

# 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.

PUMP CLASS	FLOW RATE	MATERIAL	SELF-FLUSH	PULSE DAMPENER	PISTON SEAL	INLET/OUTLET FITTINGS	SPECIAL OPTIONS
<b>LS</b> = LS Class	<b>0.5</b> = 5 mL/min (6,000 psi max.) <b>1.0</b> = 10 mL/min (6,000 psi max.) <b>4.0</b> = 40 mL/min (1,600 psi max.)	<b>S</b> = Stainless Steel Fluid Path <b>P</b> = PEEK Fluid Path <b>T</b> = Titanium Fluid Path <b>J</b> = Jacketed SS Pump Head	<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>T</b> = Pulse Dampener w/ Pressure & Leak Sensors <b>N</b> = No Pulse Dampener No Pressure or Leak Sensors <b>X</b> = No Pulse Dampener w/ Pressure & Leak Sensors	<b>1</b> = Standard Seal (SS Energizer) <b>2</b> = Organic Seal (SS Energizer) <b>3</b> = Standard Seal (FP Energizer) <b>4</b> = Organic Seal (FP Energizer) (Consult Factory) (SS : Stainless Steel) (FP : Fluoropolymer)	<b>A</b> = 1/4-28 ..... 1/16" CPI Flatbottom <b>B</b> = 1/8" CPI ... 1/16" CPI (SS only) <b>C</b> = 1/8" CPI ... 1/8" CPI (SS only) <b>D</b> = 1/4-28 ..... 1/4-28 Flatbottom Flatbottom	- - = Standard Product (leave blank for standard options & cabinet) X X = Customer Special (Consult Factory)

**Example Model Number :** **LS040SFPIA**

**Please Note:** Some features and options are not available with certain configurations. Please consult Scientific Systems, Inc. to verify model number before ordering.

## LS CLASS - SPECIFICATIONS

**Max. Flow and Pressure Ratings\*** 40 mL/min (1,000 psi)  
 10 mL/min (6,000 psi)  
 5 mL/min (6,000 psi)  
 ≤ ±2% for a flow rate of 0.20 mL/min and above with 80:20 Water/IPA @ 1,000 psi  
 0.2% RSD

**Flow Accuracy** ..... ≤ ±2% for a flow rate of 0.20 mL/min and above with 80:20 Water/IPA @ 1,000 psi  
 0.2% RSD

**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, Voltage Flow Control, Run/Stop

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

**All SSI Pumps carry a 3-Year Warranty.**

**SSI**  
 Scientific Systems, Inc.  
 an ISO9001 Company  
 www.ssihplc.com

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