

## TROUBLE SHOOTING

SYMPTOM	SOLUTION
After installation the shower/bath runs HOT or COLD and will not mix.	Hot and cold supplies are plumbed the wrong way round.
Shower/bath will not run hot enough when first installed.	Maximum temperature needs adjusting, see 'temperature setting'.
Cold water tracking through the valve into the hot water system.	Check and clean the filters.
Very low flow or no flow (gravity).	Check hot and cold feeds (the valve will shut down if either the hot or cold supply fails).

This product should only be fitted by a qualified plumber to NVQ (National Vocational Qualification) or SNVQ (Scottish National Vocational Qualification) Level 3. Should the installation be completed by a non-qualified person then the guarantee may be considered invalid.

For a claim made under our warranty written certification of your installers credentials can be required. For further information or to find a qualified installer in your area please visit the Institute of Plumbers website - [www.iphe.org.uk](http://www.iphe.org.uk)

## THE QUALIFICATIONS

At present, to be a plumber you need to follow the National Vocational Qualification (NVQ) route (Scottish National Vocational Qualification - SNVQ - in Scotland). These qualifications are made up of theory and practical work in the classroom/purpose built training facility and work based experience with a working plumber. Colleges should help students find a work placement, although many students organise it themselves.

The S/NVQ qualification works in levels. All recently qualified plumbers should hold S/NVQ Level 2 as basic with Level 3 as the preferred level. Level 2 will give you the foundation you need for a career in plumbing and teach you domestic plumbing to a satisfactory level. Level 3 is more comprehensive and deals with domestic, commercial and industrial plumbing along with aspects such as gas - if you want to one day set up your own business, this is the level to reach. The Institute of Plumbing and Heating Engineering, and the industry as a whole recommends that all plumbers reach a minimum of Level 3.

Reaching Level 3 has other advantages. The Institute runs a Master Plumber Certificate, which only those attaining Level 3 or equivalent can reach as long as they have the relevant experience as well. Those with S/NVQ Level 3 can (once in membership with the Institute for five years as a Member MIPHE) gain Engineering Technician EngTech status with the Engineering Council (UK).

**crosswater** 

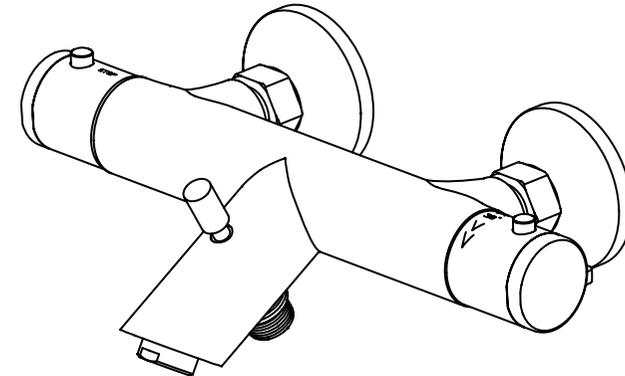
For any further information please contact  
Crosswater on: **0845 873 8840**

Or visit our web-site at [www.crosswater.co.uk](http://www.crosswater.co.uk)

The manufacturer reserves the right to make technical modifications without prior notice.

## KIA THERMOSTATIC BATH SHOWER MIXER

EV1211EC



## INSTALLATION INSTRUCTIONS

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## INTRODUCTION

Please read these instructions carefully and keep in a safe place for future reference.

**General Installation Requirements**

The installation must comply with regulations of the Local Water Authority as contained in their bylaws. All of the taps in this range are single flow (the hot and cold water mix in the body) and should therefore be supplied with hot and cold water at balanced pressures, both from the tank or both from the mains (via a combination boiler for example). If the taps are not supplied at balanced pressures then the mixer will not function correctly. It will also be necessary to fit non-return valves on both hot and cold feeds. It is very important that all pipe work is flushed thoroughly after installation to avoid damaging the ceramic discs.

**Minimum/Maximum working pressure**

These taps are suitable for high pressure installations they are fitted with a ceramic disc cartridge which provided a good flow rate with very smooth movement. The maximum water pressure is 10 bar (note: main cold water is normally supplied at between 2 and 3 bar). The required minimum water pressure is 1 bar.

For installations where the mains pressure exceeds 5 bar a pressure reducing valve should be fitted.

**Approvals**

All products are manufactured using materials tested and approved under the Water Bylaws Scheme and comply with requirements of British Standard 5412: 1996 where applicable.

**Preparation and bylaw requirements**

These taps are single flow so the hot and cold water mix in the body. Water bylaws require that where the hot water is supplied from a tank and cold from the mains, non return valves are fitted on both hot and cold pipes as close as possible to the tap. These are not supplied. Where combination boilers are fitted it is only necessary to shut off the incoming mains and turn the boiler off, and non return valves are not required.

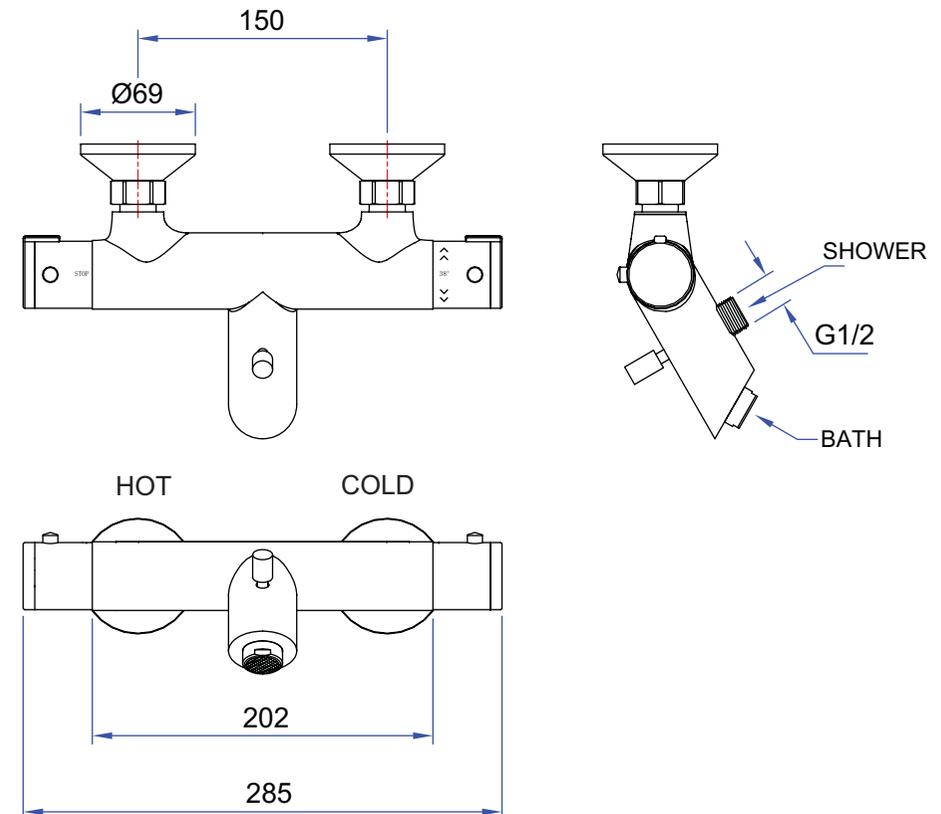
**WARNING**

**Before installing the new mixer it is essential that you thoroughly flush through the supply pipes in order to remove any remaining swarf, solder or other impurities.**

**Failure to carry out this simple procedure could cause problems or damage to the workings of the mixer.**

These hints have been prepared for your guidance, you must exercise due care at all times. We do not accept responsibility for any problems that may occur through incorrect installation.

## DIMENSIONS



NOTE: ALL DIMENSIONS IN MILLIMETRES

INSTALLATION

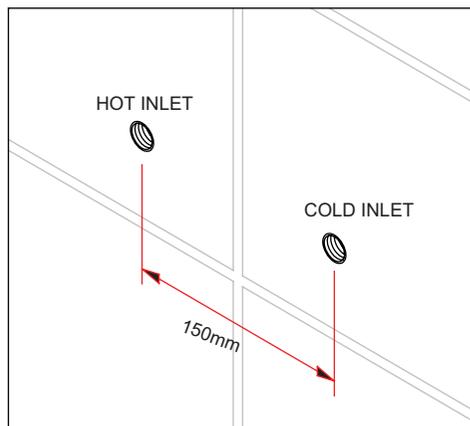


FIG. 1 PREPARING INLET CONNECTIONS

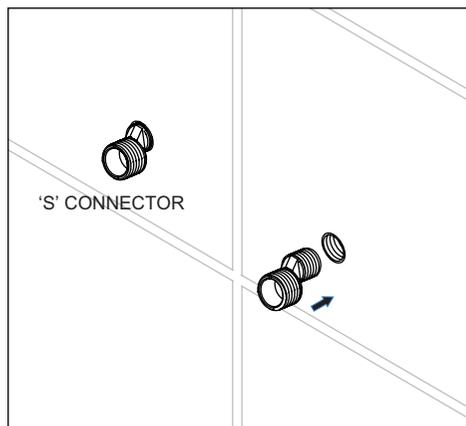
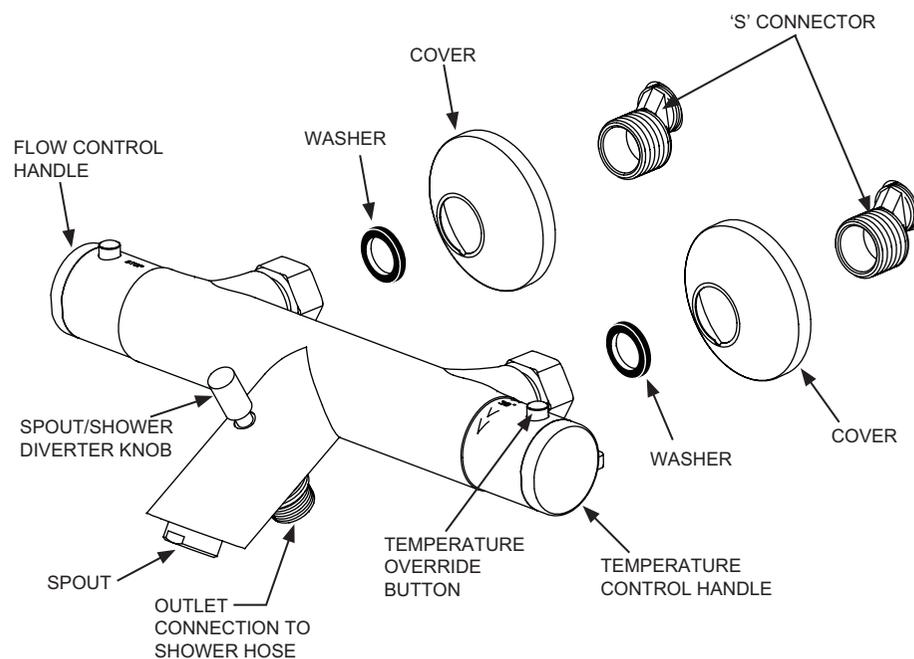


FIG. 2 FITTING THE 'S' CONNECTORS



INSTALLATION

First shut off your water heating system then, with your mains stop cock closed, open the lowest hot and cold taps in the house and allow to run until the cold storage tank and pipes are empty (the hot water storage cylinder always remains full).

Where combination boilers are fitted it is only necessary to turn off the boiler and shut off the incoming mains.

Fitting isolating valves to the inlet feeds is recommended for ease of maintenance.

INSTALLATION

**!** Remember to turn off the mains water supply before connecting to any existing pipe work.

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

Preparing the pipe work.

As the valve has no means of fixing to the wall it needs to be supported on rigid pipe work. Prepare the supply pipes (hot on the left and cold on the right) at the required height with a width of 150mm centres, making the ends of the adaptors level with the face of the wall, see fig 1.

Screw each 'S' connector into the adaptors in the wall see fig 2.

Valve.

Screw a cover onto each of the 'S' connectors, place a washer into each of the inlets in the valve body. Mount the body onto the "S" connectors and tighten taking care not to damage the surface of the valve.

ATTENTION

Having first checked all new connections, turn on the mains stop cock, close all taps except the new valves and as the system starts to refill check for leaks.

Once you have satisfied yourself that there are no leaks, switch on the water heating.

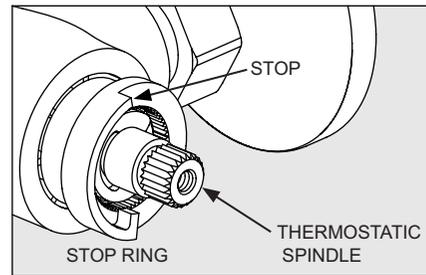
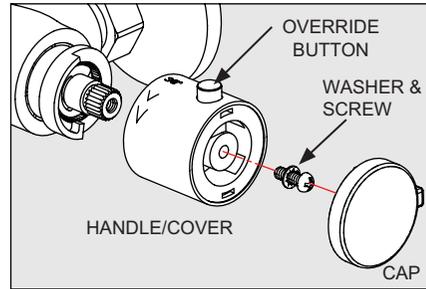
TEMPERATURE SETTING

Removing the handle - pull off the cap and remove the washer & screw, pull off the handle/cover.

Rotate the exposed thermostatic spindle (clockwise for cold, and anti-clockwise for hot) until the maximum desired showering temperature is set (38°C - suggested maximum "pre-set" temperature).

Then line up the button on the top of the handle/cover with the stop on the stop ring itself. Push the handle/cover onto the splines, tighten the screw, refit the cap.

The thermostat is now set to its new temperature and can only be increased or decreased by repeating this process.



MAINTENANCE

**Before carrying out any maintenance please remember to turn OFF all mains water and turn ON the isolating valves.**

**THERMOSTATIC CARTRIDGES**

The concealed thermostatic valve should give trouble free service, but in the event of failure, servicing is straight forward.

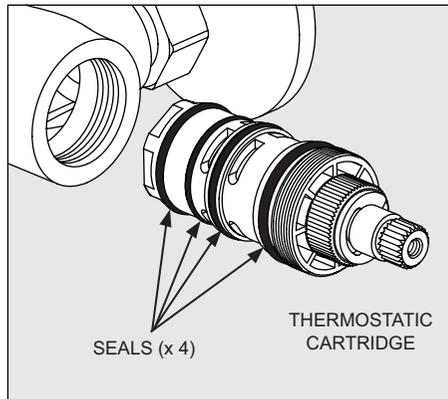
**To remove the thermostatic cartridge.**

Remove the handle/cover - see above.

Carefully using the correct size spanner unscrew and remove the cartridge (it might be necessary to remove the stop ring).

Wash the cartridge with clean running water and make sure that any trapped debris has been removed. Dry and lightly grease the seals (only use silicone grease). Screw the cartridge back into the body, replace the stop ring (if removed) making sure that the stop is at the 12 o'clock position.

Push the handle/cover onto the splines, tighten the screw, refit the cap.



MAINTENANCE

**FLOW CONTROL CARTRIDGE**

The Flow Control Cartridge uses ceramic discs which normally last indefinitely unless debris manages to get between them. Wash the cartridge with clean running water, dry and lightly grease the seal.

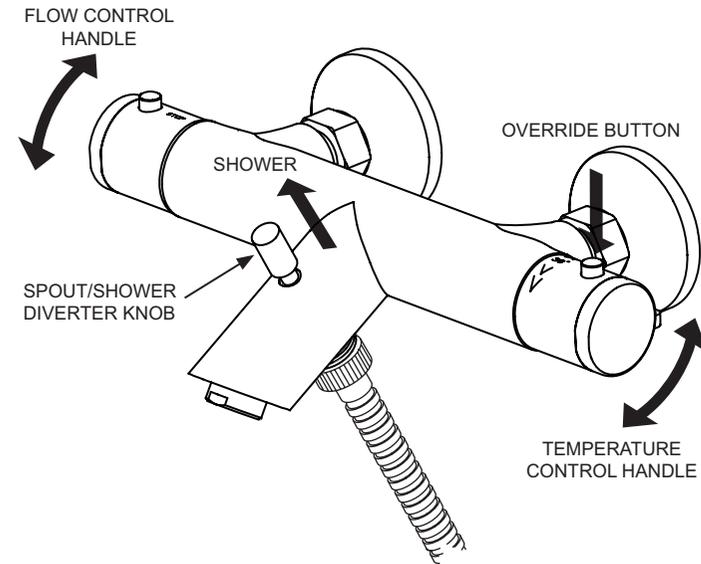
**FILTERS**

Turn off water supply to the valve and remove from the wall. Using a 12mm hexagonal key undo the retaining nut within each of the inlets. Wash the filters with clean running water and replace.

OPERATION

Turn the Flow control handle to turn on and off and to increase/decrease the flow of water. Turn the Temperature control handle to increase/decrease the temperature. Push down on the Override button and turn the handle towards you to override the set temperature. To change the set temperature see section on page 5 Temperature setting.

The valve will automatically deliver water to the spout when it is turned on. The shower is operated by pulling the diverter knob upwards.



CLEANING

**CARE OF YOUR SHOWER VALVE**

We recommend cleaning the valve with a soft damp cloth.

We strongly advise against the use of ALL cleaning products.