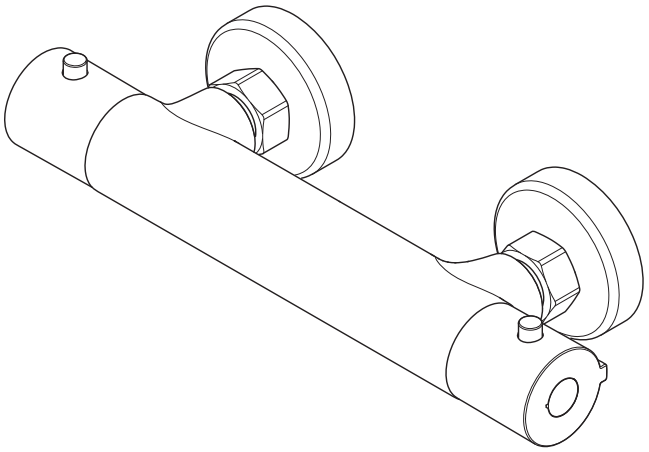
Twyford

Installation Instructions and User Guide

X120 Thermostatic Bar Shower Valve



Model covered: X205012CP

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 Twyford. We have designed this product with your enjoyment in mind. To ensure that it works to its full potential, it needs to be fitted correctly. These fitting instructions have been created to give you all of the information you need and, if you need any further help, please do not hesitate to give us a call on 0844 412 5951.

Need help? Give us a call on 0844 412 5951 and speak to one of our trained advisers.

Important Safety Information

• Please read these instructions thoroughly and retain for future use.

• All products manufactured and supplied by Twyford 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 product safely you must employ the services of an experienced qualified plumber.

• This TMV needs to be installed in accordance with, and meet the requirements of the Water Supply (Water Fittings) Regulations 1999 and Scottish Byelaws 2004.

• Remove all packaging and check there are no missing or damaged parts.

• 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

• ⚠ **Warning:** Before installing the new shower 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 shower valve.

• Fitting isolation valves to the inlet feeds is required for ease of maintenance.

• Access **must** be made available to the shower valve / mixer body for maintenance / servicing purposes.

• ⚠ **Warning:** Do not operate this product if you suspect it is frozen. Do not site the Mixing Valve where it might be subjected to freezing conditions.

• This shower valve **must** not be modified in any way as this will invalidate the guarantee.

General Information

This product has been tested to the Water Regulations Advisory Scheme (WRAS) and satisfies the requirements of the Water Supply (Water Fittings) Regulations 1999 and current bylaws.

For full Installation Requirements & Notes (IRN) please visit www.wras.co.uk/directory.

BS7600 recommends the temperature of stored water should never exceed 65ºC. A stored water temperature of 60ºC is considered sufficient to meet all normal requirements and will minimise the build up of lime scale in hard water areas.

If the shower valve is installed at low pressure (tank fed), then the minimum distance from the highest installed position of the showerhead 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.

This shower valve should be installed in compliance with the Water Supply (Water Fittings) Regulations1999 and the 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	✘

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Product Features

1. On / off control

Turn the handle down to turn on and increase the flow of water.

Press in the button and continue to turn the handle for a greater flow.

Turn the handle upwards to turn off the flow of water.

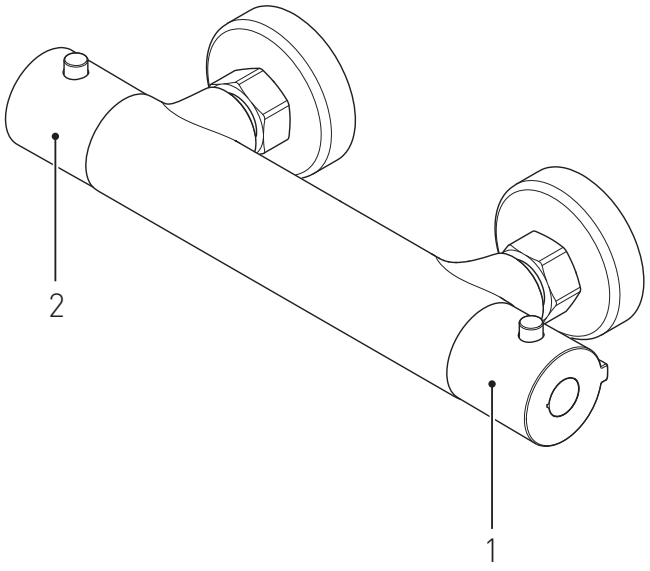
2. Temperature control

Adjustable temperature control.

Turn the handle down for a cooler temperature.

Turn the handle up for a hotter temperature.

Press in the button and continue to turn the handle up for a higher temperature.



Specifications

Inlet connections: 15mm compression with 140-160mm adjustable centres.

Minimum working pressure: 0.5 bar

Maximum working pressure: 5.0 bar
Maximum static pressure: 10.0 bar

Note: Static pressure is the build up of pressure when the valve is closed.

Supply requirements:
Minimum cold water supply temperature: 5ºC.
Maximum cold water supply temperature: 25ºC.
Maximum hot water supply temperature: 80ºC.

Note: The inlet hot water temperature must be at least 10ºC above the required blend temperature (e.g. shower temperature 43ºC: minimum hot water temperature 53ºC).

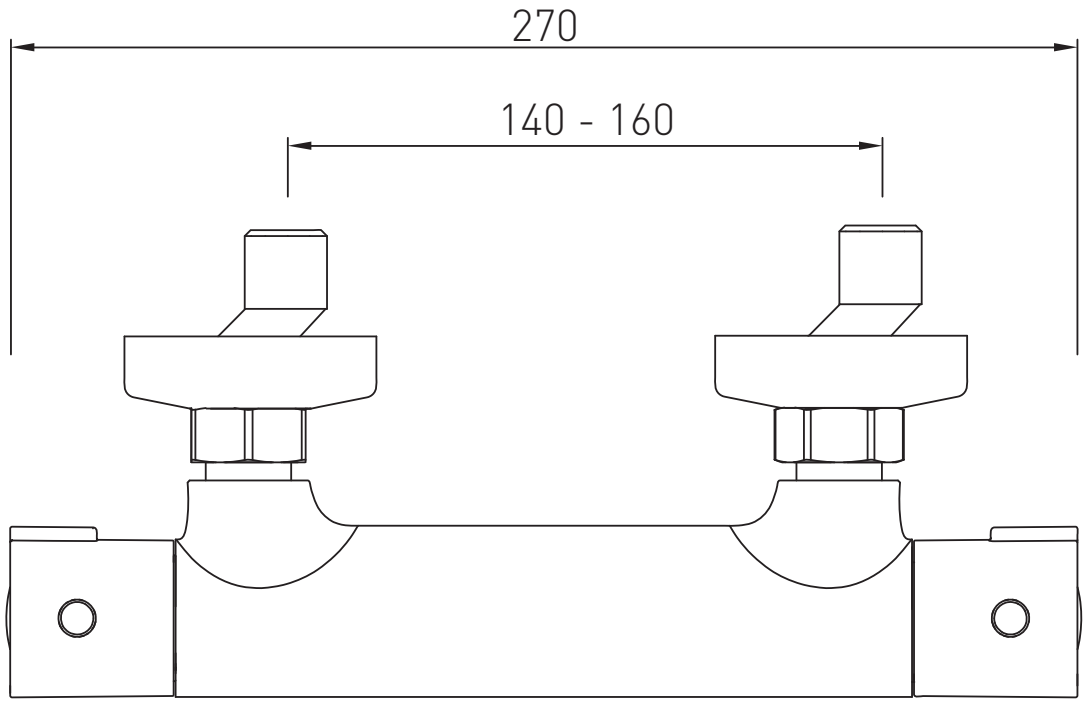
System requirements:
Gravity fed hot & cold (Equal pressures)
Gravity fed hot & mains cold (Differential pressure, maximum ratio 5:1)
Unvented systems
Instantaneous water heater (Combination boiler)
Pumped system

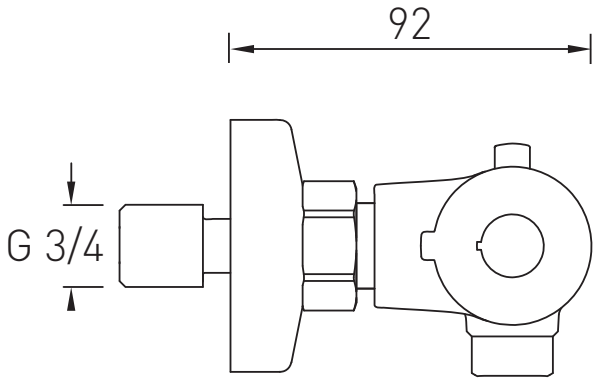
Note: When using a pumped system we recommend that an essex flange is used.

Flow Rates (litres per minute open outlet)

Pressure (Bar)	0.5 bar	1 bar	2 bar	3 bar	4 bar	5 bar
Without Flow Regulator fitted	7.3	11.3	16.4	20.4	24.0	27.0
With 8 l/p/m Flow Regulator fitted	4.9	6.8	7.3	7.5	7.8	8.0

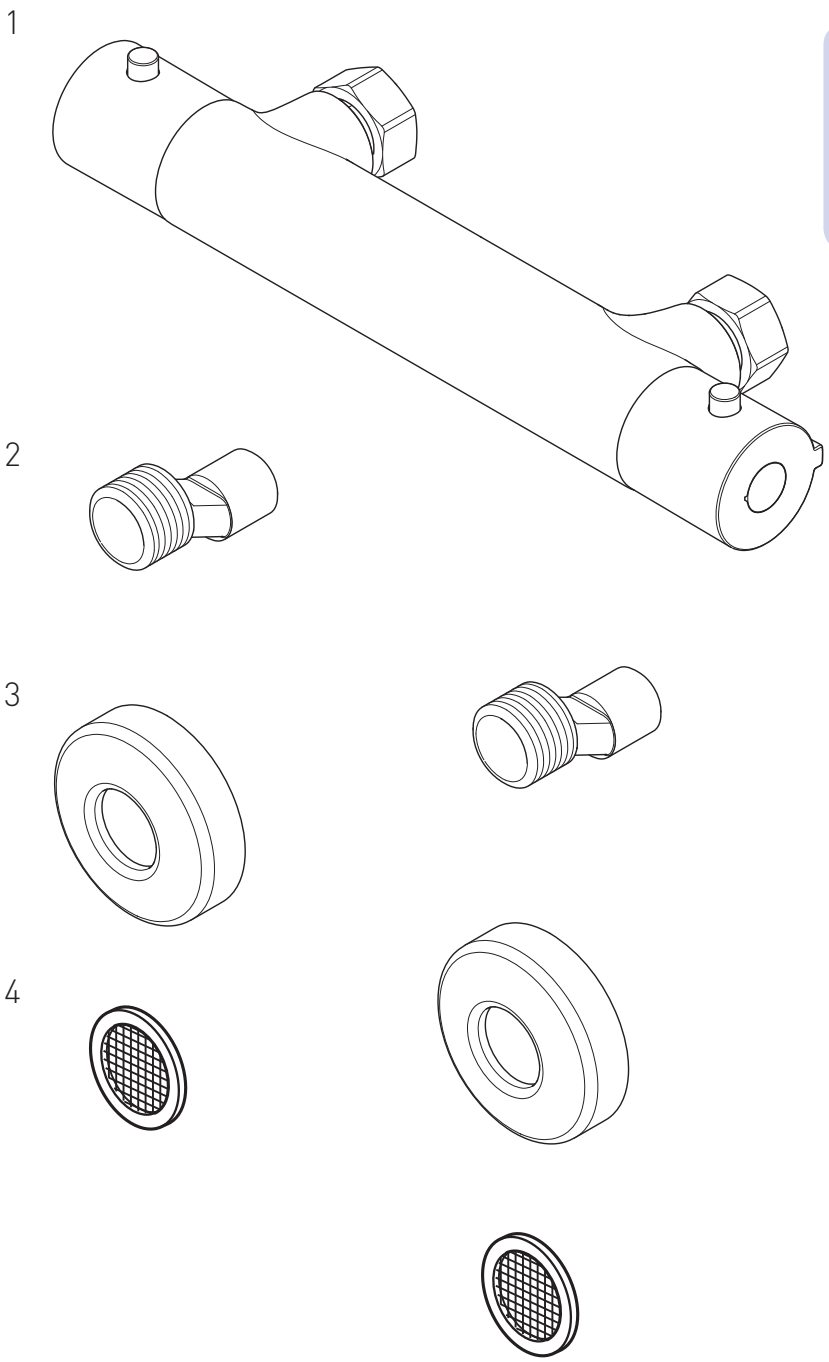
Dimensions





All dimensions are in mm.

Pack Contents



1. Shower Valve x1
2. Cranked connectors x2
3. Shrouds x2
4. Filter Washers x2

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Prior to Installation

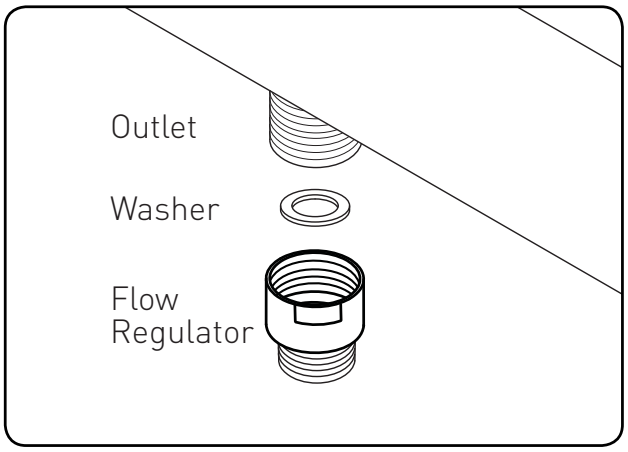
BREEAM Specification

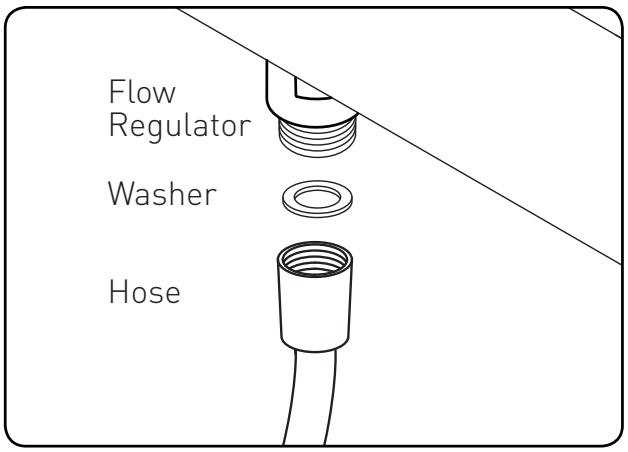
In order for this shower valve to meet the specification requirements of BREEAM an 8 litre per minute flow regulator (XS9008CP - supplied seperatley) must be fitted to the wall outlet.

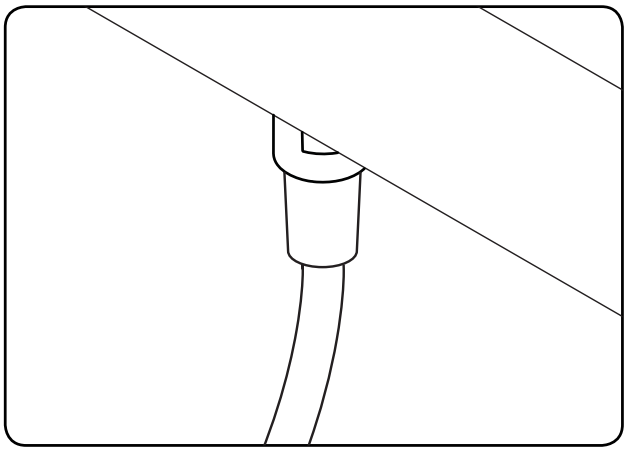
To Fit the Flow Regulator

Screw the flow regulator onto the thread of the shower valve outlet ensuring a suitable sealing washer is used to create a water tight seal.

Screw the shower hose (not supplied) onto the thread of the flow regulator ensuring a sealing washer is used to create a water tight seal.







Installation

1. Position the cranked connectors onto the wall surface and mark their positions ensuring they are level with the use of a sprit level.

Note: The pipe centres are adjustable from 140 - 160 mm.

2. Drill suitable holes in the wall surface at the marked positions for the cranked connectors.

⚠ Warning: Before drilling into walls, check ther 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.

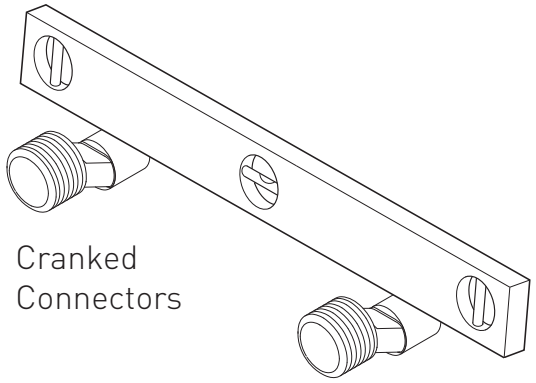
3. Terminate the pipework inside the wall to the cranked connectors and secure using 1/2" BSP female connectors (Not supplied) ensuring the cranked connectors protrude from the wall surface.

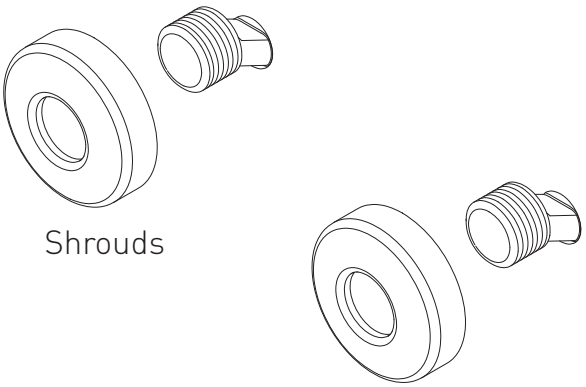
4. Screw the shrouds onto the cranked connectors.

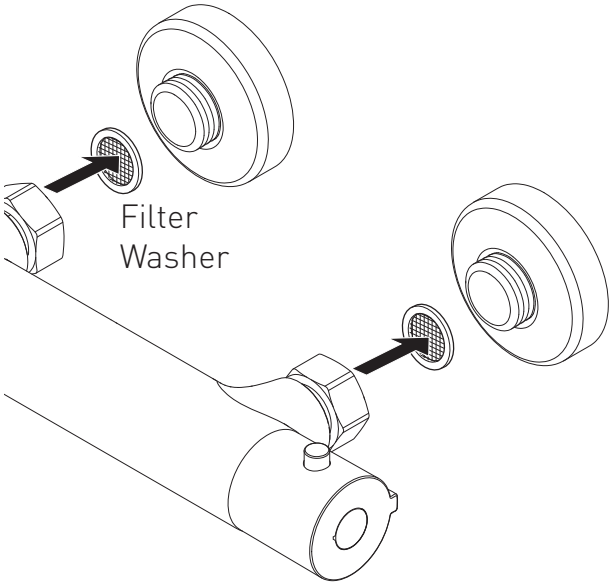
5. Place the filter washers into the valve fixing nuts.

6. Position the shower valve onto the cranked connectors and carefully tighten the fixing nuts (Do not overtighten).
Note: Take care not to damage the finish of the shower valve fixing nuts. Protect the chromium plated surfaces with a cloth.

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







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Operating the Shower

1. On / off control

Turn the handle down to turn on and increase the flow of water.

Press in the button and continue to turn the handle for a greater flow.

Turn the handle upwards to turn off the flow of water.

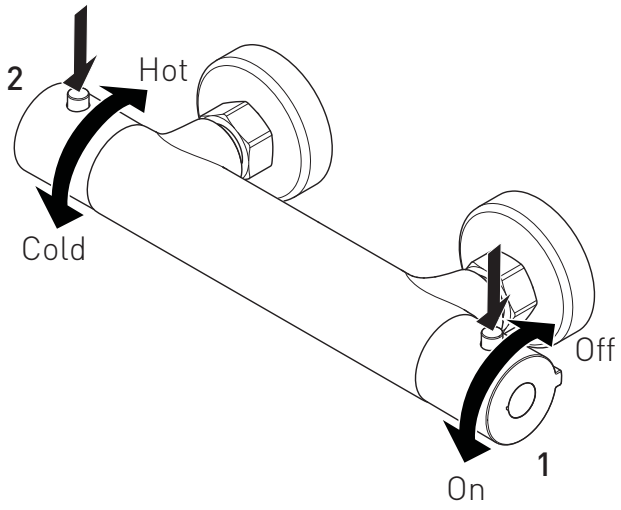
2. Temperature control

Adjustable temperature control.

Turn the handle down for a cooler temperature.

Turn the handle up for a hotter temperature.

Press in the button and continue to turn the handle up for a higher temperature.



Maintenance

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 product 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.

Cartridge Maintenance

We advise that the shower valve is regularly serviced in hard water areas to maintain the flow of water.

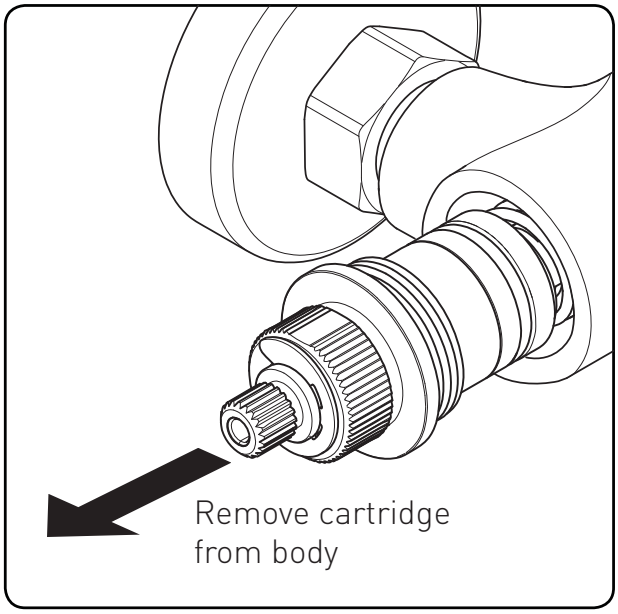
Isolate both hot and cold water supplies to the shower valve by either:

- Turning the water supply off at the mains stopcock or
- Turning off the isolation valves to the shower valve.

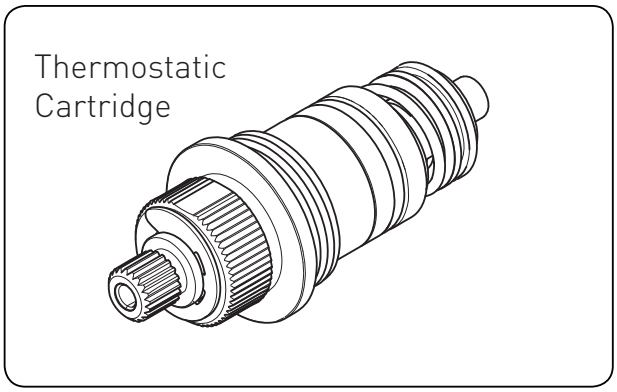
1. Remove the temperature handle and plastic stop.

⚠ **Important:** Take note of the position of the plastic stop and handle - They must be refitted in the same position.

2. Unscrew the shroud from the valve body and remove the locking nut.



3. Unscrew the cartridge out from the valve body and place into a bowl. Carefully add hot water (just off the boil) and vinegar to de-scale. Leave in the solution until the water has cooled and rinse with clean water.



4. Grease the seals with a WRAS approved silicon grease and carefully refit.

5. Refit the temperature stop and handle. Reset the maximum temperature.

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Adjusting the Temperature

Adjusting the Temperature
The shower valve has been factory set to 38ºC with equal (balanced) hot and cold water supply pressures, with the hot water supply at 65ºC.

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

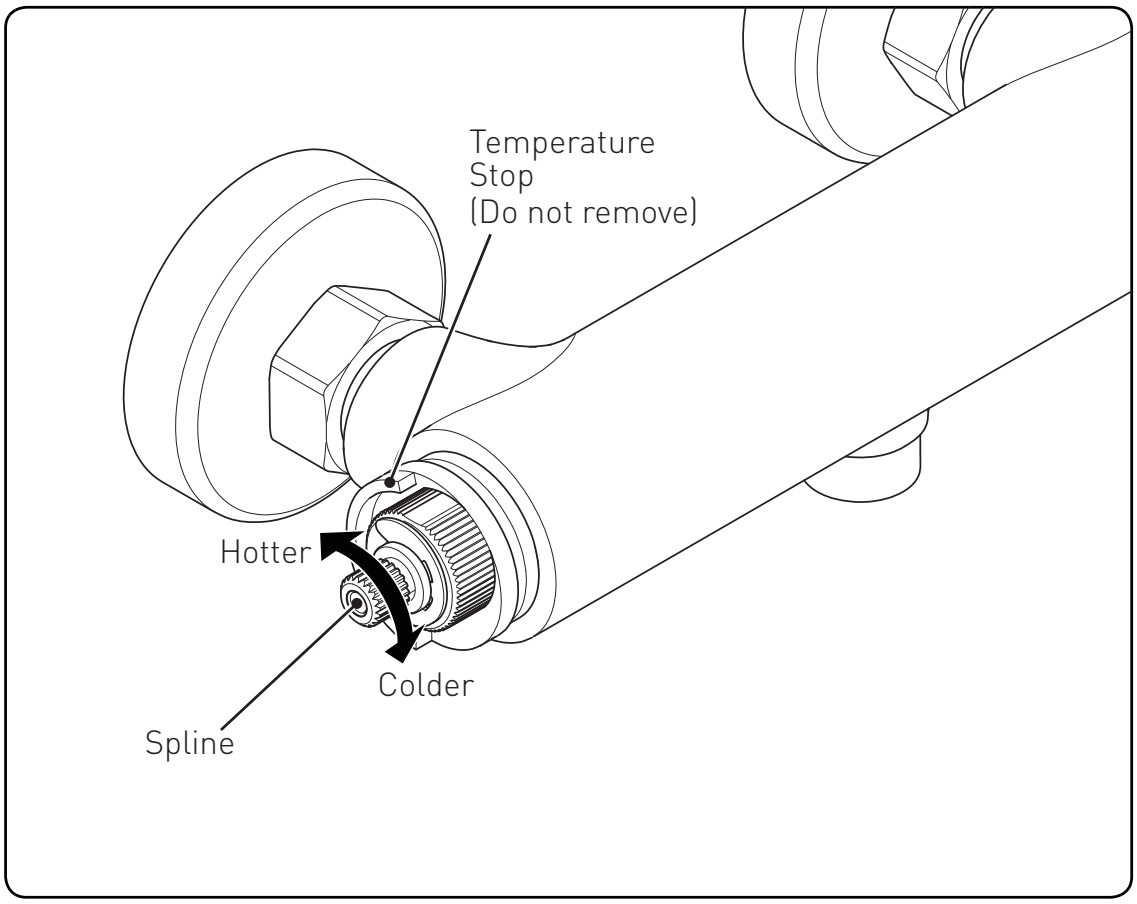
If required the shower valve can be re-calibrated to suit your own temperature requirements.

Set the temperature control to the maximum setting and check the temperature of the water with a thermometer. If the temperature is not correct, re-calibrate the shower valve:

1. Remove the temperature handle but **do not** remove the plastic temperature stop.

2. Turn the spline clockwise to decrease the temperature and anti-clockwise to increase the temperature. Check the temperature and adjust until you achieve the required temperature.

3. Replace the temperature handle ensuring it is fitted back into the maximum position.



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.
	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 6).
	Airlock or partial blockage of the pipework.	Drop handset to lowest position to 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.

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Troubleshooting

Symptom	Cause	Remedy
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 Maintenance section (page 14) before dismantling shower valve.
Maximum water temperature too hot or cold.	Maximum water temperature set incorrectly.	Reset maximum water temperature. Refer to 'Adjusting the Temperature' (page 13)
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 6). Service shower valve as recommended. Refer to Maintenance section (page 12). Refer to 'Adjusting the Temperature' section (page 13).
Water temperature too cold - Maximum water temperature incorrectly set.	Hot water temperature is less than 10ºC 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 (page 12). 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 Twyford, 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. Its also why we offer solid guarantees on all products, effective from the date of purchase, to give you peace of mind.

This Twyford shower is covered by a **5 year guarantee.**

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 products 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-Twyford parts
- 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).

The guarantee does not cover compensation for loss of use of the product or consequential loss of any kind.

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

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

Need help?
If this product does not function correctly when first used, contact **Twyford Customer Service on 0844 412 5951 or 01270 871 480** where our expert team of advisers will be able to offer you help and advice.

Guarantee

Problems during the guarantee period
In the unlikely event that you encounter any problems with the product during the guarantee period, contact **Twyford Customer Service on 0844 412 5951 or 01270 871 480** with your proof of purchase and we will work to resolve the problem quickly.

Technical Support Hotline
(Tel: **0844 412 5951**) 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.

Contact Us
For any queries please contact us or visit our website for further information:

Email:
customerservice@twyfordbathrooms.com

Website:
www.twyfordbathrooms.com

Telephone:
0844 412 5951 or 01270 871 480

Part Number: FI: X205012CP
Issue: D2

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