

ANSIMAG[®]

Simple by Design™



VERTICAL IN-LINE • MAG-DRIVE
CENTRIFUGAL PUMPS



Sundyne
CORPORATION 



VERTICAL IN-LINE • MAG-DRIVE CENTRIFUGAL PUMPS

Tackles Your Toughest Vertical In-Line Challenges.

KV series vertical in-line pumps feature an optimized design that has evolved through years of experience and thousands of proven installations with our K+ series horizontal pump. KV can tackle your toughest vertical in-line challenges, yet the innovative design is remarkably simple providing long lasting, heavy duty performance that's problem free.

Sealless, Mag-Drive Coupling.

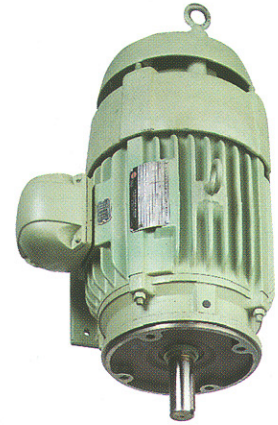
The magnetically coupled design provides sealless operation eliminating both leaks and seal maintenance costs. Constructed with first-class materials throughout, KV Pumps provide long-lasting, heavy duty performance with very low maintenance costs.

Non-Metallic

All wetted parts are non-metallic and therefore handle most corrosives and solvents up to 250° F (121°C) without corrosion. The non-metallic rear casing/containment shell design approaches the strength of steel, without the loss in efficiency associated with metal reinforcements. As a result, all unwanted heat is eliminated, reducing energy costs.

Easy Installation

KV series pumps meet ANSI B73.2 dimensional standards, so expensive piping changes are unnecessary making KV series pumps easy and economical to install.



Driver

Standard C-face NEMA T-Frame or IEC motor can be installed and/or replaced without opening the pump casing.

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.

Bracket

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

Rear Casing/Rear Casing Support

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

O-Ring

For better field reliability, there's only one fully confined sealing O-ring. Available in FKM, EPDM, or special materials by request.

Impeller

A CFR/ETFE single-piece impeller developed from a complex and proprietary process gives KV series pumps maximum heat resistance, greater strength and better performance. Magnets embedded in the impeller make for an overall simple design. GFR/PFA is also available.

Shaft Support/ Thrust Ring

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

Casing

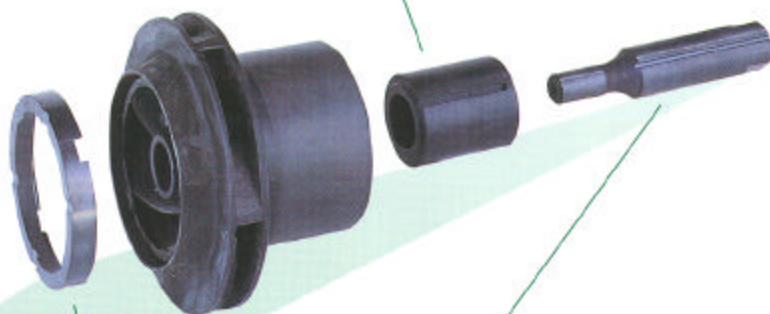
The in-line casing is made of ductile iron and is designed to handle heavy pipe loads. The seamless molded-in-place fluoropolymer liner is used for maximum corrosion resistance.

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- Perfluoroalkoxy Fluoropolymer
PTFE- Poly-Tetra-Flouro-Ethlene Fluoropolymer
SiC- Silicon Carbide

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.



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.

Mouth ring

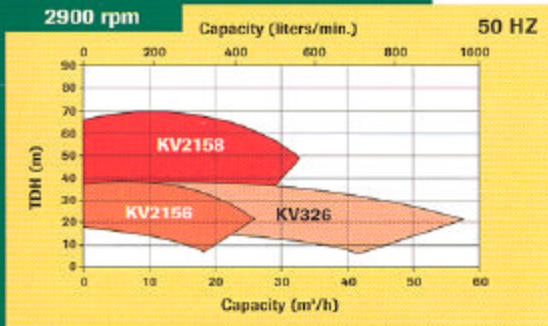
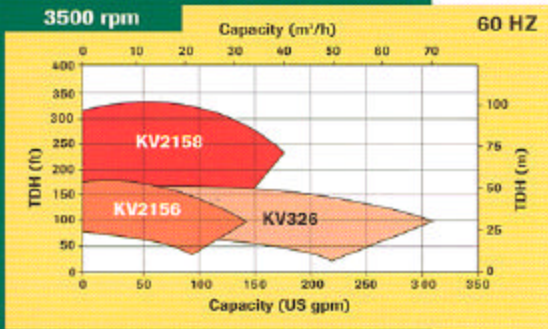
Removable for quick and easy field replacement. The hydropad design allows the pumping of almost any heat sensitive liquid. Available in CFR/PTFE or SiC.

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





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KV Specifications

Temperature Range:

-20°F to 250°F (-30°C to 121°C)

Maximum Discharge Pressure:

285 psi (19.3 Bar)

Maximum Flow:

300 GPM (68 m³/hr)

Maximum Viscosity:

1200 SSU (260 centistokes)

Slurry:

5% by weight (150 microns)

Consult factory if application exceeds this specification.

Dimensional Standards:

ASME/ANSI B73.2

ISO 2858

JIS B8313

Motors:

Up to 30 hp (22.5 kW)

Mounting:

Close coupled NEMA and IEC

Models:

KV2156 (2" x 1.5" x 6")

(49 mm x 38 mm x 152 mm)

KV326 (3" x 2" x 6")

(76 mm x 49 mm x 152 mm)

KV2158 (2" x 1.5" x 8")

(49 mm x 38 mm x 203 mm)

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



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



Sundyne CORPORATION

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