

Operation	Step	Procedure
CALIBRATE	12	Turn CALIBRATION Knob to RUN position.
	13	Press RUN button once. A zero will appear in the display. (See Note 5)
RUN	14	Press RUN a second time to activate the pump motor.
	15	Press the STOP button when you wish to stop the flow.

NOTES: (1) Reverse direction is used when backflushing the tubing.

- (2) The RUN and STOP switches, or an external remote control, may be logged to obtain desired calibration volume.
- (3) 1 ml of water weighs 1 gram. (For other liquids, divide weight by the specific gravity).
- (4) The display will not show any FLOW RATE or CUMULATIVE VOLUME values until the calibration sequence has been completed.
- (5) Pressing RUN once commands the microprocessor to compute the numerical constants based on the value entered at the thumbwheel switches (15.2 in the example).

After the calibration sequence has been completed (Step 13), you can read FLOW RATE or CUMULATIVE VOLUME by turning the DISPLAY Selector Knob to either position.

SPECIFICATIONS

Digital Flow Controllers

Models	
7525-30	7525-34
7525-32	7525-36

Displays

Large five-digit high intensity LED indicators show following numerical values:

Flow Rate — From 0.01 to 99,999 ml/minute.

Cumulative Volume — From 0.1 to 9999.9 ml. Beyond 9999.9, the display automatically changes to the whole numbers (10,000 would be the next value). Capacity is 99,999. Extra capacity: If the 99,999 value is exceeded, the display automatically shows "O'FLO" alternately with any value over 99,999.

Pump Speed — 1 to 100 RPM (Models 7525-30 and 7525-32).
6 to 600 RPM (Models 7525-34 and 7525-36).
(Resolution of 1 RPM).
Line frequency is used as an accurate time base.

The following displays are shown for Flow Rate and Cumulative Volume prior to proper calibration (after priming):



NOMINAL FLOW RATE

For Standard Masterflex Pump Heads

Models	Speed Range (RPM)	Pump Head	Nominal Flow Rate (ml/sec.)	High Resolution Mode*
7525-34	6 to 600	7013	36	@ Flows less than 120 ml/min.
		7014	126 (@	
		7016	480 600	
7525-36	6 to 600	7015	1000 (RPM)	@ Flows less than 120 ml/min.
		7017, 7024	1680	
		7018	2280	
7525-30	1 to 100	7013	6	@ Flows less than 20 ml/min.
		7014	21 (@	
		7016	80 100	
7525-32	1 to 100	7015	167 (RPM)	@ Flows less than 20 ml/min.
		7017, 7024	280	
		7018	380	

* Automatic function; the system detects low flows through small tubing and displays resolution to 0.01 milliliter.

MOTOR

Heavy duty, 1/10 HP gear motor, totally enclosed, permanently lubricated, rated for continuous duty.

SPEED REGULATION

Tachometric feedback holds motor speed variations to less than 1% for a 10% change in line voltage.