

Series GM

Magnetic Drive Gear Pump

MICROPUMP®

Micropump® Series GM pumps deliver exceptional pumping performance for any high-precision application. These magnetically driven gear pumps feature a cavity style design with benefits such as chemical resistance, smooth, pulseless delivery, and high-system pressure capability. Available in standard and custom configurations, Series GM pumps keep your operations flowing smoothly.

Cavity Style Pumps

Cavity style pumps are excellent for wide-ranging inlet and outlet operating conditions, and allow for intermittently pumping in reverse.

Small Size

The miniature package size of the Series GM is easily incorporated into the design of many systems.

Leak-Free

The magnetic drive and static o-ring seal(s) keep the fluid securely inside the pump and potential contaminants out.

Smooth Pulseless Delivery

Positive displacement, precision gears provide consistent fluid delivery in continuous processes.

Chemically Resistant

Series GM has a long-life in aggressive environments.

Easy to Service

Series GM pumps are easy to service using a Micropump service kit and simple hand tools.

High System Pressure Capability

Optional version of the Series GM are designed to withstand system pressures up to 1,000 psi (69 bar).



Wide Range of Options and Configurations

Micropump's designs offer the flexibility to customize products to meet your more challenging requirements including:

- ▶ Multiple gear, body, and o-ring materials
- ▶ High-torque magnets
- ▶ Special bushing materials
- ▶ NEMA and IEC drive mounts

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.

Enhanced Efficiency

As part of the IDEX Health & Science Group, Micropump now offers fully-integrated liquid subassemblies, gas management systems, and precision components. Products include pumps, valves, manifolds, tubing, fittings, degassing/debubbling systems, air compressors, vacuum generators, and HPLC columns. Additional services are custom fluidic engineering and development, contract manufacturing, extrusion, molding, machining, and diffusion bonding.



Precision Engineered Fluidics™

Performance Summary

Flow Rate at 1,750 rpm

- ▶ 21,350 mL/min (5.6 gpm)

Displacement

- ▶ Gear Set G25
- ▶ mL/rev 12.2

Maximum Rated Differential Pressure

- ▶ 125 psi (8.7 bar)

Maximum Rated System Pressure

- ▶ 1,000 psi (69 bar)

Temperature Range

- ▶ -46–121 °C (-50–250 °F)

Viscosity Range

- ▶ 0.2–2,500 cps

Maximum Speed

- ▶ 1,750 rpm

Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Cavity style
- ▶ Helical, shafted gears
- ▶ Sleeve bushings
- ▶ O-ring seals

Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PEEK™

Static seals

- ▶ Viton®

Magnets

Driven and driving

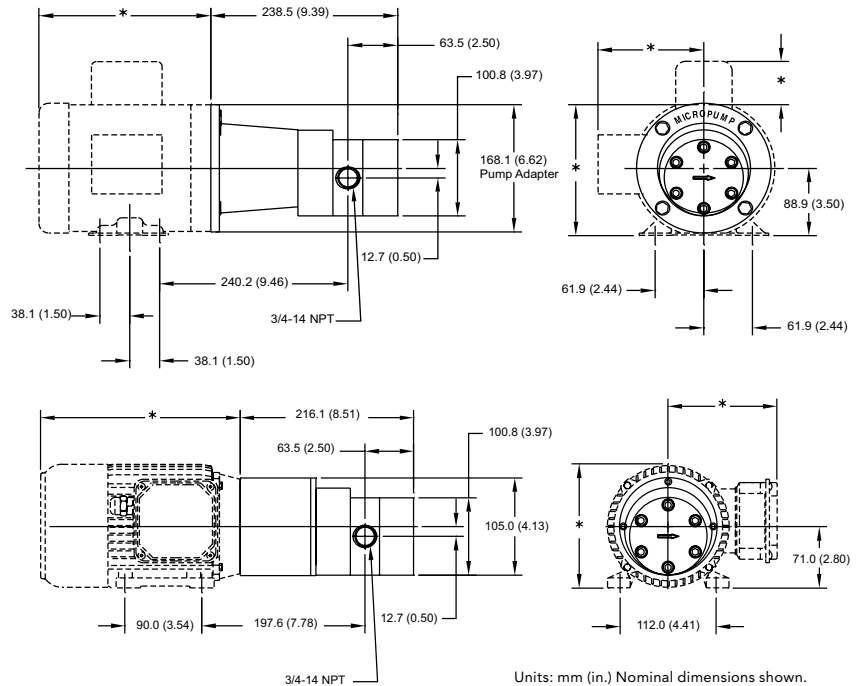
- ▶ Rare earth

Product Enhancements

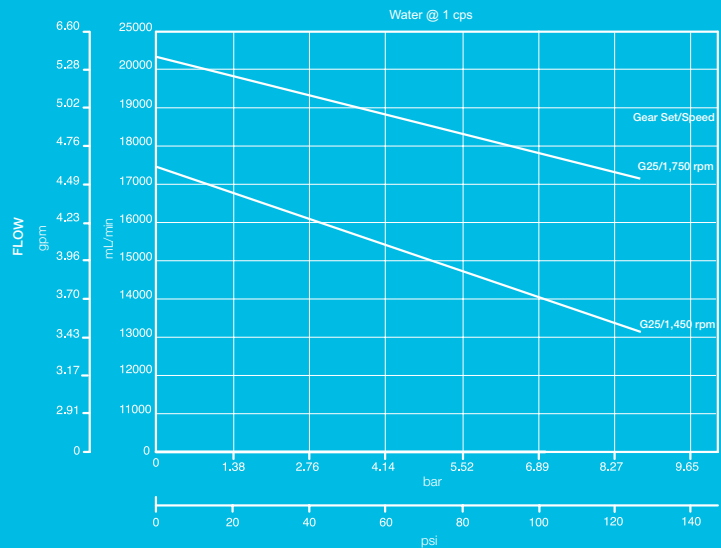
- ▶ High-system pressure

Dimensions

NEMA 56C Mount



Pump Performance



ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

Micropump, and the Micropump logo are registered trademarks of Micropump, Inc. Precision Engineered Fluidics is a trademark of IDEX Health & Science. PEEK polymer is a trademark of Victrex plc. ©2008 Micropump, Inc., A Unit of IDEX Corporation.

Revised on 06/11/2008



Micropump, Inc • IDEX Health & Science Group
 1402 NE 136th Avenue • Vancouver, WA 98684
 Tel 800.671.6269 • +1.360.253.2008 • Fax +1.360.253.8294
 info.micropump@idexcorp.com • www.idex-hs.com