

Series GN

Magnetic Drive Gear Pump

MICROPUMP®

Micropump® Series GN 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 in standard and custom configurations, Series GN 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

The miniature package size of the Series GN 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 GN has a long-life in aggressive environments.

Easy to Service

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

High System Pressure Capability

Optional version of the Series GN are designed to withstand system pressures up to 1,500 psi (103 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
- ▶ 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

- ▶ 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

Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Cavity style
- ▶ Three helical, shafted gears
- ▶ Stationary shafts
- ▶ O-ring seals

Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PEEK™

Static seals

- ▶ Viton®

Magnets

Driven and driving

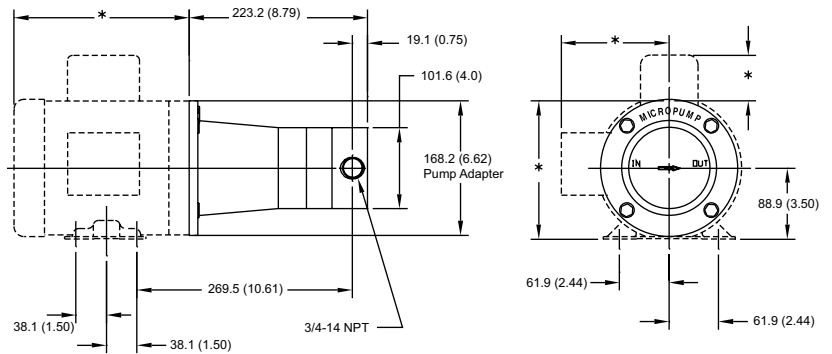
- ▶ Rare earth

Product Enhancements

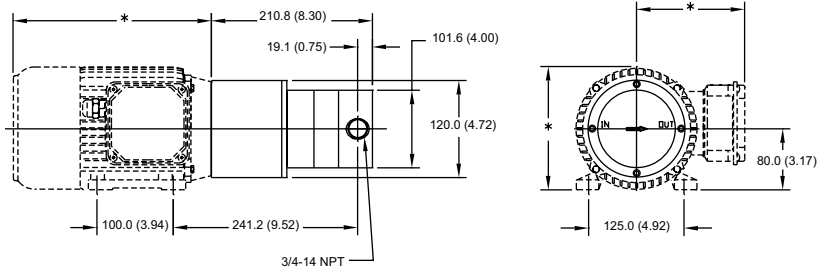
- ▶ High-system pressure

Dimensions

NEMA 56C Mount

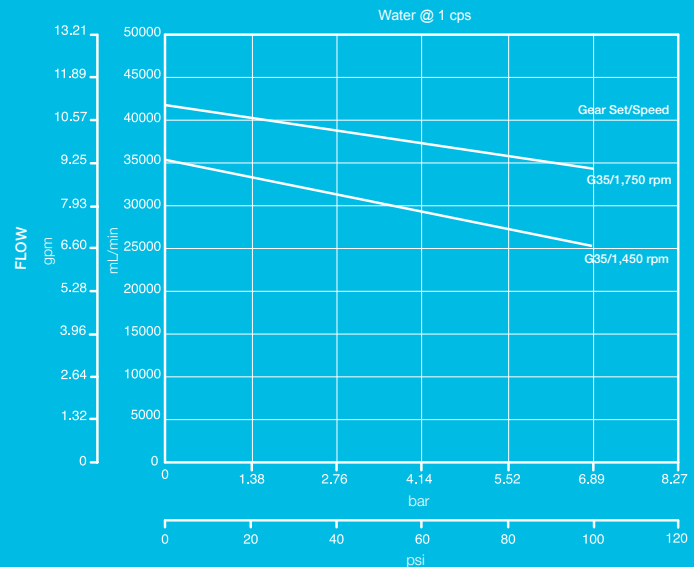


IEC 71-B14 Mount



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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