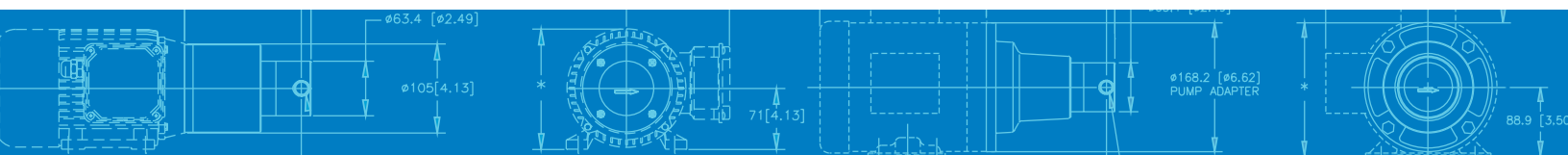




# Series GN

## MAGNETIC DRIVE GEAR PUMP

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, Micropump's 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.

### FLUID PATH INTEGRITY

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 103 Bar (1500 psi).

### WIDE RANGE OF CONFIGURATIONS

Micropump's designs offer a wide range of configurations to meet your more challenging requirements including:

- ▶ Multiple gear, body, and o-ring materials
- ▶ High-torque magnets
- ▶ NEMA and IEC drive mounts

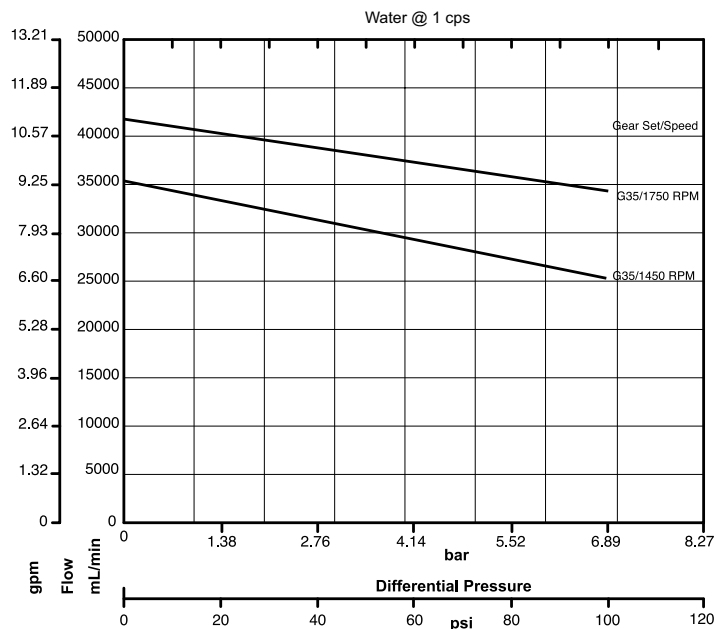
### INNOVATIVE DESIGNS

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 Corporation, Micropump can offer 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.

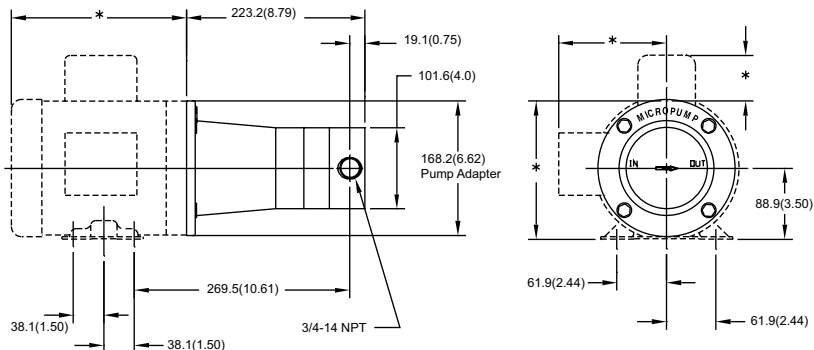
# PUMP PERFORMANCE



\*Higher differential pressures available - consult factory

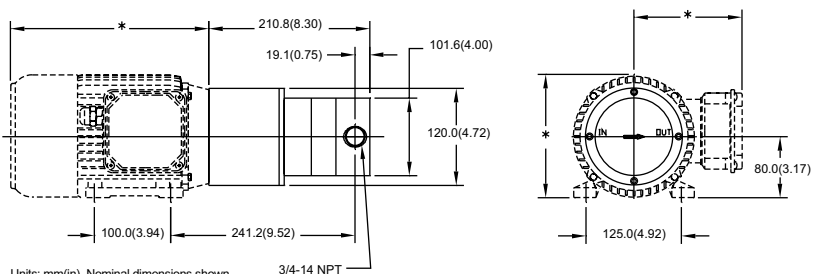
## DIMENSIONS

### NEMA 56C MOUNT



Units: mm(in). Nominal dimensions shown.

### IEC 71-B14 MOUNT



Units: mm(in). Nominal dimensions shown.

## PERFORMANCE SUMMARY

### FLOW RATE AT 1750 RPM

- ▶ 42,875 mL/min (11.38 gpm)

### DISPLACEMENT

- ▶ Gear Set G35
- ▶ mL/rev 24.5

### MAXIMUM RATED DIFFERENTIAL PRESSURE

- ▶ 6.9 Bar (100 psi)

### MAXIMUM RATED SYSTEM PRESSURE

- ▶ 103 Bar (1500 psi)

### TEMPERATURE RANGE

- ▶ -46 to 121 °C (-50 to 250 °F)

### VISCOSITY RANGE

- ▶ 0.5 to 2500 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

**MICROPUMP**



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