

# Tub-Shower System S-4102 **Installation Brief**

### **Model Number**

S-4102 Tub-Shower System

## **Decorative Finish Code**

append to part numbers if applicable

-STN Satin Nickel

-PNL Polished Nickel

Chrome (standard) --

## **Rough-in Installation**

Control valve, piping & fittings Reference rough-in dimension illustration on page 2 as required.

#### 1) Determine wall thickness

- Determine type of wall and wall thickness where valve will be mounted.
- Consider whether to use mounting plate by reviewing figure 2 below.
- Skip ahead to Step 3 if mounting plate will not be used.

#### 2) Attach mounting plate to valve Seat mounting plate against valve assembly as illustrated in figure 1.

**Protective shield** 

installation. "snap on-off

When mounting plate is used,

p/n T-176

p/n T-177

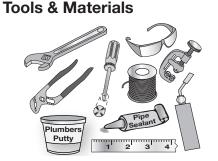
wall cutout hole size

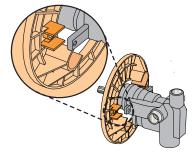
3-1/2" (95 mm) min

4" (101 mm) max

then shield is optional for protecting end of valve during

Walls for using T-177 mounting plate Fiberglass or acrylic walls (required) Plaster or other type walls (optional) 1/16" (2 mm) min = 1/2" (13 mm) max -





#### 3) Atl

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- Att sna



Tools & Materials		<ul> <li>Need Help?</li> <li>Contact Symmons customer service at (800) 796-6667, (781) 848-2250, customerservice@symmons.com Mon - Fri 7:30 am - 7:00 pm EST</li> <li>Please check Symmons website for technical help, the latest product information and warranty policy. www.symmons.com/service</li> </ul>
Figure 1 Mounting 3) Attach protective sh • Reference figure 2 to det whether shield is require • Attach plastic protective snap fitting over end of y	i <b>eld</b> ermine ed. shield by	<ul> <li>4) Install piping, fittings and control valve Piping and fittings not supplied</li> <li>Control Valve Install valve through cutout hole in wall as specified in figure 2 below and dimension illustration on page 2.</li> <li>Showerhead (S on valve) Pipe from outlet port on valve marked S to showerhead mounting arm location.</li> <li>Hot &amp; Cold Supply (H &amp; C) Pipe hot water supply to valve input marked H and cold water supply to valve input marked C.</li> <li>Tub Spout (T on valve) Pipe from outlet port on valve marked T to tub spout.</li> </ul>
g plate ed) nal) max finished wall finished wall fillsh against inner wall	1/2" (13 mm)	ished wall t 1/2" 3 mm) terline d wall uust be side of d surface e size ) min

#### Figure 2 Mounting valve

4" (101 mm) max



**Important!** Do not substitute Tub Spout with restrictive fittings such as PEX, CPVC or outlet accessories such as a ledge hose and spray that would spout, subject the valve excessive internal back pressure, otherwise operation will be compromised.

#### 5) Remove protective shield

If attached in Step 3, then remove shield snap fitted over the end of valve spindle once valve is securely installed and wall finish work has been completed.

# 6) Adjust valve packing nut

*Reference figure 3* 

- Turn hot & cold supplies on. Valve will not operate unless both hot and cold water supply pressures are on.
- Place handle over control spindle stem.

 Adjust *packing nut* for positive frictional resistance as handle is rotated from shutoff position across adjustment range.

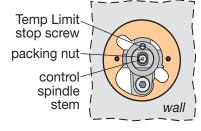


Figure 3 Valve adjustments

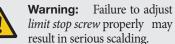
#### 7) Flush system and check for leaks

- Turn valve to the warm position and run for a few minutes.
- If system is dirty, remove valve spindle in center of valve to ensure proper flushing. (See service instructions.)

 Check for leaks around valve assembly and all pipe fittings.

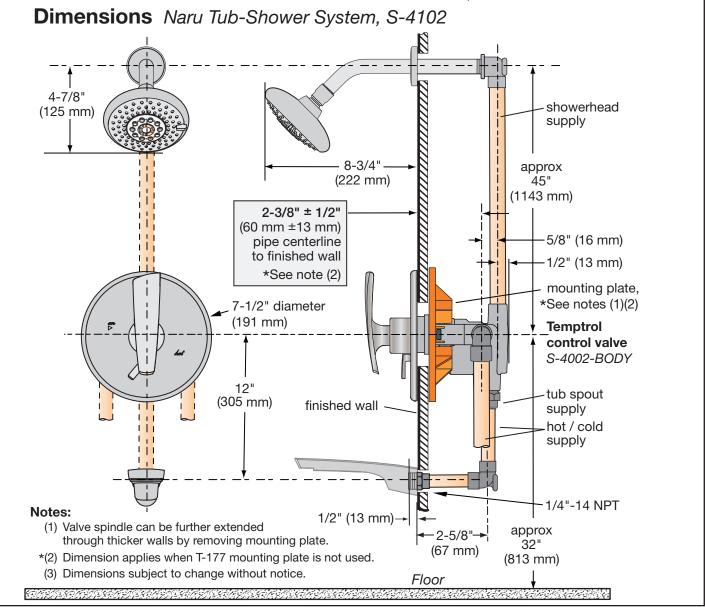
#### 8) Set Temp Limit stop screw Reference figure 3

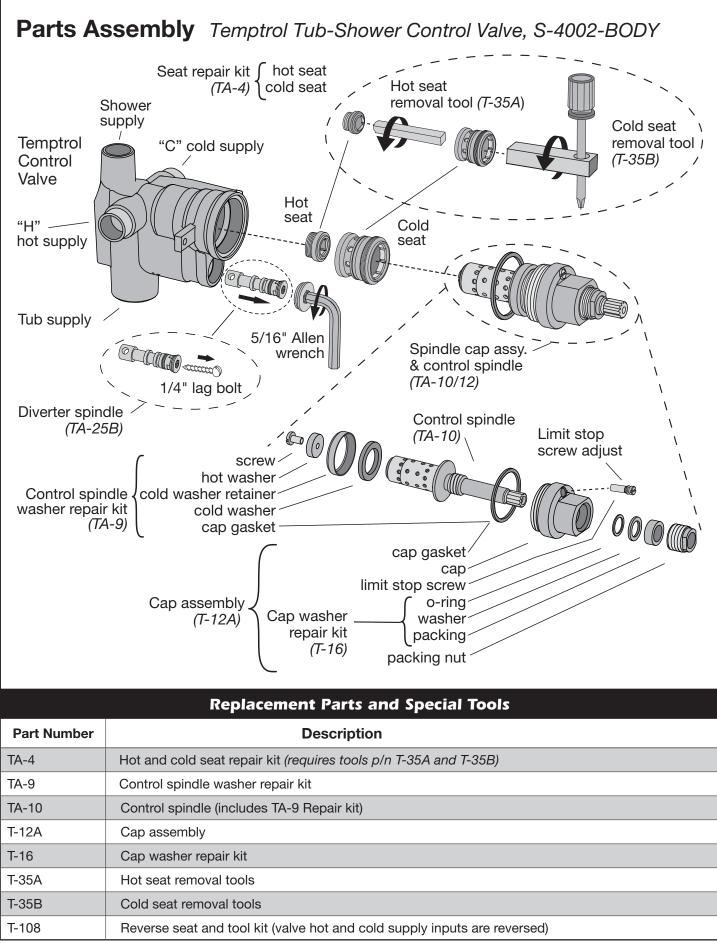
The limit stop screw limits valve handle from being turned to maximum position resulting in excessive hot water discharge temperatures.



- Place handle on control spindle and open valve to maximum desired temperature.
- Turn limit stop screw clockwise until it seats.

Note: Do not install positive shut-off devices on control valve outlet or devices that do not allow the valve to flow at least 1.5 gpm.





# **Trouble Shooting Chart**

Solution	
Supplies are Turn on both supplies. Valve will not operate unless both hot and cold water pressure is on.	
<ol> <li>worn or is lodged</li> <li>t surfaces.</li> <li>Replace washers using <i>control spindle washer</i> <i>repair kit</i>, p/n TA-9.</li> <li>Replace hot &amp; cold seats using <i>hot/cold seat</i> <i>repair kit</i>, p/n TA-4.</li> </ol>	
<ol> <li>Open valve halfway, remove handle and tap spindle with plastic hammer.</li> <li>Check <i>water pressure balancing piston</i> in <i>control spindle</i>. See service instructions.</li> <li>Replace <i>control spindle</i>, p/n TA-10.</li> </ol>	
Same as above	
Same as above	
r supply (i.e. Reduce maximum flow by using volume control adjustment on valve or showerhead. This will allow longer period of use before overdrawing hot water supply.	
r (i.e. the hot ve's cold inlet bed to the hot installations may also require replacing the hot seat, <i>hot/cold seat repair kit</i> , p/n TA-4.	
<ul> <li>If piston appears restricted then do the following:</li> <li>(1) Tap the handle or stem end of the spindle against a solid object to free</li> </ul>	
repair kitthe piston.(2) Try soaking in household vinegar and repeat step (1).	
<ul> <li>If unable to free piston, replace controphile spindle ond unscrew cold ng channel lock</li> <li>If unable to free piston, replace controphile spindle, p/n TA-10.</li> <li>Important: Do not attemption of the piston of</li></ul>	
<ul> <li>Pliers.</li> <li>Remove hot washer by removing hot washer screw.</li> </ul>	
re Valve re-assembly Reassemble by reversing above procedures	
he control spindleprocedures.water pressure- is the heart of theAfter the control spindle assembly (TA-10) is threaded back into the spindle cap assembly (T-12A) ensure control spindle is rotated 1/2 turn clockwise from its maximum counter clockwise rotational position. Failure to do this will damage assembly.	
he <i>control spindle</i> water pressure- is the heart of the <i>le assembly</i> . bly and listen for would be free to slide	

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