

Series GL

Magnetic Drive Gear Pump

MICROPUMP®

Series GL pumps deliver exceptional pumping performance for any high-precision application. These compact 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 in standard and custom configurations, Micropump®'s Series GL 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 GL 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 GL has a long-life in aggressive environments.

Easy to Service

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

High-System Pressure Capability

Optional versions of the Series GL are designed to withstand system pressures up to 103 Bar (1500 psi).



Wide Range of Options and Configurations

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

- ▶ Three standard gear sizes
- ▶ Multiple gear, body, and o-ring materials
- ▶ Optional 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 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.

Performance Summary

Flow Rate at 1750 rpm

- ▶ 13,475 mL/min (3.5 gpm)

Displacement

- ▶ Gear Set H21 H23 H25
- ▶ mL/rev 4.6 6.2 7.7

Maximum Rated Differential Pressure

- ▶ 4.83 Bar (70 psi)

Maximum Rated System Pressure

- ▶ 103 Bar (1500 psi)

Temperature Range

- ▶ -46–121 °C (-50–250 °F)

Viscosity Range

- ▶ 0.2–2500 cps

Maximum Speed

- ▶ 3450 rpm

Pump Construction

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

Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PTFE

Static seals

- ▶ Viton®
- ▶ PTFE

Magnets

Driven and driving

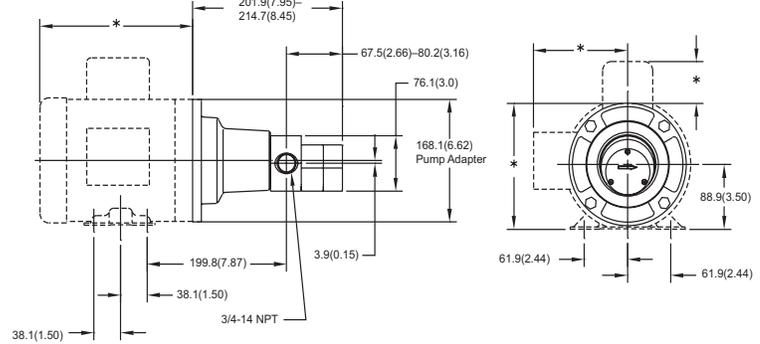
- ▶ Ferrite
- ▶ Rare earth

Product Enhancements

- ▶ High-system pressure

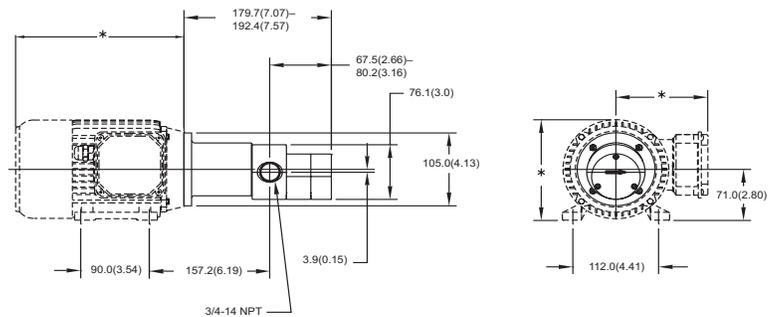
Dimensions

NEMA 56C Mount



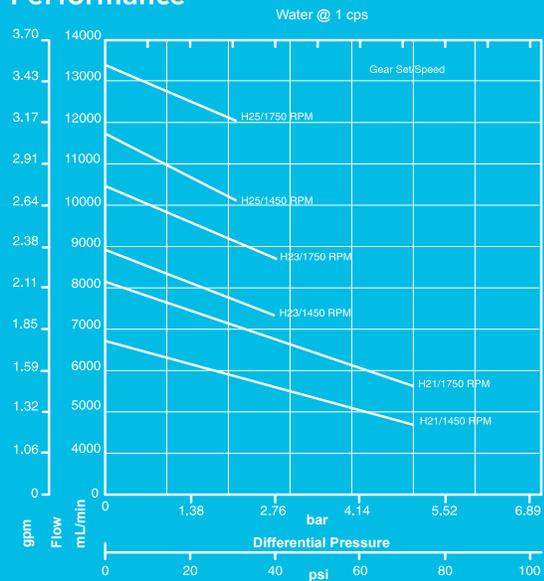
Units: mm(in). Nominal dimensions shown.

IEC 71-B14 Mount



Units: mm(in). Nominal dimensions shown.

Pump Performance



*Higher differential pressures available - consult factory

ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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