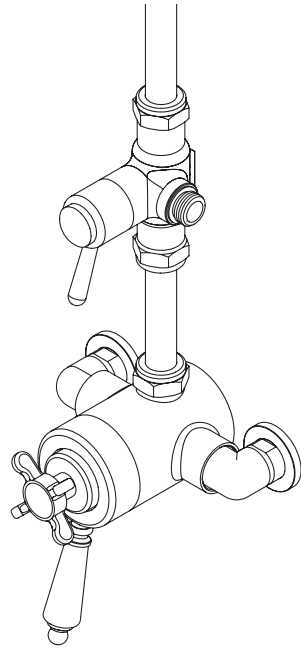


BRISTAN

Installation Instructions and User Guide Single & Dual Control Exposed Top Outlet Shower Valves



Models covered: PM2 CSHXTVO C,
PM2 SQSHXTVO C, PM2 SQSHXDIV C
N2 CSHXDIV C, N2 CSHXTVO C,
N2 CSHXTVO G, N2 SQSHXDIV C,
N2 SQSHXTVO C, N2 SQSHXTVO G, &
TY2 CSHXDIV C

Please keep this booklet for future
reference.

Installer, when you have read these
instructions please ensure you leave them
with the user.

Contents



Thank you for choosing Bristan, the UK's leading showers and taps expert.

Your Bristan mixer tap is a thermostatic mixer incorporating a wax capsule thermostat to ensure constant temperatures. These instructions are for your guidance to a safe and successful installation and should be left with the user.

All products manufactured and supplied by Bristan are safe providing they are installed correctly and receive regular maintenance in accordance with these instructions.

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Important Safety Information

- Please read these instructions thoroughly and retain for future use.
- All products manufactured and supplied by Bristan are safe provided they are installed, used correctly and receive regular maintenance in accordance with these instructions.
- If you are in any doubt about your ability to install this mixer tap safely you must employ the services of an experienced qualified plumber.
- These fittings need to be installed in accordance with, and meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.
-  Warning: Do not operate the mixer if you suspect it is frozen. Do not site the mixer valve where it might be subjected to freezing conditions.
- Remove all packaging and check the contents for damage before starting installation.
- Before starting any installation please consider the following: before drilling into walls, check that there are no hidden electrical wires, cables or water supply pipes. This can be checked with the aid of an electronic detector.
- If power tools are used do not forget to:
 - Wear eye protection
 - Unplug equipment after use
- Fitting isolating valves to the inlet feeds is required for ease of maintenance.
-  Warning: Before installing the new mixer valve it is essential that you thoroughly flush through the pipework in order to remove any remaining swarf, solder, etc. Failure to carry out this procedure could cause problems or damage to the workings of the mixer tap.
- This mixer valve must not be modified in any way as this will invalidate the guarantee.

General Information

Operating pressure range: Minimum 0.1 bar, Maximum 5.0 bar.

Maximum static pressure: 10.0 bar.

This product has been designed and tested to comply with the BS EN 1287:1999 (LP) and BS EN 1111:1999 (HP) thermostatic mixing valve standards.

BS 8558 recommends hot water should be stored and distributed at a temperature of not less than 60°C which will help minimise the build-up of lime scale in hard water areas.

If the fitting is installed at low pressure (tank fed), then the minimum distance from the outlet to the underside of the cold tank should be at least 1 metre to ensure adequate performance.

Note: Nominally equal (balanced) inlet supply pressures are recommended for optimum performance with mixer taps.

This shower valve should be installed in compliance with the Water Supply (Water Fittings) Regulations 1999 and the current Scottish Bylaws 2004.

If in doubt, contact a registered plumber or your Local Water Authority or the Secretary of The Institute of Plumbing, address as follows;-

The Institute of Plumbing,
64 Station Lane,
Hornchurch,
Essex, RM12 6NB
Tel:01708 472791

Recommended Usage			
Domestic	✓	Heavy Commercial	✗
Light Commercial	✗	Health Care	✗

Specifications

Specifications

Inlet connections: 15mm compression with 136-158 adjustable centres.

Outlet connection: 15mm compression.

Operating pressure range: Min. 0.1 Bar - Max. 5.0 Bar - Maximum recommended imbalance between hot and cold supply should not exceed a ratio of 5:1.

PM2 SQSHXDIV C & FLT SQSHCDIV C - Min 1.0 Bar - Max 5.0 Bar

Important: If using this product on a low pressure system (0.1-0.2bar) we recommend the NRV in the diverter to be removed to ensure maximum flow.

Maximum Static Pressure: 10 Bar

Maximum outlet temp: Factory pre-set to 42°C

(can be re-set to suit site conditions). If the temperature is re-set to suit different site conditions the mixer will work adequately however the TMV2 scheme will not apply.

Supply requirements:

Minimum cold water supply temperature: 5°C.

Maximum cold water supply temperature: 25°C.

Maximum hot water supply temperature: 80°C.

(a maximum hot water supply temperature of 60 - 65°C is recommended for ablutionary purposes)

Note: The inlet hot water temperature must be at least 10°C above the required blend temperature (eg. mixer temperature 41°C: minimum hot supply 51°C).

System Requirements

Gravity fed hot & cold (Equal pressures)

Gravity fed hot & mains cold (Different pressure, maximum ratio 5:1)

Unvented systems

Instantaneous water heater (combination boiler)

Pumped system

Note: when using a pumped system we recommend that an Essex flange is used.

Valves operating outside these conditions of use cannot be guaranteed to operate as type 2 valves.

Need help? Give us a call on 0330 026 6273 and speak to one of our trained advisers.

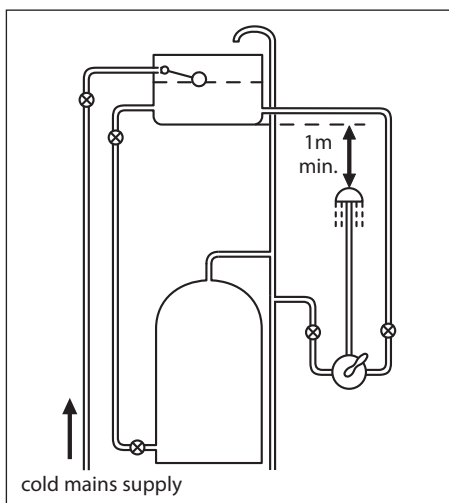
Installation Requirements

This shower valve must be installed in compliance with current water regulations. If you have any doubts about the water regulation requirements contact your local water services provider or use the services of a professional plumber.

This shower valve is suitable for use with the following water supply systems:

- Gravity Fed Hot and Cold (pressure balanced)
- Gravity Fed Hot and Mains Cold (differential pressure - see Specification section on page 5)
- Instantaneous water heater (combination boiler)
- Unvented System
- Pumped System

Gravity Fed Hot and Cold



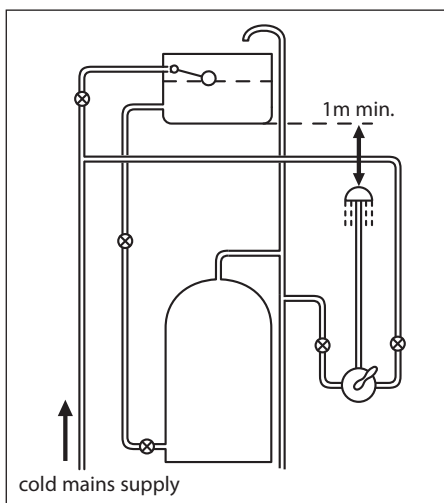
⚠ Important: If you install this shower valve with a gravity fed system, there must be a minimum head (vertical distance) from the underside of the cold water storage tank to the outlet of at least 1 metre .

Note: Pumped system (with Essex flange) If you install this shower valve to a pumped gravity fed system where the minimum head (vertical distance) from the underside of the cold water storage tank to the top of the hot water cylinder is less than 1 metre we recommend an Essex flange is used as shown.

⚠ Flushing Pipe-work

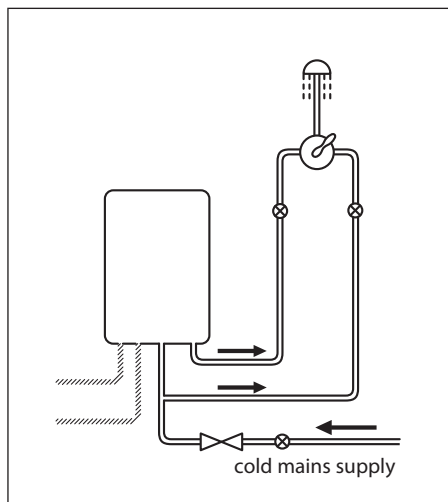
Important: Before connecting the shower valve (see 'Installation' on pages 11-12), the supply pipe-work must be flushed to clear debris before connecting the mixer tap. Debris will reduce the performance and life of the mixer.

Gravity Fed Hot and Mains Cold

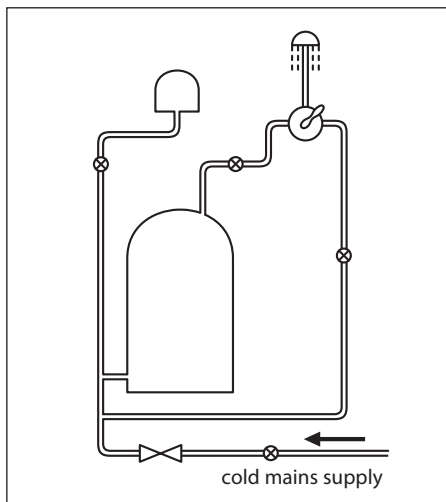


Installation Requirements

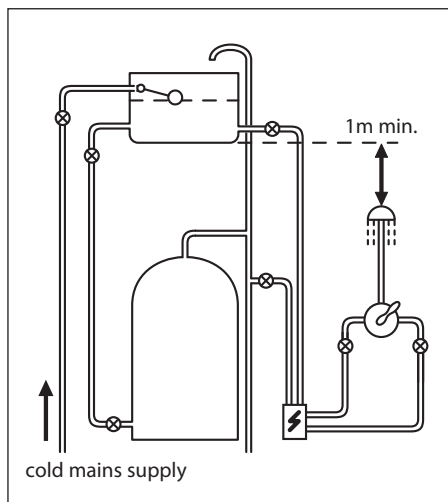
Instantaneous Water Heater



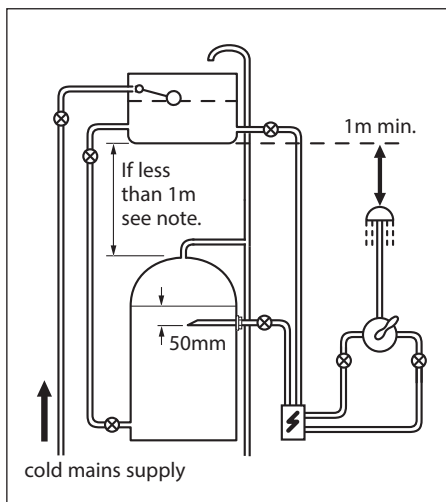
Unvented System



Pumped System



Pumped System (with Essex flange)



Key:



Isolating
Valve



Reducing
Valve



Shower
Valve



Pump



Essex
Flange

Installation Requirements

This fitting needs to be installed in accordance with the following Installation Requirements and Notes (IRN) to ensure they meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and the Scottish Byelaws 2004.

IRN R001: See text of entry for Installation Requirements or Notes.

IRN R040 - Schedule 2-15 (1): The fitting shall be installed so that its outlet discharges above the spill-over level of any fixed appliance as indicated below:-

For backflow protection in domestic or installations up to, and including, Fluid Category 3.

If the fitting cannot be installed as indicated in the table opposite it shall be installed as either a or b below:

a: with an approved double check valve assembly or some other no less effective backflow prevention device immediately upstream of the inlet.

b: so that it draws water by gravity only from a cistern, or cylinder having a permanently open vent pipe, and the distributing pipe supplies no other fittings (other than a draining tap) at a lower level.

For backflow protection in premises or installations up to, and including Fluid Category 5.

The vertical distance of the outlet above the spill-over level shall be not less than 20mm or twice the diameter of the inlet pipe to the fitting, which ever is the greater. If the fitting cannot be installed as indicated it shall be installed with a backflow prevention arrangement suitable for the Fluid Category.

Size of tap or combination fitting	Vertical distance of outlet above spill-over level
1. Not exceeding ½"	20mm
2. Exceeding ½" but not exceeding ¾"	25mm
3. Exceeding ¾"	70mm

Installation Requirements

Conditions of use for Type 2 (Thermostatic mixer) valves

	High Pressure	Low Pressure
Maximum Static Pressure (Bar)	10	10
Flow Pressure, Hot & Cold (Bar)	0.5 to 5	0.1 to 1
Hot Supply Temperature (°C)	55 to 65	55 to 65
Cold Supply Temperature (°C)	Equal to or Less than 25	Equal to or Less than 25

Note: Valves operating outside these conditions cannot be guaranteed by the Scheme to operate as Type 2 valves.

If a water supply is fed by gravity then the supply pressure should be verified to ensure the conditions of use are appropriate for the valve.

Recommended outlet temperatures

The BuildCert TMV scheme recommends the following set maximum mixed water outlet temperatures for use in all premises:

41°C for showers.

The mixed water temperatures must never exceed 46°C.

The maximum mixed water temperature can be 2°C above the recommended maximum set outlet temperatures.

Note: 46°C is the maximum mixed water temperature from the bath tap. The maximum temperature takes account of the allowable temperature tolerances inherent in thermostatic mixing valves and

temperature losses in metal baths.



Warning: It is not a safe bathing temperature for adults or children.

The British Burns Association recommends 37 to 37.5°C as a comfortable bathing temperature for children. In premises covered by the Care Standards Act 2000, the maximum mixed water outlet temperature is 43°C.

The thermostatic mixing valve (TMV) will be installed in such a position that maintenance of the TMV and its valves and the commissioning and testing of the TMV can be undertaken.

The fitting of isolation valves is required as close as is practical to the water supply inlets of the thermostatic mixing valve.

Prior to Installation

Flow Regulator removal.

This shower valve comes fitted with 2 x 8 litre per minute flow regulators fitted into each inlet elbow.

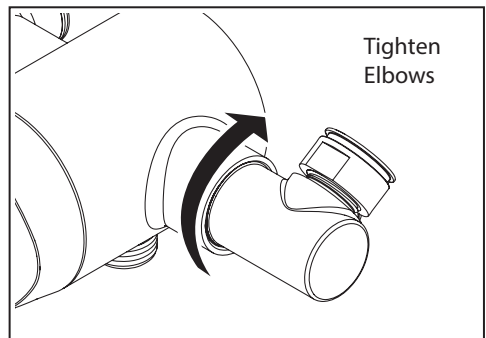
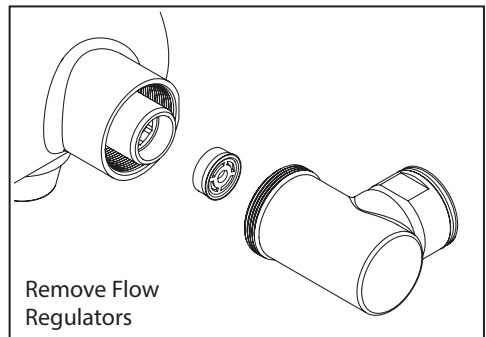
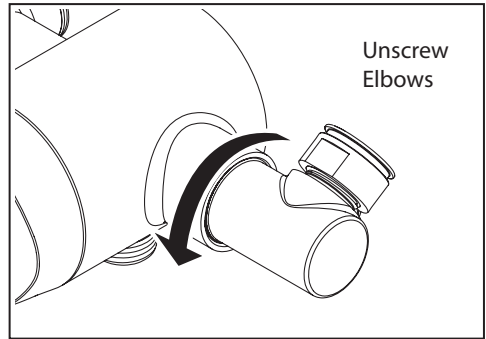
If the shower valve is to be installed on a low pressure system the flow regulators can be removed.

To Remove the Flow Regulators

Unscrew the inlet elbows from the valve body.

Remove the flow regulators from the inlets.

Screw the elbows back onto the valve body.




Installation - Shower Valve

Before Installation

Flush through the pipework to ensure removal of any debris. Turn off the mains water supply and close any isolating valves.

1. Inlet positions & supply pipework

This shower valve has three inlet positions - top, bottom and rear. Rotate the inlet elbows as required.


 Important: Always remember to fully tighten the inlet elbows if the position is changed.

Sufficient 15mm diameter supply pipework should protrude through the finished wall surface to fit fully into the shower valve elbows.

2. Attach backplate to wall

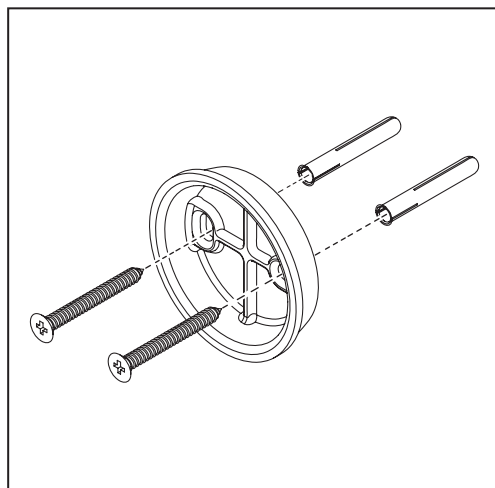
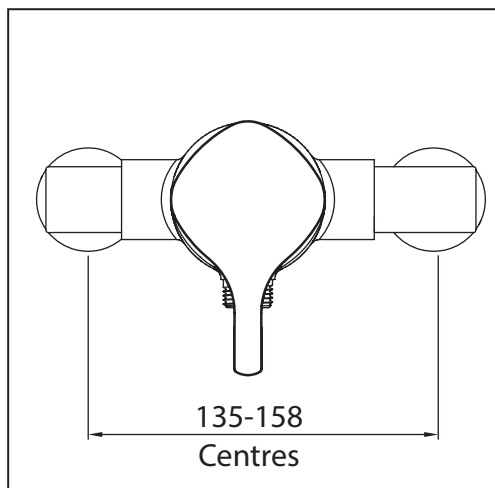
Loosen the backplate grub screw on the underside of the shower valve using a suitable hexagonal key.

Use the backplate as a template and mark the centres of the fixing holes onto the wall.

 Warning: Please check for any hidden pipes and cables before drilling holes into the wall.

Drill suitable holes and insert the wall plugs. Attach the backplate to the wall using the fixings supplied.

Important: Water supplies to the mixer must be with hot on the left and cold on the right when viewed from the front.

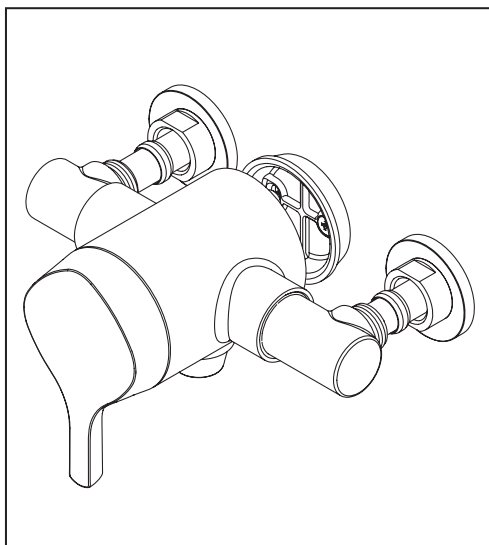
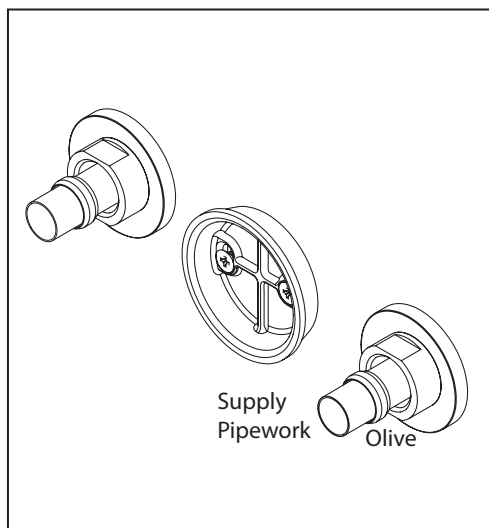


Installation - Shower Valve

3. Attach shower valve

Place the shrouds, nuts and olives over the water supply pipes. Fit the shower valve onto the backplate, inserting the 15mm hot and cold water supply pipes into the inlet connections and tighten the nuts. Ensure the olives are fitted to the water supply pipes.

Secure the shower valve to the wall by tightening the grub screw on the underside of the body, using a suitable hexagonal key.

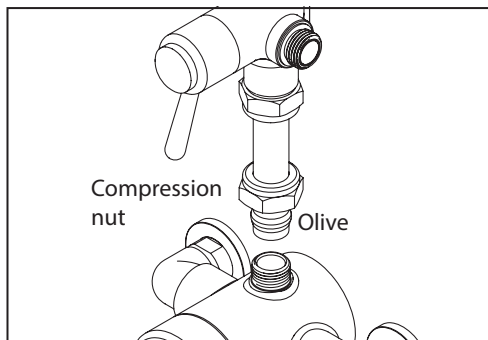


Installation - Antique Diverter & Rigid Riser

1. Attach diverter to valve

Push the short connecting tube into the top outlet on the shower valve ensuring the nut and olive are fitted to the connecting tube.


Tighten the nut fully using a suitable spanner to ensure a water tight seal.



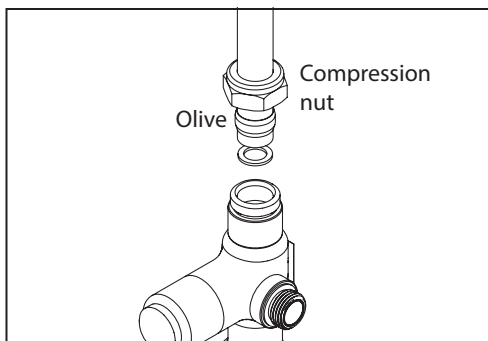
Rigid Riser Installation

1. Push the rigid riser into the top of the diverter. Push the handset holder onto the rigid riser.

2. Fit the top wall bracket onto the top of the rigid riser and place against the wall surface. Mark the position and remove from the rigid riser.

 **Warning:** Please check for any hidden pipes and cables before drilling holes into the wall.

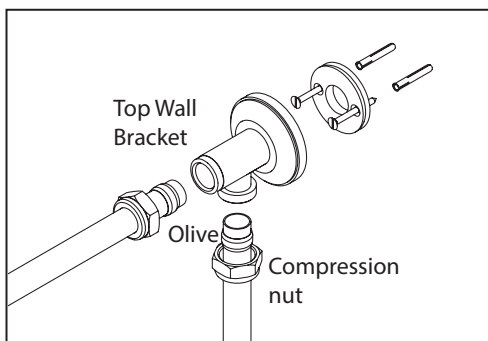
Drill suitable holes and insert the wall plugs. Push the Top bracket back onto the rigid riser and attach to the wall using the fixings supplied.



3. Push the arm into the top bracket, ensuring the nut and olive are fitted to the arm. Tighten the nut fully using a suitable spanner.

4. Screw the shower rose onto the arm, ensuring the sealing washer is fitted between the rose and arm.

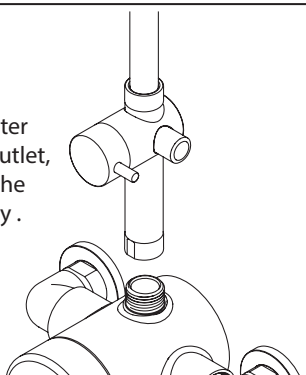
5. Attach the shower hose to the diverter and handset using the sealing washers are fitted between the connections.



Installation - Diverter & Rigid Riser

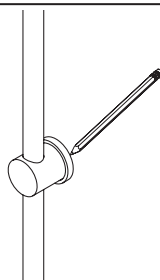
1

Fit the diverter to the top outlet, tightening the backnut fully.



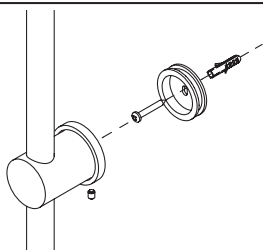
2

Position the fixing bracket against the wall. Mark the position and remove bracket from the wall.



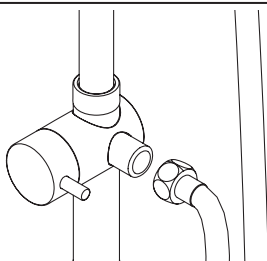
3

Remove the wall bracket fixing. Secure the wall bracket to the wall surface using the fixings supplied.



4

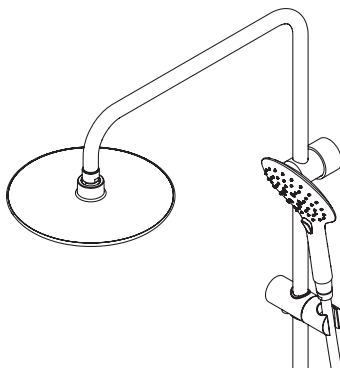
Screw the shower hose onto the diverter connection, and the shower rose onto the arm. Ensure the sealing washers are used between the connections.



5

Attach the shower hose to the handset. Place the handset into the handset holder. The conical end of the hose sits into the handset holder.

To adjust the height of the handset, press in the button and slide the handset holder up or down.

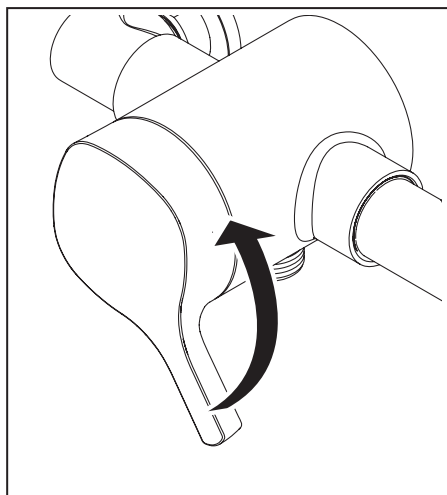


Operating the Shower

Sequential Shower Valve

Turn the control handle clockwise to turn the flow of water on.

Continue to turn the flow lever to increase the water temperature.



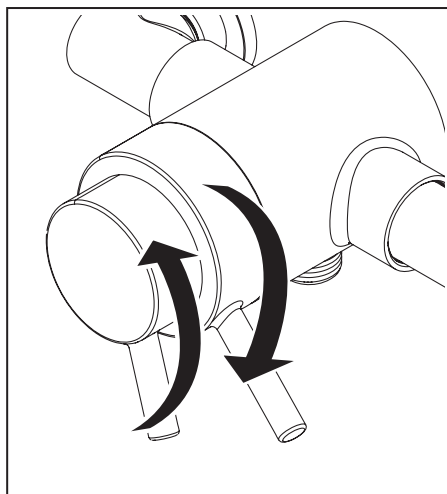
Concentric Shower Valve

Turn the flow lever clockwise to turn on the flow of water.

The further the handle is turned the greater the flow of water.

Turn the temperature lever anti-clockwise to increase the water temperature.

The further the handle is turned the hotter the water temperature.



Commissioning

Commissioning notes for Thermostatic Mixing Valves

The first step in commissioning a thermostatic mixing valve is to check the following:

1. The designation of the thermostatic mixing valve matches the application.
2. The supply pressures are within the valves operating range.
3. The supply temperatures are within the valves operating range.
4. Isolating valves (and strainers preferred) are provided.

If all these conditions are met, proceed to set the temperature as stipulated in the Maintenance section.

The mixed water temperature at the terminal fitting must never exceed 46°C.

When commissioning / testing is due the following performance checks shall be carried out:

- Measure the mixed water temperature at the outlet.
- Carry out the cold water supply isolation test by isolating the cold water supply to the TMV, wait for five seconds, if water is still flowing check that the temperature is below 46°C.

If there is no significant change to the set outlet temperature ($\pm 2^{\circ}\text{C}$ or less change from the original settings) and the fail-safe shut off is functioning, then the valve is working correctly and no further service work is required.

Notes: If there is a residual flow during the commissioning or the annual verification (cold water supply isolation test), then this is acceptable providing the temperature of the water seeping from the valve is no more than 2°C above the designated maximum mixed water outlet temperature setting of the valve.

Temperature readings should be taken at the normal flow rate after allowing for the system to stabilise.

The sensing part of the thermometer probe must be fully submerged in the water that is to be tested.

Any TMV that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the instructions in the Maintenance section.

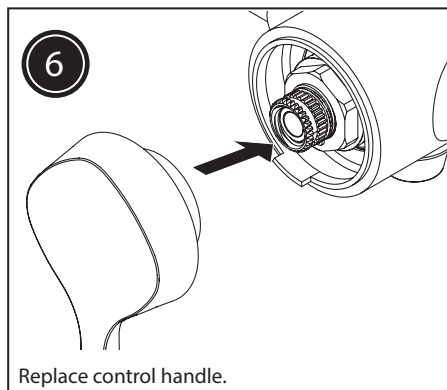
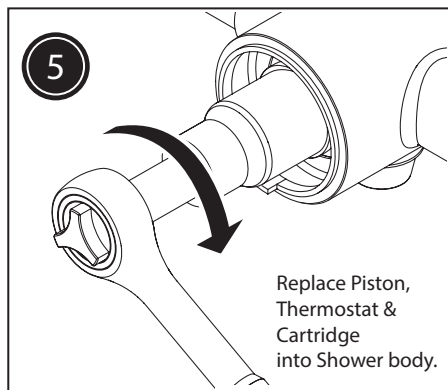
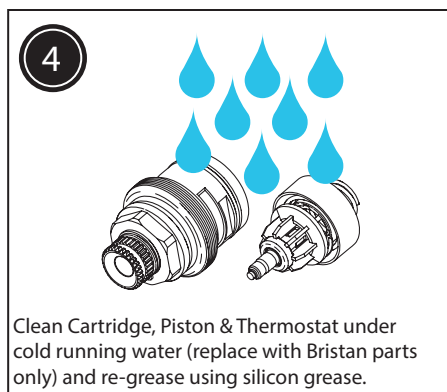
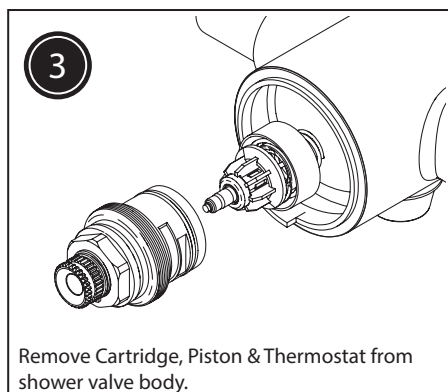
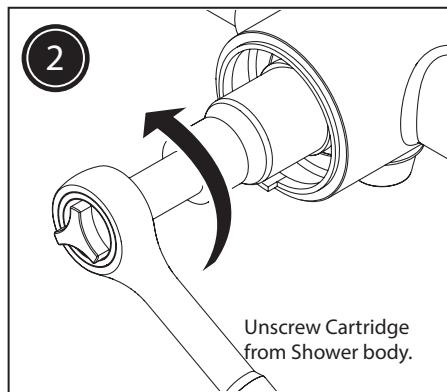
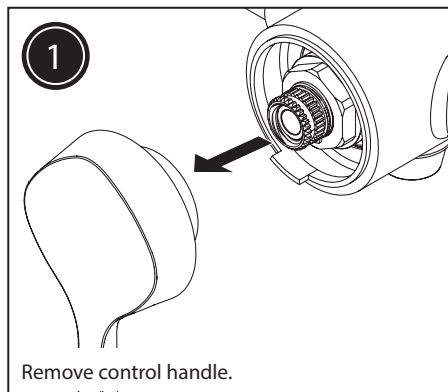
The installation of thermostatic mixing valves must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999.

General Cleaning

Your fitting has a high quality finish and should be treated with care to preserve the visible surfaces. All surfaces will wear if not cleaned correctly, the only safe way to clean your mixer is to wipe with a soft damp cloth. Stains can be removed using washing up liquid. All bath cleaning powders and liquids will damage the surface of your fitting, even the non-scratch cleaners.

Note: Never use abrasive detergents or disinfectants or those containing alcohol, hydrochloric acid or phosphoric acid.

Maintenance - Cartridge Cleaning



Maintenance - NRV Cleaning

Non Return Valve Maintenance

If the shower valve does not function correctly the non return valves may need cleaning / replacing. To service the non return valves the following should be carried out.

1. Isolate Water Supplies

Isolate both hot and cold water supplies to the shower valve by either;

Turning the water supply off at the mains stopcock or,

Turning off the isolation valves to the shower valve.

2. Remove Elbows

Unscrew the elbows from the shower valve. Remove the flow regulators (if fitted).

3. Remove Non Return Valves

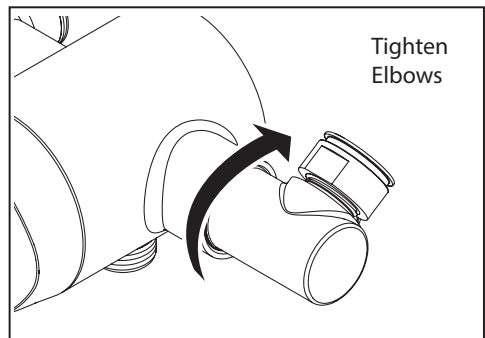
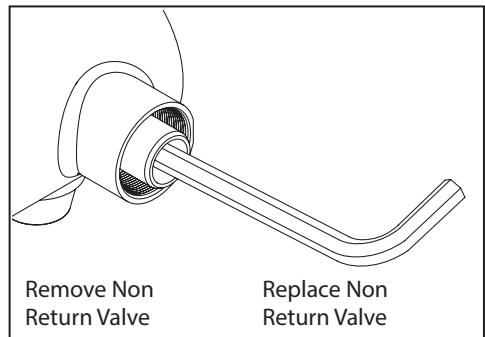
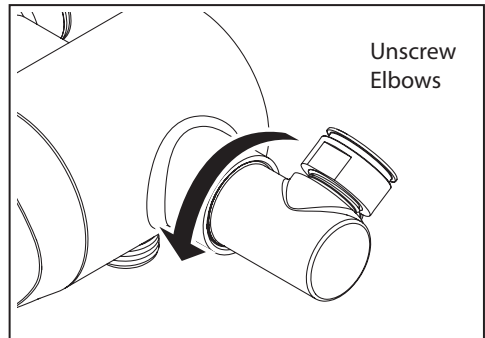
Using a 10mm hexagonal key unscrew the non return valve housing from the shower valve inlet. Push the NRV out from the housing.

Clean the non return valve under cold running water. If damaged replace using a replacement supplied by Bristan.

Replace the non return valve into the housing and replace into the shower valve body, tightening with a 10mm hexagonal key.

4. Replace Elbows

Push the flow regulators into the shower valve inlets (If used). Screw the elbows back onto the shower valve inlets.



Maintenance - Temperature Setting

Adjusting the Temperature

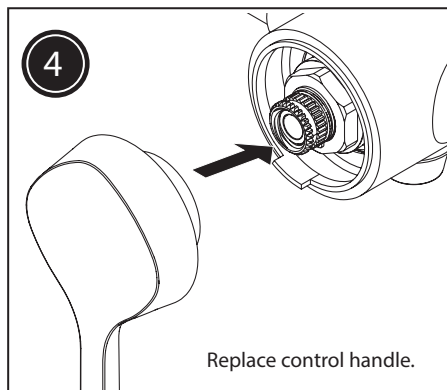
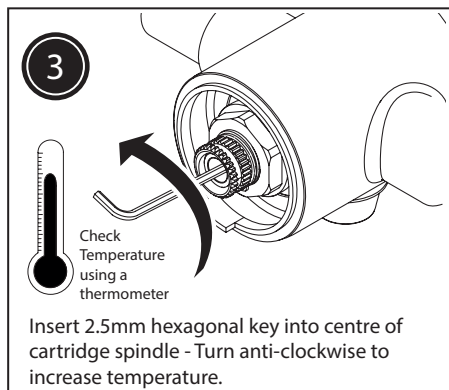
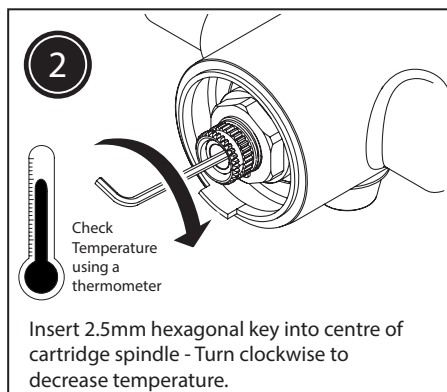
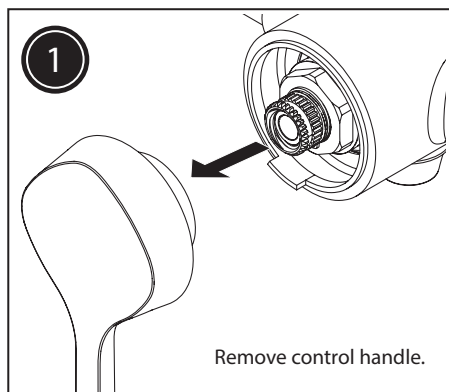
The shower valve has been factory set with equal (balanced) hot and cold water supply pressures with the hot water supply at 65°C.

If your operating conditions are different from those above, the outlet water temperature may differ from the factory setting.

If required the shower valve can be re-calibrated to suit your own temperature requirements.

Turn the temperature control anti-clockwise (hotter) fully until it stops and check the temperature of the water with a thermometer. If the temperature is not correct, re-calibrate the shower valve following the steps below.

Sequential Valves



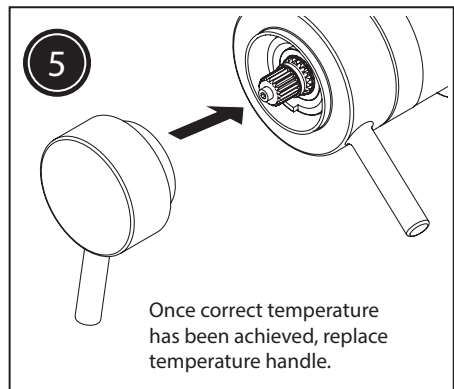
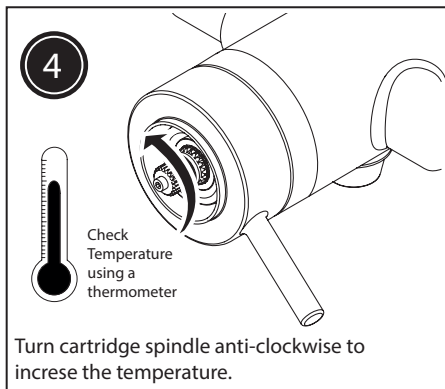
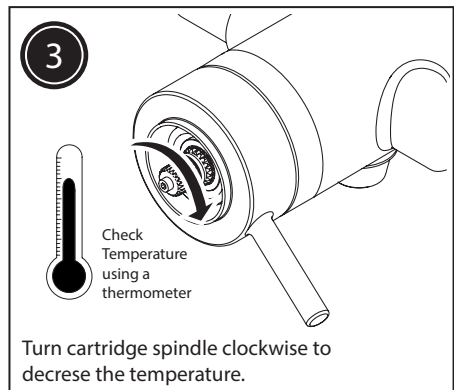
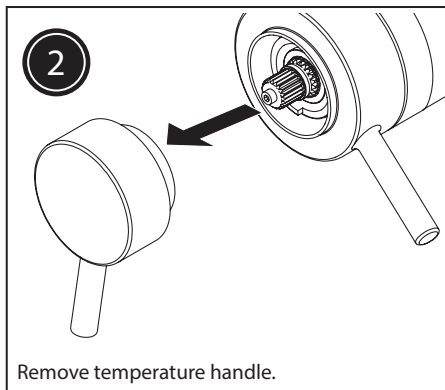
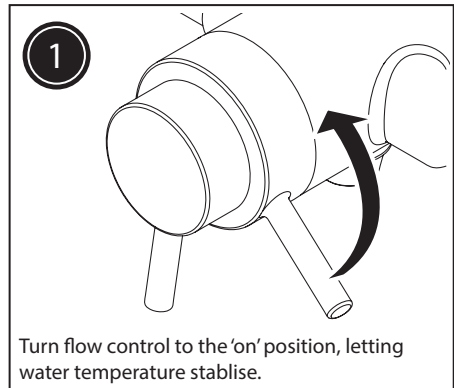
Maintenance - Temperature Setting

Concentric Valves

If required the shower valve can be re-calibrated to suit your own temperature requirements.

Turn the flow control to the 'on' position.

Turn the temperature control anti-clockwise (hotter) fully until it stops and check the temperature of the water with a thermometer. If the temperature is not correct, re-calibrate the shower valve following the steps below.



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 Maintenance section (pages 17-20).
	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 Specification (page 5).
	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.

Troubleshooting - cont.

Symptom	Cause	Remedy
Maximum water temperature too hot or cold.	Maximum water temperature set incorrectly.	Reset maximum water temperature. Refer to 'Maximum Temperature setting' in Maintenance section (pages 17-20) and 'Temperature Setting' (pages 19-20)
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 Specification (page 5). Service shower valve as recommended. Refer to Maintenance section (pages 17-20). Refer to 'Temperature Setting' section (pages 19-20).
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 Maintenance section (pages 17-20). Contact the boiler manufacturer.

Notes

Please use this space to add any notes you or your installer may have regarding the plumbing system / installation of this product.

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Guarantee

At Bristan, we want to make things as easy as possible for our customers. That's why we design products that are easy to fit and use, and that are quality tested to make sure they won't let you down. It's also why we offer solid guarantees on all products, effective from the date of purchase, to give you peace of mind.

Bristan's shower valves are covered by a 5 year guarantee. This also includes 5 year labour cover* (subject to registration) which means that, in the unlikely event that there is a problem in the first year after purchase, we'll send one of our expert engineers to fix it.

*Labour is provided by an approved Bristan Care engineer or appointed representative. The guarantee only applies to products with a manufacturing fault. There will be a call out charge for any incidents where no fault has been found with the product, or if the issue is due to poor installation or maintenance.

Guarantee Terms and Conditions

This guarantee is in addition to your statutory and other legal rights and is subject to the following conditions:

- The product was purchased within the United Kingdom or Republic of Ireland.
- The guarantee applies solely to the original purchaser with proof of purchase.
- The installation must allow ready access to all products for the purpose of inspection, maintenance or replacement.

- Repair under this guarantee does not extend the original expiry date. The guarantee on any replacement parts or product ends at the original expiry date

- Any part found to be defective during the guarantee period will be replaced without charge, providing that the product has been installed in accordance with the instructions given in this guide and used as the manufacturer intended.

The guarantee does not cover

- Damage or defects caused by:
 - General wear and tear (including special non-chrome finishes;
 - Components such as filters, seals, 'O' rings and washers)
 - Incorrect installation
 - Repair using non-Bristan part
 - Accidental or wilful misuse
 - Corrosion and the use of inappropriate cleaning products.
 - System debris including the build up of limescale (which can be controlled through regular servicing and maintenance)
- Compensation for loss of use of the product or consequential loss of any kind.

In the interests of continuous product improvement, Bristan reserves the right to alter product specifications without notice.

The Bristan Product Guarantee does not affect your statutory rights as a consumer.

Guarantee & Service Policy

Need help?

If this product does not function correctly when first used, contact Bristan Care Customer Service on 0330 026 6273 where our expert team of advisors will be able to offer you help and advice.

Problems during the guarantee period

In the unlikely event that you encounter any problems with the product during the guarantee period, contact Bristan Care Customer Service on 0330 026 6273 with your proof of purchase and we will work to resolve the problem quickly.

Bristan Care Customer Support

Bristan customers also benefit from the support of Bristan Care, our comprehensive customer support package which offers:

Technical support hotline

(Tel: 0330 026 6273) with access to fully trained advisors who can offer installation advice, talk you through quick maintenance checks, or recommend the best course of action to fix any problems with a product

Expert advice

Find easy to follow 'how to' video guides and technical FAQs online at www.bristan.com. Our guides take you step-by-step through many product installations and you can find plenty of easy guides to quick product fixes and servicing.

Spare parts

We hold thousands of spares and we keep them for discontinued products for over seven years. Spares can easily be ordered online at www.bristan.com and are dispatched the same day.

Expert plumbing engineers

If we can't solve the problem over the 'phone or with a spare part, then we'll send out one of our Bristan Care engineers to take a look. Bristan Care engineers provide free support for products that are within guarantee, but are also available to service products that are out of guarantee for a small charge. For details, please call customer services on 0330 026 6273

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Issue: D3

Bristan Guarantee

At Bristan, we want to make things as easy as possible for our customers. That's why we offer solid guarantees on all our products, effective from the date of purchase, to give you peace of mind.

To start your free guarantee, simply scan the QR code and register your product.

Alternatively, visit www.bristan.com/register to register your product via a computer.

For full guarantee terms and conditions visit, www.bristan.com/guarantees



We Know & We Care

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