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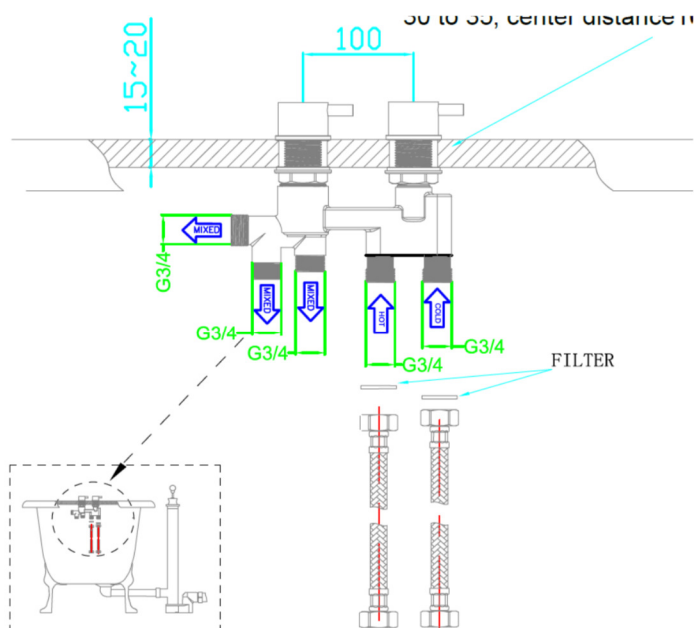
TAPS & SHOWERING

METRO BATH MOUNTED 3 WAY THERMO MIXER

MT/577/C



Bath cylinder bore diameter
30 to 35, center distance 100mm.



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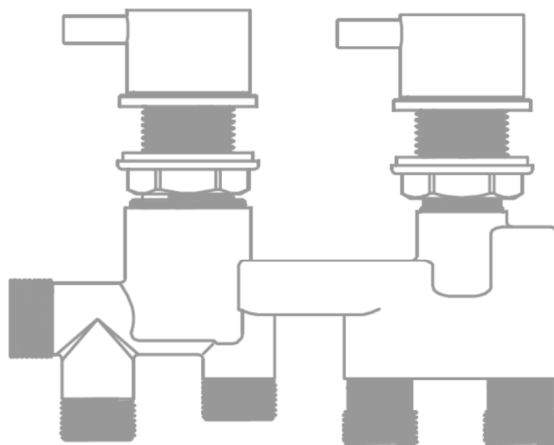
SAGITTARIUS LTD UNIT 1 LOWER VICTORIA STREET—CHADDERTON—OLDHAM—OL9 9TU TEL:0616 6202029

EMAIL:TECHNICAL@SAGITTARIUSTAPS.CO.UK

24/10/2018

INSTALLATION USE INSTRUCTIONS

Bathtub Concealed 3-way Thermostatic Shower Valve



OPERATING CONDITIONS OF USE -

Before installation the operating conditions of use must be checked. The table below contains details of the necessary conditions of operation. If your water supply cannot meet these conditions then the valve cannot be guaranteed to operate as a Type 2 valve. This valve is suitable for use in both LP (BS 1287) and HP (BS 1111) operating conditions.

Please note valves must always be operated within either the range for BS 1287 or BS1111. Valves cannot operate effectively where a hot or cold pressure system crosses the boundaries of the two ranges. In the case where operating conditions such as these exist; either the hot or cold pressure will require to be reduced or boosted so as to be within a selected range.

Operating pressures above 5.0 Bar will require the installation of a pressure reducing valve.

	BS1287	BS1111
Maximum Static Pressure	10 bar	10 bar
Flow pressure (Hot & Cold)	0.1 bar – 1 bar	0.5 bar – 1 bar
Hot Water Supply Temperature	55 - 65 °C	55 - 65 °C
Cold Water Supply Temperature	MAX 25 °C	MAX 25 °C
Mixed Water Temperature	MAX 46 °C	

NOTE - The mixed outlet temperature and the system hot temperature must be different by a minimum of 10°C for the shut off facility to function.

RECOMMENDED OUTLET TEMPERATURES -

Bath Fill	44 °C *
Shower	41 °C

- The mixed water temperature at the terminal fitting must never exceed 46 °C
- The maximum mixed water temperature can be 2°C above the recommended maximum set outlet temperatures.

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

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

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

TROUBLE SHOOTING -

PROBLEM	SOLUTION
After installation shower only runs HOT or COLD and will not mix.	Into the water Hot & Cold supplies are plumbed the wrong way round.
Shower will not run hot enough when first installed.	Maximum temperature needs adjusting, see commissioning.
Cold water tracking through the valve into the hot water system.	Check and clean the check valve cartridges and filters located under the check valves.

TESTING METHOD -

The valve should be tested to ensure correct operation at commissioning and thereafter at intervals no greater than 12 months.

Notes:

- The testing will only require a normal thermometer with a scale greater than 65°C. The temperature sensitive element of the thermometer should always be fully inserted into the water flow.
- 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.

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

1. Measure the mixed water temperature and record.
2. The testing will only require a normal thermometer with a scale greater than 65°C. The temperature sensitive element of the thermometer should always be fully inserted into the water flow.
3. Carry out a cold fail/safe shut-off test by using the isolation valve to shut off the water to the cold supply.
4. Wait 5 seconds, if water is still flowing check that the water temperature is below 46°C. The flow should stop or reduce to a trickle.
5. Open cold water isolation valve and measure mixed water temperature.

THERMOSTATIC MIXER VALVE INSTALLATION -

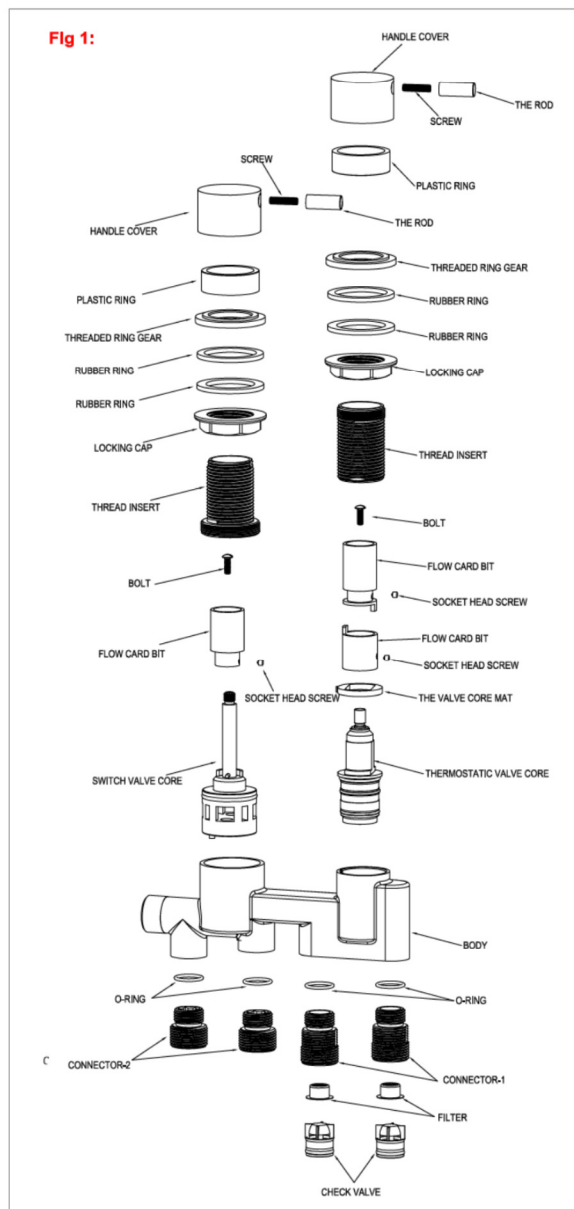
- This guide provides instruction for the installation of Dual Control Thermostatic Shower Valves. It is beyond the scope of this guide to provide detailed instructions for the installation of auxiliary products which may be attached to these valves. Please consult your installer and any guides which are provided with the other products.
- Most problems associated with the operation of thermostatic shower valves are caused by debris in the new pipe work getting into the thermostat. These problems are easily avoided by thoroughly flushing the pipe work BEFORE the shower valve is fitted.
- Dual Control Shower Valves are suitable for use with all water supply systems up to a maximum of 5 bar. Pressures above this limit will require the fitting of pressure reducing valves.
- This product and any accessories fitted with it, must be installed in such a way as not to cause water damage during use.
- The mixer valve is precision engineered and will give continuous safe and controlled performance providing it is installed, commissioned and maintained according to the instructions contained in this document.
- The valve is fitted with integral "listed" single check valve cartridges which command the water supply; therefore the thermostatic valve is protected against cross-flow due to unbalanced line pressures as required by the Water Supply (Water Fittings) Regulations 1999.
- The valve must be installed with isolation valves on both the hot and cold water supplies as close as possible to the valve; so as to allow the valve to be commissioned and tested correctly.
- The valve is supplied with integral strainers on the hot and cold water supplies therefore in-line strainers should not be required.

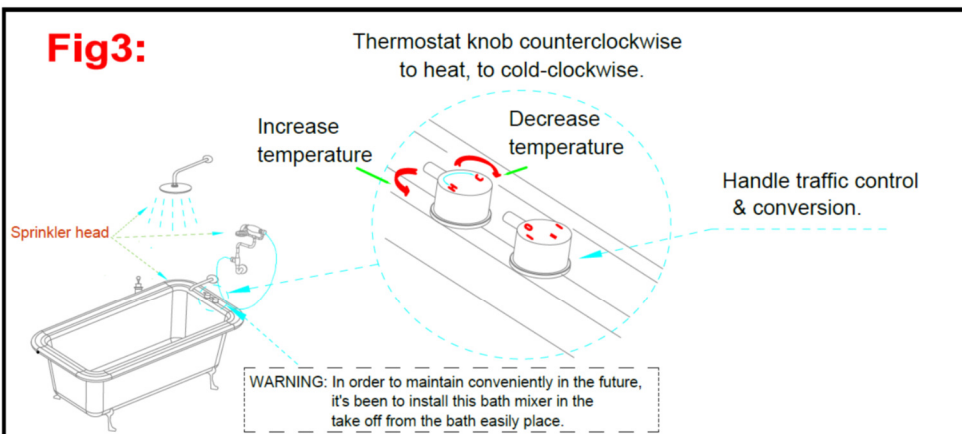
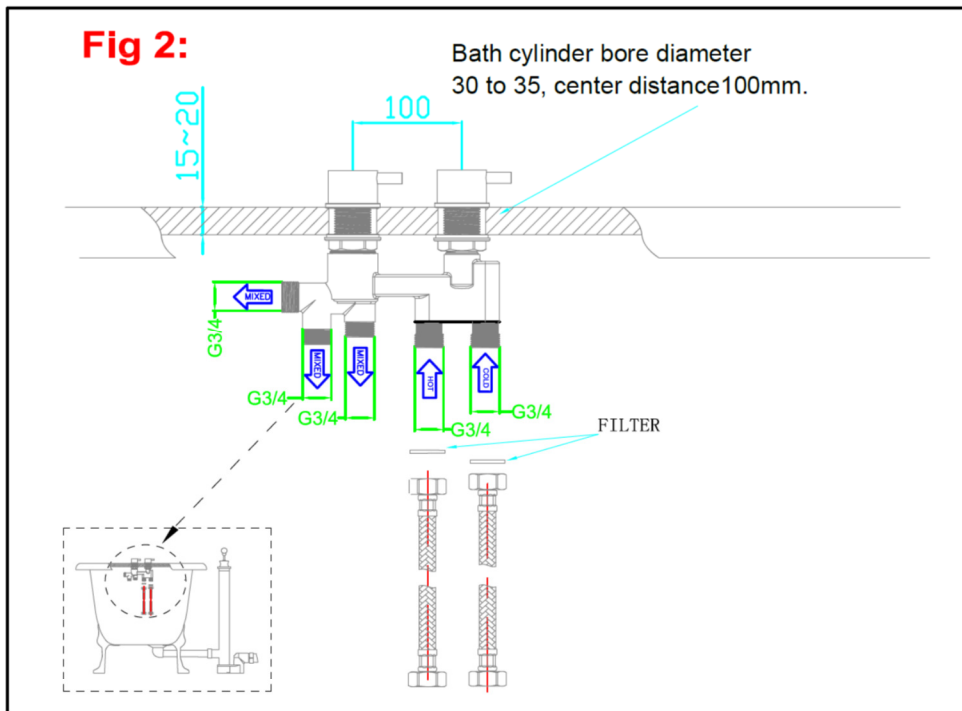
Notes:

- 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.
- If the outlet temperature has drifted by more than 2°C , or if the fail/safe function does not work, a full service or re-commissioning is required.
- If there is a residual flow during the commissioning or the annual verification (cold water supply isolation test), then this is acceptable providing the temperature of the water seeping from the valve is no more than 2°C above the designated maximum mixed water outlet temperature setting of the valve.
- The manufacturer of this valve recommends that in these circumstances you contact him for advice as servicing should only be undertaken by competent persons.
- Any TMV that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the manufacturers' instructions.

WATER SUPPLY (WATER FITTINGS) REGULATIONS 1999 -

This valve complies with the requirements of the above Regulations and installation should be carried out in strict compliance with them.



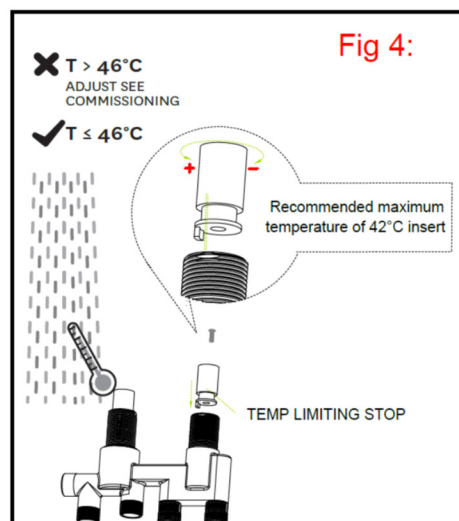


COMMISSIONING -

The mixer valve is factory set to the required temperature. Check the valve after installation to ensure it operates at the correct outlet temperature.

Prior to commissioning the thermostatic mixing valve check the following:

- The designation of the thermostatic mixing valve matches the application.
- The supply pressures are within the valves operating range.
- The supply temperatures are within the valves operating range.
- Isolating valves (and strainers preferred) are installed.



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