

Wide flow ranges; durable,  
powerful motors; and  
easy-to-read digital displays

## Thermo Scientific Masterflex® P/S

Modular Brushless  
Digital Pump Systems



Washdown Digital Pump  
975-3000

### Product Benefits

- Designed for accurate metering and low-maintenance operations.
- Features an IP56-rated wall-mount controller and full-featured remote control capabilities.
- 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 V AC and 230 V AC.
- 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 flow, remote control, and tachometer feedback.
- 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.



## Flow Ranges, mL/min (GPH)\*

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 (0 to 0.54)	2.1 to 130 (0.03 to 1.8)	8 to 480 (0.12 to 7.6)	17 to 1000 (0.24 to 16)	28 to 1700 (0.42 to 26.4)	38 to 2300 (0.6 to 36)	17 to 1000 (0.24 to 1.6)	28 to 1700 (0.42 to 26.4)	38 to 2300 (0.6 to 36.4)	48 to 2900 (0.72 to 46)
1.6 to 100	0.1 to 6 (0 to 0.06)	0.4 to 21 (0 to 0.33)	1.4 to 80 (0.01 to 1.3)	3 to 170 (0.04 to 2.5)	5 to 280 (0.06 to 4.3)	6 to 380 (0.06 to 6)	3 to 160 (0.04 to 2.4)	4.5 to 280 (0.06 to 4.3)	6.5 to 380 (0.10 to 6)	9.5 to 560 (0.15 to 8.8)

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

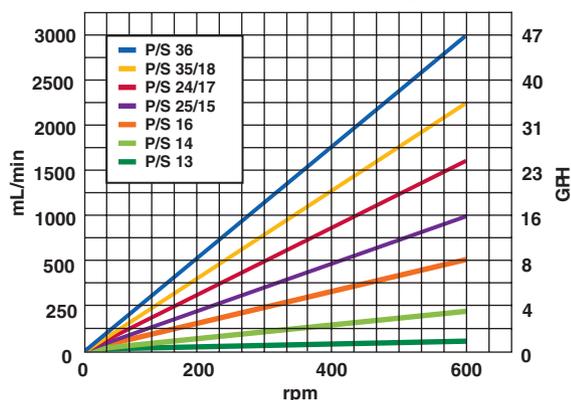
\*Up to 3400 mL/min (54 GPH) with High-Performance pump head.

## Specifications & Ordering Information

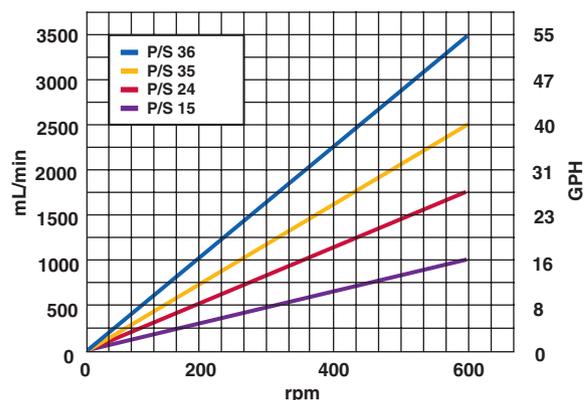
Catalog Number	Washdown digital pump		
	975-3000	975-3100	975-3500
Includes pump head	EASY-LOAD II (thin wall)	EASY-LOAD II (thick wall)	High-Performance (thick wall)
Number of heads accepted	2	2	1
rpm	10 to 600	10 to 600	10 to 600
External control—input	0 to 20 mA, 4 to 20 mA, 0 to 10 V; START/STOP, 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 V AC (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 Modulated)		
Speed regulation (repeatability)	±0.25%; ±1 rpm		
Operating temperature	0 to 40°C (32 to 104°F)		
Storage temperature	-25 to 65°C (-13 to 149°F)		
IP rating	IP56		
Agency approvals	UL, cUL, CE		
Dimensions (L × W × H)	22.9 × 29.8 × 11.4 cm (9" × 11¾" × 4½")		
Shipping weight	22 lb (10 kg)	18.5 lb (8.4 kg)	24 lb (11 kg)

\*Totally enclosed, non-ventilating.

**Flow Curves**  
P/S EASY-LOAD® II Pump Head



**Flow Curves**  
P/S High-Performance Pump Head



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### Fluid Handling

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