

A ThermOmegaTech® product

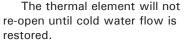


The Most Advanced, Reliable and Compact Self Contained Valves Available for Temperature Control, Freeze Protection, Steam Tracing and Conservation of Energy

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Safety First

The STVM® Washdown Station has been designed to put the safety of your operators first, thanks to its innovative technology. The system utilizes a thermal element located in the downstream leg of the mixing valve. The thermal element is designed to throttle steam flow should the temperature set point be exceeded and will completely shut down at 15°F above set point or if cold water flow is interrupted.

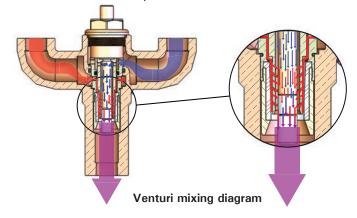




How it Works

ThermOmegaTech®'s STVM® Washdown Station incorporates unique Venturi mixing technology to deliver water at the required temperature quickly, quietly and on demand. Cold water enters the upper chamber of the mixing valve, while incoming steam enters the lower chamber. Mixing occurs as the two vortices collide, thoroughly mixing and heating the water through a Venturi diffuser with minimal noise and vibration.

An additional benefit of this design is what you don't hear: the banging, popping and crackling noises associated with cavitation that are prevalent in ordinary mixing stations. This smooth quiet operation increases safety and reduces stress on the operator.



Built to Last

Conventional washdown stations, utilizing old spool and diaphragm technology that rely on multiple moving parts are prone to premature failure due to mineral deposits and scaling. The necessary regular maintenance of these units to keep them running safely is very time consuming and costly.

The rugged STVM® Washdown Station is unique in that it has only one moving part, a thermal actuator within the mixing valve cartridge.

The patented mixing design ensures long uninterrupted use even if there is high mineral content in the water. As the opposing vortices of steam and water enter the mixing valve, a scouring action occurs that minimizes the buildup of minerals and scale.



Washdown Highlights

- Safe operation: auto shut-off of steam if cold water flow is interrupted
- Mixing valve cartridge designed for ease of maintenance
- In-line field serviceable mixing valve: cartridge element can be easily replaced in minutes making the washdown station work like new again
- Provided with heavy duty globe valves and interlocked ball valves, allowing for cold water only operation, but not steam only.
- Check valves, stainless steel thermometer, globe valves and stainless steel hose rack standard with all units
- Designed to fit in place of most other industrial hose stations



Interlocking handles for safer operation

Features

Wide steam and water operating pressure ranges

Unique mixing design with only one moving part

Thermal actuator controls steam supply

Valve cartridge is very easy to remove

6.5" center line to center line pipe dimension

Benefits

Continues to operate when conventional units stop working. Easy to size - one size fits all pressure ranges.

Mixes steam and hot water efficiently and quietly. Resistant to the effects of mineral buildup and scaling.

Throttles steam supply when temperature set-point is exceeded. Shuts down steam supply if water supply fails.

Quick and easy to clean requiring no special tools. Interchangeable cartridges converts easily between 185°F and 150°F set-points.

Readily adapts to existing pipe configurations. Eliminates cost of removing and reinstalling mounts.

Specifications

Technical Data

Maximum Steam Pressure 150 PSIG

Maximum Water Pressure 150 PSIG

Water Output Temperature (min) Ambient

Water Output Temperature (max) 150°F (TOT 150)

185°F (TOT 185)

Approx. weight (w/o hose & nozzle) 19 lbs. (8.6 Kg)

Hose Assemblies

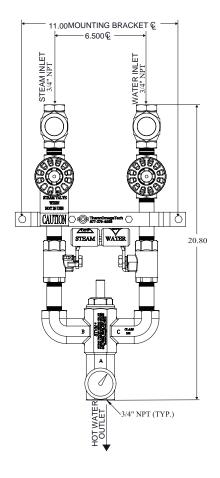
Color	Black	White Creamery
Tube	EPDM	EPDM
Reinforcement	Wire, 1 braid	High tensile cord
Cover	EPDM/pin pricked	EPDM
Fitting material	Zinc Plated Brass	Stainless Steel
Working pressure	200 PSIG (13.8 BAR)	225 PSIG (15 BAR)
Max. steam pressure	200 PSIG (13.8 BAR)	90 PSIG (6 BAR)
Temperature limit	388°F (197.8°C)	330°F (165.5°C)
Nominal I.D.	3/4"	3/4"
Standard lengths	25ft., 50ft., & 75ft.	25ft., 50ft., & 75ft.

Sizes and pipe connections

Mixing Station 3/4" NPT inlets and outlet

Hose ½" MNPT swivel x ¾" MNPT swivel

Nozzle ½" NPT (female)



Parts Information

Materials Supplied with Standard System

Mixing valve cartridge Stainless Steel or Brass
Mixing valve body Stainless Steel or Bronze
Globe valves Stainless Steel or Bronze
Check valves Stainless Steel or Bronze
Temperature gauge Stainless Steel/Plexi-glass

Mounting bracket Stainless Steel

Pipe fittings Stainless Steel or Brass/Bronze

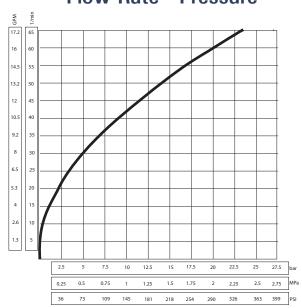
Hose rack Stainless Steel

Washdown Gun



- Rated at 350 PSIG
- Max working temperature of 195°F (90.6°C)
- Adjustable cone angle from 0° to 60°
- Weighs 2.1 lbs
- ½" FPT inlet
- Positive shut-off

Flow Rate - Pressure



Common Parts Ordering Information*

Standard Assemblies

Description	Part Number	
3/4" TOT (150°F) Stainless Steel Washdown Station	377-111100-150	
¾" TOT (185°F) Stainless Steel Washdown Station	377-111100-185	
¾" TOT (150°F) Brass/Bronze Washdown Station	377-111000-150	
¾" TOT (185°F) Brass/Bronze Washdown Station	377-111000-185	
Accessories		
25ft Black Steam Rated Hose Assembly	940-000000-025	
50ft Black Steam Rated Hose Assembly	940-000000-050	
75ft Black Steam Rated Hose Assembly	940-000000-075	
25ft White Steam Rated Creamery Hose Assembly	940-110030-025	
50ft White Steam Rated Creamery Hose Assembly	940-110030-050	
75ft White Steam Rated Creamery Hose Assembly	940-110030-075	
Washdown Gun	941-410110-000	
Spare Parts		
Valve cartridge assembly (150°F) Brass/Bronze	374-010000-150	
Valve cartridge assembly (185°F) Brass/Bronze	374-010000-185	
Valve cartridge assembly (150°F) Stainless Steel	374-012000-150	
Valve cartridge assembly (185°F) Stainless Steel	374-012000-185	
*For additional hose assemblies, nozzles and spare parts, consult factory.		

ThermOmegaTech®, Inc. is an industry expert and leading manufacturer of self-actuated thermostatic technology including Thermostatic Valves, Actuators and Controls serving domestic and international markets for over 35 years.



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