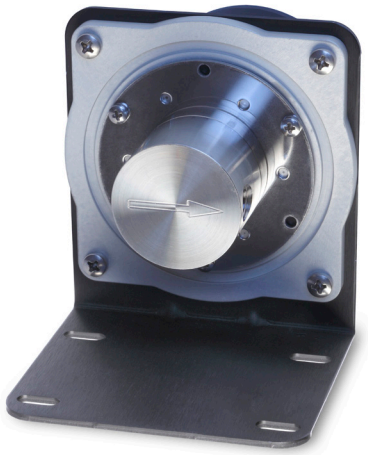
Product Data Sheet

Series GAF

Extended Differential Pressure Range Electromagnetic Drive

MICROPUMP®

When you need a low-flow, high-differential pressure, long-life pump in a small high-performance package, Series GAF is an excellent solution. The Series GAF pump provides an extended maximum differential pressure of up to 250 psi (17 bar) while maintaining the features that have made the Series GA so popular. Features which include precise, pulseless flow, wear compensation for near zero slip and extended life, and a magnetic drive that eliminates the need for leak-prone shaft seals.



High Differential Pressure

Series GAF pumps were developed with advanced design processes and materials to support a higher range of differential pressure applications - up to 250 psi (17 bar). At maximum differential pressure Series GAF pumps maintain the outstanding pumping characteristics and extended life typical of all Series GA pumps.

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 GAF pump is coupled with the IEG electromagnetic I-Drive and is easily incorporated into many system designs.

Isolated Fluid Path

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

Smooth Pulseless Delivery

Precision pumping elements provide fluid delivery with continuous positive displacement and often reduce system complexity by eliminating system pressure spikes and the need for additional devices such as pulse dampeners.

Chemically Resistant

Series GAF pumps have a long life in aggressive environments.

Easy to Service

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

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 tools and are rigirously tested to ensure the highest level of product quality and reliability.

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Performance Summary

Flow Rate at 6000 rpm
- 550 mL/min (0.146 gpm)

Displacement
- Gear Set T23
- mL/rev 0.092

Maximum Differential Pressure
- 250 psi (17 bar)

Maximum System Pressure
- 300 psi (21 bar)

Temperature Range
- -46 to 80 °C (-50 to 176 °F)

Viscosity Range
- 0.2–1500 cps

Specs

	I-Drive IEG
Speed Range	500–6000 rpm
Torque (@ 3500 rpm)	15 oz-in (106 mNm)
Voltage	20–30V DC
Power (@ 24V)	70W
Current Input	3 A max
Speed Control	0–5V DC
Tachometer Output	0–5V square wave (rpm=X2)
Pump/Drive Weight	0.96 kg (2.1 lbs)

Pump Construction

- Magnetic drive gear pump
- Suction shoe style
- Spur gears
- Stationary shafts
- O-ring seal

Magnets

- Rare earth (PEEK encapsulated)

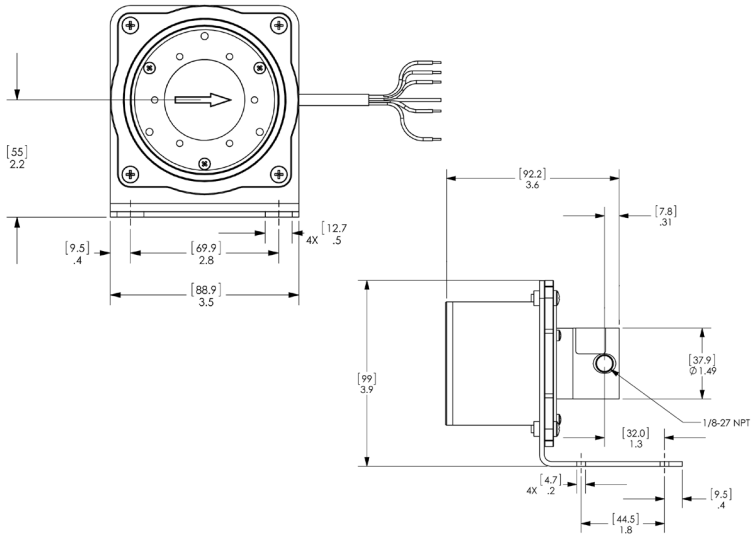
Wetted Materials

Base material
- 316 stainless steel

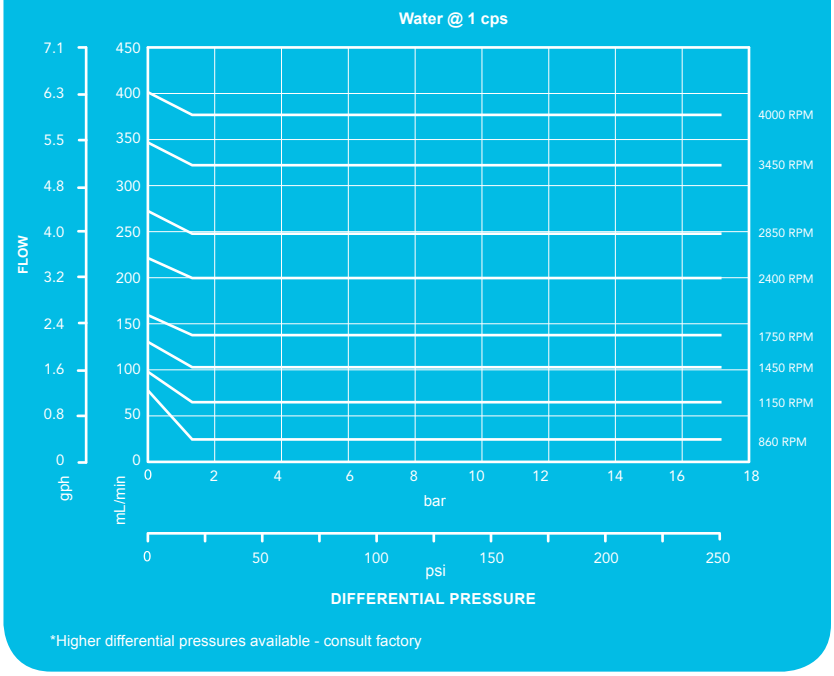
Gears
- PEEK

Static Seals
- EPDM

Dimensions



Pump Performance



*Higher differential pressures available - consult factory

ACTUAL PERFORMANCE MAY VARY.

Specifications are subject to change without notice.

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