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Thermo Scientific Masterflex® P/S

Fixed Speed Pumps

Ideal for very low-flow applications delivering flow rates from 0.06 to 348 mL/min (0.001 to 5.5 GPH).



Fixed-Speed Pump 965-1200 includes a High-Performance pump head



Fixed-Speed Pump 955-1205 includes an EASY-LOAD® II pump head

Product Benefits

- Ideal for very low-flow applications.
- Deliver flow rates from 0.06 to 348 mL/min (0.001 to 5.5 GPH).
- Compact drives feature durable epoxy-coated steel housings.
- Operate 24 hours per day—drives feature continuous-duty brushless AC motors.
- On/off switch provides easy, safe control of motor.
- Thermally protected motor automatically shuts down in overheat conditions.



Flow Rates, mL/min (GPH)*

Motor rpm	Masterflex P/S precision tubing sizes					
	P/S 13	P/S 14	P/S 16	P/S 25	P/S 17	P/S 18
Easy-Load® II (thin wall)						
-	0.06 (0.001)	0.21 (0.003)	0.8 (0.013)	1.7 (0.027)	2.8 (0.044)	3.8 (0.060)
~	0.36 (0.006)	1.26 (0.020)	4.8 (0.076)	10.2 (0.16)	16.8 (0.27)	22.8 (0.36)
^^	1.8 (0.03)	6.3 (0.10)	24 (0.38)	51 (0.81)	84 (1.3)	114 (1.8)
^^	3.6 (0.06)	12.6 (0.20)	48 (0.76)	102 (1.6)	168 (2.7)	228 (3.6)
Motor rpm	Masterflex P/S High-Performance Precision Tubing Sizes					
	P/S 15	P/S 24	P/S 35	P/S 36		
Easy-Load® II (thick wall)						
-	1.7 (0.03)	2.8 (0.04)	3.8 (0.06)	4.8 (0.08)		
~	10.2 (0.16)	16.8 (0.27)	22.8 (0.36)	28.8 (0.46)		
^^	51 (0.81)	84 (1.3)	114 (1.8)	144 (2.3)		
^^	102 (1.6)	168 (2.7)	228 (3.6)	288 (4.6)		
High-Performance (thick wall)						
-	1.8 (0.03)	3 (0.05)	4.3 (0.07)	5.8 (0.09)		
~	10.8 (0.17)	18 (0.29)	25.8 (0.41)	34.8 (0.55)		
^^	54 (0.86)	90 (1.4)	129 (2.0)	174 (2.8)		

Note: Flow rates were calculated under the following conditions: zero psig at inlet, 0.5 psig at outlet; water temperature at 22°C (72°F).

*Flow rates listed in parentheses are obtainable only with High-Performance pump head.

Specifications & Ordering Information

Catalog number	VA-955-1100	VA-955-1105	VA-955-1200	VA-955-1205	VA-955-1300	VA-955-1305	VA-955-1400	VA-955-1405	VA-956-1100	VA-956-1105	VA-956-1200	VA-956-1205	VA-956-1300	VA-956-1305	VA-956-1400	VA-956-1405
Included pump head	Easy-Load II (thin wall)		Easy-Load II (thin wall)		Easy-Load II (thin wall)		Easy-Load II (thin wall)		Easy-Load II (thick wall)		Easy-Load II (thick wall)		Easy-Load II (thick wall)		Easy-Load II (thick wall)	
Number of heads accepted	2		2		2		1		2		2		2		1	
Motor rpm (fixed)	1		6		30		60		1		6		30		60	
Voltage (50/60 Hz)	115	230	115	230	115	230	115	230	115	230	115	230	115	230	115	230
Current	0.3 A	0.2 A	0.5 A	0.2 A	0.5 A	0.4 A	0.9 A	0.4 A	0.3 A	0.2 A	0.5 A	0.2 A	0.5 A	0.4 A	0.9 A	0.4 A
Fuse rating	0.8 A	0.4 A	0.8 A	0.4 A	0.8 A	0.4 A	0.8 A	0.4 A	0.8 A	0.4 A	0.8 A	0.4 A	0.8 A	0.4 A	0.8 A	0.4 A
Motor type	AC, shaded pole															
Speed regulation (Repeatability)	±10%															
Operating temperature	0 to 40°C (32 to 104°F)															
Storage temperature	25 to 65°C (-49 to 149°F)															
IP rating	IP22															
Agency approvals	UL, cUL, CE (230 V units)															
Dimensions (L x W x H)	13.4 cm x 11.8 cm x 15.2 cm (5/8" x 4/8" x 6")															
Shipping weight	4.0 kg (9.0 lb)															

Specifications & Ordering Information (continued)

Catalog number	VA-965-1100	VA-965-1105	VA-965-1200	VA-965-1205	VA-965-1300	VA-965-1305
Included pump head	High-Performance (thick wall)					
Number of heads accepted	1		6		30	
Motor rpm (fixed)	1		1		1	
Voltage (50/60 Hz)	115	230	115	230	115	230
Current	0.3 A	0.2 A	0.5 A	0.2 A	0.5 A	0.4 A
Fuse rating	0.8 A	0.4 A	0.8 A	0.4 A	0.8 A	0.4 A
Motor type	AC, shaded pole					
Speed regulation (Repeatability)	±10%					
Operating temperature	0 to 40°C (32 to 104°F)					
Storage temperature	25 to 65°C (-49 to 149°F)					
IP rating	IP22					
Agency approvals	UL, cUL, CE (230 V units)					
Dimensions (L x W x H)	13.4 cm x 11.8 cm x 15.2 cm (5/8" x 4/8" x 6")					
Shipping weight	4.5 kg (10.0 lb)					

