

L/S® EASY-LOAD® 3 PUMP HEADS

FEATURES/BENEFITS

- ▶ Deliver flow rates from 0.06 to 2900 mL/min
- ▶ Automatic tubing retention speeds tube loading and fluid changeover
- ▶ Same side tubing entry/exit for easy integration into space-limited applications
- ▶ Long occlusion surface prevents fluid backflow
- ▶ Included mounting plate adapts head to L/S drives
- ▶ Mount and operate head in any of four positions
- ▶ Locking tab secures head during operation in either direction of rotation
- ▶ Twist-lock mounting feature lets you mount and stack heads in seconds without tools or hardware
- ▶ Stackable for multiple-channel pumping and increased flow capacity
- ▶ Pump heads accept several tubing sizes

SELECTION CRITERIA

1. Flow rate/tube size desired.
2. Materials of construction (rotor).
3. Compatibility with drives.

Silicone tubing (43 cm or 17") and mounting plate/adaptor supplied.

See specifications for more information.

Order tubing and drives separately.

COMPATIBILITY WITH DRIVES

- ▶ Mount on all drives accepting Masterflex L/S pump heads

NOTES

Use only Masterflex pump tubing with Masterflex pumps to ensure optimal performance. Use of other tubing may void applicable warranties.

PUMP HOUSING SPECIFICATIONS

Polypropylene (PP)

- ▶ General-purpose applications
- ▶ Good protection from corrosive liquids/vapors
- ▶ Select from CRS/Buna N or 400-series SS/PTFE shielded ball bearing

ROLLER/ROTOR SPECIFICATIONS

Plated Cold-Rolled Steel (CRS)

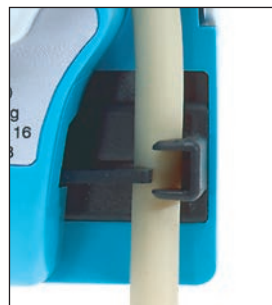
- ▶ General-purpose applications
- ▶ Humidity: 0 to 90%
- ▶ Ball-bearing construction
- ▶ Continuous duty up to 600 rpm
- ▶ Precision and high-performance precision tubing versions

300-Series Stainless Steel (SS)

- ▶ Corrosive fluids
- ▶ Humidity: 0 to 90%
- ▶ PTFE shielded ball-bearing construction (highest life expectancy)
- ▶ Continuous duty up to 600 rpm
- ▶ Precision and high-performance precision tubing versions

MULTICHANNEL CAPABILITIES

- ▶ Mount up to four Easy-Load 3 pump heads on a single drive without tools or hardware



Tubing retainers automatically stretch and grip tubing when head is closed.

ORDERING INFORMATION

Pump tubing size	PP housing	
	CRS rotor	SS rotor
For Precision tubing		
L/S 13		
L/S 14		
L/S 16	HL-77800-50	HL-77800-60
L/S 25		
L/S 17		
L/S 18		
For High-performance precision tubing		
L/S 15		
L/S 24	HL-77800-52	HL-77800-62
L/S 35		
L/S 36		

PP = polypropylene CRS = cold-rolled steel
SS = stainless steel

L/S PUMP TUBING FLOW RATE INFORMATION

Order Masterflex L/S pump tubing separately on pages 68–73.

Tubing cross sections	L/S Precision pump tubing						L/S High-performance Precision pump tubing			
	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18	L/S 15	L/S 24	L/S 35	L/S 36
Flow rate—mL/rev	0.06	0.21	0.8	1.7	2.8	3.8	1.7	2.8	3.8	4.8
mL/min @ 600 rpm	36	130	480	1000	1700	2300	1000	1700	2300	2900
Max pressure [†]	2.7 bar (40 psi)			2.4 bar (35 psi)	1.4 bar (20 psi)	1.0 bar (15 psi)	2.0 bar (30 psi)		1.7 bar (25 psi)	1.4 bar (20 psi)
Max vacuum [†]	660 mm Hg (26" Hg)				510 mm Hg (20" Hg)		660 mm Hg (26" Hg)			
Suction lift	8.8 m H ₂ O (29 ft H ₂ O)				6.7 m H ₂ O (22 ft H ₂ O)		8.8 m H ₂ O (29 ft H ₂ O)			

[†]Actual performance varies depending upon tubing materials—see pages 20–24 and 172–192 for more information.

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