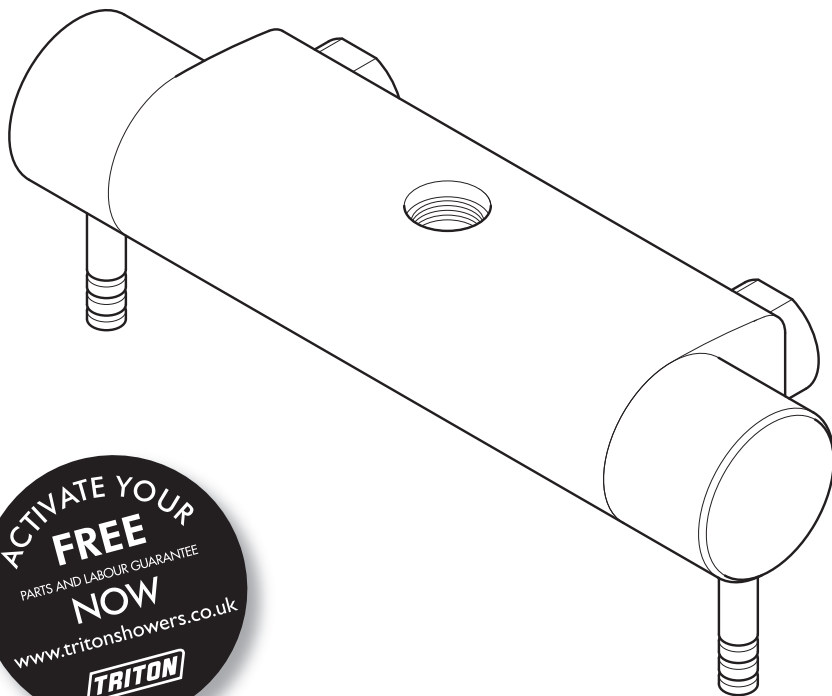


TRITON

THAMES
thermostatic bar mixer shower with diverter



**Installation and
operating instructions**

INSTALLERS PLEASE NOTE THESE INSTRUCTIONS ARE TO BE LEFT WITH THE USER

CONTENTS

Page

MAIN COMPONENTS.....	1
INTRODUCTION.....	2 - 3
TYPICAL DOMESTIC INSTALLATIONS.....	4 - 6
INSTALLATION.....	7 - 11
Preparing the mixer valve	7
Siting of the shower.....	7
Supply pipework.....	7
Straight fittings.....	8
Making good.....	9
Flow regulation.....	9
To fit the flow regulator	9
Fitting the mixer.....	9
FITTING THE MIXER CONTROLS.....	10
Fitting the riser pipe/fixed head	10 - 11
Leak testing the mixer	11
COMMISSIONING.....	11 - 12
TEMPERATURE ADJUSTMENT RANGE.....	12
Recommended outlet temperatures.....	12
Adjusting the maximum temperature stop setting	13
Operating the shower (Diverter).....	13
Dimensions.....	14
Spare parts	15 - 16
APPROVALS	17
FLOW CHART	17
MAINTENANCE	18
Fault Finding.....	19 - 20
Guarantee, service policy, etc.....	rear cover

To check the product suitability for commercial and multiple installations, please contact Triton's specification advisory service before installation.

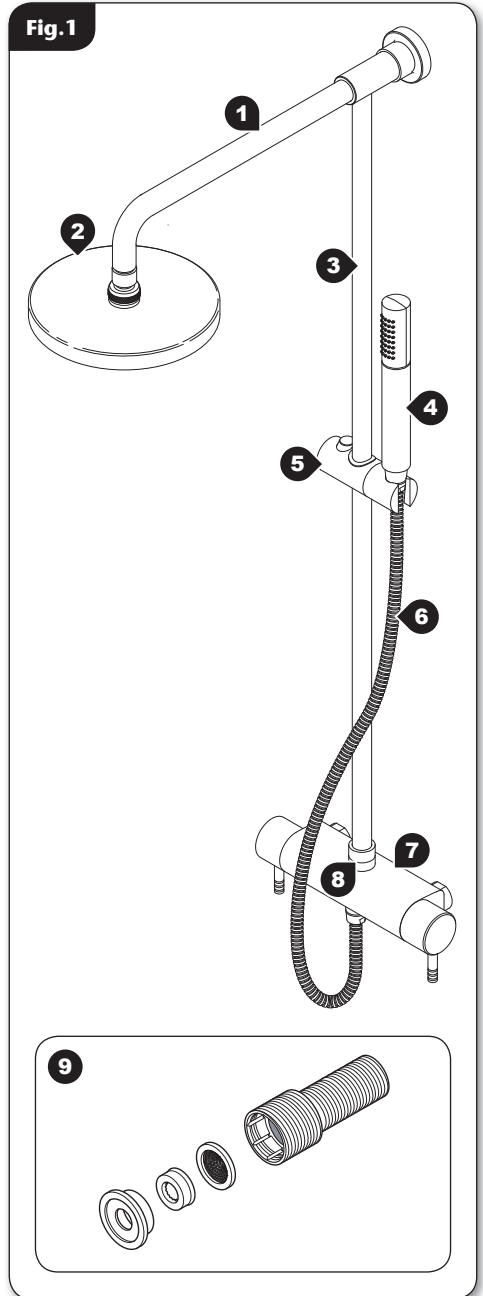
Telephone: 0844 980 0730

Facsimile: 0844 980 0744

E mail: technical@tritonshowers.co.uk

MAIN COMPONENTS

1. Fixed spray arm
 2. Fixed showerhead
 3. Rigid riser rail pipe
 4. Handset
 5. Handset holder
 6. Hose
 7. Thames thermostatic mixer valve
 8. Collar & outlet assembly
 9. Straight connector – x2
- Arm mounting plate (*not shown*)



All dimensions listed in this fitting book regarding the product and installation are approximate.

INTRODUCTION

This book contains all the necessary fitting and operating instructions for your mixer shower. Please read them carefully and read through the whole of this book before beginning your installation.

The shower installation must be carried out by a suitably competent person and in sequence of this instruction book.

Care taken during the installation will give a long and trouble free life from your mixer shower.

SITE REQUIREMENTS

The installation must be in accordance with water supply (water fittings) regulation 1999 and/or local Bylaws.

Water pressure requirements

Running water pressure:

Low pressure*	- 0.1 bar min. 1.0 bar max.
High pressure	- 0.5 bar min. 5.0 bar max.

Maximum static water pressure:

Low & High pressure	- 10 bar
---------------------	----------

*This mixer shower is designed for high pressure systems found in the UK, but can be installed with low pressure gravity water systems with reduced flow rates.

For effective operation of the internal seals, the maximum static pressure must not be exceeded.

Pressure reducing valve

On sites where the running pressure is above 5 bar, the use of a suitably sized pressure reducing valve fitted in the cold mains supply pipe work can provide nominally equal pressures at the mixer shower.

Water minimum flow rate

For best performance within the specified running pressure range a minimum flow of 8 litres per minute should be available to both inlets.

Water temperature requirements

Recommended maximum:	= 65°C
Minimum hot water temperature:	= 55°C
Maximum cold water temperature:	= 25°C

Water temperature adjustment and thermal safety

The mixed water temperature can be adjusted from cold through to a top limit which must be preset during installation with full anti-scald protection throughout the range (35°C to 40°C) providing the hot water temperature at the inlet remains 10°C above the outlet temperature.

Should there be a loss of flow to either incoming supply then- water from the shower will stop or be reduced until both supplies are restored.

SAFETY WARNINGS

- DO NOT** choose a position where the shower could become frozen.
- DO NOT** connect this mixer shower to any form of tap or fitting not recommended by the manufacturer.
- DO NOT** allow the inlet pressure or flow rates to operate outside the guidelines laid out in 'site requirements'.
- DO NOT** connect the mixer shower to a gravity hot supply and a mains cold supply (or vice versa).

PLUMBING REQUIREMENTS

DO NOT use jointing compounds on any pipe fittings for the installation,

DO NOT solder fittings near the mixer unit as heat can transfer along the pipework and damage the mixer valve.

DO NOT subject the unit to a water temperature above 80°C during installation, use, maintenance or disinfection.

IMPORTANT:

- The layout and sizing of pipework **MUST** be such that nominally equal inlet supply pressures are achieved and the effects of other draw-offs are minimised.
- The pipe-work should be installed such that other taps and appliances being operated elsewhere on the premises do not significantly affect the flow
- When connecting pipe-work avoid using tight 90° elbows; swept or formed bends will give the best performance.
- The hot water pipe entry **MUST** be made to the left-hand side inlet, marked HOT, 'H' or with a red/orange label.
- Suitable isolating valves (complying with Water Regulations and Bylaws) **MUST** be fitted on the hot and cold water supplies to the shower as an independent means of isolating the water supplies should maintenance or servicing be necessary.
- It is preferable to flush the pipe-work to clear the system of debris and check for leaks before connecting to the mixer.
- The mixer inlets contain removable filters that may become blocked if debris is not flushed through before fitting.

(Commercial applications)

- It is recommended that for all commercial applications, easily accessible, in-line filters are used to aid maintenance.

Hard water areas

- a. If it is intended to operate the shower in areas of hard water (above 200-ppm temporary hardness), a scale inhibitor may have to be fitted. For advice on the scale inhibitor, please contact Customer Service.
- b. For best performance the showerhead **MUST** be regularly cleaned to remove scale and debris.

WATER SYSTEM REQUIREMENTS

This mixer shower is suitable for:

- Gravity water systems
- Pumped gravity systems.
- Fully modulating type combination boilers
- Multi-point hot water heaters.
- Thermal storage,
- Unvented systems

When installing this mixer with a Combination or multi-point boiler, it may be necessary to install flow regulation.

Check that the appliance is capable of delivering hot water at a minimum switch-on flow rate of 3 litres per minute. At flow rates between 3 and 8 litres per minute, the appliance **MUST** be capable of raising the water temperature to 52°C (minimum).

Water temperature at the inlet of the mixer valve **MUST** remain relatively constant when flow rate adjustments are made (refer to the appliance-operating manual to confirm compatibility with this mixer shower).

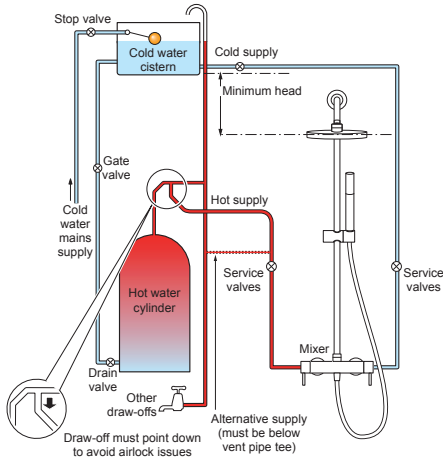
Where thermal store systems and instantaneous gas water heaters are used, if excessive draw-off take place the appliance may not be able to maintain an adequate output temperature. This could result in the shower temperature becoming noticeably cooler.

Flow regulators can be fitted with high-pressure water systems to reduce flow rate and assist economy.

The hot supply temperature **MUST** remain a minimum of 10°C hotter than the required blend temperature for optimum performance.

*Fig.2

*(diagrammatic view – not to scale)



TYPICAL DOMESTIC INSTALLATIONS

Domestic gravity fed systems (fig.2)

The shower control **MUST** be fed from a cold water cistern and hot water cylinder providing nominally equal pressures. There **MUST** be a minimum of one metre head of water. The minimum head distance is measured from the base of the cold water cistern to top of the showerhead.

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

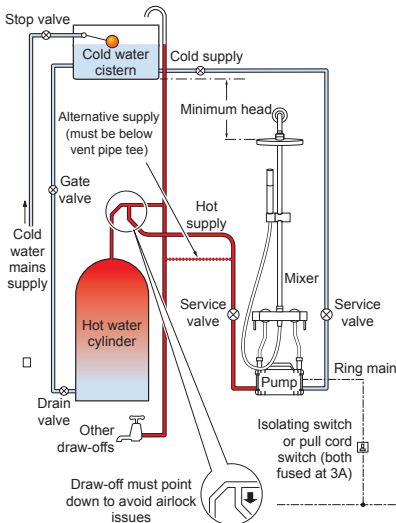
Pumped gravity fed systems (fig.3)

The shower control **MUST** be fed from a cold water cistern and hot water cylinder providing nominally equal pressures.

The mixer unit may be used with a gravity fed system with a pump to boost pressures as shown; please refer to the pump installation guide to establish the minimum head requirements for automatic operation of the pump

*Fig.3

*(diagrammatic view – not to scale)



Instantaneous gas-heated systems, e.g. combination boilers (fig.4)

The shower control **MUST** be installed with a multi-point gas water heater or combination boiler of a fully modulating design (i.e. to maintain relatively stable hot water temperatures).

A drop tight pressure reducing valve **MUST** be fitted if the supply pressures exceed 5 bar running.

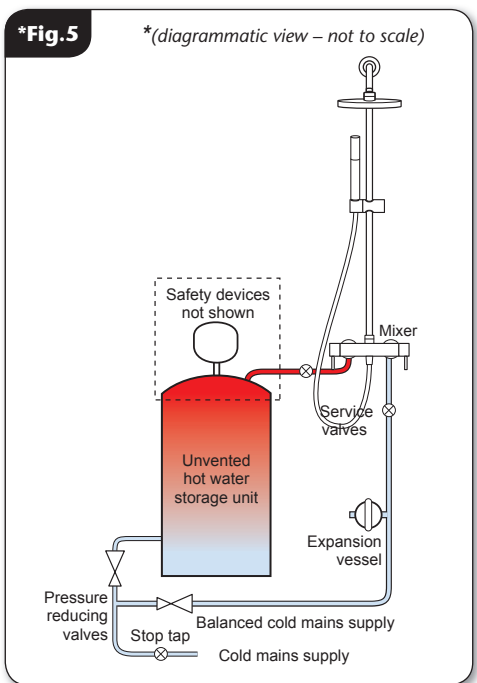
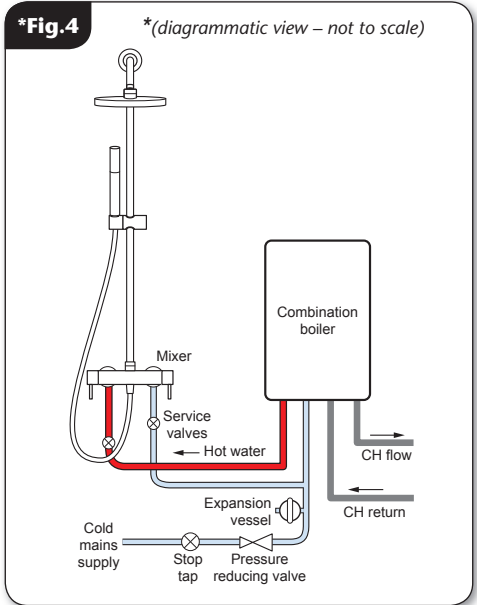
An expansion vessel **MAY** be fitted, and regularly maintained, to prevent the shower mixer being damaged by excess pressures. This may already be installed within the boiler (check with manufacturer) and is in addition to the normally larger central heating expansion vessel.

Unvented mains pressure systems (fig.5)

The shower control can be installed with an unvented, stored hot water cylinder.

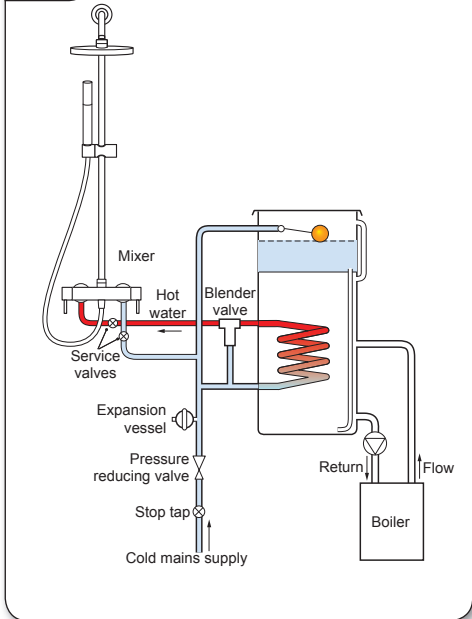
For systems with no cold water take off after the appliance reducing valve, it will be necessary to fit an additional drop tight pressure-reducing valve when the mains pressure is over 5 bar. The drop tight pressure reducing valve **MUST** be set at the same value as the unvented package pressure reducing valve.

Note: An additional expansion vessel may be required if a second pressure-reducing valve is installed. This does not apply to packages with a cold take off after the pressure-reducing valve to the cylinder.



*Fig.6

*(diagrammatic view – not to scale)



Mains pressurised thermal store systems (fig.6)

Packages of this type, fitted with a tempering valve (blender valve) can be used. A drop tight pressure reducing valve **MUST** be fitted if the supply pressures exceed 5 bar running.

An expansion vessel **MUST** be fitted, and regularly maintained, to ensure, the unit, is not damaged by excess pressures. This may already be installed externally or internally within the thermal store (check with thermal store manufacturer).

INSTALLATION

PREPARING THE MIXER VALVE

Check the contents to make sure all items are present.

Before starting, make sure all of the openings on the valve are carefully covered to stop ingress of any debris, etc. while routing the supply pipework.

The shower valve is suitable for exposed installation onto:

- Solid wall
- Stud partition wall
- Dry lined wall
- Laminate cubicle or panel.

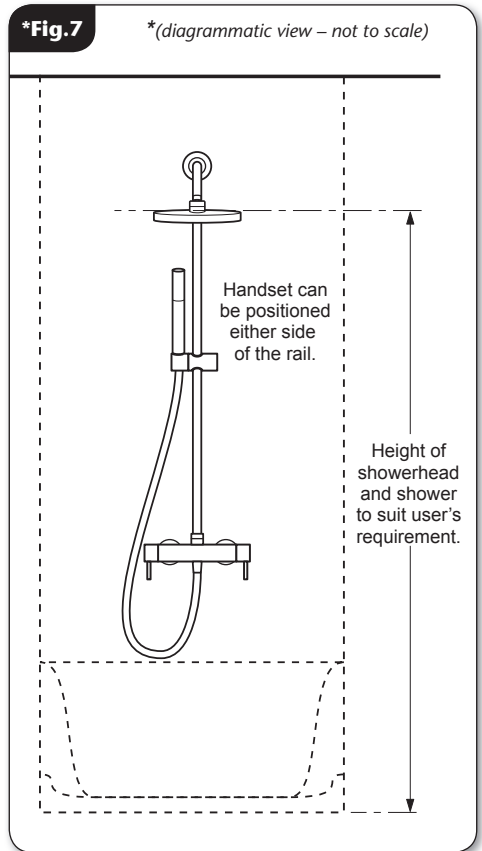
SITING OF THE SHOWER & ACCESSORIES

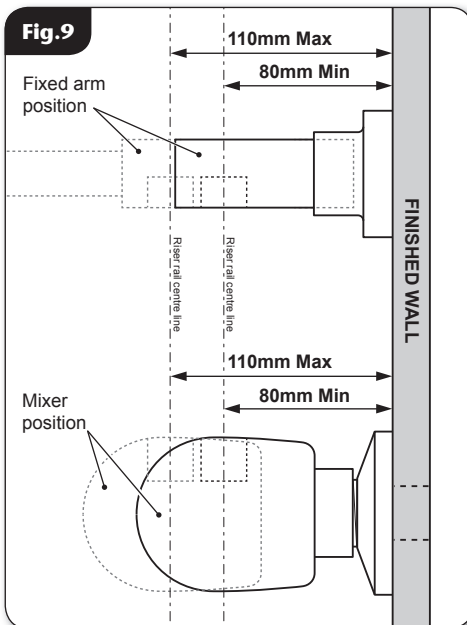
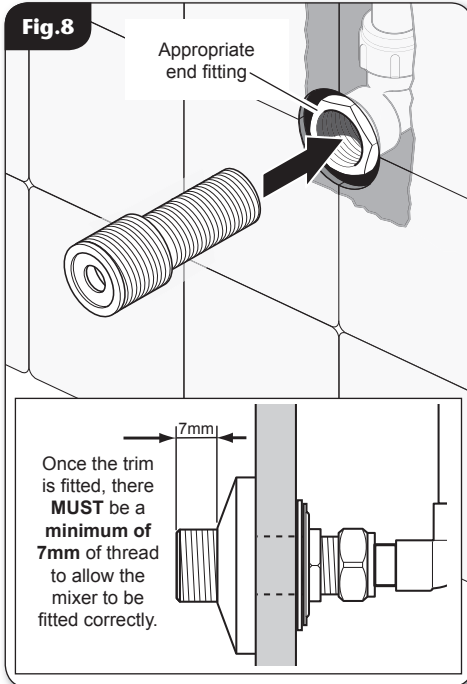
Refer to **(fig.7)** for correct siting of the shower.

The mixer valve should be positioned, as detailed, with all controls within comfortable reach of the user.

The handset can be positioned on either side of the riser rail pipe.

The valve must be installed in a position that allows for easy access for future maintenance and commissioning.





***IMPORTANT!**

BEFORE FIXING the supply pipework within the wall, refer to the '**SUPPLY PIPE WORK**' and '**STRAIGHT FITTINGS**' sections.

See **figures 8** to ensure the **MINIMUM of 7mm of thread is available** once the cover trims are fitted.

THIS IS REQUIRED TO ALLOW THE CORRECT FITTING OF THE MIXER VALVE.

***SUPPLY PIPE WORK**

- Complete the pipework to the shower area having decided on the position of the shower and direction of pipe entry (for example rising, falling or rear entry)

The hot and cold water pipes should be securely attached within the wall or panel to support the valve and prevent movement after installation.

Pipe fitting depth should be checked in conjunction with the information given in **(fig.8)** - a **MINIMUM of 7mm of thread MUST be available** once the Straight Fitting is secured into the wall end fitting and the cover trim has been fitted. This is to allow the mixer to be fitted correctly. Inlet pipe centres **MUST** be 150mm apart.

***STRAIGHT FITTINGS**

The supply pipes can be routed from the side, rising, rear or falling and must end in suitable fittings **(fig.8)** to accept the long thread connectors.

The straight connectors can be used to connect to 1/2" BSP female elbow fittings in solid wall installations. The inlet centres on the shower valves must be aligned horizontally and centred to 150mm.

The hot and cold supply pipes **MUST** be anchored rigidly to support the valve and stop any movement after installation.

IMPORTANT: *The distance from the finished wall to the centre of the mixers top outlet **MUST** be a **MINIMUM of 80mm - MAXIMUM of 110mm.** This is the Minimum and Maximum the fixed arm should be altered **(fig.9)**.*

MAKING GOOD

- Make good the wall and complete the tiling.

Note: *It is advised to use a suitable sealer around the variable connector where it enters the wall to stop water ingress.*

- Screw the supplied cover trims onto the fittings until tight to the wall (**fig.10**).

FLOW REGULATION

IMPORTANT: *Make sure that all supply pipework has been flushed through before fitting the mixer and flow regulators.*

Flow regulators are supplied for use with high-pressure water systems. They may be fitted with any of the systems listed to reduce flow rate and assist economy.

TO FIT THE FLOW REGULATORS

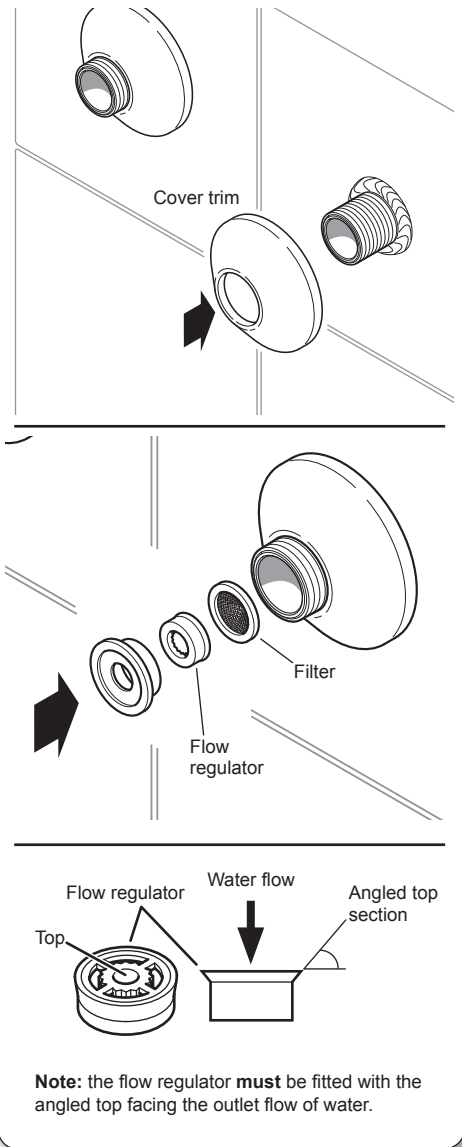
If required, fit the mesh filter, the flow regulator and end cap into the outlet of the straight fittings as shown in (**fig.10**).

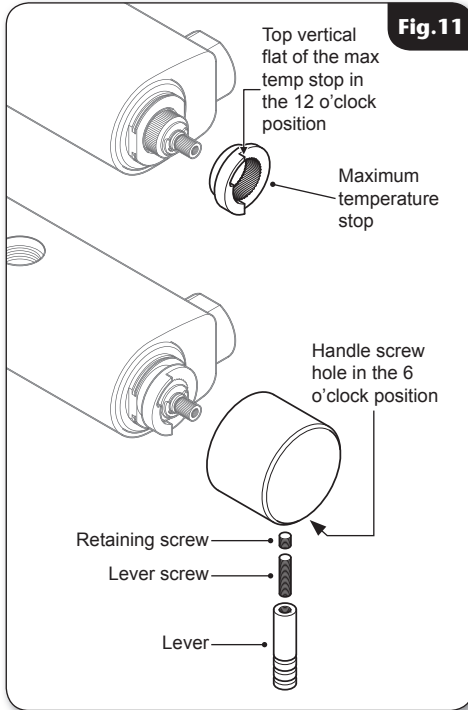
FITTING THE MIXER

IMPORTANT: *Make sure that all supply pipework has been flushed through before fitting the mixer.*

- Offer the shower valve up to the fittings.
- Check that the sealing washers are in place.
- Screw the unions onto the fittings.
- Fit the mixer controls (**fig.11 & 12**) and carry out the commissioning procedure.

Fig.10





FITTING THE MIXER CONTROLS

The mixer controls will need to be fitted before commissioning can be carried out.

Temperature control

- Fit the maximum temperature stop. The orientation is shown in **(fig.11)**.
- To fit the temperature control (right hand side), position the handle screw hole in the 6 o'clock position. Once in place, fit the retaining screw, lever screw and lever **(fig.11)**.

Flow/Diverter control

- To fit the flow/diverter control (left hand side), position the handle screw hole in the 6 o'clock position. Once in place, fit the retaining screw, lever screw and lever.

FITTING THE RISER PIPE/FIXED HEAD

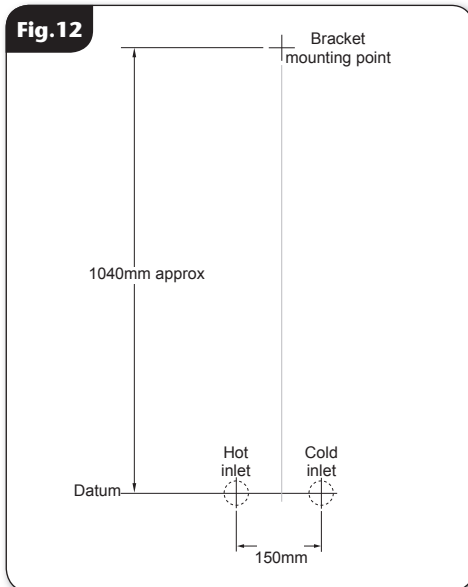
- Mark the centre hole for the fixed head mounting bracket at a height of 1040mm (approx) from the inlet datum **(fig.12)**.

Note: *The elongated hole in the mounting bracket allows for a small amount of adjustment.*

- Drill and plug the wall. *(An appropriate drill bit should be used. If the wall is brick, plasterboard or a soft building block, appropriate wall plugs and screws should be fitted).*
- Secure the arm mounting plate to the wall.
- If the handset holder is required, depress the button on the handset holder **(fig.13)**, slide the holder onto the pipe. The threaded section of the riser pipe should be at the top.
- Screw the fixed showerhead arm to the top of the riser pipe.

PLEASE NOTE: *If the mixer is supplied with the fixed riser kit and the kit is to be used, it will be necessary to remove the outlet adapter and replace it with the collar and adapter assembly supplied with the riser kit.*

- Install the adaptor into the top outlet of the mixer. Slide the base of the riser pipe into the adaptor **(fig.14)**, making sure the sealing washer and locking collar are in place. Do not fully tighten the collar at this time.



- Fit the rear section of the fixed arm over the mounting plate, but do not fully tighten the grub screw at this time. (fig.15).
- Adjust the riser pipe and fixed arm position to suit.
- Once correctly positioned, lock the diverter collar. Finger tight should be sufficient.

Note: *There is a small amount of depth adjustment within the collar. Adjust the depth of the bracket before securing in place to the mounting plate.*

- Using a suitable allen key, secure the fixed arm in place by tightening the locking screw.

LEAK TESTING THE MIXER

IMPORTANT: *Flush out the pipework in accordance with Water Regulations and Bylaws.*

- Fit the hose to the outlet (without the showerhead fitted) and direct it towards the waste outlet.
- Open the water isolating valves to the shower and check for leaks.
- If any leaks are found, rectify them before carrying out the commissioning procedure.

Fitting the fixed showerhead

- Screw the fixed head to the fixed spray arm. Make sure the sealing washer is in place and screw tight to seal the joint.

Fitting the hose and handset

- Connect the one end of the flexible hose to the bottom outlet connector on the mixer valve and the other end to the handset, making sure that the seals are in place.

IMPORTANT: *It is the conical end of the hose which grips into the holder. The showerhead will not fit in the holder without the hose attached.*

COMMISSIONING

- Start the water flow by rotating the flow control (left hand side) clockwise (fixed showerhead) or anti-clockwise (handset).
- Make sure that the hot and cold water supplies are fully open and at (or near to)

Fig.13

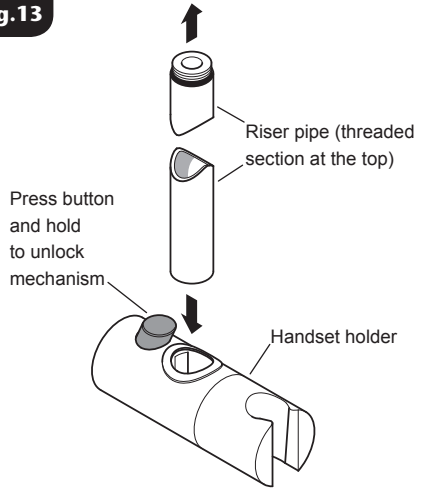


Fig.14

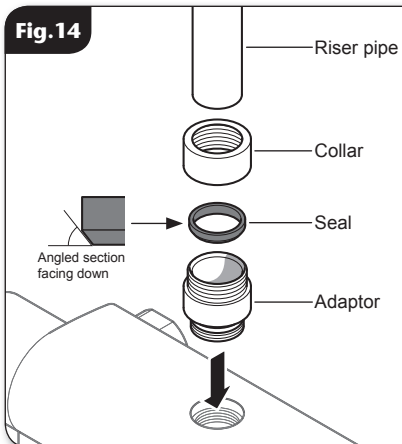
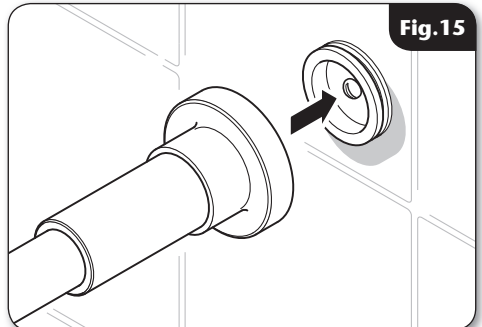


Fig.15



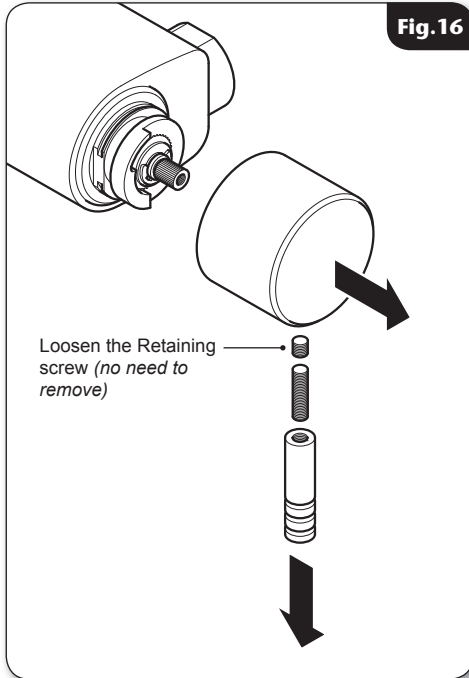


Fig. 16

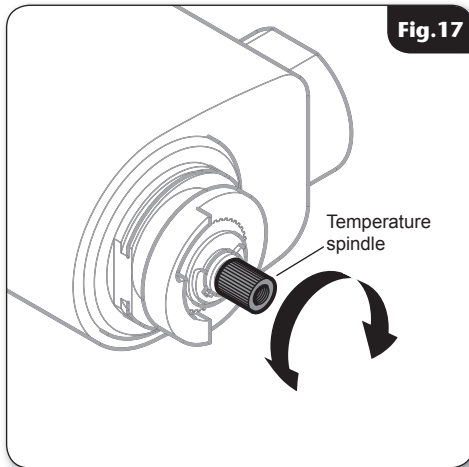


Fig. 17

their design temperature and pressures, and are within the requirements as stated on **Page 2, & below.**

- Make sure the temperature control (right hand side) is at the maximum temperature setting.
- Allow the shower to run at this maximum temperature setting until the water temperature has stabilised.
- Rotate the temperature control until your desired showering temperature is reached.

Note: *If your desired temperature is above the maximum temperature, please see 'ADJUSTING THE MAXIMUM TEMPERATURE STOP SETTING' on Page 13.*

- A final temperature check **SHOULD** be made on-site to guarantee user safety, and that the mixer falls within recommended 'maximum mixed water outlet temperatures' - **as stated below.**

TEMPERATURE ADJUSTMENT RANGE

The mixer has a temperature stop to prevent accidental rotation to higher temperatures. This is adjustable to provide a maximum temperature of 35°C – 45°C.

The mixed water temperature can be adjusted from cold through to a top limit (which can be pre-set during installation – factory set at approximately 38°C) with full anti-scald protection throughout the range.

Recommended outlet temperatures

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

44°C - for bath fill but see notes below.

41°C - for showers.

41°C - for washbasins.

38°C - for bidets.

The mixed water temperatures must never exceed **46°C** at terminal fitting.

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**.

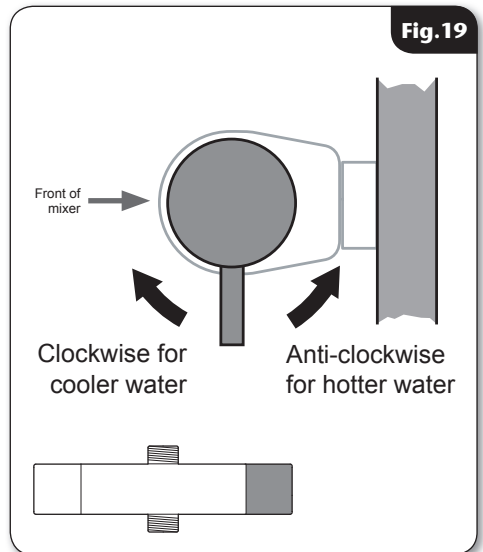
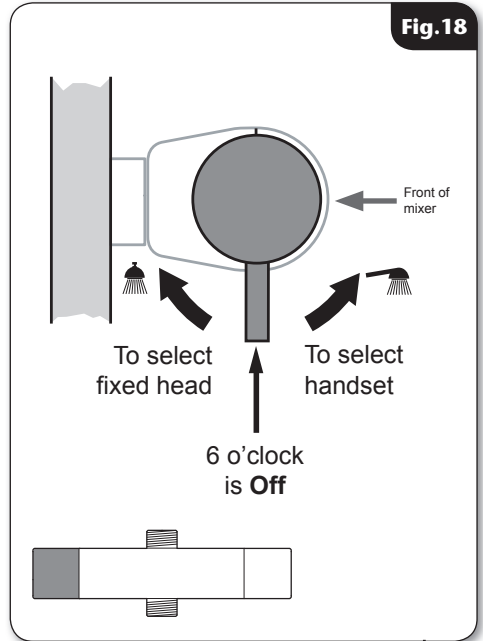
ADJUSTING THE MAXIMUM TEMPERATURE STOP SETTING

- Remove the lever and lever screw from the temperature control to allow access to the retaining screw. Loosen the retaining screw and pull the temperature control off (**fig.16**).
- The maximum temperature stop **DOES NOT** need to be removed.
- Turn the flow control (left side) to full flow. With a steady flow running, adjust the temperature spindle until the temperature is about 38°C (**fig.17**).
- When the showering temperature is satisfactory turn off the shower. Refit the temperature control, as in (**fig.11**).
- Secure the temperature control in place with the screw and refit the lever.

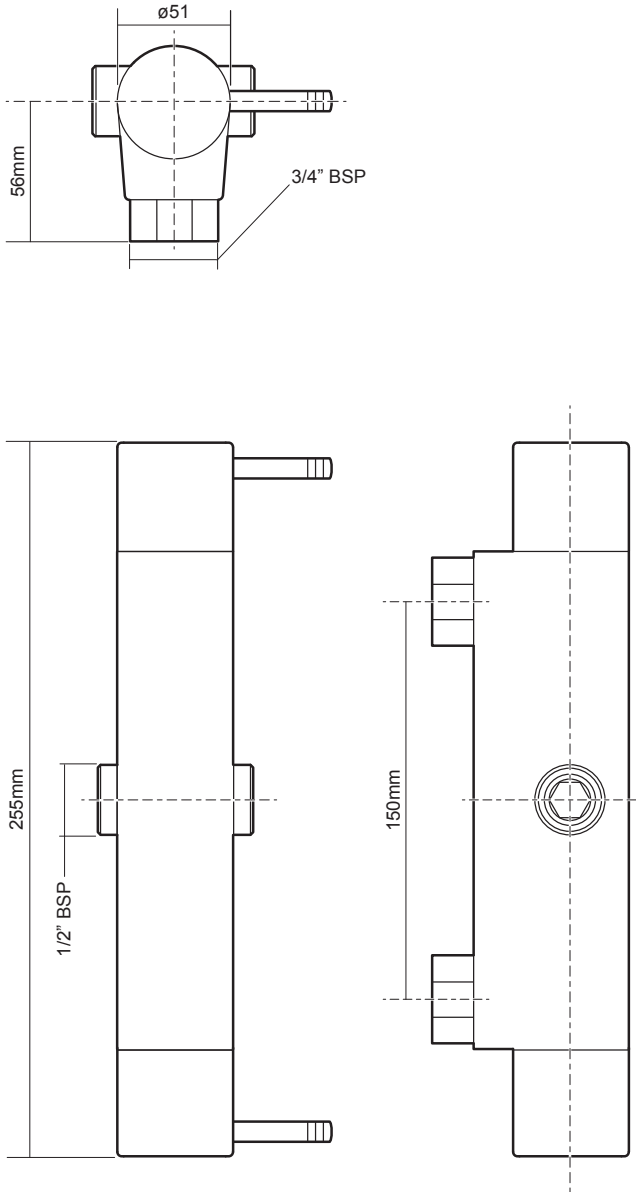
OPERATING THE SHOWER (Diverter)

- When the **ON/OFF** Diverter control lever is at **6 o'clock**, it is in the **OFF** position.
- To use the **fixed head** outlet turn the Diverter clockwise. To decrease the flow, turn the Diverter control lever back towards the **OFF** setting (**fig.18**).
- To use the **handset** turn the Diverter control anti-clockwise. To decrease the flow, turn the Diverter control lever back towards the **OFF** setting.
- To stop the water flow reposition the Diverter control lever to the (6 o'clock) **OFF** position.
- To adjust the water temperature, rotate the temperature control (right-hand side): clockwise for a **cooler** shower or anti-clockwise for a **hotter** shower (**fig.19**).

CAUTION: Exposed metal and chromed surfaces may become hot during use.

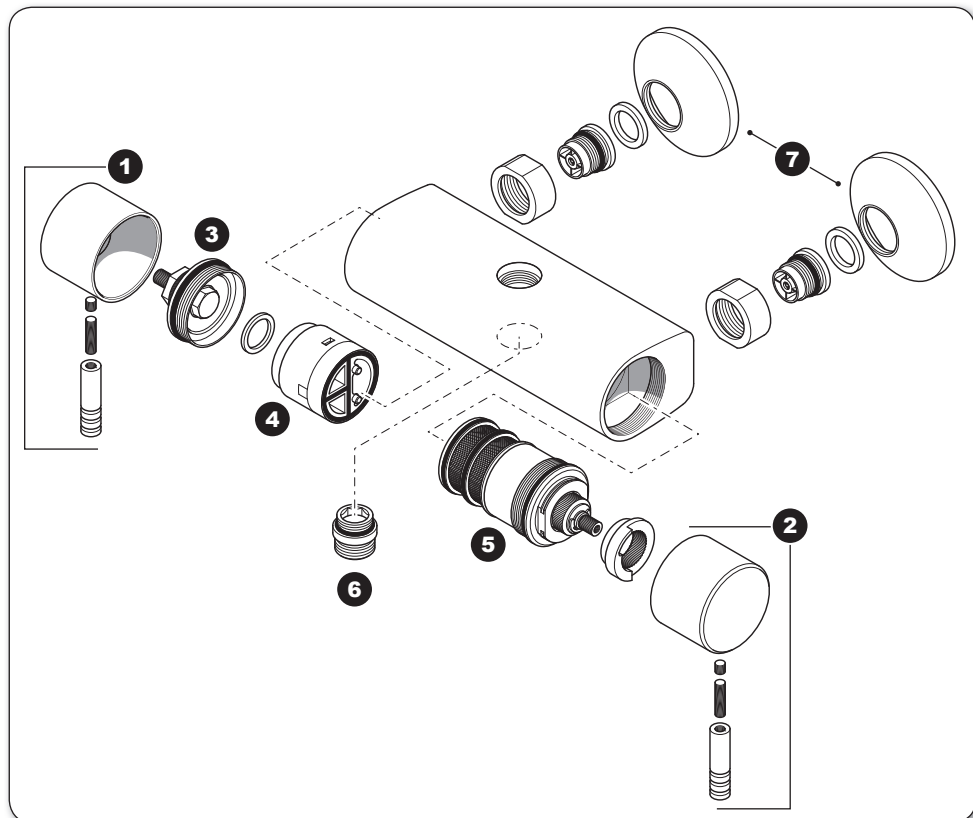


DIMENSIONS

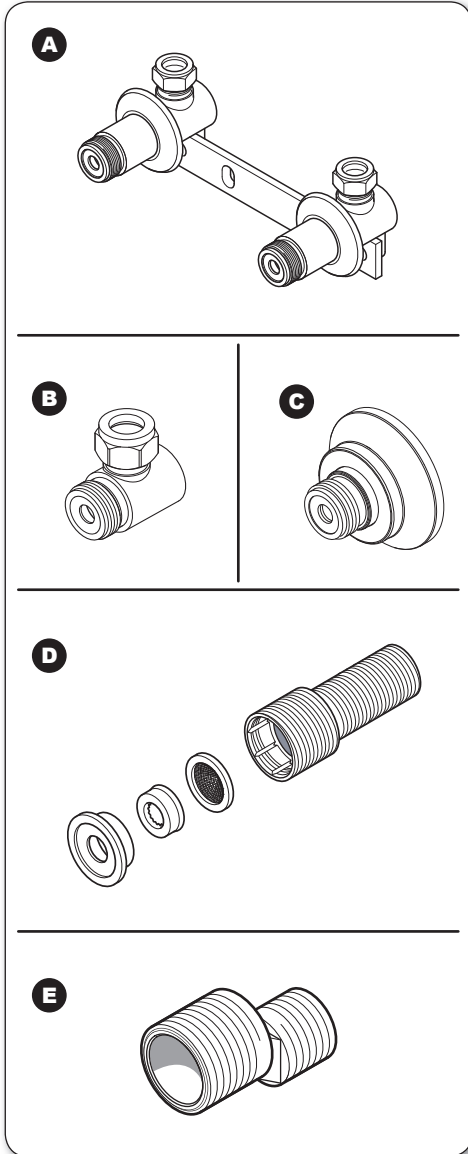


All dimensions listed in this fitting book regarding the product and installation are approximate.

SPARE PARTS



Ref. Description	Part No.
1. Flow control.....	83308860
2. Temperature control.....	83308850
3. Adaptor.....	83308880
4. Flow cartridge.....	83308870
5. Thermostatic cartridge	83307770
6. Outlet	83307360
7. Trim pack	86001390
- Non return valves (NRV)	83307290
- Straight connector	UNPIPCON



***SPARE PARTS - bar mixer fittings**

Ref. Description

Part No.

A. Bar bracket	UNBMXBKT
B. Bar bracket (exposed)	UNBMXFIXEX
C. Bar bracket (push-fit)	UNBMXFIXBT
D. Straight connector	86001120
E. Dogleg connector	86001110

The bar mixer fittings can be purchased from Customer Spares. Please check that they are suitable for your installation requirements before ordering.

* Not supplied unless otherwise stated

Thermostatic bar mixer shower

APPROVALS

Designed to comply with:

***BS EN 1111, 1287.**

***WRAS**

FLOW CHART

Flow Rate (l/m)	6.7	9.5	12.5	15.0	17.5	26.0	36.0	45.5	52.0	58.5
Pressure (bar)	0.1	0.2	0.3	0.4	0.5	1.0	2.0	3.0	4.0	5.0

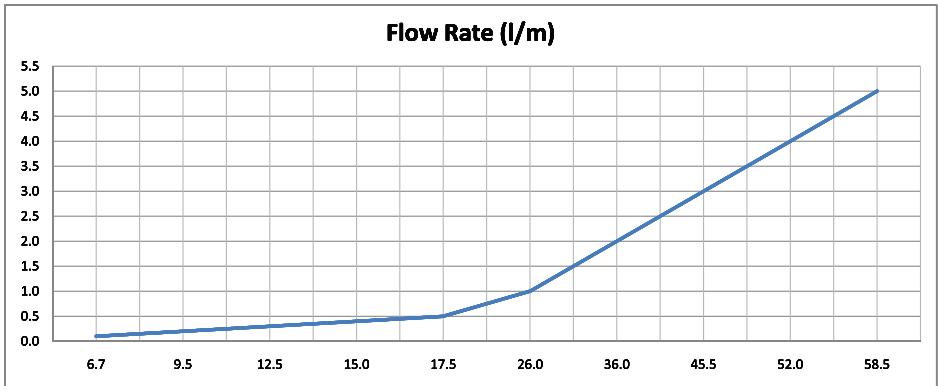
Conditions for test

Inlet temperatures comply with EN1111 requirements

Outlet temperature 38°C

Flow Control Fully Open

Open Outlet - No hose or showerhead connected



Flow rates recorded from gravity tanks = 6.7 l/m

MAINTENANCE

The following maintenance procedure must be carried out for commercial and health care premises, but is not necessarily required for domestic installations.

Maintenance of the unit is required to give continued performance after installation and that it continues to provide scald prevention.

Note: *a thermostatic mixing valve in need of maintenance can be undetectable in normal use and only becomes apparent when a disruption occurs in the hot or cold water supply temperatures or pressures.*

The frequency of routine maintenance of the internal of the valve will depend mainly on the water supply condition. Experience of local conditions will dictate the intervals for inspection and in-service testing - guidance has been given below which can be adjusted for local requirements.

- a) Initially check the filters for debris once every three months and clean if necessary.
- b) Perform a thermal shut off test every three months, and check the maximum temperature setting. See the 'Commissioning' section for the details of this test and readjustment of the maximum temperature setting if required.
- c) If the maximum water temperature varies by more than 2°C from the commissioned setting then carry out the following checks
 - Check the isolating valves are fully open.
 - Check the internal surface for scaling.

If the body requires descaling then it should be removed from the pipework to carry this work out (all rubber parts **MUST** be removed before descaling).

- Check the function of the non-return valves.

The non-return valves (NRVs) prevent cross-flow between hot and cold supplies under unequal pressure conditions. They are designed for long life with no maintenance.

Note: *the (NRV's) will only operate in one direction - water should be able to flow into the unit from the inlets, but **NOT** back out through the inlets.* If these checks do not highlight the reason for the

temperature variation, then internal components will require replacement - *please see the spare parts list.*

Cleaning

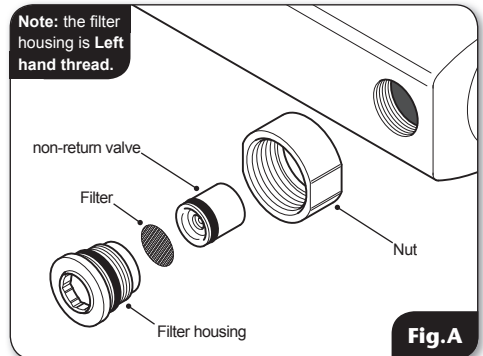
It is recommended that all products are cleaned using warm, soapy water.

Do not use abrasive or aggressive chemical cleaning products as this may affect the product surface finish and invalidate your guarantee.

Cleaning the filters (fig.A)

It is advised that this should be carried out by a qualified person.

- Turn off the water supplies before starting.
- To gain access to the filters remove the unit from the inlet fittings.
- Remove the filter housing and disassemble.
- Wash the filters thoroughly under running water, use a suitable brush to remove all debris.
- Reassemble and fit in reverse order.



Disinfection

Where chlorine is used for the disinfection of water systems all relevant guidelines and approved codes of practice must be strictly followed. Failure to comply with the relevant guidelines and approved codes of practice may invalidate your guarantee.

WARNING!

DO NOT use 'powerful' abrasive or solvent cleaning fluids when cleaning the shower as they may damage the fittings.

FAULT FINDING

The following can be carried out by a competent person

Problem/Symptom	Cause	Action/Cure
1 Water too hot.	1.1 Temperature control incorrectly commissioned.	1.1.1 Refer to commissioning section.
	1.2 Not enough cold water flowing through shower.	1.2.1 Reposition temperature control knob
	1.3 Increase in the ambient cold water temperature.	1.3.1 Reposition temperature control knob.
	1.4 Cold water supply blocked.	1.4.1 Turn off the shower and consult a competent plumber or contact Customer Service.
	1.5 High volume of cold water drawn off elsewhere.	1.5.1 Reduce the simultaneous demand from the supply.
2 Water too cold.	2.1 Temperature control incorrectly commissioned.	2.1.1 Refer to 'commissioning' section.
	2.2 Not enough hot water flowing through shower.	2.2.1 Reposition temperature control knob
	2.3 Decrease in the ambient cold water temperature.	2.3.1 Reposition temperature control knob
	2.4 Insufficient hot water supplies from the heating system.	2.4.1 Make sure heating appliance is set to maximum or has sufficient stored hot water. 2.4.2 Make sure heating appliance is igniting by trying a hot water tap elsewhere.
	2.5 Hot water supply blocked or restricted.	2.5.1 Turn off shower and consult a competent plumber or contact Customer Service.
	2.6 Flow regulator not fitted (HP systems only).	2.6.1 Fit the supplied flow regulators (<i>Page 9</i>).
3 High water flow and/or poor performance on a mains fed system.	3.1 Flow regulators not fitted.	3.1.1 Fit flow regulators (<i>Page 9</i>).

FAULT FINDING

Problem/Symptom	Cause	Action/Cure
4 Water does not flow or shower pattern collapses when another outlet is turned on.	4.1 Water supplies cut off.	4.1.1 Check water elsewhere in house and if necessary contact local water company.
	4.2 Shower unit blocked.	4.2.1 Inspect the inlet filters. Clean if necessary.
	4.3 Blockage in pipework.	4.3.1 Turn off the shower and consult a suitably competent plumber.
	4.4 Showerhead blocked.	4.4.1 Clean showerhead.
	4.5 System not capable of supplying multiple outlets at the same time.	4.5.1 Reduce the simultaneous demand. 4.5.2 Make sure stop/service valves are fully open. 4.5.3 Check if sufficient water pressure.

The following is recommended for a professional qualified installer only

5 Water too cold.	5.1 Running pressure in excess of maximum recommended.	5.1.1 Fit a pressure reducing valve.
6 Shower controls noisy while in use.	6.1 Running pressure in excess of maximum recommended.	6.1.1 Fit a pressure reducing valve.
7 Shower will not shut off.	7.1 Flow control cartridge worn.	7.1.1 Renew flow control cartridge.

UK SERVICE POLICY

In the event of a product fault or complaint occurring, the following procedure should be followed:

1. Telephone Customer Service on **0844 980 0750** having available, your details including post code, the model number and power rating of the product, together with the date of purchase.
2. Based on information given over the telephone, a Triton Customer Service Advisor will attempt to diagnose the fault and confirm whether a site visit from a qualified service engineer is required.
3. All products attended to by a Triton service engineer must be installed in full accordance with the Triton installation guide applicable to the product. *(Every product pack contains an installation guide, however, they can also be bought via our Customer Service Spares Department).*
4. Our engineer will require local parking and if a permit is required this must be available to the engineer on arrival at the call.
5. It is essential that you or an appointed representative *(who must be over 18 years of age)* is present for the duration of the service engineer's visit. If the product is in guarantee you must produce proof of purchase.
6. Where a call under the terms of guarantee has been booked and the failure is not product related *(i.e. scaling and furring, incorrect water pressure, pressure relief device operation or electrical/plumbing installation fault)* a charge will be made. A charge will also be issued if nobody is at home when the service engineer calls or adequate parking/permit is not available.
7. If the product is no longer covered by the guarantee an up front fixed fee will be charged before the site visit.
8. Should proof of purchase not be available on an "in-guarantee" call, or should the service engineer find that the product is no longer under guarantee, the engineer will charge the same fixed price and the customer will be expected to pay the engineer before he leaves. If payment is not made on the day an administration charge will be added to the fixed charge.
9. If a debt is outstanding from a previous visit, or from any other Triton purchase. Triton reserves the right to withhold service until the debt has been settled.
10. Triton takes the health, safety and wellbeing of its employees very seriously and expects customers to treat all staff members with respect. Should any employee feel threatened or receive abuse, either verbally or physically, Triton reserves the right to withhold service and will support the employee with a legal prosecution.

Replacement Parts Policy

Availability: It is the policy of the manufacturer to maintain parts availability for the duration of production and a period of five years thereafter, in accordance with industry standards.

Spare parts are available via our website, **www.tritonshowers.co.uk**, or by telephoning Triton Customer Service Spares Department. Payment should be made by credit/debit card *(excluding American Express or Diners Card)*.

Payment can also be made by pre-payment of a pro forma invoice by cheque or money order.

TRITON STANDARD GUARANTEE

Triton guarantee this product against all mechanical defects arising from faulty workmanship or materials for a period of five years for domestic use only, from the date of purchase, provided that it has been installed by a competent person in full accordance with the fitting instructions.

Any part found to be defective during this guarantee period we undertake to repair or replace at our option without charge so long as it has been properly maintained and operated in accordance with the operating instructions, and has not been subject to misuse or damage.

This product must not be taken apart, modified or repaired except by a person authorised by Triton. This guarantee applies only to products installed within the United Kingdom and does not apply to products used commercially. This guarantee does not affect your statutory rights.

What is not covered:

1. Breakdown due to: **a)** use other than domestic use by you or your resident family; **b)** wilful act or neglect; **c)** any malfunction resulting from the incorrect use or quality of electricity, gas or water or incorrect setting of controls; **d)** failure to install in accordance with this installation guide.
2. Repair costs for damage caused by foreign objects or substances.
3. Total loss of the product due to non-availability of parts.
4. Compensation for loss of use of the product or consequential loss of any kind.
5. Call out charges where no fault has been found with the appliance.
6. Call out charges where the water supply cannot be isolated, this includes consequential losses arising from unserviceable supply valves.
7. The cost of repair or replacement of pressure relief devices, showerheads, hoses, riser rails and/or wall brackets, isolating switches, electrical cable, fuses and/or circuit breakers or any other accessories installed at the same time.
8. The cost of routine maintenance, adjustments, overhaul modifications or loss or damage arising therefrom, including the cost of repairing damage, breakdown, malfunction caused by corrosion, furring, pipe scaling, limescale, system debris or frost.

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Triton is a division of Norcross Group (Holdings) Limited

Customer Service: ☎ **0844 980 0750**

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