

# 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

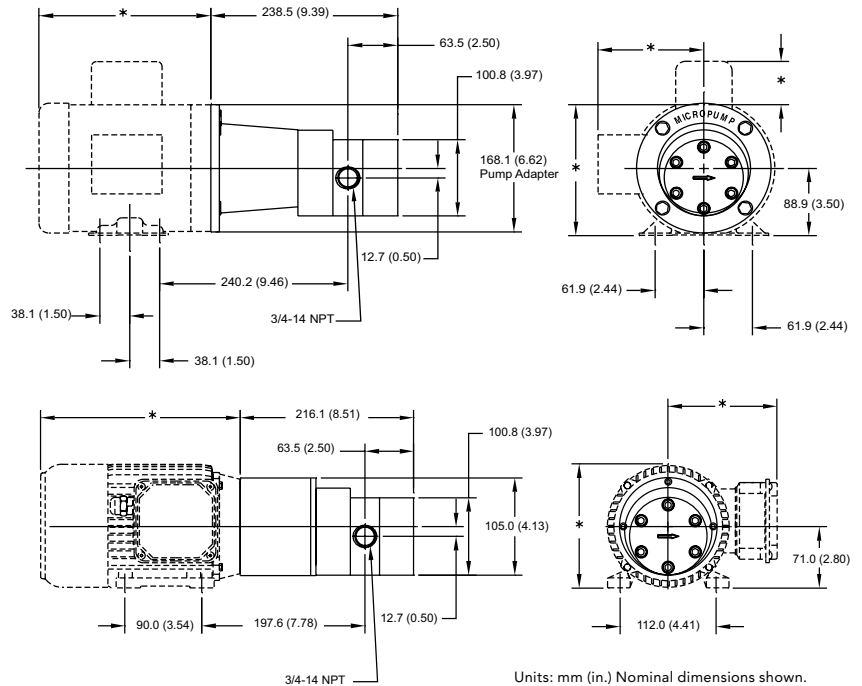
- ▶ Rare earth

## Product Enhancements

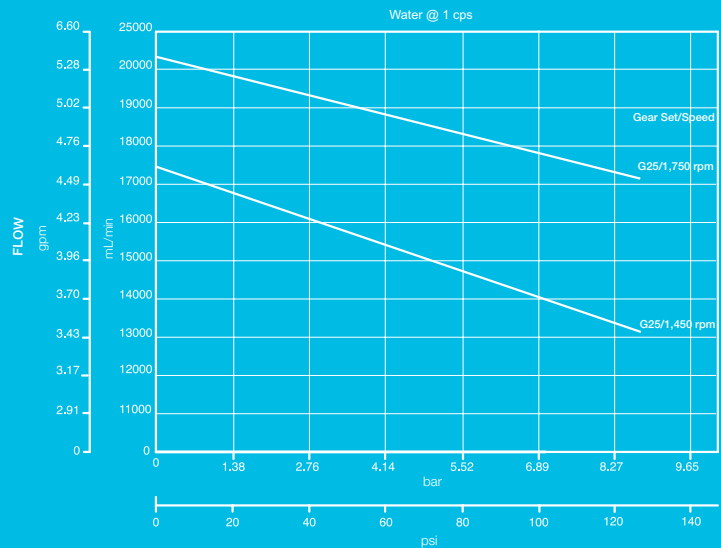
- ▶ High-system pressure

## Dimensions

NEMA 56C Mount



## Pump Performance



ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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