Product Data Sheet

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

Cavit y 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).

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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

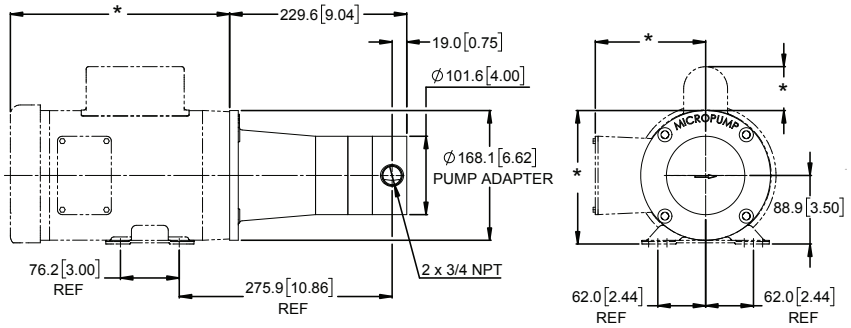
Magnets

Driven and driving

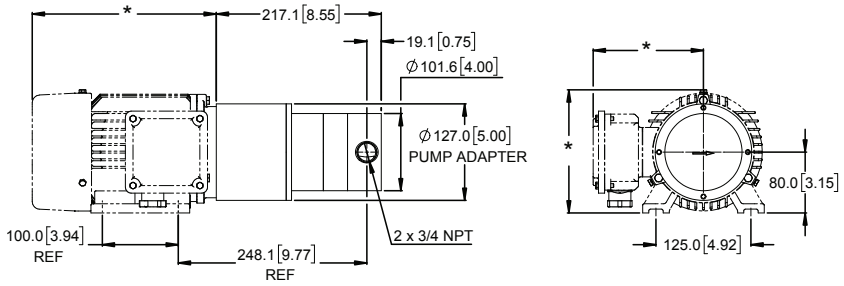
- Rare earth

Dimensions

NEMA 56C Mount

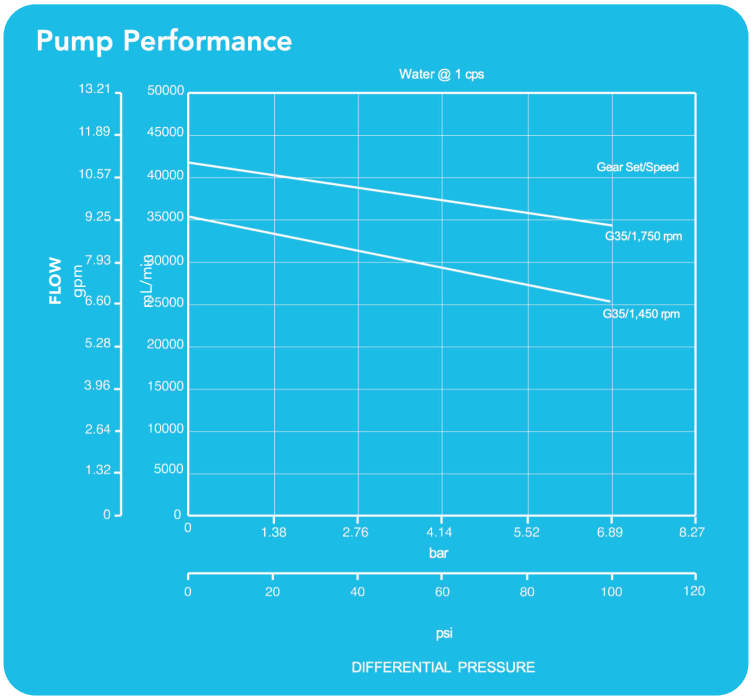


IEC 80-B14 Mount



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.

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