

MASTERFLEX® B/T® Variable-Speed Pump

Place detachable washdown controller wherever it's convenient

- Achieve the highest flow rates of any Masterflex pump—up to 37 LPM (9.8 GPM)
- Accept new B/T PerfectPosition™ pump tubing sizes B/T 87 and B/T 91
- Washdown pumps handle the toughest process and production applications, then clean up with ease
- Gentle peristaltic action is ideal for pumping shear-sensitive or viscous fluids (up to 10,000 cps)
- New improved rotor and occlusion bed design allow easier tube loading and prevent “tubing roll” during operation
- Detachable controller with 3-m (10-ft) cord mounts on pump or wall
- IP56-rated motor protects against dust and strong jets of water
- Reversible motor: purge before or after pumping, pump fluid in either direction

Masterflex B/T pumps are the best choice for high-flow bulk-transfer applications. Their durable construction ensures long service life with minimal maintenance. The sturdy materials of construction include stainless steel/carbon steel, a cast aluminum housing with an epoxy-powder coating, and Nylatron® rollers for rugged dependability.

All B/T pumps include a **new** and **improved** Rapid-Load® pump head for fast and easy tubing changes. The redesigned occlusion mechanism slides the tubing bed out of the way for easy tube loading and improved occlusion of the tubing when the pump head closes. The improved tubing retention mechanism holds the tubing firmly in place to allow for a simple loading process. New tubing sizes provide better performance in higher-pressure applications and provide longer tubing life.

What's included: a new Rapid-Load pump head, 1 m (3 ft) of Tygon® LFL B/T 91 tubing 06430-91, and a 6-ft line cord—115 VAC: U.S. standard plug; 230 VAC: European plug.

Simple Controls for Heavy-Duty Performance!



Close-up of the detachable wall-mount controller for variable-speed pumps 77110-60 and -67.

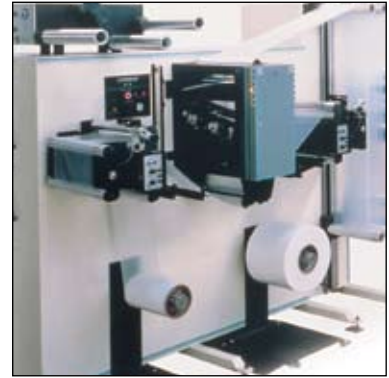
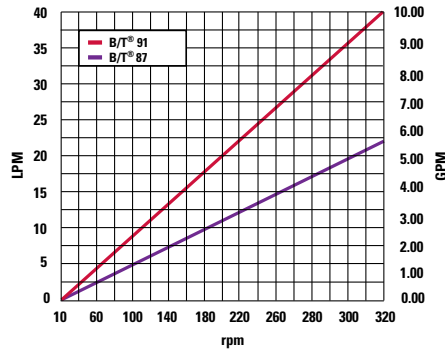


Variable-speed pump 940-1610 includes a new and improved Rapid-Load® pump head.

Flow Rates, LPM (GPM)

rpm	PerfectPosition™ pump tubing	
	B/T 87	B/T 91
12 to 321	0.67 to 17.7 (0.17 to 4.7)	1.4 to 37 (0.4 to 9.8)

**Flow Curves
B/T® Rapid-Load® Pump Head**



Specifications & Ordering Information

Catalog number	940-1610	940-1615
Performance Specifications		
Flow capacity (rpm)	37 LPM (9.8 GPM) 10 to 321	37 LPM (9.8 GPM)* 10 to 321 @ 60Hz, 10 to 266 @ 50Hz
Number of channels	One	One
Reversible	Yes	Yes
External control – input	—	—
Electrical Specifications		
Voltage VAC (50/60 Hz)	115 VAC, 60 Hz, 1 phase	230 VAC, 60/50 Hz, 1 phase
Current	6.5 amps	3.3 amps
Motor type	NEMA 56C face, TENV, PMDC	NEMA 56C face, TENV, PMDC
Motor size	½ hp (0.37 kW)	½ hp (0.37 kW)
Display	—	—
Control	Variable speed SCR, single-turn potentiometer, wall-mount or pump mount	
Motor speed	Max. 1800 rpm	Max. 1800 rpm
Speed regulation of set point (repeatability)	±5% (±5 rpm)	±5% (±5 rpm)
Soft-start/electronic brake	—	—
Physical Specifications		
Housing materials	Polyester powder coated aluminum, nickel-plated steel, 300 stainless steel, and polycarbonate	
Pump head materials	Nylatron™ rollers, Delrin™, polyester powder coated cast iron	
IP rating	IP56 (NEMA 4)	IP56 (NEMA 4)
Agency listings	UL, cUL, CE (230 volt only)	UL, cUL, CE (230 volt only)
Operating temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage temperature	-45 to 65°C (-13 to 149°F)	-45 to 65°C (-13 to 149°F)
Dimensions (L x W x H)	51 x 40 x 66 cm (20" x 15½" x 26")	51 x 40 x 66 cm (20" x 15½" x 26")
Shipping weight	43 kg (95 lb)	43 kg (95 lb)

* Flow at 60Hz, at 50Hz flow will be 5/6 of flow rate shown



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