

TOP 10 F.A.Q.'S



Patent pending

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FENYX+ VARIABLE DISPENSE PUMP

1. **Q. What is the difference between the FENYX, the FENYX+ and other Fluid Metering technologies?**
A. The FENYX Variable Dispense Pump, allows electronic adjustment of the body angle to vary dispense volume-unlike Fluid Metering standard pumps with fixed settings. The FENYX+ delivers - 230% higher flow rates and volumes than the original FENYX pump.
2. **Q. How does the FENYX+ Pump compare to current market technology?**
A. Unlike syringe pumps, which require regular maintenance and can be costly to operate, the FENYX+ features a simplified maintenance-free architecture. It delivers higher throughput, more precise dispensing, and a lower total cost of ownership - making it a more efficient and cost-effective solution.
3. **Q. How does the total cost of ownership of the FENYX+ Pump compare to syringe pumps?**
A. The FENYX+ delivers a substantially lower total cost of ownership by eliminating syringe replacement, reducing maintenance, and minimizing downtime - resulting in significant savings compared to syringe pumps. It also boosts customer satisfaction, uptime confidence, and workflow continuity.
4. **Q. What are the tested lifecycles of the FENYX+ Pump?**
A. 14.6 million rotations and 1 million linear actuations.
5. **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 0.182µL and requires about 5.5 steps per µL change.
6. **Q. Can the linear actuator motor and 23 frame stepper motor be used at the same time?**
A. It is recommended only one should operate at a time.
7. **Q. What types of fluids are compatible with the FENYX+ Pump?**
A. The FENYX+ is designed to handle a wide range of fluids, including aqueous solutions, buffers, and select solvents. For highly viscous or aggressive fluids, compatibility should be confirmed with Fluid Metering to ensure long-term reliability.
8. **Q. Can the FENYX+ Pump be integrated into existing automated platforms?**
A. Yes. The FENYX+ is engineered for effortless OEM integration in mind and can be easily controlled via standard stepper motor drivers or communication protocols, allowing seamless incorporation into laboratory automation or diagnostic platforms.
9. **Q. What are the minimum and maximum dispense volumes achievable with the FENYX+ Pump?**
A. The FENYX+ can precisely dispense from as low as 250 µL up to 1150 µL, depending on the programmed step range and configuration. This broad range makes it suitable for both microfluidic and higher-volume applications.
10. **Q. How does the FENYX+ maintain accuracy over long operating cycles?**
A. The FENYX+ maintains accuracy over long operating cycles by using sapphire-hard ceramic internals and non-contact dispensing technology, which minimize mechanical wear and calibration drift ensuring precise performance for millions of cycles without frequent recalibration.



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.