

Magnetic Drive Gear Pump

 **Series 5500** For reliable performance you

can trust, the Series 5500 magnetic drive gear

pump from Micropump is the solution

you've been waiting for. With its small

size and high-powered performance,

Series 5500 can meet the needs of a

wide range of applications, and is available

in a high system pressure version that can

withstand pressures to 103 Bar (1500 psi). These

precision, cavity style gear pumps deliver leak-free operation and smooth, pulseless delivery

with a wide range of optional features, configurations, and chemically resistant materials.



Small Size

The smaller package size of the Series 5500 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 5500 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:

- Three standard gear sizes
- Multiple gear, body, and O-ring materials
- High torque magnets
- Special bushing materials
- 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 5500 pumps can be customized to meet your individual requirements.

High System Pressure Capability

The Series 5500 is designed to withstand system pressures up to 103 Bar (1500 psi).

SERIES 5500

Magnetic Drive Gear Pump

Performance Summary

Flow Rate at 1750 rpm	5.6 gpm		
21 L/min			
Displacement (ml/rev)			
Gear Set	G21	G23	G25
ml/rev	7.3	9.8	12.2
Maximum Differential Pressure			
8.7 Bar	125 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
- 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
 - Kalrez®
 - TEV (Teflon encapsulated Viton)

Magnets

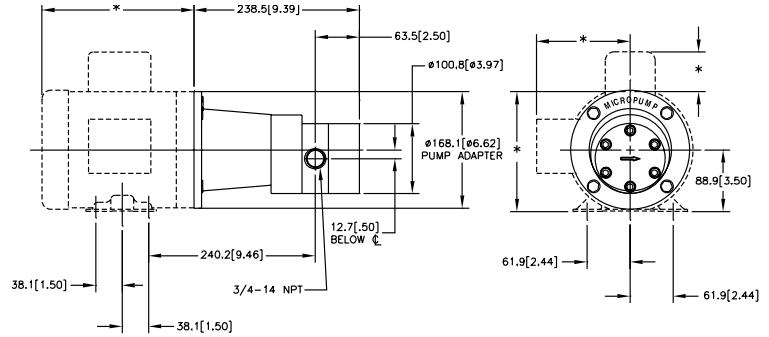
- Driven and driving
- Rare earth

Product Enhancements

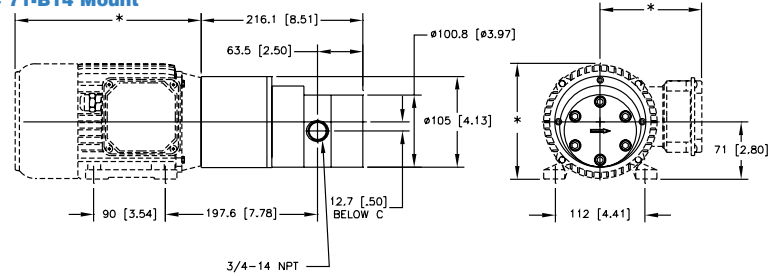
- High system pressure
- Carbon bushings
- Hardened shafts
- ANSI flanges
- PEEK & carbon wear plates

Dimensions

NEMA 56C Mount



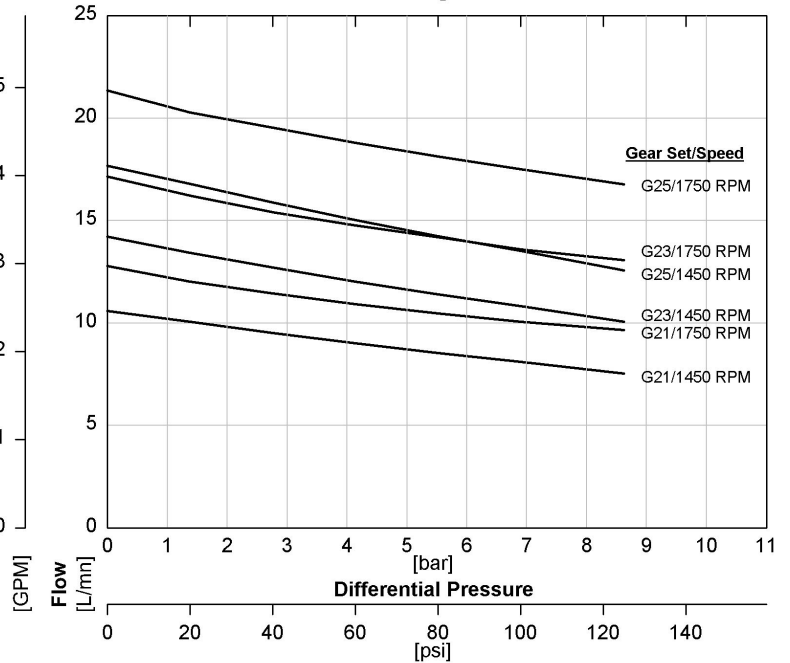
IEC 71-B14 Mount



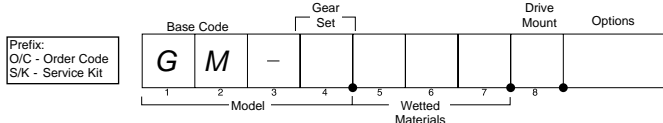
Units: mm[in]. Nominal dimensions shown.

Pump Performance

Water @ 1 CP



Order Code



ACTUAL PERFORMANCE MAY VARY

Specifications are subject to change without notice.

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