

ANSIMAG[®]

Simple by Design™



SELF-PRIMING • MAG-DRIVE
CENTRIFUGAL PUMPS

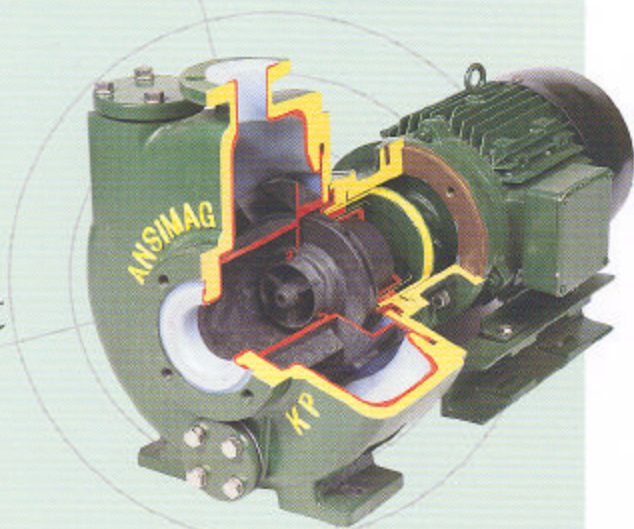


Sundyne 
CORPORATION



SELF-PRIMING • MAG-DRIVE CENTRIFUGAL PUMPS

Unparalleled Performance With Difficult Chemical Transfers.



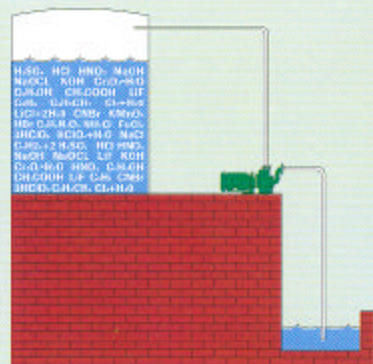
Developed to meet rising demand in the chemical handling industries for heavy-duty corrosive applications, the KP model is particularly effective in tank car/rail loading systems and waste chemical sumps. The internals are constructed of fluoropolymers and resist virtually every known chemical on the inside while rigid castings support heavy pipe loads on the outside.

Sealless, Mag-Drive Coupling.

The magnetically coupled design provides sealless operation and completely eliminates emissions of corrosive liquids. The superior strength of the rare earth magnets provides for no-slip performance. A non-metallic rear casing eliminates the generation of eddy current heat resulting in a fast, safe and efficient priming cycle.

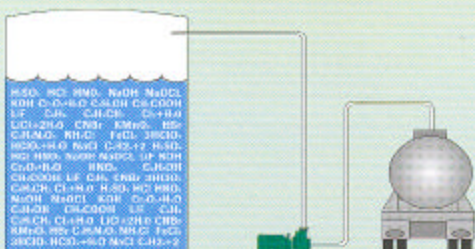
“When it comes to corrosion resistant, emission-free pumping, ANSIMAG makes the choice simple.”

Sump Application



Consult your ANSIMAG application engineer for appropriate piping systems on specific applications.

Tank Car Chemical Transfer



Mouth Ring

Removable for quick and easy field replacement. The hydropad design allows the pumping of almost any heat sensitive liquid. Available in CFR/PTFE or SiC.

Shaft Support/ Thrust Ring

One-piece construction is removable without special tools. The thrust ring is SiC and the shaft support is CFR/ETFE.

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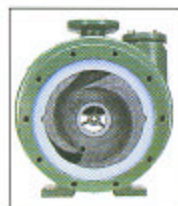
Thermal Plug

Built-in 1/2" NPT thermowell for applications that require long priming times.

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Casing

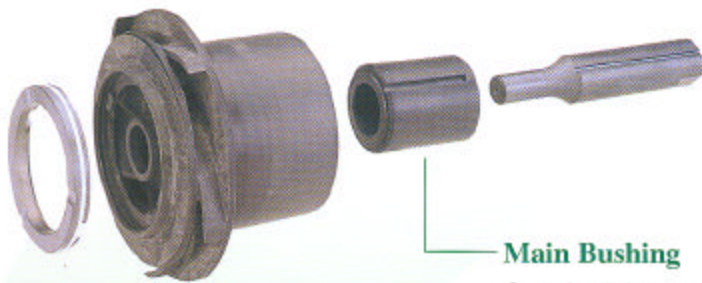
The top centerline discharge casing to handle heavy pipe loads. The 1 and maximum priming lift. The s liner is used for maximum corros



NOTE:

- CFR- Carbon Fiber Reinforced
- EPDM- Polymer of Ethylene and Propylene
- ETFE- Ethylene-Tetra-Flouro-Ethlene Fluoropolymer
- FKM- Fluorocarbon Rubber

- GFR- Glass Fiber Reinforced
- PFA- Polytetrafluoroethylene
- PTFE- Polytetrafluoroethylene
- SiC- Silicon Carbide



Shaft

The non-rotating shaft eliminates the need for internal fasteners and additional O-rings. The patented shaft groove allows unexpected particles to travel along the shaft without damaging the radial bearings and prevents a stagnation of flow in the rear casing.

Main Bushing

Oversized, heavy duty one-piece design maintains its rated performance long-term, even under the most abusive conditions. Available in SiC or carbon.

Bracket

Connects the driver to the wet end. A sensing probe can be inserted into the NPT drain.

Driver

Accepts either a standard C-face NEMA T-Frame or IEC motor.



Outer Magnet

The superior strength of the rare earth magnets enables the pump to run at the rated torque throughout the entire temperature range without requiring soft-start motors. The magnets are completely encapsulated for protection against corrosive environments inside and out.

Rear Casing/Rear Casing Support

The innovative design of the rear casing reduces energy costs by eliminating all unwanted heat. Its shell is an injection molded fluoroplastic backed by a composite cover. This design provides an even higher high burst pressure and safety factor.

O-Rings

Available in FKM, EPDM, or special materials by request.

Back Plate

Large back plate provides a large opening to casing for easy inspection.

Volute

Solid fluoroplastic volute separates air from liquid and returns the liquid to the casing.

Valve

Fluoroplastic check valve prevents back flow velocity and increases priming speed.

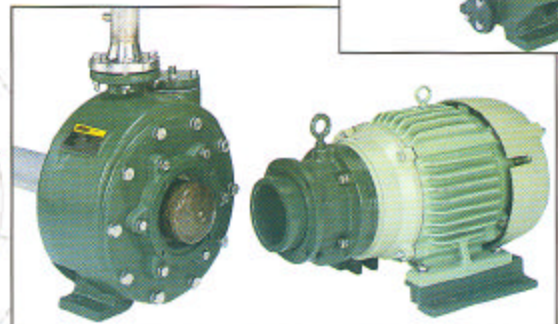
The casing is made of ductile iron and is designed with a large priming chamber offers fast priming. The seamless molded-in-place fluoropolymer provides excellent corrosion resistance.

Materials: Glass Fiber Reinforced, Perfluoroalkoxy Fluoropolymer, Poly-Tetra-Flouro-Ethylene Fluoropolymer, Silicon Carbide

Optional gooseneck provides additional installation flexibility.

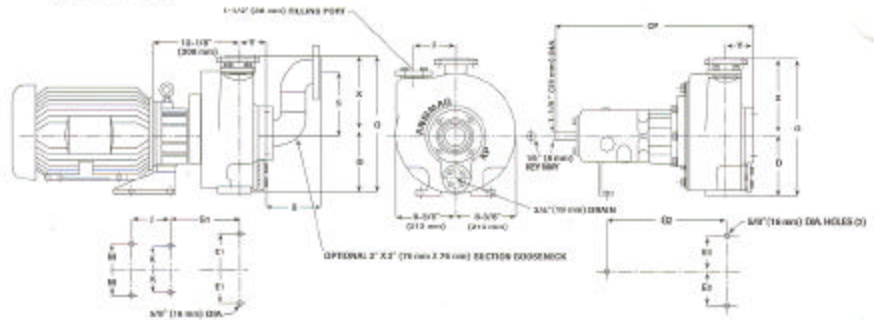


Driver can be installed or replaced without opening the pump casing, simplifying inspections and maintenance.





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KP Dimensions

Suction Size	Discharge Size	B	CP	D	E1	F		
3.00" 76 mm	2.00" 51 mm	8.00" 203 mm	27.625" 702 mm	8.25" 210 mm	4.88" 124 mm	5.75" 146 mm		
G1	G2	J	K	M	O	S	X	Y
9.86" 250 mm	16.75" 425 mm	5.25" 133 mm	3.25" 83 mm	3.63" 92 mm	19.00" 483 mm	9.50" 241 mm	10.75" 273 mm	4.00" 102 mm

Specifications

Maximum Suction Lift:

20 ft (6.5 m) with H₂O
at 68° F (20° C) at 3600 rpm

Temperature Range:

-20°F to 250°F (-30°C to 121°C) max.

Maximum Discharge Pressure:

285 psi (19.3 Bar)

Slurry:

5% maximum

Minimum Flow:

5 gpm at 3600 rpm
(1.13 m³/hr at 2900 rpm)

Motors:

Up to 30 hp (22.4 kW)

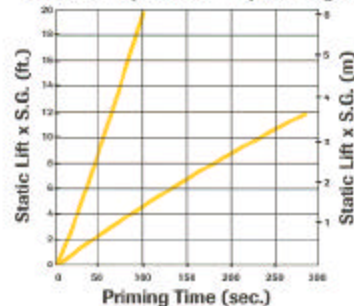
Model:

KP326 (3" x 2" x 6")

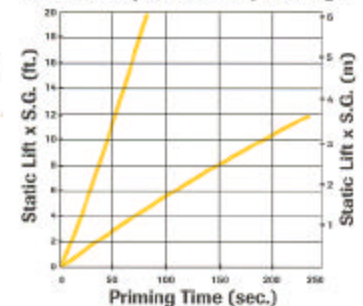
(76 mm x 51 mm x 152 mm)

Priming Lift

50 hz - 2900 rpm/1450 rpm
3" Suction Pipe 6.450" Impeller s.g.:1

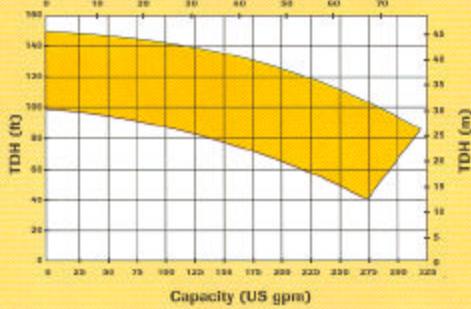


60 hz - 3500 rpm/1750 rpm
3" Suction Pipe 6.450" Impeller s.g.:1

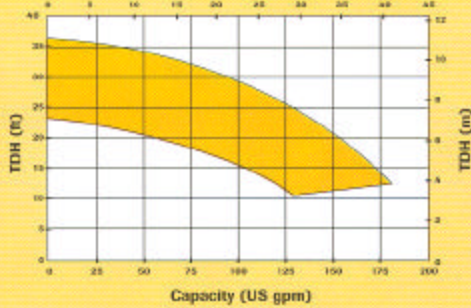


Priming Time will be reduced when smaller suction pipe is used. Priming Lift will be reduced as temperature of liquid increases.

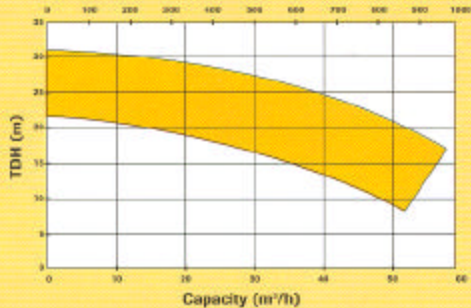
3500 rpm Capacity (m³/h) 60 HZ



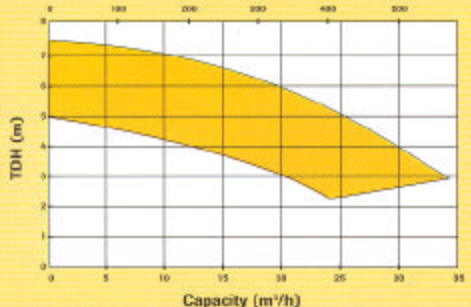
1750 rpm Capacity (m³/h) 60 HZ



2900 rpm Capacity (liters/min.) 50 HZ



1450 rpm Capacity (liters/min.) 50 HZ



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Manufacturers representatives, distributors, service centers and direct offices are located throughout the world. For a complete list, visit our website.



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