



WARRENDER, LTD.
Seal-less Mag-Drive Pumps
From Stock or Built-to-Spec™

**SEAL-LESS
MAG-DRIVE
PUMPS**

**Providing environmentally
safe seal-less magnetic
pumps of the highest quality
for over 30 years**

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

Three Designs Provide Complete Hydraulic Coverage

- High head turbine for OEM and transfer systems
- High flow centrifugal for compressor circulation systems
- Low flow rotary vane for injection systems

Typical Applications

- Liquid Ammonia, CO2 and Fluorocarbon Refrigerants
- All EPA monitored chemicals
- Dangerous, toxic, noxious and carcinogenic liquids
- Solvents, hydrocarbons, pyrophorics and other volatile liquids
- Heat transfer fluids (up to 650° F, 840° F w/ heat exchanger).
- Hot / super heated water
- Liquefied gases
- Cryogenic fluids (down to -150°C)
- High pressure circulation systems
- Pressurizing mechanical seal pots
- Sampling, metering or chemical injection systems



***Seal-less
Zero Emissions
Low Heat Load
No Flashing***

WARRENDER SEAL-LESS MAG-DRIVE PUMPS

OEM & PROCESS PUMPS *From Stock or Built-to-Spec™*

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 explosive and volatile liquids that can react with atmospheric contact.

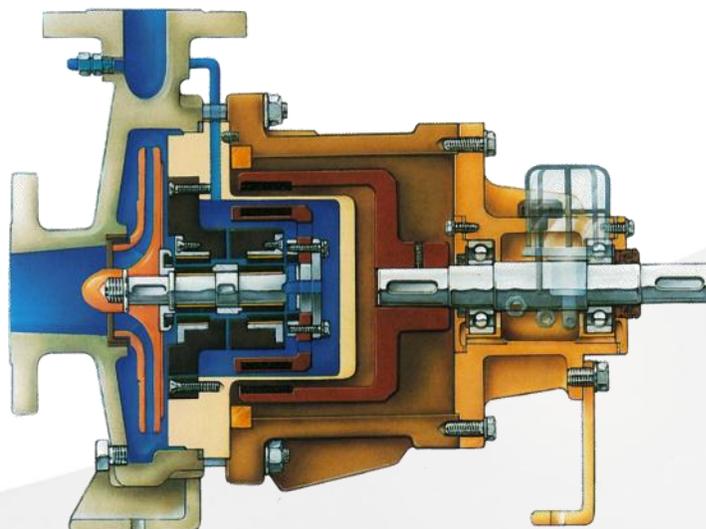
Advanced Technology and the Highest Quality for Long Pump Life

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 in single or double walled non-welded design
- Rugged internal bearing system withstands process upsets

Performances to the Extreme

- Flows from 0.1 to 2500 gpm
- Pressures up to 1,500 psig (MAWP)
- Heads to 1,500 feet
- Temperatures from -238°F to +600° F
- Pump liquefied gases or liquids with low NPSH
- Compatible with VFD control systems



Centrifugal Mag-Drive Pump - Cross-Section

WMCA ISO 2858

Mag-Drive Centrifugal



Performance Range

- Flows up to 1000 gpm (**225 m³/h**)
- Heads up 700 feet (**213 m**)
- System Pressures to 350 psig (**25 bar**) MAWP
- Temperatures from -150 to 600° F (**-101 to 315°C**)

150#
ANSI

WMTA - HP

Billet Turbine Mag-Drive



Performance Range

- Flows from 1.0 - 45 gpm (**0.5 - 10 m³/h**)
- Heads to 700 feet (**213 m**)
- System Pressures to 2200 psig (**150 bar**) MAWP
- Temperatures from -148 to 600°F (**-100 to 316°C**)

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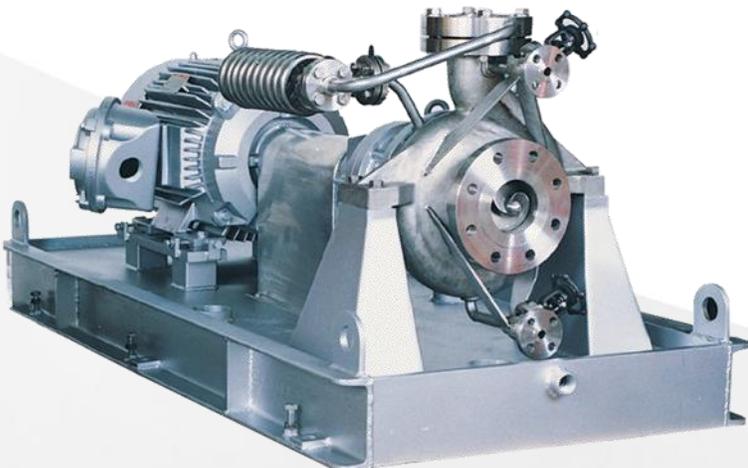
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WMCA API 685

Mag-Drive Centerline Centrifugal



Performance Range

- Flows from 8 to 2000 gpm (**454 m³/h**)
- Heads to 720 feet (**220 m**)
- System Pressures to 1500 psig (**100 bar**) MAWP
- Temperatures from -184 to 600°F (**-120 to 315°C**)

300#
ANSI

WMCA - HP

Billet Centrifugal Mag-Drive



Performance Range

- Flows up to 500 gpm (**115 m³/h**)
- Heads up 300 feet (**90 m**)
- System Pressures to 2200 psig (**150 bar**) MAWP
- Temperatures from -150 to 600°F (**-101 to 315°C**)

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