



# Thermostatic Shower Valve General Installation Instruction

## Deluxe Shower Panel

Flex Head - White Glass	TMV2 Thermostatic .....	93007000
Flex Head - White Glass	TMV2 Thermostatic - Eco Handset ..	93008000
Fixed Head - White Glass	TMV2 Thermostatic .....	93009000
Fixed Head - White Glass	TMV2 Thermostatic - Eco Handset ..	93010000



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### IMPORTANT

We highly recommend this instruction is read carefully before you start Installation. Please retain it after installation for future reference and maintenance.

First, open the box and check all items are present as per this instruction.

Also make sure any other items that you need are available too e.g. compression fittings, wrench, PTFE tape.

Installation must comply with Local/ National supply regulations/ Authority

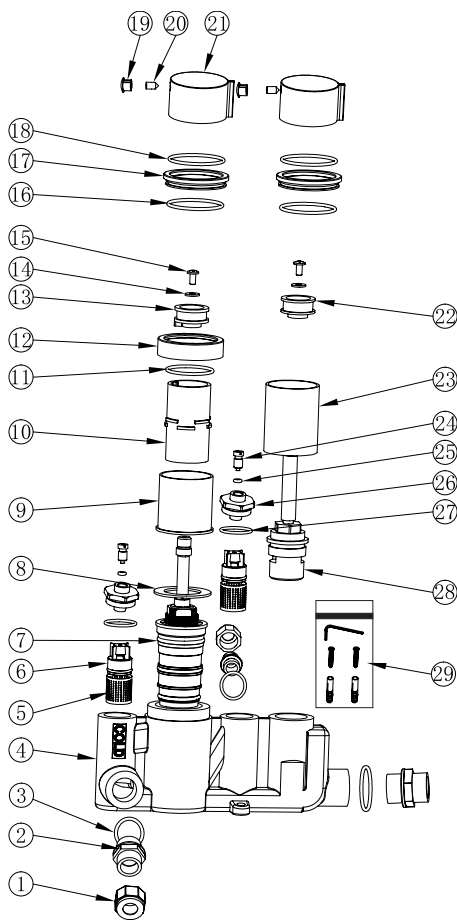
and bye-laws inc. Building and Plumbing regulations.

Handles, Glass Panels & Concealing Plates may vary, depending on model chosen.

### TOOLS YOU MIGHT NEED

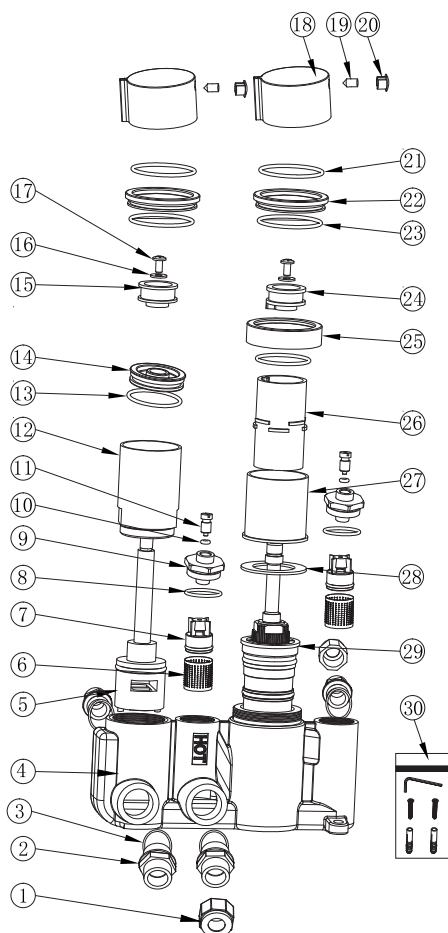
			
			

## ASSEMBLY & PARTS LIST - 93007000/ 93009000



No.	Name	Qty
1	Nut	2
2	Connector	3
3	O-ring Ø18x2.35	3
4	Valve body	1
5	Filter	2
6	Check valve	2
7	Thermostatic cartridge	1
8	Nylon gasket	1
9	Thermostatic collar	1
10	Thermostatic control ring	1
11	O-ring Ø28x2	1
12	Thermostatic gland	1
13	Thermostatic adapter	1
14	D12 flat gasket	2
15	M4x10 cross slot screw	2
16	O-ring Ø44x2	2
17	Trim ring	2
18	O-ring Ø37x1.5	2
19	Screw cap	2
20	Inner hexagonal screw	2
21	Handle	2
22	Flow adapter	1
23	Flow collar	1
24	Screw on check valve gland	2
25	O-ring Ø23.35x1.78	2
26	Check valve gland	2
27	O-ring Ø19x2	2
28	Flow cartridge	1
29	Fittings bag	1

## ASSEMBLY & PARTS LIST - 93008000/ 93010000



No.	Name	Qty
1	Nut	2
2	Connector	4
3	O-ring Ø18x2.35	4
4	Valve body	1
5	Diverter cartridge	1
6	Filter	2
7	Check valve	2
8	O-ring Ø19x2	2
9	Check valve gland	2
10	O-ring Ø23.35x1.78	2
11	Screw on check valve gland	2
12	Flow collar	1
13	O-ring Ø28x2	2
14	Flow cartridge fixer	1
15	Flow adapter	1
16	D12 flat gasket	2
17	M4x10 cross slot screw	2
18	Handle	2
19	Inner hexagonal screw	2
20	Screw cap	2
21	O-ring Ø37x1.5	2
22	Trim ring	2
23	O-ring Ø44x2	2
24	Thermostatic adapter	1
25	Thermostatic gland	1
26	Thermostatic control ring	1
27	Thermostatic collar	1
28	Nylon gasket	1
29	Thermostatic cartridge	1
30	Fittings bag	1

## OPERATING SPECIFICATIONS

This valve can function as a Type 2 valve if subject to the following conditions:

Maximum Static Pressure: 10 Bar

Dynamic Pressure: 0.5 Bar – 5 Bar

Hot Supply Temperature: 55°C - 65°C

Cold Supply Temperature: ≤25°C

If the valve is made to perform outside of these conditions, then it cannot be guaranteed to function as a Type 2 valve. The designation of use for this mixer valve is High Pressure Shower (HP-S). If using a gravity-fed system for the water supply then the pressure should be verified before installation to ensure the pressure of the supply meets these conditions. The check valve gland inside the mixer valve will prevent any backflow.

Prior to installation, make sure that isolation valves are installed in both the hot and cold water supplies. The isolation valves should be full bore and must be completely open when the shelf mixer valve is operating. The water system must also be flushed out before installation to clear any debris. Y strainers should be installed to prevent debris getting into the water system. These Y strainers should be positioned in between the shelf mixer valve and the isolation valve.

When conducting maintenance, make sure to inspect all parts. Replace any parts if necessary. The frequency of maintenance will depend on the water quality and usage of the product however checks on the mixer valve should be conducted at least annually to ensure safe performance. Please note that residual flow is normal as long as the water is no more than 2°C hotter than the maximum temperature of the mixed water. The residual flow should also be no more than 120ml per minute. The temperature should be measured at a normal flow rate with the temperature sensor being fully submerged.

## GENERAL INSTALLATION

This is a mixing system and hot and cold supplies must be reasonably balanced for proper flow (outlet). Prior to making the inlet connections; please ensure all pipes are properly and thoroughly flushed to clear any debris etc.

You should satisfy yourself that this is clean. Failure to do so may result in a low flow rate from mixing device.

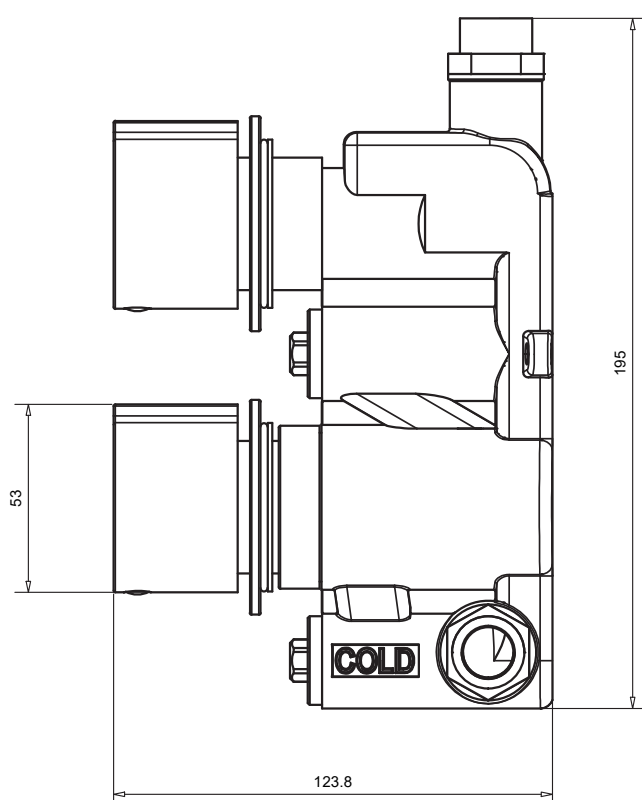
We strongly recommend fitting of isolating valves to the inlet pipes to assist in future maintenance of the valve.

Please take great care when installing this valve not to damage its surface.

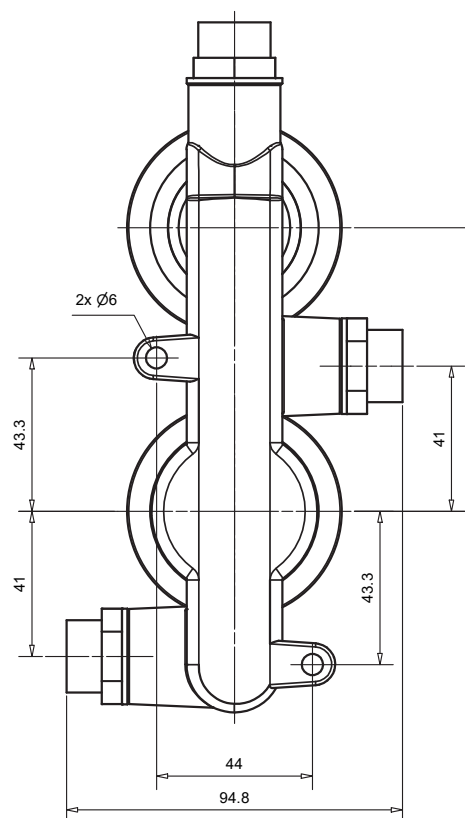
Use a reducer to the inlet feeds if water pressure is above 5 bar.

## DIMENSIONS - 93007000/ 93009000

View From Side

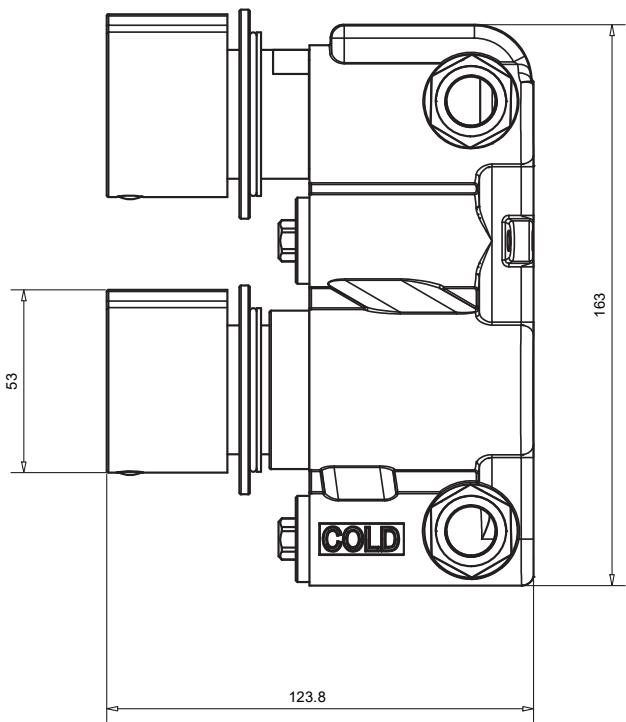


View From Back

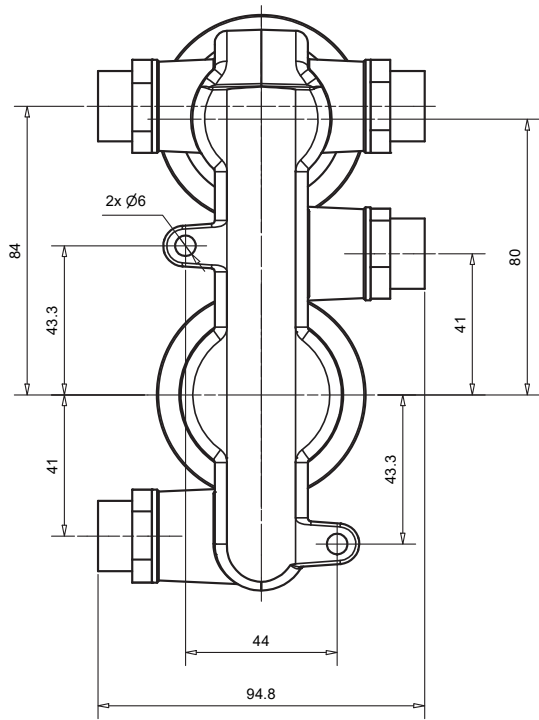


DIMENSIONS - 93008000/ 93010000

View From Side



View From Back

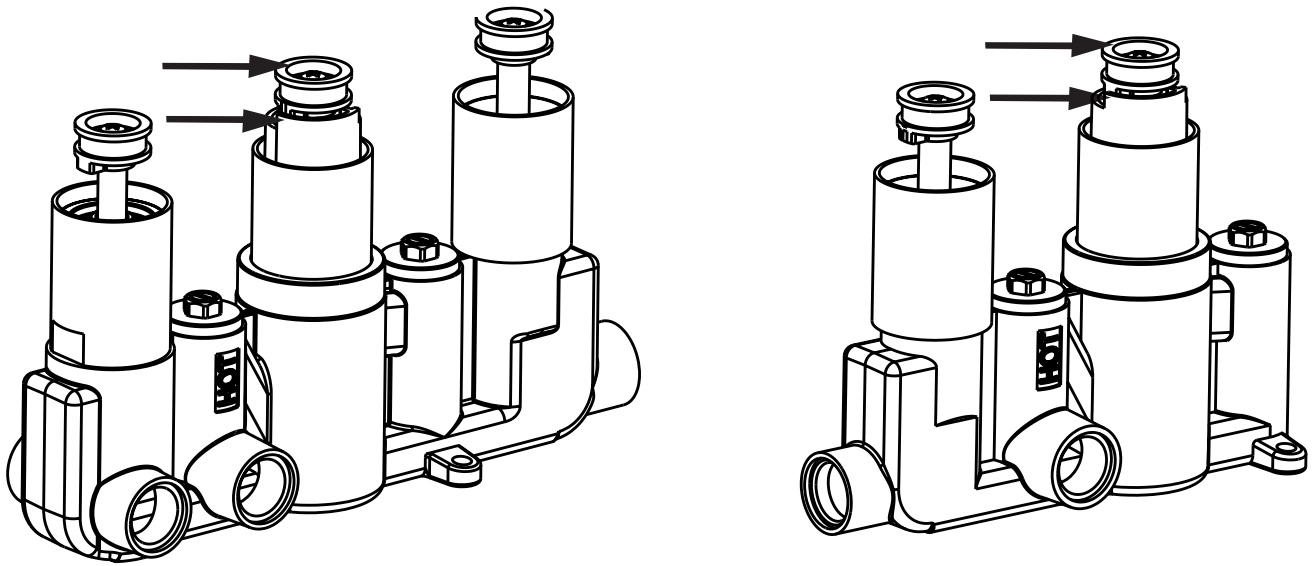


## TEMPERATURE RESETTING

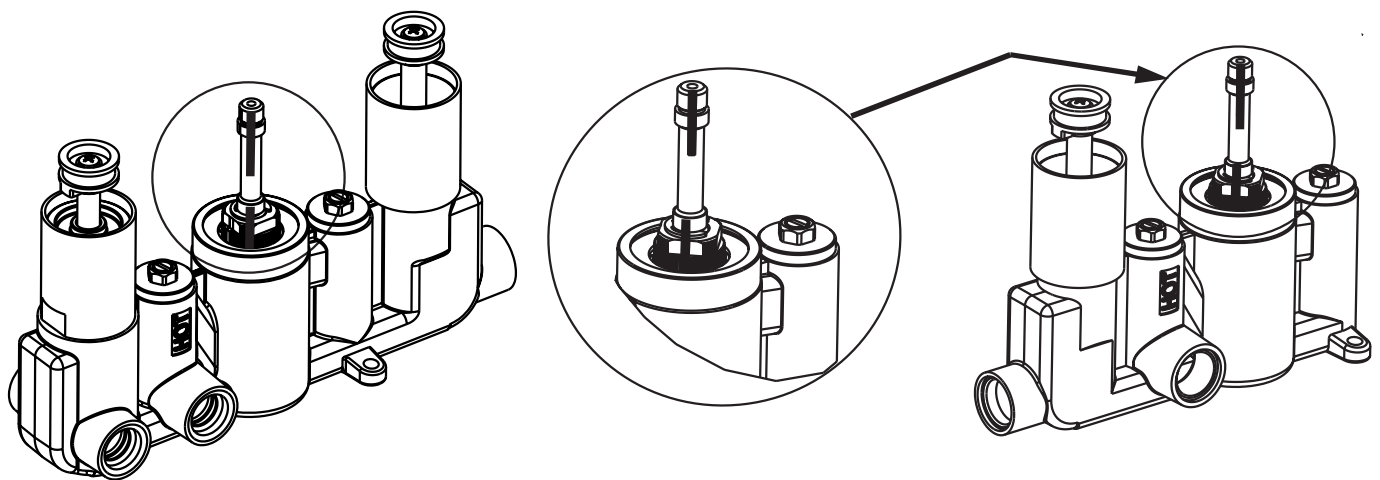
The default temperature should be calibrated to the water system of the residence upon commissioning. The outlet temperature should not exceed 46°C. Please note that 37°C - 37.5°C is a comfortable temperature for children to bath in according to the British Burns Association.

If your installations are significantly different then the water temperature may vary from setting.

If the difference is too much then we recommend you to calibrate the valve to suit requirements of your installation as follows:-

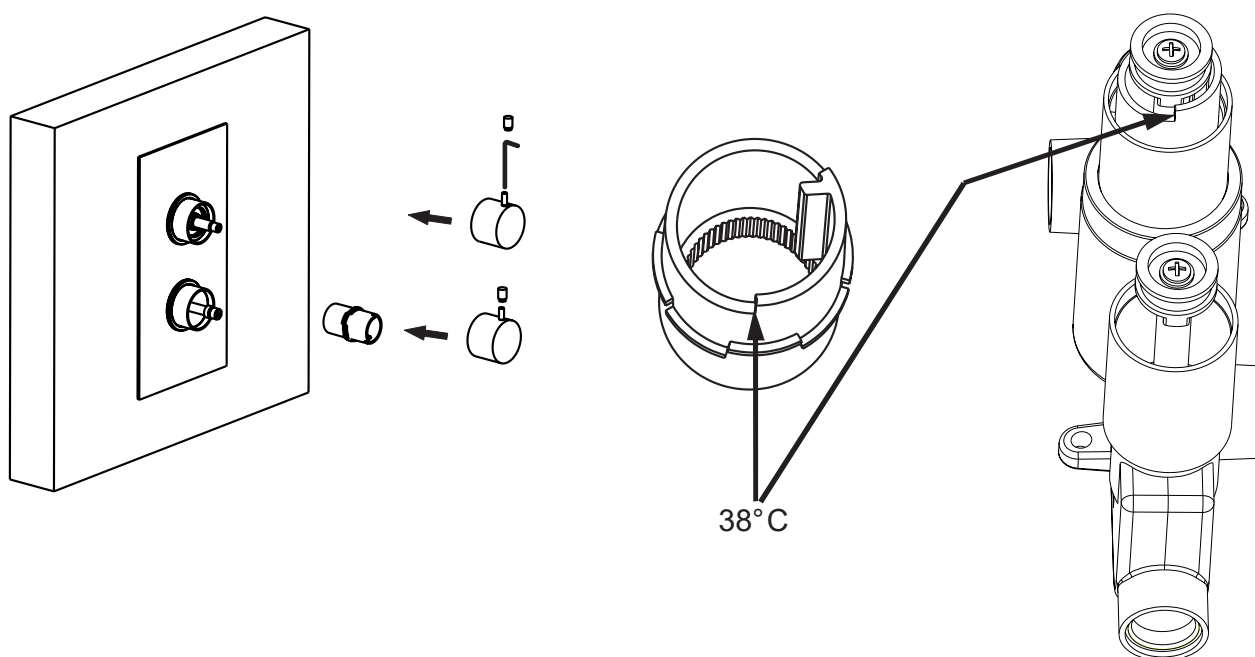


1.Remove the screw, handle adaptor and temperature control ring from thermostatic cartridge (on a dual valve this is the bottom cartridge& on a triple valve this is the middle cartridge)

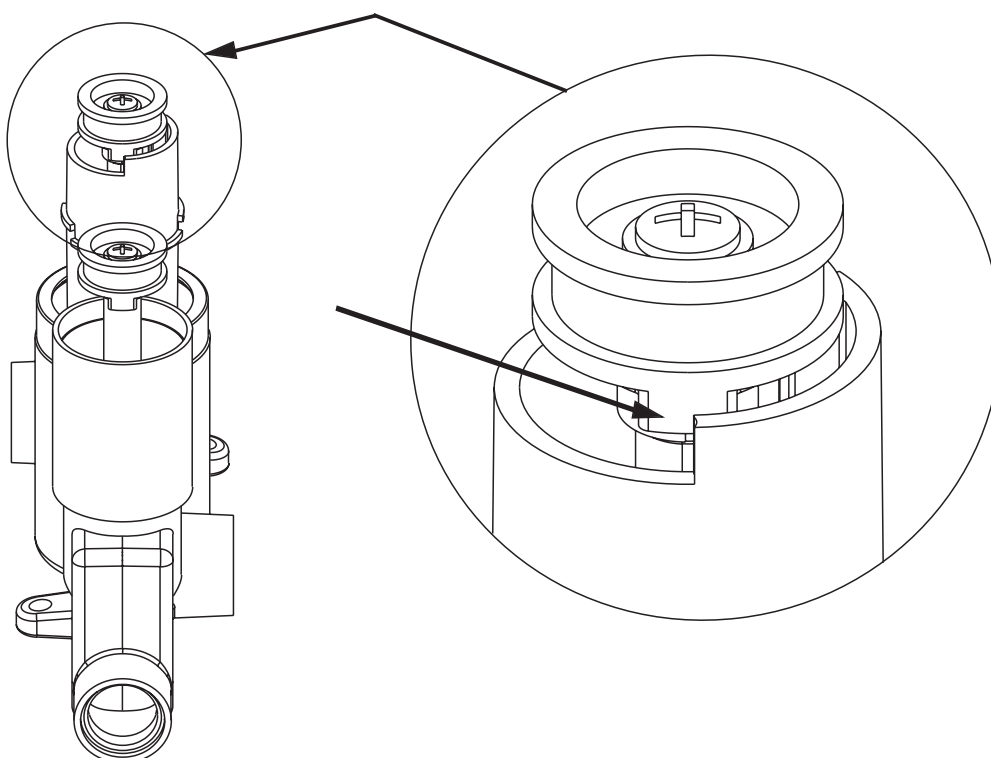


2.There are two red line on the thermostatic cartridge, keep them in one line, and then turn the spindle anti-clockwise when the water tests colder (turn the spindle clockwise when the water tests hotter), and measure the water temperature on the outlet by thermometer, adjust to the required temperature.

## TEMPERATURE RESETTING



3.Re-fit the temperature control ring back point to 12 o'clock position.



4.Re-fit the handle adaptor and make sure the protrusion at the bottom points to 12 o'clock position as well, and secure the screw and handles.



## MAINTENANCE

As water quality is different all over, the filters of cartridges and other parts housed inside the valve may become dirty / clogged which will result in reduced flow and inefficient valve operation.

To clean, please remove the thermostatic cartridge from the housing to clean its filters.

1. Shut off the water supply with isolating valves on both hot/cold inlets.
2. Unscrew the handles by unscrewing the holding screws. Pull out the handle, adaptor, temperature control ring
3. Now remove the cartridge with a wrench or similar tool.
4. Rinse the filters to remove dirt thoroughly, soak them in a de scaling agent or even vinegar. Do it as thoroughly as possible.
5. The housing of the thermostatic cartridge must also be cleaned thoroughly with a wet cloth. The O rings of the cartridge should be greased too.
6. Now reassemble the cartridge ensuring temperature control ring and handle adaptor point to 12 o'clock position as per above step 3 & 4 installation section.
7. Finally, make sure everything is secure and tight. Water supply can now be turned on from the isolating valves.
8. Ensure you are happy with it at this stage, check water temperature and if not ok then calibrate as explained above.

## CLEANING

Due care is required to maintain the valve and care must be taken whilst cleaning for brand new refreshing looks at all times.

Cleaning of this item should only be done by using a soft cloth and clean water. Do not use any chemical cleaning products or abrasive items.

If above instructions are not adhered to, this will invalidate your guarantees.

## TROUBLE SHOOTING

If you followed the instructions carefully and your valve still does not work properly, take these corrective steps.		
Problem:	Possible Cause:	Action:
Outlet temperature too cold	<ul style="list-style-type: none"> <li>No hot water reaching valve</li> <li>Blocked filter</li> <li>If the fault has been present since the valve was installed it is possible that the inlets were installed incorrectly</li> <li>The water supply will be colder in winter months due to outside temperature</li> </ul>	<ul style="list-style-type: none"> <li>Check the water supply for any blockages</li> <li>Remove and clean the filters</li> <li>Check installation-Hot on the left / cold on the right</li> <li>It may be necessary to adjust the hot supply. i.e. increase the hot water temperature setting on boiler</li> </ul>
Outlet temperature too hot	<ul style="list-style-type: none"> <li>No cold water reaching valve</li> <li>Blocked filter</li> <li>If the fault has been present since the valve was installed it is possible that the inlets were installed incorrectly</li> <li>The water supply will be hotter in summer months due to outside temperature</li> </ul>	<ul style="list-style-type: none"> <li>Check the water supply for any blockages</li> <li>Remove and clean the filters</li> <li>Check installation-Hot on the left / cold on the right</li> <li>It may be necessary to adjust the hot supply. i.e. decrease the hot water temperature setting on boiler</li> </ul>
Only hot or cold water from valve outlet	<ul style="list-style-type: none"> <li>It's possible that the inlets have been installed the wrong way around</li> <li>If only cold water is coming out of the mixer it is possible there is a fault with the cartridge.</li> <li>Blocked filter</li> </ul>	<ul style="list-style-type: none"> <li>Check that the inlets are installed correctly-Hot on the left/cold on the right</li> <li>Remove and check the condition of the thermostatic cartridge.</li> <li>Remove and clean the filters</li> </ul>

## TROUBLESHOOTING

Problem:	Possible Cause:	Action:
Cannot Adjust temperature	<ul style="list-style-type: none"> <li>It's possible that the cartridge is sticking due to limescale build up</li> <li>Over ride temperature manually</li> </ul>	<ul style="list-style-type: none"> <li>Remove the thermostatic cartridge and service.</li> <li>Remove the temperature handle by removing the end cap and centre retaining screw, turn the water flow on fully and turn the spindle anti-clockwise to increase the temperature. Turn the spindle clockwise to decrease the temperature.</li> </ul>
Poor flow rate	<ul style="list-style-type: none"> <li>Insufficient water pressure</li> <li>Filters partially blocked</li> <li>Flow valve not fully opening</li> </ul>	<ul style="list-style-type: none"> <li>The required minimum water pressure is 0.5bar(5Mpa )</li> <li>Remove filter and clean</li> <li>Remove and check the condition of the flow valve</li> </ul>
Water leaking from shower head when the valve is turned off/closed	<ul style="list-style-type: none"> <li>This can be normal for a short period time after the shower has been used.</li> <li>Check that the pressures do not exceed of that stated for the product.</li> <li>Flow valve leaking</li> </ul>	<ul style="list-style-type: none"> <li>If pressures are too high adjust as necessary, refer to technical data</li> <li>Remove and check the condition of the flow valve</li> </ul>
Water leaking from shower valve /controls	<ul style="list-style-type: none"> <li>Leaking from flow valve.</li> <li>Leaking from thermostatic cartridge.</li> <li>Check that the pressures do not exceed that stated for the product</li> </ul>	<ul style="list-style-type: none"> <li>Remove and check the condition of the flow valve.</li> <li>Remove and check the condition of the thermostatic cartridge.</li> <li>Check that the pressures do not exceed that stated.</li> <li>If pressures are too high adjust as necessary. Refer to technical data.</li> </ul>