



# 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 Bio-compatible separations), Semi-Prep LC, metering & dispensing, and general laboratory use. 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 5 mL/min, 10 mL/min, and 40 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.

*Components are also available in Kit Form for OEM Applications.*



**Flow Rate**

5 mL/MIN  
10 mL/MIN  
40 mL/MIN

**Pressure**

Up To  
**6,000 psi**  
(5 mL/MIN OR 10 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.**



## LS CLASS - SPECIFICATIONS

<b>Flow Rate Range and Max. Pressure Ratings*</b>	... 0.000 - 5.000 mL/min (6,000 psi) 0.00 - 10.00 mL/min (6,000 psi) 0.0 - 40.0 mL/min (1,600 psi)	<b>Flow Precision</b> ..... 0.2% RSD
<b>Pulsation**</b>	..... ≤2% @ 1 mL/min and 1,000 psi	<b>Wetted Materials</b> ..... (See Above Options), Synthetic Ruby, Sapphire, UHMWPE, PTFE
<b>Pressure Accuracy</b>	..... ±2% of full scale pressure	<b>Dimensions</b> ..... 6.5" H x 7" W x 16" D (16.5 x 17.8 x 40.6 cm)
<b>Flow Accuracy</b>	..... Within 2% of set flow rate, 0.20 mL/min and above; 80:20 Water/IPA @ 1,000 psi (5 mL and 10 mL) ..... Within 2% of set flow rate, 0.80 mL/min and above; 80:20 Water/IPA @ 1,000 psi (40 mL)	<b>Weight</b> ..... 15.3 lbs. (6.9 kg) <b>Power</b> ..... 100-240 Vac (± 10%), 50-60 Hz <b>Control</b> ..... RS-232, Micro USB, Voltage Flow Control, Run/Stop

\* Flow Rate is dependent on solvent selection and operating pressure. \*\* Pulsation value with pulse dampener.



Clear Brook, VA 22624 •• 540-667-7044