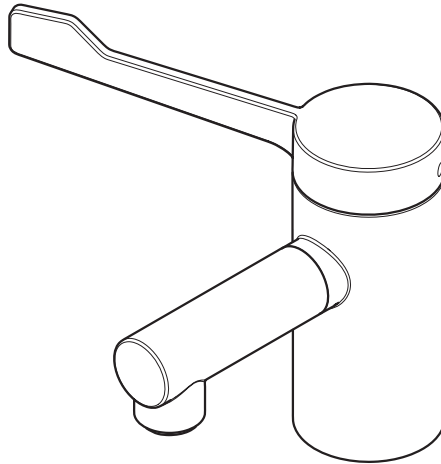


# BRISTAN

## Installation Instructions and User Guide

Solo T3 Thermostatic Basin  
Tap



**Models covered:** SOL02-T3SL &  
SOL02-T3LL

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 0.2 bar, Maximum 5.0 bar.

Maximum static pressure: 10.0 bar.

This product has been tested to the TMV3 scheme for use in Healthcare and Commercial situations and performs to the requirements of NHS Specification D08. It also satisfies the requirements of the water supply (water fittings) regulations 1999 and current bylaws.

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 2 metres to ensure adequate performance.

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

This mixer tap should be installed in compliance with the Water Regulations.

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	X	Heavy Commercial	✓
Light Commercial	X	Health Care	✓

# Specifications

## Specifications

**Inlet connections:** 15mm compression copper connecting pipes.

**Operating pressure range:** Min. 0.2 Bar - Max. 5.0 Bar - Maximum recommended imbalance between hot and cold supply should not exceed a ratio of 5:1.

**Maximum Static Pressure:** 10 Bar

**Maximum outlet temp:** Factory pre-set to 41°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 TMV3 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).

### Flow Regulators

This product is supplied fitted with a yellow 5 l/p/m (Hot) and a Olive 2 l/p/m (Cold) flow regulator which should remain fitted for both high and low pressure systems.

If the flow regulators are replaced they **must** be fitted as below;

Yellow 5 l/p/m - Hot outlet

Olive 2 l/p/m - Cold outlet

# Installation Requirements

This mixer tap 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 mixer tap 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**

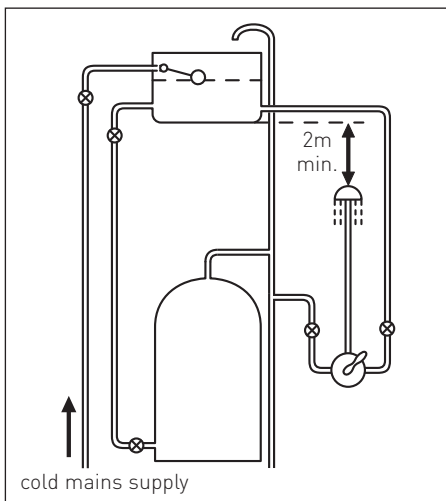
**⚠ Important:** If you install this mixer tap with a gravity fed system, there must be a minimum head (vertical distance) from the underside of the cold water storage tank to the outlet of at least 2 metres .

**Note: Pumped system (with Essex flange)** If you install this mixer 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.

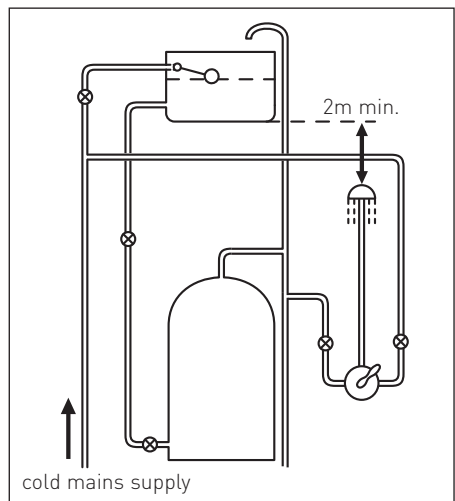
## Flushing Pipe-work

**⚠ Important:** Before connecting the mixer tap (see 'Installation' on page 11), 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 Cold

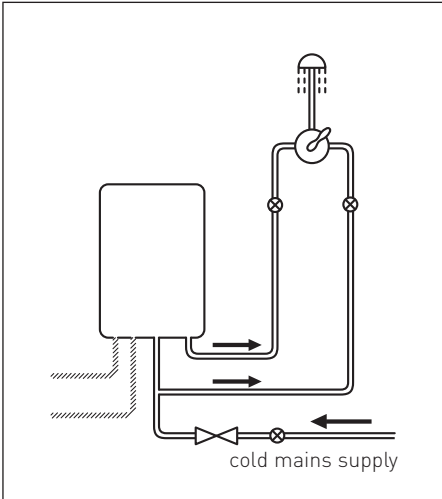


## Gravity Fed Hot and Mains Cold

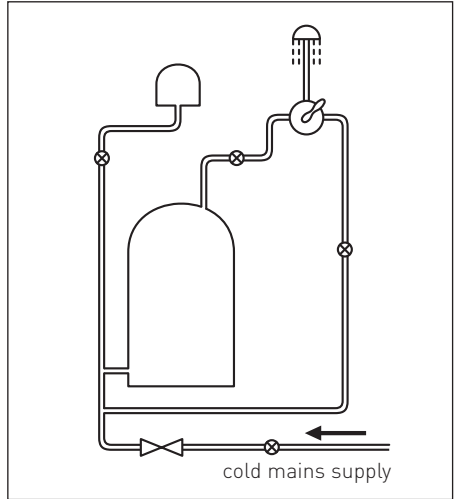


# Installation Requirements

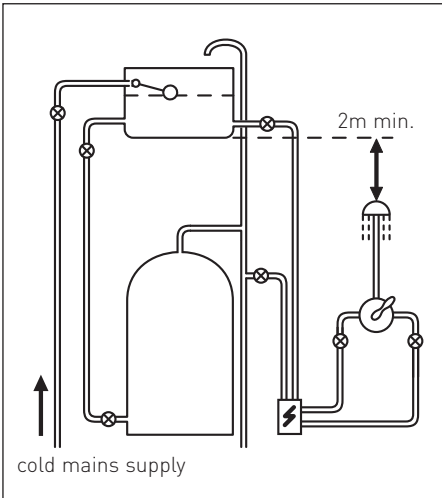
## Instantaneous Water Heater



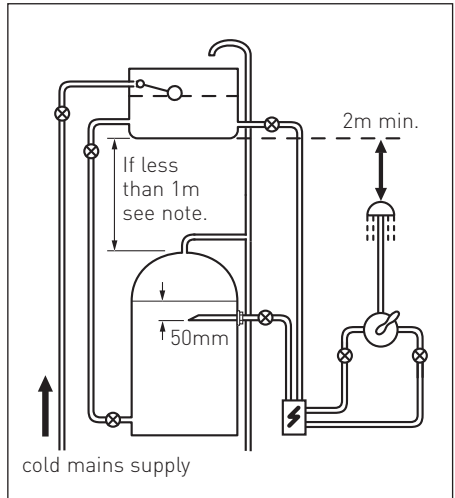
## Unvented System



## Pumped System



## Pumped System (with Essex flange)



**Key:**



Isolating Valve



Reducing Valve



Mixer Tap



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 3 (Thermostatic mixer) valves

In order to give compliance with N.H.S. specification D08 the table below lists the conditions for normal use. These valves will perform adequately outside these parameters, however they cannot be guaranteed by the scheme to operate as Type 3 valves. If they are required to work with other supply conditions an engineer must carry out a risk assessment and satisfy themselves that the valves are suitable for use.

### Normal Conditions of Type 3 valves

	High Pressure	Low Pressure
Maximum Static Pressure (Bar)	10	10
Flow Pressure, Hot & Cold (Bar)	1.0 to 5.0	0.2 to 1.0
Hot Supply Temperature (°C)	52 to 65	52 to 65
Cold Supply Temperature (°C)	5-20	5-20
Minimum Temperature Differential (°C)	10°C	10°C

This valve has been approved for use in the following designations.

Code	Operating Pressure	Application
HP-WE	High Pressure	Wash Basin
LP-WE	Low Pressure	Wash Basin

#### Key:

HP - High Pressure

LP - Low Pressure

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

41°C for wash basins

**The mixed water temperature must never exceed 46°C.**

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

**Note:** For wash basins, washing under running water is assumed.

# Prior to Installation

## Flow Straightener.

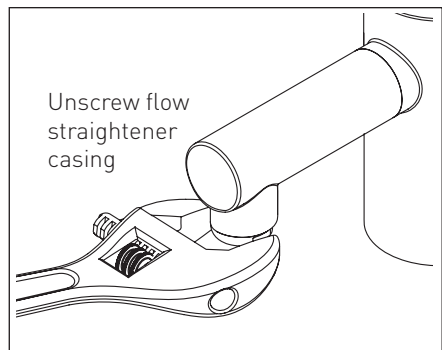
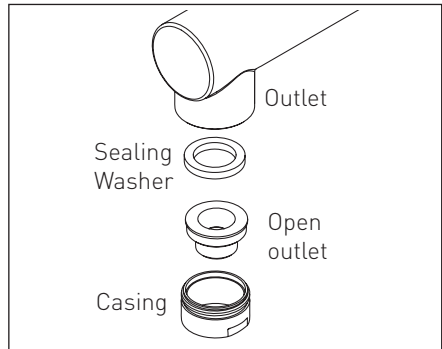
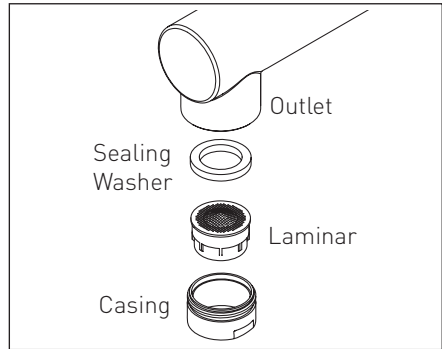
This mixer tap is supplied with a choice of laminar or open outlet flow straighteners.

Both flow straighteners are supplied loose in the box, allowing the installation to be made in line with different site conditions and user preference.

## To Fit the Flow Straightener

Insert the chosen flow straightener into the casing, ensuring the sealing washer is placed on top of the flow straightener.

Using a suitable spanner tighten the casing into the spout outlet.



# Installation

1. Screw the fixing rods into the bottom of the fixing base.

Position the fixing base into the hole in the basin ensuring the rubber washer is fitted between the fixing base and the basin.

2. Slide the metal plate onto the threaded rods under the basin and secure the fixing base to the basin by tightening the fixing nuts onto the fixing rods. Ensure the fixing nuts are tightened fully by using a suitable spanner.

3. Screw the copper connecting pipes into the bottom of the fixing base by **hand only (DO NOT OVERTIGHTEN)**.

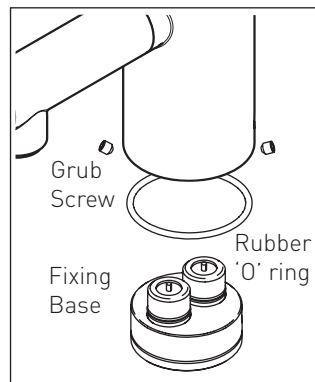
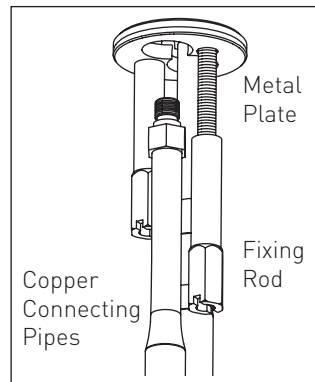
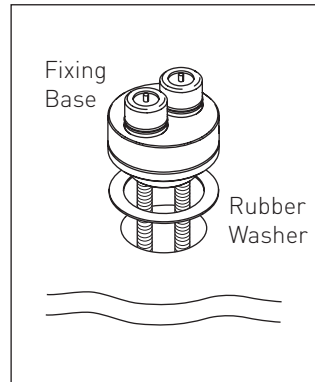
**⚠ Important:** Before connecting the copper connecting pipes to the water supply thoroughly flush through the pipework in order to remove any remaining swarf, solder, etc.

Connect the copper connecting pipes to the water supplies. **Do not turn the water supplies on.**

4. Push the mixer body onto the fixing base ensuring the rubber 'O' ring is fitted into the groove in the bottom of the mixer body. Ensure the mixer body is fitted correctly and tighten the grub screws fully to secure the mixer body in position.

5. Turn on both water supplies, operate the handle in both hot and cold positions, letting the water flow for a few minutes to flush through the system.

6. Check all joints and connections for any leaks.



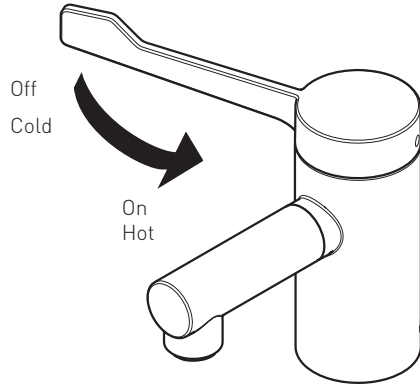
# Operating the Mixer Tap

## On / Off and Temperature Control

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

The water temperature will increase the further the lever is turned.

To decrease the temperature of water turn the lever back clockwise.



# 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.**

It is a requirement that all TMV3 approved valves shall be verified against the original set temperature results once a year. 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 44 °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  $2^{\circ}\text{C}$  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.

# In-Service Testing

## Purpose

The purpose of in service tests is to regularly monitor and record the performance of the thermostatic mixing valve.

Deterioration in performance can indicate the need for service work on the valve and / or water supplies.

## Procedure

Using the same measuring equipment or equipment to the same specification as used in the commissioning section, adjust the temperature of the mixed water in accordance with the manufactures instructions and the requirement of the application, Carry out the following sequence.

- a) Record the temperature of the hot and cold water supplies.
- b) Record the temperature of the mixed water at the largest draw-off flow rate.
- c) Record the temperature of the mixed water at a smaller draw-off flow rate, which shall be measured.

If the mixed water temperature has changed significantly from the previous test results (e.g. >1K), record the change and before re-adjusting the mixed water temperature check:

- a) That any in-line or integral strainers are clean.
- b) Any in-line or integral check valves or other anti-back siphonage devices are in good working order.

- c) Any isolating valves are fully open.

With an acceptable mixed water temperature, complete the following procedure:

- a) Record the temperature of the hot and cold water supplies.
- b) Record the temperature of the mixed water at the largest draw-off flow rate.
- c) Record the temperature of the mixed water at a smaller draw-off flow rate, which shall be measured.
- d) Isolate the cold water supply to the mixing valve and monitor the mixed water temperature.
- e) Record the maximum temperature achieved as a result of (d) and the final stabilised temperature.

- f) Record the equipment, thermometer etc. used for the measurements.

If at step (e) the final mixed water temperature is greater than 41°C and / or the maximum temperature exceeds the corresponding value from the previous results by more than about 2K, the need for service work is indicated.

**Note:** In-service tests should be carried out with a frequency, which identifies a need for service work before an unsafe water temperature can result. In the absence of any other instruction or guidance, the procedure described in Annex F of D 08 may be used.

# In-Service Testing

## Annex F of D 08 (informative)

### Frequency of In-service tests

#### General

In the absence of any other instruction or guidance on the means of determining the appropriate frequency of in-service testing, the following procedure may be used:

- a) 6 to 8 weeks after commissioning carry out the tests in 'In-Service Tests'.
- b) 12 to 15 weeks after commissioning carry out the tests detailed in 'In-Service Tests'.

Depending on the results of the above tests, several possibilities exist:

- a) If no significant changes (e.g. <1K) in mixed water temperatures are recorded between commissioning and 6 to 8 week testing, or between commissioning and 12 to 15 week testing the next in-service test can be deferred to 24 to 28 weeks after commissioning.
- b) If small changes (e.g. 1 to 2K) in mixed water temperatures are recorded in only one of these periods, necessitating adjustment of the mixed water temperature, then the next in-service test can be deferred to 24 to 28 weeks after commissioning.
- c) If small changes (e.g. 1 to 2K) in mixed water temperatures are recorded in both these periods, necessitating adjustment of the mixed water temperature, then the next in-service test should be carried out at 18 to 21 weeks after commissioning.

d) If significant changes (e.g. > 2K) in mixed water temperatures are recorded in either of these periods, necessitating service work, then the next in-service test should be carried out at 18 to 21 weeks after commissioning.

# Maintenance

## Cleaning the Spout / Replacement

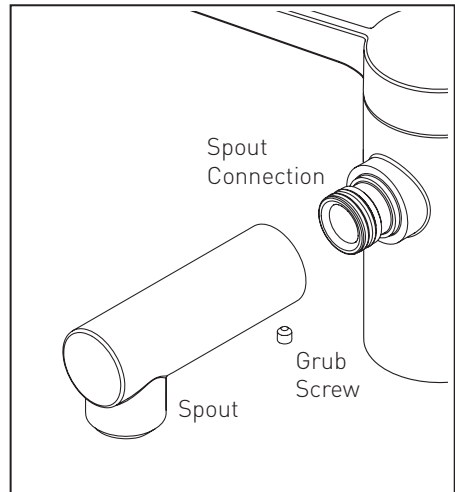
To assist with your infection control regime, this mixer is fitted with a removable spout which should be periodically removed and cleaned in line with your site risk assessments.

Replacement spouts are available if required in order to minimise down-time for the mixer during this process.

## 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.





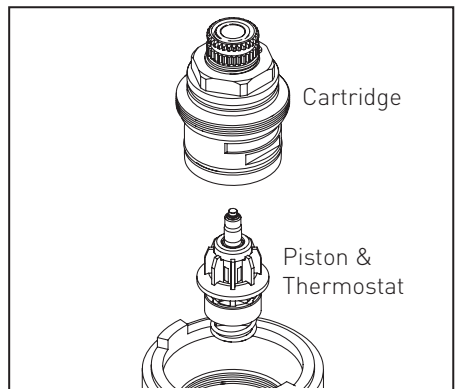
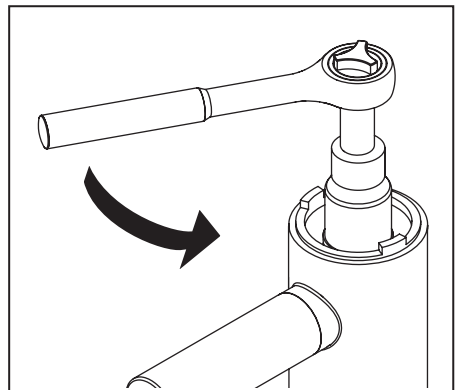
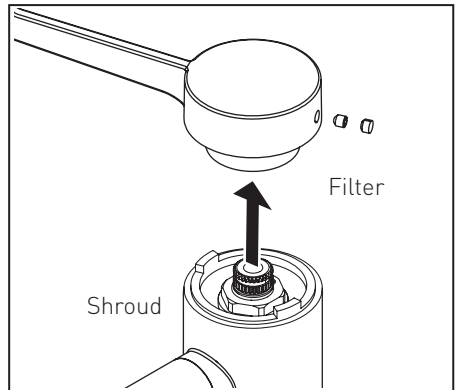
# Maintenance

## Cartridge Maintenance

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

### Isolate both hot and cold water supplies to the mixer tap

1. Remove the control handle lever, remove the cap and undo the screw and remove the lever.
2. Unscrew the cartridge nut anti-clockwise using a 30mm socket and remove the cartridge from the TMV body.
3. Place the cartridge in a bowl and carefully add hot water (just off the boil) and vinegar to de-scale the cartridge. Leave in the solution until the water has cooled and rinse with clean water.
4. Grease the seals with a silicon grease supplied by Bristan (part number: SP-495-0002) and carefully refit the cartridge.
5. Replace the lever handle, tighten the grub screw and push-fit the cap into position.



# Maintenance

## Non Return Valve Maintenance

**Isolate both hot and cold water supplies to the mixer tap.**

Loosen both grub screws on either side of the base of the mixer body and pull the mixer body off the fixing base.

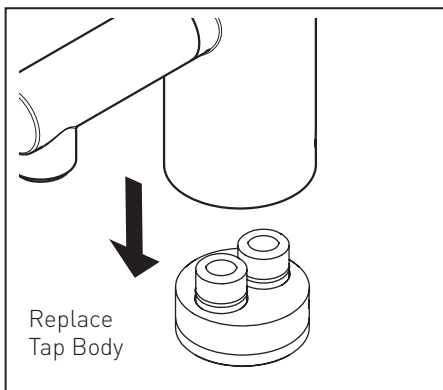
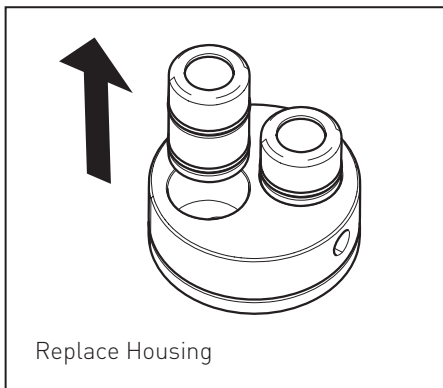
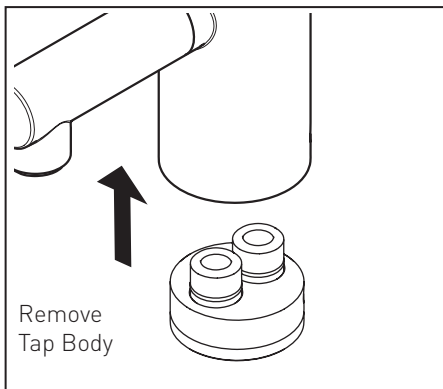
Using a suitable set of grips pull the NRV housing out from the fixing base.

Replace the complete NRV housing using a new complete spare housing supplied by Bristan.

Grease both 'O' rings on the housing using a silicon grease and insert the new housing into the fixing base and push firmly into position.

**Note:** Always replace both housings.

Push the mixer body back onto the fixing base ensuring it is fitted correctly and tighten both grub screws to secure the mixer body in place.



# Maintenance

## Adjusting the Temperature

The mixer tap 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 mixer tap can be re-calibrated to suit your own temperature requirements.

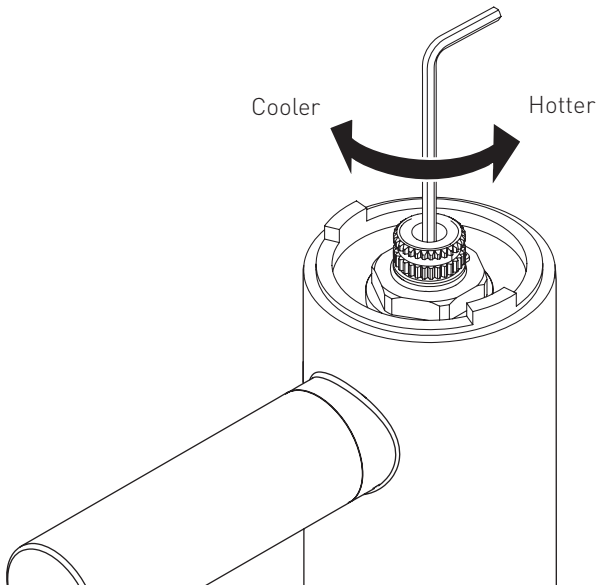
Turn the temperature control anti-clockwise (hotter) fully until it stops and check the temperature of the water with a thermometer. If the temperature is not correct, re-calibrate the mixer tap:

1. Turn the flow of water on.
2. Remove the temperature control lever. Remove the cap, undo the grub screw and carefully remove the lever handle.
3. Insert a 2.5mm hexagonal key into the temperature control screw, located at the centre of the cartridge spindle.

Turn clockwise to decrease the temperature and anti-clockwise to increase the temperature.

Check the temperature and adjust until you achieve the required temperature.

4. Replace the handle ensuring it is in the same position as when removed.
5. To finish, tighten the grub screw and push-fit the cover cap into position.



# Troubleshooting

Symptom	Cause	Remedy
No flow or low flow rate and / or varying temperatures.	Partially closed stop or service valve in water supply pipework to the mixer tap.	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 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 mixer.
	Make sure the maintained inlet pressures are nominally balanced and sufficient.	Refer to Installation Requirements section (pages 8-11).
	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 mixer tap.	Check hot and cold feeds (the valve will shut down if either the hot or cold supply fails).
Maximum water temperature too hot or cold.	Maximum water temperature set incorrectly.	Reset maximum water temperature.  Refer to 'Commissioning' (page 13)  Refer to 'Adjusting the Temperature' (page 19).

# Troubleshooting - cont.

Symptom	Cause	Remedy
Outlet water temperature too hot / cold.	Inlet filter is partially blocked.	Check insert filters for any blockages and clean as necessary.
	Installation conditions outside operating parameters.	Refer to Installation Requirements section (pages 6-9). Service mixer valve as recommended. Refer to Maintenance section (pages 16-19). Refer to Adjusting the Temperature section (page 19).
Water temperature too cold.	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 cartridge inlet filters and clean or replace. Refer to Maintenance section (page 16-19). Contact the boiler manufacturer.
	Instantaneous water heater not igniting because water pressure is too low.	Increase water pressure through system. Contact the boiler manufacturer.
Only hot or cold water from mixer valve outlet.	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.
	Inlet filter is partially blocked.	Clean or replace, flush through pipework before refitting.

# 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.

All Bristan Commercial Mixer Taps are covered by a 1 year guarantee. This also includes 1 year labour cover 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 0844 701 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 0844 701 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: 0844 701 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](http://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](http://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 0844 701 6273.

Part Number: FI SOL02
Issue: D1

# BRISTAN

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Web: [www.bristan.com](http://www.bristan.com)  
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A Masco Company

## Useful contact details:

Customer Service:

**0844 7016273**

Customer Service Email:

**[Customercare@bristan.com](mailto:Customercare@bristan.com)**

Customer Service Fax:

**0844 7016275**

Reception:

**0844 7016274**

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