

# 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

*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.*

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. 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-232C, micro-USB, and Ethernet serial communications. The unique LS Class provides the highest performance/cost ratio in a compact package.

# REAXUS

### FLOW RATE

---

5 mL/min  
40 mL/min  
100 mL/min

### PRESSURE

---

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

### FLUID PATH

---

Stainless Steel or PEEK

### CONTROL

---

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

## LS Class Specifications

	5 mL/min	10 mL/min	40 mL/min
<b>Flow Rate Range</b>	0.001 – 5.000 mL/min	0.01 – 10.00 mL/min	0.1 – 40.0 mL/min
<b>Flow Rate Increment</b>	0.001 mL/min	0.01 mL/min	0.1 mL/min
<b>Flow Rate Accuracy*</b>	±2% (0.500 – 5.000 mL/min; 80:20 Water/IPA; 1,000 psi)	±2% (1.00 – 10.00 mL/min; 80:20 Water/IPA; 1,000 psi)	±2% (4.0 – 40.0 mL/min; 80:20 Water/IPA; 1,000 psi)
<b>Flow Reproducibility</b>	1% RSD (0.500 – 5.000 mL/min; 80:20 Water/IPA; 1,000 psi)	1% RSD (1.00 – 10.00 mL/min; 80:20 Water/IPA; 1,000 psi)	1% RSD (0.5 – 40.0 mL/min; 80:20 Water/IPA; 1,000 psi)
<b>Maximum Delivery Pressure</b>	5,000 psi (PEEK) 6,000 psi (Stainless)	5,000 psi (PEEK) 6,000 psi (Stainless and Hastelloy)	1,500 psi
<b>Pressure Accuracy</b>	±50 psi		
<b>Pulsation</b>	≤1.5% @ 1 mL/min and 80:20 Water/IPA; 1,000 psi	≤1.5% @ 1 mL/min and 80:20 Water/IPA; 1,000 psi	≤2.0% @ 40 mL/min and 80:20 Water/IPA; 1,000 psi
<b>Piston Displacement</b>	25.1 µL	50.3 µL	201 µL
<b>Piston Wash</b>	Self-flushing pump heads – continuous wash without auxiliary pump		
<b>Wetted Materials</b>	<b>PEEK pumps may include:</b> PEEK, Synthetic Ruby, Sapphire, Zirconia, UHMWPE, FFKM, PFA, ETFE <b>Stainless Steel pumps may include:</b> 316 Stainless Steel, PEEK, Synthetic Ruby, Sapphire, Zirconia, UHMWPE, PFA, PTFE, ETFE		
<b>Dimensions (H x W x D)</b>	6.4" x 7.0" x 16.0" (16.3 x 17.8 x 40.6 cm)		
<b>Weight</b>	15.5 lbs (7.0 kg)		
<b>Power</b>	100 – 240 VAC (±10%), 50 – 60 Hz, 45 W		
<b>Front Panel</b>	5-digit LED to monitor flow rate, pressure, and indicate parameters and alarms. Run/Stop, Prime, and menu keys, seven status indicators, Increase/Decrease displayed parameters.		
<b>Communication</b>	RS-232, micro-USB, LAN (serial communications) Run/Stop TTL, Analog flow control (0 –10 V, 4 –20 mA)		
<b>Viscosity**</b>	0.5 – 3.0 cP	0.5 – 5.0 cP	0.5 – 9.4 cP
<b>Liquid Temperature</b>	0 – 82 °C		
<b>Environment</b>	Indoor use only (Pollution degree 2)		
<b>Altitude</b>	Up to 2000 m (6500 ft)		
<b>Ambient Temperature</b>	10 – 30 °C		
<b>Humidity</b>	20 – 90% relative humidity		

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

\*\*Range of fluid viscosities where published flow accuracy is maintained

### Teledyne ISCO

P.O. Box 82531, Lincoln, Nebraska, 68501 USA  
Toll-free: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091

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-7151 Rev 5.0  
07/21