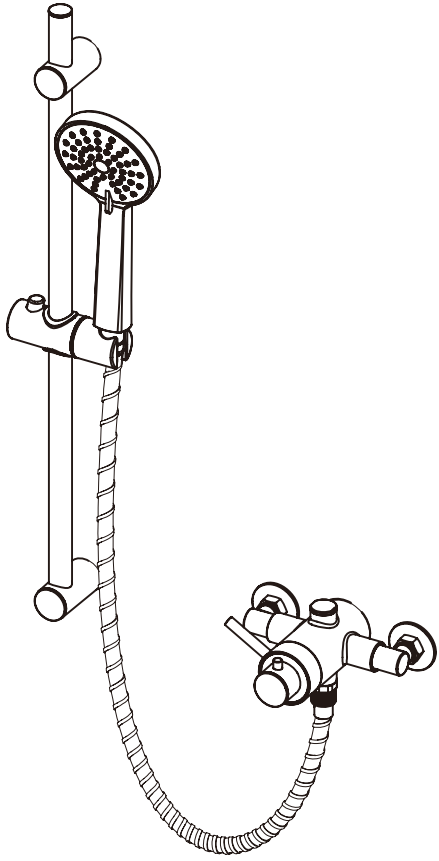
Exposed Thermostatic Valve with Adjustable Shower Kit

Fitting instructions

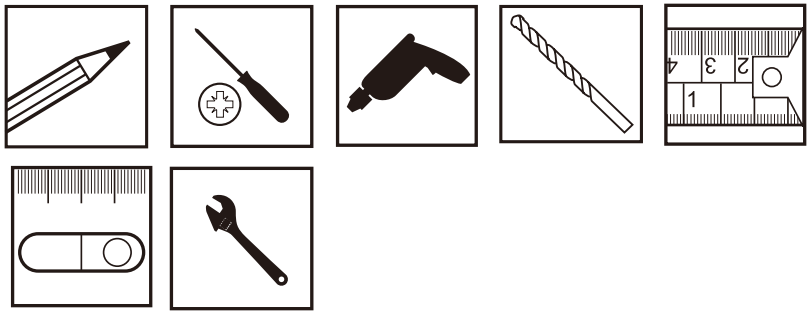


Please note: Tap head shown is for illustration purposes only.
Please keep these instructions for future reference and request of replacement parts.

We have taken great care to ensure that this product reaches you in perfect condition. However should any parts be damaged or missing please contact your point of purchase. This does not affect your statutory rights. In addition if you require replacement parts your point of purchase will be happy to assist.

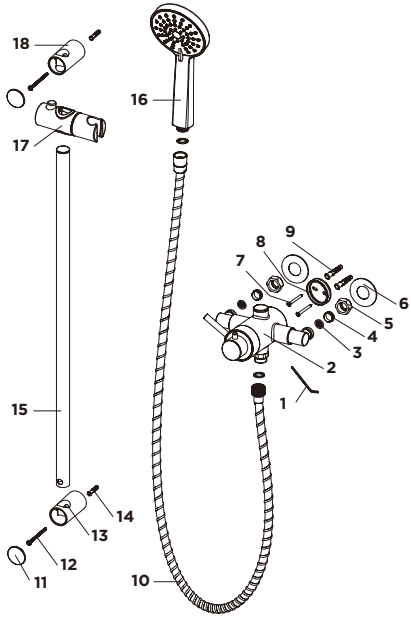
Contents

Tools Required
(Tools not supplied)



Parts Supplied

NO.	Description	Qty
1	2.5mm hexagonal key	1
2	Valve Body	1
3	Filter	2
4	Copper Olives	2
5	Nuts	2
6	Wall Plate	2
7	Wall Screws	2
8	Mounting Plate	1
9	Wall Plugs	2
10	Shower Hose	1
11	Cap	2
12	Wall Screw	2
13	Lower Rail Bracket	1
14	Wall Plugs	2
15	Rail	1
16	Handset	1
17	Slider	1
18	Upper Rail Bracket	1



Before Your Start

Hot water should be stored and distributed at a temperature of not less than 60°C which will help minimise the build-up of limescale.
For further details contact your Local Water Authority.

This shower should be installed in compliance with the UK Water Supply (Water Fittings) Regulations.
(a) Identify all components and check pack contents.
(b) Turn off water mains supply.

Water Supply Temperature:

Hot Water Maximum: 70˚C Recommended 60-65˚C
Cold Water Minimum: 5˚C Recommended 10-15˚C

Operating Pressure:

Minimum: 0.3 Bar
Maximum: 5.0 Bar
This pressure rating is determined by the manufacturer using soft water under test house conditions and may differ to the retailer´s recommendation.

Always maintain a 10˚C difference between hot system temperature and maximum hot setting of valve.
Hot and Cold Maximum pressure differential should be no more than 2 bars. If this limit is exceeded, fit a pressure reducing valve (not supplied).
Operating pressures on hot and cold lines should be kept as even as possible in order to ensure the maximum efficiency of the mixer.
When water pressure is higher than 5 bar a pressure reducing valve (not supplied) must be fitted before the mixer.
Flow restrictors(not supplied) can be fitted into the wall unions to reduce water consumption on high pressure system.

Installation

-Fitting the Thermostatic Valve (Exposed)

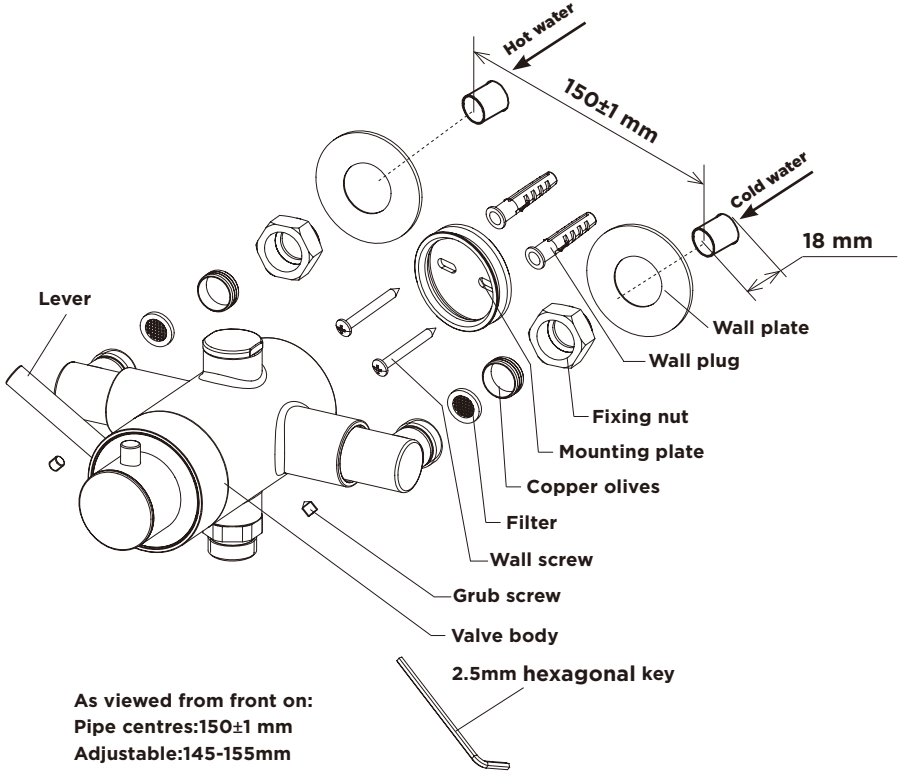
1. Allow the water to discharge safely to the waste, turn on the supplies to flush the system through. Attach pressure test equipment and pressure test the system in accordance with Water Supply Regulations.

Note: Turn off the water supply following system flushing.

---

2. Construct suitable 15mm inlet supplies at level 150mm centres. Ensure the pipework protrudes a minimum of 100mm, measured from the intended finished wall surface.

Note: The inlet elbows are supplied at factory set 150mm centres. If required, the inlet centres can be adjusted by winding the elbows into the body to reduce the inlet centres, or out to increase the inlet centres.



As viewed from front on:
Pipe centres:150±1 mm
Adjustable:145-155mm

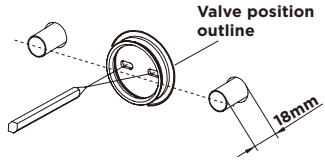
Pipe tails:18 mm
From finished surface.

3. Once the wall surface has been finished, flush through the pipe work prior to trimming the length of the pipes to 18mm, measured from the finished wall surface.

   Note: We recommend using a rotary type cutter but if a hacksaw is used, ensure the cut is straight and the pipe ends must be carefully deburred and chamfered.

   Note: If plastic pipe is used, tube inserts must be fitted and must not increase the diameter or extend the cut off length by more than 2mm.

4. Place valve body against the wall with elbows over the pipe tails and mark around the base where it sits on the wall. Remove valve body, place mounting bracket in centre of the outlined valve position and mark points for fixing holes.



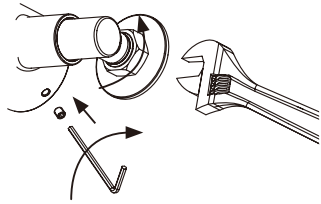
5. Important - Use appropriate fixings suitable for wall type/construction. Drill holes to suit required fixings (Use wall plugs supplied if suitable).

6. Secure mounting bracket to the wall using the wall screws supplied (if suitable).

7. Fit the elbow cover plates, fixing nuts and copper olives over the pipe tails and insert the filtered washers into the elbows of the valve.

8. Making sure the outlet is at the bottom and that the elbows align with the pipe tails, push the valve body onto the mounting bracket, and secure with the two grub screws using the 2.5mm hexagonal key (supplied).

   Securely tighten the nuts of the elbows using a suitable spanner.



9. Fit the lever to the on/off and flow control handle.

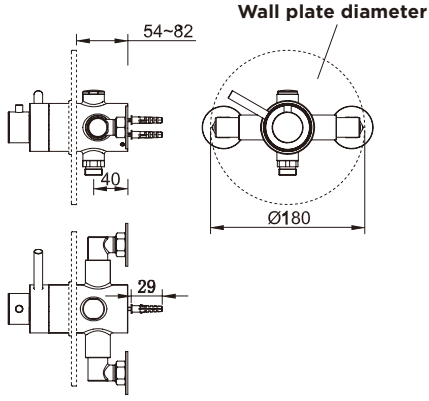
10. Turn on water supplies and check for leaks.

Installation

-Fitting the Thermostatic Valve (concealed)

1. Pre-fitting checklist

Chase out a suitable recess in the wall to receive the valve and pipework.
In most cases it will be necessary to first install a suitable fixing / nogging in the cavity area to secure the valve.



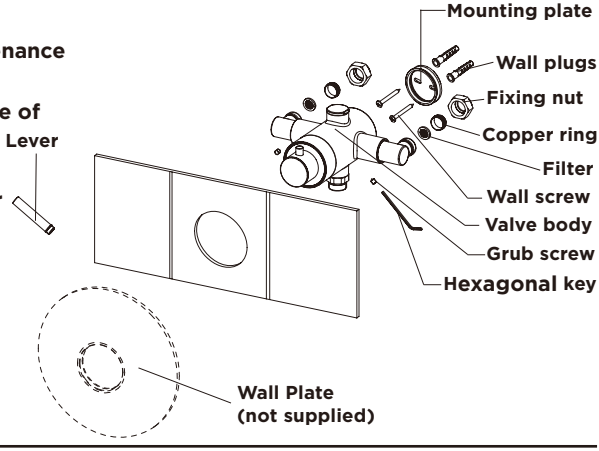
Note:

(1) A hole of Ø165mm is required to install the valve and gain access to the inlet and outlet connectors.

(2) The outlet connector can be repositioned to the top of the shower valve as required to suit plumbing arrangements. Simply swap with the blanking plug and ensure both are securely re-tightened.

IMPORTANT: Servicing and Maintenance access

To enable sufficient access for ease of installation, servicing and maintenance ensure:
ensure that the hot and cold water feeds are connected vertically not horizontally.
The inlet elbows are wound in as far as possible to keep the pipe centres to a minimum.



2. Construct hot and cold supply pipes to the proposed siting. Ensuring adequate provision to allow the water to discharge safely to waste, turn on the supplies to flush the system through. Attach pressure test equipment and pressure test the system in accordance with Water Supply Regulations.

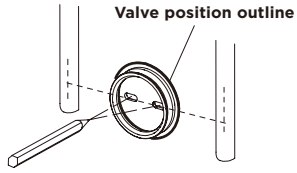
3. Turn off the water supply following system flushing.

4. Construct suitable 15mm inlet supplies at level centres and a 15mm outlet supply pipe to the desired location for the wall outlet.
Important: The inlet elbows are supplied at factory set 150mm centres. *We strongly recommend keeping the inlet centres to a minimum by winding the elbows into the body. Pipework for the wall outlet needs to terminate in a suitable ½" female connector (not supplied).

Note: All pipework and connectors must be secured using suitable fixings.

5. Trim pipework to the required length. Pipe insertion depth into the elbow is 10-12mm (excluding nut and olive).
Note: We recommend using a rotary type cutter but if a hacksaw is used, ensure the cut is straight and the pipe ends must be carefully deburred and chamfered. If plastic pipe is used, tube inserts must be fitted and must not increase the diameter or extend the cut off length by more than 2mm.

6. Place valve body into position with elbows over the pipe tails and mark around the base where it sits on the mounting surface.
Remove valve body, place mounting bracket in centre of the outlined valve position* and mark points for fixing holes.



7. Important - Use suitable fixings for the mounting surface/construction.
Drill holes to suit required fixings (use wall plugs supplied if suitable).

8. Secure bracket to the mounting surface using the wall screws supplied (if suitable).

9. Fit the fixing nuts and copper olives over the pipe tails.

10. Insert the filtered washers into the elbows

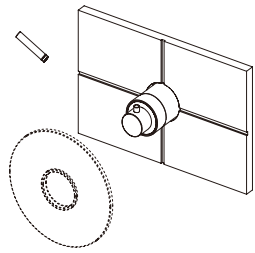
11. Making sure that the hot and cold inlet elbows align with correct supplies, feed onto the pipes and push the valve body onto the mounting bracket.
Secure with the two grub screws using the 2.5mm hexagonal key (supplied).
Securely tighten the nuts of the elbows using a suitable spanner

12. Using a suitable coupling connect pipework to the outlet of the valve body.
Please refer to Pre-fitting checklist page 7.
Outlet pipework needs to terminate in a suitable ½" female connector (not supplied). Refer to Shower Kit installation instructions page 9.

13. Turn on water supplies and check for leaks.

14. Install a cover panel (not supplied) or finish wall surface/tiles leaving sufficient access for future servicing and maintenance.
Note: The wall plate can be used as a template for the access hole size by placing it on the valve and drawing around the plate and measuring in by 15mm to allow sufficient surface area around the hole to fit the wall plate.

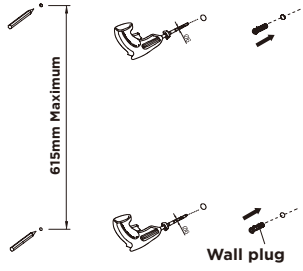
15. When the finished wall surface is completed, fit the wall plate (not supplied) to the shower valve and slide up to the wall surface (use a suitable bathroom sealant as necessary).
Screw the lever on to the on/off flow control handle.



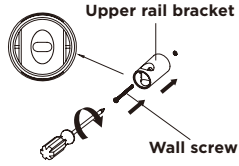
-Fitting the Shower Kit

1. mark and drill 2 holes (the centre of 2 holes are 615mm Maximum on the wall, ensure that the Shower Hose will not be over extended when the Slider is in its highest position.

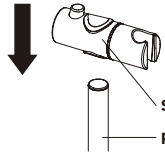
2. Once holes are drilled , insert Wall Plugs.



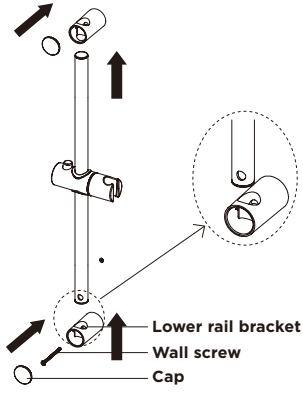
3. Fit Upper rail bracket to the wall using the wall screw provided (if suitable).



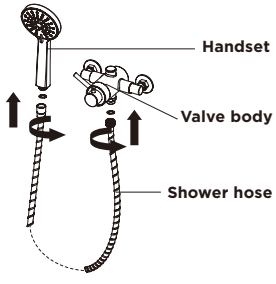
4. Fit the slider to rail.
Note: The silder button must be depressed whilst fitting. The button must be to the left of the rail, and the holder to the right, as shown.



5. Then fit lower rail bracket to rail.
Note: The large hole in the riser rail must be facing forward the installer.
6. Fit this assembly to Upper rail bracket through the hole of the upper rail bracket.
Tighten the lower rail bracket using the wall screws provided (if suitable).
7. Fit cap to the rail brackets.



8. Ensuring the hose washer is in position, attach the conical end of the hose to handset and tighten.
DO NOT OVER TIGHTEN.
Ensuring the hose washer is in position, attach the non-conical end of the hose to outlet of the valve body,.
Then place the showerhose in the handset holder.



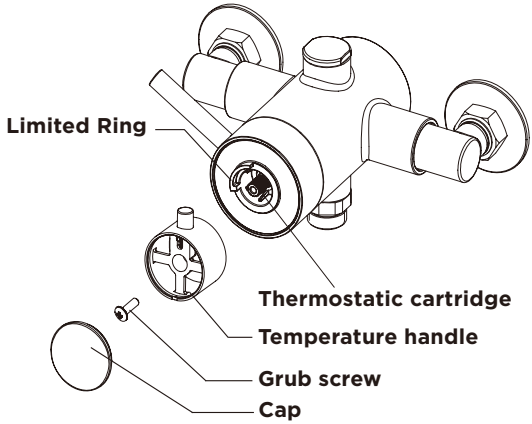
Temperature Setting(To be done only when essential)

This mixer has been set in the factory under balanced pressures and hot water supply at 65˚C.

When your operating conditions vary significantly from the above, the temperature of the mixed water may vary from the setting. In this case, you can set the temperature of the mixer to suit your requirements.

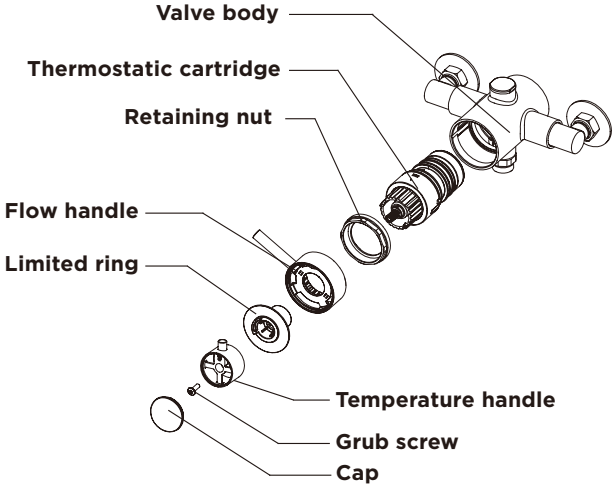
The valve is set to a maximum 48˚C. This can be checked if required using a thermometer. If this temperature is incorrect, you can reset it as the following:

1. **Turn the handle to 38˚C position.**
2. **Remove cap, then the grub screw, then the temperature handle and spindle.**
3. **Without removing the limited ring, turn the spindle of thermostatic valve using a nippers until the temperature is at the required level.**
4. **Test again using a thermometer.**
5. **When the required temperature is reached, re-fit the components, so that the stop will be at your new set temperature.**



Cleaning the thermostatic cartridge

1. Before carrying out any maintenance, turn off the mains water supply. If you are unsure contact a qualified plumber.
2. Remove the cap, grub screw, temperature handle, then remove the limited ring. Note: take note of the position of the limited ring, they must be re-fitted in the same position.
3. Push the buttons of the thermostatic cartridge outward and pull out the flow handle in upright direction at the same time. See Fig 1.
4. Remove the retaining nut using a suitable spanner, remove and clean the thermostatic cartridge thoroughly under cold water to remove any build up of limescale or debris. Note: take note of the position of the thermostatic cartridge, they must be refitted in the same position.
5. If necessary replace the thermostatic cartridge.
6. Re-fit the cartridge into the body, tighten the retaining nut using a suitable spanner.
7. Re-fit the flow handle, limited ring, and temperature handle. Tighten the grub screw and re-fit cap to handle. Note: the square holes of the flow handle to be alignment with the buttons of the thermostatic cartridge and push-in.



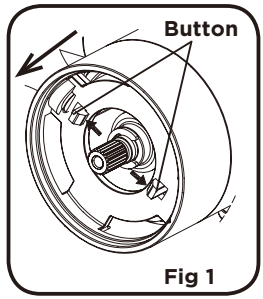


Fig 1

General cleaning

Whilst modern plating techniques are used in the manufacture of these fittings, the plating will wear if not cleaned properly. The safest way to clean your product is to wipe with a soft damp cloth. Stains can be removed using washing up liquid. All cleaning powders and liquids will damage the surface of your fitting even the non-scratch cleaners.

Troubleshooting

Symptom	Cause	Remedy
No flow or low flow rate and /or varying temperatures.	Check showerhead, hose and filters for any blockage.	Clean as necessary. Refer to Aftercare section (page 11).
	Partially closed stop or service valve in water supply pipework to the shower valve.	Open stop or service valve.
	Instantaneous water heater cycles on and off as the flow rate or pressure is too low.	Increase water flow rate or pressure through system. Contact the boiler manufacturer.
	Head of water is below the minimum distance required.	Raise the cistern or fit a shower booster pump.
	Inlet filter is partially blocked.	Clean or replace, flush through pipework before refitting.
	Hot or cold water being drawn off elsewhere causing pressure changes or instantaneous boiler temperature changes.	Do not use other water outlets when using the shower.
	Make sure the maintained inlet pressures are nominally balanced and sufficient.	Refer to Water Supply Temperature (page 4).
	Airlock or partial blockage of the pipework.	Flush through pipework to ensure removal of debris and any airlocks.
	No hot or cold water reaching the shower valve.	Check hot and cold feeds (the valve will shut down if either the hot or cold supply fails).
Only hot or cold water from the shower valve outlet.	Partially closed stop or service valve in water supply pipework to the shower valve.	Open stop or service valve.
	Inlet filter is partially blocked.	Clean or replace, flush through pipework before refitting.
	Inlet water supplies are reversed (hot to cold supply).	Check the connections are the correct way round. Hot on the left and cold on the right when viewed from the front. Rework pipework as necessary.
Water leaking from showerhead.	This is normal for a short time after turning off.	Adjust angle of showerhead in holder as necessary to vary draining time.
	Shower flow valve failing to close fully,possibly due to water borne debris.	Remove flow valve and check. Refer to Aftercare section (page 11) before dismantling shower valve.
Maximum water temperature too hot or cold.	Maximum water temperature set incorrectly.	Reset maximum water temperature. Refer to Temperature setting (page 10).
Outlet water temperature too hot / cold.	Inlet filter is partially blocked.	Check inlet filters for any blockages and clean as necessary.
	Installation conditions outside operating parameters.	Refer to Water Supply Temperature (page 4). Refer to Aftercare section (page 11). Refer to Temperature setting (page 10).
Water temperature too cold Maximum water temperature incorrectly set.	Hot water temperature is less than 10°c above the required blend temperature.	Adjust hot water temperature or wait for water to reheat if stored system is used.
	Instantaneous water heater not igniting because water flow rate is too low.	Increase water flow rate through the system. Check inlet filters and clean or replace. Refer to Aftercare section (page 11). Contact the boiler manufacturer.