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WaterMark

AS 1172.2 Lic. WMK26456 SAL Global

Product Installation Guideline

Flowmatic[®] Concealed Sensor Assembly 24AC For Flushing Rim Sink with Stainless Steel Faceplate

PRODUCT CODE:

- TZ-FLOWSRIM

SPECIFICATIONS

- Flowmatic® concealed sensor 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.
- 1.5mm thick, stainless steel faceplate with hand activation sensor. It is designed to be mounted flush into the wall/trough.
- Sensor circuit boards are supplied standard with a lacquer finish to limit the damage that may be caused by moisture.
- The multiple time cycle options is able to be adjusted on site, which allows the facility manager the flexibility of adjusting to suit user requirements.
- Built in capacitors and easy fit electrical filters to help suppress external noise and provide a continuous reliable delivery of water.
- Solenoid is a Watermarked high-flow, low-pressure loss control valve. The body and outer casing is made from nylon and features a stainless steel plunger and nitrile diaphragm.
- Flowmatic® Wall sensor controller is a 24V AC electronic control system to be used in various applications. Controller is pre-programmed and ready to use. The solenoid will open for a specific time once the sensor will detect hands movement. 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		240V – 50Hz 30VA
	Output		24V - 917mA Max 22VA
	Cable length		3m
Solenoid	Input Voltage		24V AC – 50Hz
	Power Consumption		4.5VA
	Cable length		5m
	Connection	Inlet	1" BSP - Female
	Connection	Outlet	2" BSP - Male
	Pressure Range (kPa)	Min	70
		Max	500
	Temperature (°C)	Min	2
		Max	40
Sensor	Туре		Infra-Red
	Activation		Hand movement
Controller	Input Voltage		24V AC
	Program type		Flowmatic
	Connections		Terminal Plug 2 way 3.81mm
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 to installation compliance sheet supplied with the product).
- 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 pre mixed water to the valve and a pressure reduction valve may be required to comply with recommended maximum supply pressure.
- Ensure that access to the sensor, 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 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 take into account a broad range of installation types and surfaces, it is important that surfaces which fixtures are mounted to are flat and free from defect. Additionally, ensure any protruding connecting thread is square to the wall so that the outlet sits flat against the wall when installed, ensuring that there are no gaps between the wall and outlet. This is especially important when installing product ranges that have been designed for correctional and health facilities, 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.
- It is advised that the taps should not be positioned directly in front of reflecting surfaces, such as ceramic tiles, stainless steel basins or mirrors. Any bright lighting reflecting off a highly reflective surface such as a stainless steel basin, or a high visibility reflective vest, may interfere with correct sensor operation (Refer sensor settings for operation and adjustment)

GENERAL INSTALLATION REQUIREMENTS

- Do not cut 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 is 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 when connecting water lines. 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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MOUNTING DETAILS

Face plate cut out position

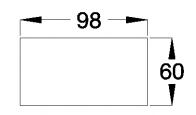
- A position above and to the right of the water outlet is ideal. The best way to select the location is to stand centrally in front of the outlet and extend you right forearm in front of you in a natural arc. Be sure that passing traffic cannot trigger the sensor. Allow at least 400mm clearance.
- Ensure that when selecting a mounting position nothing is within range of the sensor. If the sensor unit is installed into a location where a nearby wall or object is reflecting the Infrared light back, the unit is effectively blinded and will not operate. It is similar to having a torch shone into your eyes.

Note: Outlets are not supplied and must be ordered separately.



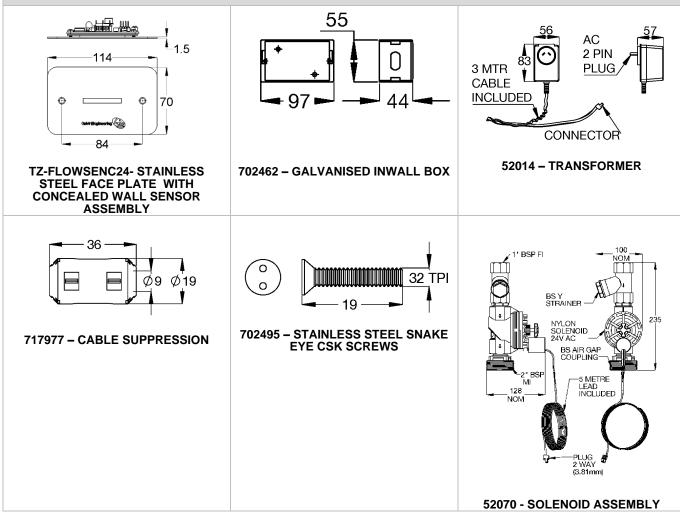
Cut out details for Galvanised box

 The unit is supplied with a Galvanised Inwall electrical box and stainless steel face plate. Assembly should be mounted flush to the wall over a 98mm x 60mm cut-out. Ensure wall depth is between 45mm minimum - 70mm maximum from finished wall surface to the back of box.

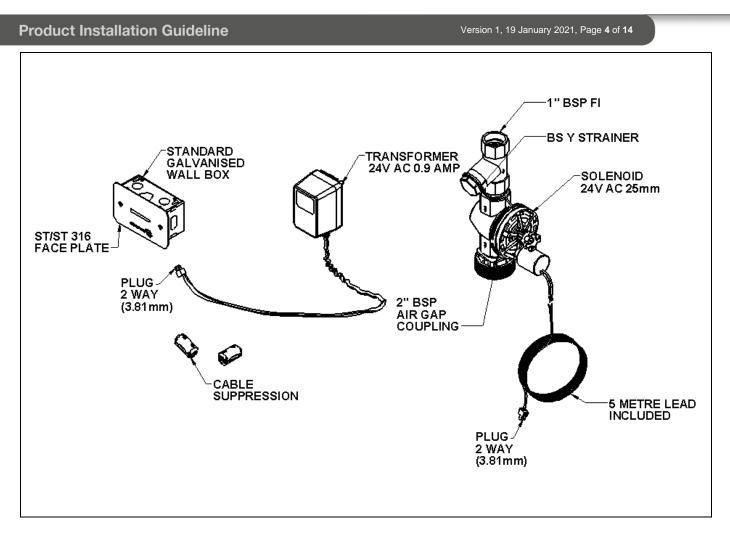


Do not install sensor under the spout.

COMPONENT DIMENSIONS









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450mm MIN

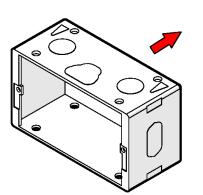
INSTALLATION

Avoid common installation errors :

- Non-compliance to Australian Standards.
- Water pressure not tested before installation
- Lines not flushed before installation.
- No access for service.

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Valve not commissioned properly.



1. Mount galvanised electrical box

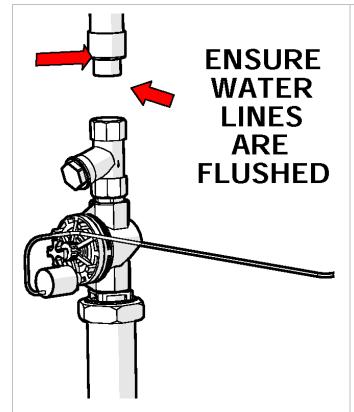
- Mount supplied galvanised box into the wall 1 or 2mm below the finished wall surface.
- The galvanised box can be fixed to a masonry wall or wall frame using screws suitable for the fixing method. (Fasteners to be supplied by installer).
- If more lead is required extension leads are available. In this case please contact Galvin Specialised

2. Connect solenoid

- The solenoid valve is connected into the outlet rim sink at a minimum height of 450mm above the top rim of the flushing rim sink.
- Fit solenoid in horizontal position into flushing shink pipe.
- 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.
- Make sure solenoid valve is orientated such that the electrical wiring is not twisted and connectors are easily accessible.
- Ensure no thread tape, copper swarf, sand or other debris enters and fouls the solenoid valve.

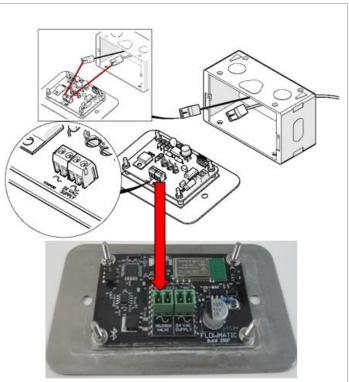


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3. Connect water

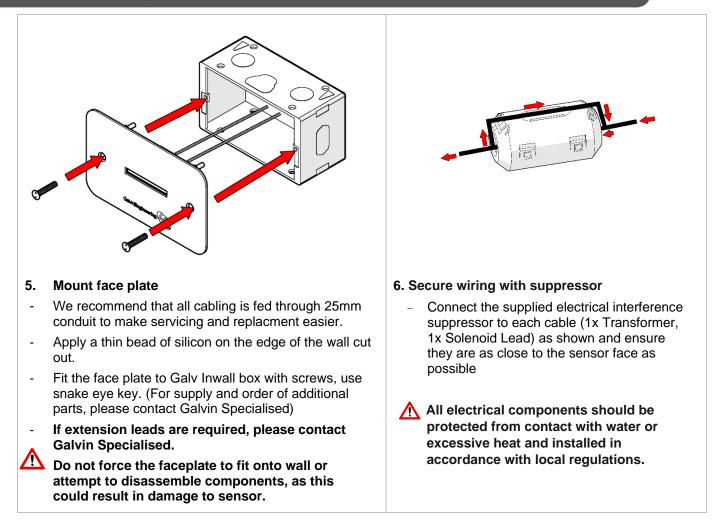
- Connect the water supply to the strainers and turn on water supply. Check for leaks.
- Adaptors/Reducer supplied by the installer must be in accordance with AS/NZS 3500.
- Ensure no thread tape, copper swarf, sand or other debris enters and fouls the solenoid valve.
- Do not apply heat near this product. Heat generated by soldering could damage plastic, nylon, or electrical parts and seals and will void the warranty.



- 4. Connect to sensor plug
- We recommended that all cabling is fed through 25mm conduit to make servicing and replacment easier.
- Connect the solenoid plug and transformer plug to the rear of the Sensor, observing the correct plug connection.
- If more lead is required extension leads are available. In this case please contact Galvin Specialised.
- ▲ 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.

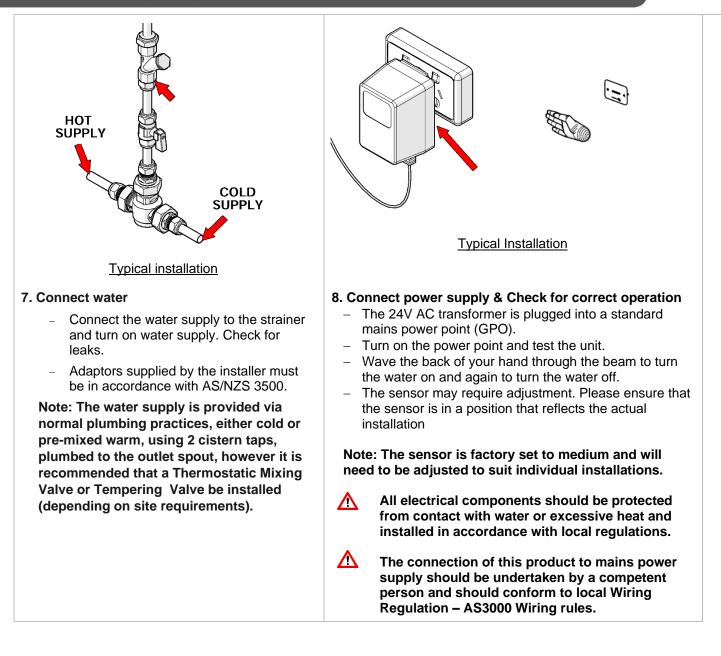


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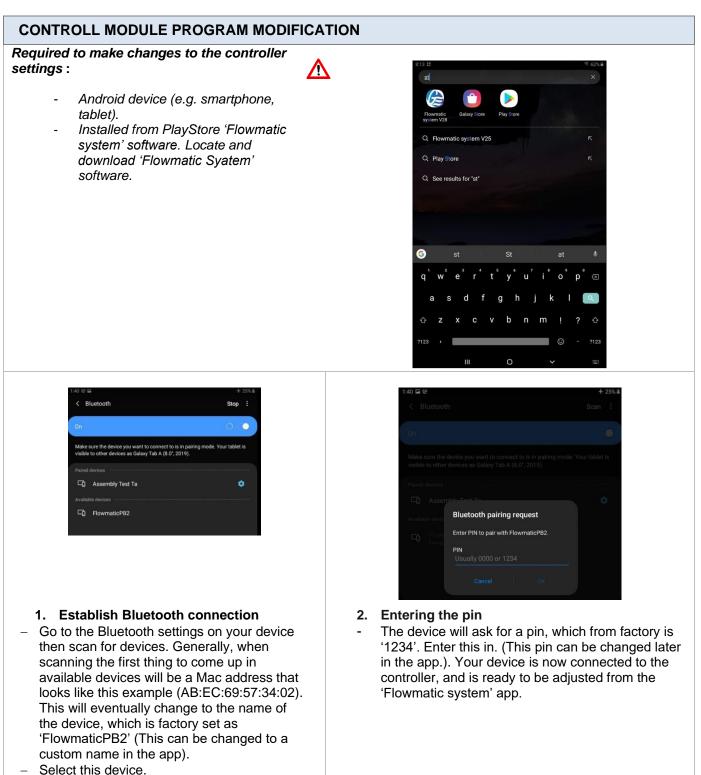


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	8:31 🖬 🕸 📰 👘 60% 着 Elawmatic sustem 1/28				
1.35 년 Flowmatic system V28	Flowmatic system V28 Connected to Flowmatic PB2 SW 5050004886				
Not connected to a Bluetooth device.	Drop-down menus				
PIN Rename Identify Disconnect Next	Get settings Get log Presets				
AB.EC:69:57:34:02 Assembly					
	PB2 Ch1 Pan -				
	10				
	Run time (s) ^{1.0}				
	Lockout (s) 8				
	Hygiene flush Setting sliders Wone at same time after last use Hygiene flush settings				
	Actuations: 0 Flow hrs 0.01 Ave run s				
	Send status Save preset Upload Usage history data				
	WRep1 Bottom function buttons				
	/als,C1,P1000J8,x1,D0,H0,h20,a0,T20,A0,M0,t0				
3. Changing controllers settings	4. Setting screen overview.				
- Open the Flowmatic system' app. The device	 Upper function buttons. By pressing the 'Get 				
will appear on the screen. with Mac Address	settings' button the currently stored parameters in the				
first and then controller name e.g.	controller's internal memory will be downloaded to the				
'AB:EC:69:57:34:02 Flowmatic'.	app. The 'Get log' button will pop up the log data				
 Select the Flowmatic, this will then update 	screen. The 'Presets' button will list all saved presets.				
the controllers time clock, and then open the	 Drop-Down menus. First menu from left is to select 				
	the type of controller the app is connected to. The				
setting screen by pressing 'Next'.	second menu is to select which 'channel' is going to				
	have parameters changed (only for PB2). The third				
	menu is to declare what is the controlled feature				
	designed for (only for PB2).				
	- 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.				



Product

Wave

PB2

Flushe

Urinal

Pan

5. Type of controller (left drop-down menu)

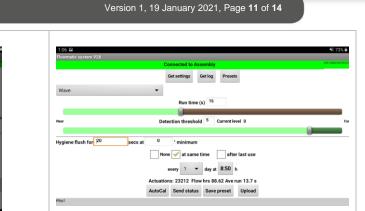
the, 'Urinal', 'Pan' 'PB2' or 'Flusher'.

For the TZ-FLOWTAPC24 controller the 'Wave' or

application. Please do not change the selection to

'Proximity' selection may be used depending on the

Proximity



- 6. 'Wave', 'Proximity' setting screens contains the same setting parameters.
- Run time (s) slider to set the required flow time.
- 'Detection threshold' slider to set sensing range. By setting smaller value the detection distance is farther. Bigger value is making the detection distance shorter.

7. Choosing the suitable mode

- 'Wave' mode:
 - If a hand is detected, the water will start and keep flowing until the time set in the 'Run time' section will pass or another 'wave' will appear in front of the sensor.
- 'Proximity' mode:
 - If a hand is detected, the water turns on for as long as the hand is there, up to a certain timeout value set in the 'Run time' section.

Flowmatic system V28 Connected to Assembly	8:31 ⊑ 1 \$\$ \$\$ 60% Flowmatic system V28		
Get settings Get log Presets	Connected to Flowmatic PB2 Silv 160990040		
Wave	PIN Rename Identify Disconnect Next		
Run time (s) ¹⁵			
Feer Detection threshold 5 Current level 0 Fee	AB:EC:69:57:34:02 Assembly		
ygiene flush for ²⁰ secs at ⁰ * minimum	44:44:1B:0F:16:93 Flowmatic PB2		
None at same time after last use every 1 - day at 8:50 h Actuations: 23212 Flow hrs 88.62 Ave run 13.7 s AutoCal Send status Save preset Upload			
wep/ Ws.015V5.01.H31600.h20.µ23212.T319043.A0.M1,t0			
 Settings 'Hygiene flush'. Set the required time for Hygiene flush and press 'Upload'. 	 9. Connection menu. By pressing the back arrow, the connection screen will pop up. The buttons allow to rename the controller, set new PIN, disconnect, or go to setting screen 'Next'. 		



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TROUBLE SHOOTING				
PROBLEM	CAUSE	RECTIFICATION		
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		
	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

Transformer:

A The Transformer is a non serviceable product. If damaged the transformer must be replaced.

- Turn power off at GPO and unplug the transformer.
- The transformer comes standard with 3 metres of cable. The cable is connected to the rear of the sensor.
- Determine if cable access is difficult or if the cable is fed through a conduit. If the cable is in a conduit then
 a lead or leads may be required to be tied to the existing cable before it is removed so the new cable can
 be pulled back through.
- Remove the transformer and cable.
- With the new Transformer in place feed the cable back to the sensor and plug in the appropriate plug connector.
- Plug the transformer into the GPO point.

Turn on the power to the unit and test. Wave the back of your hand through the beam to turn the water on and again to turn the water off.

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.



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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.

