Fluid metering

TOP 10 F.A.Q.'S

Patented

CONTACT US TODAY!

P: 800.223.3388
E: Pumps@fluidmetering.com
www.fluidmetering.com

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TRYTON®
PULSELESS NANOLITER PUMP

1. Q. What is the TRYTON® Pump?
A. The TRYTON Pump is a hybrid inline piston pump that delivers consistent, repeatable fluid handling for OEM and instrument applications.

2. Q. How does the TRYTON Pump work?
A. The TRYTON Pump uses a linear reciprocating piston to move fluid. As the piston moves up, it draws fluid into the chamber; as it moves down, it dispenses fluid. External valves control whether fluid enters through the inlet or exits through the outlet.

3. Q. How is the TRYTON Pump different from Fluid Metering's (FMI) rotary piston pumps?
A. The TRYTON Pump uses a linear piston (like a syringe pump) and requires external valves, while FMI's rotary piston pumps use a rotating, reciprocating motion with built-in valving, eliminating the need for external valves.

4. Q. What materials is the TRYTON Pump compatible with, including salts or crystallizing fluids?
A. The TRYTON Pump has a ceramic fluid path compatible with aqueous solutions, buffers, salts, and alcohols, and can handle crystallizing fluids when used with proper flushing cycles.

5. Q. How should the TRYTON Pump be handled after running crystallizing fluids?
A. After using any fluid that might crystallize or precipitate, it is best to run a flush cycle if the pump will be idle.

6. Q. Is the flow from the TRYTON Pump smooth and continuous?
A. Yes. The TRYTON Pump's linear piston design provides smooth, continuous flow comparable to syringe pumps, making it ideal for low-pulsation applications.

7. Q. Can the TRYTON Pump do non-contact dispensing?
A. Yes, down to 1 µL.

8. Q. Does the TRYTON Pump require priming, and how is it done?
A. Yes. The TRYTON Pump is not self-priming by design and requires proper valve control. The recommended approach is to use a separate priming pump (e.g., FMI STF Pump). Alternatively, it can be self-primed using dual external valves (not included).

9. Q. How does the TRYTON Pump compare to syringe pumps?
A. The TRYTON Pump provides syringe pump precision with a durable ceramic design that eliminates disposable syringes and reduces maintenance.

10. Q. What is the standard volume capacity of the TRYTON Pump?
A. The standard TRYTON Pump has a chamber volume of about 150 µL, but it can be customized to larger volumes based on application needs.

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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