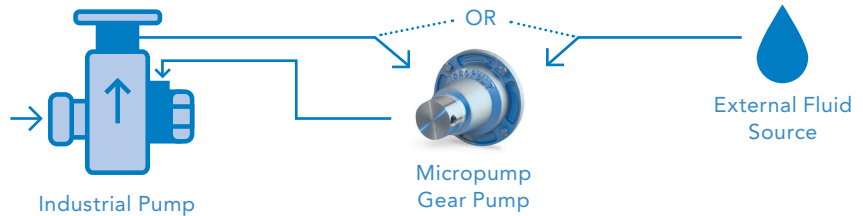




# Mechanical Seal Flush

Flushing of mechanical seals, on large industrial pumps, is used to extend the life of the seal by cleaning and/or cooling the seal. There are many methods for implementing seal flush, but all either recirculate fluid from various other points on the industrial pump (usually the output) or use an external source for the flushing stream.

In either case a step-up in pressure, and/or flow control may be required, and a small Micropump pump is often used for that purpose. Micropump gear pumps are well suited for this application because they provide a well-controlled, smooth flow, and are built of materials that provide chemical capability and the temperature range require for most applications.



*Micropump gear pumps provide differential pressure and flow control needed either for re-circulation or when using an external flushing stream.*

PUMPING REQUIREMENTS	MICROPUMP SOLUTIONS
FLOW RATE: 15 to 19 L/min (240 to 300 USG/hr)	We have variable speed pumps with flows from 0.405 to 26.6L/min (6.4 to 421 USG/hr)
MAX SYSTEM PRESSURE: 840 psi (59 bar)	Our pumps operate up to 1500 psi (103 bar) max system pressure
TEMPERATURE: Minimal flow variation over wide temperature range, room temperature to 300°F (149°C) max	Our unique Suction Shoe pumps are best-in-class for achieving minimum flow variation from -50°F (-46°C) to 350°F (177°C)
PRECISE FLOW CONTROL	We offer positive displacement gear pumps for precise, pulseless flow
MAINTAINABILITY	We offer Service Kits for easy field serviceability

# MICROPUMP PRODUCTS OPTIMIZED FOR THIS APPLICATION

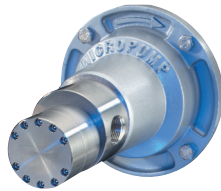
Micropump Series GC and GL pumps are commonly used for Seal Flush applications. The Series GC pump is a Suction Shoe style gear pump. Suction Shoe style gear pumps can operate over large temperature ranges and provide consistent flow with pump wear. The Series GL gear pump can provide higher flow rates when required. Both the Series GC and GL provide the flow control and smooth, pulseless flow required for these applications.



## SERIES GC

### MAGNETIC DRIVE GEAR PUMP

**FLOW RATE:** 0.405 to 13.9 L/min (6.4 to 221 USG/hr)  
**MAX DIFFERENTIAL PRESSURE:** 125 psi (8.6 Bar)  
**MAX SYSTEM PRESSURE:** 1500 psi (103 Bar)  
**WETTED MATERIALS:** 316SS, PEEK, PPS, Viton®, Kalrez®  
**DRIVES:** NEMA, IEC, drive mounts



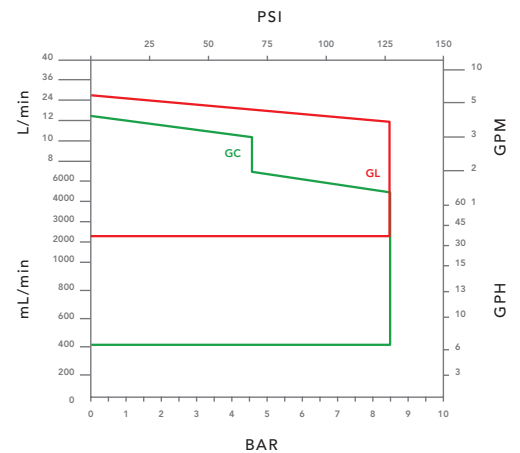
## SERIES GL

### MAGNETIC DRIVE GEAR PUMP

**FLOW RATE:** 2.3 to 26.6 L/min (36.5 to 421 USG/hr)  
**MAX DIFFERENTIAL PRESSURE:** 125 psi (8.6 Bar)  
**MAX SYSTEM PRESSURE:** 1500 psi (103 Bar)  
**WETTED MATERIALS:** 316SS, PTFE, PEEK  
**DRIVES:** NEMA, IEC, drive mounts

## PERFORMANCE SUMMARY

This chart indicates optimal operating ranges for recommended products.



## MICROPUMP ADVANTAGE

The unparalleled quality, performance record, reliability and long operating life of Micropump pumps and our extensive engineering expertise make Micropump a vital partner in this demanding market.



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