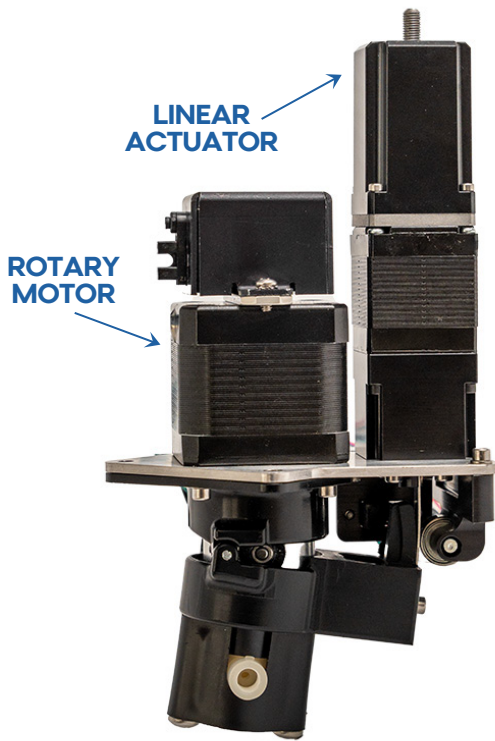


# Fluid metering, inc.



## VARIABLE DISPENSE PUMP



Patent Pending

The **FENYX** Variable Dispense pump connects the needs of the life sciences field with an advanced miniaturized fluidic system designed to manipulate and control small volumes of fluid at the microscale level for a broad range of applications.

Achieving optimal performance in accuracy and repeatability with innovative design modifications, this product enables the ability to do precision microliter dispensing, high flow washing, and priming with one single pump.

This technologically advanced fluidic device not only meets the growing demand for simplified architecture, it also provides increased throughput, decreased cost of ownership, and precise dispenses critical in life science applications.

## FEATURES & BENEFITS

- FMI CeramPump® chemical inertness for increased reliability
- Valveless pump technology
- Calibratable home dispense volume
- Linear anti-backlash mechanism
- Differential linear encoder
- Non-contact dispensing down to 4µL
- Maintenance free, wear resistant materials
- One moving part in fluid path
- Simplified fluidic architecture
- Reduces system total cost of ownership when compared to alternative technologies
- Enables increased throughput when compared to alternative technologies



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.

REV-A

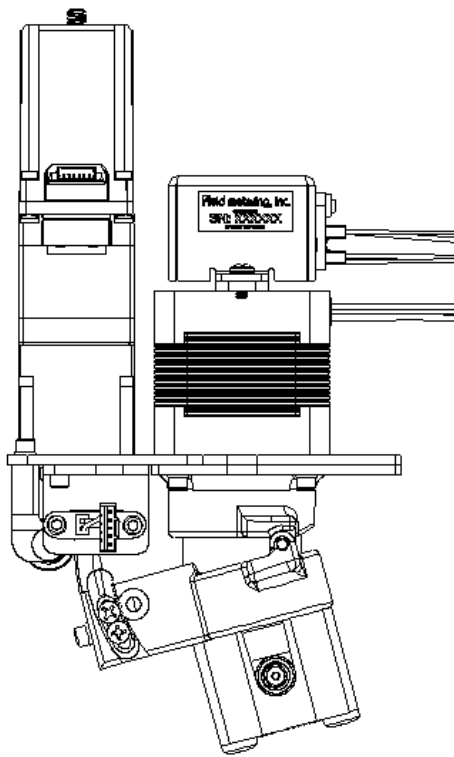


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#### PUMP SPECIFICATIONS



7.1" Tall

3.8" Wide

#### WETTED MATERIAL OPTIONS:

Ceramic: Alumina, Zirconia  
Pump Housing: PVDF, ETFE, PTFE, Polypropylene, PEEK

#### SEAL MATERIAL OPTIONS:

Carbon-Filled PTFE, FKM, FFKM, Rulon AR

#### PORT OPTIONS:

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

#### DISPENSE VOLUME:

For 2 - 10 $\mu$ L

Accuracy of  $\pm 5\%$

Precision (CV)  $\leq 1\%$

For  $>10$  - 200 $\mu$ L

Accuracy of  $\pm 1\%$

Precision (CV)  $\leq 0.5\%$

#### DRIVE MOTOR SPECIFICATIONS

##### RATED CURRENT:

Rotational: 2.0 amp

Linear: 1.0 amp

##### MOTOR FRAME:

Rotational: NEMA 17 (43 mm)

Linear: NEMA 11 (28 mm)

##### STEP ANGLE:

Rotational & Linear:

1.8° Full Step

##### MOTOR SPEED:

Rotational: Up to 1000 RPM

Linear: Up to 1900 RPM

##### MOTOR DIRECTION:

Rotational: Clockwise

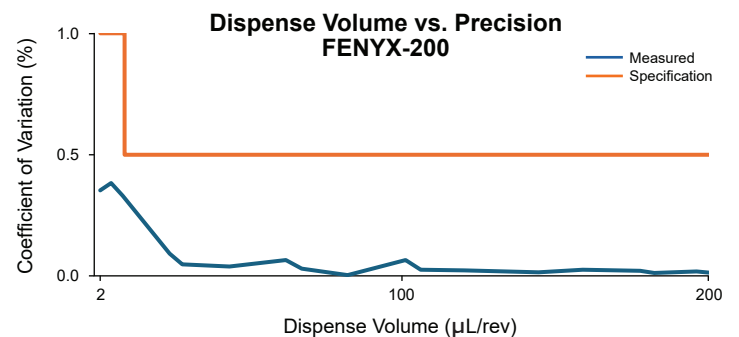
Linear: Clockwise &

Counterclockwise

##### OPERATING TEMPERATURE:

0°C to 50°C

FENYX	Dispense Volume ( $\mu$ L/rev)		Flow Rate (mL/min)	
	min	max	1 RPM	1000 RPM
FENYX-100	1	100	0.001	100
FENYX-200	2	200	0.002	200
FENYX-400	4	400	0.004	400



- Maximum standard operating pressure: 30 PSIG

#### 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, resolution, materials, and more.

**Contact Us Today!**

Rapid prototyping available within 10 business days\*

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