

TOP 10 F.A.Q.'S



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STF

FIXED DISPENSE PUMP

(5-400 µL)

1.

Q. What is the STF Pump?

A. The STF Pump is built on Fluid Metering's (FMI) proven CeramPump® technology and delivers precise, repeatable fixed-volume dispensing for applications requiring accurate, consistent fluid handling. Its rotating and reciprocating ceramic piston design provides reliable performance without recalibration.

2.

Q. What is the pressure rating for the STF Pump and how does that affect flow?

A. The STF Pump pressure rating is 100 psig. Deviation in flow varies depending on pump head configuration.

3.

Q. Can the STF Pump run dry?

A. Yes, all FMI pumps can run dry intermittently. It is not recommended that you run dry with a high-duty cycle as this could lead to premature failure of the piston and will cause the pump to seize.

4.

Q. How is the STF Pump calibrated?

A. STF Pumps are calibrated at FMI facilities by selecting the appropriate fixed link (stroke angle), fine tuning dispense volume with an eccentric bushing, and verifying performance to approximately 1% accuracy prior to shipment, ensuring customers receive a ready-to-use, calibrated pump.

5.

Q. How do you manage pulsations in the STF Pump?

A. Pulsation can be minimized using compliant tubing or FMI's in-line pulse suppressors. The appropriate solution depends on the application and desired flow profile.

6.

Q. Can a STF Pump handle both air and liquid?

A. Yes. The STF Pump is self-priming and can handle both air and liquid during startup and normal operation. Extended dry running is not recommended.

7.

Q. Can the STF Pump handle very high viscosity materials?

A. Yes. The STF Pump is designed to be viscosity independent within practical limits, relying on motor speed and applied shear stress rather than fluid flow characteristics alone.

8.

Q. How does the STF Pump handle chemically aggressive fluids?

A. The STF Pump is compatible with a wide range of chemically aggressive fluids through the use of chemically inert ceramic components and material options selected to meet application requirements.

9.

Q. How does back pressure affect flow rate for an STF Pump?

A. Due to the high volumetric efficiency of the CeramPump® ceramic piston design, the STF Pump experiences minimal flow rate loss under back pressure, delivering highly accurate and repeatable dispensing regardless of system conditions—an advantage over gear, diaphragm, and peristaltic pumps.

10.

Q. How can STF Pump performance be monitored within a system?

A. The STF Pump delivers consistent, repeatable performance by design; within integrated systems, flow sensors can be used to provide real-time feedback on flow or pressure, enabling system-level monitoring and control as needed.



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.