

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 Micropump®'s patented 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.

Performance Summary

Flow Rate at 3450 rpm

- ▶ 12006 mL/min (3.17 gpm)

Displacement

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

Maximum Rated Differential Pressure

- ▶ 8.7 Bar (125 psi)

Maximum Rated System Pressure

- ▶ 103 Bar (1500 psi)

Temperature Range

- ▶ -46-177 °C (-50-350 °F)

Viscosity Range

- ▶ 0.2-1500 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

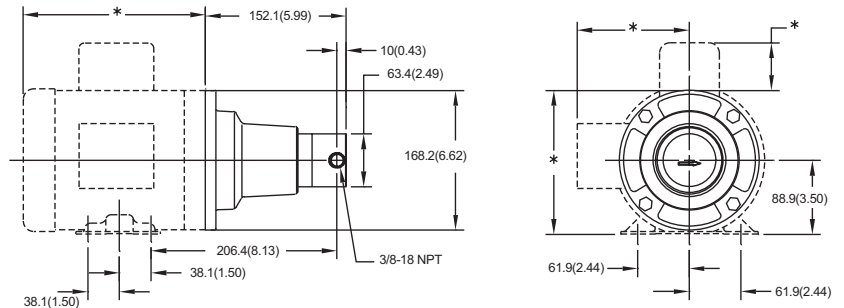
Magnets

Driven and driving

- ▶ Ferrite
- ▶ Rare earth

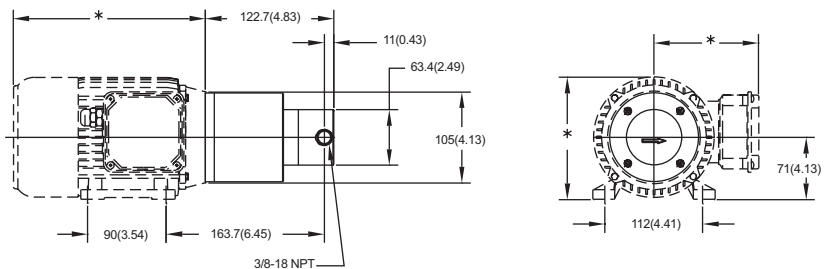
Dimensions

NEMA 56C Mount



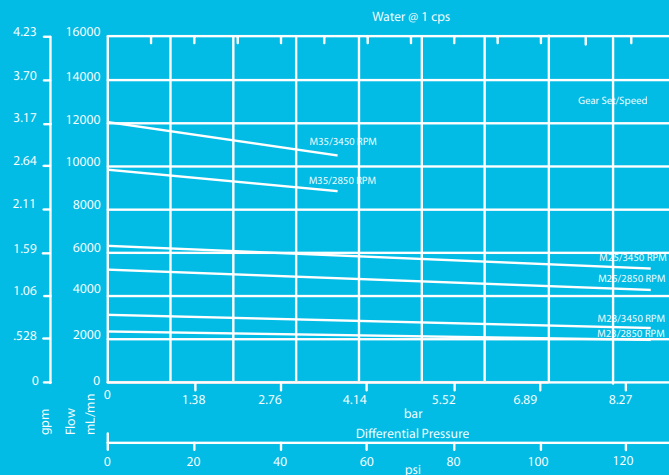
Units: mm(in). Nominal dimensions shown.

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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