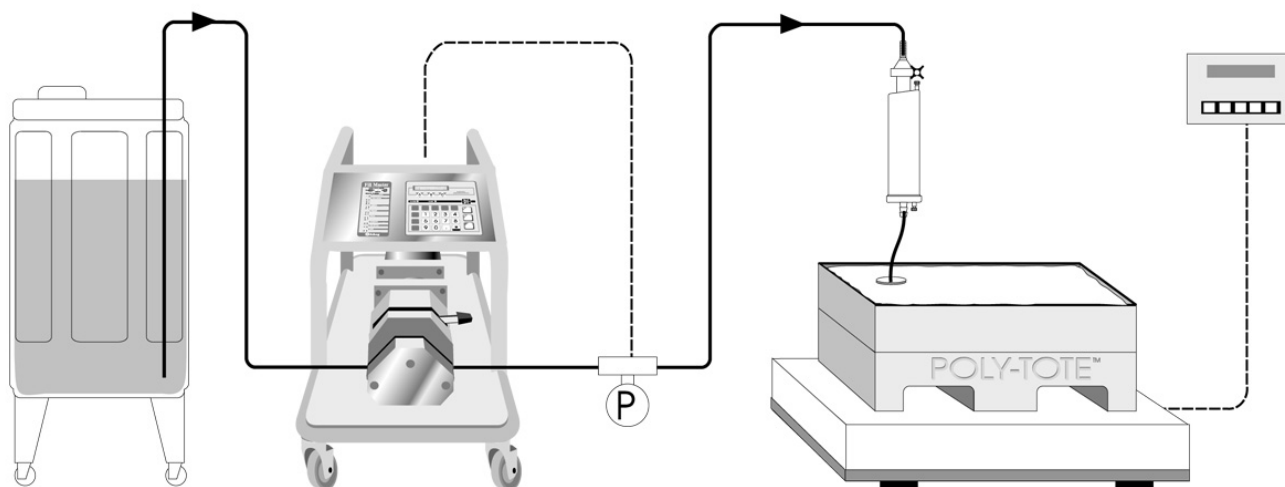


Rapid, Aseptic Transfer of Liquids into Collapsible Bags

SUMMARY:

The **SciLog Fill Master** rapidly dispenses and filter-sterilizes solutions into sterile storage bags. The Fill Master utilizes a peristaltic pump head for maintaining aseptic pumping conditions; only the internal tube walls are in contact with the solution. The Fill Master dispenses solutions either by weight or volume. Transferring solutions by weight requires hook up to an electronic, top-loading scale. Dispensing by weight provides documentation and inventory control as well as ease of operation since no pump calibration is necessary. An optional pressure transmitter monitors filter backpressure.



Large Volume Liquid Storage Systems, such as those manufactured (Poly-Tote™)* by TC Tech, are collapsible, sterile plastic bags designed to store 50 to 1000 liters of liquid. For storage and transport, the heavy-duty bags are placed into wheeled, plastic containers. The large-volume bags collapse to a fraction of their filled size when not in use, thus simplifying storage of bags between uses.

FEATURES:

The Fill Master has a number of different pump head options, with pumping capacities ranging from 0.1 gal/m to 12 gal/m. The optically encoded, servo-controlled pump motor provides a typical weight – dispensing precision of better than 0.5%:

- Large Peristaltic Pump: 0.1 – 12 gal/m (0.4 – 45 l/m), 25 psi max
- Medium Peristaltic Pump: 0.03 – 3.5 gal/m (0.1 – 15 l/m), 35 psi max.
- Magnetic Gear Pump: 1 – 10 gal/m (3.8 – 38 l/m), 80 psi max.
- Rotary Lobe Pump: 0.5 – 11.6 gal/m (1.9 – 44 l/m), 200psi max.

The Fill Master allows printout or computer archiving of dispensing data, including to a custom spreadsheet with the SciDoc Documentation Package. A parameter lockout feature provides restricted pump access. The Fill Master is mobile and wash-down resistant, ideally suited for batch process applications. The Fill Master can interface with industrial scales from Ohaus, Mettler-Toledo, and Sartorius. Contact SciLog for details at 800-955-1993 or e-mail at scilog@scilog.com

ADDITIONAL FEATURES:

Quick "Out of Box" automation capability provides rapid investment returns. You can use the Fill Master as a stand-alone dispenser or dilutor. The Fill Master replaces older, less efficient liquid handling systems.

The Fill Master allows ready interfacing with industrial scales, pressure sensors, level detectors or switching valves. A self-diagnostic mode allows you to automatically check out the Fill Master electronics.

All Fill Master pump parameters including pump rate, cumulative volume weight, and integrated pressure sensor alarms can be printed out or sent to a computer for data archiving. Identifying Date/Time stamps are printed out with the dispensing data.

User-definable alarms offer peace of mind when handling your valuable process liquids. Utilizing sensor inputs and programmable alarm parameters, the Fill Master will automatically stop and alert you when unsafe conditions are detected.

ORDERING INFORMATION:

SciLog Customer Service: 1-800-955-1993

SciLog P/N: DESCRIPTION:

- 800-100Fill** **Fill Master-100** with 1082 TANDEM Peristaltic Pump Head, utilizes Masterflex Tubing Sizes: # 15, # 24 or # 35. Motor: 0.5 HP, 1750 RPM, 30 psi max, Optically Encoded 3.1:1 Speed Reduction at Pump Head, 565 RPM
- 800-104Fill** **Fill Master-104** with a Watson-Marlow 620R peristaltic pump head, 0.5 HP motor; 90VDC; 250 RPM max.; 7.8 : 1 Speed Reducer. The Watson-Marlow 620R peristaltic pump head has two (2) pump rollers and accommodates continuous pump tubing of the following sizes: 6.4mm ID (#26), 0.15 to 2.60 L/M; 9.6mm ID (#73) 0.31 to 5.94 L/M; 12.7mm ID (#82), 0.53 to 9.25 L/M; and 15.9mm ID (#184), 0.80 to 14.5 L/M, wall thickness is 3.2mm (0.125") for all tube sizes.
- 800-102Fill** **Fill Master-102** with B/T (Cole-Parmer) Peristaltic Pump Head, uses Masterflex Tubing Sizes: B/T 86, B/T 88, B/T 90 and B/T 92. Pump Rate: 0.1 gal/m to 12 gal/m., 20 psi max., Motor: 0.5 HP, 1750 RPM, Optically Encoded, 5:1 Speed Reduction at Pump Head, 350 RPM.
- 800-200Fill** **Fill Master-200** with Jabsco 55 Series Model 55210 Rotary Lobe Head, CIP/SIP capability, ½" Sanitary connections, Rotor: Scimitar, High Efficiency; EPDM Pump Head Elastomers; Seals: Single Mechanical SiC/SiC, 180 Grit EP, 1.0 HP motor; 4.2 gal/min max output. Pressure: 200psi max. Other Pump Heads available, contact SciLog
- 800-300Fill** **Fill Master-300** with Magnetic Gear Pump Head (Micropump 5K), 316 Stainless Steel Housing, Gears made from Peek. ½" FNPT Connection. Pump Rate: 0.1 gal./m. to 5.0 gal./m., 80 psi max. pulse-free pump action. Motor: 0.5 HP, 1750 RPM, Optically Encoded.

* Poly – Tote™ is a Trademark of TC Tech

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