When you need a low-flow pump that delivers high performance in a small package, the GB Series is an excellent solution.

The GB Series is part of the patented suction shoe gear pump design offered exclusively by Micropump. The suction shoe technology offers best in class performance with industry-leading volumetric efficiency for fluid movement.

**RELIABILITY**
GB Series pumps self-compensate for wear, ensuring near zero slip and a longer pump life. The suction shoe technology delivers even longer reliability with higher differential pressures when compared to cavity style designs.

**WIDE TEMPERATURE RANGE**
Micropump’s GB Series features the same hydraulic performance from the lowest temperature, even freezing, to the highest temperature allowed by the component materials.

**WIDE RANGE OF CONFIGURATIONS**
GB Series can be customized to meet your applications including the optional internal bypass.

**MAGNETIC DRIVE GEAR PUMP**

![GB SERIES SUCTION SHOE TECHNOLOGY](image)

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*Units: mm(in). Nominal dimensions shown.*

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**A MOUNT**

- Inside diameter: 60.67(2.38)
- 1/8-27 NPT

Units: mm(in). Nominal dimensions shown.
PUMP FLOW RANGE
(Based on Constant Speed Curves at 4,000 RPM)

PERFORMANCE SUMMARY
FLOW RATE AT 5500 RPM
- 6.4 L/min (1.70 US gpm)

DISPLACEMENT
- Gear Set: P23, P25, P35
- mL/rev: 0.26, 0.58, 1.17
- US gal/1000 rev: 0.07, 0.15, 0.31

MAXIMUM RATED DIFFERENTIAL PRESSURE
- 8.6 Bar (125 psi)

MAXIMUM RATED SYSTEM PRESSURE
- 21 Bar (300 psi)

TEMPERATURE RANGE
- -46 to 177 °C (-50 to 351 °F)

VISCOSITY RANGE
- 0.5 to 1500 cps

MAXIMUM SPEED
- 5500 rpm

PUMP CONSTRUCTION
- Suction shoe style
- Two or three helical gears
- Stationary shafts
- O-ring seal

WETTED MATERIALS
BASE MATERIAL
- 316 stainless steel
- Alloy 20*
- Titanium*
- Hastalloy C-276*

GEARS
- PEEK
- PPS

STATIC SEALS
- Viton
- TEV
- EP
- Kalrez

MAGNETS
- DRIVEN AND DRIVING
  - Ferrite
  - Rare earth*

PRODUCT ENHANCEMENTS
- Internal Bypass*
- 1/4 - 18 NPT Side Ports*

*Magnets: Ferrite, Rare earth

MAGNETIC GEAR PUMP FEATURES
SUCTION SHOE STYLE PUMPS
The suction shoe allows for consistent performance across a wide operating temperature range. The suction shoe pump, unlike any other gear pump on the market, self-adjusts on the job for reliable, pulseless flow, and features easier maintenance with less downtime than standard pumps.

SMOOTH PULSELESS DELIVERY
Positive displacement, precision gears provide consistent fluid delivery in continuous processes.

EASY TO SERVICE
Our pumps are easy to service using a Micropump® service kit and simple hand tools.

FLUID PATH INTEGRITY
The magnetic drive and static o-ring seal(s) keep the fluid securely inside the pump and potential contaminants out.

CHEMICALLY RESISTANT
Chemically inert materials for harsh environments.

ACTUAL PERFORMANCE MAY VARY. Specifications are subject to change without notice.