

## SS-THVD2 -1/2" THERMOSTATIC VALVE WITH 2 WAY DIVERTER SS-THVD3 -1/2" THERMOSTATIC VALVE WITH 3 WAY DIVERTER

#### **Features:**

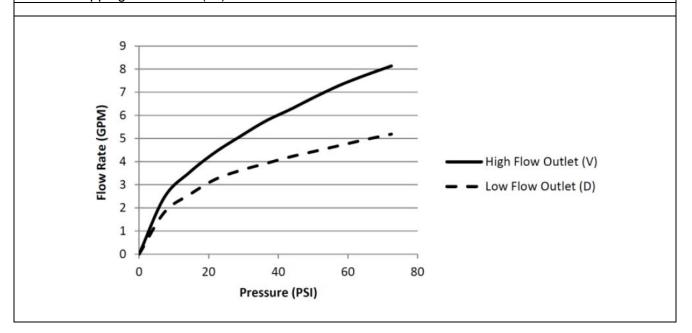
- Ability to pre-select water temperature thus conserving water
- Paraffin wax element maintains water temperature within ± 1.8°F
- Compensates for water pressure fluctuations preventing scalding
- Safety button at 100°F prevents accidental scalding
- High flow rates allow for multiple shower applications

#### **Specifications:**

- o Operating pressure is 2 PSI to 72 PSI
- o When pressure is higher than 72 PSI a pressure reducer (fitted before the valve) is required.
- Temperature range is 50°F to 180°F
- o Recommended setting is 29 PSI and 149°F

#### Note:

- USE TEFLON TAPE OR PIPE SEALANT FOR THREADED CONNECTIONS
- DO NOT USE PLUMBER'S PUTTY ON ANY OF THE BRASS COMPONENTS
   This will cause the finish to tarnish and void the warranty. A non-corrosive Alkoxy Silicone is recommended.
- DURING SWEATING OF LINES DO NOT OVERHEAT CASTING
   Overheating may cause damage to internal mechanism and void the manufacturer's warranty as well as increase the risk of scalding.
- COPPER ADAPTORS MAY BE REQUIRED TO COMPLETE YOUR INSTALLATION
- · Listed by IAPMO, CSA, NSF, and other municipalities
- Shipping weight (lbs.): 5.5
- Shipping dimension (in.): 11 x 9 x 7



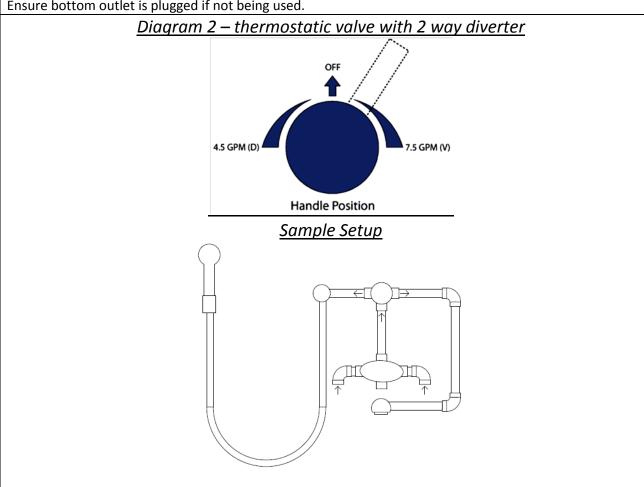
## Thermostatic Shower with Built-in Volume Control/ Diverter

#### Valve Installation

- 1. Flush the lines of all dirt and debris. Failure to completely flush the lines will cause valve failure and will void the manufacturer's warranty
- 2. Fit the valve on the wall without removing the plastic cover on the control spindle. Turning the control spindle will change the temperature setting which is pre-calibrated at the factory
- 3. Connect the hot water supply to the left inlet of the valve (HOT marked with RED paint) and cold supply to the right inlet (COLD marked with BLUE paint).
- 4. Use the plastic mud guard template (part of the package) to position the valve on the wall. This is done by checking the label on the outer template for the minimum/ maximum settings which is 1 ½" to 2 1/8" from the center of the valve inlets to the finished wall.
- 5. Connect the outlet pipe(s). Refer to Diagram 2 for SS-THVD2 valve and to diagram 3 for SS-THVD3 valve.

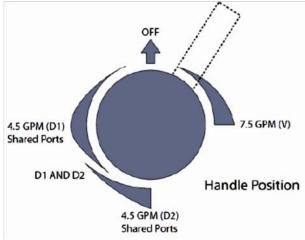
NOTE: Port marked V will output 7.5 gpm and port marked D will put out 4.5 gpm. NOTE: Shared ports are only between ports marked D1 and D2 on the SS-THVD3 valve.

Ensure bottom outlet is plugged if not being used.

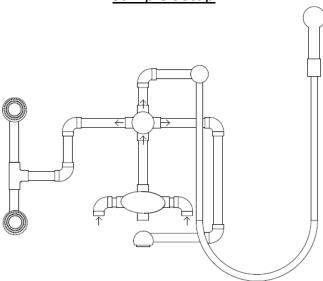








### Sample Setup



#### **Trim Installation**

- a. Screw Temperature Control Dome (6) and Volume Control Dome (7) onto valve.
  - Please note that the Temperature Control Dome (6) has a larger opening than the Volume
     Control Dome (7).
- b. Secure the **Thermostatic Face Plate (1)** onto the valve by sliding over the **Temperature Control Dome (6)** and **Volume Control Dome (7)**
- c. Screw Dome Sleeve (13) onto Temperature Control Dome (6) and Volume Control Dome (7).
- d. Lock the **Thermostatic Face Plate (1)** securely against the wall using the **Thermostatic Face Plate** Lock Ring (2).
- e. Ensure Temperature Stop ring is installed with red dot at 12 o'clock position, and thermostatic handle is installed with push button at 12 o'clock position.

## Thermostatic Shower with Built-in Volume Control/ Diverter

#### **Temperature Setting**

The delivered temperature of the valve varies depending on the temperature of the supplied hot water. The valve is factory set at a supplied temperature of 149°F under balanced pressures. Depending on your preferred hot water temperature setting, it may be necessary to adjust the calibrations of the valve. The limit override button is preset at 100°F and can be adjusted as described below.

- 1. Select 100°F on the control handle.
- 2. Without turning the handle, remove the handle by unscrewing the screw and pulling off (screw may be concealed and/or fastened with set screws).
- 3. Use a thermometer to check the delivered temperature on one of the outlets.
- 4. Adjust water temperature to 100°F by hand turning the cartridge stem slowly left or right.
- 5. Ensure that the temperature stop-ring in installed with red dot at 12 o'clock position.

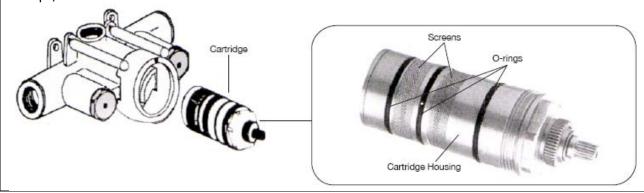
  Push the handle back on the valve with the push button at the 12 o'clock position.

#### **Removal and Maintenance of Cartridge**

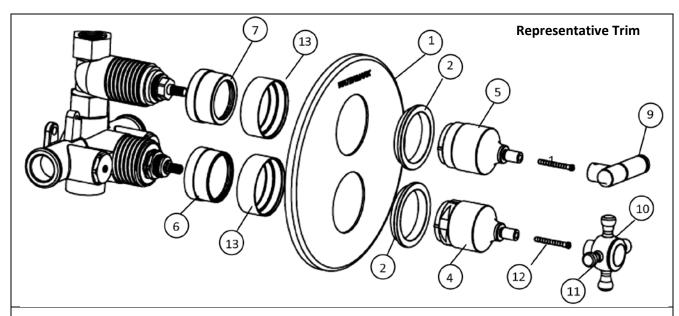
This thermostatic valve has screens to prevent dirt and unwanted particles from damaging the valve. Clogged screens can cause reduced flow and inefficient temperature mixture by the valve. You can easily clean the screens by following the instructions below.

- 1. Unscrew the two screws on the cover faceplate and remove the plate.
- 2. Shut off the water inlets by tightening the two screws at the two check stop valves.
- 3. Remove the handle by unscrewing the screw and pulling off (screw may be concealed and/or fastened with set screws).
- 4. Pull off the temperature stop-ring.
- 5. Unscrew the cartridge with a 24 mm wrench or other adjustable wrench in a counter-clockwise position and gently pull it out.
- 6. Clean the screens and rinse with water. If necessary, soak in a 50/50 mix of white vinegar/ water or a de-scaling agent until all dirt is dissolved. Grease the o-rings with a silicone based grease and wipe the housing with a wet cloth before reassembling.
- 7. Reassemble the valve by reversing these instructions. Make sure the indentation on the shroud, the red dot on the temperature limit-ring, and push button on the handle are all in the aligned in the 12 o'clock position.

**Note:** To prevent the handle from accumulating mineral build up, which can cause the handle to "lock up", the handle must be turned on an occasional basis.

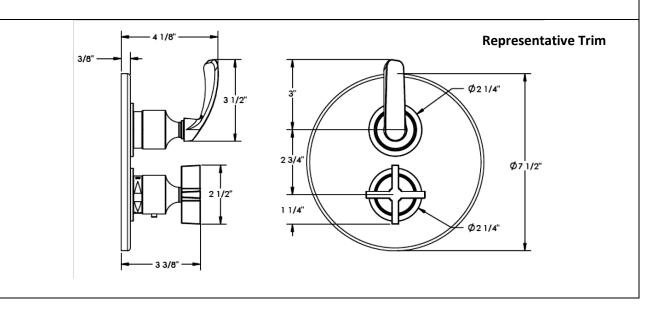






Parts Checklist				
Carefully remove all parts from the box.				
The following parts should be included.				
	Description	Qty		
1	Face plate	1		
2	Lock Ring	2		
4	Temperature control	1		
	handle post			
5	5 Volume control handle			
	post			
6 Temperature control		1		
	dome			

Parts Checklist				
7	Volume control dome	1		
9	Volume Control handle	1		
10	Temperature Control	1		
	handle			
11	Temperature control set	1		
	screw (for some models)			
12	set screw (for some	2		
	models)			
13	Dome sleeve (raw brass)	2		



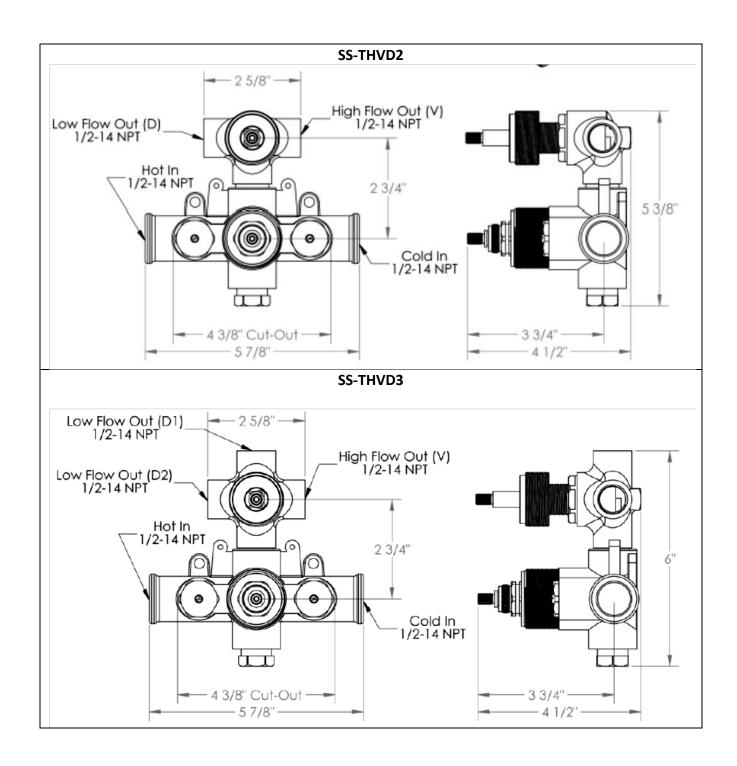


# Thermostatic Shower with Built-in Volume Control/ Diverter

### **Troubleshooting**

Malfunction	Cause	Remedy	
Cannot regulate temperature	Dirt in check valves	Remove and clean check valves	
	Water supply reversed	Reverse hot and cold supply lines	
	Valve installed upside down	Reverse valve	
Hot and cold water do not mix	Lack of water pressure at one	Correct water pressure at source	
	of the inlets		
	Black at the contract	Remove shower head and clean debris.	
	Blocked shower head	If necessary, soak in a 50/50 mix of	
		white vinegar/ water or a de-scaling agent until all dirt is dissolved.	
Water not hot enough /	Debris in check valves	Remove and clean check valves	
Water too hot	Bestis in effect valves	Nemove and cream check varves	
		Calibrate valve following instructions on	
	Valve not properly calibrated	previous page	
	Water heater setting incorrect	Adjust water heater temperature setting	
Temperature selected on handle is different than actual	Debris in check valves	Remove and clean check valves	
water temperature	Valve not properly calibrated	Calibrate valve following instructions on	
water temperature	valve not properly camprated	previous page	
		promote page	
	Uneven hot & cold water	Check and adjust water pressure for	
	pressure	both hot & cold supply lines	
Handle does not turn	Mineral build up	Remove and clean cartridge following	
		instructions above	
Low water pressure	Low water pressure	Check and adjust water pressure at	
		source	
	Debris in cartridge	Remove and clean cartridge following	
		instructions above	
	Debris in check valves	Remove and clean check valves	
	Blocked shower head	Remove shower head and clean debris.	
	Biocked Silowel Head	If necessary, soak in a 50/50 mix of	
		white vinegar/ water or a de-scaling	
		agent until all dirt is dissolved.	
Leaking shower head	Fault cartridge in wall stop/	Repair or replace cartridge in wall stop/	
	volume control	volume control	
Valve body too deep into wall	The measured rough in or	Install the proper extension kit:	
	finished wall surface is incorrect	SS-EXT50 (need to specify finish)	





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