

WaterMark

AS/NZS 3718 Lic WMKA0034 SAI Global

Safe-Cell[®] Electronic Prison Ducted Single Temperature Basin Assembly with Controller

PRODUCT CODE:

TZ-FLOWTBAS1DT

SPECIFICATIONS

- Safe-Cell® Electronic Prison Ducted Single Temperature Basin Assembly provides the complete anti-vandal, anti-ligature solution. The unique electronic valve assembly provides a precise delivery of water, and is specifically designed for prisons, mental health facilities and other custodial establishments.
- 4mm thick exposed stainless steel faceplate to suit back mounted applications and face plate features push activation buttons. Plates have no front penetrations and are fixed from the duct.
- Basin Controller unit comes with stainless steel water hammer resistant 24V AC solenoids
- Safe-Cell[®] 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 single temperature basin assembly units). Controller is pre-programmed and ready to use. The solenoid will open for a specific time once the button is pressed. The standard program can be modified to suits individual needs. To modify the operation settings a compatible Android device with Bluetooth is required.

TECHNICAL DATA			
Power Supply	Туре		Transformer
	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	½" BSP - Female
	Connection	Outlet	1⁄2" BSP - Male
		Min	100
	Pressure Range (kPa)	Max	500
	Temperature (°C)	Min	5
		Max	90
Sensor	Туре		IP68 24V
	Activation		Push Button
	Connections		2 pin connector
	Cable length		5m
Controller	Input Voltage		24V AC
	Program type		Flowmatic
	Connections		2 pin connectors
Finish (user)			Stainless Steel
Nominal Flow Rate (LPM)			N/A

NOTE: Galvin Specialised continually strive to improve their products. Specifications may change without notice.



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PRE - INSTALLATION

IMPORTANT: 🛕

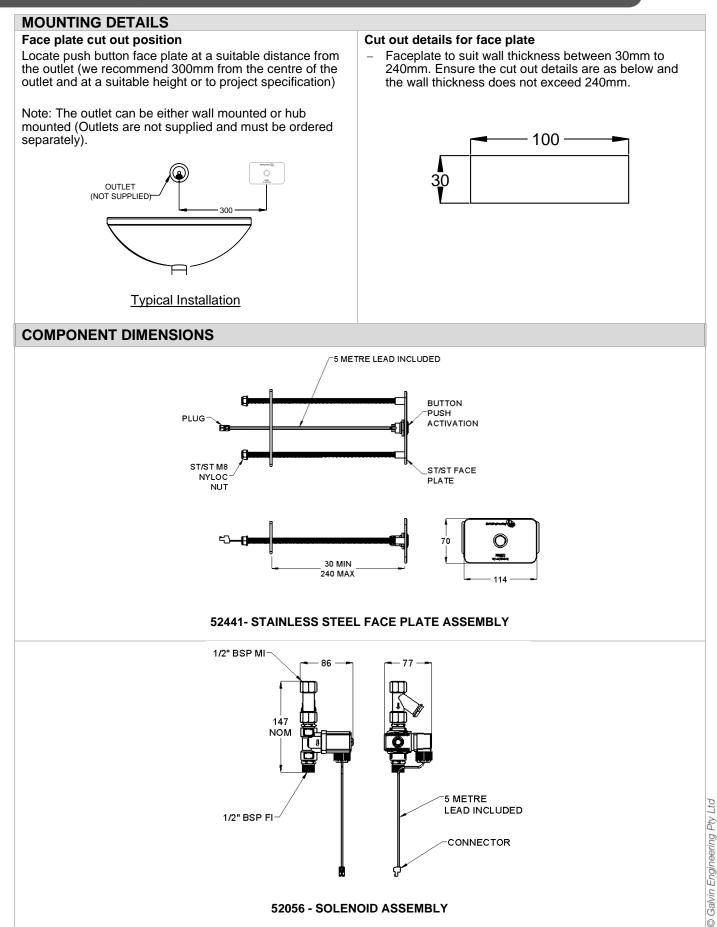
- INSTALLATION COMPLIANCE: Galvin Specialised products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or 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 recommended 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 5 meters of lead on the transformer and a 5 meters lead 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 Safe-Cell[®] 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 extended 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 recommended fitting isolating valves before solenoid for easy servicing.
- Do not apply heat near this product during connecting 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.

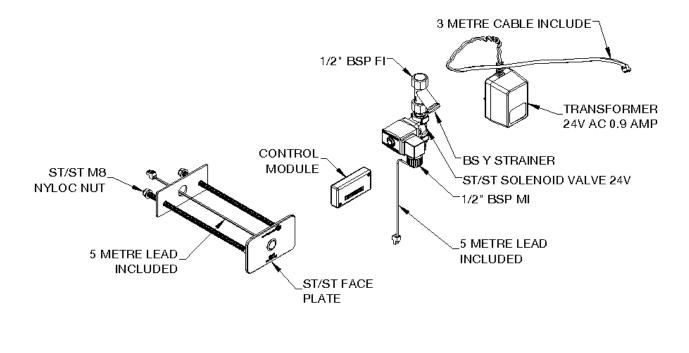


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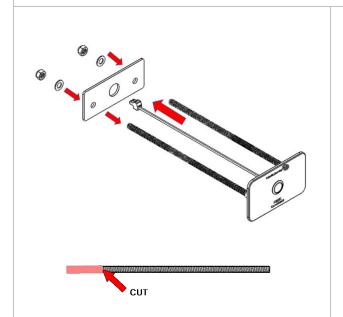


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INSTALLATION

Avoid common installation errors :

- Incorrect supply pipe size installed.
- Non-compliance to Australian Standards.
- Water pressure not tested before installation

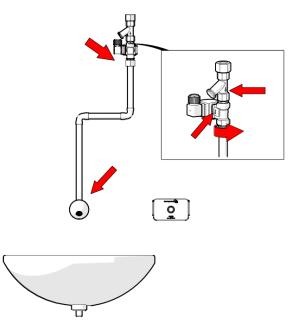


1. Mount face plate

- The stainless steel face plate is always mounted flush to the wall.
- Mount faceplate to the wall using the back plate and nyloc nuts (Do not over tighten max.35 Nm).
- Cut the studs to suit if required.
- Ensure button leads are pushed through the centre hole in back plate before tightening the nyloc nuts and apply a thin bead of silicon on the edge of the wall cut out.
- If extension leads are required, please contact Galvin Engineering.

Do not force the faceplate to fit onto wall or attempt to dissamble components, as this could result in damage to sensor push button.

- Lines not flushed before installation.
- No access for service.
- Valve not commissioned properly.

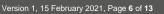


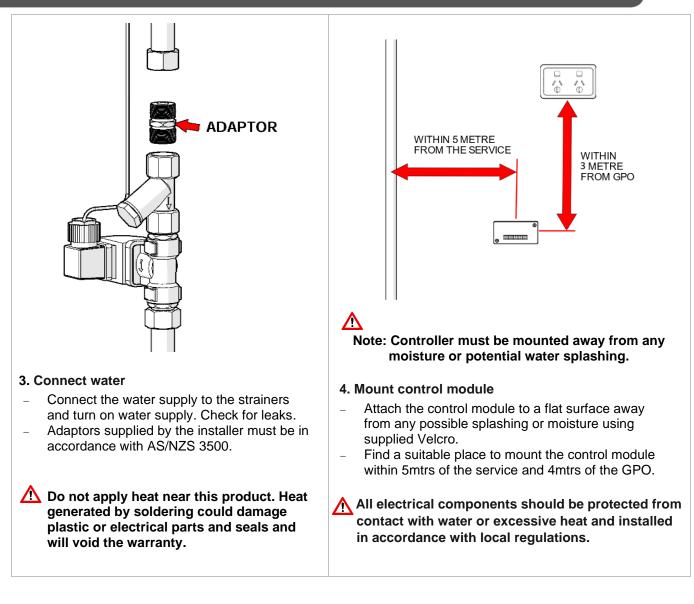
2. Connect solenoid

- 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.
- ▲ Ensure no thread tape, copper swarf, sand or other debris enters and fouls the solenoid valve.
- Make sure solenoid valve is orientated such that the electrical wiring is not twisted and connectors are easily accessible.

<u>Note:</u> Refer to solenoid operating instructions manual for installation and service maintenance.

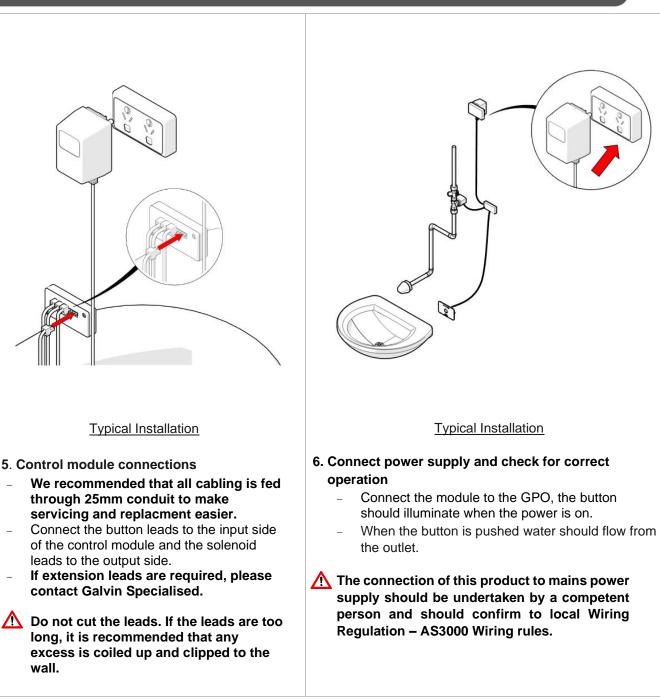








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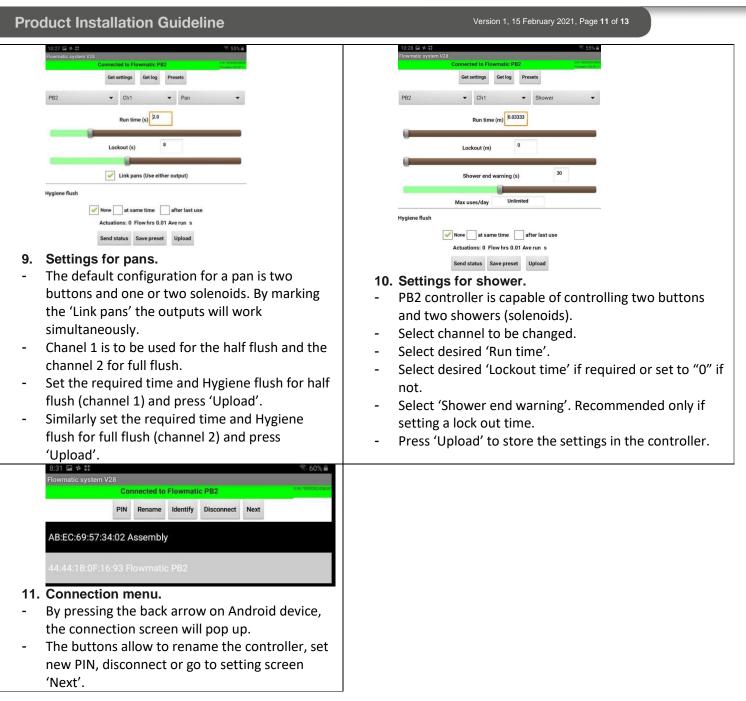
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	8:31 🖬 🕫 🟥 👻 Upper function buttons			
1:40 🖬 🐵 🕹 25% ≗ Flowmatic Bluetooth system V25	Flowmatic system V28 Connected to Flowmatic PB2 SN REMOVANTS			
Not connected to a Bluetooth device.	Get settings Get log Presets Drop-down menus			
Identify Rename Disconnect Settings	PB2 Ch1 Pan V			
AB:EC:69:57:34:02 Assembly Test Ta	Run time (s) ^{1.0}			
44:44:1B:0C:06:9D FlowmaticPB2 3. Changing controllers settings	Lockout (s) 8			
 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. 	Hygiene flush Setting sliders Image: None at same time after last use Hygiene flush settings Actuations: 0 Flow hrs 0.01 Ave run s Usage history data Send status Save preset Upload Image: Rep1 Bottom function buttons Vals,C1,P1000J8x1,D0H0h20a0,T20,A0,M010 Setting sliders			
	 4. Setting screen overview. Upper function buttons. By pressing the 'Get settings' button the currently stored in controller's internal memory parameters 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 allow to set the time and intervals of hygiene flush. Bottom function buttons are to be used to manage the controller internal memory. 			



Product Installation Guideline	Version 1, 15 February 2021, Page 10 of 13		
<image/>	 Set the channel no. of the solenoid and activation button to be changed. Set the required water flow 'Run time' in seconds for the basin. Set the Hygiene flush parameters if required. Set the Hygiene flush parameters if required. Press' Upload' to upload the settings to the controller. 		
 correct. Please do not change the selection for the PB2 controller If a selection of the presence of	 The PB2 controller has built in two channels. They may be controlled independently or one of the channels to be used as half flush and second channel as full flush for a pan. 1028 • • • • • • • • • • • • • • • • • • •		







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TROUBLE SHOOTING				
PROBLEM	CAUSE	RECTIFICATION		
Outer ring on push button not illuminated.	No Power	Check power is reaching transformer		
	Leads not connected correctly	Ensure all leads are firmly pushed into connectors		
No water flow	No power	Check power is reaching transformer		
	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 sensor 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		



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Maintenance Instructions

Solenoid Valve:

- Turn the water supply off and activate the push button to drain as much water from the installation as possible, and then turn the power off at the GPO.
- Depending on the location of the solenoid valve it may be more convenient to remove the solenoid valve completely from the installation to service it.
- The solenoid may be disassembled and checked for debris and cleaned to avoid potential damage to the diaphragm. Please take note of the location of the components and reassemble in the correct order, as there is a spring in the housing that may inadvertently spring out.
- Service or replace the solenoid and re-install into the line. Push the power plug from the sensor back onto the solenoid.
- It is recommended that the line strainer be serviced and cleaned at this stage to ensure that dirt and grit is not restricting the flow
- Ensure the bypass tap on the valve is in the closed position

Push Button, Face Plate, Control Module and Power Transformer

These items are non-serviceable products. If damaged they must be replaced. If there appears to be any problems with these items, please contact Galvin Engineering.

Note: Before attempting to replace any of these items check that you have access to re-run the connection leads. If you do not have access or you have any doubts please contact Galvin Specialised for advice before commencing replacement.

WARRANTY

The warranty set forth herein is given expressly and is the only warranty given by the Galvin Engineering Pty Ltd. With respect to the product, Galvin Engineering Pty Ltd makes no other warranties, express or implied. Galvin Engineering Pty. Ltd. hereby specifically disclaims all other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

Galvin Engineering Pty Ltd products are covered under our manufacturer's warranty available for download from www.galvinengineering.com.au Galvin Engineering Pty Ltd expressly warrants that the product is free from operational defects in workmanship and materials for the warranty period as shown on the schedule in the manufacturer's warranty. During the warranty period, Galvin Engineering will replace or repair any defective products manufactured by Galvin Engineering without charge, so long as the terms of the Manufacturer's warranty are complied with.

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and Galvin Engineering Pty Ltd shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labour charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, electrical or any other circumstances over which Galvin Engineering has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

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