

Industrial Variable Speed Pump

Precision, Valveless, Fluid Control



Flow Rates to 2300 mL/min \pm 1%

NEW!

High Torque, Variable Speed Metering Pump for Industrial & Process Applications



Features:

- FMI's Patented CeramPump® Valveless Piston Design
- One Moving Part in fluid path.
- Rugged, 1/4 HP, 3 phase High Torque Motor, ideal for viscous fluids.
- Space-Saving, DIN Mount Controller ideal for process control panels & control rooms.
- Local Keyboard & Remote Control
- Remote Speed Control: 0-20 mA, 4-20 mA, 0-10 VDC
- Multi-function I/O connector for forward, reverse, jog, emergency stop, & reset
- Complete System includes drive motor, pump head, variable speed controller, & cables.
- All electronic components  



FLUID METERING, INC.

Call us at 516-922-6050 or use our convenient online application form on our web site: www.fmipump.com

The Industrial Variable Speed Metering Pump is a variable stroke rate pump system for industrial process applications. The high torque 3 phase variable speed drive is ideal for handling a broad range of fluid viscosities.

The complete metering system consists of an FMI valveless pump head module, a high torque drive module, and a control module. The pump head is integrally mounted to the drive and the control module is connected to the drive via a 4 conductor cable.

The Control Module has a 3 digit LED display corresponding to frequency - 2 Hz (60 rpm) minimum, 60 Hz (1800 rpm) maximum. Motor speed can be adjusted either manually using the convenient front panel membrane switches, or electronically using a 0-20 mA, 4-20 mA, or 0-10VDC input signal. Additional control functions include start, stop, acceleration, forward, & reverse.

Flow rate is determined by the combination of drive speed, piston size, and pump head displacement. Below is a reference chart for the maximum flow rate for each piston size based on maximum displacement at 1800 rpm.

Piston Code	Max Flow (mL/min)
RH00	45
RH0	90
Q0	144
RH1	180
Q1	576
Q2	1296
Q3	2304

Technical Data:

Controller: Input 115 VAC, 1 ϕ , 50/60 Hz.
Output: 230 VAC, 3 ϕ 50/60 Hz

Features:

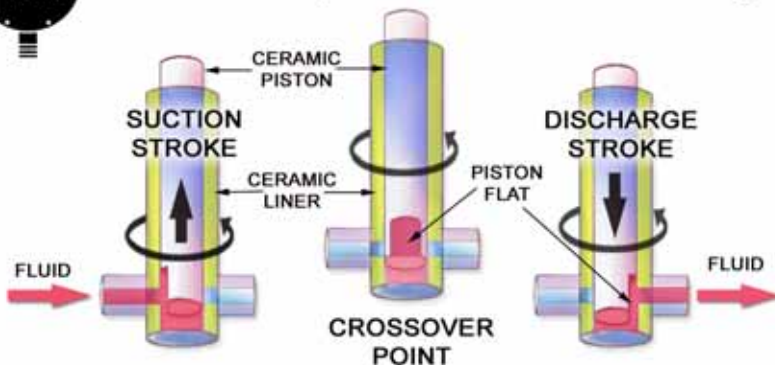
- Local keypad control
 - Acceleration time
 - Deceleration time
 - Direction
 - Start/stop
 - Stop method (controlled stop or coast)
- Multifunction Control I/O connector
 - Forward
 - Reverse
 - Multifunction input pin
 - Jog
 - Emergency Stop
 - Reset
 - Multifunction output pin
 - Fault
 - Frequency agreed (at speed)
 - Operating (run mode)
 - Speed adjustment
 - 0 to 20 mA
 - 4 to 20 mA
 - 0 to 10 VDC
- 115V, 50/60Hz, 1-Phase from 1/4 - 1HP
- NEMA 4X Option for Harsh Environments



Motor: Variable Speed, 1800 RPM max.
230 VAC, 3 ϕ , 50/60 Hz.



FMI CeramPump® Valveless Metering



Our Unique Valveless Design

The valveless pumping/dispensing function is accomplished by the synchronous rotation and reciprocation of the ceramic piston in the precisely mated liner. One complete revolution is required for each suction/discharge cycle.

Need Application Assistance???

Call Us at 1-516-922-6050 or visit our convenient Application Questionnaire on the web @ www.fmipump.com.