

TOP 10 F.A.Q.'S



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STFQ

FIXED DISPENSE PUMP

(250 μ L - 1.25 mL)

1.

Q. What is the STFQ Pump?

A. The STFQ Pump is a valveless, positive displacement pump built on Fluid Metering's (FMI) proven CeramPump® technology. It delivers consistent, repeatable fluid handling designed for precise volume dispensing with highly repeatable performance.

2.

Q. What type of motor and controller does the STFQ Pump use?

A. The STFQ Pump is supplied with a 23-frame stepper motor (similar to NEMA 23), enabling precise control over fluid delivery. While FMI offers its own controller, most customers choose to use their own. Any compatible controller that can operate a NEMA 23 stepper motor and interface with the pump's optical sensor can be used.

3.

Q. Can the STFQ Pump handle corrosive or aggressive chemicals?

A. Yes. The STFQ Pump is highly compatible with aggressive and corrosive fluids, including acids such as hydrofluoric acid. Ceramic construction and optional coatings provide excellent chemical resistance and durability.

4.

Q. What does the software look like for the STFQ pump?

A. A configuration tool is accessible to quickly help OEMs get up and running for development and prototyping.

5.

Q. How is the STFQ Pump calibrated?

A. STFQ 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.

6.

Q. Is the STFQ Pump self-priming?

A. Yes. The STFQ Pump is self-priming and can draw fluid ranging from 3 ft/H₂O to 15 ft/H₂O, depending on the configuration.

7.

Q. How does back pressure affect flow rate for the STFQ pump?

A. Due to the high volumetric efficiency of the CeramPump® ceramic piston design, the STFQ 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.

8.

Q. Can the STFQ Pump be cleaned easily?

A. Yes. The STFQ Pump can be flushed with compatible solvents such as ethanol, diluted nitric acid, or hydrogen peroxide. Regular cleaning is recommended, especially when working with fluids like saline that may crystallize.

9.

Q. What types of applications is the STFQ Pump well suited for?

A. The STFQ Pump is a strong fit for analytical, diagnostic, and laboratory instrumentation that dispenses small volumes of reagents, diluents, tracers, or similar fluids. It is especially useful in systems that require repeatable delivery over long operating cycles.

10.

Q. Is the STFQ Pump suitable for OEM product development and can it be customized for specific applications?

A. Yes, the STFQ Pump is ideal for OEM integration for companies developing specialized instrumentation, offering a precise and configurable platform that can evolve with future product generations.



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.