

GC SERIES

SUCTION SHOE TECHNOLOGY



The GC Series offers the highest fluid displacement of the suction shoe gear pump family.

The GC 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.

HIGH-SYSTEM PRESSURE CAPABILITY

Designed to withstand maximum system pressures up to 103 Bar (1500 psi).

RELIABILITY

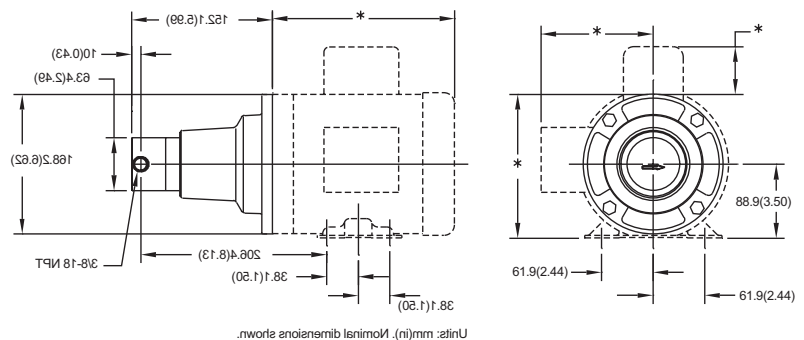
GC Series pumps self-compensate for wear, ensuring near zero slip and a longer pump life. The suction shoe technology delivers even longer reliability with higher differential pressures when compared to cavity style designs.

WIDE TEMPERATURE RANGE

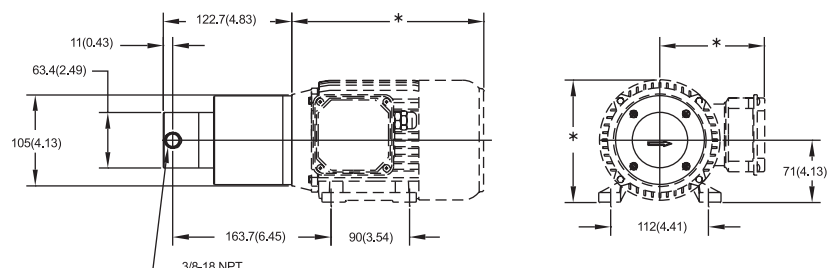
Micropump's GC Series features the same hydraulic performance from the lowest temperature, even freezing, to the highest temperature allowed by the component materials.

MAGNETIC DRIVE GEAR PUMP

NEMA 56C MOUNT



IEC 71-B14-MOUNT



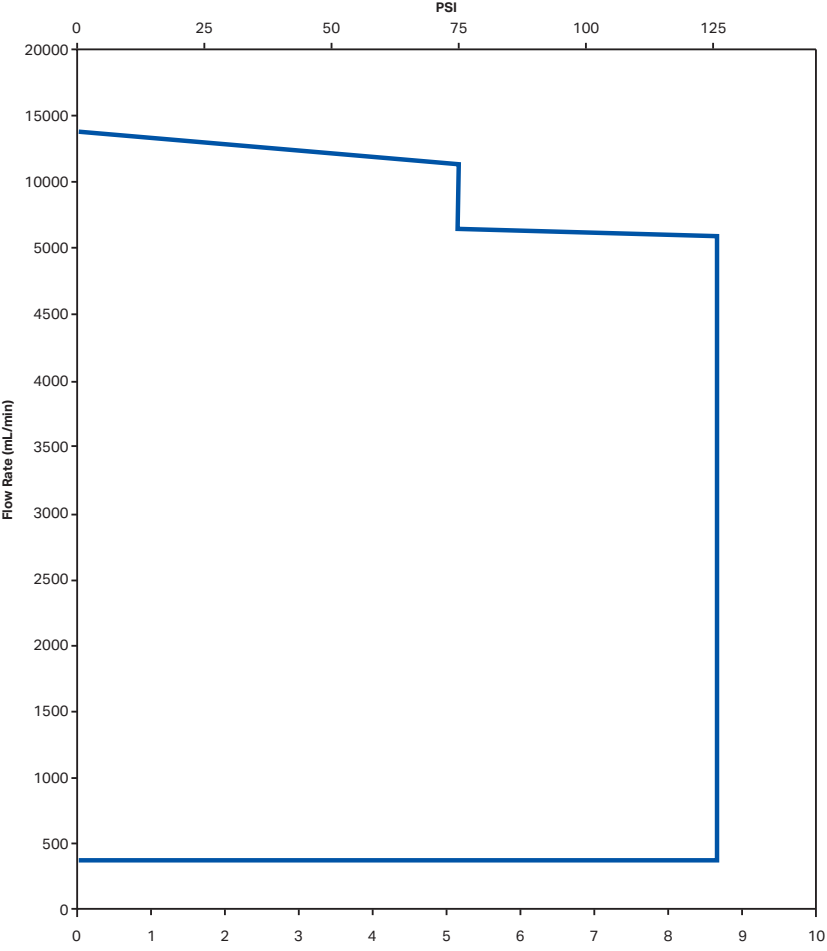
Units: mm(in). Nominal dimensions shown.

MICROPUMP®

micropump.com

PUMP FLOW RANGE

(Based on Constant Speed Curves at 4,000 RPM)



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.

PERFORMANCE SUMMARY

FLOW RATE AT 4000 RPM

- 13.9 L/min (3.7 US gpm)

DISPLACEMENT

Gear Set	M23	M25	M35
mL/rev	0.81	1.82	3.48
US gal/1000 rev	0.21	0.48	0.92

MAXIMUM RATED DIFFERENTIAL PRESSURE

- 8.6 Bar (125 psi)

MAXIMUM RATED SYSTEM PRESSURE

- 103 Bar (1500 psi)

TEMPERATURE RANGE

- 46 to 177 °C (-50 to 350 °F)

VISCOSITY RANGE

- 0.5 to 1500 cps

MAXIMUM SPEED

- 4000 rpm

PUMP CONSTRUCTION

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

WETTED MATERIALS

BASE MATERIAL

- 316 stainless steel
- Titanium
- Alloy 276
- Alloy 20

GEARS

- PEEK
- PPS

STATIC SEALS

- EP
- TEV
- Viton
- Kalrez

MAGNETS

DRIVEN AND DRIVING

- Ferrite
- Rare earth

PRODUCT ENHANCEMENTS

- 3/8 - 18(F) NPT Side Port

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