

ReaXus 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 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 Hastelloy. Other available features include jacketed heads for temperature controlled processes. With 12 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.



REAXUS

FLOW RATE

12 mL/min
36 mL/min
100 mL/min

PRESSURE

Up To 6,000 psi
(12 and 36 mL/min)

FLUID PATH

Stainless Steel, Jacketed Stainless Steel,
Hastelloy, Jacketed Hastelloy

CONTROL

RS-232, Micro USB, Run/Stop, Analog
(0-10V, 4-20mA)

LD CLASS—Model Selection Matrix

Dual Head Piston Pumps Specifically Designed for Analytical, Semi-Prep and Flash Chromatography

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

<u>L</u> <u>D</u>	— — —	—	<u>F</u>	—	—	<u>X</u>	—	<u>T</u> <u>L</u>
PUMP CLASS	FLOW RATE	MATERIAL	SELF-FLUSH	PULSE DAMPENER	PISTON SEAL	INLET/OUTLET	CONTROL MODE	
LD = LD Class	012 = 10 mL/min (6,000 psi max.) 036 = 36 mL/min (6,000 psi max.) 100 = 100 mL/min (1,000 psi max.)	S = Stainless Steel Fluid Path J = Jacketed Stainless Steel Fluid Path H = Hastelloy K = Jacketed Hastelloy	F = w/ Self-Flush Piston Wash	T = Pulse Dampener w/ Pressure & Leak Sensors X = No Pulse Dampener w/ Pressure & Leak Sensors	1 = Standard Seal (SS Energizer) 3 = Standard Seal (Fluoropolymer Energizer)	Standard	F = Flow (Constant) P = Pressure (Constant)	

Example Model Number: LD012SFT1XFTL

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

LD CLASS—Specifications

Flow Rate Range and Max. Pressure Ratings* 0.0–12.000 mL/min (6,000 psi)
0.0–36.00 mL/min (6,000 psi)
0.0–100.0 mL/min (1,000 psi)

Pulsation** ≤0.5% @ 1 mL/min and 1,000 psi (12 mL)
≤2% @ 1 mL/min and 1,000 psi (36 mL)
≤4% @ 50 mL/min and 250 psi (100 mL)

Pressure Accuracy ±2% of full scale pressure

Flow Precision 0.2% RSD (12 mL)
0.5% RSD (36 mL, 100 mL)

Flow Accuracy Within 2% of set flow rate, 0.200 mL/min and above; 80:20 Water/IPA @ 1,000 psi (12 mL)
Within 2% of set flow rate, 0.80 mL/min and above; 80:20 Water/IPA @ 1,000 psi (36 mL)
Within 2% of set flow rate, 2.0 mL/min and above; 80:20 Water/IPA @ 500 psi (100 mL)

Flow Precision 0.2% RSD

Wetted Materials (See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE

Dimensions 6.3" H x 10" W x 17" D
(16 x 25.4 x 43.2 cm)

Weight 30 lbs. (13.6 kg)

Power 100–240 Vac (± 10%), 50–60 Hz

Control RS-232, Micro USB, Run/Stop, Analog (0–10V, 4–20mA)

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

** Pulsation value with pulse dampener.

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