

Magnetic Drive Gear Pump

SERIES 10K



Series 10K The Series 10K magnetic drive gear

pump from Micropump is the result of years of

experience developing and manufacturing

the most advanced pumping technology.

These cavity style gear pumps offer

advantages like small size, leak-free

performance, and exceptionally easy

servicing. For high pressure jobs, choose

the Series 10K with high system pressure capabilities

to 103 Bar (1500 psi). Available in a wide range of chemically resistant materials and custom

configurations, Series 10K pumps have the power to handle your toughest requirements.



Small Size

The smaller package size of the Series 10K delivers performance that is usually found only in much larger pumps.

Leak-Free

The magnetic drive and O-ring seals keep the fluid securely inside the pump and potential contaminants out.

Smooth Pulseless Delivery

Positive displacement, helical gears provide smooth, accurate fluid delivery that is proportional to motor speed.

Chemically Resistant

An extensive range of wetted material options ensure compatibility with a wide range of chemicals.

Easy to Service

Series 10K pumps are easy to service using a Micropump service kit and simple hand tools.

Wide Range of Options

Product design offers the flexibility to configure the product to your specific needs. Some options include:

- Multiple gear, body, and O-ring materials
- High torque magnets
- NEMA and IEC drive mounts

Advanced Pump Technology

Micropump uses the latest engineering tools and manufacturing equipment to produce the most advanced pumping solutions available. Products are developed using state-of-the-art CAD, Finite Element Analysis (FEA), and rapid prototyping tools. Precision CMM and CNC manufacturing equipment ensure the highest level of product quality.

Proven Reliability

Over 40 years of experience solving the most difficult pumping problems go into the design and manufacture of every Micropump pump, ensuring the most reliable pumping solution available.

OEM Configurations

Series 10K pumps can be customized to meet your individual requirements.

High System Pressure Capability

Optional versions of the Series 10K are designed to withstand system pressures up to 103 Bar (1500 psi).



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Performance Summary

Flow Rate at 1750 rpm	
42 L/min	11.1 gpm
Displacement (ml/rev)	
Gear Set	G35
ml/rev	24.5
Maximum Differential Pressure	
6.9 Bar	100 psi
Maximum System Pressure	
103 Bar	1500 psi
Temperature Range	
-46 to 121° C	-50 to 250° F
Viscosity Range	Maximum Speed
0.2 to 2500 cps	1750 rpm

Pump Construction

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

Wetted Materials

- Base material
 - 316 stainless steel
 - Alloy 20
 - Titanium
 - Hastelloy C-276®
 - Hastelloy B-2®
- Gears
 - PEEK
 - Teflon®
- Static seals
 - Viton®
 - Ethylene propylene
 - Buna N
 - TEV (Teflon encapsulated Viton)
 - Kalrez®

Magnets

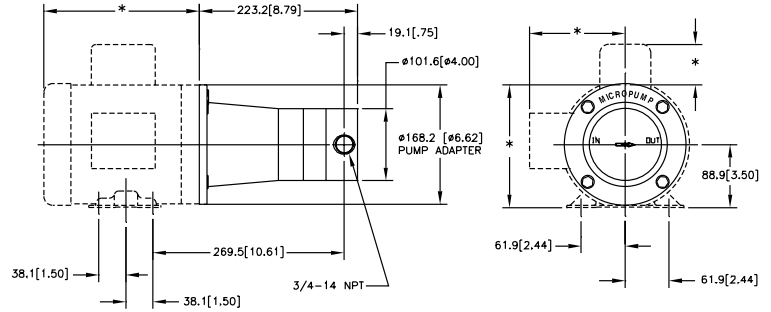
- Driven and driving
- Rare earth

Product Enhancements

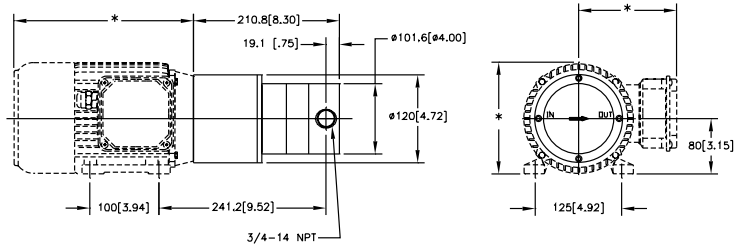
- High system pressure
- Carbon bushings
- Hardened shafts
- ANSI flanges

Dimensions

NEMA 56C Mount

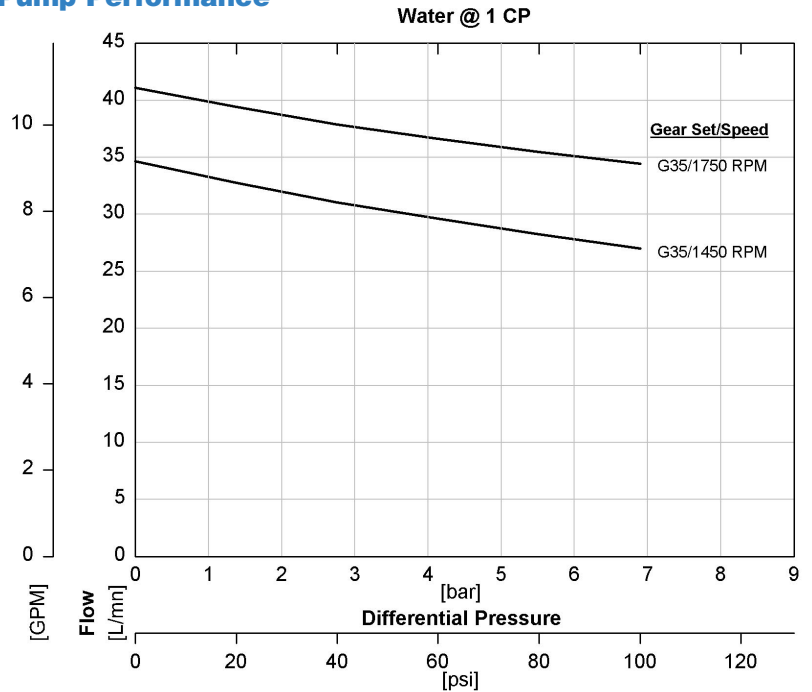


IEC 71-B14 Mount

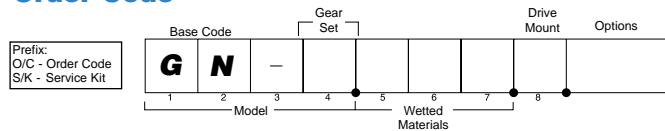


Units: mm[in]. Nominal dimensions shown.

Pump Performance



Order Code



ACTUAL PERFORMANCE MAY VARY

Specifications are subject to change without notice.

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MICROPUMP, INC.

A Unit of IDEX Corporation

Phone: (360) 253-2008 • (800) 671-6269
Fax: (360) 253-2401 • (800) 222-9565

MICROPUMP LIMITED

A Subsidiary of Micropump, Inc.

Phone: + 44 (0) 1480 356900
Fax: + 44 (0) 1480 356920

info@micropump.com
www.micropump.com

