Series GD
MAGNETIC DRIVE GEAR PUMP

When you need a pump that delivers high-performance while pumping harsh, abrasive fluids, Series GD is an excellent solution. Micropump’s Series GD pumps provide precise, pulseless flow for applications like pipeline sampling by utilizing an abrasion resistant cavity style pump chamber and hardened steel gears. As a result, Series GD pumps offer extended life in aggressive environments.

CAVITY STYLE PUMPS
Cavity style pumps are excellent for wide-ranging inlet and outlet operating conditions, and allow for intermittently pumping in reverse.

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

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

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

CHEMICALLY RESISTANT
Series GD has a long-life in aggressive environments.

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

WIDE RANGE OF CONFIGURATIONS
Micropump’s designs offer a wide range of configurations to meet your more challenging requirements:

- Multiple gear, body, and o-ring materials
- High torque magnets
- Hybrid/abrasive resistant materials
PUMP PERFORMANCE

PERFORMANCE SUMMARY

FLOW RATE AT 4000 RPM
- 13.9 L/min (3.7 US gpm)

DISPLACEMENT
- Gear Set M35
- mL/rev 3.48
- US gal/1000 rev 0.92

MAXIMUM RATED DIFFERENTIAL PRESSURE
- 6.9 Bar (100 psi)

MAXIMUM RATED SYSTEM PRESSURE
- 103 Bar (1500 psi)

TEMPERATURE RANGE
- -46 to 204 °C (-50 to 400 °F)

VISCOSITY RANGE
- 0.5 to 1500 cps

MAXIMUM SPEED
- 4000 rpm

PUMP CONSTRUCTION
- Magnetic drive gear pump
- Cavity style
- Three helical gears
- Stationary shafts
- O-ring seal

WETTED MATERIALS

BASE MATERIAL
- 316 stainless steel

GEARS
- PEEK
- PPS
- Hardened steel

STATIC SEALS
- FKM
- FFKM
- TEV
- EP

MAGNETS

DRIVEN AND DRIVING
- Ferrite
- Rare earth

DIMENSIONS

NEMA 56C MOUNT

IEC 71-B14-MOUNT

*Units: mm[in]. Nominal dimensions shown