

## FAULT FINDING CHART

GRAVITY or PUMPED SYSTEM	
FAULT	DIAGNOSIS
"Showering temperature is not hot enough"	<ul style="list-style-type: none"> <li>• Ensure hot water supply is at least 60°C.</li> <li>• Make sure you have equal pressures.</li> <li>• Check for airlocks in pipework.</li> <li>• Ensure there are no inverted 'U's in any of the pipework runs.</li> </ul>
"Water goes cold during shower"	<ul style="list-style-type: none"> <li>• Insufficient hot water storage</li> </ul>
"When shower is set at cold, the showering temperature is too hot"	<ul style="list-style-type: none"> <li>• Hot and cold supply connections have been made in reverse - reconnect correctly</li> </ul>
"Shower temperature is too hot (pumped shower)"	<ul style="list-style-type: none"> <li>• Turn down the flow of hot water from the pump using the in-line isolator valve.</li> </ul>

COMBI or OTHER HIGH PRESSURE SYSTEM	
FAULT	DIAGNOSIS
"Showering temperature is not hot enough"	<ul style="list-style-type: none"> <li>• Incoming mains pressure exceeds 5 Bar - ensure you have fitted a pressure reducing valve in the mains supply pipe.</li> <li>• Ensure hot water supply is at least 60°C.</li> </ul>
"Valve is very noisy when in use"	<ul style="list-style-type: none"> <li>• Incoming mains pressure exceeds 5 Bar - ensure you have fitted a pressure reducing valve in the mains supply pipe immediately after stopcock to premises.</li> </ul>
"The water goes cold whilst showering"	<ul style="list-style-type: none"> <li>• Ensure the boiler is still firing. Adjust the boiler to the hottest output, not the best flow.</li> </ul>
<p>NB Any product guarantees will be invalidated if the internal workings of the valve have been tampered with in anyway.  <b>Please call our HELPLINE if you are having any difficulties.</b></p>	

**If the Fault Finding chart does not remedy the problem, please contact the helpline immediately.  
 Telephone 01282 428337.**

In accordance with our policy of ongoing product development, we reserve the right to change the specification of products and components.

# CONCEALED/EXPOSED TWIN THERMOSTATIC SHOWER VALVE



## OWNER'S GUIDE

Issue one

## INTRODUCTION

This owner's guide shows you how to install, maintain and generally get the most from your twin control thermostatic shower valve.

**WE RECOMMEND INSTALLATION BY A QUALIFIED PLUMBER ONLY**

## TECHNICAL DATA

This shower valve is suitable for use on all common types of plumbing systems including gravity, pumped, fully modulating combination boilers and high pressure unvented systems.

Minimum operating pressure 0.1 Bar

Maximum operating pressure 5 Bar

**Important note:** At static water pressures above 5 Bar, you must install a pressure reducing valve in the mains supply pipe set at 3 Bar static for optimum results.

As a guide to see if your water pressure is too high simply measure how many pints of water you get from your kitchen tap, with the cold side fully turned on. If you exceed 8 pints (or equivalent) in 30 seconds then you require a pressure reducing valve fitting to your incoming mains supply pipe, immediately after the stopcock to premises.

## TEST DATA

These valves have been pressure tested to 15 Bar.

Before proceeding, please note:

1. The valve must be installed in compliance with local water authority byelaws and water supply byelaws.
2. Read all the instruction manual before proceeding.
3. Only begin the installation when you have all the necessary tools ready.
4. Please check that all the components are in the shower valve box.

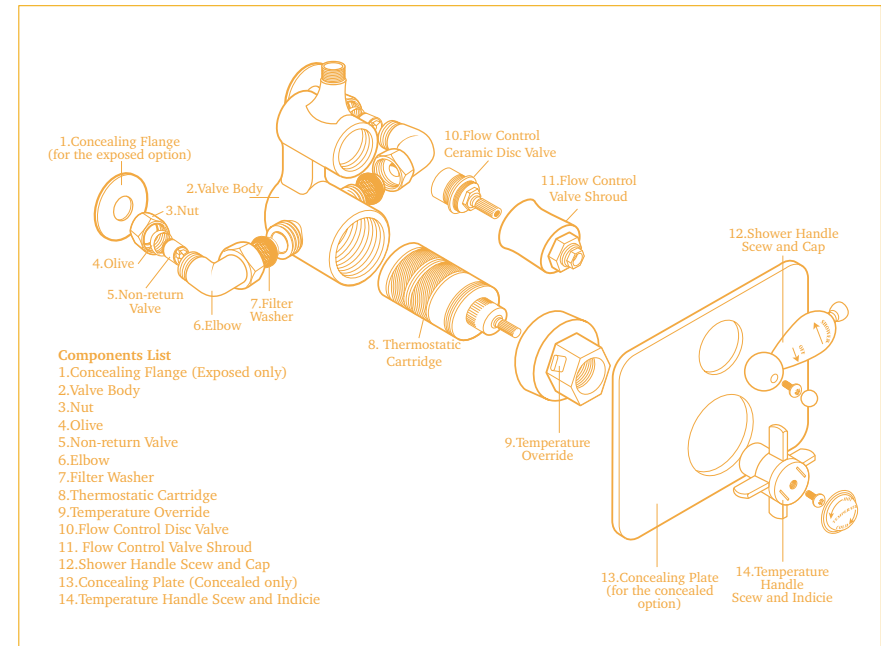
## AFTERCARE

When installing or using tools, extra care must be taken to avoid damaging the finish or the fitting. To maintain the appearance of this fitting, please ensure it is cleaned regularly using a clean soft damp cloth only. Abrasive cleaners or detergents must not be used as they may cause surface deterioration.

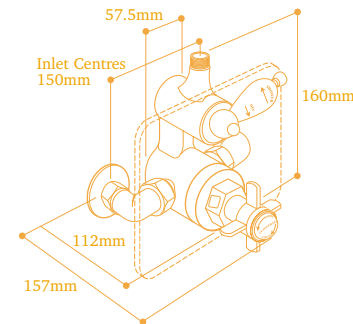
## CONCEALED/EXPOSED TWIN THERMOSTATIC SHOWER VALVES

This shower valve uses a wax thermostatic cartridge to maintain a constant shower temperature. The valve is **Anti Scald** and will automatically shut down the shower if the cold water supply fails. The valve itself is fitted with two **individual** controls, one to select the showering temperature and one to control the water flow. Once the flow control is turned on, the maximum showering temperature that should be achieved will be a factory pre-set 38°C at override position although this may vary with certain installations. You must ensure that the temperature of your **hot water supply is at least 60°C** for your shower to reach the maximum temperature.

## YOUR CONCEALED/EXPOSED TWIN CONTROL THERMOSTATIC SHOWER VALVE KIT COMPRISES:



## VALVE DIMENSIONS



## STEP BY STEP INSTALLATION GUIDE

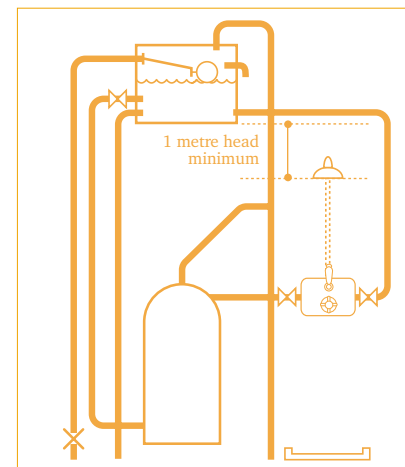
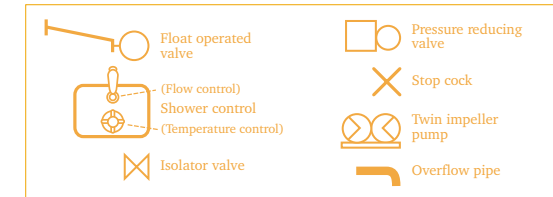
## PRE INSTALLATION NOTES

- Identify and check all the parts (**shower control handles and concealing plate styles may differ depending on model**).
- When positioning the valve, ensure you have sufficient pressure for an acceptable shower.
- The hot water feed must **always** be connected to the lefthand inlet of the shower valve as viewed from the front with the shower outlet at the top, (or righthand inlet with shower outlet at the bottom).
- Both hot and cold supply feeds must have **accessible isolator valves** fitted in-line for servicing purposes. It is important that the isolator valves do not restrict flow when fully opened, therefore Ball type are not recommended. (Valves not supplied).
- Refer to plumbing diagrams for further installation guidelines.
- **Ensure that, after fitting the concealed valve, the area around the valve is left clear and free to allow access for servicing purposes in the future.**

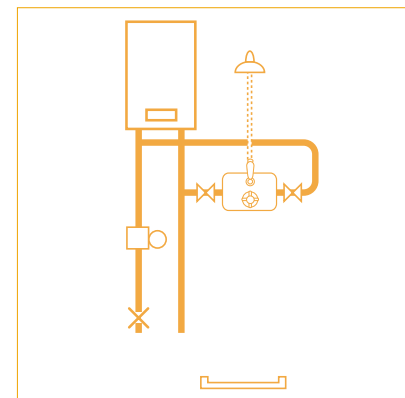
## 1. PRE INSTALLATION NOTES (continued)

## PLUMBING DIAGRAMS

Key to symbols appearing throughout the Pre Installation notes:



N.B. Wherever possible 22mm pipework should be used.

**Gravity Fed Showers**

The shower valve **must** be fed from a cold water storage tank and a hot water cylinder. The use of a Surrey or Essex flange connection to the hot water cylinder will ensure an independent supply of hot water to the valve; this action will stop air being drawn into the system.

NB Keep all pipework runs as short as possible for maximum shower performance.

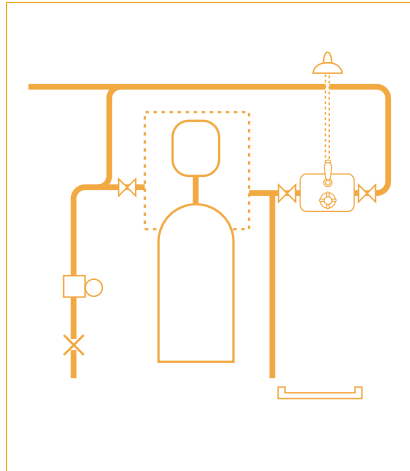
**Gas Heated/Combi-Boiler Showers**

The shower valve **must** be installed with a **modulating** type combi-boiler or multi-point gas heater. This system will produce a constant flow of water within the operating specifications of the appliance. NB The outlet temperature of the system **must** be capable of supplying hot water in excess of 60°C.

A pressure reducing valve may be required to ensure that cold water pressures do not exceed 5 Bar static.

## 1. PRE INSTALLATION NOTES (continued)

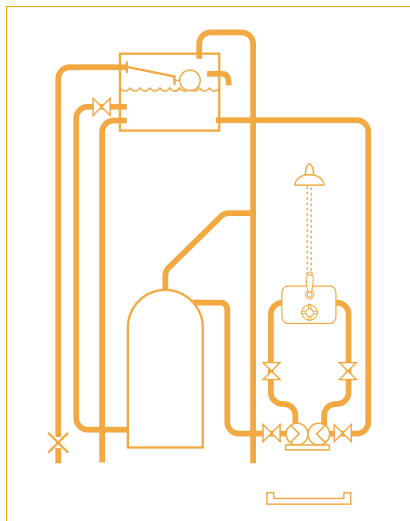
### PLUMBING DIAGRAMS (continued)



#### Unvented Mains Pressure Showers

The shower valve can be used on an unvented mains pressure system. This type of system **must** only be installed by For systems with no cold water take off after the heaters pressure reducing valve, an additional pressure reducing valve must be fitted, and set, at the same pressure as the heaters.

The water supply pressure to the shower valve must be between 1 and 5 Bar.



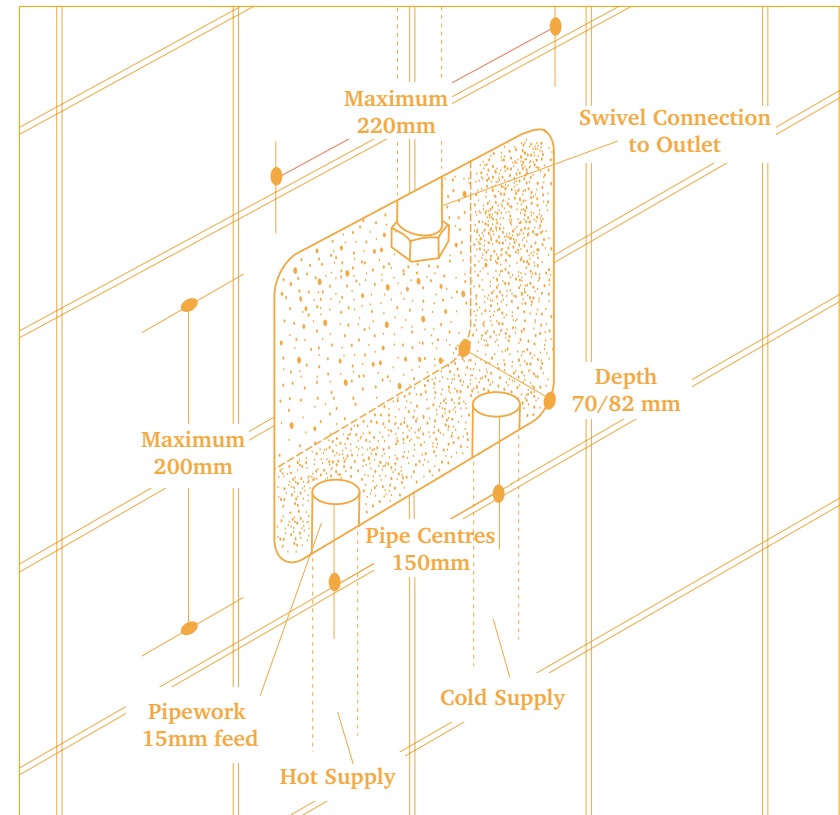
#### Pumped Showers

The shower valve can be used on a gravity fed pumped system. The use of a Surrey or Essex flange connection to the hot water cylinder will ensure an independent supply of hot water to the valve; this action will stop air being drawn into the system.

NB Please follow pump manufacturers' instructions relating to the siting and water feed details to the pump. Keep all pipework runs as short as possible for maximum shower performance.

**N.B. Wherever possible 22mm pipework should be used to the pump. If non-return valves are fitted to the pump you should remove the ones from the valve inlets to avoid cavitation.**

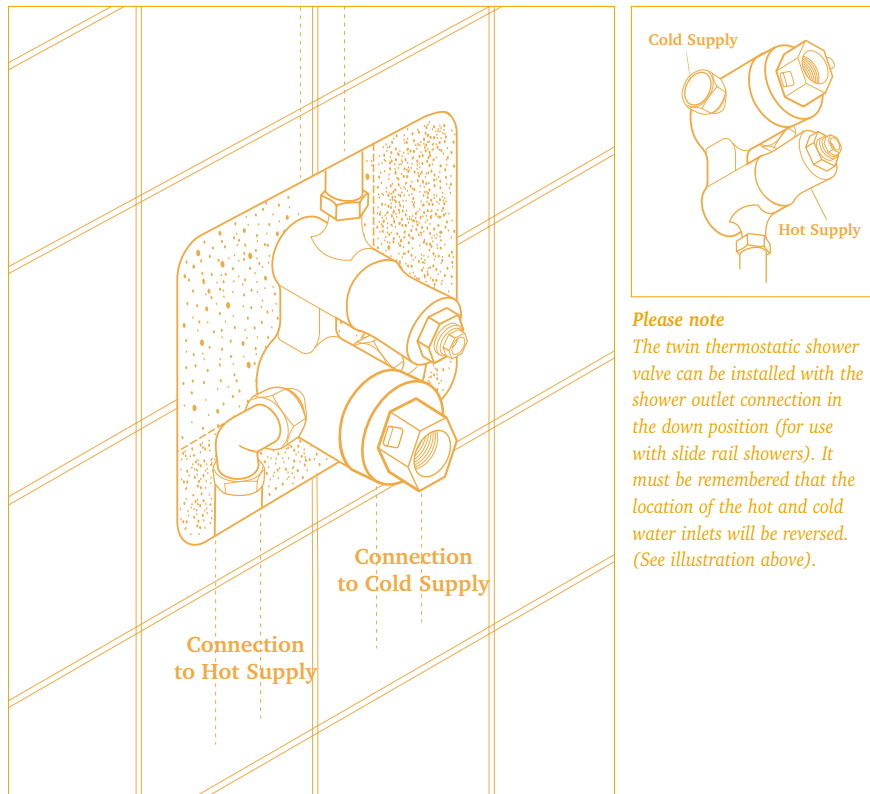
## 1. INSTALLATION INSTRUCTIONS CONCEALED



## 2. SITE PREPARATION

- Make a cavity in the wall to allow the hot and cold water supply and outlet connections to be made.
- Both hot and cold supply feeds must be **flushed through** before connection to the shower valve is made. Re: WRc byelaw 55.

## INSTALLATION INSTRUCTIONS CONCEALED (continued)

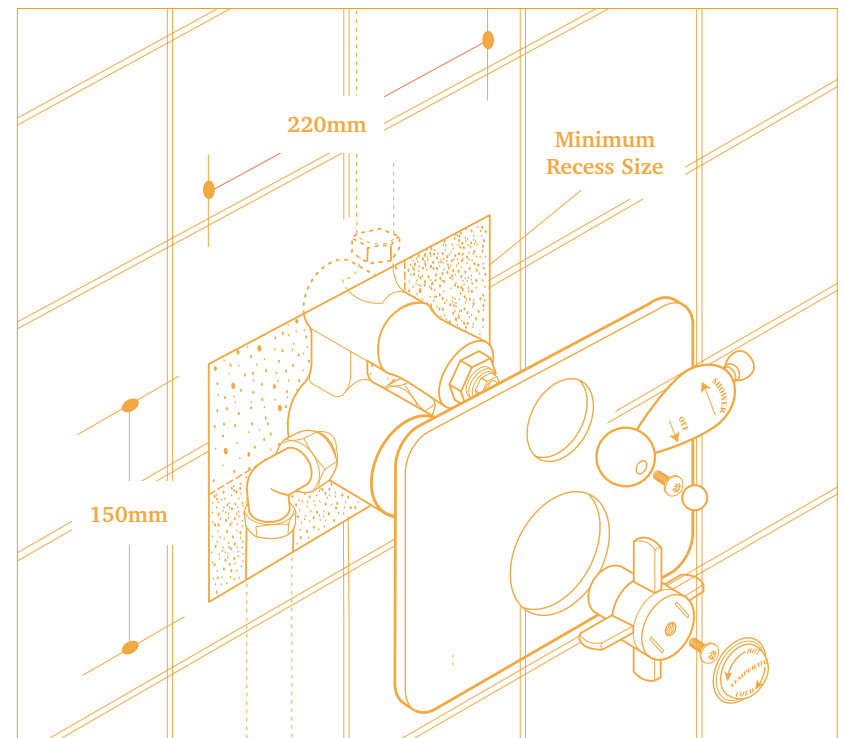
**Please note**

The twin thermostatic shower valve can be installed with the shower outlet connection in the down position (for use with slide rail showers). It must be remembered that the location of the hot and cold water inlets will be reversed. (See illustration above).

**3. CONNECT TO WATER SUPPLIES AND OUTLET**

- Secure the shower thermostatic control main body within the cavity by means of two suitable screw fixings (specialised wall fixings may be required - not supplied).
- Connect the hot and cold water supply feeds to the shower valve.
- Make connection to shower outlet, using a swivel connector (not supplied).
- **CHECK FOR ANY LEAKS.**
- **NB Please ensure that the area around the concealed valve unit is not filled in. Access must be left for servicing purposes.**

## INSTALLATION INSTRUCTIONS CONCEALED (continued)

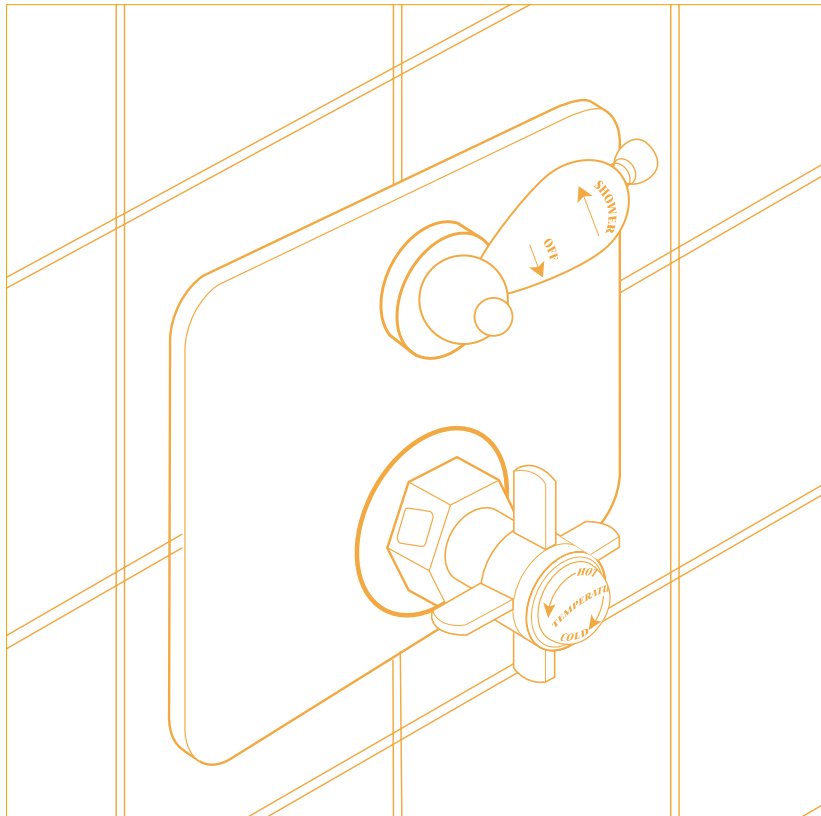
**4. TILE UP/FINISH TO THE MINIMUM RECESS SIZE**

- This will allow for future servicing of the shower valve components.

**5. FIT CONCEALING PLATE (Plate may differ in style depending on model)**

- Remove the lever and 'temperature handle'. Note: before removing, turn 'temperature handle' anti-clockwise until it stops against the preset 38°C 'stop'.
- Locate concealing plate 'grommets' onto the housings and fit concealing plate to valve.
- To create a **waterseal**, use a thin line of suitable sealant between the concealing plate and the wall.

## INSTALLATION INSTRUCTIONS CONCEALED (continued)



### 6. FINAL ASSEMBLY

- Carefully refit 'temperature handle' ensuring that the thermostatic control spindle is not rotated (as this will alter the preset temperature). Note: Ensure that the temperature handle is located against the preset 38°C stop. (**Shower control handles style may differ depending on model**).
- Check the function of the valve. The maximum temperature should be 38°C when set against the override stop; if not, see Temperature Calibration Adjustment.

## TEMPERATURE CALIBRATION AND ADJUSTMENT

The maximum temperature of the shower valve has been factory pre-set at 38°C at the override position, if for any reason you wish to adjust the maximum temperature, please follow these instructions:

**Temperature adjustment - to increase the preset temperature to 38°C at the override position.**

1. Set the shower anti-clockwise at the preset 38°C "stop" position
2. Ensure the shower is running
3. Press the override button and turn in small increments anti-clockwise to reach 38°C at the shower outlet rose or handset.  
Note: After each increment allow the valve temperature to stabilise for 10 seconds.
4. Carefully remove the handle ensuring that the thermostatic control spindle is not rotated (as this will alter the preset temperature).
5. Carefully refit the temperature handle ensuring that the thermostatic control spindle is not rotated (as this will alter the preset temperature).

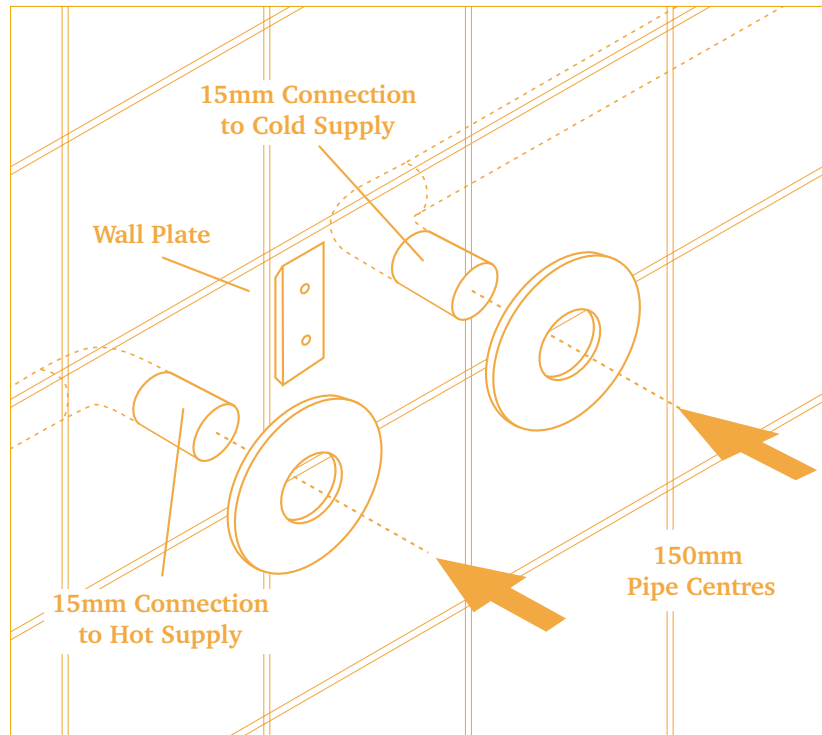
**Note: Ensure that the temperature handle is located against the 38°C stop on the override button.**

Note: if the shower valve does not adjust to the 38°C minimum, this suggests a problem with the incoming cold supply pressure. Please refer to the 'Fault Finding Chart'.

**Temperature adjustment - to decrease the preset temperature to 38°C at the override position.**

- To decrease the temperature carry out the same procedure as above but with a clockwise action.

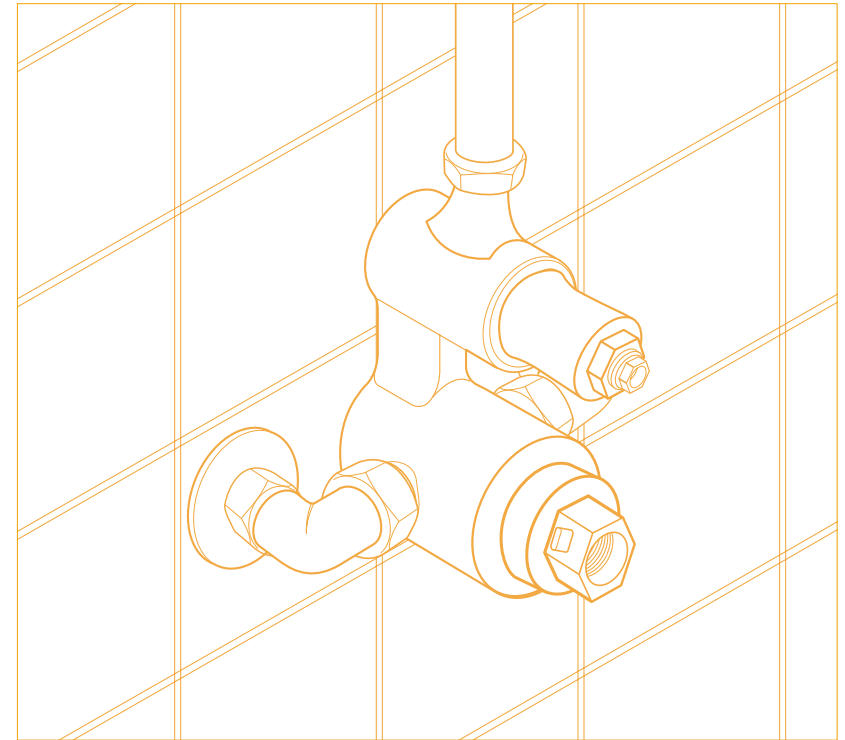
## 1. INSTALLATION INSTRUCTIONS EXPOSED



### 2. SITE PREPARATION

- Ensure hot and cold supply pipe feeds are positioned correctly ready to connect to the shower valve inlet elbows.
- If a rigid riser kit is being used, ensure the valve is positioned correctly to take the height of the vertical pipe.
- Position the wall plate and secure to the wall by means of suitable screw fixings (**specialised wall fixings may be required - not supplied**).
- Both hot and cold supply feed must be **flushed through** before connection to the shower valve is made. Re Water Supply Byelaw 55.
- To create a waterseal, use a thin line of suitable sealant around the supply pipe feeds and the tiles.
- Fit the concealing flange over the supply pipes.

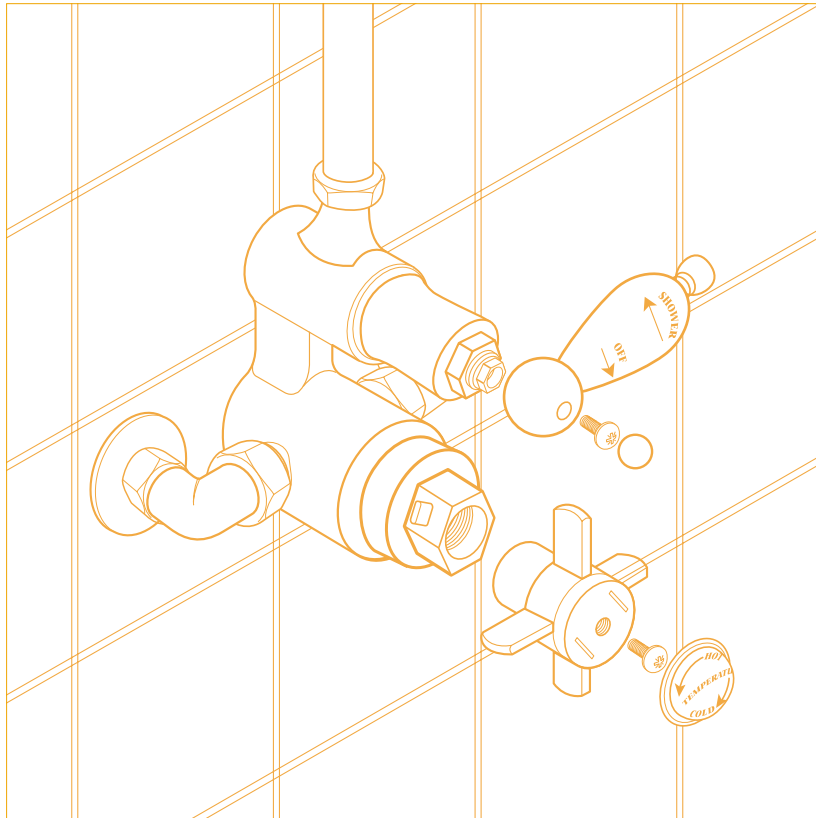
## INSTALLATION INSTRUCTIONS EXPOSED (continued)



### 3. CONNECT TO WATER SUPPLIES AND OUTLET

- Connect to the hot and cold water supply feeds to the shower valve,
- Make connection to shower outlet.
- **(CHECK FOR ANY LEAKS).**
- **When installing the valve with the outlet at the bottom, ensure that the hot and cold water supplies are reversed, i.e. hot on right, cold on left.**

## INSTALLATION INSTRUCTIONS EXPOSED (continued)



### 4. FINAL ASSEMBLY

- Fit the shower control handles (Style may vary depending on model).
- Check the function of the valve. The maximum temperature should be 38°C when set against the override stop; if not see temperature calibration and adjustment.

## TEMPERATURE CALIBRATION AND ADJUSTMENT

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4. Carefully remove the handle ensuring that the thermostatic control spindle is not rotated (as this will alter the preset temperature).
  5. Carefully refit the temperature handle ensuring that the thermostatic control spindle is not rotated (as this will alter the preset temperature).

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