

Thermo Scientific Masterflex B/T

Air Powered, Fixed Speed and Pump Head Adapter Systems



B/T Fixed-Speed Pump

Economical and Easy to Operate

- Simple one-hand opening/closing
- Reinforced base and motor mount with return bend for easy installation
- Fixed-speed units are ideal for economical transfer and fixed flow applications
- Reversible motor: purge before or after pumping, pump fluid in either direction
- IP55-rated motor—wash off dirt or debris without harming pump

B/T Rapid-Load Pump Heads

Convert your existing motor into a high-capacity Masterflex B/T pump

- Simple one-hand opening/closing
- Reinforced base and motor mount with return bend for easy installation
- Compatible with standard 56C frame or IEC 72/ISO 71 motors with B5 motor flange
- Pump heads require a minimum 1/2 hp motor with a maximum of 1800 rpm
- Supply your own motor and controller

B/T Air-Powered Pump System

Use in locations where electricity is unsafe or impractical

- Simple one-hand opening/closing
- Reinforced base and motor mount with return bend for easy installation
- Includes pressure regulator, oiler and filter—control your compressor air to match pump requirements
- IP56-rated motor protects against dust and strong jets of water



Specifications & Ordering Information

Catalog number	945-1625	945-1815	945-3399	945-4399	945-1620
PERFORMANCE					
Flow Capacity	40 (LPM) 10.6 (GPM) Typical		0.33 to 37 (LPM) 0.09 to 9.7 (GPM) Typical		40 (LPM) 10.6 (GPM) Typical
RPM	10 to 321		Max 321	Max 321	Max 321
Number of Channels	One				
Reversible	Yes				No
External Control - Input	Not Applicable				
External Control - Output	Not Applicable				
ELECTRICAL					
Voltage VAC (50/60 Hz)	115v, 60Hz 1Ph	230v, 50/60Hz 1Ph	Depends on Motor Size		Rotary Air Motor
Current (mA)	8 amps	4 amps	Depends on Motor Size		12 CFM
Motor Type	NEMA 56C Face, TENV, IP 55 Washdown		NEMA 56C Face	IEC 72/ISO 71 8% Flange	40 PSIG
Motor Size	1/2 HP (0.37 kW)		Min 1/2 HP Max 1-1/2 HP Min 375 W, Max 1.1 kW		1/2 HP (0.37 kW)
Motor Speed	Max 1800 RPM				
Speed Regulation of Setpoint (repeatability)	Not Applicable				
Self-Start/Electronic Brake	Not Applicable				
Display	Not Applicable				
PHYSICAL SPECIFICATIONS					
Housing materials	Polyester powder coated aluminum, Nickel-plated steel, 300 Stainless steel, and Poly-carbonate				
Pump Head Materials	Nylatron rollers™, Delrin™, Polyester powder coated cast iron				
Operating temperature	0 to 40°C (32 to 104°F)				
Storage temperature	-45 to 65°C (-13 to 149°F)		0 to 40°C (32 to 104°F)		
IP rating	IP 55		Not Applicable, Pump can be washed down		
Agency approvals	UL, cUL, CE		ATEX, Zone 2		
Controller dimensions (L x W x H)	51 x 40 x 66 cm (20 x 15.5 x 26 in)				
Shipping weight	41 kg (89 lb)	43 kg (95 lb)	17kg (37lb)		23 kg (50lb)

