

# Series GC

## Magnetic Drive Gear Pump

**MICROPUMP®**

When you need a pump that delivers high-performance in a compact package, Series GC is an excellent solution. Series GC pumps provide precise, pulseless flow for a wide range of fluid temperatures. Featuring the patented Micropump® suction shoe design, the pumps self-compensate for wear ensuring near zero slip and a long pump life. Available in standard or custom designs, Series GC keeps your operations flowing smoothly.

### Suction Shoe Style Pumps

Suction shoe style pumps self-compensate for wear, are excellent for continuous duty processes, and offer improved efficiencies when pumping at higher pressures.

### Small Size

The miniature package size of the Series GC 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, helical gears provide consistent fluid delivery in continuous processes.

### Chemically Resistant

Series GC has a long-life in aggressive environments.

### Easy to Service

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



### Wide Range of Options and Configurations

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

- ▶ Two and three gear versions
- ▶ Multiple gear, body, and o-ring materials
- ▶ Optional high-torque magnets
- ▶ NEMA, IEC, and Micropump 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 3,450 rpm

- ▶ 12,006 mL/min (3.17 gpm)

Displacement

- ▶ Gear Set M23 M25 M35
- ▶ mL/rev 0.81 1.82 3.48

Maximum Rated Differential Pressure

- ▶ 125 psi (8.7 bar)

Maximum Rated System Pressure

- ▶ 1,500 psi (103 bar)

Temperature Range

- ▶ -46–177 °C (-50–350 °F)

Viscosity Range

- ▶ 0.2–1,500 cps

Maximum Speed

- ▶ 6,000 rpm

## Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Suction shoe style
- ▶ Two or three helical gears
- ▶ Stationary shafts
- ▶ O-ring seal

## Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PEEK™
- ▶ PPS

Static Seals

- ▶ Viton®
- ▶ TEV

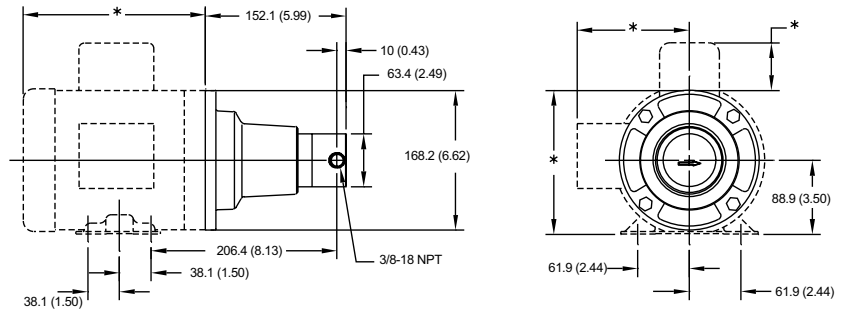
## Magnets

Driven and driving

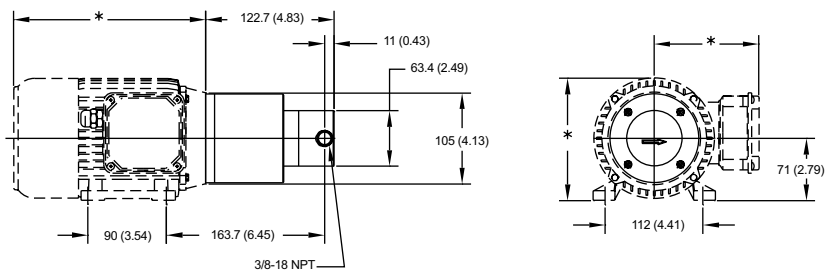
- ▶ Ferrite
- ▶ Rare earth

## Dimensions

NEMA 56C Mount

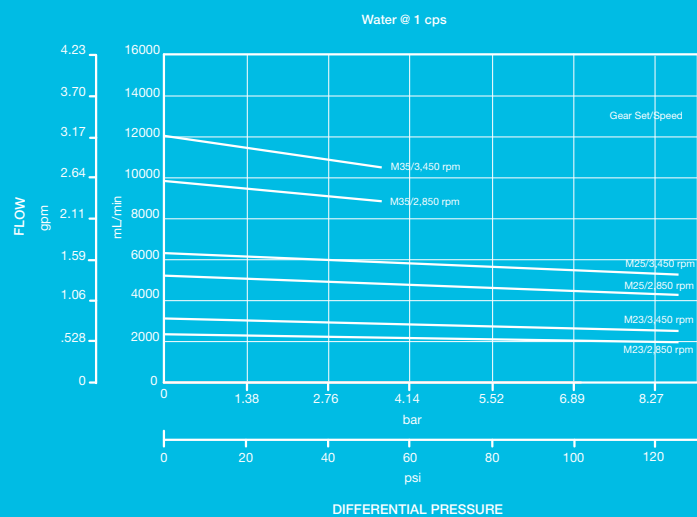


IEC 71-B14-mount



Units: mm (in.) Nominal dimensions shown.

## Pump Performance



ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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