

ReaXus LS Class

High Performance Isocratic Pumps

The reliable LS Class consists of single-headed, positive displacement piston pumps incorporating advanced cam designs for very low pulsation.

With micro-stepping motor technology and a proven single-piston pump mechanism, the LS Class exceeds the performance of more expensive units at a fraction of the cost.

The pumps are ideal for a wide variety of HPLC applications (including Biocompatible separations), Semi-Prep LC, metering & dispensing, and general laboratory use. Standard fluid



path materials are Stainless Steel and Hastelloy. Other available features include jacketed heads for temperature controlled processes. With 10 mL/min, 40 mL/min and 100 mL/min versions available, and pressure capability up to 6,000 psi, these versatile pumps will meet the most demanding applications.

Features include automatic pressure compensation, Pulse Dampener, integrated Prime-Purge Valve, interactive keypad control, and complete PC control and status through RS-232 and Micro USB 2.0 ports. The unique LS Class provides the highest performance/cost ratio in a compact package.



REAXUS

FLOW RATE

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

PRESSURE

Up To 6,000 psi
(10 mL/min)

FLUID PATH

Stainless Steel, Jacketed Stainless Steel,
Hastelloy, Jacketed Hastelloy

CONTROL

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

LS CLASS—Model Selection Matrix

Single Piston Pumps with Accurate Flow Rates for Demanding HPLC Applications

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

<u>L</u> <u>S</u>	— — —	—	<u>F</u>	<u>T</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	
L S = LS Class	010 = 10 mL/min (6,000 psi max.) 040 = 40 mL/min (1,600 psi max.) 100 = 100 mL/min (600 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	1 = Standard Seal (SS Energizer) 3 = Standard Seal (FP Energizer)	Standard	F = Flow (Constant) P = Pressure (Constant)	

Example Model Number: LS010SFT1XFTL

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

LS CLASS—Specifications

Flow Rate Range and Max. Pressure Ratings* 0.0–10.00 mL/min (6,000 psi)
0.0–40.0 mL/min (1,600 psi)
0.0–100.0 mL/min (600 psi)

Pulsation** ≤2% @ 1 mL/min and 1,000 psi (10 mL, 40 mL)
≤4% @ 50 mL/min and 500 psi (100 mL)

Pressure Accuracy ±2% of full scale pressure

Flow Accuracy Within 2% of set flow rate, 0.20 mL/min and above; 80:20 Water/IPA @ 1,000 psi (10 mL)
Within 2% of set flow rate, 0.80 mL/min and above; 80:20 Water/IPA @ 1,000 psi (40 mL)
Within 4% of set flow rate, 5 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 6.5" H x 7" W x 16" D
(16.5 x 17.8 x 40.6 cm)

Weight 15.3 lbs. (6.9 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.

Teledyne ISCO

P.O. Box 82531, Lincoln, Nebraska, 68501 USA
Toll-free: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091
E-mail: isco.info@teledyne.com
teledyneisco.com



Teledyne ISCO is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.

L-5223 Rev 3.1
7/18