

GJR SERIES - YOUR APPLICATIONS DEMAND MORE

SEVERE DUTY PUMPS FOR
ABRASIVE, AGGRESSIVE FLUIDS



MICROPUMP®





GJR SERIES

EMPOWERING TECHNOLOGY FOR RELIABLE PERFORMANCE AND LONGEVITY IN SEVERE DUTY ENVIRONMENTS.

Micropump's revolutionary GJR Series has delivered reliability in severe duty applications customers have trusted for more than 40 years. We're proud to announce our newest design features higher differential pressure capabilities, improved chemical compatibility, higher flow capability, and is designed to resist wear from the hardest and most abrasive particles. Our GJR's set the standard and continue to be the ultimate severe duty pump selection to this day.

Abrasive Resistant Design

- Unparalleled design for abrasive fluid applications
- Not susceptible to deliberate particulates in fluid and able to handle increased particle size
- Severe duty operation

Unbeatable Durability

- Premium construction
- Base Material: 316SS with high durability coating
- Gear Material: Solid Nickel Carbide
- Chemically compatible construction
- Able to withstand higher differential pressures
- Delivery of higher flow and higher torque with larger drives

Accurate, Reliable Performance

- Excels in high fluctuating pressure loading environments
- Positive displacement gear pumps provide excellent flow control, even with varying differential pressure
- Pulseless flow for high accuracy
- Magnet drives dramatically reduce potential leak paths with no shafts penetrating the pump chamber wall
- No dynamic shaft seals

Specifications

- Displacement: 0.316 ml/rev (N21) | 0.64 ml/rev (N23) | 1.23 ml/rev (N27) NEW
- Flow Max: 0.89 GPM (3,400 mL/min)
- Flow Min: 0.042 GPM (158 mL/min)
- Max Differential Pressure: 80 psi (5.5 bar)
- Max System Pressure: 300 psi (21 bar)
- Temperature Range: -50 - 270° F (-46° - 130° C)

APPLICATIONS

GJR Series

The newly improved GJR Series features a wider performance range for diverse applications. Systems that require deliberate particulates within the pumping fluid have always been challenging to pump efficiently, and the GJR pump is the ultimate severe duty pump solution.

Whether your application utilizes water-based pigments or other highly abrasive fluids, the GJR Series removes obstacles faced with other pumps. The Micropump GJR Series solves these concerns with our improved design to withstand and resist abrasive particles. The pump design and coating prevents abrasives from collecting and enables the pump to shed these particles and even handle larger particles than before.

SUCCESS CASE

GJR Series Handles the Toughest of Fluids and Regulations

Micropump helped a long time customer with GJR Series pumps for water-based, aqueous printing systems. The OEM was challenged to offer printing systems to meet new California statewide health and environmental regulations. Due to the ink composition and the particulates necessary to ensure the printing adhered, Micropump GJRs were the best pump solution. Not only did our pumps move the ink successfully but the long operating lifespan was a benefit to the OEM and their customers. Micropump GJR Series is the optimal pump after testing of many pumps on the market.

GJR Series Delivers Chemical Compatibility for Severe Fluid Movement

The GJR Series provided a critical solution for a customer designing crucial systems for biomedical, cryogenics, and more. The Micropump GJR Series delivered a solution for moving liquid ammonia without the pump swelling and seizing. Other pumps had presented issues for the OEM causing issues in reliability and operation due to the entire pump and components not being chemically compatible. Additionally, the GJR Series reliably delivers consistent flow for the customer at low flow rates and higher pressures.

Micropump GJR Series was created as a solution for handling abrasive fluids. Not only has the GJR enabled technology for more than 40 years, but it also was designed to solve high fluctuating pressure load issues with competitors' gear pumps. The GJR Series has provided severe duty fluid handling solutions for systems including:

- Metal loaded fluids for vehicle rear defrost application
- Nano Beads in coolant systems to enhance heat conduction
- Buffered deionized water for medical applications
- Digital inkjet printing on ceramic tiles and patterns on textiles
- Continuous inkjet printing of codes on packaging and bottles, cords & cables, PVC, cans, eggs, etc



LEARN MORE

Explore how the GJR Series Pump from Micropump can deliver a robust and unrivaled pumping solutions for your fluid applications at [Micropump.com](https://micropump.com).

Contact your local distributor for more information about how the GJR Series can provide a solution for your project.

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ACTUAL PERFORMANCE MAY VARY. Specifications are subject to change without notice.