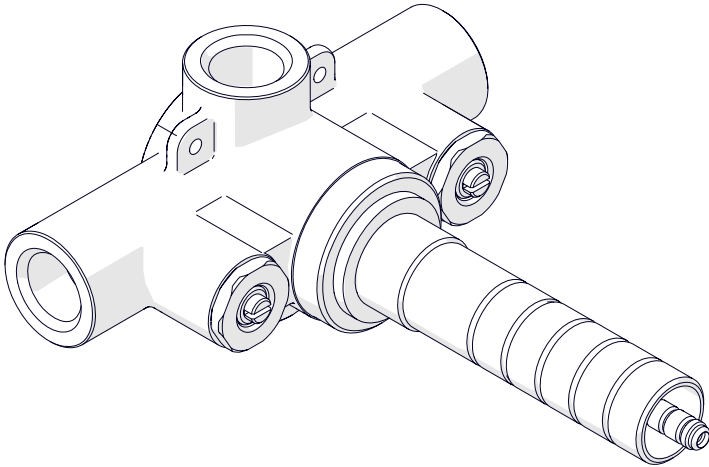


UNIVERSAL  
1/2" THERMOSTATIC VALVE

# Installation Guidelines

STYLE No. GUTH56 †  
CODE No. GUSV56R



**SPECIFICATIONS:**

Fittings Hole Diameter: Ø4-1/2" [Ø114mm] \*  
Inlet and Outlet Connection: 1/2" Female NPT †  
Unrestricted Max Flow Rate @ 45psi [3bar]: 7gpm [26L/min]  
Valve Material: Wax Element  
Water Pressure Maximum: 85psi [6.0bar]  
Water Pressure Minimum: 20psi [1.5bar]  
Water Pressure Recommended: 45psi [3.0bar]

\* Ø4-1/2" [Ø133mm] hole is required for servicing.

† UK Style No. **GU56TH** supplied with 4 **BSP** Adapters, assembly required.

**IMPORTANT:**

- To ensure this VALVE is installed properly, you must read and follow these guidelines.
- The owner/user of this VALVE must keep this information for future reference.
- This VALVE and associated TRIM (SOLD SEPARATELY) must be installed by a professional licensed contractor and must be on-site prior to rough-in, this allows the installer to visualize the installation. The VALVE rough-in depth is measured from the center of the inlets to the surface of the finished wall and **VARIES** depending on the TRIM being used.
- Inspect this VALVE to ensure you have all the parts required for proper installation. This VALVE is sold partially assembled but shown fully disassembled for illustrative and service purposes only.
- This THERMOSTATIC VALVE only mixes hot and cold water and does not have volume control or shut off capabilities. A diverter or wall valve controls on/off/volume and must be installed for each fitting that will have water flowing to it. (ALL VALVES SOLD SEPARATELY).

- This VALVE **CANNOT** be used with a **DIVERTING** tub spout.
- This VALVE features anti-scald protection. The risk of scalding exists until the installer had properly calibrated/adjusted the temperature setting during final TRIM installation.
- Be sure your installation conforms to federal, state, and local codes. In the State of Massachusetts, all installations must comply with the rules and regulations set forth within 248 CMR.
- Supply fittings are designed in accordance with pressure and temperature ratings specified in ASME A112.18.1/B125.
- If this VALVE will remain unused for an extended period of time (over 3 months), then the water to the VALVE should be shut off (via service stops or system control valve) and the diverter or wall valves should be opened to allow the water in the THERMOSTATIC VALVE to evaporate. This is to keep the CARTRIDGE from being exposed to stagnant or hard water, which can cause the VALVE to malfunction.

**ROUGH-IN:**

1. Check incoming water pressure.
  2. **IMPORTANT:** It is **RECOMMENDED** to flush the supply lines prior to installing the VALVE.
- **CAUTION: Refer to the Installation Guidelines of the specific TRIM being used for the MAXIMUM and MINIMUM rough-in depth dimensions.**
  - **CAUTION:** The VALVE rough-in depth is measured from the center of the inlets to the surface of the finished wall (see Figure - 01) and varies depending on the TRIM used.

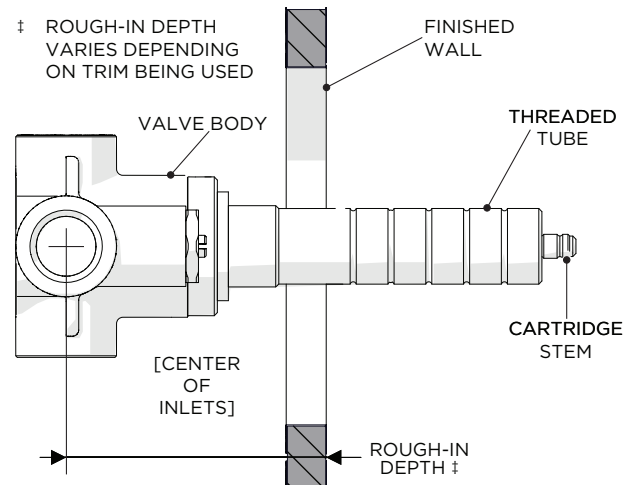


FIGURE - 01

- **CAUTION: DO NOT APPLY DIRECT HEAT TO THE VALVE.** Pre-solder any connections to prevent damage to the CARTRIDGE and SERVICE STOP SEALS.
- This VALVE includes integrated SERVICE STOPS. Make sure the TILE GUARD is in place to ensure future access for servicing.

These guidelines have been prepared for the professional contractor to aid in the installation of: **UNIVERSAL 1/2" THERMOSTATIC VALVE (STYLE NO. GUTH56, GU56TH).**  
All dimensions are based on original specification and are subject to change and variation.  
Please consult your Design Associate for current specifications.

UNIVERSAL  
1/2" THERMOSTATIC VALVE

# Installation Guidelines

- Remove the TILE GUARD from the VALVE by unthreading the SCREWS. See Figure - 02.

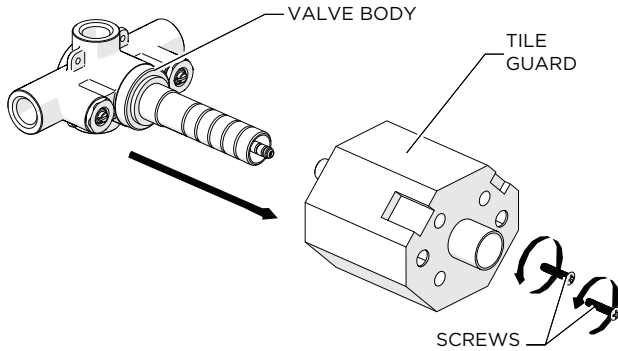


FIGURE - 02

- Make sure that the HOT and COLD supply lines are connected to the VALVE according to the MARKINGS on the VALVE BODY. **NO INVERSE CARTRIDGE IS AVAILABLE.** See Figure - 03

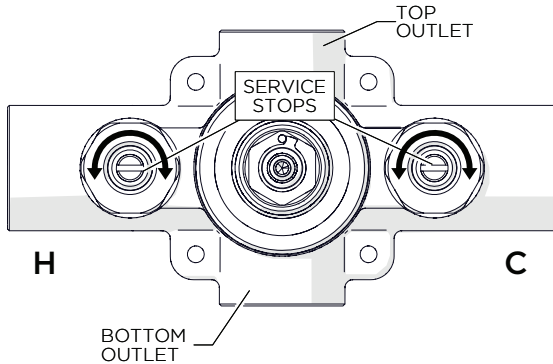


FIGURE - 03

- See Figure - 04 for steps 5 - 8.

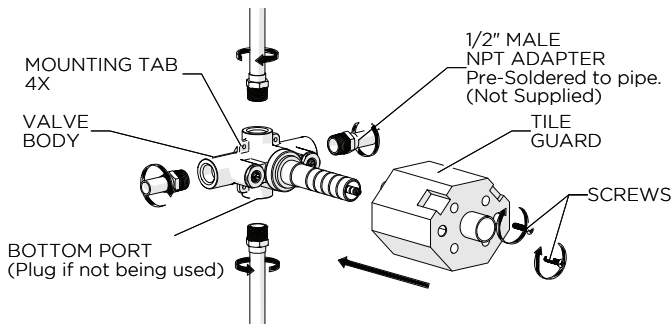


FIGURE - 04

- Run 1/2" [15mm] copper supply lines to the proper height of the VALVE INLETS and be sure to secure all piping and fittings.

**CAUTION: DO NOT APPLY DIRECT HEAT TO THE VALVE**

**NOTE:** The VALVE has 4 mounting TABS. 2 of these TABS are used to hold the TILE GUARD to the VALVE and the other 2 can be used to secure the VALVE to adequate blocking.

- The bottom port of the VALVE is NOT plugged and can be used to supply water to other fittings. Install a 1/2" NPT PLUG (not supplied) if the port will not be used.

- For each fitting that will have water flowing to it, install a diverter or wall valve (SOLD SEPARATELY) according to the flow direction arrow marked on the valve.

**CAUTION:** The rough-in depth of the diverter or wall valve **ALSO** varies depending on the TRIM being used. Refer to the Installation Guidelines of the specific TRIM and DIVERTER or WALL VALVE being used for rough-in and other related information.

- Install the TILE GUARD to protect the CARTRIDGE during the completion of the finished wall and to create the exact opening to ensure access to the SERVICE STOPS for future servicing.

**INSPECT THE INSTALLATION:**

- Remove TILE GUARD and turn on water supply and inspect all connections for leaks.
- Turn off the water supply and close the SERVICE STOPS.
- Reinstall TILE GUARD.

**TEMPERATURE CALIBRATION:**

- The risk of scalding exists until the installer has properly calibrated/adjusted the temperature setting prior to final TRIM installation.
- See Figure - 05 for steps 12 - 13.

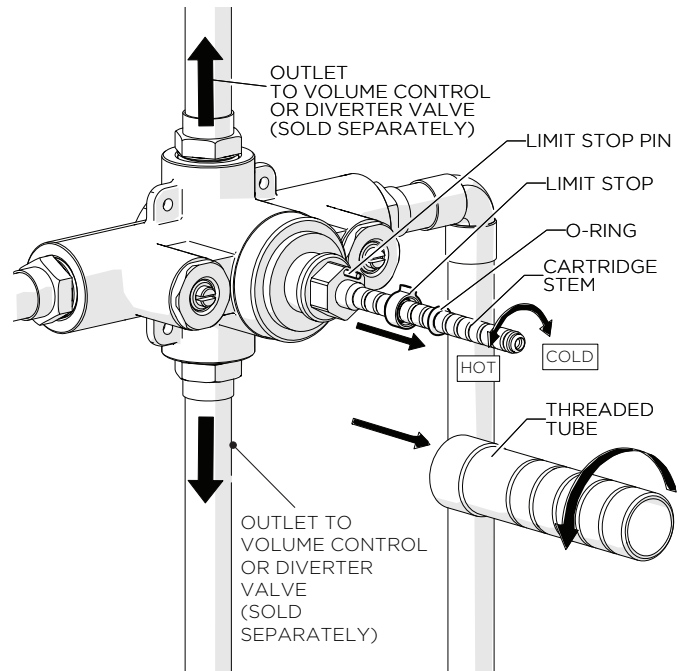


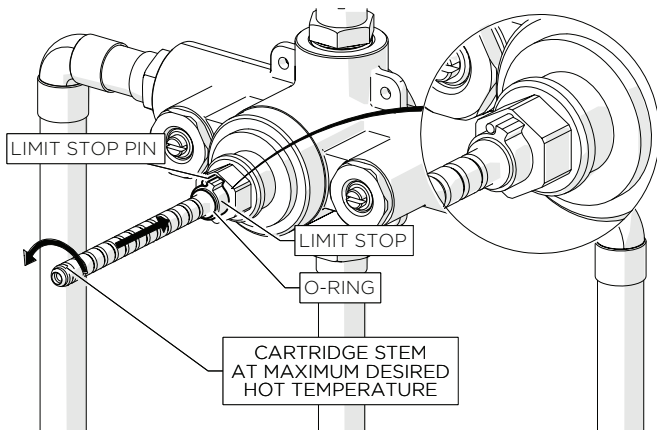
FIGURE - 05

- Remove the TILE GUARD and THREADED TUBE. Slide the O-RING and LIMIT STOP up the CARTRIDGE STEM. **DO NOT REMOVE OR DAMAGE THE O-RING.**

- Turn on the water supply and a diverter or wall valve to run water through the THERMOSTATIC VALVE.

These guidelines have been prepared for the professional contractor to aid in the installation of: UNIVERSAL 1/2" THERMOSTATIC VALVE (STYLE NO. GUTH56, GU56TH). All dimensions are based on original specification and are subject to change and variation. Please consult your Design Associate for current specifications.

- See Figure - 06 for steps 14 - 16.



**FIGURE - 06**

14. Slowly rotate the CARTRIDGE STEM clockwise to attain full cold, then rotate it counter-clockwise to attain full hot. Verify that a full range of temperatures exists.

**NOTE:** It is approximately 3/4 of a rotation from full cold to full hot.

15. With the water running, rotate the CARTRIDGE STEM to adjust the temperature to the **MAXIMUM** desired bathing temperature, verified with a thermometer.

**NOTE:** It is **NOT RECOMMENDED** to exceed 110°F.

16. With the CARTRIDGE STEM at the maximum desired bathing temperature, slide the LIMIT STOP back onto the CARTRIDGE STEM, making sure that it is making contact with the LIMIT STOP PIN. Slide the O-RING back to its original position to prevent the LIMIT STOP from sliding off the stem.

17. Turn off the water.

**INSPECT THE CALIBRATION AND INSTALLATION:**

18. Turn the CARTRIDGE STEM clockwise, then turn the water on and confirm that the LIMIT STOP is functioning properly by turning the STEM counter-clockwise at which point the LIMIT STOP should hit the PIN and stop.

19. Verify the temperature is the **MAXIMUM** desired temperature from the previous step. If not, repeat the calibration process.

20. Re-install the THREADED TUBE back onto the VALVE.

21. Re-install the TILE GUARD using the SCREWS until construction is complete.

- If further assistance is required, please contact Product Support at 1-800-927-2120 Monday through Friday, 8am - 6pm EST.

- Refer to the separate Service Parts Documents for available replacement parts.

- † BSP Adapter can be ordered separately:

**STYLE No.** UNUK02  
**ITEM No.** 45-57632-24328