



TP 1000 SERIES

Max Flow Rate: 4.57 LPM

TP 1000 V

The TP 1000 V is designed as an exact dose, extremely precise, metering or bottling peristaltic pump. The TP 1000 V can be operated in a semiautomatic mode or be fully integrated through the RS232 as an automatic filling or metering machine. With a flow rate range of .38 ml to .177 ml per minute, depending on tubing and rotor assembly selection, the TP 1000 V is an excellent choice for laboratories or filling operations that require repeatable and reliable filling or metering applications.

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As a stand-alone unit the TP 1000 V can be programmed through the touch screen provided or can be integrated into a PLC or computer control. The TP 1000 V also provides for a 4-20 mA or 0-10 VDC signal input provided from a variety of sensors and inputs.



KEY FEATURES

- Variance in each cycle of less than 1% provides accuracy and repeatability
- RS 232 interface or analog input of 0-10 VDC or 4-20 mA
- Four different tubing rotors available
- Flow rate range from 1.56 ml to 457 ml per minute
- Operates in a semiautomatic or fully automatic mode
- Excellent choice for laboratories or filling operations of intermediate volume requiring precision

APPLICATIONS

- Filling bottles for small to medium batch applications
- Precise metering against a discharge pressure 3 bar (43.5 psi)
- Biotechnology applications
- Medical and pharmaceutical applications
- Laboratory applications



TP 1000 SERIES Specifications

Catalog Part #	Rated Voltage	Rated Power	Display	Interface	Input Signal	Wt	L x W x H
TP 1000 V	230 VAC, 50/60 Hz, 1 Ph 115 VAC, 50/60 Hz, 1 Ph	35 W, 0.2 A, IP 20	LCD-2X6	RS-232	0 - 10 VDC or 4 - 20 mA	15.43 lbs	12.9" x 8.3" x 10"

Flow Rate - Water

Test results for water at ambient temperature with a suction and discharge length of 1 meter. In all cases the run time was for 30 minutes, and the tubing had been "broken in" by running it at least 30 minutes prior to testing. Please note that results may vary depending on fluid viscosity, intake hose length and other variables.

Rotor Assembly, ID - Wall	Speed %	FLOW - ml/min	FLOW - ounce/min
1.6 - 1.6	5%	1.56 ml/min	0.053 oz/min
	50%	17.45 ml/min	0.590 oz/min
	100%	35.04 ml/min	1.185 oz/min
3.2 - 1.6	5%	3.36 ml/min	0.114 oz/min
	50%	35.54 ml/min	1.202 oz/min
	100%	79.09 ml/min	2.674 oz/min
4.8 - 1.6	5%	11.20 ml/min	0.379 oz/min
	50%	121.90 ml/min	4.122 oz/min
	100%	257.75 ml/min	8.716 oz/min
6.4 - 1.6	5%	20.00 ml/min	0.676 oz/min
	50%	216.00 ml/min	7.304 oz/min
	100%	458.80 ml/min	15.514 oz/min

TP 1000 SERIES CAD Drawing

