 3x2x9 | A60 | 1500/1800 | 3" | 2" | 9.25" |
| 3x2x9 | A60 | 3000/3600 | 3" | 2" | 9.25" |
| | | | | | |



Seal-Less Mag-Drive Pumps From Stock or Built-to-Spec™ Ammonia & CO2
Recirculation
Process Pumps

LOW NPSH - LOW HEAT LOAD

Our company goals are to provide the solutions that protect our surroundings, raise the environmental awareness, and promote the growth of the community.

Services

API & CPI Processes

- Chemical Processing
- Petrochemicals
- Petroleum By-Products
- Hydrocarbons
- Liquified Gases

Refrigeration Systems

- Ammonia, CO2
- Fluorocarbon Refrigerants

Thermal Transfer Systems

- High-temp Synthetic Oils
- Low-temp Synthetic Oils
- Super Heated Water



WMCA Conditions and Specifications

| Max. Flow | 350 GPM |
|---------------------------------|--------------------------------|
| Max. Head | 300 Feet |
| Max. Allowable Working Pressure | 40 BAR/600 PSI Standard |
| Max. Allowable Working Pressure | 100 BAR/1500 PSI Built-to-Spec |
| Specific Gravity | 0.15 - 2.0 |
| Max. Viscosity 3500/1750 RPM | 150-200/300-400 cP |
| Liquid Temputure Range | -139 °F to +600 °F |
| Pump Material | 304-SS, Hastelloy C, Duplex-SS |
| Motor Horsepower Range | 2-30 HP |

Performance Guarantee for Approved Applications





High Pressure | Low NPSH | Meets ANSI-B73.1

WARRENDER SEAL-LESS MAG-DRIVE PUMPS

Warrender mag-drive seal-less pumps meet EPA zero emissions regulations with versatile magnetic coupling technology. Minimal heat loads, field serviceability and lower installation costs are significant process advantages. Solve your most challenging pumping problems with reliable and cost effective solutions.

Zero Emissions and Maximum Safety

Benefit from a process free of leakage, contamination or toxic releases while avoiding constant monitoring and potential environmental fines. Eliminate all toxic and dangerous chemical releases including volatile and toxic liquids that can react with atmospheric contact.

Advanced Technology and the Highest Quality for Long Pump Life

WARRENDER pump designs are built to the highest quality standards to protect your process, preventing costly maintenance and lost production time.

- Robust, high thickness pump casings
- High efficiency impellers with low NPSH requirements
- High strength, rare earth magnetic couplings suitable for extreme temperatures
- Heavy duty rear casings
- Rugged internal bearing system withstands process upsets

Performance to the Extreme

- Flows from 5 to 350 GPM
- Pressures up to 1500 PSIG
- Heads to 300 feet
- Temperatures from -139°F to +600°F
- · Pump liquefied gases or liquids with low NPSH
- Compatible with VFD control systems
- NPSH down to 1 foot

Series WMCA - Process Centrifugal - Low NPSH Seal-Less Centrifugal

Series WMCA-LN ANSI mag-drive centrifugal pumps are engineered for long-life, zero emissions pumping in the most arduous process conditions. Low heat induction avoids costly down-time and repairs due to flashing, in chemical, hydrocarbon, ammonia, CO2, and fluorocarbon processes.



WMCA-LN Features

- Low heat load avoids flashing
- Seal-less design free of mechanical seal maintenance
- · Magnetic coupling design for process & inventory flexibility
- Standard NEMA motors meet UL and EXP requirements

WMCA Performance Range

- Flows from 5 to 350 GPM (1-80 m3/h)
- Heads to 1000 feet (227 m)
- System Pressures to 1,450 psig (100 bar)
- Temperatures from -139 to +600°F (-95 to +315°C)



