



LD CLASS

Dual Piston Pumps for Low Pulsation Requirements

The versatile **LD Class** consists of dual-headed, positive displacement piston pumps, delivering unmatched performance for analytical, flash, and small-scale preparative chromatography applications. With the patented SSI low dead-volume Pulse Dampener, advanced cam technology and dual piston mechanism, the **LD Class** provides virtually pulse-free operation.

The pumps are designed for high flow rate accuracy and low pulsation required for Analytical Liquid Chromatography (HPLC). Standard fluid path materials are Stainless Steel and PEEK, in addition to optional Titanium. Other available features include jacketed heads for temperature controlled processes. With 12 mL/min, 24 mL/min, 36 mL/min, and 100 mL/min versions, reaching pressures up to 10,000 psi, these pumps will meet the performance requirements of demanding HPLC needs.

The high performance linear cams, along with automatic pressure compensation, provide precise flow rates for very accurate high pressure and low pressure gradients. Standard features include an integrated Prime-Purge Valve, Pulse Dampener, interactive keypad control, and complete PC control and status through RS-232 and Micro USB 2.0 ports. The **LD Class** provides the precise flow and low pulsation for the most challenging separations.

Components are also available in Kit Form for OEM Applications.



Several Fluid Path Materials Available



Drip Tray & Leak Sensor

Flow Rate
 12 mL/MIN
 24 mL/MIN
 36 mL/MIN
 100 mL/MIN

Pressure
 UP TO
10,000 PSI
 (24 mL/MIN)

Fluid Path
 STAINLESS STEEL,
 PEEK OR
 TITANIUM

Control
 RS-232, MICRO USB,
 VOLTAGE FLOW CONTROL,
 RUN/STOP

All SSI Pumps carry a 3-Year Warranty.



354 Tyler Road • Clear Brook, VA 22624 • 540-667-7044

LD CLASS - SPECIFICATIONS

Flow Rate Range and Max. Pressure Ratings*	0.000 - 12.000 mL/min (6,000 psi) 0.00 - 24.00 mL/min (10,000 psi) 0.00 - 36.00 mL/min (6,000 psi) 0.0 - 100.0 mL/min (1,000 psi)	Flow Accuracy	Within 2% of set flow rate, 0.200 mL/min and above; 80:20 Water/IPA @ 1,000 psi (12 mL, 24 mL) Within 2% of set flow rate, 0.80 mL/min and above; 80:20 Water/IPA @ 1,000 psi (36 mL)
Pulsation**	≤0.5% @ 1 mL/min and 1,000 psi (12 mL) ≤2% @ 1 mL/min and 1,000 psi (24 mL, 36 mL) ≤4% @ 50 mL/min and 250 psi (100 mL)	Dimensions	Within 2% of set flow rate, 2.0 mL/min and above; 80:20 Water/IPA @ 500 psi (100 mL) 6.3" H x 10" W x 17" D (16 x 25.4 x 43.2 cm)
Pressure Accuracy	±2% of full scale pressure	Weight	30 lbs. (13.6 kg)
Flow Precision	0.2% RSD (12 mL) 0.5% RSD (24mL, 36 mL, 100 mL)	Power	100-240 Vac (± 10%), 50-60 Hz
Wetted Materials	(See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE	Control	RS-232, Micro USB, Voltage Flow Control, Run/Stop

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

** Pulsation value with pulse dampener.



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