

## BENEFITS

- Reduced noise
- Reduction of maintenance and labor time
- Easy Installation
- Designed to minimize scaling
- Over-temperature safety shutoff to protect personnel/equipment

## OPERATION

Therm-Omega-Tech's STVM® valve uses unique mixing technology for silent operation. During operation, cold water enters the mixing valve and moves from the inside out, while incoming steam moves from the outside in. Mixing occurs as the two flows collide, thoroughly mixing and heating the water to the desired temperature with minimal noise and vibration.

What's especially remarkable about this mixing technology is what you don't hear - the banging, popping, and crackling noises that come from ordinary mixing valves. That means there's none of the noise or vibration that can add stress to the work environment, and none of the cavitation that can cause premature wear.

## SPECIFICATIONS

Because of the unique mixing characteristics inside the STVM® valve, it is capable of mixing steam and water without the usual noise and vibration associated with other types of mixers. As a safety feature, the thermal actuator in the valve outlet is designed to turn off the steam flow into the valve if the cold water flow into the valve is interrupted. The entire internal operating mechanism (cartridge) of the STVM® valve can be quickly and easily removed as a single assembly by simply unscrewing the valve cap. This allows easy cleaning and service without removing the valve from the line. The unique flow characteristics of the vortices inside the valve create a scouring action that minimize the effects of mineral deposits on valve operation, assuring increased service life even under adverse conditions.

For information describing our complete hosedown station, please request the STVM® Hosedown Station information sheet.

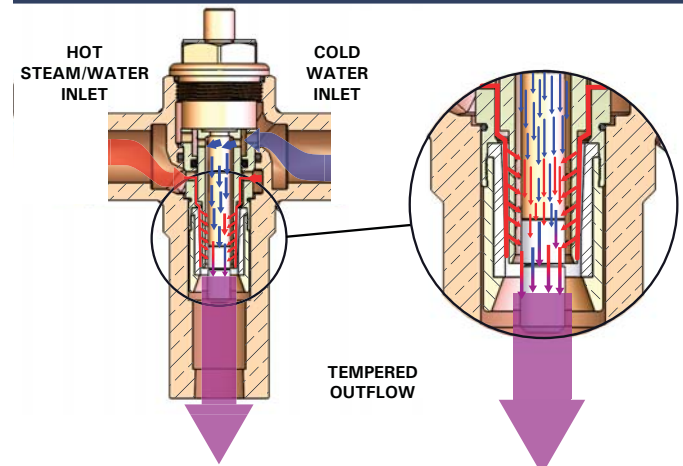


## TYPICAL APPLICATIONS

Hot water supply for:

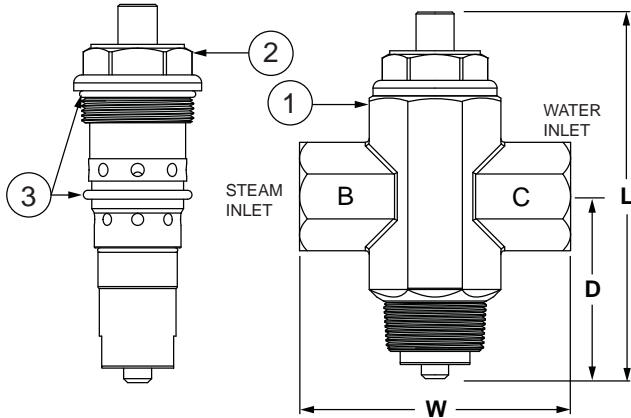
- Process hot water
- Batch fill operations
- Spray cleaning systems for vessels
- Commercial laundry hot water
- Boiler water preheating, deaerating
- Other direct steam injection heating

## VENTURI MIXING CAGE



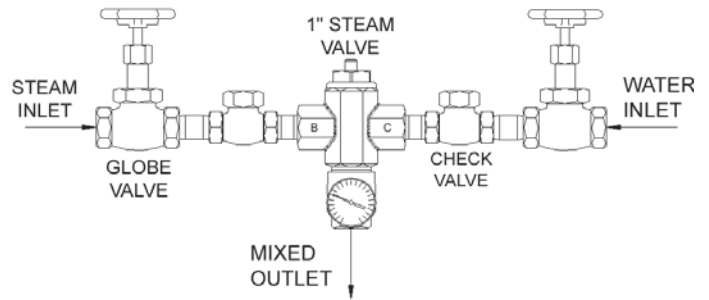
STVM (07/09/14)

### PARTS & MATERIALS



ITEM	DESCRIPTION	MATERIAL
		1" STVM®
1	STVM® VALVE BODY	Cast Bronze or 300 Series S/S
2	STVM® CARTRIDGE	Brass or 300 Series S/S
3	STVM® O-RING PACK	EPDM

### SAMPLE INSTALLATION



### DIMENSIONS & CAPACITIES

SIZE (NPT)	W		D		L		Weight		Maximum Operating Pressure	Maximum Temperature
	in	mm	in	mm	in	mm	Lb	Kg		
1"	4.37	111	2.72	69	5.00	127	2.6	1.18	150 PSIG (10.3 BAR)	366°F (186°C)

### ORDERING

Part Number	Description
374-000000-150	1" STVM®-150°F Valve Bronze
374-000000-185	1" STVM®-185°F Valve Bronze
374-010000-150	1" STVM®-150°F Cartridge Bronze
374-010000-185	1" STVM®-185°F Cartridge Bronze
374-002000-150	1" STVM®-150°F Valve SS
374-002000-185	1" STVM®-185°F Valve SS
374-012000-150	1" STVM®-150°F Cartridge SS
374-012000-185	1" STVM®-185°F Cartridge SS

### NOTES

1. Valve allows for mixing up to the set-point temperature
2. Lower temperatures are available upon request. Consult our engineers for more information
3. All STVM valves are factory tested and covered by a 36 month prorated warranty for stainless steel, 18 months for brass
4. A #20 mesh strainer is recommended for use with all port sizes



Therm-Omega-Tech, Inc.  
353 Ivyland Road  
Warminster, PA 18974

1-877-379-8258  
www.ThermOmegaTech.com  
valves@thermomegatech.com

