

 **Therm-Omega-Tech, Inc.**

## *Hosedown Station*



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

**[www.ThermOmegaTech.com](http://www.ThermOmegaTech.com)**



# Safety First

The TOT-Hosedown 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.

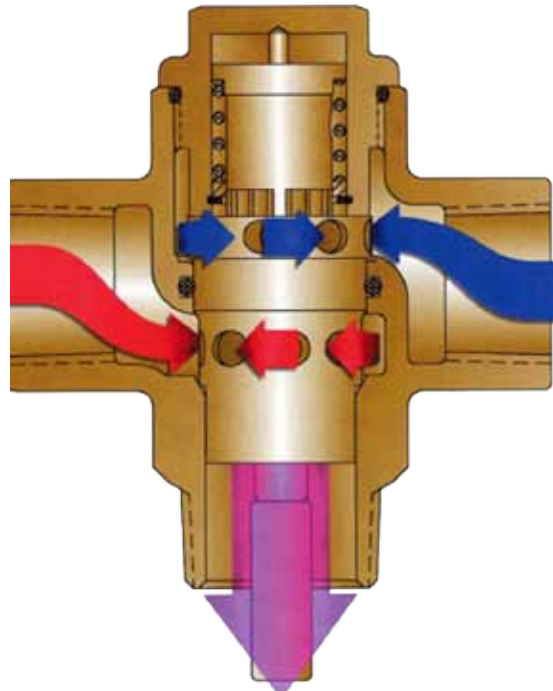
The thermal element will not re-open until cold water flow is restored.



# How it Works

Therm-Omega-Tech's Hosedown Station incorporates unique **TOT Cartridge** technology to deliver water at the required temperature quickly, quietly and on demand. Cold water enters the mixing valve and forms an inner vortex that moves from the inside out, while incoming steam forms an opposing outer vortex that moves from the outside in. Mixing occurs as the two vortices collide, thoroughly mixing and heating the water to the desired temperature.

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.





# Range Availability

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The TOT Hosedown Station is available in two temperature range models, the TOT 150°F and TOT 185°F. The two models are interchangeable by exchanging drop-in cartridges. This feature enables the operator to easily increase or decrease the maximum setpoint temperature.

The graphs on the next page indicate the maximum flow of hot water at various temperatures for a given steam supply pressure. When selecting a temperature set point, ascertain the hot water temperature and quantity required, and the water and steam pressure available.

Select the desired temperature rise chart. From the bottom row, select the desired flow in GPM. From there, move vertically up the chart to the intersection of both the water and steam lines. From each intersection, follow the chart to the left-hand column to determine the amount of water and steam pressure required to provide the desired temperature rise at the desired flow rate.

Example: User requires 50°F temperature rise and 10 GPM flow. Resultant pressures required are 60 PSIG steam and 52 PSIG water. (Reference dashed lines at above right).

## Features

Wide steam and water operating pressure ranges

Unique vortex design with only one moving part

Thermal actuator controls steam supply

Valve cartridge is very easy to remove

6" centerline to centerline pipe dimension to remove

## Benefits

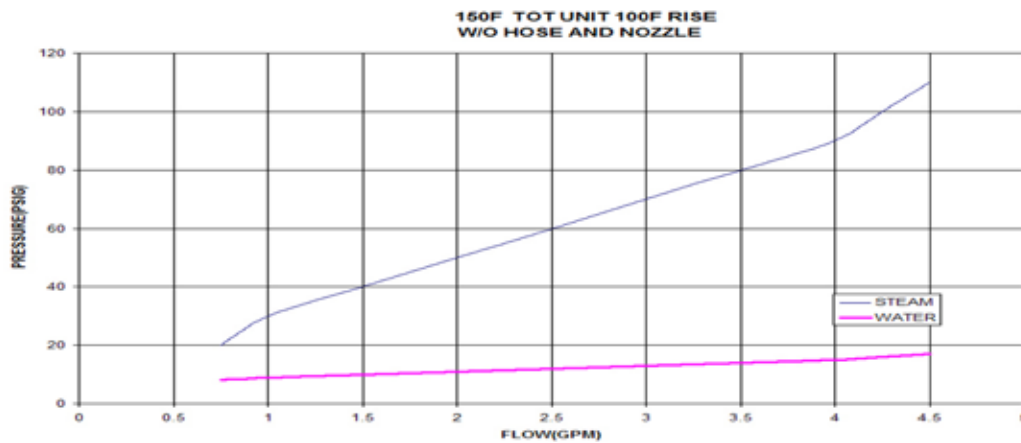
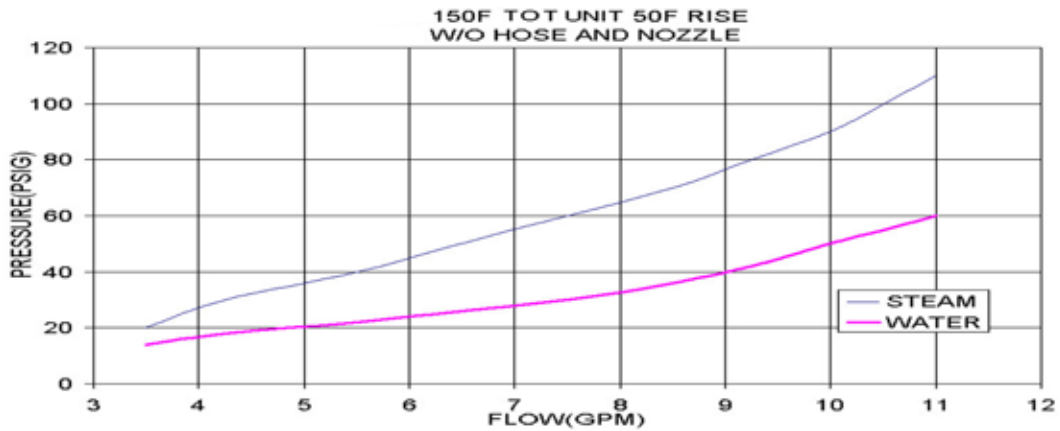
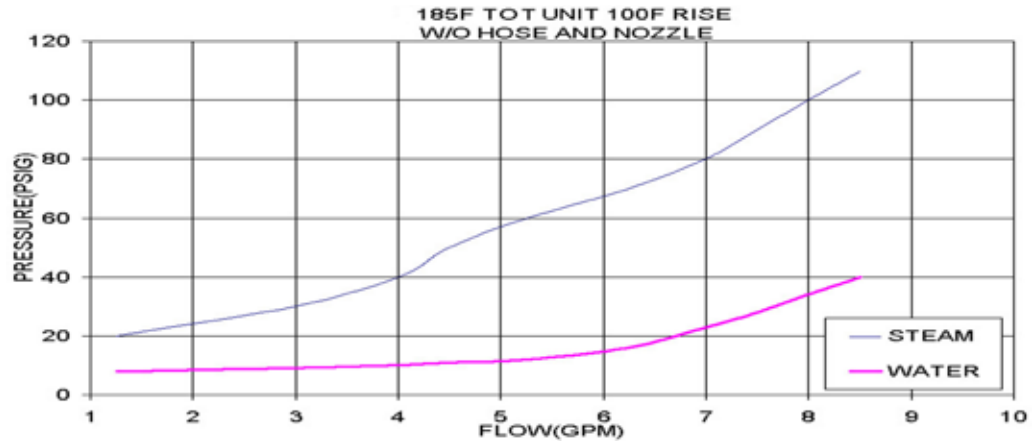
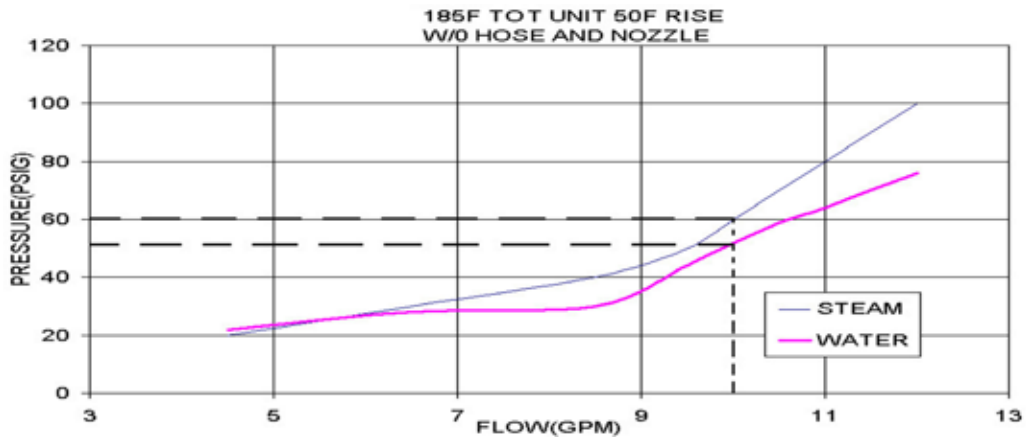
Continues to operate when conventional units stop working.  
Easy to size - one size fits all pressure ranges.

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

Throttles steam supply when temperature setpoint 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 setpoints.

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 (TOT150) 185°F (TOT 185)
Approx. weight (w/o hose & nozzle)	19 lbs. (8.6 Kg)

## Hose Assemblies

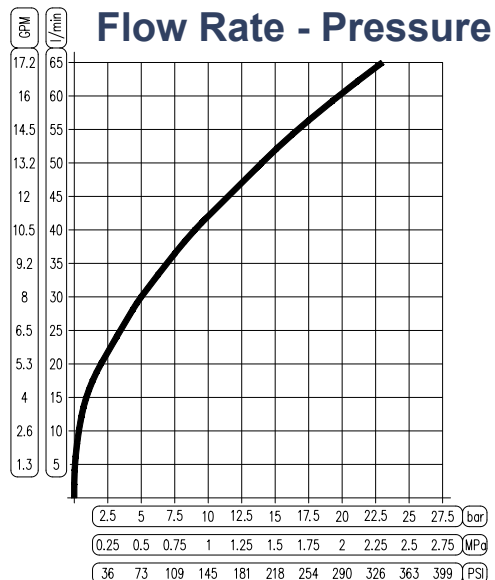
Color	Black
Tube	EPDM
Reinforcement	Wire, 1 braid
Cover	EPDM/pin pricked
Fitting Material	Zinc Plated Steel
Working pressure	200 PSIG
Temperature limit	388°F
Nominal I.D.	3/4"
Standard lengths	25 ft., 50 ft., & 75 ft.

## Sizes and pipe connections

Mixing Station	3/4" NPT inlets and outlet
Hose	3/4" NPT (male) swivel x 1/2" NPT (male) swivel
Nozzle	1/2" NPT (female)

## Washdown Gun Characteristics

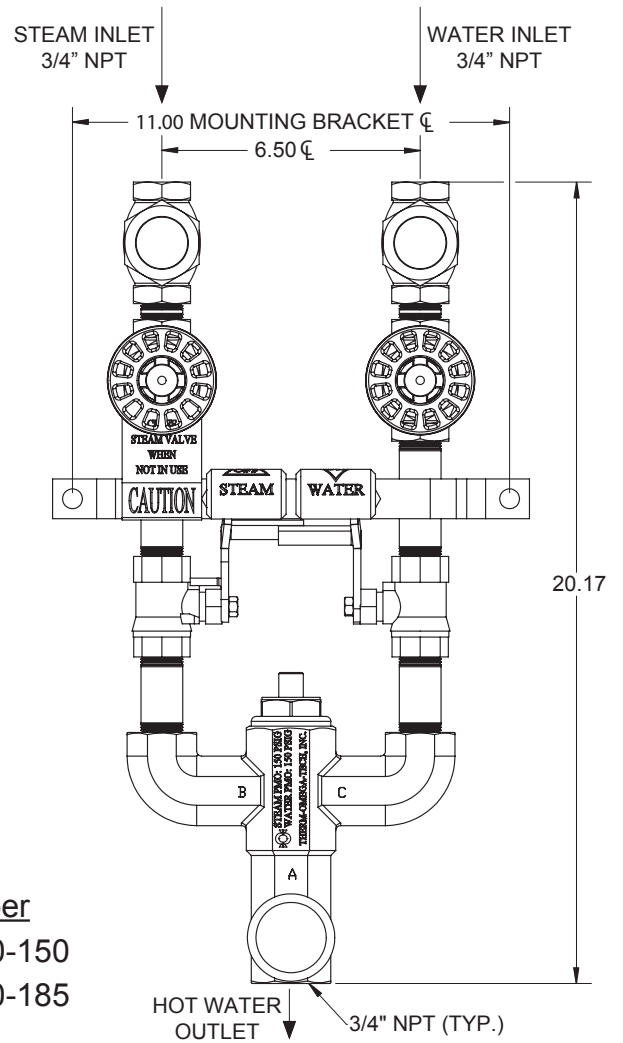
- ◆ Rated at 350 PSI.
- ◆ Max working temperature of 195°F.
- ◆ Adjustable cone angle from 0° to 60°.
- ◆ Weighs 2.1 lbs.
- ◆ 1/2" FPT inlet
- ◆ Positive shut-off



# Parts Information

## Materials Supplied with Standard System

Mixing valve cartridge	Brass
Mixing valve body	Bronze
Globe valves	Bronze/B62
Check valves	Bronze/B62
Temperature gauge	Stainless Steel/Plexi-glass
Mounting bracket	Stainless Steel
Pipe fittings	Brass/Bronze
Hose rack	Stainless Steel



## Common Parts Ordering Information\*

### Standard Assemblies

Description	Part Number
3/4" TOT (150°F) Hosedown Station	377-111000-150
3/4" TOT (185°F) Hosedown Station	377-111000-185

### Accessories

Description	Part Number
ISOGRIP globe valve handle cover	941 - 010300-000
25ft Black hose assembly	940 - 000000-025
Washdown Gun	941 - 410110-000

### Spare Parts

Description	Part Number
Valve cartridge assembly (150°F)	374-010000-150
Valve cartridge assembly (185°F)	374-010000-185

\*For additional hose assemblies, nozzles and spare parts, consult factory.

Therm-Omega-Tech, Inc. is an Industry Expert and Leading Manufacturer of Custom Thermostatic Valves, Actuators and Controls serving domestic and international markets for over 25 years.



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