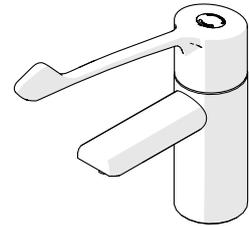


CliniMix® Lead Safe™ Hob Mounted Thermostatic Progressive Basin Mixer - Lever



PRODUCT CODES:
- 100.00.71.00

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1.0 INTRODUCTION

The CliniMix® Lead Safe™ Hob Mounted Thermostatic Progressive Basin Mixer - Lever is a high-performance thermostatic mixing tap suitable for a wide range of applications. The tap is designed to comply with 'AS4032. Thermostatic Mixing Valves - Materials, Design and Performance Requirements'.

The mixing tap has the following features:

- Complies with the requirements of AS4032.4 – Thermostatic Mixing Valves.
- Provides high stability of mixed water temperature even under changing inlet conditions.
- Ensures rapid shut down of mixed outlet flow in the event of hot or cold water supply failure.
- Designed for quick and simple in-situ servicing.
- Suitable for installation into AS3500 compliant systems with hot water temperature as low as 55°Celsius.
- Fitted with tamper resistant temperature adjustment mechanism.
- Cool touch, non-conductive design in the hot side of the body, which minimises the risk of burns.
- Round smooth design to facilitate easy cleaning.
- Self-draining spout design.
- Hot water disinfection available without removing tap.

WARNINGS: Special attention to be paid on notes, photos, images, or drawings of assembly steps marked with the warning symbol.



2.0 SAFETY

The CliniMix® Thermostatic Progressive Basin Mixer is a high-performance tap designed to give stable and dependable operation, provided it is installed, commissioned, operated and maintained as per the recommendations outlined in this manual. It should be noted however that this tap should not be considered as an alternative to adequate supervision and duty of care during its use and operation.

Note: The mixing tap, inlet controls, pipe work and the surrounding area may become hot when installed which may cause burn injuries. Precautions should be taken to ensure that these surfaces cannot cause such injuries.

3.0 DESCRIPTION

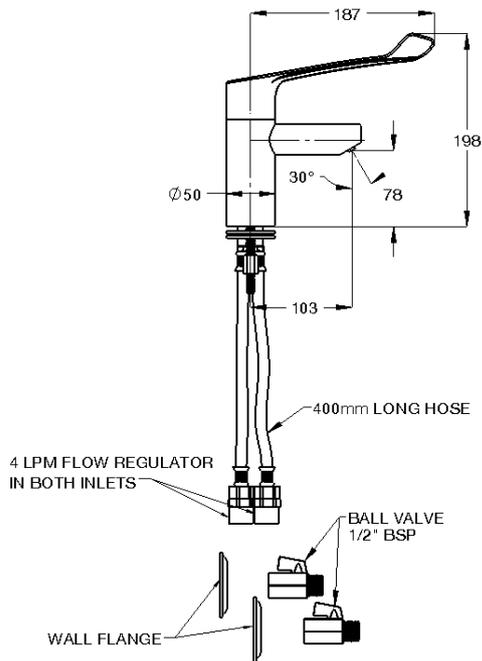
This manual covers the CliniMix® Lead Safe™ Hob Mounted Thermostatic Progressive Basin Mixer. These are designed to provide water from ambient cold up to a safe maximum temperature for hand washing. This mixing tap is supplied with integral isolating valves, strainers, check valves and flow regulators.

Avoid using heat for soldering near the mixer inlets to prevent damage to internal components.

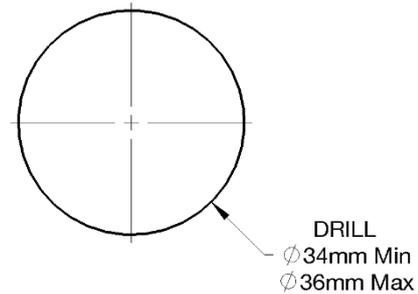
The CliniMix® Lead Safe™ Hob Mounted Thermostatic Progressive Basin Mixer is manufactured from Lead Safe* DR Brass.

**Our Lead Safe™ product range is compliant with the Lead-Free Requirements of the NCC 2022 Vol. Three, Clause A5G4(2) and NSF/ANSI 372*

4.0 DIMENSIONS



If the mounting hole does not already exist, mark out and drill the hole in the bench/trough, as shown in rough-in dimensions.



4.1 TECHNICAL DATA		
Inlet		½" BSP – Female
Outlet		Flow Straightener
Headwork		Thermostatic mixing valve
Working Pressure Range (kPa)	Min	20
	Max	500
Working Temperature Range (°C)	Min	5
	Max	85
Adjustable Temperature Range (°C)	Min	35
	Max	48
Minimum Temperature Differential (between the supply and the outlet temperature) (°C)		10
Factory Set Thermostatic Temp. (°C)		41
Maximum Static Pressure (kPa)		1000
Minimum Flow Rate for Stable Outlet Temperature (LPM)		6
Nominal Flow Rate (LPM)		8
Finish		Chrome
NOTE: Galvin Engineering continually strive to improve their products. Specifications may change without notice.		

5.0 WATER SUPPLY CONDITIONS

INTRODUCTION

This CliniMix® Lead Safe™ Hob Mounted Thermostatic Progressive Basin Mixer is manufactured to the highest standards. When installed the supply conditions detailed below must be observed.

SUPPLY REQUIREMENTS

This mixer is designed to be installed on all types of plumbing systems.

Hot and cold water supply pressures should be reasonably balanced; however, the mixer will function within specification on unequal pressures up to 10:1.

The mixer has integral isolating valves which permit servicing of the strainer, check valve/flow regulator and thermostatic cartridge. They are also used for thermal disinfection.

The minimum pressure for the correct thermal operation is 20kPa. However, to achieve an acceptable flow performance at very low pressures it may be necessary to remove the combined check valve and flow regulators and replace them with simple check valves.

Supply Water Temperature Range (°C)	Min	5
	Max	85
Maximum Static Pressure (kPa)		1000
Working Pressure Range (kPa)	Min	20
	Max	500*
Permitted Supply Pressure Variation		10:1

*Tapware must be installed in accordance with the provisions of AS/NZS 3500. Installations not complying with AS/NZS 3500 may void the product and performance warranty provisions.

6.0 INSTALLATION

CliniMix® Thermostatic Progressive Mixing Taps must be installed using the appropriate Standard, Code of Practice and legislation application to each state and following the details outlined in this section.

CliniMix® Thermostatic Progressive Mixing Taps must be installed by a licensed plumber, or where applicable, a licensed plumber who has undertaken T.A.F.E. training in Thermostatic Mixing Valves.

Note: To effectively control microbial hazards during system design, installation, commissioning and maintenance, the requirements outlined in AS/NZS 3666 and local legislation shall be adhered to.

If the tap is not installed correctly then it will not function correctly and may put the user in danger. It may also void the warranty of the tap.

Prior to the installation of the tap, the system must be checked to ensure that the system operating conditions fall within the recommended operating range of CliniMix® Progressive Thermostatic Mixing tap. If the hot water supply temperature is greater than 85° Celsius, the tap may be damaged. If the temperature of the hot water will rise above 85° Celsius a suitable temperature limiting valve must be fitted to the hot water supply, prior to the inlet fittings. This temperature limiting valve must be installed as per the manufacturer's instructions. It is important that both inlet dynamic supply pressures are 500kPa or less. If either supply pressure exceeds 500kPa then a suitable pressure reducing valve must be fitted prior to the inlet control valve to reduce the pressure to an acceptable limit.

These pressure reducing valves must be installed as per the manufacturer's instructions. To achieve optimum performance from the valve it is recommended that the inlet pressures are balanced to within 10% of each other.

NOTE: In some installations, certain types of tapware devices such as flick mixers and solenoid valves are used. The water pressure may be seen to spike outside that recommended for the tap, during rapid shut off conditions with these types of devices. Even if the spike only lasts a split second it is still considered to be outside the operating conditions and may cause the tap to operate incorrectly. In the event that this does occur, measures must be taken to control the spike, such as the installation of an inline pressure reducing valve directly before the tap inlets.

To ensure that the mixing tap operates correctly, it is necessary that the pipe-work is thoroughly flushed with clean water before the tap is installed. This will remove any physical contaminants from the pipe-work, ensuring trouble-free operation. During the flushing procedure, care should be taken to prevent water damage occurring to the surrounding area.

It is a requirement of AS3500.4 that "Each thermostatic mixing valve shall have an isolating stop tap/valve, line strainer and non-return valve fitted to the hot and cold water supply lines". The inlet fittings supplied with each TMV will ensure this requirement is met. If the CliniMix® Progressive Thermostatic Mixing tap is to be installed without the supplied inlet control valves then it will be necessary to install a separate isolating valve, non-return valve and strainer to both inlets to the tap.

Strainers must be fitted to prevent any particulate contamination from entering the tap. These strainers should be 60 mesh stainless steel (0.250mm). Isolating valves are required so that the water supply to the tap can be isolated when servicing is required. Non-return devices must also be fitted to both the hot and cold inlets to prevent cross-contamination.

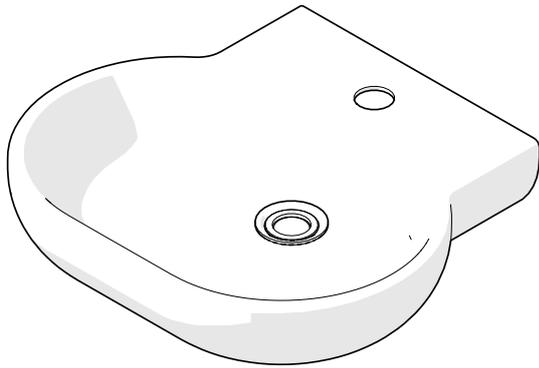
The tap should be installed so it can be easily accessed for maintenance or servicing.

During installation or servicing, heat must not be applied near the mixing tap or inlet fittings, as this will damage the tap and inlet fittings internals. Failure to comply with this requirement will damage the tap and fittings. It will put the user at risk and it will void the warranty of the tap.

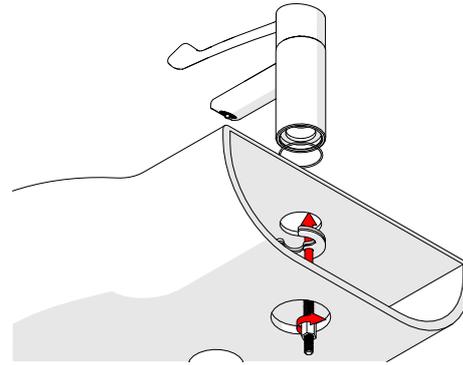
Note: The CliniMix® Thermostatic Progressive Mixing Tap is intended mainly for use in applications with set temperatures below 45° Celsius. When installed at higher set temperature, the performance may be less than specified in AS4032.4. In such situations consideration should be given to the question of whether an alternative device, i.e. a tempering valve approved to AS4032.2 would provide a greater margin for safety in reducing scalding accidents.

INSTALLATION COMPLIANCE: Galvin Engineering products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or state standards. Failing to comply with these provisions shall void the product warranty and may affect the performance of the product.

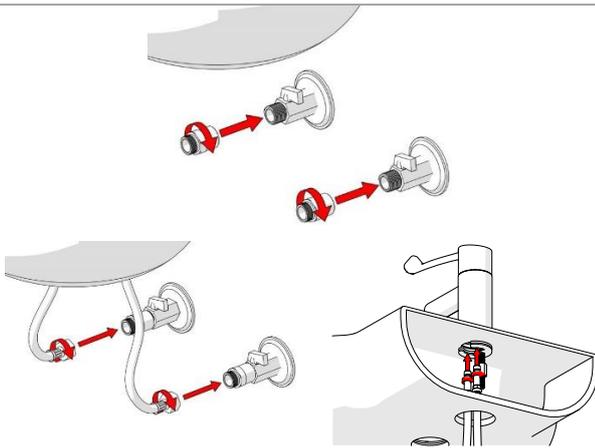
6.1 MOUNTING DETAILS



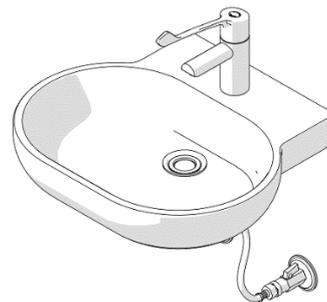
1. If the mounting hole does not already exist, mark out and cut the hole in the bench/trough



2. Fit the tap to the basin and attach using the 'C' washer and nut. Ensure the rubber washer is fitted between the 'C' washer and basin. Adjust the tap to the correct position and fully tighten the nut. Make sure the O-ring in the base has not dropped out and is in contact with basin top.

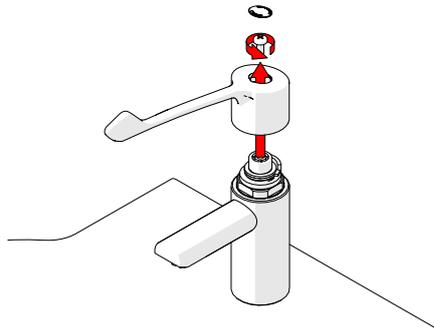


3. Install supplied isolating valves to wall spouts. Unscrew the non-return valves/strainers from the flexible hoses and screw them down on the isolating valves. Attach flexible hoses to the tap and connect to hot and cold water supply, ensuring they correspond to the markings on the bottom of the tap.

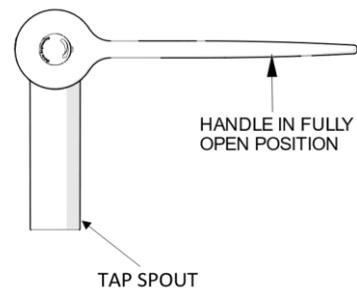


4. Turn the mixer on and test operation. Commission as per instruction.

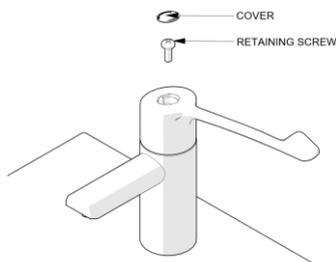
6.2 HANDLE POSITIONING



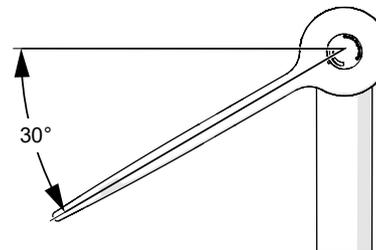
1. Fully open tap (anti-clockwise).
2. Remove the handle assembly. To prevent damage, carefully prise off plastic indicator from the handle. (Use a small flat bladed screwdriver if necessary). Use 4mm Hex key to remove holding screw.



3. Refit handle onto spline as shown.



4. Fit handles screw & tighten with a 4mm Hex Key. Finally, fit cover cap to handle.



5. Rotate handle clockwise to closed position. Handle should stop in approximate position shown.

7.0 COMMISSIONING

Initial Test for Correct Operation

The following must be checked to ensure the correct performance of the progressive thermostatic mixer:

- the supply pressures and temperatures are within the range of operating pressures and temperatures for the thermostatic tap.
- the supply temperatures are within the range permitted for the unit.

Please record the testing done during the commissioning and record the temperature of the hot and cold-water supplies and the temperature of the mixed water at the full hot setting.

A calibrated digital thermometer having rapid response time with maximum temperature hold will be required to check and set the outlet mixed temperature of the mixer.

To Commission

To test the temperature, open the tap and allow the mixed heated water to flow for at least 30 to 60 seconds so the temperature can stabilise before taking a temperature reading at the outlet with a digital thermometer. The flow rate should be at least 4L/min.

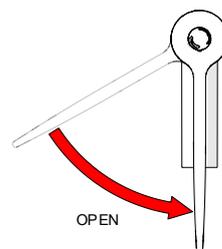
The temperature should be taken close to the mixer's outlet and if the outlet temperature requires adjustment then follow the temperature adjustment in the installation instructions.

Shut Down Test

Once the correct outlet temperature has been achieved, the tap's internal mechanism should be exercised at least 3 times by alternately shutting off the hot and cold supplies while the mixer is set in the full hot position.

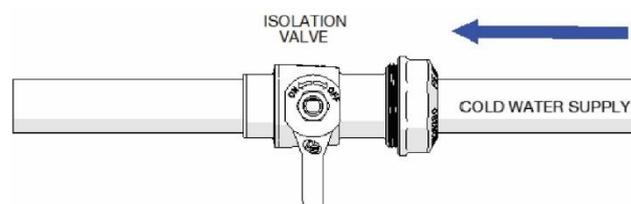
Shut Down Test 1

With the mixer still set in the full hot position and with both supplies turned on, allow the mixed water temperature to stabilise for at least 15 seconds and note the outlet temperature. While holding a digital thermometer in the outlet flow, quickly isolate the cold water supply to the tap.



Handle in open position

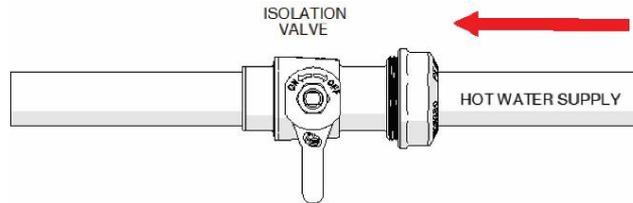
The outlet flow should quickly reduce to less than 0.75L/min following the isolation as defined in AS4032.1. Recording of the temperature should continue after isolation and should not exceed the maximum temperature set out in the applicable standard or code of practice for each state.



Restore the cold-water supply to the tap. After the mixed water temperature has stabilised note the outlet temperature ensuring the outlet temperature has re-established. The time taken to stabilise the temperature should not exceed the maximum time set out in the applicable standard or code of practice for each state.

Shut Down Test 2

With the mixer still set in full hot position and with both supplies turned on allow the flow to stabilise for at least 15 seconds and record the temperature. Quickly isolate the hot water supply to the tap.



The outlet flow should quickly reduce to be less than 0.75L/min following the isolation as defined in AS4032.1. The volume of mixed water discharged for a period of between 5-35 seconds should be measured and should not exceed the maximum volume set out in AS4032.1 or code of practice for each state.

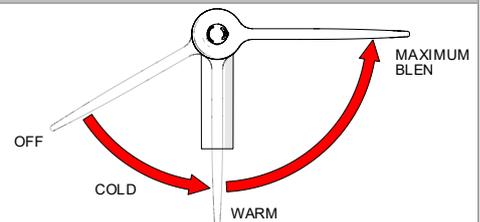
Restore the hot water supply to the tap and measure and record the outlet temperature after the mixed water temperature has stabilised. The time taken to stabilise the temperature should not exceed the maximum time set out in the applicable standard or code of practice for each state.

Ensure that all details of the Commissioning Report are completed, and a copy is kept with the installer and owner of the premises.

The tap is now commissioned, and it can be used within the technical limits of operation.

8.0 OPERATION

As the handle is rotated anti-clockwise from the off position the delivered water progresses from cold through warm to the pre-set maximum temperature of approximately 41°C



9.0 SERVICING

The need for servicing is normally identified as a result of the regular performance testing.

Application	Maximum mixed water temperature during normal operation	Permitted maximum temperature rise recorded during site testing
Washbasin	41°C	45°C

9.1 Frequency of Regular Servicing

The purpose of servicing regularly is to monitor any changes in performance due to changes in either the system or the product. This may highlight the need to adjust either the supply system or the product. These products should be checked at 6 to 8 weeks and again at 12 to 15 weeks after commissioning. The results are to be compared against original commissioning settings.

If there are no significant changes at the mixed temperature outlet then a 6 monthly servicing cycle may be adopted. Otherwise, servicing checks should be carried out more frequently (e.g. every 4 months).

Follow the recommended maintenance procedures detailed in section 10.

During servicing, note the following:

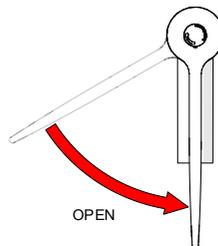
1. Repeat the procedure of recording and checking supply temperatures. (The same type of measuring equipment should be used)
2. If the temperature has changed significantly from the previously recorded temperature, the following should be checked:
 - a. All in-line or integral tap filters are clear of obstruction.
 - b. All in-line or integral check valves are clean and working properly to prevent backflow.
 - c. Any isolating valves are fully open.
 - d. The thermostat is free of debris
3. When satisfied with the mixed outlet temperatures re-record the temperatures.

9.2 General Servicing

General Servicing of the CliniMix Lead Safe™ Hob Mounted Thermostatic Progressive Basin Mixer

Prior to servicing the mixer, turn off both the hot and cold water supply.

- Ensure both the hot and cold water supplies have been isolated. Open the mixer to ensure water supplies have been isolated correctly and no water flows.

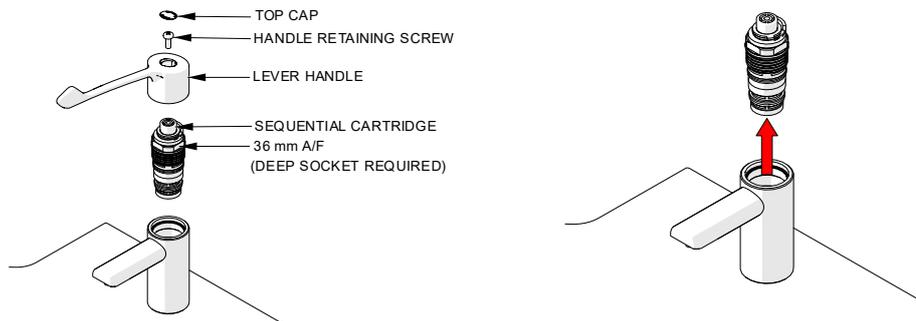


No water flows

Servicing - Strainer and Non-Return Valves

- Ensure both the hot and cold water supplies have been isolated.
- Unscrew the flexible hoses from the brass non-return/strainer body and detach the bodies from isolation valves. Using circlip pliers, remove clips from the brass fittings. Remove non-return valves and strainers.
- The strainers and non-return valves should be cleaned with a dilute water solution of suitable de-scaling solvent (such as CLR), checked for physical damage and then thoroughly rinsed with clean water.
- Replace any broken filters or faulty non-return valves.

Removal and inspection of cartridge



1. After checking that supply conditions are within the specified parameters (see table 1), if the fitting malfunctions or should the test results fail to fall within the specified limits consider replacing the cartridge with a new one. See 10.2 Important notes on debris.
2. Refer to Section 11.0 for the isolation procedure.
3. Isolate the fitting by turning the isolating valves 90° anti-clockwise (viewed facing the isolation valve).
4. Remove the lever handle. Unscrew the cartridge from the body with a 36mm AF deep socket. Clean all components thoroughly and inspect cartridge for damage. If the components are damaged, the cartridge must be replaced.
5. The cleaned cartridge (or a new cartridge, if this is required) can now be re-installed, by screwing into the mixer body until it reaches a firm stop and tightened.
6. The cartridge should be tightened to a torque of 15Nm.
7. Replace lever handle (see section 6.2) and reinstate the water supplies.
8. After fitting the new cartridge, perform the commissioning procedure (Section 7.0).

When service is complete, slowly open the cold water isolation valve and inspect mixer body for leaks. Repeat with hot water isolation valves. Open the mixer by rotating handle anti-clockwise and check operation and flow. Commence commissioning process.

Annual Maintenance Procedure

- Every 12 months the thermostatic mixer must be inspected & tested. The tap should be inspected for leaks or water damage and appropriate action taken if required.
- Carry out the general servicing of the tap as set out in this document
- A thermal shut down test is performed (Shut Down Test 1 and 2 as set out in this document), and the temperature is reset as required.
- If the tap fails to shut down or fails to maintain its set temperature, then refer to Troubleshooting section.

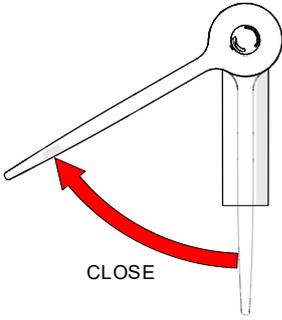
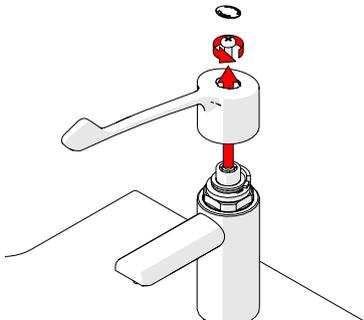
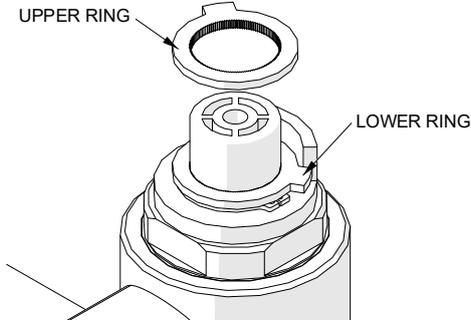
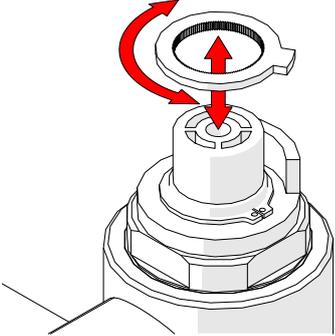
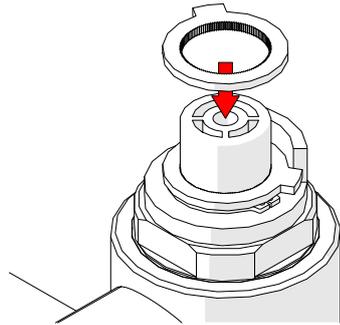
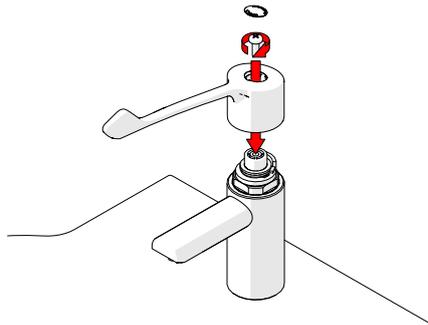
5 Year Maintenance Procedure

- Every five years the thermostatic mixer needs to have a full service carried out. This service consists of the same procedure as the 'Annual Maintenance Procedure' listed plus the thermostatic mixer cartridge must be replaced.
- After replacing the thermostatic mixer cartridge, a thermal shut down test is performed, and the temperature re-set as required. If the tap fails to shut down or fails to maintain its set temperature, then refer to the troubleshooting section.
- Once the 5 yearly maintenance procedure is complete, the thermostatic mixer should then be commissioned as per instructions.

10.0 MAINTENANCE

When installed as an AS/NZS 4032.4 application it is a requirement that the commissioning (section 7.0) and maintenance procedures are carried out before use.

10.1 Adjustment of the mix temperature

 <p>1. Close the tap.</p>	 <p>2. Remove top cap, screw and handle, ensure that the cartridge is closed</p>	 <p>3. Remove the upper brass ring (closure setting ring). Make sure the control rod doesn't rotate.</p>
 <p>4. Remove the lower brass ring (temperature setting ring) and rotate the brass ring clockwise to increase temperature or anti-clockwise to decrease.</p>	 <p>5. Reposition the upper ring in the same position.</p>	 <p>6. Test the set temperature. If the temperature is acceptable, reposition the handle (section 6.2), the screw and the top cap otherwise repeat from step 3 to 6.</p>

10.2 Important notes on debris

Although this product is protected by built-in filters, debris can still find its way to the thermostat housing area. This can happen during servicing for example. Remove cartridge (see section 9.2) and carry out an inspection.

10.3 Maintenance cleaning

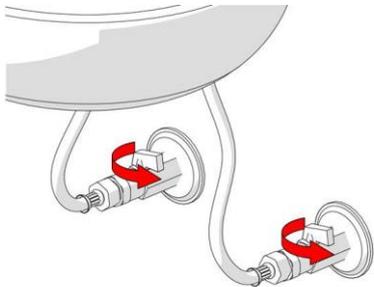
On a regular basis the anti-splash nozzle should be inspected and cleaned if necessary. This should be done immediately before sterilising is carried out.

In areas where lime scale build-up is prevalent this will have to be removed. An inhibited proprietary scale solvent can be used such a kettle descaling solvent, but it is important to follow the manufacturer's guidelines. After descaling it is important to rinse the parts thoroughly in clean water. Clean carefully and do not use abrasive materials or scrapers.

11.0 DISINFECTION

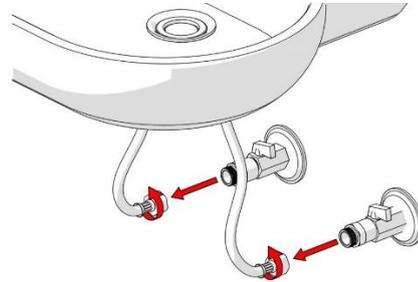
Swapping the hoses allows a service technician to feed water from the hot water source into the cold inlet. This hot water then passes through the cold inlet, the thermostatic mixing chamber and out through the mixed water outlet.

Safety Note: Care should be taken when carrying out the following procedure to avoid contact with hot water and hot surfaces. We recommend the use of protective hand wear.



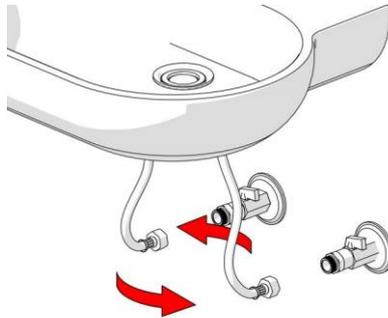
1. Isolate water supply

- Turn both handles clockwise until they're fully off.



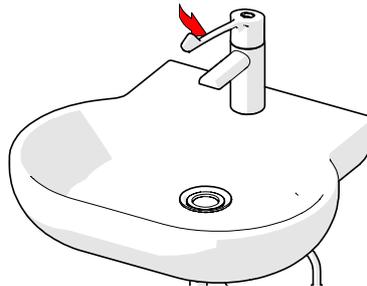
2. Remove hoses

- Using a spanner, turn both hose nuts anti-clockwise and remove.



3. Swap Hoses

- Swap the hoses. Attach the cold hose on the hot outlet and the hot hose on the cold outlet.
- Turn the hot inlet tap anti-clockwise to enable hot water flow.



5. Disinfection Process

- Turn the tap handle anti-clockwise fully.
- Hot water will now pass thru the cold inlet and into the thermostatic mixing chamber (exiting the mixed outlet).
- Run water for the correct disinfection time as shown in Table 4.

Temperature	Disinfection
60 degrees	30 Minutes
65 degrees	15 Minutes
70 degrees	10 Minutes

Table 4 - Guide to disinfection temperatures v/s time

⚠ To avoid scalding/burning, keep clear of the mixed outlet.

6. Cool Down Unit

⚠ This unit becomes very hot during operation. Extreme care should be taken when reversing hoses.

⚠ Ensure the unit is cool to touch before reassembly.

- After the required disinfection time, turn the tap handle to the off position.
- Repeat steps 1 to 3 and return the hoses to their original position.
- Check tap for correct operation.

12.0 TROUBLESHOOTING

PROBLEM	CAUSE	RECTIFICATION
The desired mixed water temperature cannot be obtained, or tap is difficult to set.	<ul style="list-style-type: none"> - Hot and cold supplies are fitted to the wrong connections - Thermostatic cartridge contains debris or is damaged - Strainers contain debris - Non-return devices are damaged 	<ul style="list-style-type: none"> - Refit the hoses with Hot/Cold supplies fitted to the correct connections - Clean the Cartridge ensuring that all debris is removed, and components are not damaged. Replace if necessary - Clean strainers ensuring debris is removed - Check non-return device is not jammed. Clean or replace if necessary - Check for airlocks in the water supply
When the top handle is set at cold, the blended temperature is too hot	<ul style="list-style-type: none"> - Hot & Cold water supply connections are installed in reverse. 	<ul style="list-style-type: none"> - Refit the hoses with Hot/Cold supplies fitted to the correct connections
The thermostatic mixing tap will not shut down during testing.	<ul style="list-style-type: none"> - The hot to mix temperature differential is not 10°C or greater - Thermostatic cartridge contains debris or is damaged - Non-return devices are damaged 	<ul style="list-style-type: none"> - Raise hot water temperature - Clean the cartridge ensuring that all debris is not jammed. Clean if necessary
Mix temperature unstable	<ul style="list-style-type: none"> - Flow rate below 6L/min - Thermostatic cartridge contains debris or is damaged - Strainers contain debris - Non-return devices are damaged 	<ul style="list-style-type: none"> - Rectify any pressure deterioration - Clean the cartridge ensuring that all debris is removed and components are not damaged. Replace if necessary - Clean strainers ensuring debris is removed - Check non-return device is not jammed. Clean or replace if necessary
Mix temperature changing over time	<ul style="list-style-type: none"> - Strainers contain debris 	<ul style="list-style-type: none"> - Clean strainers ensuring debris is removed
Either full hot or cold flowing from outlet fixture	<ul style="list-style-type: none"> - The upper temperature ring is incorrectly set - No flow from Hot and Cold supplies – damaged check valves - Refer also to fault/symptom 1 & 2 	<ul style="list-style-type: none"> - Re-set temperature to between 35-48°C as required - Replace faulty check valves
Water is not flowing from outlet	<ul style="list-style-type: none"> - Hot or cold water failure - Thermostatic cartridge contains debris or damage - Strainers contain debris 	<ul style="list-style-type: none"> - Restore inlet supplies and check mix temperature - Clean the cartridge ensuring that all debris is removed and components are not damaged. Replace if necessary - Clean strainers

13.0 WARRANTY

Galvin Engineering products are covered under our Manufacturer's Warranty. Galvin Engineering products must be installed in accordance with the installation instructions and in accordance with AS 3500 and NCC Volume Three, relevant Australian Standards and local authorities applicable to product being installed. Water and electrical supply conditions must also comply to the applicable national and/or state standards, failing to comply with these provisions may void the product warranty and affect performance of the product.

Please visit www.galvinengineering.com.au to view the full warranty, our Installation Compliance and Maintenance & Cleaning information as well as any other additional information.

14.0 APPENDIX

THERMOSTATIC PROGRESSIVE MIXING VALVE COMMISSIONING AND/OR MAINTENANCE

Note: In all cases the Licensee is to submit this report within seven working days after commissioning and/or servicing the valve.

1. Use a separate form for each valve.
2. The original report is to be given to the owner/occupier and retained on site for a minimum of 7 years.
3. All details are to be filled in. Incomplete reports will not be accepted.

PRINT ALL DETAILS or MARK WITH AN X IN BOXES TO INDICATE CHOICE

Name of Facility					
Street Address					
Suburb		State		Post Code	
Phone #		Contact Name			
Date		Work Order #			
Make & Model of Hot Water Unit					
Make of Mixing Valve		Model No			
		Size			
Valve ID No.		Total No. of Mixing Valves on Site/Building			
Valve Location / Building					
Area serviced by value					
Outlet type (mark with X)	Basin <input type="checkbox"/>	Shower <input type="checkbox"/>	Bath <input type="checkbox"/>		
Valve installed to requirements of:					
1. The local water supply Authority		2. The valve manufacturer / supplier requirements		3. The Australian Standards for Plumbing and Drainage	
<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> YES	<input type="checkbox"/> NO
If NO, give details and action taken:					
Hot Water	Pressure (kPa)		Cold Water	Pressure (kPa)	
	Temp (°C)			Temp (°C)	

