Micropump’s GA Series are the smallest, most compact size and offers the lowest displacement of the suction shoe family of pumps.

The GA 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.

SMALL SIZE
The miniature package size of the GA Series is easily incorporated into the design of many systems.

RELIABILITY
GA 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 GA Series features the same hydraulic performance from the lowest temperature, even freezing, to the highest temperature allowed by the component materials.

MAGNETIC DRIVE GEAR PUMP
PUMP FLOW RANGE
(Based on Constant Speed Curves at 4,000 RPM)

PERFORMANCE SUMMARY

FLOW RATE AT 5500 RPM
- 506 mL/min (0.134 US gpm)

DISPLACEMENT
- Gear Set: X21 V21 T23
- mL/rev: 0.017 0.042 0.092
- US gal/1000 rev: 0.045 0.01 0.02

MAXIMUM RATED DIFFERENTIAL PRESSURE
- 5.2 Bar (75 psi)

MAXIMUM RATED SYSTEM PRESSURE
- 21 Bar (300 psi)

TEMPERATURE RANGE
- -46 to 177 °C (-50 to 350 °F)

VISCOSITY RANGE
- 0.5 to 1500 cps

MAXIMUM RECOMMENDED SPEED
- 5500 rpm

PUMP CONSTRUCTION
- Suction shoe style
- Side Port
- Spur gears
- PTFE Seal

WETTED MATERIALS

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

GEARS
- Carbon Graphite
- PPS
- PEEK
- PEEK-Pin
- PPS-Pin

STATIC SEALS
- PTFE
- EP
- Viton
- Kalrez

MAGNETS
- DRIVEN AND DRIVING
  - Ferrite
  - Rare Earth

PRODUCT ENHANCEMENTS
- 1/4 - 18 NPT Side Ports

*Denotes customization or materials that may require minimum order quantities.

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.

LEAK FREE DESIGN
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.