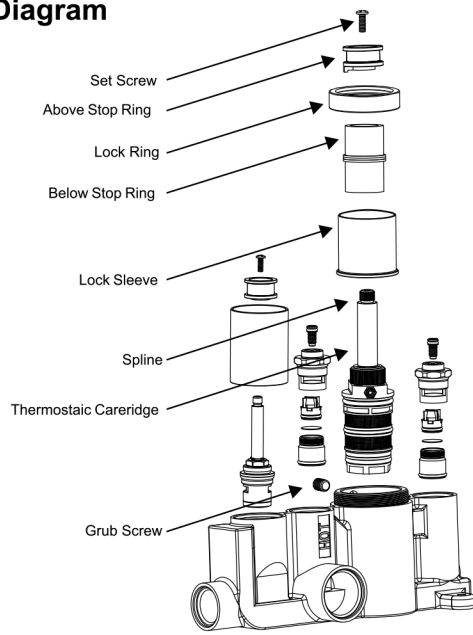
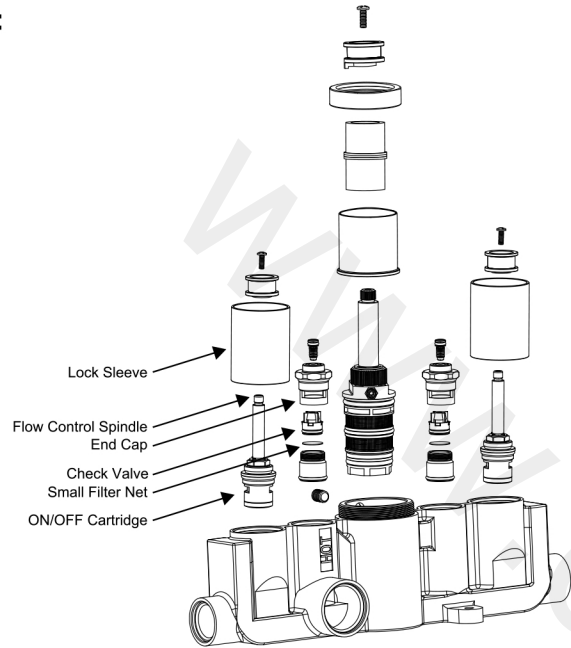


VII. Exploded Diagram

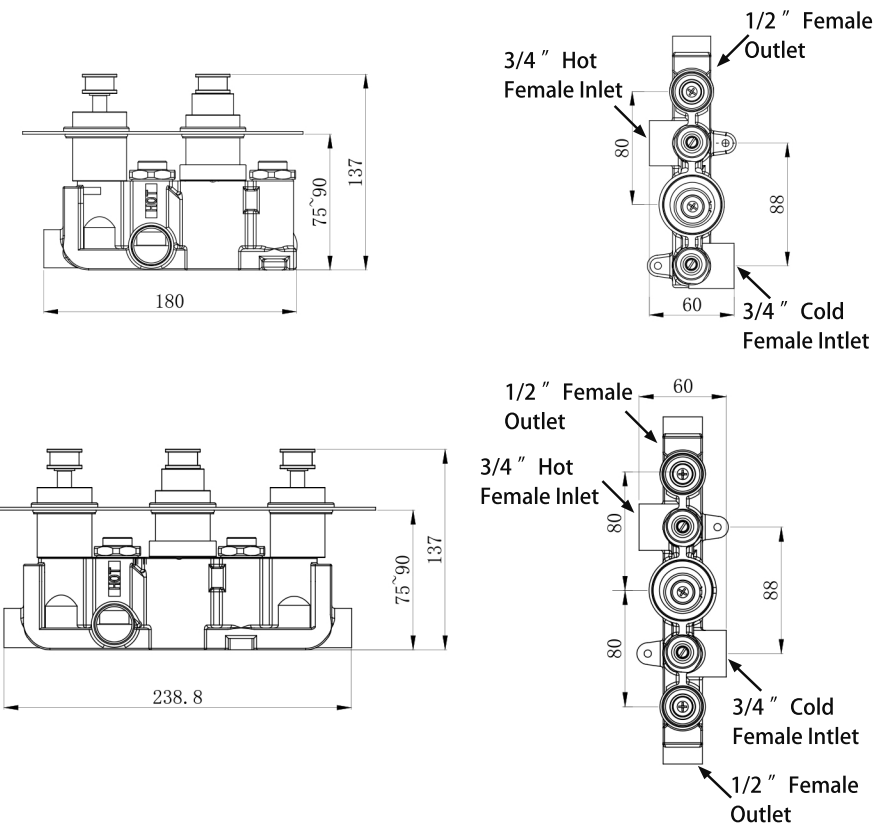
Twin Valve:



Triple Valve:



Twin & Triple Concealed Thermostatic Shower Valve



Installation & Maintenance Instructions

Please follow them carefully and leave this manual with end user

I. Operation Notice

1. The work condition for use of this product is cold water 4-29°C, hot water 55-85°C and water pressure 0.5bar - 5bar. To avoid the differential pressure between hot water and cold water, the thermostatic cartridge is preferably under the condition of water pressure 3 bar, hot water 65°C and cold water 15°C.
2. Make sure the shower valve is off when no water comes out of it (especially when nobody resides in the house or during the period of decoration or the absence of water).
3. When the room temperature drops below 0°C, take necessary measures (such measure as keeping shower valve warm and closing windows) to prevent the shower valve from being frozen or even broken (especially when windows kept open for air ventilation while nobody resides in).
4. Do not disassemble the valve unless you are an expert.

II. Installation

1. Determine the fixing position for the valve and make a recess in the wall to house the valve. The depth of the recess should be from 75mm to 90mm below the finished wall surface to fit the cover plate correctly.
2. Insert the valve into the wall recess, then mark fixing points with the mounting lugs that are cast on the valve body. Pull the valve out and drill suitable length holes at the marked positions. Use supplied plugs and screws to secure the valve.
3. Now the shower valve body is securely mounted onto the wall. Prior to installation and connecting, make sure the pipes are thoroughly flushed to remove any debris etc. Attention: Failure to do this will impair the flow of water.
4. The plumbing connections should then be made to the HOT & COLD water inlets which are clearly marked. Hot water inlet to be connected with hot supply on the left of the valve, cold water inlet to be connected with cold supply on the right of the valve. Make sure that they are correctly connected, otherwise, the thermostatic cartridge will lose its function of controlling temperature and may cause scald.
5. Make the plumbing connection to the water outlet. This will take the water to the chosen auxiliary product (shower kit) you have selected to run with this shower.
6. The plumbing connections on the inlets are 3/4" BSP female thread & on the outlets are 1/2" BSP female thread. It is recommended to apply PTFE tape to all thread connections.
7. Then turn on the water supply. Check that there is no leakage.
8. Slide the plate into position over the lock sleeves, and fit up against the finished wall surface.
9. Fit the chrome control handles. Make sure the stop lug of the below stop ring is positioning at 12 o'clock. And the markings on the stop lug of below stop ring and the above stop ring should be in line. Remove the decorative caps/handle lever, then place the handle on the above stop ring, hold the handle firmly in position and tighten the set screw with supplied Allen key. Be careful not to turn the above stop ring. Refit the decorative caps/handle lever. The thermostatic control handle is clearly marked with H & C. For twin valves, the temperature control handle is in the bottom. For triple valves, it is in the centre.

III. Maintenance

If the water flow is less than normal and temperature control is imprecise after a period of usage. It is often due to the poor water which blocks the small filter net. The cleaning method At first, turn off the main valve. Remove the control handles and cover plate. Then unscrew the end caps on the hot/cold water inlet sides of valve body with an allen key, Now you can clean the small filter net with brush and vinegar. After completion, rinse it and reassemble all the parts back. At last, check the water flow and temperature control.

IV. Temperature Adjustment

1. The maximum temperature is factory set as 42°C. If you think it is not hot enough, you can adjust the above stop ring position to get a higher maximum temperature.
2. Remove the handle on the thermostatic control. The spline and above stop ring will be shown.
3. Remove the above stop ring by loosening the set screw. Turn the shower flow control fully on.
4. Make sure the stop lug on the below stop ring is positioning at 12 o'clock. Be careful not to turn the spline. Turn the above stop ring clockwise, place it back on to the spline. The maximum temperature will be higher. Allow water temperature to stabilise and check temperature. The maximum temperature must never exceed 46°C.
5. Achieve the temperature you want, turn the flow control off. And refit the handle.

V. Aftercare

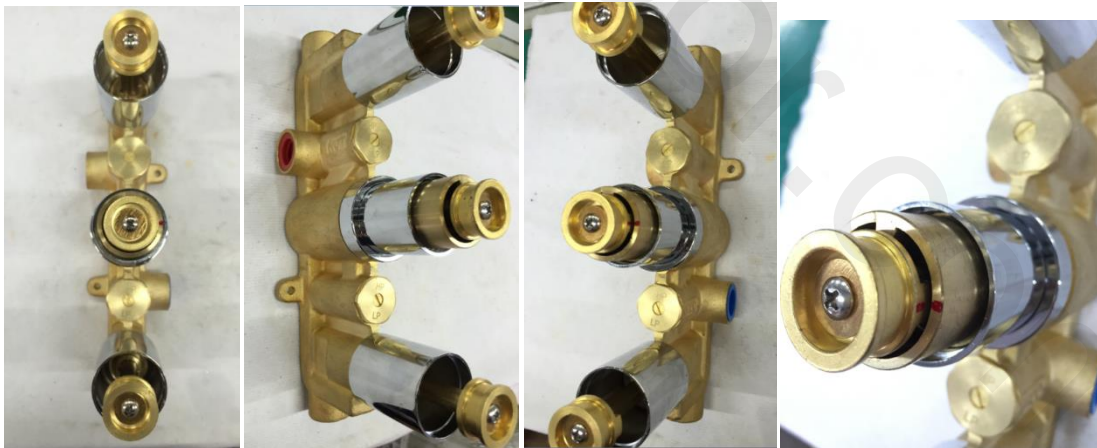
Always clean the surface of shower valve to keep it bright. Attention: please do not use inappropriate tools such as sharp brushes, rough sponges, scouring pads or corrosive detergent to clean the shower valve. Please clean the shower valve by wet cloth and soapy water after each time of usage. Then rinse the soap out with clean water and dry with a soft cotton cloth.

VI. Faulty Diagnosis

FAULT	POSSIBLE CAUSE
Shower only runs hot or cold after installation	1. Hot and cold supplies have been plumbed the wrong way around. 2. Faulty thermostat.
Shower does not run hot enough	1. Check hot water supply temperature. 2. Maximum temperature needs adjusting, see temperature adjustment. 3. Blockage in the hot supply.
Hot water in cold supply or vice versa	1. Check and clean non-return valves
Low or no flow	1. Possible blockage in the system. 2. Operating conditions are incorrect. 3. Valve shut off as been activated due to a pressure drop in either the cold or hot supplies.
Leaking when in the off position	1. Debris in flow control cartridge. 2. Faulty flow control cartridge.
Fluctuating flow	1. Dynamic inlet pressure are not balanced. 2. Faulty thermostatic cartridge.

Replace Thermostatic Cartridge

1. Triple concealed shower valve—The factory setting is as below
images, the left inlet with hot marking and red end cap is for hot water supply, the right inlet with cold marking and blue end cap is for cold water supply. There are three round rings, the top and bottom ones are for ON/OFF control, we always turn them fully clockwise to make sure the valve is close. Then you install the handles on the top and bottom rings and turn the handles anti-clockwise to open the valve. The middle ring is for temperature control. You can see that there are red markings on the above ring and the below ring, the red markings should be in line and the stop lug of the below ring is positioning at 12 o'clock. When you install the handle, you can not turn the ring.



2. Remove the above stop ring, lock ring, below stop ring and white washer one by one. Then use a tool to remove the thermostatic cartridge.



3. You can see that there are red markings on the brass bar and plastic body. We test the thermostatic cartridge 100% before installation. When the red markings are in line, after you install the thermostatic cartridge into the valve, the factory setting is 38 degree. The cartridge have a screw, when you install the cartridge into the valve, the screw should meet the whole of valve body as the image.



4. Place back the white washer, lock ring and below stop ring one by one. And make sure the stop lug of the below stop ring is positioning at 12 o'clock. Then screw the above stop ring into the end of the cartridge. Make sure the red markings on the above stop ring and below stop ring are in line. Now the temperature should be about 38 degree. Then you can use a thermometer to check when you turn the above ring fully anti-clockwise if the maximum temperature is about 42 degree. If you think the maximum temperature is not high enough, when you place back the above stop ring, you can let the above stop lug far away the below stop lug, so the temperature adjustment range will be widened and the maximum temperature can be higher.

