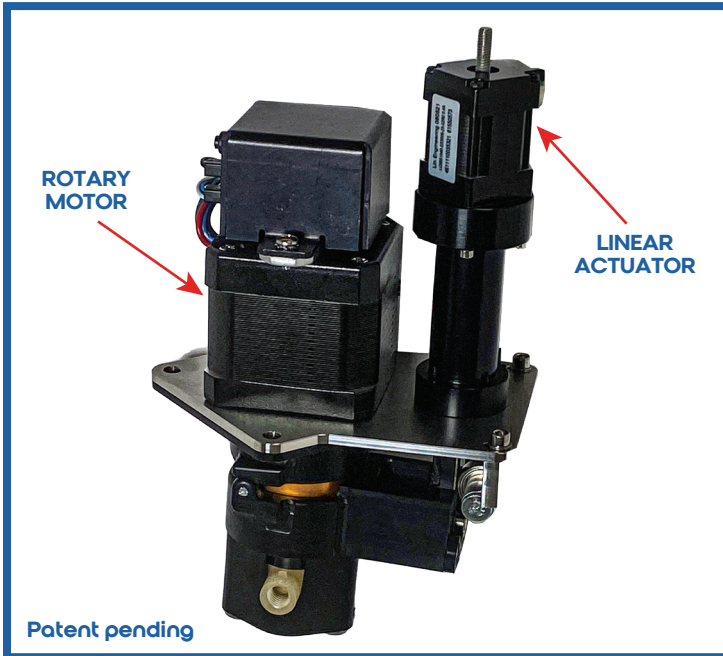


Fluid metering, inc.

VARIABLE DISPENSE PUMP

ALL-IN-ONE PUMP ACHIEVES THE WORK OF SEVERAL PUMPS



The **FVD** Series are stepper motor driven variable dispense pumps that combine priming, flushing and a precise dispensing cycle in one pump.

The innovative, low-profile design offers unparalleled accuracy and precision to meet application requirements in a variety of markets.

From medical devices and biotechnology to diagnostics and analytical devices, there is no shortage of advantages when it comes to the **FVD** Pump to be variable with Cerampump® technology.

FEATURES

- Valveless fluid control technology having two moving parts in fluid path
- FMI standard motion for priming the line, and syringing motion through electronic angle adjustment for fluid aspiration and dispense
- Flexible link to create a proportional relationship between the linear actuator and angular motion of the pump body
- Pump provides on-the-fly mixing for high precision mix ratios all within a smaller footprint

(Controller & Software Sold Separately)

BENEFITS

- FMI CeramPump® chemical inertness for increased sustainability
- Ability to vary dispense volumes in open or closed loop systems
- Double the life-cycle of currently available technologies
- Simplified fluidic architecture; replaces priming systems with one pump
- Maintenance free, wear-resistant materials
- Superior performance and reliability



Fluid Metering Variable Dispense components are certified to ISO 9001:2015 standard and meet EU RoHS and REACH requirements

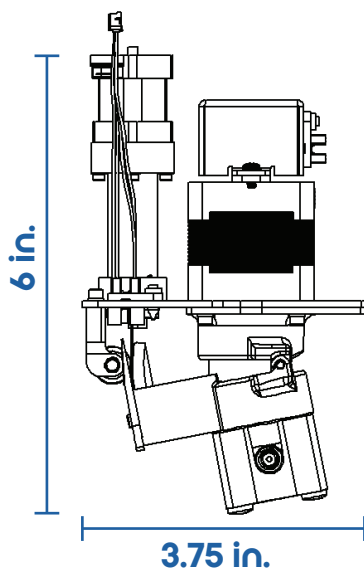
VARIABLE DISPENSE PUMP

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PUMP SPECIFICATIONS

- **DIMENSIONS:**
6" x 3" x 3.75"
(152.4 x 76.2 x 95.3 mm)
- **SHIPPING WEIGHT:** 1.3 lbs
- **WETTED MATERIAL:**
Ceramic (Alumina)
PVDF | UHMWPE | FKM
- **DISPENSE VOLUME:**

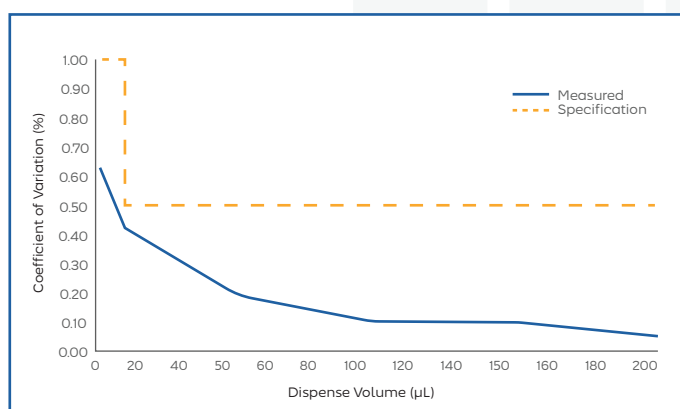
For 2 — 10 μ L	For 10 — 200 μ L
Accuracy of \pm 5%	Accuracy of \pm 1%
Precision of C.V \leq 1%	Precision of C.V \leq 0.5%
- **DISPENSE RESOLUTION:**
0.037 μ L/Step (Linear)
- **PUMP PRESSURE RATING:**
30psi (2.06 Bar)
- **FLOW RATE:**
Minimum 0.167 mL/sec @ 5 rpm
Maximum 3.3 mL/sec @ 1000 rpm



DRIVE MOTOR SPECIFICATIONS

- **RATED CURRENT:**
Rotational: 2.0 amp
Linear: 0.4 amp
- **MOTOR FRAME:**
Rotational: NEMA Size 17 (43 mm)
Linear: NEMA Size 8 (20 mm)
- **STEP ANGLE:**
Rotational & Linear: 1.8° Full Step
- **MOTOR SPEED:**
Rotational: Up to 1000 rpm
Linear: Up to 750 rpm
- **MOTOR DIRECTION:**
Rotational: Clockwise
Linear: Clockwise & Counterclockwise
- **OPERATING TEMPERATURE:**
0°C TO 50°C

DISPENSE VOLUME VS. COEFFICIENT OF VARIATION



IDEAL FOR OEMS

Diagnostic, hematology, flow cytometry, genomics, chromatography and other applications where, multiple precision dispensing at steady, reproducible, flow rates are required, while ease of use, long-life and maintenance free cycles are essential.

CONTACT US TODAY TO DISCUSS YOUR NEXT PROJECT

We offer customized solutions to meet specific application and design requirements. Whether it is a small tweak to an existing technology or full development project, we partner with you to create an ultra-precise microfluidic solution that delivers on all your objectives.