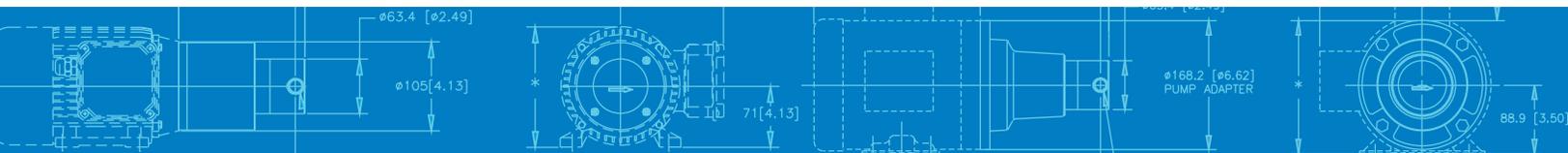




# Series GD

## MAGNETIC DRIVE GEAR PUMP

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.

### 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 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 CONFIGURATIONS

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

- ▶ Multiple gear, body, and o-ring materials
- ▶ High torque magnets
- ▶ Hybrid/abrasive resistant materials

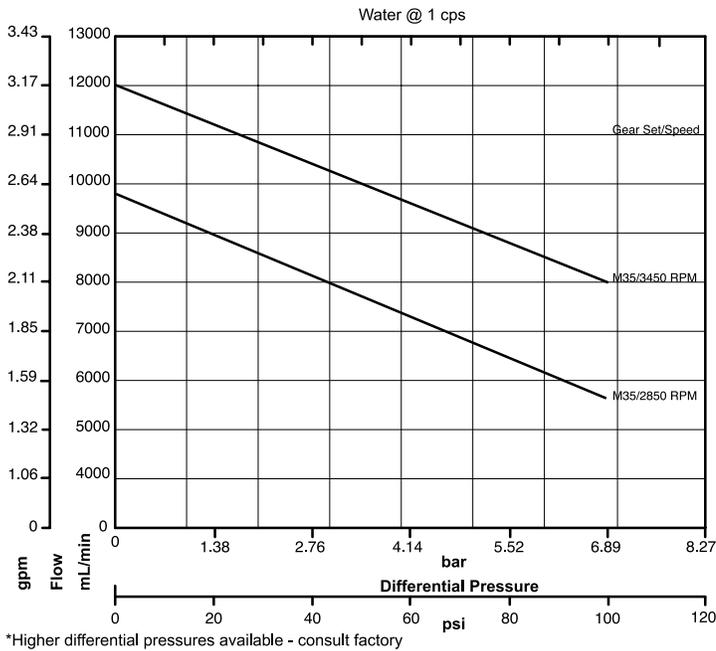
### INNOVATIVE DESIGNS

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 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



## 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 to 121 °C (-51 to 250 °F)

### VISCOSITY RANGE

- ▶ 0.5 to 1500 cps

### MAXIMUM SPEED

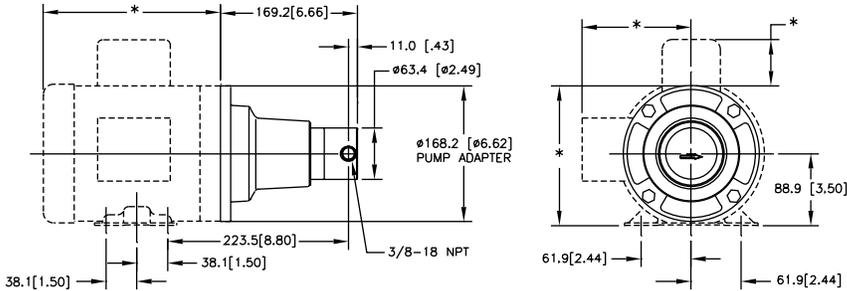
- ▶ 4000 rpm

## PUMP CONSTRUCTION

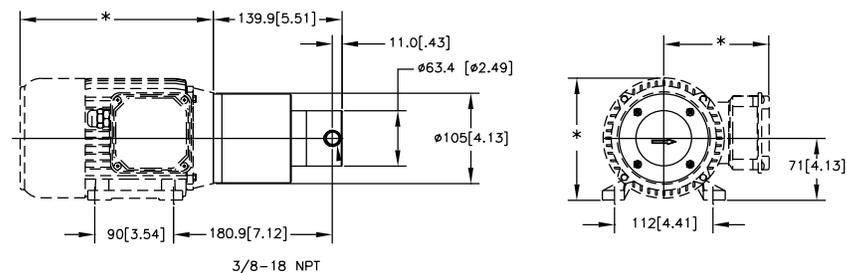
- ▶ Magnetic drive gear pump
- ▶ Cavity style
- ▶ Three helical gears
- ▶ Stationary shafts
- ▶ O-ring seal

## DIMENSIONS

### NEMA 56C MOUNT



### IEC 71-B14-MOUNT



\*Units: mm[in]. Nominal dimensions shown

## 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



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