kdScientific

Allegro™ Peristaltic Pump System

The Next Generation of Peristaltic Pumps

The NEW KD Scientific Allegro™ Peristaltic Pump System allows maintenance free, continuous flow pumping of various liquids. The fluid contacts only the inside surface of the tubing negating concern for valves, O-rings or seals that might be incompatible with fluid being pumped. This makes the Allegro ideal for life science, industrial, research and food & beverage applications.
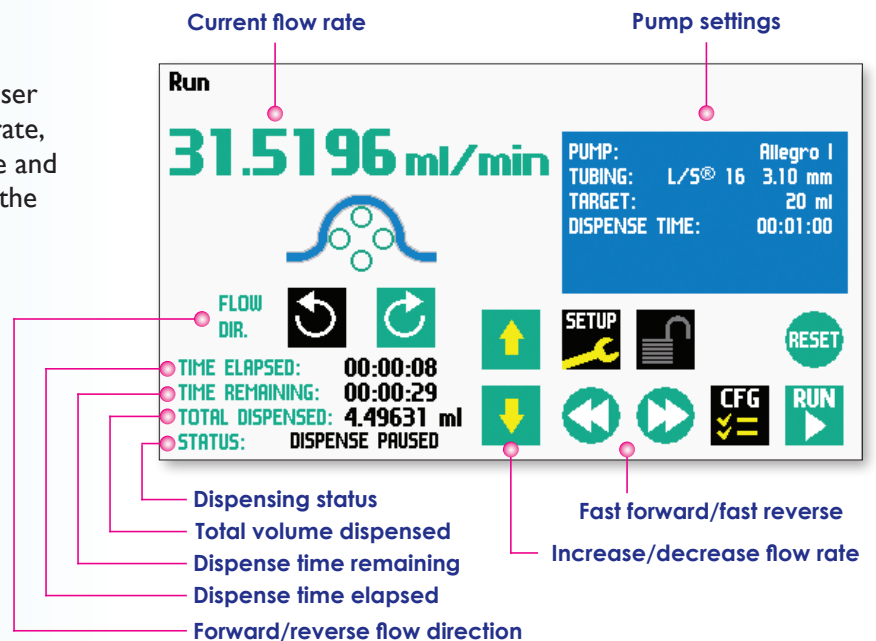
- Clearly displays flow rate and total dispensed volume
- User configurable multi-step operation
- Dispenses in forward or reverse direction
- Adjustable flow rate while pump is running
- Stackable sealed remote pump drive with IP 32 rating
- Selectable tubing table
- Automated tubing break-in
- Automated calibration procedures
- External connectivity with USB interface and I/O port
- Easy to maintain

Intuitive Touch Screen

The Allegro™ touch display run screen presents the user with all key dispensing parameters in real time. Flow rate, flow direction, dispense status, total dispensed volume and tubing selection parameters are clearly presented on the high resolution touch screen display.

- Intuitive graphical interface and touch screen
- Flow rate and key parameters clearly displayed
- Internationally recognized icons
- All program settings are indicated on the touch screen
- Alarm indication and messages
- Pump diagnostic/information
- Display rotates with horizontal/vertical orientation

Current flow rate · Pump settings · Dispensing status · Total volume dispensed · Dispense time remaining · Dispense time elapsed · Forward/reverse flow direction · Fast forward/fast reverse · Increase/decrease flow rate

The Allegro™ I, II & III are available as complete systems. An optional footswitch for remote start/stop, TTL communication cable for synchronous control and other accessories are available. Tubing is sold separately.

Allegro™ System Ordering Information

Order #	Product Name	Description
System		
785501	Allegro™ I Peristaltic Pump System	Single channel, Masterflex® Pump Head, drive and controller
785502	Allegro™ II Peristaltic Pump System	Dual channel, Masterflex® Pump Head, drive and controller
785503	Allegro™ III Peristaltic Pump System	Two, single channel, Masterflex® Pump Head, drive and controller
Accessories		
780225	Allegro™ Footswitch	Footswitch with phono jack plug for Allegro™ I, II, & III
785531	Allegro™ I to III Conversion Kit	Single channel, thin wall tubing head and hardware
785542	Allegro™ Stacking Base	Allows two Allegro™ head/drive units to be vertically stacked
788355	TTL Communication Cable	Connects two Allegro™ controllers for programmable control

Allegro™ Flow Rates

Tubing Size	Tubing ID	Maximum Flow Rate
Allegra™ I		
LS® 13	0.8 mm (0.03 in)	15 ml/min
LS® 14	0.6 mm (0.06 in)	60 ml/min
LS® 16	3.1 mm (0.12 in)	240 ml/min
LS® 25	4.8 mm (0.19 in)	520 ml/min
LS® 17	6.4 mm (0.25 in)	960 ml/min
LS® 18	7.9 mm (0.31 in)	1500 ml/min
Allegra™ II		
LS® 13	0.8 mm (0.03 in)	10 ml/min
LS® 14	0.6 mm (0.06 in)	40 ml/min
LS® 16	3.1 mm (0.12 in)	160 ml/min
LS® 25	4.8 mm (0.19 in)	360 ml/min
Allegra™ III		
LS® 13	0.8 mm (0.03 in)	10 ml/min
LS® 14	1.6 mm (0.06 in)	40 ml/min
LS® 16	3.1 mm (0.12 in)	160 ml/min
LS® 25	4.8 mm (0.19 in)	360 ml/min
LS® 17	6.4 mm (0.25 in)	640 ml/min
LS® 18	7.9 mm (0.31 in)	1000 ml/min

Tubing Ordering Information

Order #	Tubing Size	Tubing ID	Description

C-Flex® Ultra

Characteristics
C-Flex® Ultra is a transparent tubing comprised of a silicone like material with the chemical compatibility of Tygon®.
Formulation: Thermoplastic elastomer. Styrene-ethylene-butylene modified block coploymer with silicon oil.

Application Compatibility
Acids: Good • Alkalies: Good • Organic Solvents: No • Viscous Fluids: Fair Sterile Fluids: Excellent

Order #	Tubing Size	Tubing ID	Description
785601	L/S® 14	1.6 mm (0.06 in)	7.6 m (25 ft)/pk
785602	L/S® 16	3.1 mm (0.12 in)	7.6 m (25 ft)/pk
785603	L/S® 25	4.8 mm (0.19 in)	7.6 m (25 ft)/pk
785604	L/S® 17	6.4 mm (0.25 in)	7.6 m (25 ft)/pk
785605	L/S® 18	7.9 mm (0.31 in)	7.6 m (25 ft)/pk

FDA Viton®

Characteristics
FDA Viton® is an opaque, black tubing perfect for food applications where FDA compliance is required. Resistant to corrosives, solvents and oils at elevated temperatures.
Formulation: Thermal set rubber. Viton® B (67% fluorine).

Application Compatibility
Acids: Excellent • Alkalies: Excellent • Organic Solvents: Test First Viscous Fluids: Good Sterile Fluids: Fair

Order #	Tubing Size	Tubing ID	Description
785606	L/S® 13	0.8 mm (0.03 in)	7.6 m (25 ft)/pk
785607	L/S® 14	1.6 mm (0.06 in)	7.6 m (25 ft)/pk
785608	L/S® 16	3.1 mm (0.12 in)	7.6 m (25 ft)/pk
785609	L/S® 25	4.8 mm (0.19 in)	7.6 m (25 ft)/pk
785610	L/S® 17	6.4 mm (0.25 in)	7.6 m (25 ft)/pk
785611	L/S® 18	7.9 mm (0.31 in)	7.6 m (25 ft)/pk

Tygon® ELFL

Characteristics
Tygon® ELFL is a clear tubing with long life and broad chemical resistance.
Formulation: Thermoplastic. PVC based material with plasticizer. Firm transparent material.

Application Compatibility
Acids: Good • Alkalies: Good • Organic Solvents: No • Viscous Fluids: Excellent Sterile Fluids: Good

Order #	Tubing Size	Tubing ID	Description
785612	L/S® 13	0.8 mm (0.03 in)	7.6 m (25 ft)/pk
785613	L/S® 14	1.6 mm (0.06 in)	7.6 m (25 ft)/pk
785614	L/S® 16	3.1 mm (0.12 in)	7.6 m (25 ft)/pk
785615	L/S® 25	4.8 mm (0.19 in)	7.6 m (25 ft)/pk
785616	L/S® 17	6.4 mm (0.25 in)	7.6 m (25 ft)/pk
785617	L/S® 18	7.9 mm (0.31 in)	7.6 m (25 ft)/pk

Tygon® E-Food

Characteristics
Tygon® E-FOOD is a clear tubing designed especially for food products. The bore is smooth and the tubing is non-toxic.
Formulation: Thermoplastic. PVC based material with plasticizer. Firm transparent material.

Application Compatibility
Acids: Good • Alkalies: Good • Organic Solvents: No • Viscous Fluids: Excellent Sterile Fluids: Fair

Order #	Tubing Size	Tubing ID	Description
785618	L/S® 13	0.8 mm (0.03 in)	15.2 m (50 ft)/pk
785619	L/S® 14	1.6 mm (0.06 in)	15.2 m (50 ft)/pk
785620	L/S® 16	3.1 mm (0.12 in)	15.2 m (50 ft)/pk
785621	L/S® 25	4.8 mm (0.19 in)	15.2 m (50 ft)/pk
785622	L/S® 17	6.4 mm (0.25 in)	15.2 m (50 ft)/pk
785623	L/S® 18	7.9 mm (0.31 in)	15.2 m (50 ft)/pk