

Series GD

Magnetic Drive Gear Pump

MICROPUMP®

When you need a pump that delivers high-performance while pumping harsh, abrasive fluids, Series GD is an excellent solution. Micropump®'s Series GD pumps provide precise, pulseless flow for applications like pipeline sampling by utilizing an abrasion resistant cavity style pump chamber and hardened steel gears. As a result, Series GD pumps offer extended life in aggressive environments.

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 GD 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 GD has a long-life in aggressive environments.

Easy to Service

Series GD 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:

- ▶ Multiple gear, body, and o-ring materials
- ▶ Optional high torque magnets
- ▶ NEMA and IEC drive mounts
- ▶ Hybrid/abrasive resistant materials

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

- ▶ 12,006 mL/min (3.17 gpm)

Displacement

- ▶ Gear Set M35
- ▶ mL/rev 3.48

Maximum Rated Differential Pressure

- ▶ 8.7 Bar (125 psi)

Maximum Rated System Pressure

- ▶ 103 Bar (1500 psi)

Temperature Range

- ▶ -46-121 °C (-51-250 °F)

Viscosity Range

- ▶ 0.5-1500 cps

Maximum Speed

- ▶ 4000 rpm

Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Cavity style
- ▶ Three helical gears
- ▶ Stationary shafts
- ▶ O-ring seal

Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PEEK
- ▶ PPS
- ▶ Hardened steel

Static seals

- ▶ Viton®
- ▶ TEV

Magnets

Driven and driving

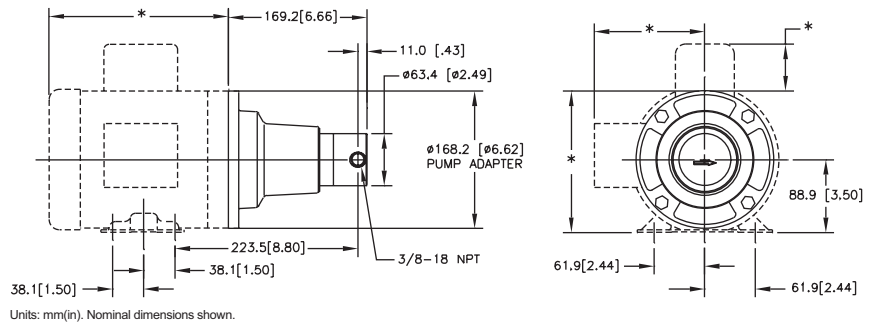
- ▶ Ferrite
- ▶ Rare earth

Product Enhancements

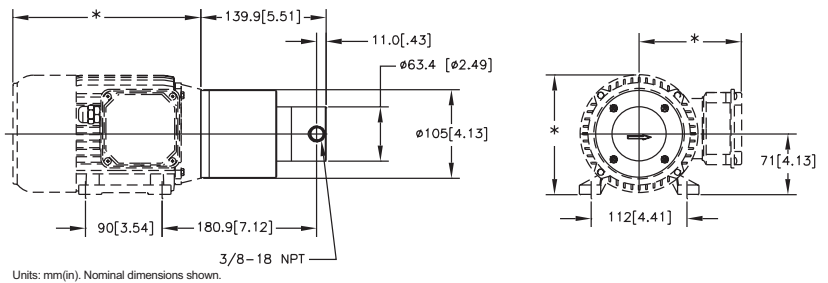
Hybrid/abrasive resistant materials

Dimensions

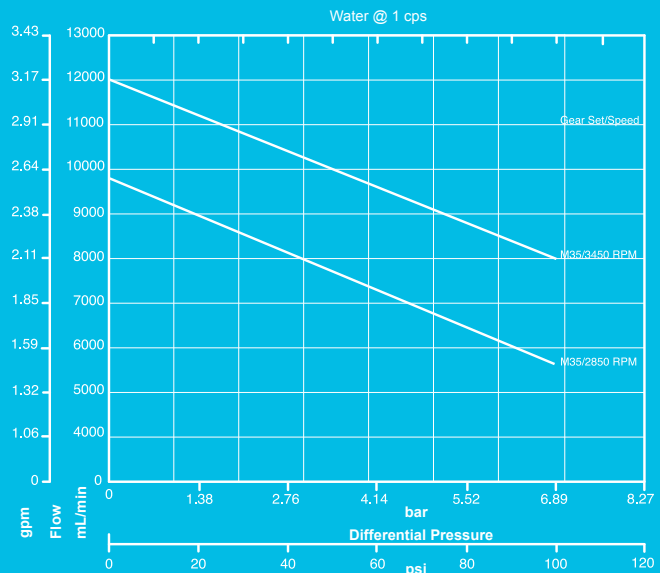
NEMA 56C Mount



IEC 71-B14-mount



Pump Performance



*Higher differential pressures available - consult factory

ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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REV. 06/12