Fluid metering

TOP 10 F.A.Q.'S

Patented

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FENYX®
VARIABLE DISPENSE PUMP

1. Q. What is the difference between the FENYX and other FMI OEM technologies?

A. The FENYX, formerly known as the FVD Variable Dispense Pump, offers unique technological advancements. It allows the user to electronically adjust the angle of the variable body to change the dispense volume, whereas standard FMI pumps have a fixed angle and dispense volume.

2. Q. How does the FENYX compare to current market technology?

A. The FENYX is a maintenance free, cost saving alternative to today's syringe pump technology that increases throughput potential.

3. Q. Can the FENYX perform non-contact dispensing (dispensing over air?

A. Yes, down to 4 µL.

4. Q. What are the tested lifecycles of the FENYX Variable Dispense Pump?

A. Five (5) million rotations and two (2) million linear actuations.

5. Q. Is there any change in accuracy when changing dispense volumes?

A. No, accuracy is minimally impacted by dispense volume change.

6. Q. How do the number of steps correlate to dispense volume (i.e., 1 step = x volume)?

A. Each step changes the dispense volume by about 0.0039 µL and require about 25.5 steps per µL change.

7. Q. How much variation is there from pump to pump?

A. The calibrated flag reduces pump to pump variation to less than 0.5% of max dispense.

8. Q. Can the linear actuator motor and 17 frame stepper motor be used at the same time?

A. It is recommended only one should operate at a time.

9. Q. Do I have to account for step loss with the linear movement?

A. No, the linear motor has a built-in anti-backlash mechanism.

10. Q. Does the linear motor have an encoder, and if so, what type?

A. Yes, there is an option for a single-ended encoder or a differential encoder.

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.