

# ReaXus M1 Class

Single Piston Pumps with  
Excellent Capability at a Low Cost

The compact M1 Class HPLC Pump 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 material is Stainless Steel. 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.



# REAXUS

## FLOW RATE

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10 mL/min  
40 mL/min  
100 mL/min

## PRESSURE

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Up To 2,000 psi  
(10 mL/min)

## FLUID PATH

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Stainless Steel

## CONTROL

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RS-232, Micro USB, Run/Stop

# M1 CLASS—Model Selection Matrix

Single Piston Pumps with a Very Small Footprint, Designed for Dosing and Metering Applications

Use the Following Lists of Options and Option Codes to Construct Your Pump Model Number.

<u>M</u> <u>1</u>	<u>    </u> <u>    </u> <u>    </u>	<u>S</u>	<u>    </u>	<u>    </u>	<u>1</u>	<u>X</u>	<u>F</u>	<u>T</u> <u>L</u>
PUMP CLASS	FLOW RATE	MATERIAL	SELF-FLUSH	PULSE DAMPENER	PISTON SEAL	INLET/OUTLET	CONTROL MODE	
<b>M 1</b> = M1 Class	<b>0 1 0</b> = 10 mL/min (2,000 psi max.)  <b>0 4 0</b> = 40 mL/min (500 psi max.)  <b>1 0 0</b> = 200 mL/min (250 psi max.)	<b>S</b> = Stainless Steel Fluid Path	<b>F</b> = w/ Self-Flush Piston Wash  <b>N</b> = No Self-Flush	<b>P</b> = Pulse Dampener Only No Pressure or Leak Sensors  <b>N</b> = No Pulse Dampener No Pressure or Leak Sensors	<b>1</b> = Standard Seal (SS Energizer)	Standard	<b>F</b> = Flow (Constant)	

## Example Model Number: M1010SFP1XFTL

Please Note: Some features and options are not available with certain configurations.

## M1 CLASS—Specifications

Flow Rate Range and Max. Pressure Ratings*	0.0–10.00 mL/min (2,000 psi) 0.0–40.0 mL/min (500 psi) 0.0–100.0 mL/min (250 psi)	Dimensions	5.5" H x 3" W x 10.5" D (14 x 7.6 x 26.7 cm)
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)	Weight	3.5 lbs. (1.6 kg)
Flow Precision	1.0% RSD	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
Wetted Materials	(See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE	Control	RS-232, Micro USB, Run/Stop

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

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