

Model I-Drive[®] CA

Electromagnetic Drive Centrifugal Pump

MICROPUMP

The innovative Micropump[®] I-Drive[®], in conjunction with the Series CA pump, delivers high-performance in a very small package. The compact design features an innovative brushless DC motor that contains no moving parts for outstanding functionality. The magnetic drive also removes the need for direct drive connection to the pump impeller, eliminating leak points associated with shaft seals, while providing energy-efficient fluid delivery. Stainless steel construction of the Series CA pump provides superior chemical and abrasion resistance. For easy maintenance, the Series CA features an integrated impeller and magnet assembly to reduce the number of rotating parts and maximizing pump life.

Small Size / High Performance

The miniature size of the Series CA coupled with the compact I-Drive[®] creates a high performance package that is easy incorporated into your system design.

Electromagnetic Drive

The unique design of the electromagnetic drive eliminates all moving parts to increase motor life. Variable speed operation is controlled via 0-5 VDC, 4-20mA current loop, or manual control.

Simple Construction

For long life and easy service, Series CA pumps use a minimal number of moving parts. Its impeller/magnet assembly integrates rotating parts into one element, which reduces alignment problems, failures, and wear rates.



Superior Chemical and Abrasion Resistance

Impellers and wetted parts are made of PTFE and 316 stainless steel to provide excellent chemical compatibility and abrasion resistance, ensuring maximum service life under the most demanding conditions.

Energy Efficient Delivery

The Series CA pump housing is investment-cast in 316 stainless steel to ensure smooth flow with maximum corrosion resistance. A volute-type casing passageway is proportioned so fluid maintains its velocity head with minimal energy loss and low required input power.

Innovative Designs

Micropump uses the latest engineering tools and manufacturing equipment to produce the most innovative pumping solutions available. Products are developed using state-of-the-art CAD, Finite Element Analysis (FEA), and rapid prototyping tools to ensure the highest level of product quality and reliability.

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Performance Summary

- Flow Rate at 6000 rpm
 - ▶ 21 L/min (5.5 gpm)
- Maximum Head
 - ▶ 5.9 meters (19.4 ft)
- Maximum Rated System Pressure
 - ▶ 13.8 Bar (200 psi)
- Temperature Range
 - ▶ -46 to 122 °C (-50 to 250 °F)
- Viscosity Range
 - ▶ Up to 100 cps
- Suction Capabilities
 - ▶ Consult distributor

Pump Construction

Magnetic drive centrifugal pump

Wetted Materials

- Impeller Assembly
 - ▶ 316 stainless steel impeller
 - ▶ PTFE bushings
 - ▶ 316 stainless steel/PTFE driven magnet
- Pump Housing
 - ▶ 316 stainless steel
- Static Seals
 - ▶ Viton[®]
 - ▶ PTFE
- Thrust Plate
 - ▶ PTFE

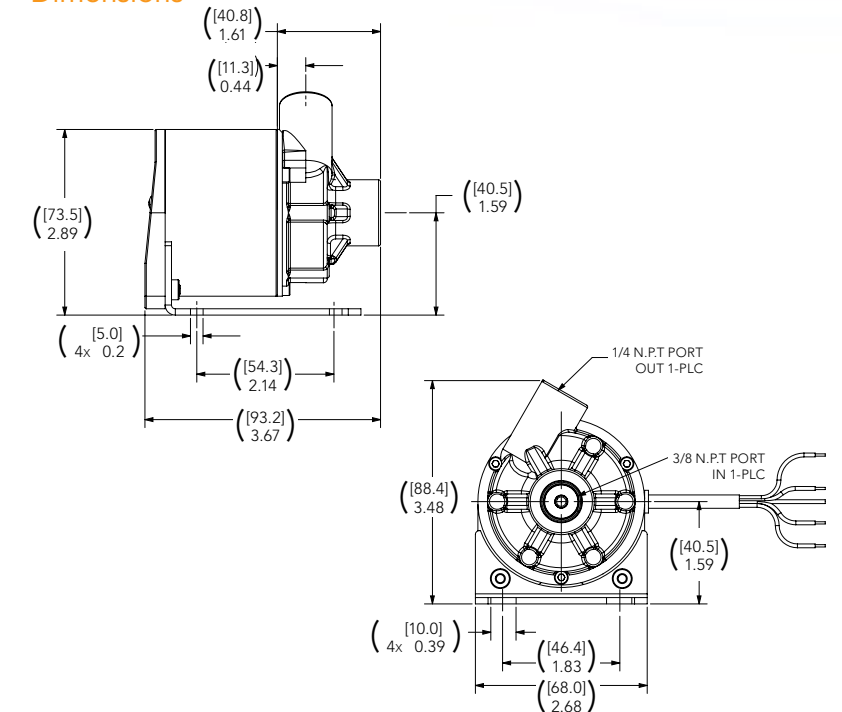
Driving Magnet

Rare earth magnet encapsulated in PTFE/316 stainless steel

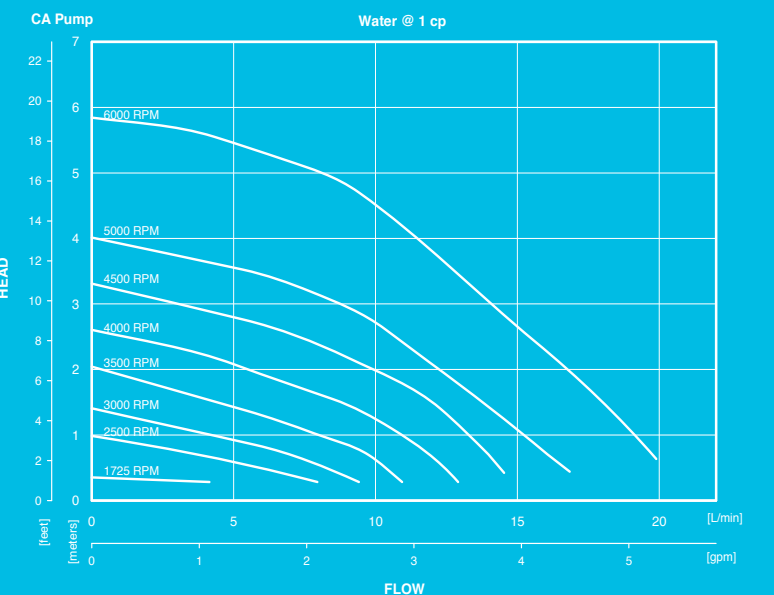
Drive options

- ▶ Electromagnetic

Dimensions



Pump Performance



ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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