

Choose Masterflex® B/T pumps when your application requires high flow rates up to 37 LPM (9.8 GPM).

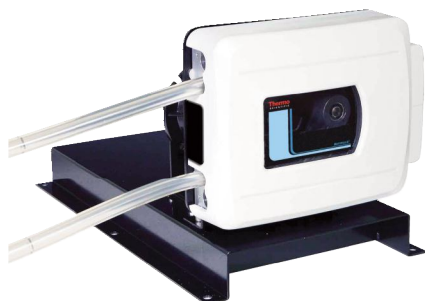
## Thermo Scientific Masterflex® B/T Air Powered, Fixed Speed and Pump Head Adapter Systems



**B/T Air-Powered Pump System**  
945-1620



**B/T Fixed-Speed Pump System**  
945-1625



**B/T Rapid-Load Pump Head**  
945-3399

### 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.

### 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

Economical and Easy to Operate.

- 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.



## Specifications & Ordering Information

| Catalog Number                               | 945-1625   | 945-1815            | 945-3399                                   | 945-4399                | 945-1620                    |
|--|--|---------------------|--|-------------------------|-----------------------------|
| <b>PERFORMANCE</b>                           | <b>FIXED SPEED</b>   |                     | <b>PUMP ADAPTER SYSTEM</b>                 |                         | <b>AIR-POWERED</b>          |
| 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  | Max 321  | Max 271             | Max 321                                    | Max 321                 | Max 321                     |
| Number of Channels                           | One  |                     |  |                         |                             |
| Reversible                                   | Yes  |                     |  |                         | No                          |
| External Control - Input                     | Not Applicable   |                     |  |                         |                             |
| External Control - Output                    | Not Applicable   |                     |  |                         |                             |
| <b>ELECTRICAL</b>                            |  |                     |  |                         |                             |
| Voltage VAC (50/60 Hz)                       | 115 V, 60 Hz 1Ph   | 230 V, 50/60 Hz 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   |                     |  |                         |                             |
| <b>PHYSICAL SPECIFICATIONS</b>               |  |                     |  |                         |                             |
| 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                          | -10 to 60°C (14 to 140°F)  |                     | -10 to 65°C (14 to 149°F)                  |                         |                             |
| IP rating                                    | IP65   |                     | IP65                                       |                         | IP56                        |
| 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                              | 39 kg (88 lbs)   |                     | 28.5kg (63lbs)                             |                         | 23 kg (50lbs)               |

