

SERIES VARNA™

Magnetic Drive Sliding Vane Pump

 **Series Varna™** An exclusive design that combines

the high flow of a centrifugal pump with the pressure

producing and self-priming capabilities

of a positive displacement pump.

The Series Varna's magnetic drive

means no shaft seals leak, run hot

or wear out. Material construction

consisting of 100% engineered

plastic ensures that fluids will

not come into contact with any

metallic parts. The pump operates at low

speeds with a quiet, gentle, low-shear, non-pulsing action.



Small Size

The high displacement per revolution delivers flows that are usually found in much larger pumps.

Leak-Free

The magnetic drive and a single static O-ring seal keep the fluid securely inside the pump and potential contaminants out.

Non-Metallic Construction

Constructed from PPS, the Series Varna pump and its Parylene-coated driven magnet are unaffected by chemicals and solvents. A wide range of O-ring materials are available.

Low Pressure Performance

Perfect for sensitive applications, Series Varna pumps accommodate differential pressures up to 1.03 bar (15 psi) and flow rates to 14.0 L/min (3.75 gpm).

Flexible Motor Capability

For maximum flexibility, the Series Varna easily couples up to AC or DC Drives.

Easy to Clean and Service

By simply removing two screws, the Series Varna can be completely disassembled, leaving all surfaces exposed for cleaning or autoclaving. The pumps can also be easily serviced using a Micropump service kit and simple hand tools.

Gentle Pumping Action

With its non-pulsing action and low speed operation, the Series Varna is perfect for pumping shear sensitive fluids, liquids with soft particles in suspension, and high viscosity fluids.

Advanced Pump Technology

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

Enhanced Efficiency

As part of the IDEX family of companies, Micropump utilizes Kaizen, Lean Manufacturing and Six Sigma process improvement strategies to continually meet the challenge of improving quality while increasing productivity—all of which help Micropump better meet the pumping needs of customers in an increasingly diverse range of markets.

Proven Reliability

Over 40 years of experience solving the most difficult pumping problems go into the design and manufacture of every Micropump pump, ensuring the most reliable pumping solution available.



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Performance Summary

Flow Rate

at 1750 rpm

14.0 L/min 3.75 gpm

Maximum Displacement

8.17 ml/rev 2.16 gal/1000 rev

Maximum Differential Pressure

1.03 bar 15 psi

Maximum System Pressure

10.3 bar 150 psi

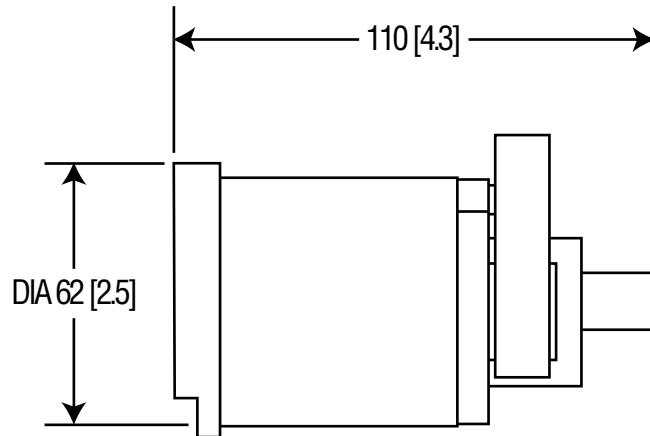
Temperature Range

0 to 38° C 32 to 100° F

Viscosity Range Maximum Speed

0 to 100 cps 1750 rpm

Dimensions



Units: mm[in]. Nominal dimensions shown.

Pump Construction

- Magnetic drive vane pump
- Four sliding vanes
- O-ring seal

Wetted Materials

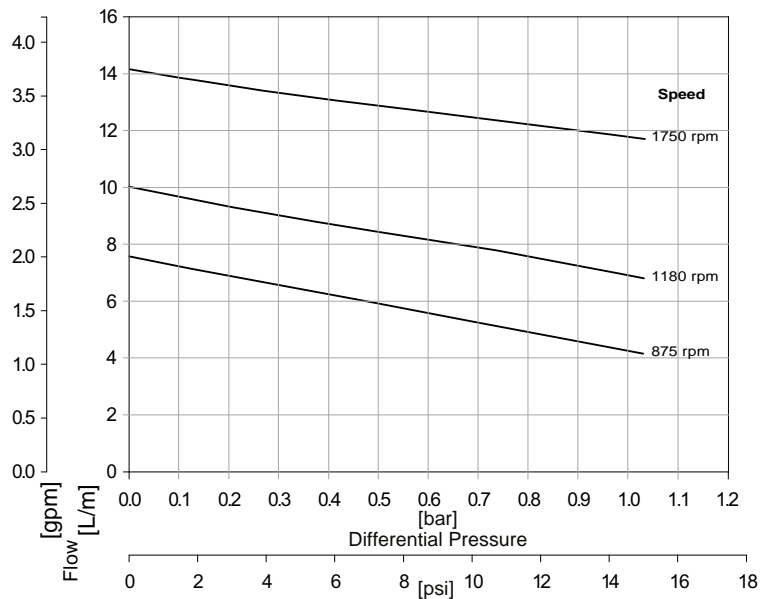
- Base material
 - PPS
- Vane material
 - PPS
- Magnet encapsulation
 - Parylene
- Static seals
 - Viton®
 - EP
 - Buna N

Drive Options

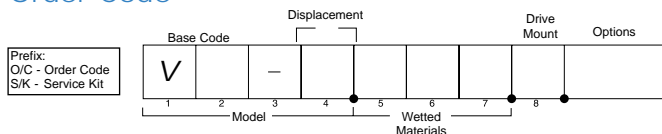
- AC
- DC

Pump Performance

Water @ 1 CP



Order Code



ACTUAL PERFORMANCE MAY VARY

Specifications are subject to change without notice.

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MP2500MPV-06/2002

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