

Fluid metering

METERING PUMP

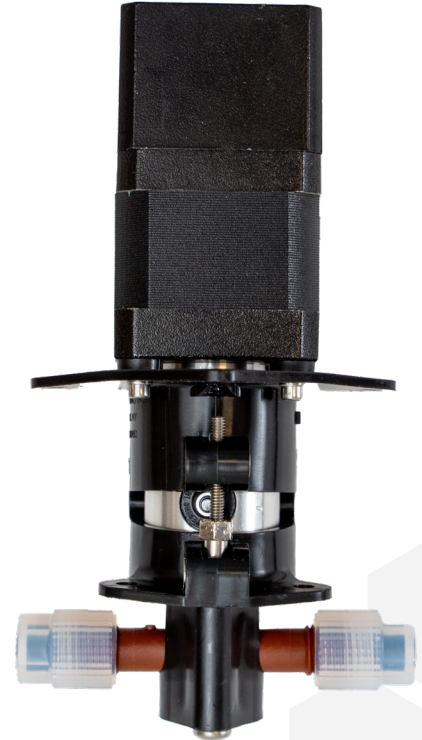
METERING AND BULK FLUID TRANSFER

Valveless Design. Proven Reliability.

The Metering Pump is engineered to solve common fluid handling challenges such as inconsistent flow, frequent maintenance, and compatibility with demanding fluids. Built on proven CeramPump® technology, it uses a valveless rotating ceramic piston with a single moving part in the fluid path. With a compact footprint and configurable options, the pump integrates easily into both new and existing systems.

Optimized for Continuous Operation

Designed for OEM integration and process environments, the pump delivers stable, repeatable flow across varying operating conditions. Chemically inert ceramic components resist corrosion and wear, supporting long-term reliability and consistent, repeatable performance while minimizing maintenance and downtime. Metering Pumps often match or exceed the lifetime of the instrument, helping reduce maintenance over extended operation.



KEY BENEFITS

Optimized for Bulk Fluid Transfer

- Designed for applications where flow rate is the primary requirement, making it ideal for reservoir changing, filling, dosing, and bulk fluid movement.

Chemical Compatibility

- Handles aggressive, viscous, or sensitive fluids using corrosion-resistant ceramic wetted components.

Flexible Drive & Control Options

- Supports fixed or variable speed operation with simple on/off control or advanced system integration.

Scalable System Design

- Enables multi-pump configurations for ratio control, batching, or distributed fluid handling systems.

OEM-Ready Integration

- Compact, configurable design supports faster development cycles and seamless integration into equipment platforms.

OEM Engineering Support

We offer support for dispense volume, flow rate, pressure, material compatibility, system integration, and configuration optimization. Contact us to discuss your project and explore a solution designed for your specific needs.



Fluid Metering's facility is certified to the ISO 9001:2015 international standard. Product components are manufactured to meet EU RoHS and REACH compliance requirements.



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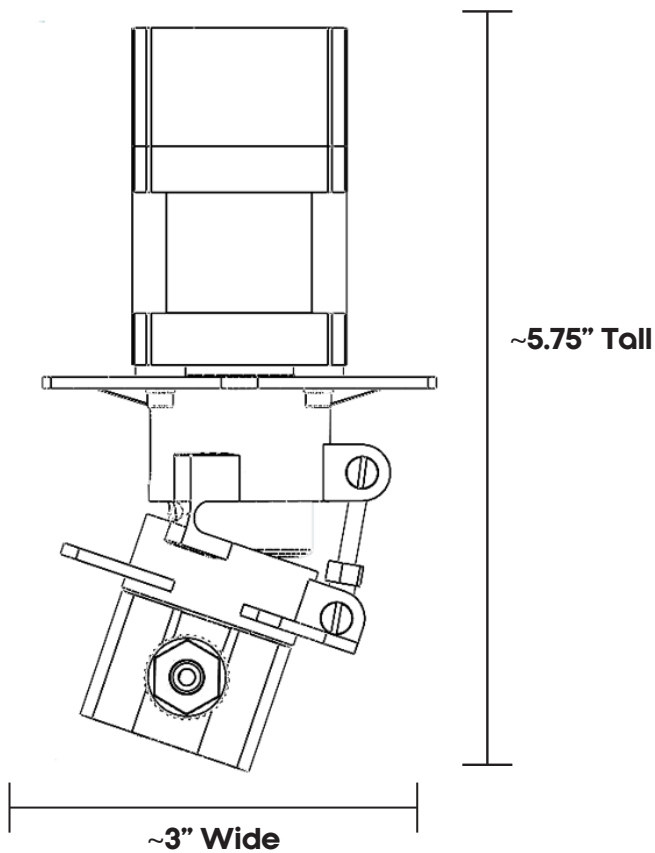


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PUMP SPECIFICATIONS



WETTED MATERIAL OPTIONS:

Ceramics: Alumina, Zirconia
Pump Housing: PVDF, ETFE, Polypropylene
Seals: PTFE, FKM, FFKM, Rulon AR, UHMW-PE

PORT OPTIONS:

1/4-28 UNF Threaded Ports,
Barb Fittings (1/8" - 1/4" Tubing ID),
1/4" Compression Nuts

DISPENSE VOLUME RANGE¹:

32 - 1280 μ L/rev

FLOW RATE RANGE:

0.192-2560 mL/min

CALIBRATED FLOW RATE:

Pump can be calibrated 20-400 mL/min \pm 5%

¹ The performance of Fluid Metering pumps may vary based on specific application conditions and individual user setups. We recommend speaking with one of our engineering experts for guidance tailored to your specific needs.

MOTOR/DRIVER SPECIFICATIONS

FIXED SPEED MOTORS

MOTOR SPEED: 2000 rpm

VOLTAGE: 24 V

RATED CURRENT: 0.88 A / 2.0 A

MOTOR DIRECTION: Bidirectional,
Calibrated Clockwise

STALL TORQUE: 0.2 N·m

OPERATING TEMPERATURE: 20°C to 60°C

VARIABLE SPEED MOTORS

SPEED CONTROL: Potentiometer/voltage

SPEED RANGE: 0 - 1700 rpm

VOLTAGE: 24 V

RATED CURRENT: 0.88 A / 2.0 A

MOTOR DIRECTION: Bidirectional,
Calibrated Clockwise

STALL TORQUE: 0.2 N·m

OPERATING TEMPERATURE: 20°C to 60°C

CUSTOMIZED FLUIDIC SOLUTIONS

Be it a small tweak to existing technology or a full development project, our pumps and dispensers can be customized to accommodate dispense volume, flow rate, temperature, pressure, materials, and more.

Contact Us Today!

Rapid prototyping available within 10 business days*

*Prototype requests are subject to availability of parts and materials. Fluid Metering will confirm availability within 2 business days and provide an estimated shipping date.