

L/S® Precision Variable-Speed Console Drives

NEW



Precision variable-speed drive
07528-10

Easy-to-use drives offer precise speed control and digital display of rpm—ideal for metering applications

- Flow rate 0.6 to 3400 mL/min (depends on drive rpm and tubing size)
- Four digit LED display shows motor rpm—confirm speed setting at a glance
- Reversible motor—purge tubing before or after pumping; pump fluid in either direction
- LED indicators confirm motor direction
- Powerful motors let you stack 2 or 4 pump heads for increased flow rates and for multichannel applications
- Membrane keypad for easy up-front control of speed, direction, and start/stop
- Separate speed and power (on/off) control—maintain speed setting while turning pump on/off
- Stackable, splash-resistant ABS plastic housing; IP33 rated
- Remote control capabilities via a DB9 female connector on back of drive
 - Speed control input
 - Pump direction (CW/CCW) via open collector or contact closure
 - Start/stop via open collector or contact closure

These accurate analog console drives have powerful motors, speed display, and $\pm 0.25\%$ speed control for precise flow regulation—ideal for metering applications. Remote speed control requires DB9 male connector 07595-45 or cable assembly 07595-47. Use remote connector for control of start/stop via contact closure or open collector (5 V TTL); or control start/stop via footswitch 77595-35. Order control accessories on facing page.

What's included: 6-ft (1.8-m) line cord with IEC 320/CEE22 socket. These models are shipped with country-specific plug/cord set; please specify ultimate destination when ordering.



To increase flow rates, stack pump heads on the L/S precision variable-speed drive; check drive specifications for number of heads accepted.

TECHNICAL information!

Variable-speed console drives accept nine different pump head types: Standard, Easy-Load®, Easy-Load® II, Easy-Load® 3, Multichannel, High-Performance, Cartridge, PTFE-Tubing, and PTFE-Diaphragm.



77595-35



DB9 connector on back of drive lets you control drive remotely; see "Accessories" on facing page.

Flow Range
0.06 to 3400 mL/min

MASTERFLEX®
Drives



Flow rates in mL/min (flow rates in parentheses can only be obtained with the High-Performance pump head—see page 1201)

rpm	Precision pump tubing						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
	Standard†, Easy-Load, Easy-Load II, Easy-Load 3						Multichannel‡, Standard, Easy-Load II, Easy-Load 3, High-Performance			
	Cartridge, Multichannel			Cartridge			Easy-Load			
6 to 600	0.36 to 36	1.3 to 130	4.8 to 480	10 to 1000	17 to 1700	23 to 2300	10 to 1000 (11 to 1100)	17 to 1700 (18 to 1800)	23 to 2300 (26 to 2600)	29 to 2900 (34 to 3400)
3 to 300	0.18 to 18	0.65 to 65	2.4 to 240	5 to 500	8.5 to 850	11.5 to 1150	5 to 500 (5.5 to 550)	8.5 to 850 (9 to 900)	11.5 to 1150 (13 to 1300)	14.5 to 1450 (17 to 1700)
1 to 100	0.06 to 6	0.21 to 21	0.8 to 80	1.7 to 170	2.8 to 280	3.8 to 380	1.7 to 170 (1.8 to 180)	2.8 to 280 (3.0 to 300)	3.8 to 380 (4.3 to 430)	4.8 to 480 (5.8 to 580)

†The Standard pump head is not available for L/S® 25. ‡Multichannel head is not available for L/S® 36. Multichannel and Cartridge heads are available for microbore tubing.

Specifications & Ordering Information (for all drives on these two pages)



Catalog number	rpm	Speed control (resolution)	Pump heads accepted	Motor size	IP rating	Dimensions (L x W x H)	Power (50/60 Hz)		Price
							VAC	Amps	
SN-07528-10	6 to 600	±0.25% (1 rpm at 600 rpm; 0.1 rpm at 100 rpm)	2	1/10 hp (75 W)	IP33	10" x 8.5" x 8.5" (25.4 x 21.6 x 21.6 cm)	90 to 260	1.8 at 115 VAC, 1.2 at 230 VAC	
SN-07528-20	3 to 300		2						
SN-07528-30	1 to 100		4						

Accessories for 07528-series drives

- SN-07595-45 Connector, DB9 male. Use for 4 to 20 mA remote control
- SN-07595-47 Cable assembly, DB9 male connector and 25 ft (7.9 m) cable with stripped wire terminal ends. Use for remote control.
- SN-77595-35 Foot switch, DB9 male
- SN-07523-98 Tilt bail, use to securely elevate front of drive.

MORE information!

Use only Masterflex® pump tubing with Masterflex® tubing pumps to ensure accuracy and optimum performance. Use of other tubing may void applicable warranties.



Complete L/S® Variable-Speed Pump Systems

Complete Systems 1 and 2 include:

Pump Head	+	Tubing	+	Drive
1 L/S® Easy-Load® 3 pump head 77800-60 (pages 1196–1197)		Tygon® LFL L/S® 16 tubing 06429-16 10 ft (3 m) (pages 1212–1213)		Precision standard drive 07528-10 6 to 600 rpm (above)
2 L/S Easy-Load II pump head 77200-62 (pages 1198–1199)		Tygon LFL L/S 24 tubing 06429-24 10 ft (3 m) (pages 1214–1215)		Precision standard drive 07528-10 6 to 600 rpm (above)

Ordering Information—Complete Pump Systems 1 and 2

Key	Catalog number	Description	Power (VAC, Hz)	Price
1	SN-77916-10	L/S Precision standard pump with Easy-Load® 3 pump head	90 to 260, 50/60	
2	SN-77916-20	L/S Precision standard pump with Easy-Load® II pump head	90 to 260, 50/60	



Tubing Weights

Flow-through weights of PTFE keep tubing in place in receiving vessel during dispense cycles. Fit Masterflex L/S tubing sizes noted.

Catalog number	Description	Price
DY-78226-81	Weight for L/S 16, 15, and 25	
DY-78226-82	Weight for L/S 17, 18, 24, 35, 36	
DY-77310-03	Set of two; one each of 78226-81 and 78226-82	



Tech Information Masterflex® C/L® Masterflex® L/S® Masterflex® I/P® Masterflex® B/T® Accessories & Parts