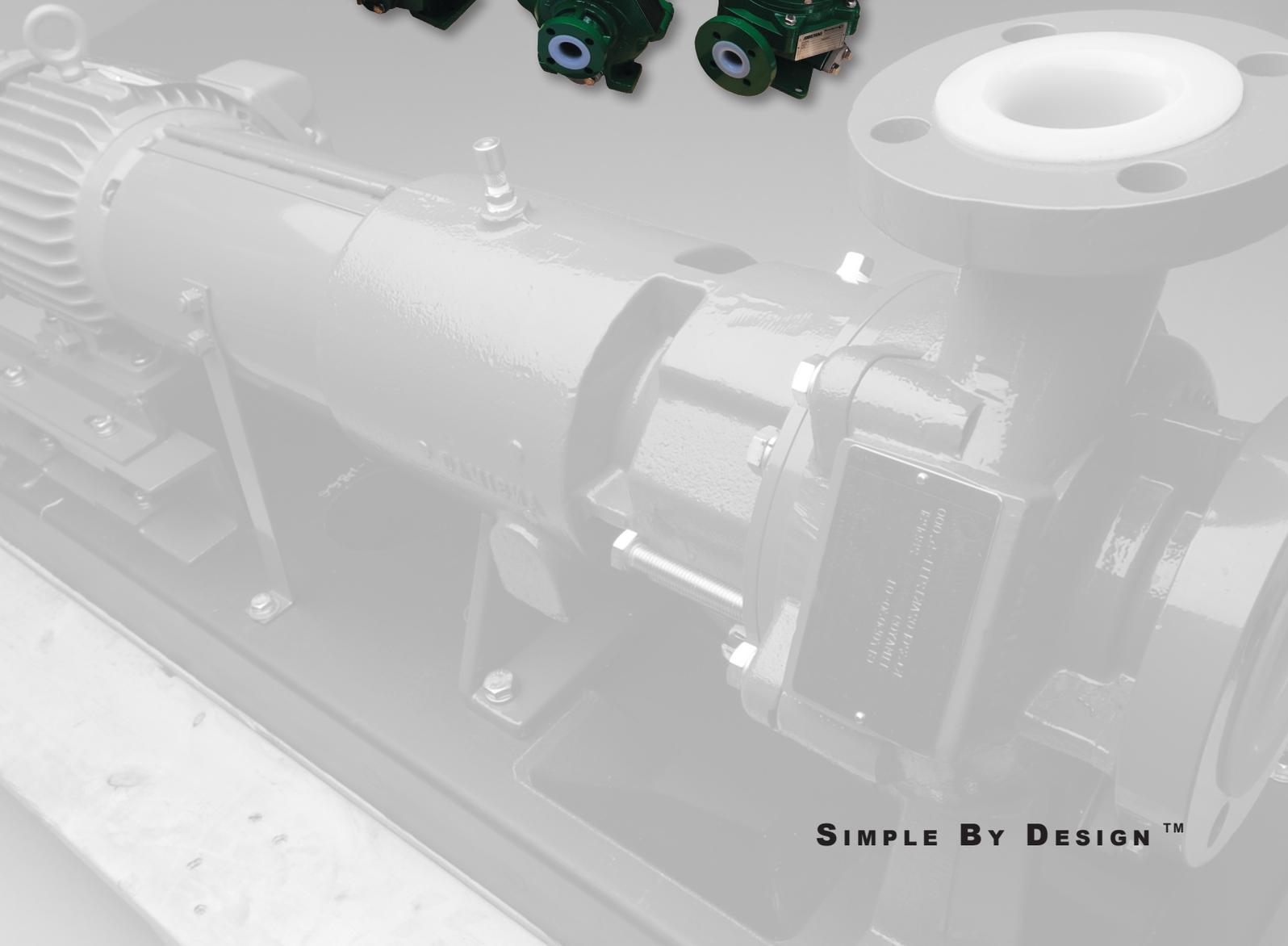




Sundyne *ANSIMAG*
Non-Metallic, Magnetic Drive
Sealless Pumps



SIMPLE BY DESIGN™



*Reliable,
Safe, Simple,
Leak-proof*

Sundyne Presents Ansimag

Sundyne Ansimag sealless magnetic drive non-metallic pumps are simple by design, delivering world class performance in a remarkably compact footprint. With no seals or mechanical couplings to leak or fail, these pumps are the safest choice for those looking to protect personnel and the environment. Additionally, Sundyne sealless pumps feature fewer wetted parts than competitive products and a powder coat finish to prevent corrosion, delivering enhanced durability, optimal reliability and lower through-life costs over traditional sealed pumps.

Built to meet exacting ASME / ANSI B73.3 and ISO 2858 chemical process pump standards, Sundyne sealless pumps are the easy upgrade option for fluid handling professionals interested in replacing their standard mechanically sealed pumps. Backed by over 30 years of continuous improvement on our original standard dimensional designs, Sundyne sealless magnetic drive non-metallic pumps are the ideal choice for applications involving highly volatile or valuable materials in the chemical, petrochemical and water industries.

Sundyne Sealless Pumps

What makes Sundyne sealless pumps a better, more reliable, choice for your process? It's simple:

No Leaky Mechanical Seals

- Ensures the safety of your employees
- Provides a clean working environment
- Requires no mechanical seal support systems
- Cost-effective alternative to mechanically sealed pumps

Zero Emissions

- Environmentally safe and responsible
- Compliant with the EPA regulations

Cost Efficient Designs

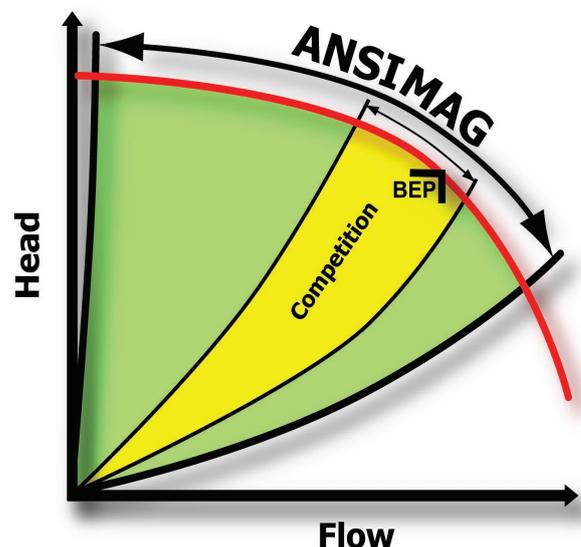
- Operating efficiencies similar to mechanically sealed pumps
- Built to international standards for low initial installation cost

Application Experience and Product Support

- Assures proper pump selection for greater operating reliability
- Comprehensive PlusONE product support from Sundyne and our global network of Authorized Service Centers, giving you peace of mind with UPTIME ASSURANCE™

World Class Engineering and Manufacturing

- Quality that delivers highly reliable products
- Most extensive line of sealless pumps available
- ISO 9001 certified



Unlike competitive pump designs, the Ansimag stationary shaft design tolerates greater changes in operating system conditions.

Ansimag K Series - Simple By Design™

Simple By Design is more than a slogan for us. It's what we practice every day. As the pioneer in non-metallic magnetic drive pumps, we continue to lead the way in providing the most advanced, most reliable sealless pumps available.

Simplicity = Quick, Easy Maintenance

- Quick Change Cartridge with one rotating assembly allows easy replacement of pump internals.

Simplicity = Durable, System Tolerant Design

- Stationary Shaft supported at both ends increases reliability by eliminating deflection associated with ever changing system conditions.

Simplicity = Reliability

- Fewer parts means fewer problems

Optional Configurations for Optimum Application Flexibility



Self-Priming Pump

Features and Benefits

- Large priming chamber and solid volute for maximum priming lift
- Solid check valve for reduced back flow velocity and accelerated priming speed
- Built in 1/2" NPT thermal plug for additional pump protection monitoring
- Internal wear parts interchangeable with Ansimag K+ pumps for minimal inventory requirements
- Optional gooseneck for maintaining prime during intermittent operation

Specifications

- Flow: to 300 GPM (68 m³/h)
- Head: to 150 feet (45.7 m)
- Temperature: -20°F to 250°F (-30°C to 121°C)
- Pressures: to 285 psi (19.3 bar)
- Suction Lift: to 20 feet (6.5 m)



Vertical In-Line Pump

Features and Benefits

- Meets ANSI B73.2 dimensional standards for easy, economical installation
- Internal wear parts interchangeable with Ansimag K+ pumps for minimal inventory requirements

Specifications

- Flow: to 300 GPM (68 m³/h)
- Head: to 325 feet (99 m)
- Temperature: -20°F to 250°F (-30°C to 121°C)
- Pressures: to 285 psi (19.3 bar)



Ansimag pumps have the fewest wear parts of any magnetic drive pump on the market today.

SIMPLE BY DESIGN™

(Model K-Plus Shown)

Impeller

- ▶ Locking mechanism permits impeller to be used with multiple magnet drive sizes for maximum parts interchangeability.
- ▶ Fully enclosed design minimizes axial thrust over wide operating range.

Inner Magnet Drive

- ▶ Advance molding process fully encapsulates magnets, eliminating all plastic welding that often leads to chemical attack.
- ▶ Locking mechanism permits magnet drive to be used with multiple impeller sizes for maximum parts interchangeability.



- ▶ Fully supported, oversized shaft eliminates deflection for maximum durability.
- ▶ Patented groove enables unexpected particles to pass through the pump without disturbing flow or damaging the bushings.
- ▶ Solid, non-rotating design eliminates need for internal fasteners or o-rings.



Large traditional epoxy coating chips easily upon impact.



Our powder coating process is more resilient, extending the life cycle of the pump.

Rugged Reliability, Inside and Out

A standard feature on our external metallic housings, powder coat paint protects Sundyne sealless pumps from the rigors of handling corrosives and caustics. Up to 400% more impact resistant than epoxy coatings, powder coat paint significantly reduces chipping and scratching that can lead to corrosion.



Housing

Outer Magnet Drive

- ▶ Neodymium Iron Boron magnets for hard-start, synchronous operation.
- ▶ Magnets are fully encapsulated for protection against corrosion and physical damage.

Rear Casing

- ▶ Kevlar reinforced for resistance to damaging effects of water hammer.
- ▶ Zero Loss design provides for maximum efficiency.

Materials of Construction

- **Casing**
 - ETFE Lined Ductile Iron
- **Impeller**
 - Carbon Fiber Reinforced ETFE
- **Inner Magnet Drive**
 - Carbon Fiber Reinforced ETFE / Neodymium Iron Boron
- **Shaft**
 - Silicon Carbide
- **Bushing**
 - Silicon Carbide
- **Shaft Support**
 - Reinforced ETFE / Silicon Carbide
- **Mouth Ring**
 - Standard: Carbon Fiber Reinforced PTFE
 - Optional: Silicon Carbide
- **O-Ring**
 - Standard: Viton
 - Optional: EPDM, PTFE Encapsulated Viton
- **Rear Casing**
 - Carbon Fiber Reinforced ETFE and Kevlar Reinforced Vinyl Ester
- **Outer Magnet Drive**
 - Ductile Iron / Neodymium Iron Boron
- **Rear Casing Support**
 - Powder Coated Ductile Iron
- **Housing**
 - Powder Coated Ductile Iron

Options

- PFA Construction (in select sizes) for maximum corrosion resistance
- Frame Mounted Pumps for direct sealed pump replacement
- ANSI / ASME B16.5 Class 300 flanges for higher operating pressure capability
- ISO 2858 and JIS B8313 dimensional pumps for worldwide installation capability
- 316 Stainless Steel Casings (in select sizes) for cryogenic applications to -120°F

Typical Industries and Applications

- Chemical Processing
 - Transfer
 - Unloading
 - Bulk Storage
- Hydrocarbon Processing/Refining
 - Sour Water
 - Neutralization
 - Boiler House
- General Industrial
 - Steel Finishing, Pickling, Etching
 - Electroplating
 - High Purity Processes
 - Filtration
- Municipal
 - Wastewater / Wastechemical Treatment
 - Scrubber Systems
- Mining
 - Leaching
- BioFuels
 - Distillation
 - Transesterification
 - Neutralization
- Pulp & Paper
 - Bleaching
 - Waste Treatment
- Pharmaceutical



Industrial Leadership

Engineering expertise delivering complete UPTIME ASSURANCE™

Experience and Reliability

Experience you can count on to handle the toughest applications



Typical Services

- Acid
 - Acetic
 - Chlorosulphonic
 - Chromic
 - Hydrochloric
 - Hydrofluoric
 - Nitric
 - Oleum
 - Phosphoric
 - Sulfuric
- Acetone
- Aluminum Chloride
- Ammonia
- Benzene
- Caustic Soda
- Bleach Solution
- Ferric Chloride
- Ferrous Chloride
- Hydrogen Peroxide
- Methanol
- Methyl Ethyl Ketone
- Sodium Hydroxide
- Sodium Hypochlorite
- Sodium Sulfate
- Sour Water



COMPRESSORS

PUMPS

GENUINE PARTS

SERVICE

**Contact your
local distributor
TODAY!**

To locate the global representative, distributor
or authorized service center nearest you, or
for more information, please visit:

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Ansimag Family Brochure
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**RELIABILITY
REALIZED.**