

## 6 COMMISSIONING AND PERIODIC CHECKS

The following procedure should be carried out after installation and every 6 months after to ensure that the valve is functioning correctly.

- 1) Leave the tap running to draw off dead leg of hot water.

### CHECK THAT

- 2) The supply pressures are within the recommended range for the application.
- 3) The supply temperatures are within the permitted range for the application and comply with the guidance for the prevention of Legionella.
- 4) The mixed temperature is as required for the application
- 5) Isolating valves and strainers are provided.

### RECORD

- 6) Each hot and cold supply (make a note of the measuring device used).
- 7) The mixed water temperature at the outlet device  
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.

### ISOLATE

- 8) The cold water supply to the mixing valve and record the water temperature. The temperature should not exceed the value given in table 2.

### Recommended Frequency of Regular Servicing

It is suggested that valves be checked against the original set temperature at least once a year. When an annual check is due the following performance tests should be carried out:

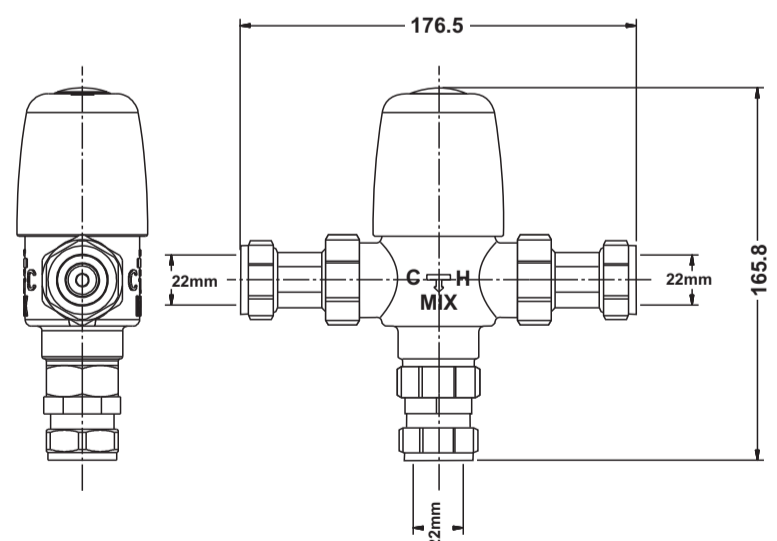
1. Measure the mixed water temperature at the outlet in normal running conditions.
2. Carry out a cold fail-safe shut off test by isolating the cold water supply to the TMV, wait for five seconds. If water is still flowing check that normal hot water supply is available i.e. greater or less than the minimum value shown in recommended supplies table(1) and that outlet temperature is below 46°C. If there is no significant change to the set outlet temperature (+/-2°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.

As a result of a change in supply conditions, if the temperature is adjusted the above procedure should be repeated after adjustment.

### Residual flow

If there is residual flow during 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 2C 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.

## Installation Instructions TMV22 THERMOSTATIC VALVE



A5670NU - TMV22 Thermostatic Under-bath Valve 22mm



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**INSTALLER: After installation please pass this instruction booklet to user**

# 1 SPECIFICATION

The A5670NU thermostatic mixer is for supplying hand hot water to the hot tap, providing safe washing and saving energy.

This valve meets the requirements for Bidets, Showers, Washbasins and Bath tubs to the following standards:

BSEN111 for high pressure (HP) water systems.  
BSEN 1287 for low pressure (LP) water systems.

# 2 WATER SUPPLIES

For best results both supplies should be at the same pressure.

Recommended conditions of use:

	High Pressure (HP)	Low Pressure (LP)
Maximum Static Pressure Bar	10	10
Maximum Pressure Loss Ratio	10:1	10:1
Flow Pressure, Hot & Cold	0.5 to 5	0.1 to 1.0
Hot Supply Temperature – °C	55° to 65°	55° to 65°
Cold Supply Temperature – °C	</=25°	</=25°

Recommended temperature differential between hot and cold = 10°C

# 3 INSTALLATION

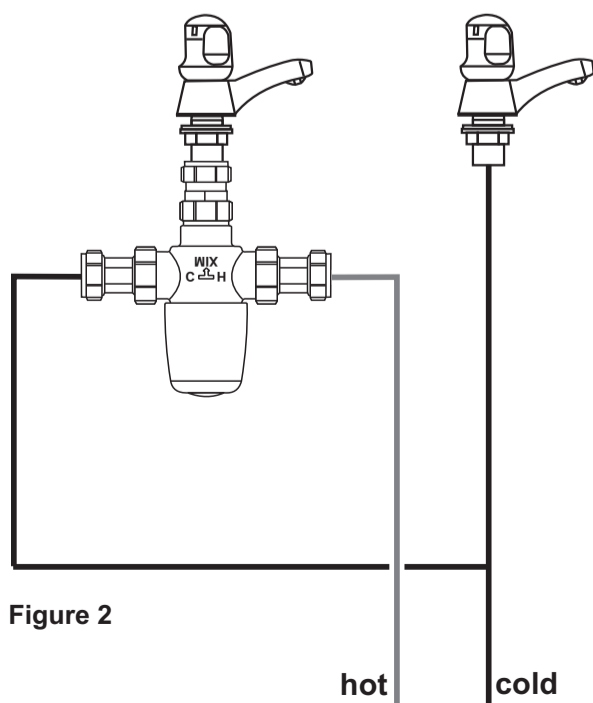
The thermostatic mixing valve should be installed in a position that facilitates commissioning maintenance and testing.

It is a requirement that Isolation valves be installed as close as is practicable to the water supply inlets of the thermostatic mixing valve.

The fitting of strainers is recommended as close as is practicable to the water supply inlets of the thermostatic mixing valve.

Use the seals provided when attaching the straight connectors to the mixer. Avoid using heat for soldering near mixer and connectors to prevent damage to internal components.

The installation of thermostatic mixing valves (TMV) must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999.



Ensure:  
Hot water to inlet marked "H"  
Cold water to inlet marked "C"  
Connection to tap at "MIX"

# 4 TEMPERATURE ADJUSTMENT

This A5670NU thermostatic mixer has been works set to give mixed water at 41°C at 0.2 bar.

To alter the setting, follow this sequence and read the following table for guidance:

A general guide to maximum set temperatures:

Application	Mixed Water Temperature
Bidet	38°C
Shower	41°C
Washbasin	41°C
Bath Fill	44°C

- 1) Leave the tap running to draw off dead leg of hot water.
- 2) Remove the small cap "A" from the anti-tamper shield "B" and remove the Pozidrive screw "C". Remove the shield, taking care to reserve the small lock washer "D".
- 3) Turn the adjustment clockwise to decrease the mixed temperature, anticlockwise to increase the temperature.
- 4) Turn off the tap and taking care to place the lock washer on top of the adjuster, re-fit the shield, screw and cap. Push the shield whilst replacing the screw to keep temperature setting.

It is recommended that the mixed temperature from the terminal fitting should not exceed 46°C

## Safety note:

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 from a bath tap is 43°C.

# 5 SPARES

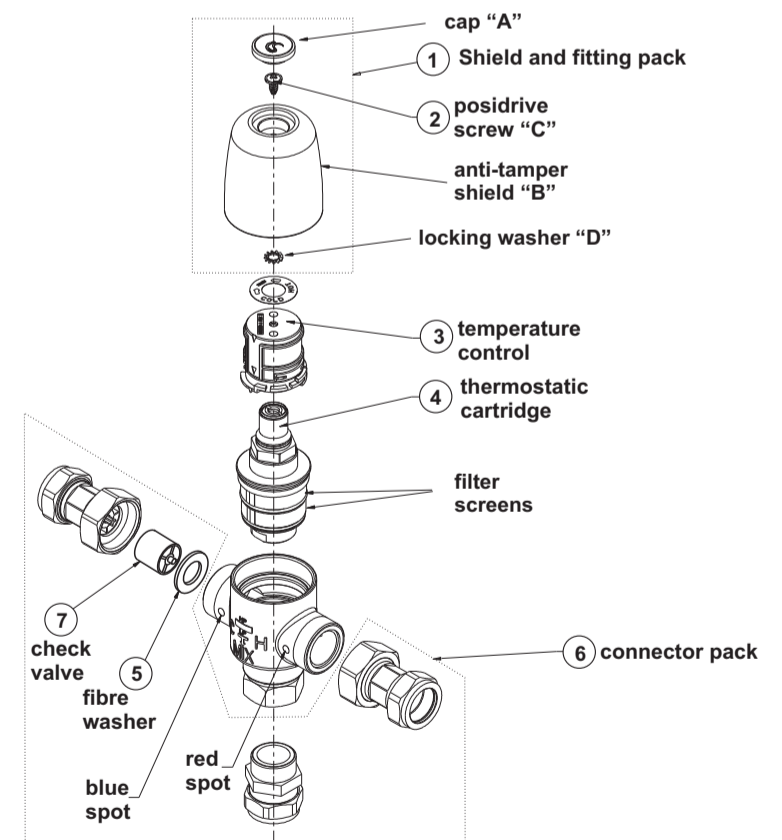


Figure 3

Ref.	Item description	Spares code
1	Shield and fitting pack	A963478NU
2	Pozidrive Screw	S961242NU
3	Temperature control	S960133NU
4	Thermostatic Cartridge	S960134NU
5	Fibre washer	A963493NU
6	Connector pack	A963514NU
7	Check valve	A963520NU