

# SMARTFLOW® MOLD VALIDATION CART

The **Smartflow Mold Validation Cart** is a portable cooling water line test unit that facilitates cooling water bench test of plastic injection molds.

The cart includes a pump and reservoir to supply cooling water to an on-board 4-port manifold system. It records the test data onto a USB or integrated laptop for validation or analysis.

**Mold Maintenance Shops** - Document flow rate before and after mold maintenance.

**Mold Builders** - Confirm target flow rate of mold cooling lines before shipping to a customer or molding department.

**Injection Molding Processors** - Troubleshoot restricted, clogged, or leaking water lines outside of the molding machine to free injection molding machine time.

## Included Equipment:

- **Powder-Coated Cart** with locking casters for mobile convenience
- **18 Gallon Water Tank and 1/2 HP Pump** for convenient, on-board cooling water supply (14 gallons max. fill)
- **1" NPT Supply Water Manifold**, blue anodized aluminum with (4) 1/2" NPT ports directing water flow and 100 psi reference pressure gauge
- **1" NPT Return Water Manifold**, red anodized aluminum with Tracer® VM Flow Meters, 100 psi pressure gauges, and Delta-Q® Flow Regulators on each line to confirm and control the flow rate of individual circuits
- **1" NPT Molded Body SWAP® Valve** for evacuation of all circuits quickly and cleanly between mold tests
- **Smartlink® Tracer® VM Interface** collects digital flow information from the flow meters, sends data to the notebook computer, creates a .csv data file needed for electronic record keeping of test results
- **Optional Notebook Computer and Ethernet Switch** - facilitates connection to wireless network and collection of data from TracerVM Flow Meters.

Mold Validation cart ships via motor freight.

Contact your Smartflow distributor to ask about possible custom cart configurations.



SVC-8-4-3-40H-EP

The Smartflow Mold Validation Cart is an efficiency tool, most useful for large injection molding facilities with decentralized mold test needs.

The cart can be moved to individual work stations for on-demand use, bypassing the need to wait for a maintenance bench to become available.

Ball valves and quick disconnect fittings are included on each manifold port for water circuit isolation.

The SWAP Valve serves as the main shutoff valve for the unit. By connecting a compressed air line to the SWAP Valve, all cooling lines can be cleared quickly between mold tests.

All components are fully serviceable.



## Features

Cart with Locking Casters..... powder-coated steel (32" L x 18" W x 35" H)  
 Centrifugal Pump..... 1/2 hp, 82ft max head, 1" intake  
 Plastic Water Tank..... 18 gallons (14 gallons max. fill)  
 Molded Body SWAP Valve ..... 1" NPT  
 Aluminum Supply Manifold..... 1" NPT  
 1/2" NPT ports  
 with large port brass ball valves  
 and quick-disconnect fittings  
 100 psi pressure gauge

Aluminum Return Manifold ..... 1" NPT  
 TracerVM Base Flow Meters (4)  
 2-40 LPM (.5 to 10.6 GPM)  
 Brass End Caps  
 100 psi pressure gauge  
 Delta-Q Flow Regulators  
 and quick-disconnect fittings  
 Smartlink Tracer<sub>VM</sub> Interface ..... VMBTI-102  
 Optional Notebook Computer & Ethernet Switch with IP  
 Address Generation (excluded from factory warranty)

Shipping Weight (crated)..... Approx. 220 lbs (100kg)

Model Number	Quick-Disconnect Size		Includes Notebook Computer and Ethernet Switch
SVC-8-4-3-40H-EP	3/8"ID	300 Series	yes
SVC-8-4-4-40H-EP	1/2"ID	500 Series	yes
SVC-8-4-3-40H-P	3/8"ID	300 Series	no
SVC-8-4-4-40H-P	1/2"ID	500 Series	no

## Dimensions

