

# Series GMH

## Magnetic Drive Gear Pump

**MICROPUMP®**

Micropump® Series GMH 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 fluid delivery, and high-system pressure capability. Available with various drive mount options Series GMH pumps keep your operations running 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

Series GMH 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 GMH has a long-life in aggressive environments.

### Easy to Service

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

### High System Pressure Capability

Standard version of the Series GMH are designed to withstand system pressures up to 1,500 psi (108 bar).



### Options and Configurations

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

- Multiple o-ring materials
- High-torque magnets
- 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 CAD, Finite Element Analysis (FEA), and rapid prototyping tools to ensure the highest level of product quality and reliability.

### Safety Agency Certifications

UL recognized components for both NEMA and IEC drives  
EX rating for IEC drive mounts

## 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

- ▶ 1,500 psi (108 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 and titanium

### Gears

- ▶ PEEK™

### Static seals

- ▶ Viton®
- ▶ PTFE Encapsulate Viton (TEV)

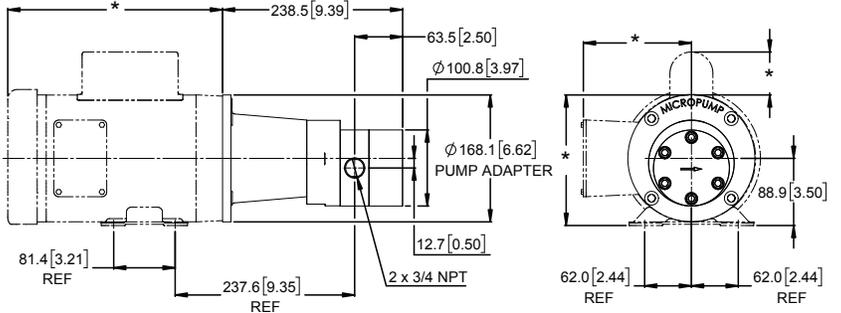
## Magnets

### Driven and driving

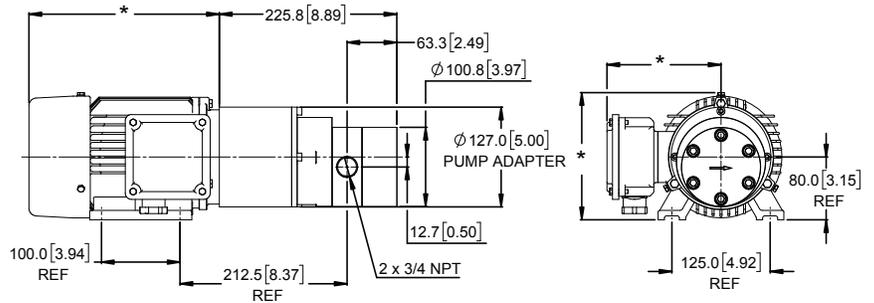
- ▶ Rare earth

## Dimensions

### NEMA 56C Mount

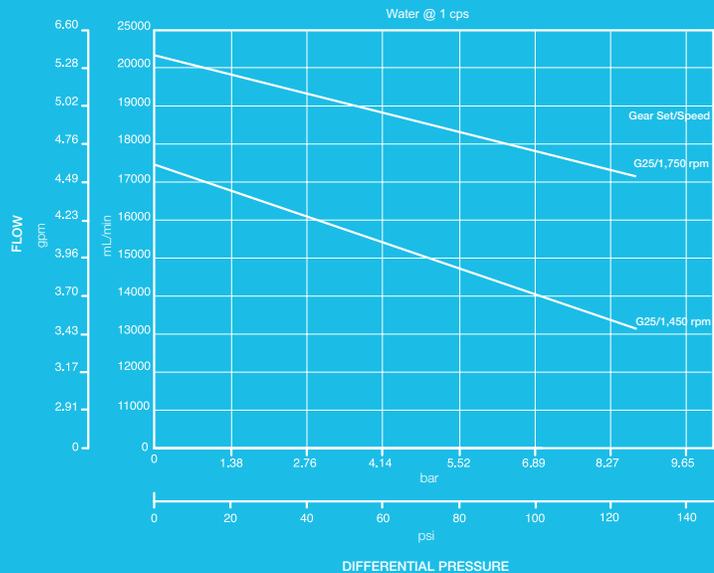


### IEC 80-B14 Mount



Units: mm (in.) Nominal dimensions shown

## Pump Performance



\*Higher differential pressures available - consult factory

# MICROPUMP®

ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

Micropump, and the Micropump logo are registered trademarks of Micropump, Inc.

PEEK polymer is a trademark of Victrex plc.

Viton is a registered trademark of E.I. du Pont de Nemours and Company.



**Micropump, Inc.**  
 1402 NE 136th Avenue  
 Vancouver, WA 98684  
 Tel +1.360.253.2008  
 www.micropump.com