

Variable-Speed Brushless Digital Pumps





- Wide flow ranges; durable, powerful motors; and easy-to-read digital displays
- Maintenance-free reversible motor—quiet operation and no brushes to replace
- Precise PWM speed control maximizes accuracy and efficiency
- · Dual voltage: 115 VAC and 230 VAC
- Four-digit LED display shows four different parameters: flow rate, dispense volume, copy, and motor rpm
- Reversible flow, remote control, and tachometer feedback
- Keypad lock feature prevents accidents or tampering
- Field calibration function allows more accurate flow when installed in system
- 1.8-m (6-ft) line cord features IEC 320/CEE22 socket



## Washdown Brushless Digital Pump with Wall-Mount Controller

- Designed for accurate metering and low maintenance operations
- Feature a IP56-rated wall-mount controller and full-featured remote control capabilities
- Maintenance-free brushless motor operates quietly
- Precise PWM speed control maximizes accuracy and efficiency
- Dual voltage: 115 VAC and 230 VAC
- · IP56 controller/motor—washdown rated
- 7.6-m (25-ft) cable connects motor and controller
- Field calibration function allows more accurate flow when installed in system
- · Reversible—purge before or after pumping
- Keypad lock feature prevents accidents or tampering
- Remote control capabilities via weather-resistant connection on controller (use remote cable 77300-32)
- Four-digit LED display shows four different parameters: flow rate, dispense volume, copy, and motor rpm
- 1.8-m (6-ft) line cord features IEC 320/CEE22 socket







P/S 5

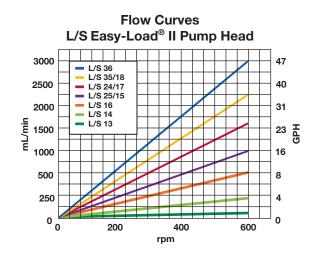


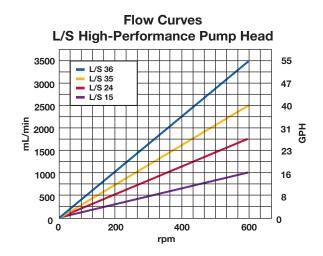
Motor rpm	Masterflex® P/S precision tubing sizes (thin wall)						Masterflex® P/S precision tubing sizes (thick wall)			
	P/S 13	P/S 14	P/S 16	P/S 25	P/S 17	P/S 18	P/S 15	P/S 24	P/S 35	P/S 36
10 to 600	0.6 to 36	2.1 to 130	8 to 480	17 to 1000	28 to 1700	38 to 2300	17 to 1000	28 to 1700	38 to 2300	48 to 2900
	(0 to 0.54)	(0.03 to 1.8)	(0.12 to 7.6)	(0.24 to 16)	(0.42 to 26.4)	(0.6 to 36)	(0.24 to 1.6)	(0.42 to 26.4)	(0.6 to 36.4)	(0.72 to 46)
1.6 to 100	0.1 to 6	0.4 to 21	1.4 to 80	3 to 170	5 to 280	6 to 380	3 to 160	4.5 to 280	6.5 to 380	9.5 to 560
	(0 to 0.06)	(0 to 0.33)	(0.01 to 1.3)	(0.04 to 2.5)	(0.06 to 4.3)	(0.06 to 6)	(0.04 to 2.4)	(0.06 to 4.3)	(0.10 to 6)	(0.15 to 8.8)

Note: Flow ranges were determined using water at room temperature with zero back pressure and zero suction lift.

Catalan mumban	Benchtop digital pump							Washdown digital pump		
Catalog number	975-2000	975-2100	975-2500	975-2600	975-2700	975-2800	975-3000	975-3100	975-3500	
Included pump head	Easy-Load II (thin wall)	Easy-Load II (thick wall)	High-Performance (thick wall)	Easy-Load II (thin wall)	Easy-Load II (thick wall)	High-Performance (thick wall)	Easy-Load II (thin wall)	Easy-Load II (thick wall)	High-Performance (thick wall)	
Number of heads accepted	2	2	1	4	4	1	2	2	1	
rpm	10 to 600	10 to 600	10 to 600	1.6 to 100	1.6 to 100	1.6 to 100	10 to 600	10 to 600	10 to 600	
External control—input	0 to 20 mA, 4 to 20 mA, 0 to 10V; START/STOP, DIR. (CW/CC), PRIME via contact closure									
External control—output	0 to 20 mA, 4 to 20 mA, 0 to 10 V, or TTL pulse									
Voltage (50/60 Hz)	115/230 VAC (auto selected)									
Motor type	Brushless continuous duty, TENV*, DC, permanent lubricated bearings									
Digital display (if applicable)	4-digit, 7-segment LED									
Motor/speed control type				PWM	(Pulse Width Mo	dulated)				
Speed regulation (repeatability)		±0.25%; ±1 rp	m	±0.1 rpm			±0.25%; ±1 rpm			
Operating temperature				0	to 40°C (32 to 1	04°F)			-	
Storage temperature	−25 to 65°C (−13 to 149°F)									
IP rating	IP23							IP56		
Agency approvals					UL, cUL, CE					
Dimensions (L x W x H)	29.2 x 20.3 x 18.4 cm (11½" x 8" x 7¼")							22.9 x 29.8 x 11.4 cm (9" x 11 <sup>3</sup> / <sub>4</sub> " x 4 <sup>1</sup> / <sub>2</sub> ")		
Shipping weight		lb kg)	22 II (10 k			17 lb 7.7 kg)	22 lb (10 kg)	18.5 lb (8.4 kg)	24 lb) (11 kg)	

<sup>\*</sup>Totally enclosed, non-ventilating.





Thermo scientific

<sup>\*</sup>Up to 3400 mL/min (54 GPH) with High-Performance pump head.