

# Series GA/GAH

## Magnetic Drive Gear Pump

**MICROPUMP®**

When you need a low-flow pump that delivers high-performance in a small package, Series GA is an excellent solution. Series GA pumps provide precise, pulseless flow, and feature the patented Micropump® suction shoe design that allows the pumps to self-compensate for wear ensuring near zero slip and a long pump life. Series GAH extends Series GA to high-system pressure applications making Series GA pumps ideal for a wide-range of low-flow applications.

### 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 GA/GAH 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 GA/GAH has a long life in aggressive environments.

### Easy to Service

Series GA/GAH pumps are easy to service using a Micropump® service kit and simple hand tools.

### High-System Pressure Capability

Series GAH pumps are designed to withstand system pressures up to 5,000 psi (345 bar).



### 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, IEC, I-Drive®, 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 6,000 rpm

- ▶ 552 mL/min (0.146 gpm)

Displacement

- ▶ Gear Set X21 V21 T23
- ▶ mL/rev 0.017 0.042 0.092

Maximum Rated Differential Pressure  
(with Hex Drive)

- ▶ 75 psi (5.2 bar)

Maximum Rated System Pressure

- ▶ Standard Series GA 300 psi (21 bar)
- ▶ High-Pressure Series GAH 5,000 psi (345 bar)

Temperature Range

- ▶ -46–177 °C (-50–350 °F)

Viscosity Range

- ▶ 0.2–1,500 cps

Maximum Speed

- ▶ 8,000 rpm

## Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Suction shoe style
- ▶ Spur gears
- ▶ Stationary shafts
- ▶ PTFE bevel or o-ring seal

## Wetted Materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ Carbon Graphite
- ▶ PEEK™
- ▶ PPS

Static Seals

- ▶ Viton®
- ▶ PTFE

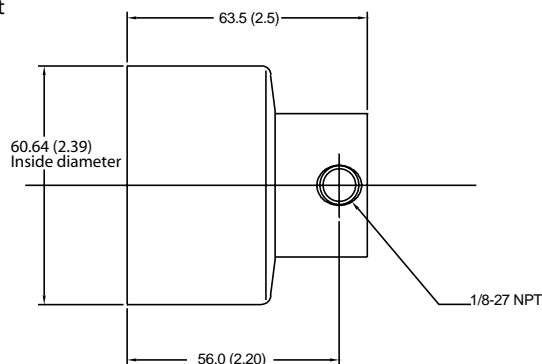
## Magnets

Driven and driving

- ▶ Ferrite

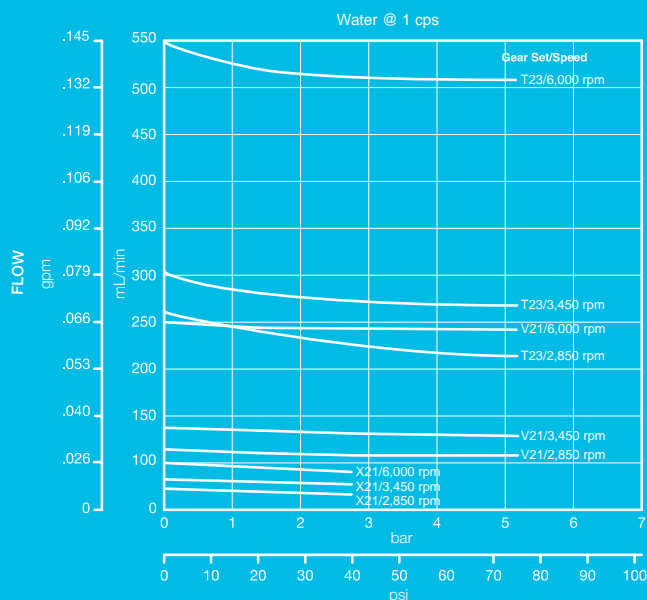
## Dimensions

A-Mount



Units: mm (in.) Nominal dimensions shown.

## Pump Performance



DIFFERENTIAL PRESSURE

Higher differential pressures available - consult factory  
Maximum differential pressure 7 bar (100 psi) with I-Drive option only

ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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# Series GB

## Magnetic Drive Gear Pump

**MICROPUMP®**

When you need a low-flow pump that delivers high-performance in a small package, Series GB is an excellent solution. Series GB 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 GB 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 GB 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 GB has a long-life in aggressive environments.

### Easy to Service

Series GB 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 internal bypass
- ▶ 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 5,500 rpm

- ▶ 6,435 mL/min (1.70 gpm)

Displacement

- ▶ Gear Set P23 P25 P35
- ▶ mL/rev 0.26 0.58 1.17

Maximum Rated Differential Pressure

- ▶ 125 psi (8.7 bar)

Maximum Rated System Pressure

- ▶ 300 psi (21 bar)

Temperature Range

- ▶ -46–177 °C (-50–350 °F)

Viscosity Range

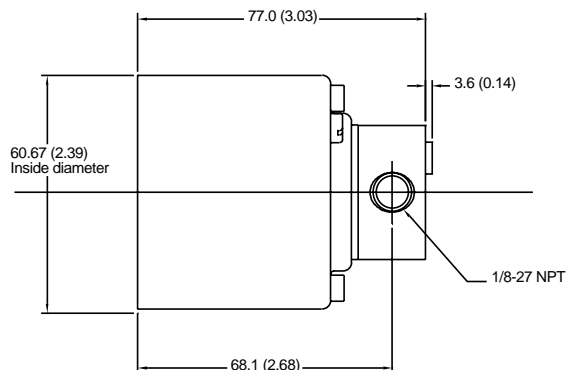
- ▶ 0.2–1,500 cps

Maximum Speed

- ▶ 10,000 rpm

## Dimensions

A-Mount



Units: mm (in.) Nominal dimensions shown.

## Pump Construction

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

## Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PEEK™
- ▶ PPS

Static Seals

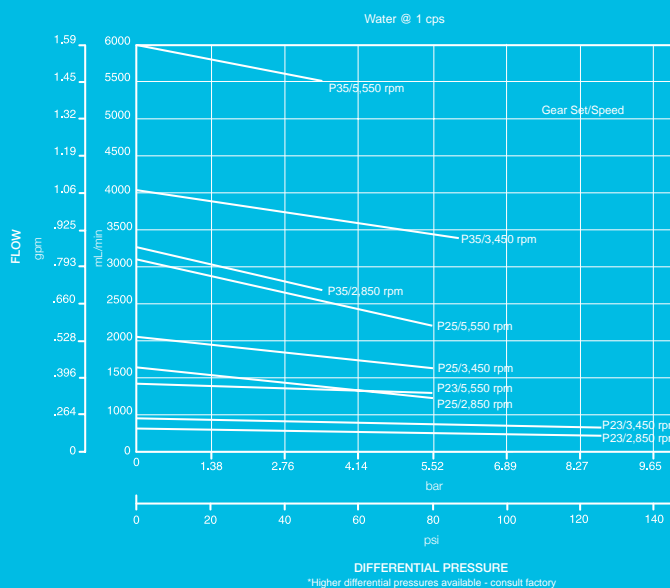
- ▶ Viton®
- ▶ EP

## Magnets

Driven and driving

- ▶ Ferrite
- ▶ Rare earth

## Pump Performance



ACTUAL PERFORMANCE MAY VARY.

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# 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

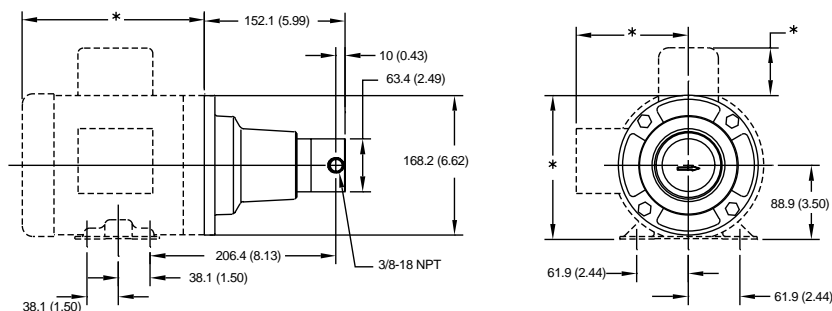
## Magnets

Driven and driving

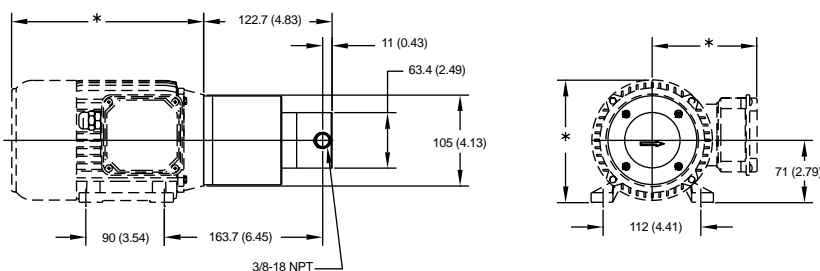
- ▶ Ferrite
- ▶ Rare earth

## Dimensions

NEMA 56C Mount

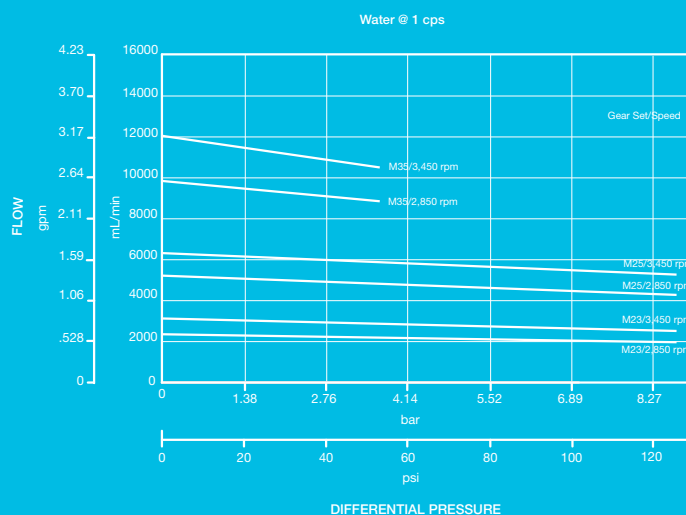


IEC 71-B14-mount



Units: mm (in.) Nominal dimensions shown.

## Pump Performance



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# 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® 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.



Precision Engineered Fluidics™

## Performance Summary

Flow Rate at 3,450 rpm

- ▶ 12,006 mL/min (3.17 gpm)

Displacement

- ▶ Gear Set M35
- ▶ mL/rev 3.48

Maximum Rated Differential Pressure

- ▶ 125 psi (8.7 bar)

Maximum Rated System Pressure

- ▶ 1,500 psi (103 bar)

Temperature Range

- ▶ -46–121 °C (-51–250 °F)

Viscosity Range

- ▶ 0.5–1,500 cps

Maximum Speed

- ▶ 4,000 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

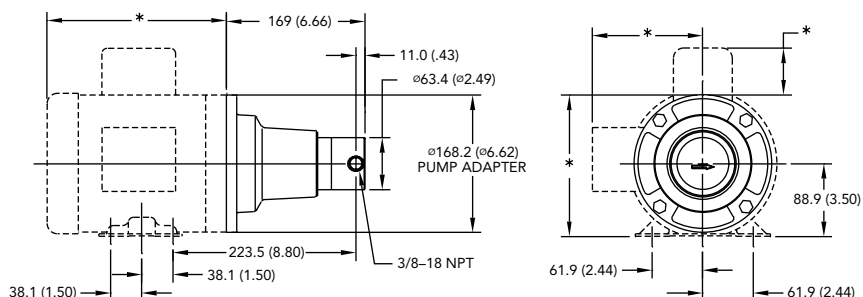
- ▶ Ferrite
- ▶ Rare earth

## Product Enhancements

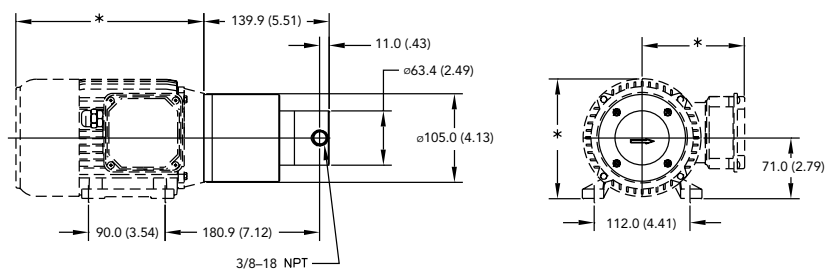
Hybrid/abrasive resistant materials

## Dimensions

NEMA 56C Mount

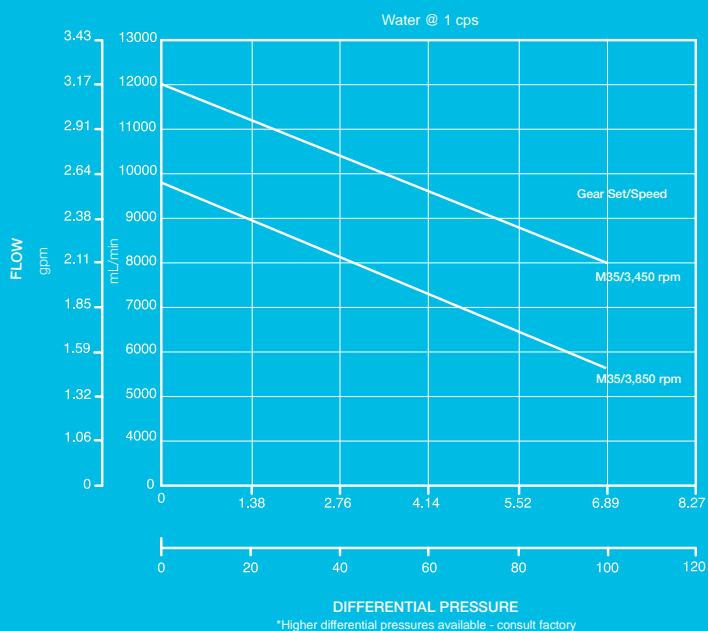


IEC 71-B14-mount



Units: mm (in.) Nominal dimensions shown.

## Pump Performance



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# Series GJ

## Magnetic Drive Gear Pump

**MICROPUMP®**

Micropump® Series GJ pumps deliver exceptional pumping performance for any high-precision application. These compact magnetically driven gear pumps feature a cavity style design with dynamic seals to ensure leak-free performance. Series GJ pumps offer excellent chemical resistance, abrasive fluid pumping, and smooth pulseless fluid delivery. Available in standard and custom configurations, Series GJ pumps are ideal for a wide-range of fluidic applications.

### 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 GJ is easily incorporated into the design of many systems.

### Leak-Free

The magnetic drive and static PTFE seals 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 GJ has a long-life in aggressive environments.

### Easy to Service

Series GJ 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:

- ▶ Three standard gear sizes
- ▶ Multiple gear and body materials
- ▶ Optional internal bypass
- ▶ Optional high-torque magnets
- ▶ NEMA, IEC, I-Drive®, 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 5,500 rpm

- ▶ 5,217 mL/min (1.38 gpm)

Displacement

- ▶ Gear Set N21 N23 N25
- ▶ mL/rev 0.316 0.64 0.91

Maximum Rated Differential Pressure

- ▶ 80 psi (5.6 bar)

Maximum Rated System Pressure

- ▶ 300 psi (21 bar)

Temperature Range

- ▶ -46–121 °C (-50–250 °F)

Viscosity Range

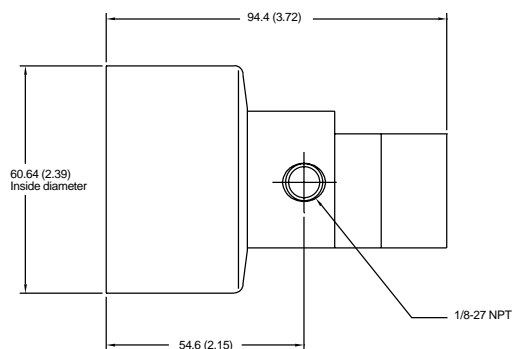
- ▶ 0.2–1,500 cps

Maximum Speed

- ▶ 10,000 rpm

## Dimensions

A-Mount



Units: mm (in.) Nominal dimensions shown.

## Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Cavity style
- ▶ Two helical, shafted gears
- ▶ Sleeve bushings
- ▶ PTFE bevel or o-ring seal

## Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PEEK™
- ▶ PPS
- ▶ PTFE

Static seals

- ▶ PTFE

## Magnets

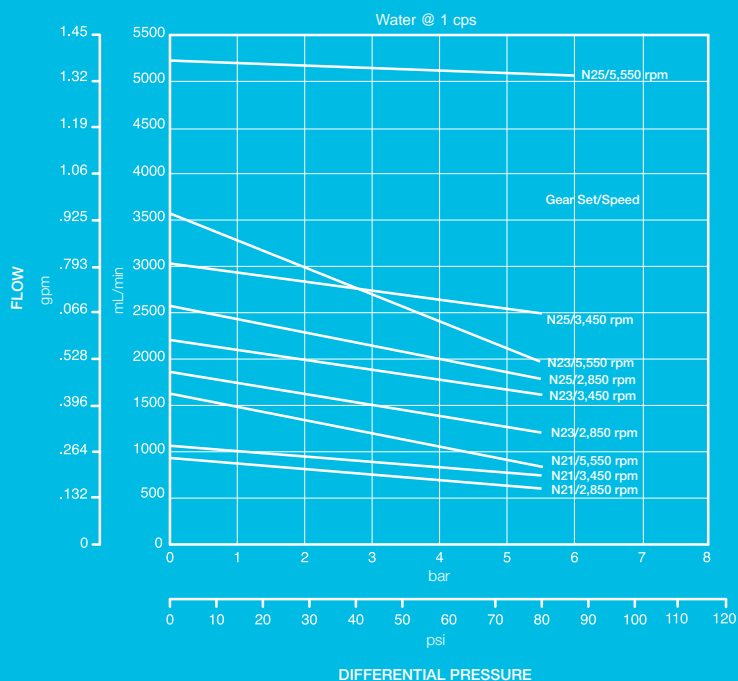
Driven and driving

- ▶ Ferrite
- ▶ Rare earth

## Product Enhancements

Internal bypass

## Pump Performance



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# Series GK

## Magnetic Drive Gear Pump

**MICROPUMP®**

Micropump® Series GK pumps deliver exceptional pumping performance for any high-precision application. These compact magnetically driven gear pumps feature a cavity style design with benefits such as chemical resistance, smooth, pulseless delivery, and high-system pressure capability. Available in standard and OEM configurations, Series GK pumps are ideal for a variety of fluid handling applications.

### 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 GK 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 GK has a long-life in aggressive environments.

### Easy to Service

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

### High-System Pressure Capability

Optional versions of the Series GK are designed to withstand system pressures up to 1,500 psi (103 bar).



### Wide Range of Options and Configurations

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

- ▶ Magnetic drive gear pump
- ▶ Two helical, shafted gears
- ▶ Sleeve bushings
- ▶ O-ring seals
- ▶ 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

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Precision Engineered Fluidics™

## Performance Summary

Flow Rate at 3,450 rpm

- ▶ 9,500 mL/min (2.51 gpm)

Displacement

- ▶ Gear Set K23
- ▶ mL/rev 3.15

Maximum Rated Differential Pressure

- ▶ 60 psi (4.2 bar)

Maximum Rated System Pressure

- ▶ 1,500 psi (103 bar)

Temperature Range

- ▶ -46–54 °C (-50–130 °F)

Viscosity Range

- ▶ 0.2–1,500 cps

Maximum Speed

- ▶ 4,000 rpm

## Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Cavity style
- ▶ Two helical, shafted gears
- ▶ Sleeve bushings
- ▶ O-ring seals

## Wetted materials

Base Materials

- ▶ 316 stainless steel

Gears

- ▶ PTFE

Static seals

- ▶ PTFE

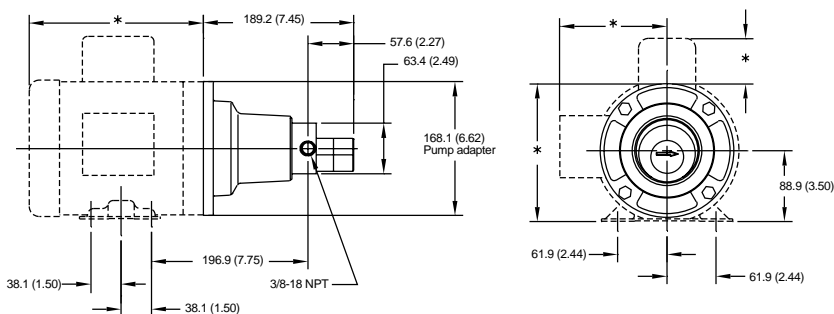
## Magnets

Driven and driving

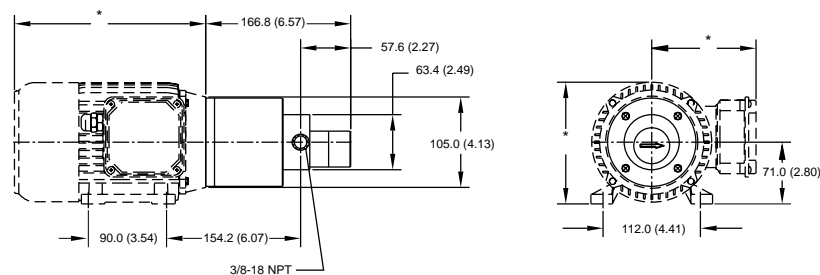
- ▶ Ferrite
- ▶ Rare earth

## Dimensions

### NEMA 56C Mount

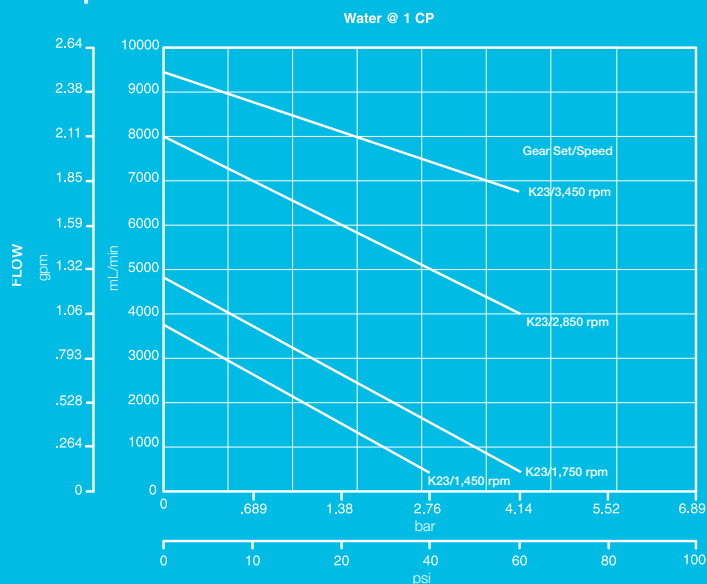


### IEC 71-B14 Mount



Units: mm (in.) Nominal dimensions shown.

## Pump Performance



DIFFERENTIAL PRESSURE  
\*Higher differential pressures available - consult factory

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# Series GL

## Magnetic Drive Gear Pump

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### 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 GL 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 GL has a long-life in aggressive environments.

### Easy to Service

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

### High-System Pressure Capability

Optional versions of the Series GL are designed to withstand system pressures up to 1,500 psi (103 bar).



### Wide Range of Options and Configurations

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

- ▶ Three standard gear sizes
- ▶ Multiple gear, body, and o-ring materials
- ▶ Optional 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 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™

- ▶ 3,450 rpm

- ▶ O-ring seals

- ▶ PTFE

- ▶ Rare earth

- ▶ High-system pressure

Units: mm (in.) Nominal dimensions shown

Units: mm (in.) Nominal dimensions shown.

\*Higher differential pressures available - consult factory

CE UL Ex



# Series GM

## Magnetic Drive Gear Pump

**MICROPUMP®**

Micropump® Series GM 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 delivery, and high-system pressure capability. Available in standard and custom configurations, Series GM pumps keep your operations flowing 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 GM 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 GM has a long-life in aggressive environments.

### Easy to Service

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

### High System Pressure Capability

Optional version of the Series GM are designed to withstand system pressures up to 1,000 psi (69 bar).



### 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
- ▶ High-torque magnets
- ▶ Special bushing materials
- ▶ NEMA and IEC drive mounts

### Innovative Designs

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### 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 1,750 rpm

- ▶ 21,350 mL/min (5.6 gpm)

Displacement

- ▶ Gear Set G25
- ▶ mL/rev 12.2

Maximum Rated Differential Pressure

- ▶ 125 psi (8.7 bar)

Maximum Rated System Pressure

- ▶ 1,000 psi (69 bar)

Temperature Range

- ▶ -46–121 °C (-50–250 °F)

Viscosity Range

- ▶ 0.2–2,500 cps

Maximum Speed

- ▶ 1,750 rpm

## Pump Construction

- ▶ Magnetic drive gear pump
- ▶ Cavity style
- ▶ Helical, shafted gears
- ▶ Sleeve bushings
- ▶ O-ring seals

## Wetted materials

Base material

- ▶ 316 stainless steel

Gears

- ▶ PEEK™

Static seals

- ▶ Viton®

## Magnets

Driven and driving

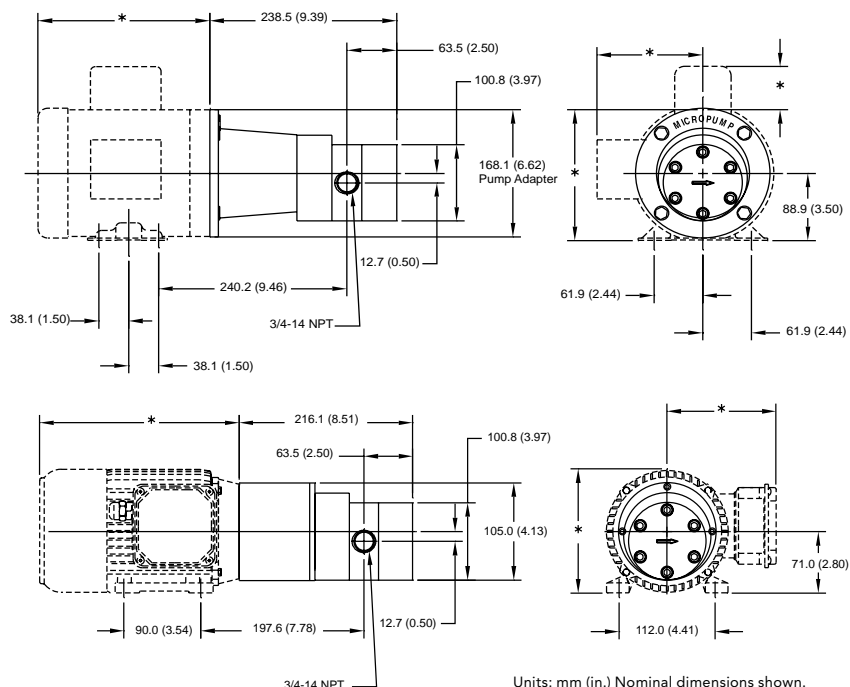
- ▶ Rare earth

## Product Enhancements

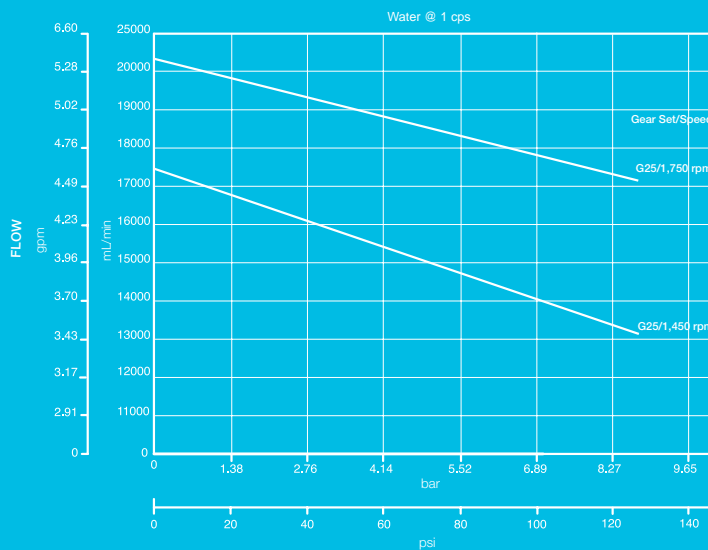
- ▶ High-system pressure

## Dimensions

NEMA 56C Mount



## Pump Performance



ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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PEEK polymer is a trademark of Victrex plc.

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# Series GN

## Magnetic Drive Gear Pump

**MICROPUMP®**

Micropump® 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, 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.

### 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 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 1,500 psi (103 bar).



### 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
- ▶ 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 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 1,750 rpm

- ▶ 42,875 mL/min (11.38 gpm)

Displacement

- ▶ Gear Set G35
- ▶ mL/rev 24.5

Maximum Rated Differential Pressure

- ▶ 100 psi (6.9 bar)

Maximum Rated System Pressure

- ▶ 1,500 psi (103 bar)

Temperature Range

- ▶ -46–121 °C (-50–250 °F)

Viscosity Range

- ▶ 0.2–2,500 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

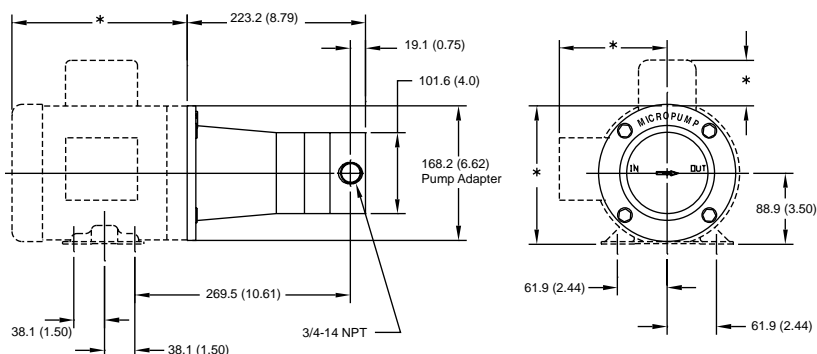
- ▶ Rare earth

## Product Enhancements

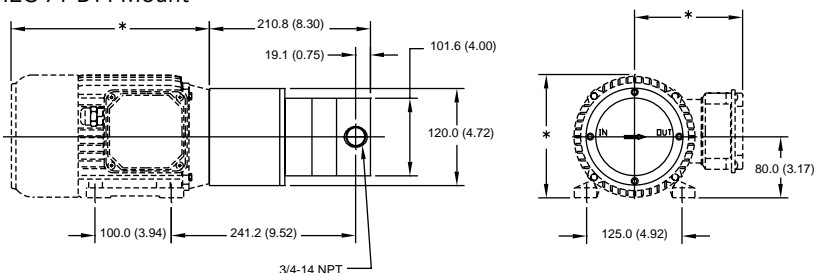
- ▶ High-system pressure

## Dimensions

### NEMA 56C Mount

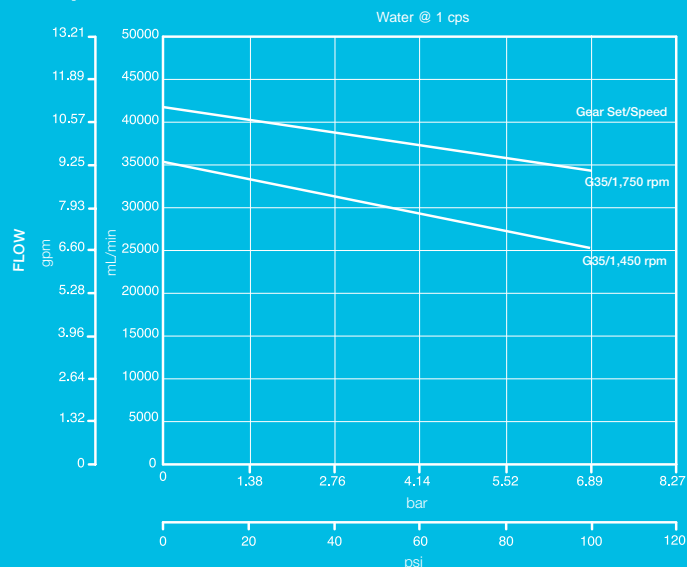


### IEC 71-B14 Mount



Units: mm (in.) Nominal dimensions shown.

## Pump Performance



\*Higher differential pressures available - consult factory

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