



M1 CLASS

Single Piston Pumps with Excellent Capability at a Low Cost

The compact **M1 Class** consists of single-headed, positive displacement piston pumps that deliver high-performance and precision at an affordable price. Superior to Gear, Diaphragm, and Peristaltic pumps, the **M1 Class** provides greater performance at an equivalent cost to lesser-functioning products.

Applications include precise chemical metering, dispensing and specific HPLC separations. Standard fluid path materials are Stainless Steel and PEEK. With 10 mL/min, 40 mL/min, and 100 mL/min versions, reaching pressures up to 2,000 psi, these pumps capture the majority of typical laboratory fluid transfer applications.

Features include interactive keypad control, Pulse Dampener and Outlet Filter, RS-232 Serial and Micro USB 2.0 ports for complete PC control and status, as well as hardware for laboratory stand mounting. Having the smallest possible footprint for a high pressure pump, the **M1 Class** will easily integrate into any laboratory or industrial environment.

Components are also available in Kit Form for OEM Applications.



Flow Rate

10 mL/MIN
40 mL/MIN
100 mL/MIN

Pressure

Up To
2,000 PSI
(10 mL/MIN)

Fluid Path

STAINLESS STEEL,
PEEK OR
TITANIUM

Control

RS-232, MICRO USB

All SSI Pumps carry a 3-Year Warranty.



M1 CLASS - SPECIFICATIONS

Flow Rate Range and Max. Pressure Ratings*	0.00 - 10.00 mL/min (2,000 psi) 0.0 - 40.0 mL/min (500 psi) 0.0 - 100.0 mL/min (250 psi)	Wetted Materials	(See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE
Flow Accuracy	Within 2% of set flow rate, 0.20 mL/min and above; 80:20 Water/IPA @ 1,000 psi (10 mL) Within 5% of set flow rate, 0.8 mL/min and above; 80:20 Water/IPA @100 psi (40 mL) Within 5% of set flow rate, 2 mL/min and above; 80:20 Water/IPA @100 psi (100 mL)	Dimensions	5.5" H x 3" W x 10.5" D (14 x 7.6 x 26.7 cm)
Flow Precision	1.0% RSD	Weight	3.5 lbs. (1.6 kg)
		Power	External Power Supply; To Supply: 100-240 Vac, 50-60 Hz, 1A; Supply to Pump: 24VDC, center positive, 2.1 mm post, 1.7 AMP
		Control	RS-232, Micro USB

* Flow Rate is dependent on solvent selection and operating pressure.



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