Masterflex[®] L/S[®]

L/S[®] VARIABLE-SPEED ECONOMY DRIVES

FEATURES/BENEFITS

- Perfect upgrade from a fixed-speed drive to a variable-speed system
- Deliver flow rates from 0.42 to 2900 mL/min with Masterflex® L/S pump heads
- Deliver flow rates from 0.0035 to 1700 mL/min with cartridge pump heads
- Wide flow control range (30:1 turndown)
- Long-lasting, stackable steel housing
- Ideal for low-flow metering or general fluid transfer
- Safe, reliable continuous-duty motor
- Unidirectional operation
- Multichannel pumping

DRIVE CONTROLS

- All manual controls are on the front panel
- Single-turn potentiometer for speed control
- On/off switch, green power-on indicator

SETUP

- 1. Mount pump head and load tubing.
- 2. Turn pump on.
- 3. Adjust flow rate with potentiometer.

SELECTION CRITERIA

- 1. Motor rpm/flow rate.
- 2. Voltage required.
- 3. Pump heads accepted.

Order pump heads and tubing separately.

SPEED CONTROL/CIRCUITRY

- Single-turn potentiometer
- Solid-state circuit
- Soft-start for no power surges
- Speed not affected by minimum variations in line voltage or frequency
- Switch: 0N/0FF
- Meets or exceeds UL, CSA, EN, and selected IEC limits



L/S variable-speed console drive 07554-90 with L/S Easy-Load pump head 07518-12

MOTOR SPECIFICATIONS

- Permanently lubricated
- Designed around a 90 or 180 VDC motor

PUMP HEADS ACCEPTED

Drive accepts nine different pump heads:

Use drives 07554-90 and 07554-95 with

High-Performance, Multichannel, and

Cartridge pump heads only when loaded with

C-FLEX[®] or silicone tubing. Do not use these 600-rpm drives with the PTFE-tubing or PTFE-diaphragm pump heads.

Standard Easy-Load® 3 Easy-Load II Easy-Load PTFE-Diaphragm

Notes

ferent pump heads: High-Performance PTFE-Tubing Multichannel Multichannel Cartridge



Ordering Information

Catalog number	rpm	Power (50/60 Hz)	
MK-07554-90	20 to 600	90 to 130 VAC	
MK-07554-95	20 to 600	180 to 260 VAC	
MK-07554-80	7 to 200	90 to 130 VAC	
MK-07554-85	/ 10 200	180 to 260 VAC	

ACCESSORIES

MK-17050-01 NIST-traceable calibration for peristaltic pump drive.

L/S PUMP TUBING FLOW RATE INFORMATION (ML/MIN)

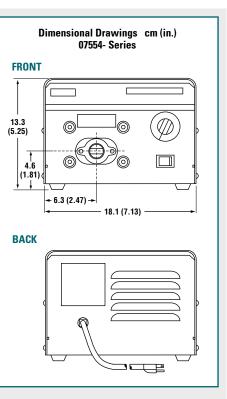
Order Masterflex L/S pump tubing separately.

	L/S Precision pump tubing					L/S High-performance Precision pump tubing				
Tubing cross sections	0	0	Ο	0	Ο	Ο	0	0	0	0
	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 range @ 20 to 600 rpm	1.2 to 36	4.2 to 130	16 to 480	34 to 1000	56 to 1700	76 to 2300	34 to 1000	56 to 1700	76 to 2300	96 to 2900
Flow range @ 7 to 200 rpm	0.42 to 12	1.4 to 43	5.6 to 160	12 to 330	20 to 570	27 to 770	12 to 330 (13 to 370)	20 to 570 (21 to 600)	27 to 770 (30 to 870)	34 to 970 (41 to 1130)

Note: Flow rates in parentheses can be obtained only with L/S High-Performance pump heads.

SPECIFICATIONS for L/S Variable-Speed Economy Drives

Catalog number		MK-07554-90	MK-07554-95	MK-07554-80	MK-07554-85		
Performance Sp	ecifications						
Flow capacity		1.2 to 2900 mL/min (0 to 46 GPH)		0.42 to 970 mL/min (0 to 15 GPH)			
rpm		20 to	o 600	7 to 200			
Number of head	s accepted	1		2			
Maximum torque	Starting	191 N-cm (270 oz-in)		381 N-cm (540 oz-in)			
	Running	64 N-cm (90 oz-in)		127 N-cm (180 oz-in)			
Reversible		N		lo			
External control – Input		Not applicable					
External control	– Output	Not applicable					
Electrical Speci	fications						
Voltage/frequency VAC (50/60 Hz)		90 to 130	180 to 260	90 to 130	180 to 260		
Current		1.5 A	0.8 A	1.5 A	0.8 A		
Fuse rating		2.0 A / 250 V	1.0 A / 250 V	2.0 A / 250 V	1.0 A / 250 V		
Motor type		Continuous-duty, permanent magnet DC					
Motor size		37 W (½0 hp)					
Motor/speed control type		Single-turn potentiometer, solid-state					
Speed regulation (repeatability)		±5% (±3%)					
Soft start/Electronic brake		Yes/No					
Physical Specifi	cations						
Housing materials		Painted steel					
IP rating		IP22					
Agency listings		UL, cUL, CE					
Operating tempe	rature	0 to 40°C (32 to 104°F)					
Storage tempera		-25 to 65°C (-13 to 149°F)					
Dimensions (L x	W x H)	22.9 x 18.1 x 13.3 cm (9" x 71/8" x 51/4")					
Shipping weight			3.7 kg	ı (8 lb)			



24-Hour Protection The Liqui-Sense® emergency of system protects you from pump problems 24 hours a day. Detect of a leak or a high/low liquid let tank signals the Liqui-Sense co to turn off your pump and turn of back-up.	ut-off bing ttion vel in a introller	More Info Request your FREE Masterflex Tubing Test Kit to test compatibility of your chemicals against different tubing formulations. Request item MK-00101-10. Call today!	ainst
STANDARD 0.42 to 2900 mL/min	High-Performance 12 to 3400 mL/min 		
EASY-LOAD [®] 3 0.42 to 2900 mL/min	CALCULAR CONTRACTOR CO		
EASY-LOAD® II 0.42 to 2900 mL/min	MULTICHANNEL 4- or 8-channel for microbore tubing 0.02 to 200 mL/min		
EASY-LOAD® 0.42 to 2300 mL/min	2-, 4-, or 8-channel for L/S® Precision tubing 0.32 to 2300 mL/min		

For more information:

800-637-3739 or 847-381-7050 ColeParmer.com/fluidhandling fluidhandling@coleparmer.com



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Cole-Parmer®