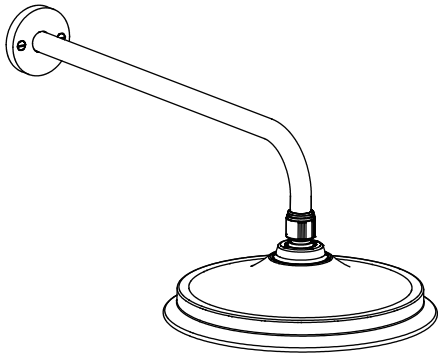
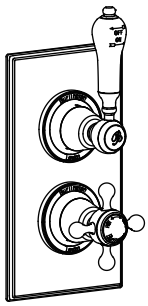
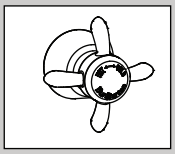
Trent Thermostatic Single Outlet Concealed Shower Valve with Fixed Shower Arm - TF1S



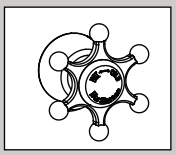


Options:

Burlington has 2 different style handles for your selection, when using these additional handles the indices will need to be utilised from the original handles.



Anglesey

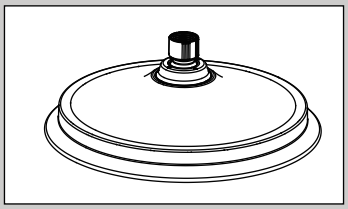


Birkenhead

NOT INCLUDED IN THE BOX

Options:

Burlington has a shower head of 3 different sizes for your selection.



NOT INCLUDED IN THE BOX

Important

- We recommend that this product is installed by a qualified professional contractor. Such as a plumber who is certified by NVQ (National Vocational Qualification) or SNVQ (Scottish National Vocational Qualification) Level 3
- Please check this product immediately to ensure that it has not been damaged and is complete. Before installation, please make sure this product is the correct model and you have all the parts required for installation and using.
- This valve is a mixing device and therefore requires the water supplies to be reasonably balanced, otherwise we recommend a pressure reducing valve to be fitted.
- Please flush the water system to ensure that no metal swarf, solder, and other impurities can enter the valves.
- Turn off water supply before commencing work, this should be done at the isolating valves of inlet feeds if fitted or main stopcock.
- Please read these instructions carefully and keep it for future reference.

Conditions for the use of thermostatic mixing valve

The thermostatic valve has been designed to be compliant with the relevant UK standards applicable to this type of product governed by Type 2 TMV and WRAS . The valve is tested against BS EN 1111.
The valve will operate under low pressure but it is recommended that the minimum operating pressure is 0.5 bar.

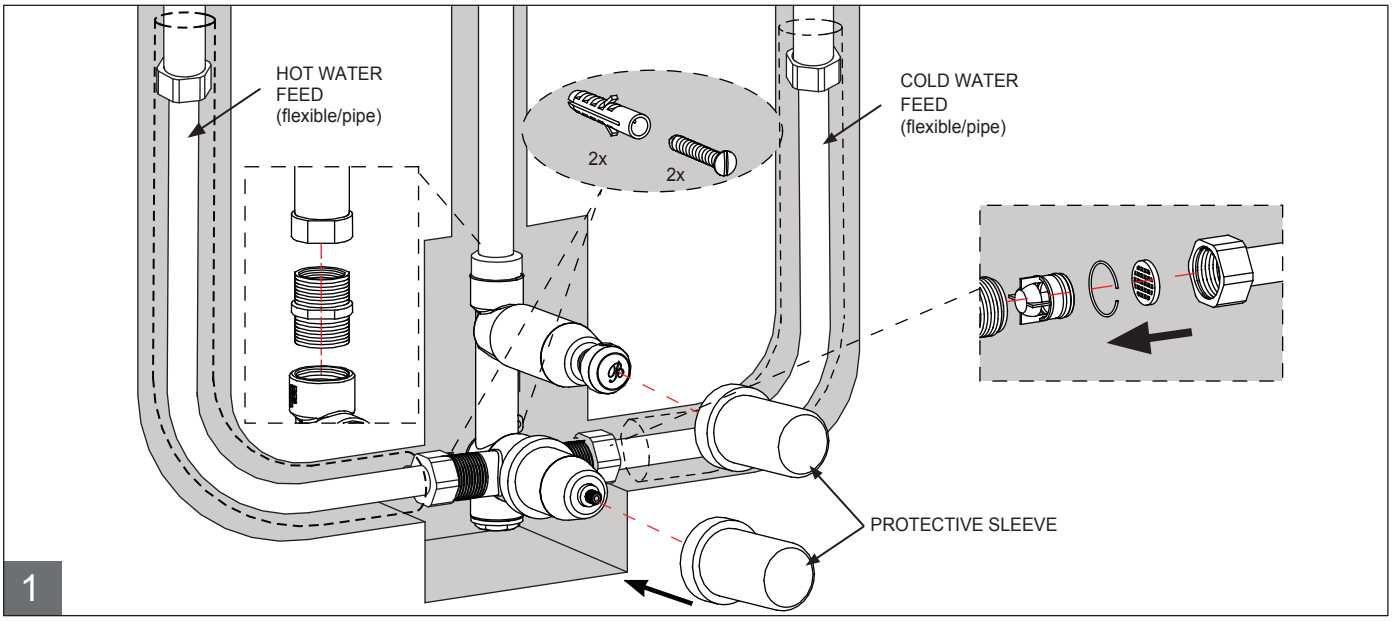
- This thermostatic valve is suitable for use with all water systems up to a maximum operating pressure of 5.0 bar, (beyond which we recommend pressure reducing valves to be fitted.)
- The valve is provided with one outlet (on the top), which is controlled by a flow control cartridge. Commonly used for a main shower head or a flexible shower kit.
- An independent, flexible hot and cold water supply pipe is recommended for use to easy maintenance.
- If installing a shower pump always install the pump before the shower valve.

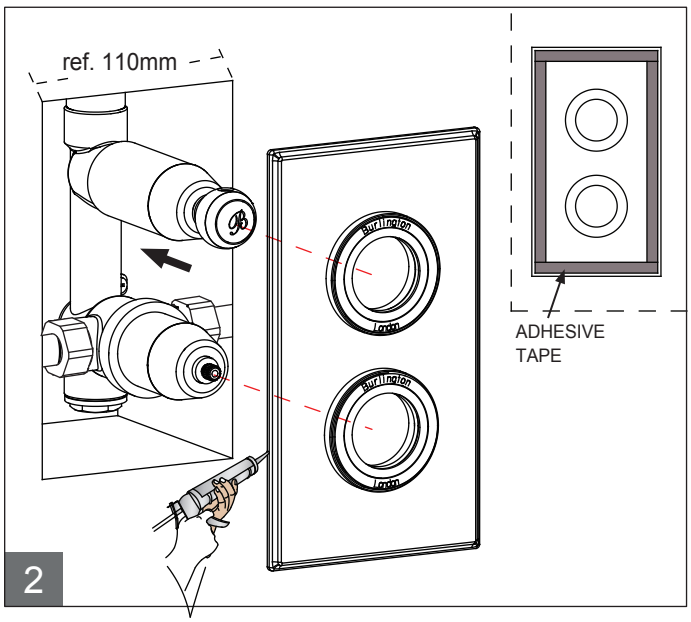
The list below shows the recommended limits for correct operation;

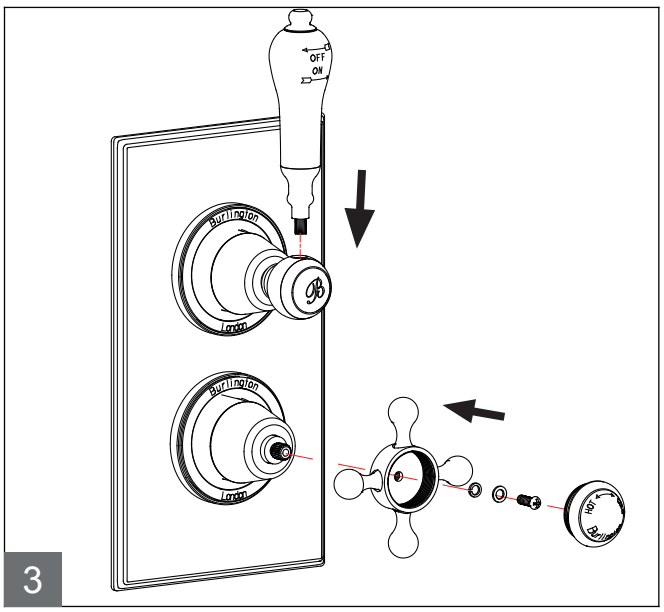
	High Pressure
Maximum Static Pressure – Bar	10
Flow Pressure, Hot & Cold - Bar	0.5 to 5
Hot Supply Temperature - °C	55 to 65
Cold Supply Temperature - °C	Equal to or less than 25°

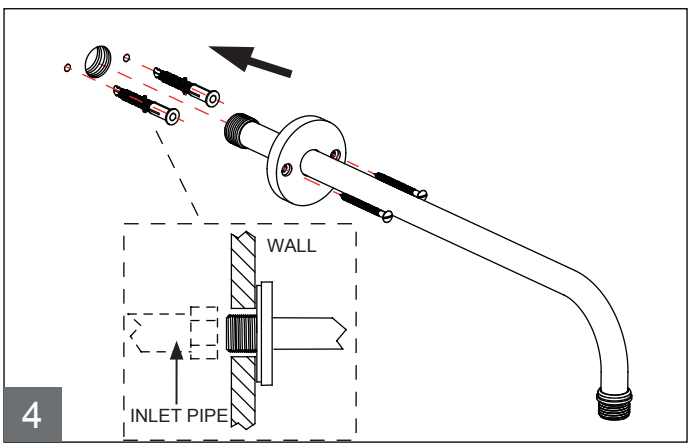
The British Burns Association recommends 37 to 37.5°C as a comfortable bathing temperature for children. In premises covered by the Care Standards Act 2000, the maximum mixed water outlet temperature of 43°C.

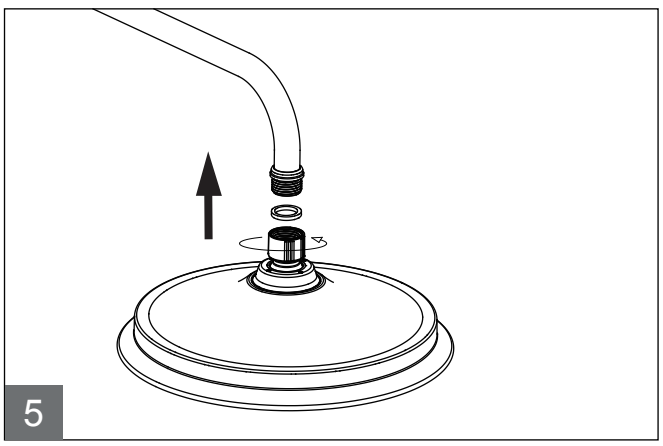
Installation











The valve should be installed in accordance with the water bye-laws. For further details refer to the latest copy of Water Bye-laws guide or your local water authority.

Note: Please check for any hidden pipes and cables before drilling holes in the wall.

The fitting of isolation valves is required as close as is practicable to both hot and cold water supply inlets.

1. Put the valve (make sure the two protective sleeves are protecting the finished section) onto the wall and mark the position of the fixing lugs (X2).
2. Make sure the valve is set back from the front face of the wall by the appropriate depth to allow for plasterboard, tiling and filling etc. (min. 75 to max. 90mm)
3. Mount the valve to the wall using suitable fixings (see Fig 1).
4. Inlets and outlets are all tapped 3/4". Make all the pipe work connections using a thread sealer. Don't use the tapered threaded adaptors.

5.Outlet at the top of valve is recommended for shower only, the pipe connection is recommended as the diagram above (see Fig 1). That will be convenient for taking off the valve for easy maintenance.

6. Turn on supplies and test all connections for water tightness. (if necessary, the filter and check valve need to be cleaned)

7. Then install the plasterboard and tile the wall.

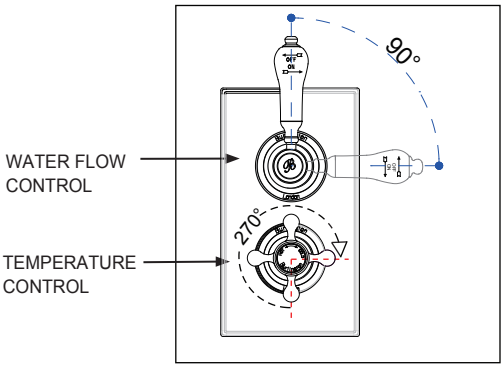
8. Remove the adhesive tape film on the backside of back plate. Paste the back plate on the wall (see Fig 2).

9. Apply a narrow bead of silicone sealant around the back edge of the back plate and carefully press into position.

10. Mount the handles into position (see Fig 3).

11. Install the shower arm (see Fig 4).

12. Finally put the shower head onto the shower arm (see Fig 5).

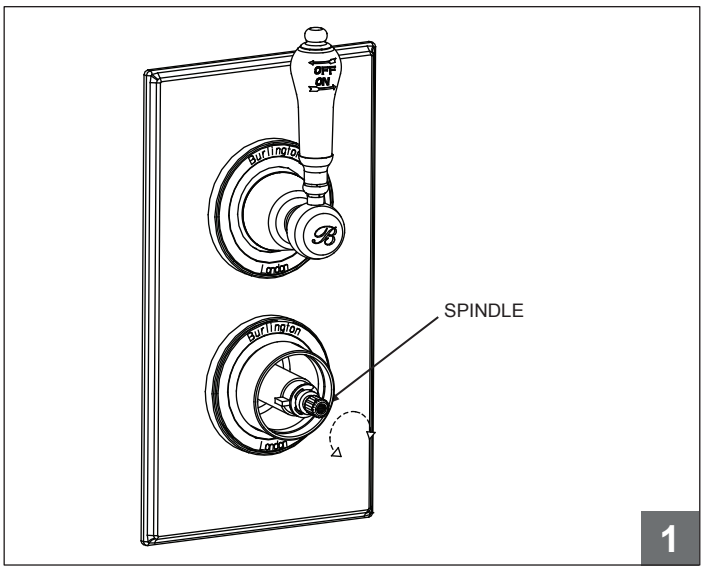


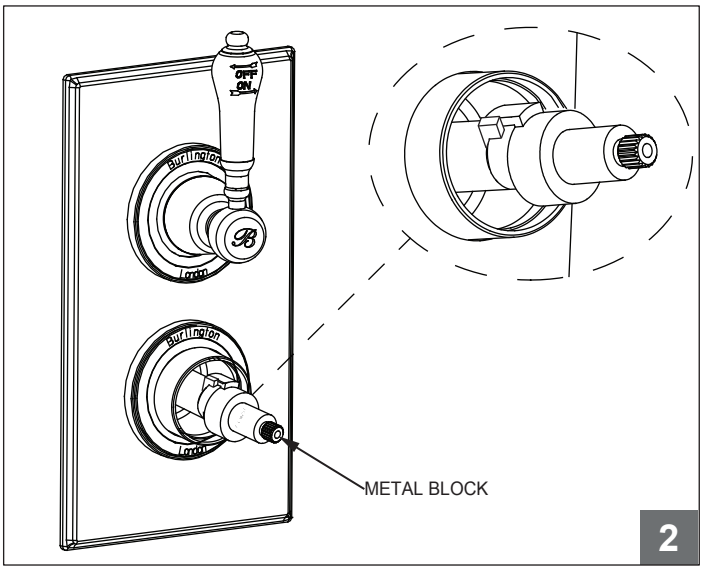
Operation

1. Turn the water flow control handle to increase/decrease the water flow and turn on/off.
2. Turn the temperature control handle to increase/decrease the water temperature.

Temperature Setting

The temperature control handles on this product are factory set and should require no adjustment.
However, if for any reason the handles and/or the cartridge is removed it is important the following procedure is followed.





1) Remove the temperature control handle, metal block as the page 2 diagram.

2) Rotate the exposed thermostatic spindle (clockwise for cold, and anti-clockwise for hot), until the maximum desired showering temperature is set. The suggested maximum “pre-set” temperature is 42°C (see Fig 1).

3) Without any move at the spindle, replace the metal block so that limit stop up to the right hand side of the limit stop on the cartridge (see Fig 2).

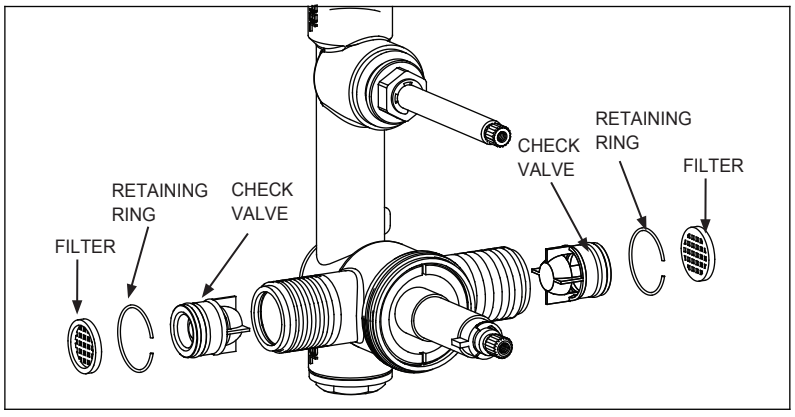
4) Then refit the temperature control handle.

Maintenance

* After a long time usage of thermostatic valve, there will be some waste debris from the water pipe on and around the check valve or thermostatic cartridge, which will affect the flow and sensitivity of automatical temperature adjustment. Please take out the thermostatic cartridge, and clean the cartridge strainer.

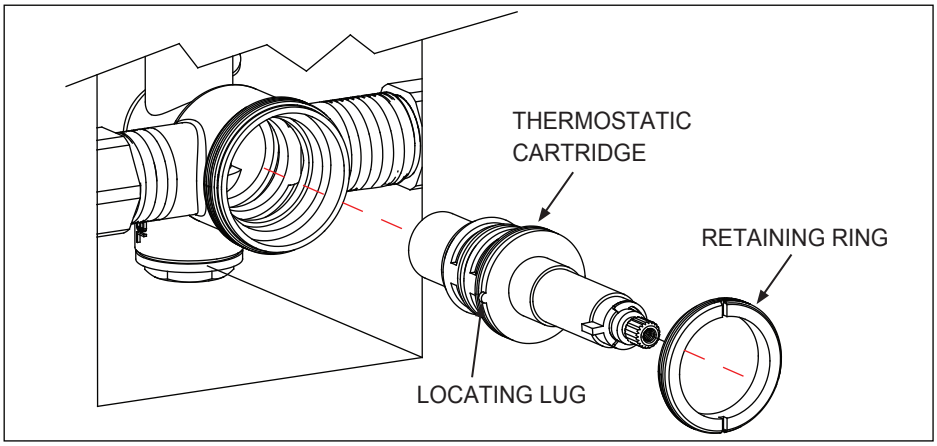
* To avoid damage, please remove all finished parts before any maintenance takes place.

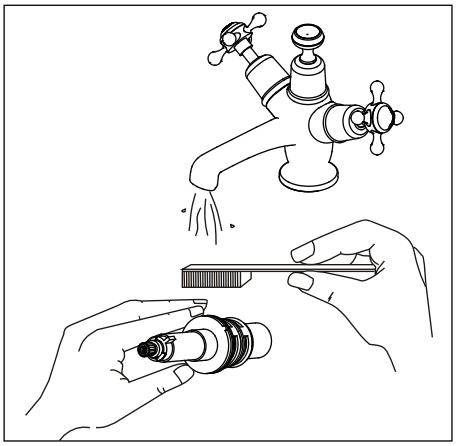
Maintenance (Filter & Check valve)



A) Cutoff the Hot & Cold supply at the isolating valve.
B) Disconnect the hot & cold water supply from the valve.
C) Use a suitable screwdriver to remove the fixing screws.
D) Fetch out the valve, and take out the filter, check valve.
E) Clean the filter and check valve with clean running water, dry and lightly grease the seals. (only use silicone grease)
F) Put back all of the parts in sequence.

Maintenance (Thermostatic Cartridge)





The concealed thermostatic cartridges should give trouble free service, but in the event of failure, servicing is straight forward.

A) Remove the cartridge retaining ring.

B) Pull out the thermostatic cartridge.

C) Wash the thermostatic cartridge with clean running water, dry and lightly grease the seals (only use silicone grease).

D) Put back the thermostatic cartridge (The locating lug should be sit inside the socket of housing), then tighten the retaining ring.

Commissioning & Annual Test

The installation of thermostatic mixing valves must comply with the requirement of the Water Supply (Water Fittings) Regulations 1999.

Type 2 valve must be tested once a year, to check if it is out of the original maximum temperature set.

1. Prepare a calibrated thermometer.
2. Adjust to maximum water temperature.
3. Allow water running 5 seconds for stability, measure the mixed water temperature at the outlet.
   - The mixed water temperature at the outlet should never exceed 42°C for showers.
   - The mixed water temperature at the outlet should never exceed 46°C for bath filler.

Note: 46°C is the maximum mixed water temperature from the bath tap. The maximum temperature takes account of the allowable temperature tolerances inherent in thermostatic mixing valves and temperature losses in metal baths. It is not a safe bathing temperature for adults or children. The British Burns Association recommends 37 to 37.5°C as a comfortable bathing temperature for children. In premises covered by the Care Standards Act 2000, the maximum mixed water outlet temperature is 43°C.

IF NOT, then the adjustment of the temperature is necessary following the " Temperature Setting "

4. Close the isolating valve at the Cold water supply. While the flowing is residual, and the water temperature has no any change obviously from the initial maximum temperatue set.
5. Reopen the Cold supply, retest the water temperature. if also having no change obviously. Then the valve is working correctly, no further service work is required.

Trouble Shooting

1. Output water temperature does not correspond with temperature set

Cause: Thermostat has not been adjusted base on the existing home water system

Remedy: Adjust the thermostat, refer to "Temperature Setting" procedure.

Cause: Hot Water temperature too low.

Remedy: Adjuster the water heater, increase hot water temperature to 65°C

2. Crossflow, cold water being forced into hot water pipe, or vice versa, when valve is closed

Cause: check valves dirty or leaking

Remedy: Clean the check valves or exchange if necessary

3. Very low flow or no flow

Cause: Supply pressure inadequate

Remedy: Check hot and cold feeds. If a pump has been installed, please check to see if the pump is working. (the valve will shut down if either the cold or hot water supply fails)

4. Water will not run hot enough when first installed

Cause: Wrong maximum temperature setting

Remedy: Adjust the maximum temperature, refer to "Temperature Setting" procedure.

Cleaning

We do NOT recommend you use any household cleaners to clean the product. Because these cleaners change substance or formula too frequently. So product should be always cleaned only with soapy water and rinsing with clean water and drying with soft cloth.