

Version 5, 18 November 2024, Page 1 of 17 Document No.: TZ-FLOWTMSHWINR

GalvinCare[®] Electronic Mental Health Concealed Shower Mixer with GalvinCare[®] Handle & Controller PRODUCT CODES: - TZ-FLOWTMSHWINR

SPECIFICATIONS

- GalvinCare[®] Electronic Mental Health Concealed Shower Mixer provides the complete antivandal, anti-ligature solution. The unique electronic valve assembly provide a precise delivery of water, and is specifically designed for prisons, mental health facilities and other custodial establishments. The adjustable temperature control handle allows users to adjust from a cold water option to the set hot temperature.
- This item is designed for wall installation and has bevelled edges to provide tight fixing
- GalvinCare[®] Electronic controller is a 24V AC electronic control system allowing connection of up to 2 button inputs and up to 2 solenoids (single solenoid only for shower flushing units). Controller is pre-programmed and ready to use. The solenoids will open for a specific time once the appropriate button is pressed. The standard program can be modified to suit individual

needs. To modify the operation settings a compatible Android device with Bluetooth is required.

IMPORTANT: All GalvinCare[®] tapware is tested in accordance with AS/NZS 3718 and leave our premises in good working order.

TECHNICAL DATA			
	Туре		Transformer
Power Supply	Input		230-240V – 50Hz
	Output		24V AC 0.9AMPS 22VA
	Cable length		3m
Solenoid	Input Voltage		24V – 50Hz - 60Hz
	Power Consumption		8W
	Cable length		5m
	Connection	Inlet	1/2" BSP - Female
	Connection	Outlet	1/2" BSP - Male
	Туре		IP68 24V
Sensor	Activation		Push Button
3611501	Connections		2 pin connector
	Cable length		5m
	Input Voltage		24V AC
Controller	Program type		Flowmatic
	Connections		2 pin connectors
Shower Mixer	Inlets		1/2" BSP - Male
	Outlet		1/2" BSP - Female
	Pressure Range (kPa)	Min	100
Whole Unit (kit)		Max	500
	Temperature (°C)	Min	5
		Max	90
Headwork			Solenoid
Finish (user)			Chrome
Marking Proposite Bongs (PD-	`	Min	100
Working Pressure Range (kPa)		Max	500
Working Temperature Range (°C)		Min	5
		Max	90

_

TOOLS REQUIRED

- Power drill

Spanner or adjustable crescent

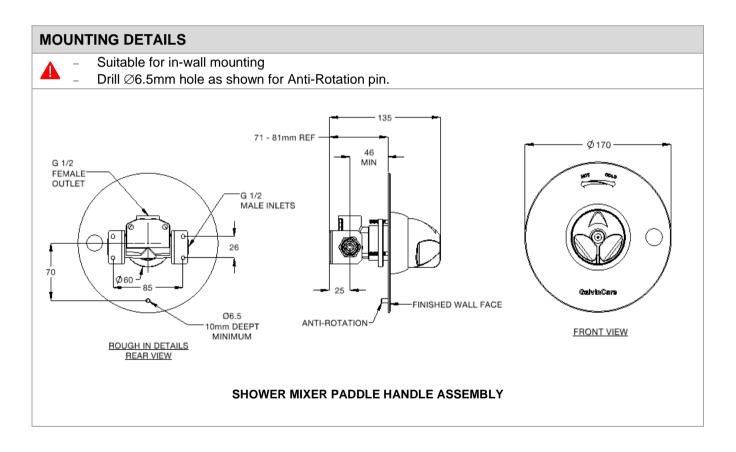
PRE - INSTALLATION

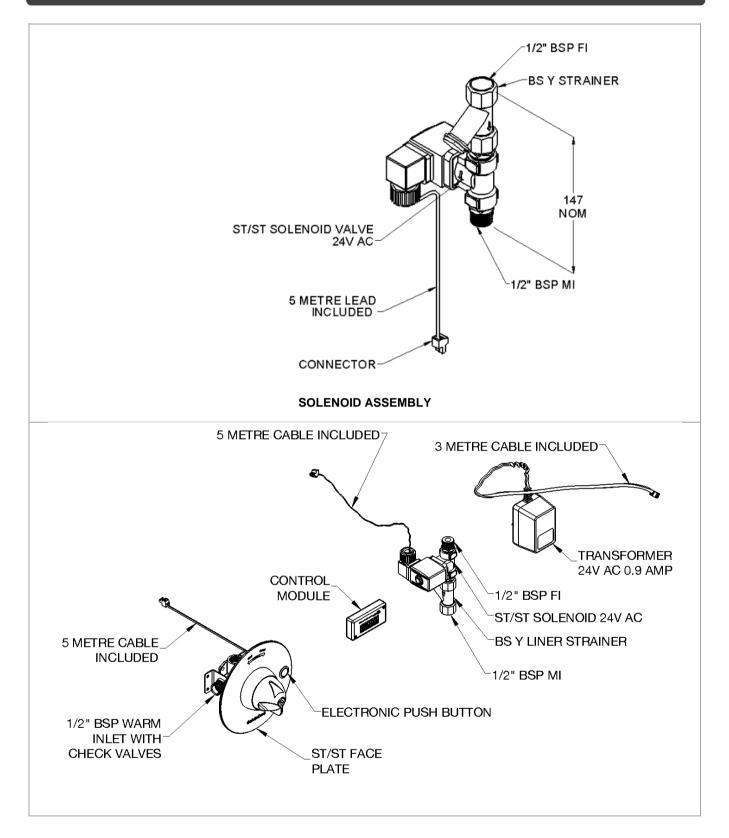
IMPORTANT:

- **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 (Refer supplied installation compliance sheet with the product).
- Pipe sizing shall comply with AS/NZS 3500.1 and shall be hydraulically calculated.
- Before proceeding with installation first check the solenoid valve supplied is suitable for the site water pressure and conditions. If your water pressure is outside the stated range, please contact Galvin Specialised.
- Ensure all supply lines are flushed thoroughly to remove debris prior to the installation of this product. A line strainer is supplied to protect the solenoid valve from debris.
- We recommend a thermostatic mixing valve is used to provide premixed water to the valve and pressure reduction valve may be required to comply with recommended maximum supply pressure.
- Ensure that access to the push button, solenoid valve and transformer/GPO is available for future maintenance when installing the components. It is recommended that isolating valves be installed upstream to the solenoid valve to allow for servicing. All wiring must be able to be removed when installed into cavities or walls, therefore, it is recommended that a minimum of 25mm conduit be used to house the leads. The unit is supplied with 3 meters of lead on the transformer and 5 meters from the solenoid. Additional lead lengths may be accommodated up to a length of 5m but must be ordered separately.
- Whilst our product designs consider a broad range of installation types and surfaces, it is important that surfaces which fixtures are mounted to are flat and free from defect. This is especially important for our *GalvinCare®* range where special attention is required to minimise ligature points and areas for concealment of contraband. In addition to ensuring the products are fitted securely and in accordance with the following instructions, consideration shall be given to the use of non-pick mastics such as BASF Sonolastic "Ultra" to ensure a high quality and safe installation.
- Most installation problems are due to damage to the unit during installation or the selection of an
 inappropriate installation location. Select the location carefully and take care with the installation, consider
 ease of operation for the end user.

GENERAL INSTALLATION REQUIREMENTS

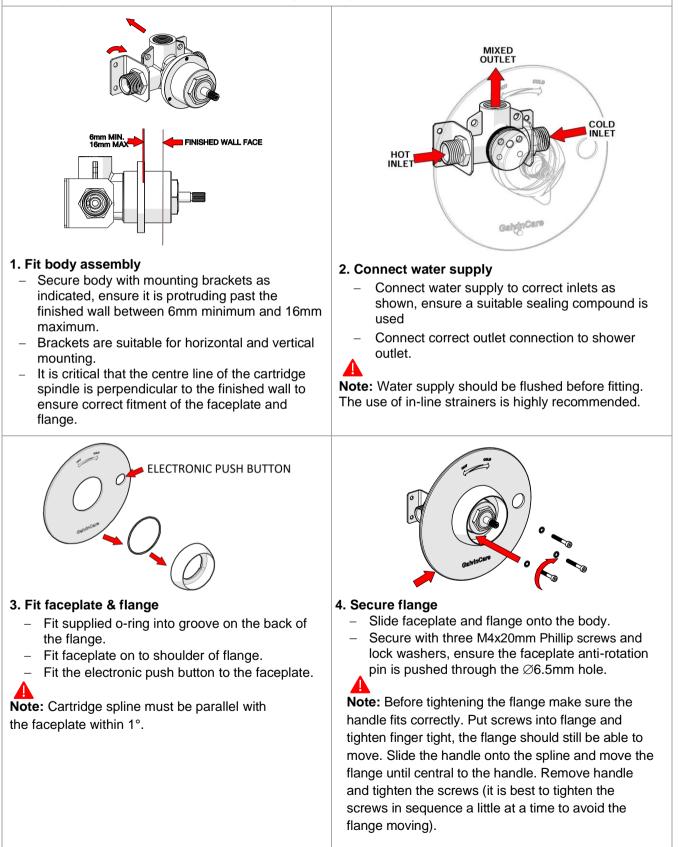
- Do not cut the wires or extend the existing leads without using a correct lead extension from Galvin Specialised, as this will void warranty.
- Suitable access to the service of all components must be provided.
- It is recommended that acoustic dampening products or materials be used in facilities where increased levels of sound protection are required. A water hammer arrestor may also be required.
- The number of valves and simultaneous demand must be considered when sizing pipes. If other fixtures are connected to the supply line, calculations of flow rates and pressures must be undertaken to ensure adequate water supply.
- Limit the number of changes of directions in pipe work. This will result in less friction loss, better valve performance and reduce potential water cavitation noise.
- We recommend fitting isolating valves before solenoid for easy servicing.
- Do not apply heat near this product during the connection of water line. Heat generated by soldering could damage plastic or electrical parts and seals and will void the warranty.
- For personal installation assistance and spare parts, please call our head office on 1300 514 074 and speak to our customer service staff.

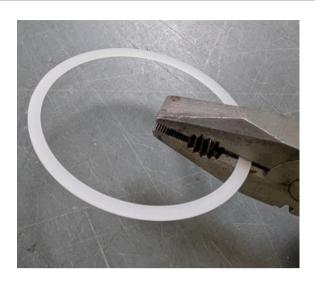




INSTALLATION

IMPORTANT: 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.

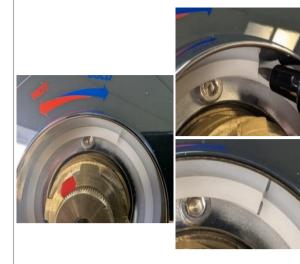




5. Acetal washer initial cut

 Create a cut on one of the two provided Acetal washer circumference as shown. Make sure the cut line is pointing towards washer center. The other washer will be a spare part.

Note: To ensure the washer retains its form and achieves its best fitment, cutting of the washer is required during installation.



6. Acetal washer marking

- Place the split washer inside the flange on top of the 3 bolts as shown.
- Mark the overlapping part of the split washer as shown.



Note: Make sure the washer is positioned concentrically from the assembly.

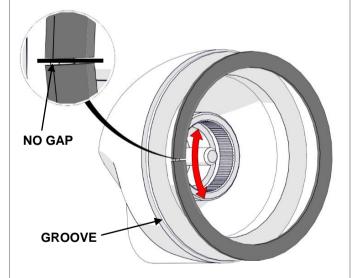




7. Acetal washer final cut

 Take the split washer out of the assembly, cut it at the designated mark, and then put it back into the flange. Finally, check to make sure there's no space between the washer and the flange, and that the washer is positioned correctly.

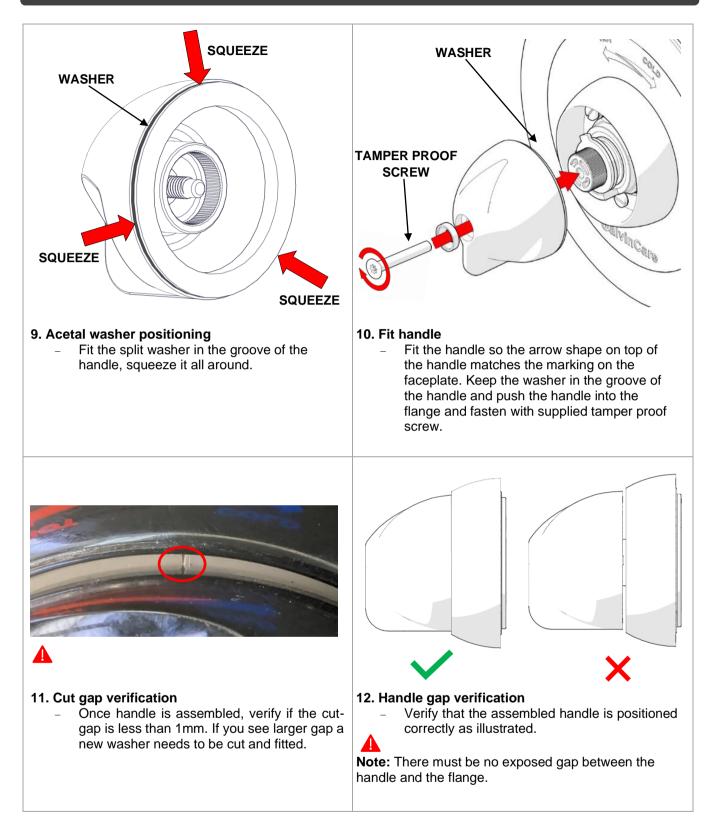
Note: Make sure the washer is positioned concentrically from the assembly.

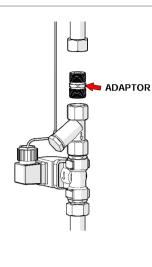


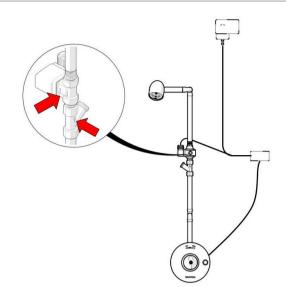
8. Acetal washer placement

- Stretch the split washer gently and fit it into the groove.

Δ







13. Connect water

- Connect the water supply to the strainers and turn on water supply. Check for leaks.
- Adaptors supplied by the installer must be in accordance with AS/NZS 3500.

Note: Do not apply heat near this product. Heat generated by soldering could damage plastic or electrical parts and seals and will void the warranty.

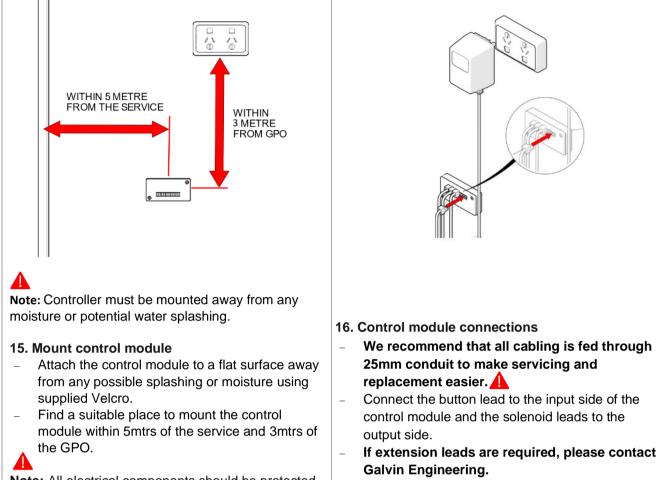
14. Connect solenoid

- Connect solenoid assemblies to the outlet as shown and in accordance with AS/NZS 3500.
- Ensure that the solenoid is installed in the correct direction (the arrow on the solenoid body must align with the direction of water flow).
- Line strainers are supplied attached to the solenoid valves. Removal of these strainers may void the warranty.

A

Note: Ensure no thread tape, copper swarf, sand or other debris enters and fouls the solenoid valve.

Note: Make sure solenoid valve is orientated such that the electrical wiring is not twisted and connectors are easily accessible.

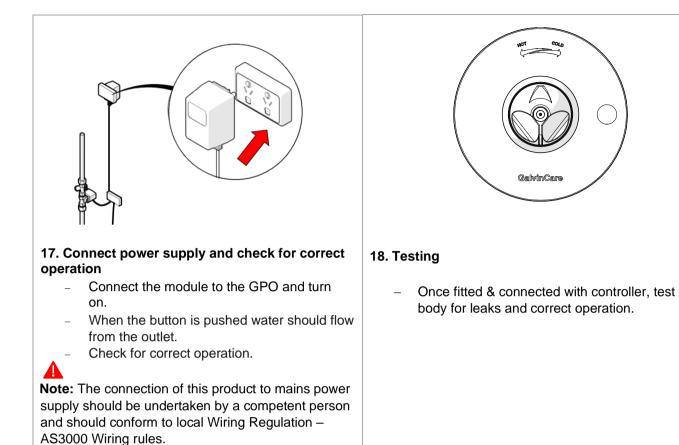


А

Note: All electrical components should be protected from contact with water or excessive heat and installed in accordance with local regulations.

Note: Flowmatic Control Module is programmed as per standard settings for a main flushing system.

Note: Do not cut the leads. If the leads are too long, it is recommended that any excess is coiled up and clipped to the wall.



SERVICE AND MAINTENANCE

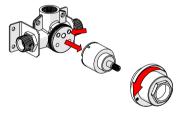


1. Turn off water

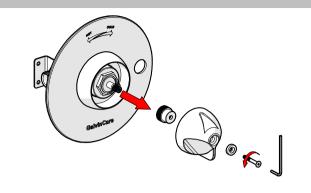
- Turn off the water supply and turn on the tap handle to release any pressure in the lines
- Disconnect the plug from controller
- Disconnect cold, hot and inlet water connections



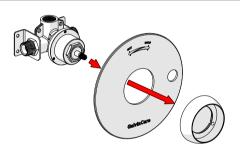
3. Remove flange screws Unscrew the flange screws



- 5. Remove cartridge nut and check cartridge
- Unscrew cartridge nut and remove cartridge.
- Check the cartridge for wear and damage.
 Replace if required with cartridge replacement available through your supplier
- Check and clean the body of all debris



- 2. Remove handle assembly
- Unscrew tamper proof screw from handle
- Pull out handle assembly from the body



4. Remove faceplate (with button) and flange



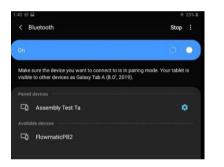
6. Re-assemble

- Re-assemble, by reversing steps 5 to 1.
- When re-assembling, do not overtighten support nut (12-13Nm).
- Ensuring sealing compound is used when connecting water supply and outlet.
- Turn on water and check for correct operation

CONTROL MODULE PROGRAM MODIFICATION

Required to make changes to the controller settings :

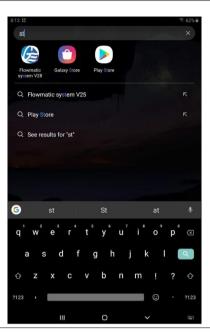
Android device (e.g. smartphone, tablet). Installed software from PlayStore 'Flowmatic system'.



Establish Bluetooth connection

Go to the Bluetooth settings on your device then scan for devices. Generally, when scanning the first thing to come up in available devices will be a Mac address that looks like this example (AB:EC:69:57:34:02). This will eventually change to the name of the device, which is from factory set as 'FlowmaticPB2' (This later can be changed to a custom name in the app).

Select this device.

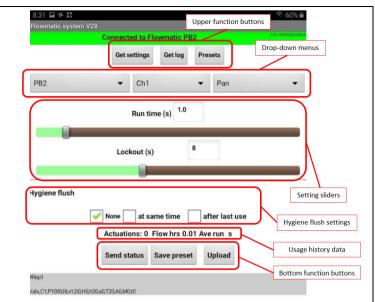


	± 25%
Bluetooth pairing request	
Enter PIN to pair with FlowmaticPB2.	

Entering the pin

The device will ask for a pin, which from factory is '1234'. (This pin can be changed later in the app.). Your device is now connected to the controller, and is ready to be adjusted from the 'Flowmatic system' app.





Changing controllers settings

Open the Flowmatic system' app. The device will appear on the screen. with Mac Address first and then controller name e.g. 'AB:EC:69:57:34:02 FlowmaticPB2'. Select the Flowmatic PB2, this will then update the controllers time clock, and then open the setting screen.

Setting screen overview.

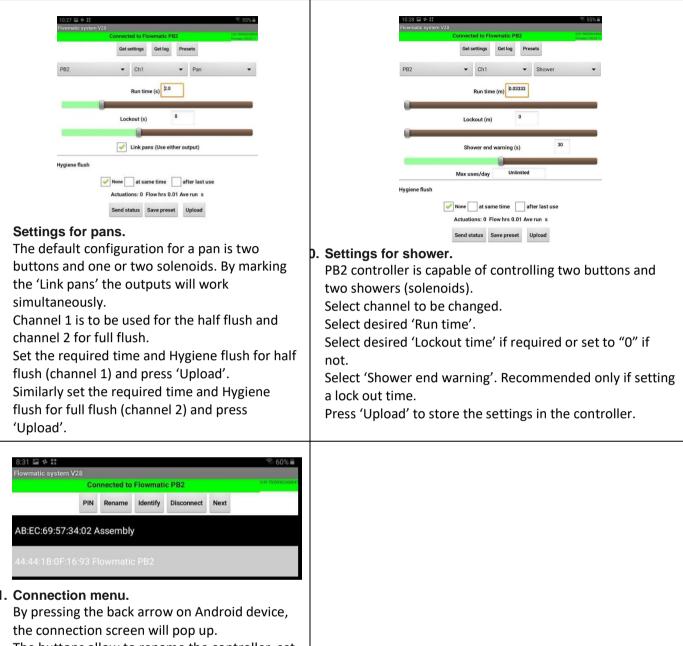
Upper function buttons. By pressing the 'Get settings' button the currently stored parameters in the controller's internal memory will be downloaded to the app. The 'Get log' button will pop up the log data screen. The 'Presets' button will list all saved presets.

Drop-Down menus. First menu from left is to select the type of controller the app is connected to. The second menu is to select which 'channel' is going to have parameters changed. The third menu is to declare what is the controlled feature designed for.

Setting sliders. Depending on the selected controlled feature there will appear one, two or three setting sliders. **Hygiene flush setting** menu allows to set the time and intervals of hygiene flush.

Bottom function buttons are to be used to manage the controller internal memory.

10.27 • 4 • 1 10.27 • 4		
Pan Send status Save preset Upload Type of controller (left drop-down menu) Chanel select (middle drop-down menu) Chanel select (middle drop-down menu) For the PB2 controller only the PB2 selection is correct. Please do not change the selection for the PB2 controller The PB2 controller has two built in channels. They may be used as half flush and second channel as full flush for a pan.	Connected to Flowmatic PB2 B2 Run time (s) 20 Product Wave Proximity PB2 Flusher Urinal Pan ype of controller (left drop-down menu) or the PB2 controller only the PB2 selection is or the PB2 controller only the selection for me PB2 controller	Get settings Get log Presets PB2 Ch1 Pan Run time (s) 20 Lockout (s) 8 Link pans (Use either output) ig Ch1 Ch1 Ch1 Ch1 Ch1 Ch1 Ch1 Ch2 Send status Send status Save preset Upload Send status Send status Save preset Upload <t< td=""></t<>
Designated feature drop-down menu The PB2 controller can be used for showers, basins and pans. Depending on the feature selected setting sliders will appear. (e.g. there is only 'Run' time to be set for basin, 'Run' and 'Lockout' times for pans and there is 'Shower end warning' time for showers) Set the channel no. of the solenoid and activation buttor to be changed. Set the required water flow 'Run time' in seconds for the basin. Set the Hygiene flush parameters if required. Press 'Upload' to upload the settings to the controller. The controller can be used in configurations: one buttor on en solenoid, one button – two solenoids or two buttor two solenoids.	Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set S	PB2 Ch1 Basin Run time (s) 15 Hygiene flush Send status Save preset Upload the channel no. of the solenoid and activation button button be changed. the required water flow 'Run time' in seconds for the sin. the Hygiene flush parameters if required. ss 'Upload' to upload the settings to the controller. e controller can be used in configurations: one button - two solenoids or two buttons



The buttons allow to rename the controller, set new PIN, disconnect or go to setting screen 'Next'.

TROUBLESHOOTING				
PROBLEM	CAUSE	RECTIFICATION		
Faceplate does not sit flush on wall	Diverter not mounted perpendicular to wall	Remove and re-mount so the mixer body is perpendicular to finished wall		
Handle rubs against the flange	The faceplate is not perpendicular to cartridge spline within 1°	Remove and re-mount properly ensuring faceplate is within 1° perpendicular to cartridge spline.		
Water flow does not match faceplate markings	Handle not aligned correctly to faceplate	Remove handle and rotate on the spline until handle matches faceplate. Re-tighten		
	Outlet on body not connected to the correct service outlet	Change outlet connection on body		
No water flow	No power	Check power to transformer is on.		
	Faulty solenoid valve	Check electrical connections, Replace solenoid valve		
	Water or structural damage to electrical components	Replace damaged electrical components		
	Incorrect connections	Check all connections		
	Damage to push button lead or power supply lead	Check and replace lead & controllers		
	Pressure exceeding 500kPa	Reduce pressure to solenoid to 350 kPa		
	Water corroded electrical connections	Replace electronic components		
Continuous water flow	Solenoid valve jammed open	Remove obstruction from solenoid valve		
	Solenoid installed incorrectly	Reinstall valve correctly		

© Galvin Engineering Pty Ltd

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

In the absence of a legal or industry definition of anti-ligature or ligature resistant products, when we use these terms, we are referring to products that are designed and manufactured with the intention of reducing the risk of ligature attachment to the product(s).

Galvin Engineering Pty Ltd will always endeavour to design and test our anti-ligature product(s) to reduce the risk of product ligature attachment that may result in serious injury or death.

Whilst all reasonable measures are taken at the time of design, the anti-ligature design of the products are not intended to and will not:

- a. Replace protective measures that need to be taken in the specific circumstances of usage.
- b. Substitute the need for supervision of those who may be at risk.
- c. Protect and or prevent those at risk against any self-harm instances that may occur when installed; and

d. Protect and or prevent injury when the risks where unknown to us at the time of the design of the product(s).

Galvin Engineering Ptv Ltd does not offer and does not represent or warrant that any product(s) for sale that are ligature-free.

Therefore, Galvin Engineering will not be liable for any claims, loss, or damages arising from ligature attachment on our products. It is the purchaser's responsibility to ensure that products purchased and installed are suitable for the environments in which they are installed, and suitable supervision and protective measures are in place to protect those at risk.

