Fluid metering

TOP 10 F.A.Q.'S

Patent pending

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STF
ADJUSTABLE DISPENSING PUMP

1. Q. What are the flow rate dispense volume ranges for the STF pump?
A. The dispense volume ranges from 1-400 µL/rev.

2. Q. What is the pressure rate for the STF pump and how does that affect flow?
A. 100 PSI. Deviation in flow varies depending on pump head configuration.

3. Q. What fluids are compatible with the STF pump?
A. The STF is compatible with many different fluid path materials and can be customized to fit your fluidic requirements.

4. Q. How does backpressure affect flow rate for the STF pump?
A. Due to the volumetric efficiency in the CeramPump® piston pump design, FMI pumps exhibit minimal loss in flow rate when back pressure is applied. This results in highly accurate and repeatable flow rate regardless of you system conditions. This is a major advantage over gear pumps, diaphragm pumps, and peristaltic pumps.

5. 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.

6. Q. Does the STF pump require a priming pump?
A. No, FMI's portfolio of CeramPump® valveless piston pumps do not require secondary pumps for priming.

7. Q. What is the max pull height achievable?
A. All FMI pumps are self-priming up to 15ft H_2O.

8. Q. How many microliters can the STF pump be adjusted?
A. This will depend on the type and amount of eccentric bushings on the pump.
9mm piston: maximum adjustment is *31µL on a 400µL dispense*.
1/8" piston: maximum adjustment is *4µL on a 50µL dispense*.

9. Q. Are there any recommendations FMI has for monitoring the performance of the STF pump?
A. Yes, the use of flow sensors. Flow sensors provide the ability to detect instantaneous deviations between target and actual pressure outputs and adjust to correct them. This allows the system to stay at a constant speed.

10. Q. How does FMI manage pulsations in the STF pump?
A. FMI has many strategies to tackle pulsations and achieve smooth, continuous flow in its pumps. One method uses long, soft tubing which will absorb some of the forces and dampen pulsation. Another method uses FMI's PDHF In-Line Pulse Suppressor. Ideal for larger flows, this dampener can be incorporated to create a smoother flow profile.

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.