

Fluid metering

FENYX+™ VARIABLE DISPENSE PUMP



The FENYX+ Variable Dispense Pump builds upon the proven performance of its predecessor by significantly expanding its flow range and enhancing versatility. Engineered to meet the evolving demands of the life sciences sector, this next-generation pump delivers precise and reliable fluid handling across a broad spectrum of applications- from laboratory automation and diagnostics to bioprocessing and pharmaceutical workflows.

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

This technically advanced fluidic device not only meets the growing demand for simplified architecture, it also provides increased throughput, decreased cost of ownership, and precise dispenses.

Patent Pending

FEATURES & BENEFITS

- CeramPump® technology simplifies fluidic architecture with one moving part in fluid path
- Internal sapphire-hard ceramics are chemically inert, dimensionally stable, and abrasion resistant
- Non-contact dispensing maintains 1.0% precision for millions of cycles without maintenance
- Self-priming, dispensing, and flushing functions
- Enables increased throughput compared to alternative technologies
- Reduces system total cost of ownership compared to alternative technologies



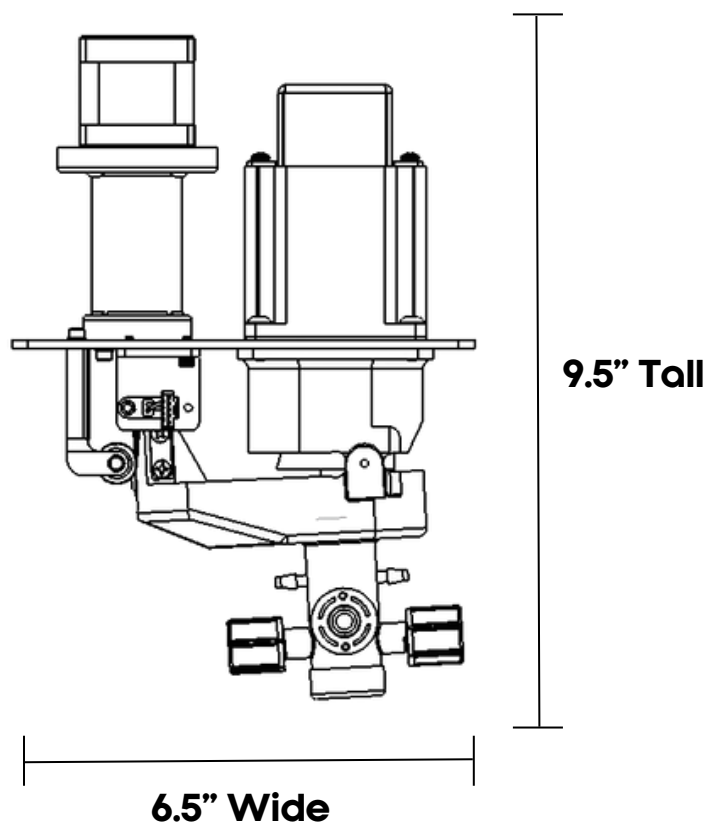
Fluid Metering's facility is certified to the ISO 9001:2015 international standard. Product components are manufactured to meet EU RoHS and REACH compliance requirements.

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FENYX+™

VARIABLE DISPENSE PUMP

PUMP SPECIFICATIONS



DRIVE MOTOR SPECIFICATIONS

RATED CURRENT:

Rotational: 4.2A
Linear: 1.5A

MOTOR FRAME:

Rotational: NEMA 23 (57mm)
Linear: NEMA 14 (35mm)

STEP ANGLE:

Rotational & Linear:
1.8° Full Step

MOTOR SPEED:


Rotational: Up to 1150 rpm
Linear: Up to 1750 rpm

MOTOR DIRECTION:

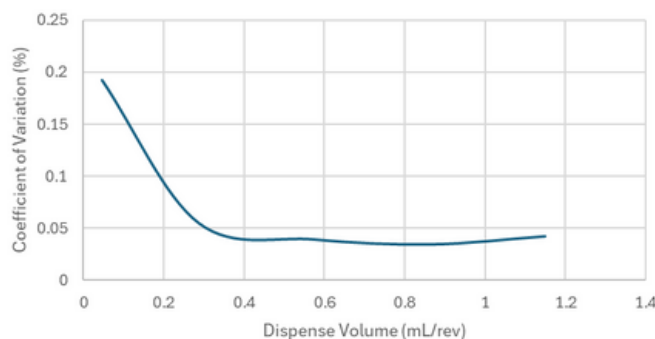
Rotational: Clockwise
Linear: Clockwise &
Counterclockwise

OPERATING TEMPERATURE:

0°C to 50°C

	Dispense Volume (μL/rev)		Flow Rate (mL/min)	
	min	max	min	max
FENYX+	250	1150	.25	1322.5
FENYX-100	0.075	110	0.00075	110
FENYX-200	2	200	0.002	200
FENYX-400	4	400	0.004	400

Coefficient of Variation vs. Dispense Volume



- 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, 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.

WETTED MATERIAL OPTIONS:

Ceramics: Alumina

Pump Housing: PVDF, ETFE,

Seals: PTFE, FKM, FFKM, Rulon AR, UHMW-PE

PORT OPTIONS:

7/16-20 UNF Threaded Ports,

Compatible with Compression Nuts

DISPENSE VOLUME¹:

For > .25 -1.15 mL

Accuracy of ± 2%

Precision (CV) < 1%

¹ The performance of Fluid Metering pumps may vary based on specific application conditions and individual user setups. We recommend consulting with a qualified professional or our technical support team for assistance tailored to your specific needs.