

## L/S® PRECISION ANALOG CONSOLE PUMP SYSTEMS

### APPLICATIONS

- ▶ General transfer and metering
- ▶ Circulating bath pump
- ▶ Remote-controlled metering pump
- ▶ Acid-base feed
- ▶ Low-pressure filtration
- ▶ Small tank transfer and filling

### BENEFITS

- ▶ Simple keypad controls offer operational ease
- ▶ Powerful and cost-effective pump for precision transfer and metering applications
- ▶ Control pump speed remotely with 4 to 20 mA or 0 to 10 V signal
- ▶ Three-digit LED shows motor speed (rpm) for repeatability and monitoring performance
- ▶ Reversible motor—prime/purge and easily reverse direction of flow

### FEATURES

- ▶ PWM speed control for precision and efficiency; ±0.25% speed control accuracy
- ▶ Stackable ABS housing is IP33 rated for wipedown
- ▶ Universal voltage, 90 to 260 VAC autoselect, 50/60 Hz
- ▶ Soft-start 1/10-hp continuous-duty drive



77916-20



77916-10

### SPECIFICATIONS & ORDERING INFORMATION

ISO9001:2008  
CERTIFIED SUPPLIER



Catalog number	Flow range <sup>†</sup> (mL/min)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power (50/60 Hz)
<a href="#">HL-77916-10</a>	4.8 to 480	L/S Easy-Load® 3 77800-60	C-Flex® ULTRA L/S 16 06434-16; 3 m (10-ft)	L/S 13, L/S 14, L/S 16, L/S 25, L/S 17, L/S 18	07528-10	6 to 600	IP33	90 to 130 VAC, 2.2 A; and 190 to 260 VAC, 1.1 A
<a href="#">HL-77916-20</a>	17 to 1700	L/S Easy-Load II 77200-62	C-Flex ULTRA L/S 24 06434-24; 3 m (10-ft)	L/S 15, L/S 24, L/S 35, L/S 36				

<sup>†</sup>Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 68–73.

[HL-77595-35](#) **Foot switch**, momentary start/stop; 1.8-m (6-ft) cable.

[HL-07595-45](#) **DB9 male connector**, use to create your own cable.

[HL-17050-01](#) **NIST-traceable calibration** for peristaltic pump drive.

[HL-07595-47](#) **Cable assembly**, DB9 male connector and 7.9 m (25-ft) cable with stripped wire terminal ends. Use for remote control.

[HL-07523-98](#) **Tilt bail**; use to securely elevate front of drive.

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## L/S® MULTICHANNEL PUMP SYSTEMS

### APPLICATIONS

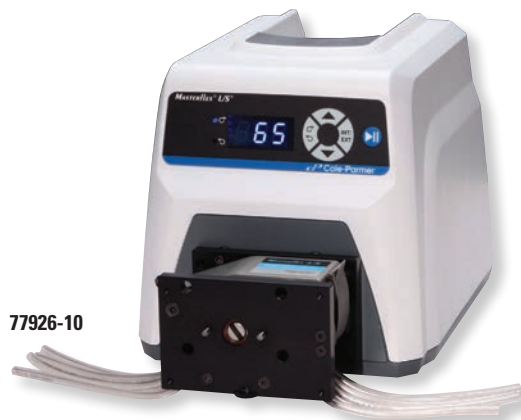
- ▶ Precision dispensing into multiple containers
- ▶ Transfer or meter fluids through multiple lines
- ▶ Rapid automated filling

### BENEFITS

- ▶ Control of multiple channels with a single drive reduces operating cost per channel
- ▶ Powerful metering and transfer pump with accurate speed control
- ▶ Synchronous flow from all four channels ensures accuracy when dispensing into multiple containers
- ▶ Reversible motor for purge before/after pumping; pump in either direction
- ▶ Simple keypad controls; bright, three-digit display of rpm for repeatability
- ▶ Remote control of speed and start/stop
- ▶ Accepts L/S two-stop tube sets for optimal tension with no adjustment
- ▶ Stackable ABS plastic housing wipes down for easy cleaning

### FEATURES

- ▶ Four-channel pump head
- ▶ 1/10-hp, continuous-duty drive with remote capability
- ▶ ±0.25% speed control accuracy



77926-10



77927-10

### SPECIFICATIONS & ORDERING INFORMATION

ISO9001:2008 CERTIFIED SUPPLIER ETL CE 2 year warranty

Catalog number	Flow range† (mL/min)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power (50/60 Hz)
<a href="#">HL-77926-10</a>	0.47 to 47	L/S four channel 07535-04	Tygon® E-LFL tube set, L/S 16 06447-16; pk of 8	L/S two-stop tube sets: L/S 13, L/S 14, L/S 16	07528-30	1 to 100	IP33	90 to 260 VAC
<a href="#">HL-77927-10</a>	2.8 to 280	L/S four channel 07536-04	Tygon E-LFL tube set, L/S 24 06447-24; pk of 4	L/S two-stop tube sets: L/S 15, L/S 24, L/S 35	07528-30	1 to 100	IP33	90 to 260 VAC

†Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order two-stop tube sets below and L/S extension tubing on pages 68-73.

[HL-77595-35](#) Foot switch, DB9 male. Use for start/stop operation.

[HL-07595-45](#) Connector, DB9 male. Use for 4-20 mA remote control.

[HL-17050-01](#) NIST-traceable calibration for peristaltic pump drive.

### COMPLETE SYSTEM INCLUDES:

**PUMP HEAD + TUBING + DRIVE**

### ADDITIONAL L/S TWO-STOP PRECISION PUMP TUBE SETS

Pump tubing		L/S Precision pump tubing			L/S High-performance precision pump tubing		
		L/S 13	L/S 14	L/S 16	L/S 15	L/S 24	L/S 35
Flow rate per channel (mL/min)	@ 1 to 100 rpm @ 6 to 600 rpm	0.045 to 4.5 0.27 to 27	0.16 to 16 0.96 to 96	0.47 to 47 2.8 to 280	1.6 to 160 10 to 1000	2.8 to 280 17 to 1700	3.8 to 380 23 to 2300
Tygon® E-LFL		<a href="#">HL-06447-13</a>	<a href="#">HL-06447-14</a>	<a href="#">HL-06447-16</a>	<a href="#">HL-06447-15</a>	<a href="#">HL-06447-24</a>	<a href="#">HL-06447-35</a>
Silicone (platinum-cured)		<a href="#">HL-06421-13</a>	<a href="#">HL-06421-14</a>	<a href="#">HL-06421-16</a>	<a href="#">HL-06421-15</a>	<a href="#">HL-06421-24</a>	<a href="#">HL-06421-35</a>
BioPharm Plus silicone (platinum-cured)		<a href="#">HL-96116-13</a>	<a href="#">HL-96116-14</a>	<a href="#">HL-96116-16</a>	<a href="#">HL-96116-15</a>	<a href="#">HL-96116-24</a>	<a href="#">HL-96116-35</a>
PharMed® BPT		<a href="#">HL-96114-13</a>	<a href="#">HL-96114-14</a>	<a href="#">HL-96114-16</a>	<a href="#">HL-96114-15</a>	<a href="#">HL-96114-24</a>	<a href="#">HL-96114-35</a>
Chem-Durance® Bio		<a href="#">HL-96117-13</a>	<a href="#">HL-96117-14</a>	<a href="#">HL-96117-16</a>	<a href="#">HL-96117-15</a>	<a href="#">HL-96117-24</a>	<a href="#">HL-96117-35</a>
Viton®		<a href="#">HL-96428-13</a>	<a href="#">HL-96428-14</a>	<a href="#">HL-96428-16</a>	<a href="#">HL-96428-15</a>	<a href="#">HL-96428-24</a>	<a href="#">HL-96428-35</a>
Qty/pk		8	8	8	4	4	4

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## L/S® PTFE-TUBING PUMP SYSTEM

### APPLICATIONS

- ▶ Transfer of aggressive chemicals
- ▶ Filtration
- ▶ High-purity pumping
- ▶ Chemical injection

### BENEFITS

- ▶ Excellent chemical compatibility for metering aggressive chemicals
- ▶ Higher pressures up to 6.9 bar (100 psi), low pulsation
- ▶ Inert PTFE tubing maintains fluid purity
- ▶ Adjustable occlusion
- ▶ Low maintenance

### FEATURES

- ▶ 1/10-hp, 3 to 300 rpm continuous-duty drive
- ▶ 2.4-m (8-ft) suction lift; 6.9 bar (100 psi) pressure capability



77912-10

### ADDITIONAL TUBING

- [HL-77390-60](#) PTFE tubing set, 6-mm OD, 4-mm ID. Set of two 38-cm (15") lengths
- [HL-06605-54](#) PTFE extension tubing, 6-mm OD. One 7.6-m (25-ft) length
- [HL-31321-64](#) Straight connector; 6 mm, 9.2 bar (135 psi) max

## SPECIFICATIONS & ORDERING INFORMATION



Catalog number	Flow range (mL/min)	Pump head included	Tubing included†	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power (50/60 Hz)
<a href="#">HL-77912-10</a>	0.75 to 65	L/S PTFE-tubing 77390-00	6-mm OD PTFE tubing set 77390-60	—	07528-20	3 to 300‡	IP33	90 to 260 VAC

†Also includes two 1/4" pipe adapters. ‡Recommended drive speed operating range for included pump head.

[HL-17050-01](#) NIST-traceable calibration for peristaltic pump drive.

### COMPLETE SYSTEM INCLUDES:

**PUMP HEAD** +

**TUBING** +

**DRIVE**

## L/S® PTFE-DIAPHRAGM PUMP SYSTEM

### APPLICATIONS

- ▶ Chemical feed and metering
- ▶ Chemical injection
- ▶ High-purity fluid transfer
- ▶ Pumping aggressive chemicals
- ▶ High-pressure pumping

### BENEFITS

- ▶ Continuous pressure up to 3.4 bar (50 psi); 5.2 bar (75 psi) intermittent
- ▶ Excellent chemical compatibility
- ▶ High metering accuracy
- ▶ Self-priming
- ▶ PTFE fluid path maintains fluid purity

### FEATURES

- ▶ 1/10-hp, 6 to 600 rpm continuous-duty drive
- ▶ ±0.25% speed control accuracy
- ▶ ABS plastic housing
- ▶ DB9 female connection on back for remote control



77915-10

## SPECIFICATIONS & ORDERING INFORMATION



Catalog number	Flow range (mL/min)	Pump head included	Tubing included†	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power (50/60 Hz)
<a href="#">HL-77915-10</a>	80 to 800	L/S PTFE diaphragm 07090-42	1/4" ID x 3/8" OD PTFE tubing 06605-15; 3.6 m (12 ft)	—	07528-10	40 to 400‡	IP33	90 to 260 VAC

†Also includes pipe adapters and check valve. ‡Recommended drive speed operating range for included pump head.

[HL-07090-43](#) Service kit includes diaphragm, check valves, installation tool and instructions.

[HL-07090-45](#) Check valve.

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## L/S® PRECISION MODULAR PUMP SYSTEMS

### APPLICATIONS

- ▶ Sterile fluid transfer
- ▶ Carboy or small tank pumping
- ▶ Chemical recirculation
- ▶ Printing
- ▶ Laboratory research
- ▶ Filtration
- ▶ Polishing/lapping

### BENEFITS

- ▶ Modular format lets you place drive and controller up to 1.8 meters (6 feet) apart
- ▶ Easy tubing changes
- ▶ Three-digit LED shows motor speed (rpm) for easy repeatability
- ▶ Reversible motor lets you purge tubing before or after pumping
- ▶ Optional remote control of speed, start/stop, and direction

### FEATURES

- ▶ Controller and chemical-resistant drive connected by 1.8-m (6-ft) cable
- ▶ Soft-start, 1/10-hp continuous-duty drive
- ▶ ±0.25% speed control



77913-70



77913-60

### SPECIFICATIONS & ORDERING INFORMATION

ISO9001:2008  
CERTIFIED SUPPLIER



Catalog number	Flow range <sup>1</sup> (mL/min)	Pump head included	Tubing included	Tubing sizes accepted	Drive included	Drive speed range (rpm)	Drive IP rating	Power (50/60 Hz)
<b>Precision modular pumps with benchtop controller</b>								
<a href="#">HL-77913-60</a>	4.8 to 480	L/S Easy-Load® 3 77800-60	C-Flex® ULTRA L/S 16 06434-16; 3 m (10 ft)	L/S 13, L/S 14, L/S 16, L/S 25, L/S 17, L/S 18	07577-00	6 to 600	IP33	90 to 130 VAC, 2.2 A; and 190 to 260 VAC, 1.1 A
<a href="#">HL-77913-70</a>	17 to 1700	L/S Easy-Load II 77200-62	C-Flex ULTRA L/S 24 06434-24; 3 m (10 ft)	L/S 15, L/S 24, L/S 35, L/S 36				
<b>Precision modular pump with washdown wall-mount controller</b>								
<a href="#">HL-77913-80</a>	17 to 1700	L/S Easy-Load II 77200-62	C-Flex ULTRA L/S 24 06434-24; 3 m (10 ft)	L/S 15, L/S 24, L/S 35, L/S 36	07577-60	6 to 600	IP66	90 to 130 VAC, 2.2 A; and 190 to 260 VAC, 1.1 A

<sup>1</sup>Flow range with included tubing; extend the flow range of these systems with additional sizes of tubing; order on pages 68–73.

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