

ANALYTICAL EQUIPMENT



MICROPUMP®





The advanced GJ Series valve delivers precise control on to any equipment, making it an important part of your preparation and waste fluid support system.

Industry-leading design with precise control, pressure, steady flow. Equipment OEMs can expect high uptime and performance for years.

GJ Series

OUR DESIGN FEATURES
LONGEVITY, QUIET
LOWER POWER

Industry-leading analytical equipment features pumps with precise control of fluidic parameters including flow, pressure, steady flow velocity, and chemical compatibility. Equipment OEMs must ensure that the systems exceed uptime expectations, and pumps provide sterile and clean performance for unadulterated samples.



EQUIPMENT OVERVIEW

MICROPUMP SOLUTION

Micropump answers the industry need for positive displacement pumps in a compact design without compromising pressure, performance, or steady flow velocity. Additionally, our design features operational longevity, quieter operation, and lower power consumption. For applications that need complete component customization, Micropump has the flexibility to precisely configure our pumps to meet an OEM's specific needs.

Micropump's magnetic gear drive pumps are superior to shafted gear pumps, centrifugal or diaphragm pumps. Our cavity and suction shoe gear style design with no dynamic seals eliminates leaks from shaft seal failures and are also superior in design resulting in higher efficiency, positive displacement performance, and industry-leading smooth, continuous flow. Our design ensures no debris, grease or other fluids impact the system. Additionally, Micropump utilizes high quality materials and robust features to provide a more economical solution to many ceramic or exotic metal pump alternatives.

Leak-free Components

- Designed with our magnet drive, no shafts penetrate the pump chamber wall, dramatically reducing potential leak paths
- No dynamic shaft seals
- In the event of a failure, no fluids will leak

Accurate, Reliable Performance

- Excellent flow control, even with varying differential pressure or speeds
- Pulseless flow for high accuracy
- Industry leader for lowest flow ripple for very low flow velocity applications
- Competitive repeatability, reliability and longevity
- Small and compact size
- Limited energy consumption

Maintenance Ease

- Reliable and extended lifetime and consistent performance through wear
- Able to handle extreme environments including vacuum and fluctuating temperatures
- Low viscosity and lubrication needs
- Chemical inertness of components and material customization options to meet your design requirements
- Near-zero slip for accurate metering (GA Series)
- Self-compensation for wear for extended life and less maintenance (GA Series)

GA Specifications

- Displacement: 0.017 ml/rev (X21) | 0.042 ml/rev (V21) | 0.092 ml/rev (T23)
- Min Flow Rate: 8.5 mL/min (0.002 US gpm)
- Max Flow Rate: 506 mL/min (0.134 US gpm)
- Max Differential Pressure: 5.2 Bar (75 psi)
- Max System Pressure: 21 Bar (300 psi)
- Temp range: -46 to 177 °C (-50 to 350 °F)

GJ Specifications

- Displacement: 0.316 ml/rev (N21) | 0.64 ml/rev (N23) | 0.91 ml/rev (N25) | 1.23 ml/rev (N27)
- Min Flow Rate: 158 mL/min (0.041 US gpm)
- Max Flow Rate: 6.8 L/min (1.8 US gpm)
- Max Differential Pressure: 5.5 Bar (80 psi)
- Max System Pressure: 21 Bar (300 psi)
- Temp range: -46 to 121 °C (-50 to 250 °F)

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