







# Pump Selection Guide for Masterflex® L/S® Series Pumps



	L/S® Precision Tubing						L/S® High Performance Precision Tubing			
<b>Tubing Size</b>	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
<b>Inside Diameter (in)</b>	1/32	1/16	1/8	3/16	1/4	5/16	3/16	1/4	5/16	3/8
<b>Outside Diameter (in)</b>	5/32	3/16	1/4	5/16	3/8	7/16	3/8	7/16	1/2	9/16
<b>Wall Thickness (in)</b>	1/16	1/16	1/16	1/16	1/16	1/16	3/32	3/32	3/32	3/32
<b>Hose Barb Size</b>	1/16	1/16	1/8	3/16	1/4	3/8	3/16	1/4	3/8	3/8
<b>Pump Head</b>	<b>1 or 2</b>						<b>1, 2 or 3</b>			
<b>Flow range with 1 and 2 (with 600 RPM Drive)</b>	0.36 to 36	1.3 to 130	4.8 to 480	10 to 1000	17 to 1700	23 to 2300	10 to 1000	17 to 1700	23 to 2300	29 to 2900
<b>mL per Rev with 1 and 2</b>	0.06	0.22	0.8	1.7	2.8	3.8	1.7	2.8	3.8	4.8
<b>Flow range with 3</b>							11 to 1100	18 to 1800	26 to 2600	34 to 3400
<b>mL per Rev with 3</b>							1.8	3.0	4.3	5.8

L/S® Pump Heads	# of rollers	Max Pressures, psi (continuous/intermittent)*	Tubing	CRS Rotor Item #	SS Rotor Item #	SS Rotor w/ adj. Occlusion** Item #
<b>1</b>  <b>L/S Easy-Load® II</b> Easy Tubing Changes, tubing retention <b>Catalog page 1436</b>	<b>4</b>	<b>25/40:</b> 13, 14, 16, 15, 24 <b>20/35:</b> 25, 35 <b>15/20:</b> 17, 36 <b>10/15:</b> 18	L/S Precision;	<b>77200-50</b>	<b>77200-60</b>	<b>77201-60</b>
			L/S High Performance Precision	<b>77200-52</b>	<b>77200-62</b>	<b>77201-62</b>
<b>2</b>  <b>L/S Easy-Load® 3</b> Easy Tubing Changes, tubing retention; Same side entry/exit <b>Catalog page 1434</b>	<b>3</b>	<b>25/40:</b> 13, 14, 16, 15, 24 <b>20/35:</b> 25, 35 <b>15/20:</b> 17, 36 <b>10/15:</b> 18	L/S Precision;	<b>77800-50</b>	<b>77800-60</b>	
			L/S High Performance Precision	<b>77800-52</b>	<b>77800-62</b>	
<b>3</b>  <b>L/S Pump High-Performance Head</b> Highest flow rate; Stainless steel design; Same side entry/exit <b>Catalog page 1439</b>	<b>3</b>	<b>25/40:</b> 15, 24 <b>20/35:</b> 35 <b>15/20:</b> 36	L/S High Performance Precision		<b>77250-62</b>	

\* can be used for higher pressures with 100 RPM drive and Size 16HP and 15HP tubing that is only for use with the High-performance pump head  
 \*\* tighten occlusion for higher pressure, release for longer tubing life)

L/S® Pump Drives (600 RPM)		Cole Parmer Info	RPMs	IP Rating
<b>1</b> 	<b>L/S Standard Analog Drive</b> Local/remote switch on back; 10-turn potentiometer for local; speed control and switch for local; forward/reverse	<b>Catalog page 1462</b> <b>Item #07520-40</b>	<b>6 to 600</b>	<b>23</b>
<b>2</b> 	<b>L/S Digital Drive</b> Local/remote button on front; Tubing selection with digital flow control and selection on front panel; forward/reverse local and remote possible; Many other advanced features	<b>Catalog page 1466</b> <b>Item #07523-60</b>	<b>10 to 600</b>	<b>23</b>
<b>3</b> 	<b>L/S Stainless Steel Drive</b> Same features as Digital Drive but in stainless steel housing	<b>Catalog page 1472</b> <b>Item #07575-00</b>	<b>10 to 600</b>	<b>66 (NEMA 4X)</b>

