

Magnetic Drive Gear Pump

SERIES 114

 **Series 114** With the power to handle the most

advanced pumping needs, the Series 114 from

Micropump features a compact size, pulse-

less delivery, and high-precision

performance. A cavity style design

delivers benefits like leak-free

performance and chemical

resistance, making the Series 114

ideal for a variety of fluid handling applications.

Durable and dependable, the Series 114 also ensures a tailor-made solution for

your specific needs with a wide range of available options, materials, and configurations.



Small Size

The smaller package size of the Series 114 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 114 pumps are easy to service using a Micropump service kit and simple hand tools.

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 114 pumps can be customized to meet your individual requirements.

High System Pressure Capability

Optional versions of the Series 114 are designed to withstand system pressures up to 103 Bar (1500 psi).



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Performance Summary

Flow Rate at 3450 rpm	2.9 gpm
10.9 L/min	
Displacement (ml/rev)	
Gear Set	K23
ml/rev	3.15
Maximum Differential Pressure	
4.2 Bar	60 psi
Maximum System Pressure	
103 Bar	1500 psi
Temperature Range	
-46 to 54° C	-50 to 130° F
Viscosity Range	Maximum Speed
0.2 to 1500 cps	4000 rpm

Pump Construction

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

Wetted Materials

- Base material
 - 316 stainless steel
- Gears
 - Teflon®
- Static seals
 - Teflon
 - Viton®

Magnets

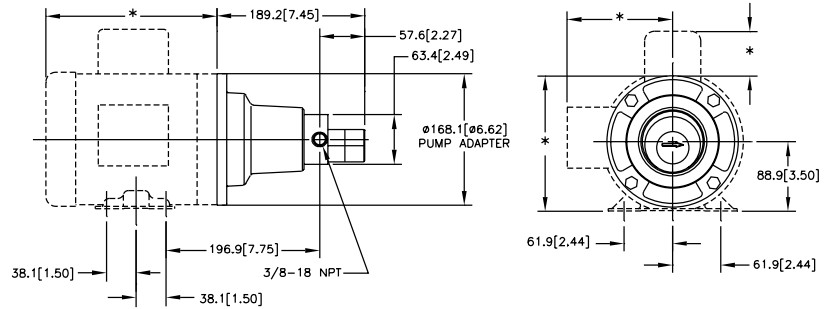
- Driven and driving
 - Ferrite

Product Enhancements

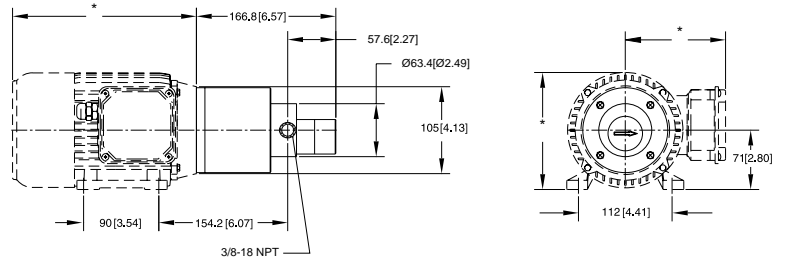
- Carbon bushings
- Deck ports

Dimensions

NEMA 56C Mount



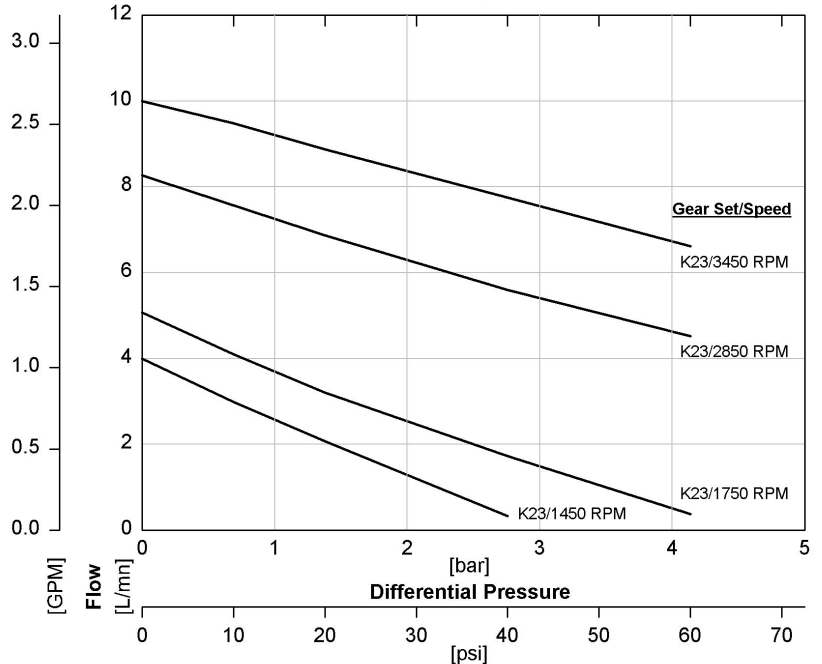
IEC 71-B14 Mount



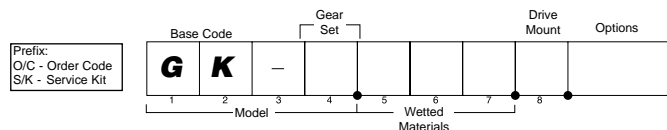
Units: mm[in]. Nominal dimensions shown.

Pump Performance

Water @ 1 CP



Order Code



ACTUAL PERFORMANCE MAY VARY

Specifications are subject to change without notice.

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