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## **Thermo Scientific** Masterflex® P/S





Precision standard drive 965-1000, which includes High-Performance pump head

- Deliver flow rates from 0.06 to 3400 mL/min (up to 54 GPH) with Masterflex P/S pump
- Motor and controller in one convenient package
- · Molded handle for one-handed portability
- Precise reset of speed control with lockable 10-turn potentiometer and separate on/off

- Reversible motor
- · 4 to 20 mA remote speed control, START/STOP via open collector or contact closure
- · Speed not affected by minor variations in power line voltage (VAC) and frequency (Hz)

## Masterflex P/S **High-Pressure Pump Systems**

- · Same features as precision drives 965-1500 and 965-1505
- · Feed chemicals continuously at up to 100 psi
- Convenient package comes complete with motor, High Performance pump head, and 10 feet of PharmMed® highpressure pump tubing

· Norprene® high-pressure tubing also available for these pumps (see pump section to order)



High-Pressure pump system 970-1500

970-1500 970-1505 Catalog number Motor rpm 80 mL/min (1.25 GPH) 170 mL/min (2.4 GPH) Max flow rate Tubing size 16 06485-16 06485-15 Tubing

**P/S 7** 



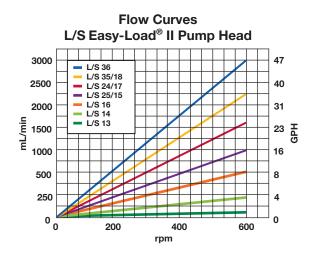
Motor rpm		Master	flex® P/S precisio	Masterflex® P/S high-performance precision tubing sizes (thick wall)						
	P/S 13	P/S 14	P/S 16	P/S 25	P/S 17	P/S 18	P/S 15	P/S 24	P/S 35	P/S 36
6 to 600	0.36 to 36	1.3 to 130	4.8 to 480	10 to 1000	17 to 1700	23 to 2300	10 to 1000	17 to 1700	23 to 2300	29 to 2900
	(0.005 to 0.54)	(0.01 to 1.8)	(0.06 to 7.6)	(0.12 to 16)	(0.26 to 26)	(0.36 to 36)	(0.12 to 16)	(0.26 to 26)	(0.36 to 36)	(0.46 to 46)
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	2.8 to 280	3.8 to 380	4.8 to 480
	(0.001 to 0.06)	(0.003 to 0.33)	(0.012 to 1.25)	(0.024 to 2.4)	(0.042 to 4.2)	(0.06 to 6)	(0.024 to 2.4)	(0.042 to 4.2)	(0.06 to 6)	(0.08 to 8)

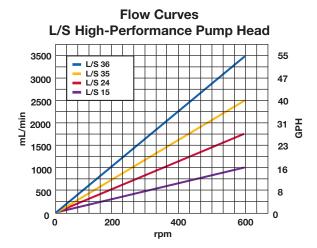
Note: Flow ranges were determined using water at room temperature with zero back pressure and zero suction lift.



Catalog number	955- 1000	955- 1005	956- 1000	956- 1005	965- 1000	965- 1005	955- 1500	955- 1505	956- 1500	956- 1505	965- 1500	965- 1505
Included pump head	ded 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)	
Number of heads accepted	ds accepted 2		2		1		4		4		1	
rpm	n 6 to 600		6 to 600		6 to 600		1 to 100		1 to 100		1 to 100	
External control—input	4 to 20 mA, 2 to 10 V, TTL, signal for remote stop								•	-		
External control—output	Not applicable								-			
Voltage/VAC (50/60 Hz) Frequency	90-130	190-260	90-130	190-260	90-130	190-260	90-130	190-260	90-130	190-260	90-130	190-260
Motor type	Continuous duty, TENV*, permanent magnet DC; permanent lubrication bearings											
Speed control type	10-turn potentiometer, SCR, 100:1 turndown											
Speed regulation (Repeatability)	1% (10-turn potentiometer settable to 1%)											
Operating temperature	0 to 40°C (32 to 104°F)											
Storage temperature						–45 to 65°C (	–49 to 149°F	)				
IP rating	IP23											
Agency approvals						UL, cUL, CE	(230 V units)					
Dimensions (L x W x H)				29.2 cm x 2	0.3 cm x 18.4	cm (8" x 71/4	") (11.5" x 8.	.0" x 7.25" wi	thout pump)			
Shipping weight	7.7 kg (17 lb)		7.7 kg (17 lb)		8.4 kg (	(18.5 lb)	7.1 kg (	15.75 lb)	lb) 7.1 kg (15.75 lb)		8.4 kg (18.5 lb)	

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







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