

# Series GNH

## Magnetic Drive Gear Pump

**MICROPUMP®**

Micropump® Series GNH 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 GNH 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 GNH 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 GNH has a long-life in aggressive environments.

### Easy to Service

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

### High System Pressure Capability

Standard version of the Series GNH are designed to withstand system pressures up to 1,500 psi (103 bar).



### High System Pressure Capability

Standard version of the Series GNH are designed to withstand system pressures up to 1,500 psi (103 bar).

### Multiple Options and Configurations

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

- Multiple gear and 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**  
42,875 mL/min (11.38 gpm)

### Displacement

- ▶ Gear Set G35
- ▶ mL/rev 24.5

### Maximum Rated Differential Pressure

- ▶ 100 psi (6.9 bar)

### Maximum Rated System Pressure

- ▶ 1,500 psi (103 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
- ▶ Three helical, shafted gears
- ▶ O-ring seals

## Wetted Materials

### Base material

- ▶ 316 Stainless Steel and Titanium

### Gears

- ▶ PEEK™
- ▶ PTFE

### Static seals

- ▶ Viton®
- ▶ PTFE

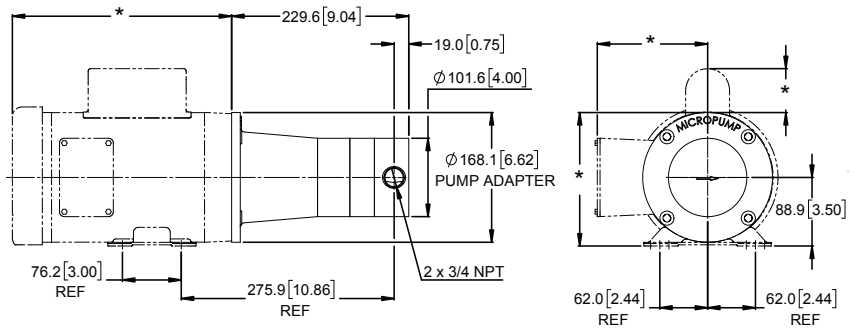
## Magnets

### Driven and driving

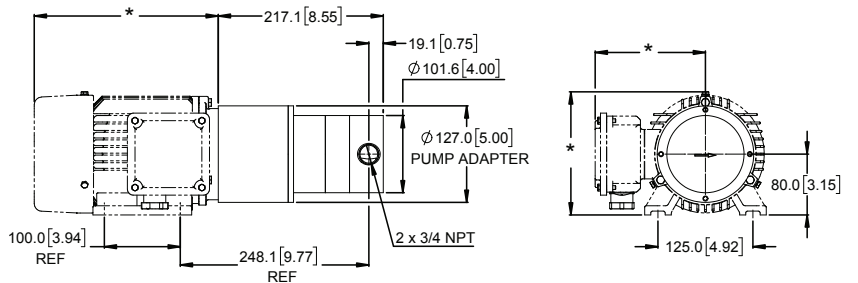
- ▶ Rare earth

## Dimensions

### NEMA 56C Mount



### IEC 80-B14 Mount



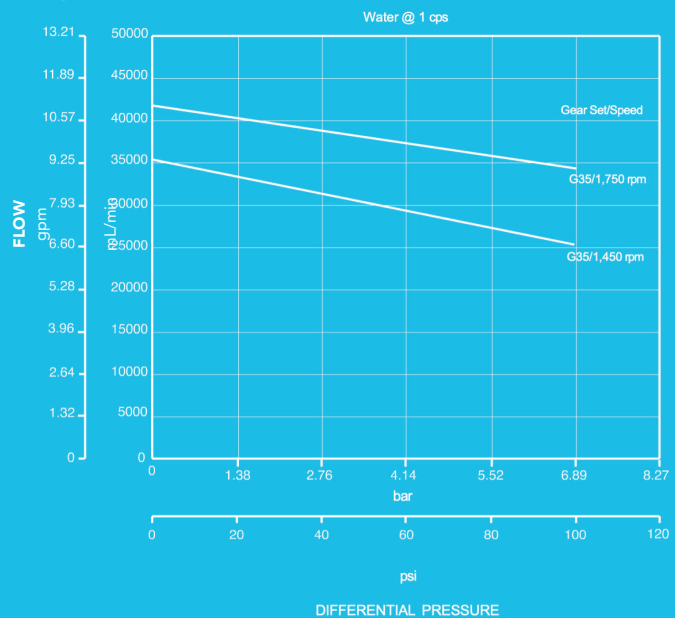
#### Notes:

\* These dimensions will vary based on motor selection.

1. Units: mm [in.]

2. All dimensions are nominal

## Pump Performance



# 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