Series GJR
Magnetic Drive Gear Pump

Series GJR pumps deliver exceptional pumping performance and long life in abrasive fluid applications. Abrasive fluids, such as pigmented paints and inks, often cause significant pump wear, dramatically shortening pump life. Micropump’s Series GJR pumps use advanced materials and design processes to extend pump life.

The Series GJR pumps deliver the same exceptional pumping performance that you’ve come to expect from Series GJ pumps. These compact magnetically driven gear pumps feature a cavity style design for smooth pulseless fluid delivery. The magnetic drive removes the need for direct drive connection to the pump gears, eliminating leak points associated with shaft seals, while providing energy-efficient fluid delivery. Series GJR pumps are ideal for a wide range of abrasive fluid applications.

Chemical and Abrasive Resistance
Series GJR has a long-life in aggressive chemical and abrasive fluid environments.

No Leak-Prone Dynamic Seals
The magnetic drive static PTFE seals 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.

Small Size / High-Performance
The miniature size of the Series GJR coupled with the compact I-Drive® creates a high performance package that is easy incorporated into your system design.

Cavity Style Pumps
Cavity Style pumps are excellent for wide-ranging inlet and outlet operating conditions, and allow for intermittently pumping in reverse.

Electromagnetic Drive
The unique design of the electromagnetic drive eliminates all moving parts to increase motor life. Variable speed operation is controlled via 0-5 VDC, 4-20mA current loop, or manual control.

Performance Summary
Flow Rate at 4000 rpm
- 2400 mL/min (0.63 gpm)

Displacement
- Gear Set N21 N23
- mL/rev 0.316 0.64

Maximum Rated Differential Pressure
- 4.0 Bar (58 psi)

Maximum Rated System Pressure
- 21 Bar (300 psi)

Temperature Range
- -46 to 121 °C (-50 to 250 °F)

Viscosity Range
- 0.2 to 1500 cps

Maximum Speed
- 5000 rpm

Pump Construction
- Magnetic drive gear pump
- Cavity style

Magnets
- Driven and driving
  - Ferrite
  - Rare earth

Pump Performance

GJR-N21

GJR-N23

Specifications are subject to change without notice.
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