

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

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

- ▶ 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

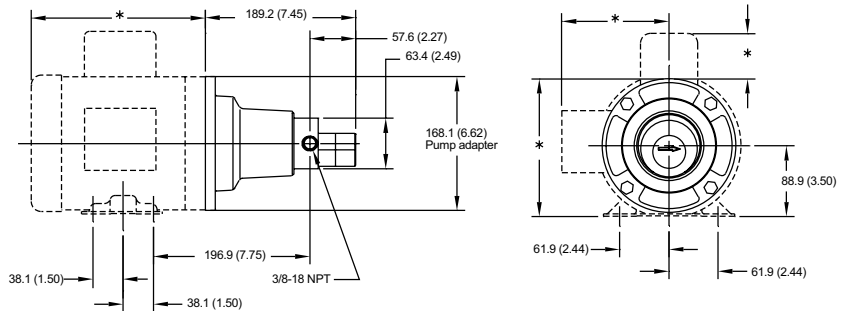
Magnets

Driven and driving

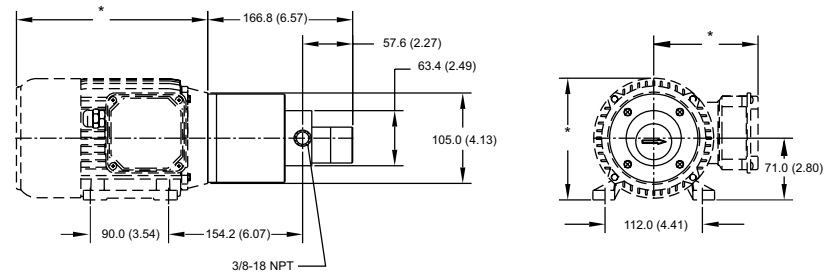
- ▶ Ferrite
- ▶ Rare earth

Dimensions

NEMA 56C Mount

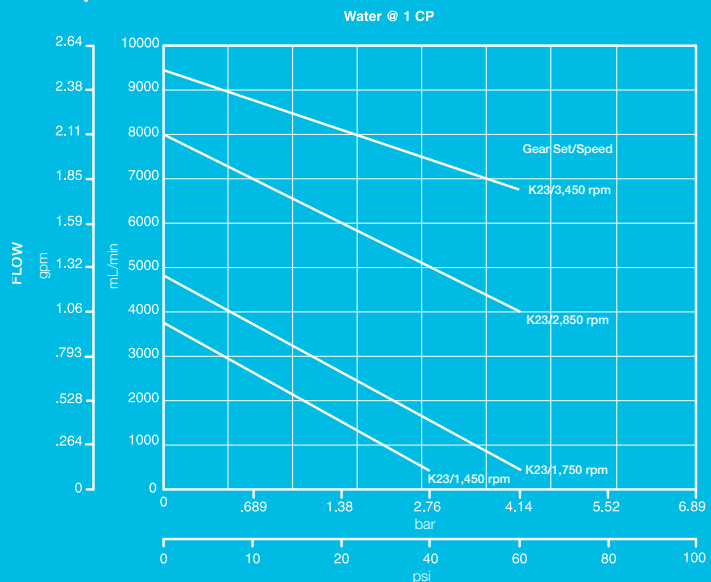


IEC 71-B14 Mount



Units: mm (in.) Nominal dimensions shown.

Pump Performance



DIFFERENTIAL PRESSURE
*Higher differential pressures available - consult factory

ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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