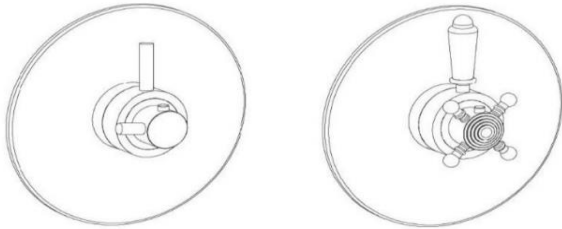


## INSTALLATION INSTRUCTIONS



### IMPORTANT

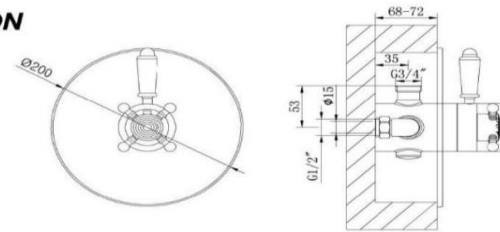
1. We recommend that this product is installed by a qualified professional contractor, such as a plumber who is certified by NVQ (National Vocational Qualification) or SNVQ (Scottish National Vocational Qualification) Level 3
2. Please check this product immediately to ensure that it has not been damaged 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.
3. All the valves should be supplied with hot and cold water at balanced pressure. If not, then the mixing function will not work correctly. It is necessary to fit non-return valves on both hot and cold feed pipes.
4. Please flush the water system to ensure that no metal swarf, solder, and other impurities can enter the valves.
5. Turn off water supply before commencing work, this should be done at the isolating valves of inlet feeds if fitted or main stopcock.
6. Please read these instructions carefully and keep it for future reference.

### WORKING PRESSURE AND TEMPERATURE

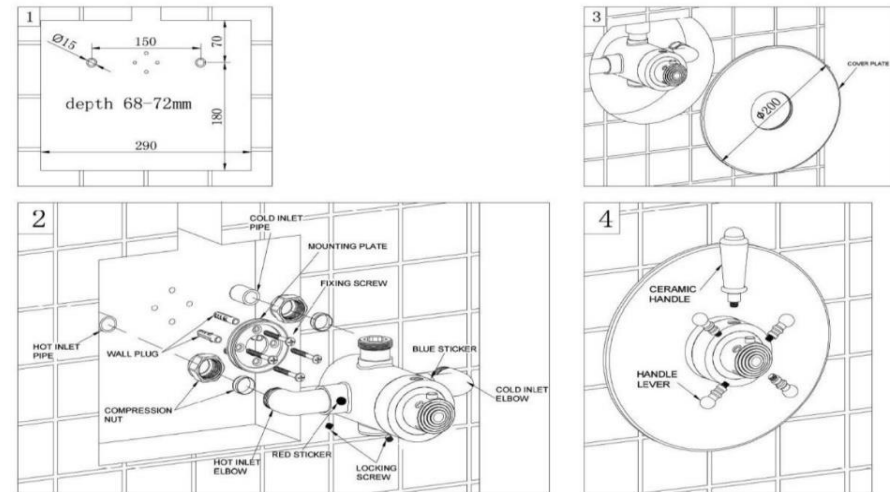
The valve is suitable for both high and low pressure installation. To ensure that the valve works well under low water pressure, the cold water storage tank must be at least 2 meters above the installed position.

Maximum Static Pressure: 10 Bar  
 Flow Pressure, Hot & Cold : 0.1-5 Bar  
 Hot Supply Temperature: 55-65 °C  
 Cold Supply Temperature: 5-25 °C

### DIMENSION



### INSTALLATION

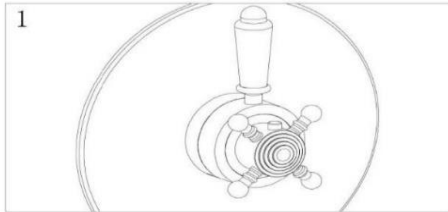


The valve should be installed in accordance with the water bye-laws. For further details refer to the latest copy of Water Bye-laws guide or your local water authority.

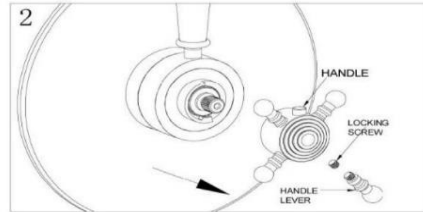
1. Make a drill in the wall at proper dimensions. (See Fig.1)
2. Prepare the water supply pipes (hot on the left and cold on the right) at the identified height with a width of 150mm centers. (See Fig. 2)
3. Make the ends of pipes 20-25mm out from the face of wall.
4. Remove the compression nuts and the plates from the inlet elbows of valve..
5. Put the mounting plate onto the wall and mark the position of 4 holes.
6. Drill 4X8mm holes on the wall to a depth of 45mm and insert wall plugs.
7. Place the wallplugs into the holes and fixing screws into the wallplugs, then fix the valve body to the mounting plate with fixing screws.
8. Tighten the two nuts on both inlets. After installation, turn on the valve to check for leaks.
9. Fix the cover plate properly on the wall with glass cement (See Fig. 3) to cover the hole. (The hole should be fixed properly so that it is smaller than cover plate)
10. Finally fix the ceramic hand and hand lever.

## TEMPERATURE SETTING

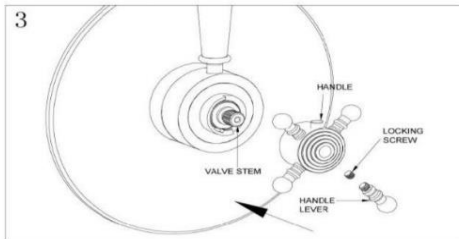
The temperature control handles on this product are factory set and should require no adjustment. However, if for any reason the handles and/or the cartridge is removed, it is important the following procedures are followed.



- 1) Turn flow control handle to maximum flow position, and temperature control handle clockwise until it contacts the internal limit stop.
- 2) Allow the water temperature to stabilize around 3 minutes and check the temperature by thermometer.
- 3) Proceed if temperature is not 38°C.



- 1) Unscrew the handle lever.
- 2) Unscrew the locking screw.
- 3) Take out the handle.



- 1) Turn on the valve.
- 2) Temperature is up when valve stem is turned clockwise, temperature is down when valve stem is turned anti-clockwise.
- 3) When temperature is correctly set, fix the handle back to the valve as show above.
- 4) Tighten the handle lever with locking screw.

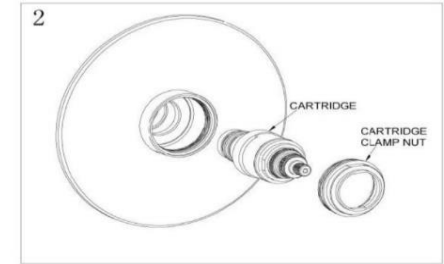
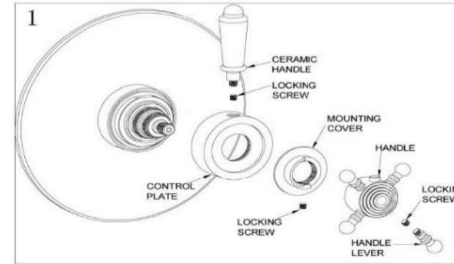
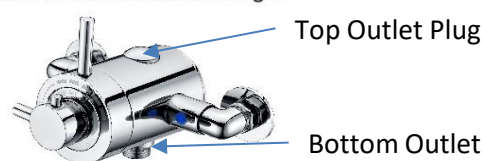
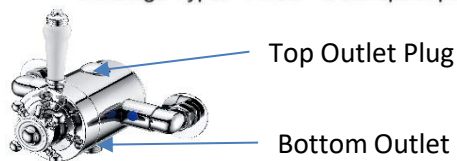
## MAINTENANCE (THERMOSTATIC CARTRIDGE)

\* After a long time usage of thermostatic valve, there will be some waste or debris from the water pipe on and around the 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 chrome parts before any maintenance takes place.

- 1) Take off the handle, unscrew the locking screw to take out the mounting cover. Unscrew the ceramic handle to take off the control plate. (See Fig. 1)
- 2) Untighten the cartridge clamp nut to take out the cartridge. (See Fig. 2)
- 3) Wash the cartridge with clean running water, dry and lightly grease the seals (only use silicone grease).
- 4) Replace the cartridge and make sure it back to the primary position.

\* Cartridge Type: " H105 " is the spare part number of thermostatic cartridge.



## 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: Non-return valves dirty or leaking  
Remedy: Clean the non-return 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.

## Outlet Change(changing bottom outlet to a top outlet, or G1/2 to G3/4 outlet):

The valve is received with the outlet at the bottom for hose connection. If you requires an outlet at the top, you need to change the outlet pision following the steps below:

1. Unsew bottom outlet from valve, using a spanner.
2. Unsew the top outlet plug.
3. Fit the plug into the hole at the bottom of the valve and tighten it.
4. Insert the outlet (G1/2 or G3/4) into the top of the Valve and tighten it.
5. Fit riser pipe or Rails and check for leaks.

(Refer to the pictures left)

Warning: Do NOT simply trun the valve over to change the outlet position!