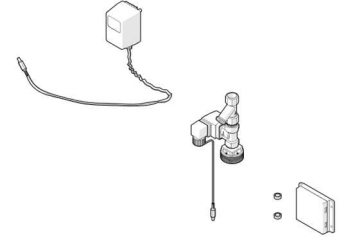


# Flowmatic® Automatic Flusher Ceiling/Wall Mounted for Urinal 15 24v AC

PRODUCT CODE:

- TZ-FLOWFLUS



## SPECIFICATIONS

- The Flowmatic® automatic flusher is the latest in proven technology that ensures your installation is of high quality, simple to install with no call backs.
- The multiple time cycle option is able to be adjusted on site which provides the facility manager the flexibility of adjusting to suit user requirements.
- Flushed unit comes with stainless steel water hammer resistant 24V AC solenoids

## TECHNICAL DATA

<b>Power Supply</b>	Type	Transformer		
	Input	240V AC - 50Hz 30VA		
	Output	24V AC - 917mA Max 22VA		
	Cable length	3m		
<b>Solenoid</b>	Input Voltage	24V AC – 50Hz - 60Hz		
	Power Consumption	8W		
	Cable length	5m		
	Connection	Inlet	½” BSP - Male	
		Outlet	½” BSP - Female	
	Pressure Range (kPa)	Min	100	
		Max	1000	
	Temperature (°C)	Min	5	
Max		90		
<b>Sensor</b>	Type	Flowmatic Urinal Flusher Concealed sensor		
	Activation	Motion sensor		
<b>Controller</b>	Input Voltage	24V AC		
	Program type	PCB CONTROL		
	Connections	AC Input & AC Output		
Finish (user)		N/A		
Flow Rate (Litres per Flush per Install)		1.3		

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

## 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).
- 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.
- 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.
- 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 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 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.

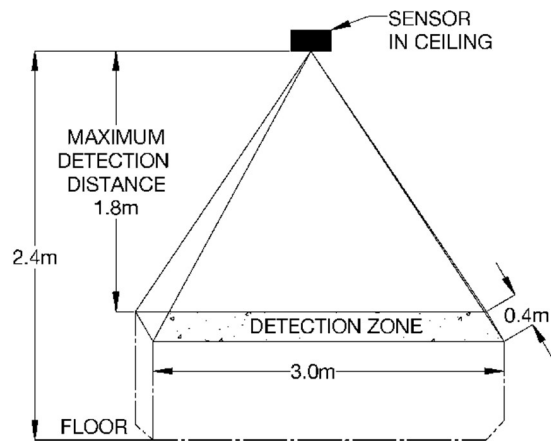
## MOUNTING DETAILS

### Sensor location

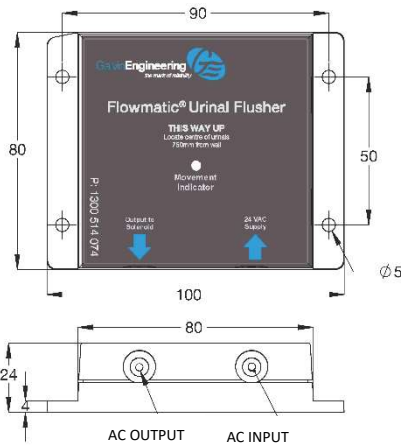
- Select a location for the sensor; ideally it should be centred above the urinal no more than 750mm from the urinal wall. The sensor is designed to penetrate all types of materials excluding any metal surfaces. The sensor may also be installed in a duct in front of the urinal. Again, it must not be obstructed by any metal components.

### Sensor Detection Zone

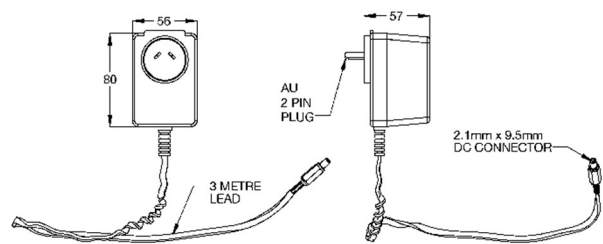
- The Detection Zone for the Flowmatic flush, is approximately 3 metres long and approximately 400mm wide.
- Please refer to the manufacturer for sensor detection for single stall applications.



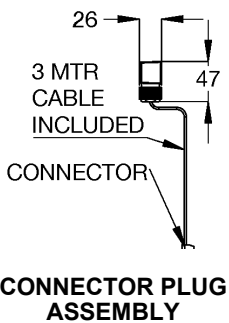
## COMPONENT DIMENSIONS



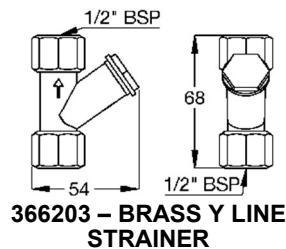
**TZ-FLOWSENF24 – ELECTRONIC CONCEALED SENSOR ASSEMBLY**



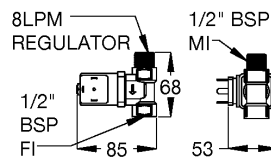
**52021 – TRANSFORMER**



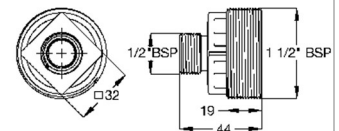
**CONNECTOR PLUG ASSEMBLY**



**366203 – BRASS Y LINE STRAINER**

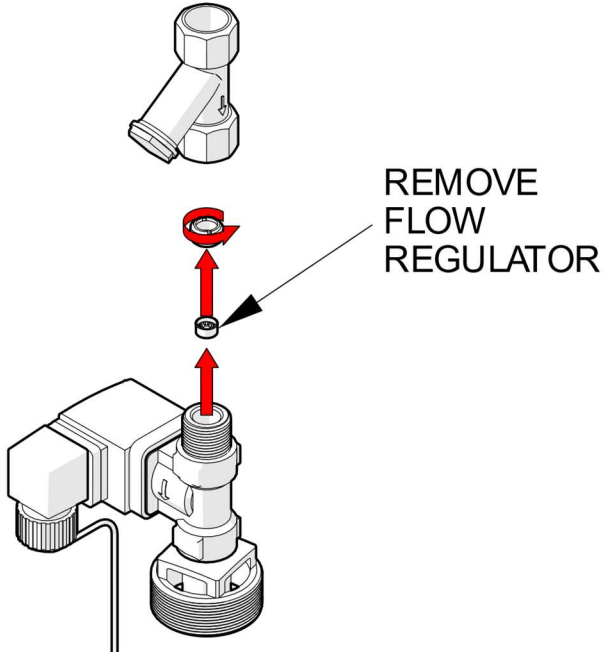


**STAINLESS STEEL SOLENOID VALVE**

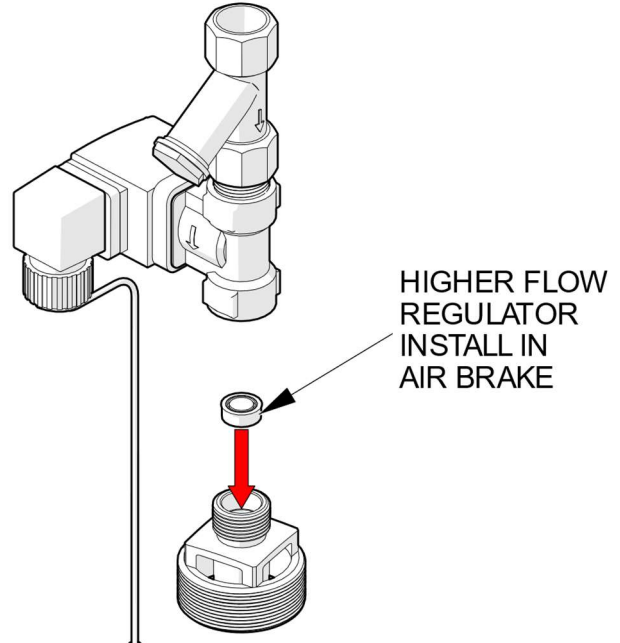


**BRASS 1/2" BSP x 1 1/2" BSP AIR GAP COUPLING**

**CHANGING FLOW RATE**



1. The solenoid assembly comes with pre-installed 8LPM standard flow regulator and a 20LPM (Green) & 26.5LPM (Red) flow regulator separately packaged. To change the flow rate, remove the standard 8LPM flow regulator from Y Line strainer.



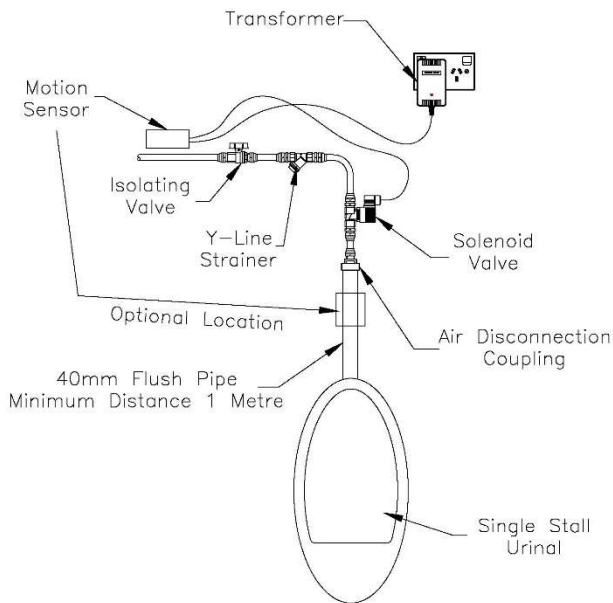
2. To install higher flow regulator remove air break, ensure the flow direction is correct and then press fit into the air break until flow regulator stops.

## INSTALLATION

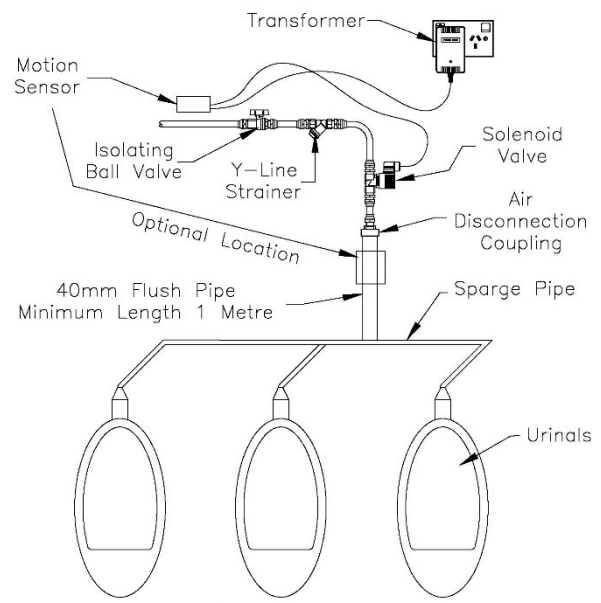
### Avoid common installation errors :

- Incorrect supply pipe size installed.
- Non-compliance to Australian Standards.
- Water pressure not tested before installation
- Lines not flushed before installation.
- No access for service.
- Valve not commissioned properly.

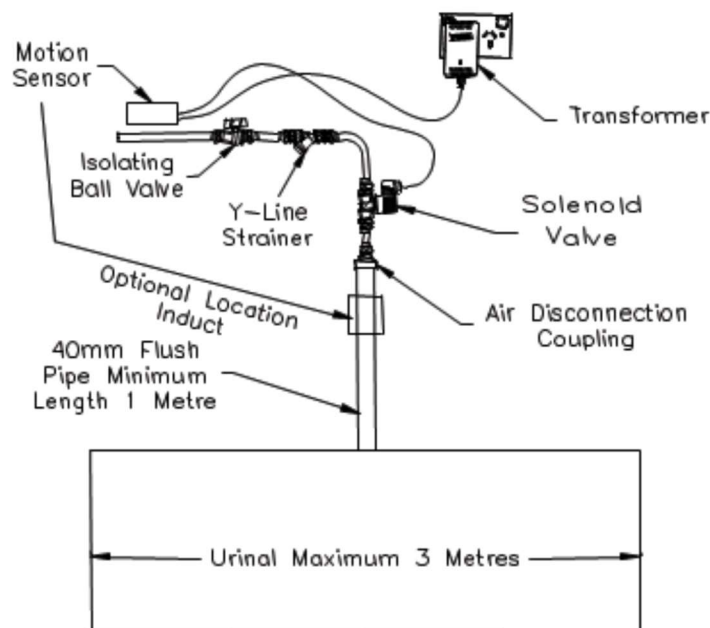
### Typical Installations:



Single Stall Urinal Installation



Multiple Single Stall Urinal Installation



TROUBLE SHOOTING		
PROBLEM	CAUSE	RECTIFICATION
Sensor Not Responding	Damaged or scratched lens	Replace Sensor Unit
	Sensor lead damaged	Replace sensor lead
	No Power	Check power is reaching transformer
	Transformer faulty	Replace transformer
False Activation	Electrical interference	Ensure electrical suppressors are installed correctly
	Reflection from a light source	Re-align sensor or shield light source
No water flow	Transformer faulty	Replace transformer
	Electrical interference	Ensure electrical suppressors are installed correctly
	No power	Check power is reaching transformer
	Power supply leads joined incorrectly	Replace electronic components
	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
	Pressure exceeding 1000kPa	Reduce pressure to solenoid to 850 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

## MAINTENANCE INSTRUCTIONS

### **Solenoid Valve:** (Supplied with own instructions booklet)

- 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 isn't restricting the flow.
- Ensure the bypass tap on the valve is in the closed position.
- Turn power on and test tap.

### **Transformer:**

 **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.**

## 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](http://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.