

**MEFE**  
MITCHELL ENGINEERING  
FOOD EQUIPMENT PTY LTD

# Instruction Manual



## Auto Valve Flow on Activation

On/Off Infrared Sensor

CAT 67101

Revision 3

### Pre-Install Instructions

- Before installing the valve, all pipes should be flushed with clean water to remove any impurities or silt in the pipeline.
- Avoid any reflections in front of the sensor (allow 100cm) such as mirrors, marble, stainless steel.
- Do not install in direct sunlight.

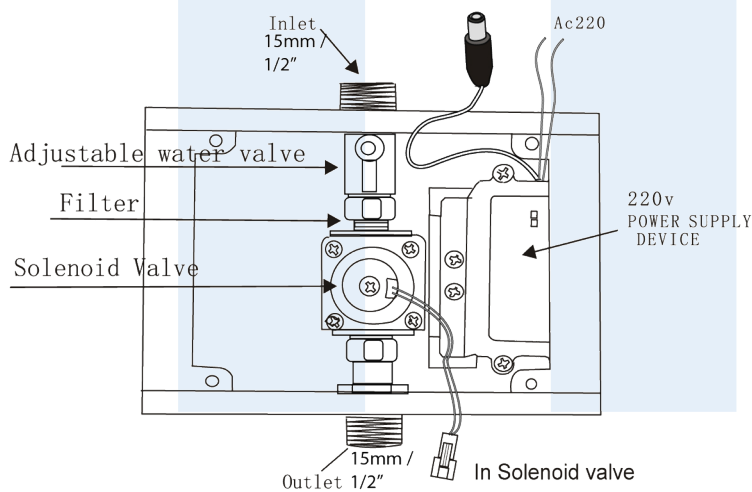
### Recommended Tools and Materials

Open end/adjustable wrench	Level	Special wrenches
Tape measure	Pliers	Wire cutter
Basin wrench	Socket wrench with sockets	Insulation tape
Pipe wrench	Phillips driver	
Square	Seal tape	

### Specifications

<b>Power Supply</b>	AC 220v 50-60Hz supply or DC 4 x AA Alkaline Batteries (Dual power supply automatically switched)
<b>Sensor Distance</b>	10 – 70cm self adjusting
<b>Dimensions</b>	15 x 6.5 x 11cm
<b>Flushing Style</b>	Automatic on and off with sensor, no timer or delay
<b>Inlet Water</b>	Standard 1/2"
<b>Outlet</b>	Standard 1/2"
<b>Water Pressure</b>	0.05Mpa—0.8Mpa
<b>Recommended Pressure</b>	0.18Mpa—0.55Mpa
<b>Installation</b>	Concealed into wall

### Unit Breakdown



## Installation

1. Determine install location as per installation diagram below. The groove depth is not less than 90mm. Install supply pipes, ensuring you flush the pipes free of any silt, impurities, etc.

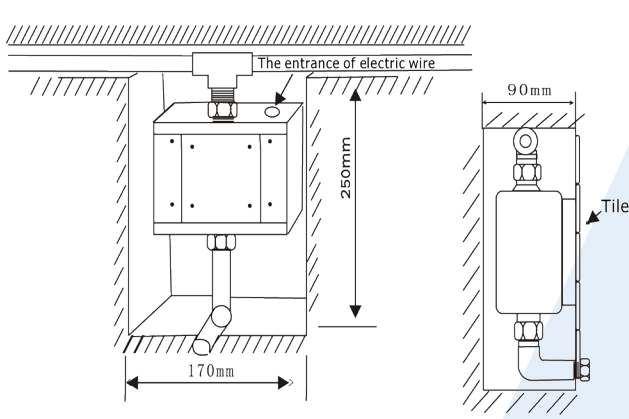


Figure 1

**Note:** Avoid reflective objects directly opposite the sensor (such as mirrors, bright stainless steel plates and other mirrored objects, etc. and keep away from strong ultraviolet or electromagnetic fields.

2. Connect the connecting pipe to the pipeline, then connect with the mortar inlet end and connecting pipe ensuring your use a rubber seal on the inlet connection. Connect the "L" pipe water outlet according to your installation.
3. Remove the mortar mold sleeve and check for leaks. Insert the AC 240V power cord into the hole of the embedded box if using AC power. Tie the 2 red wires of the power adapter box with the 2 AC 240V power wires respectively, and wrap them with electrical tape. If using batteries, install 4 x AA alkaline batteries into the battery box (Figure 2).

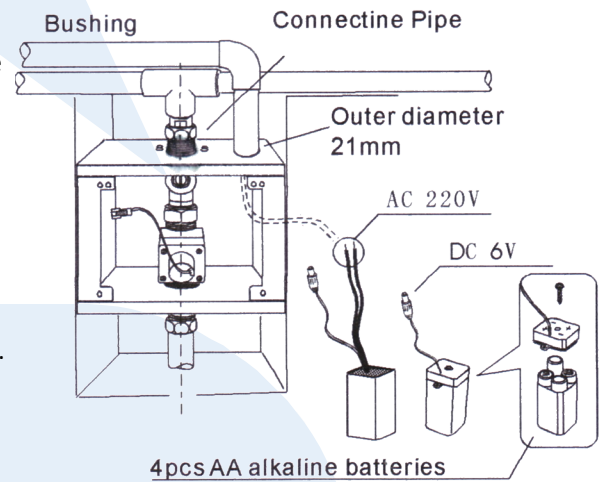
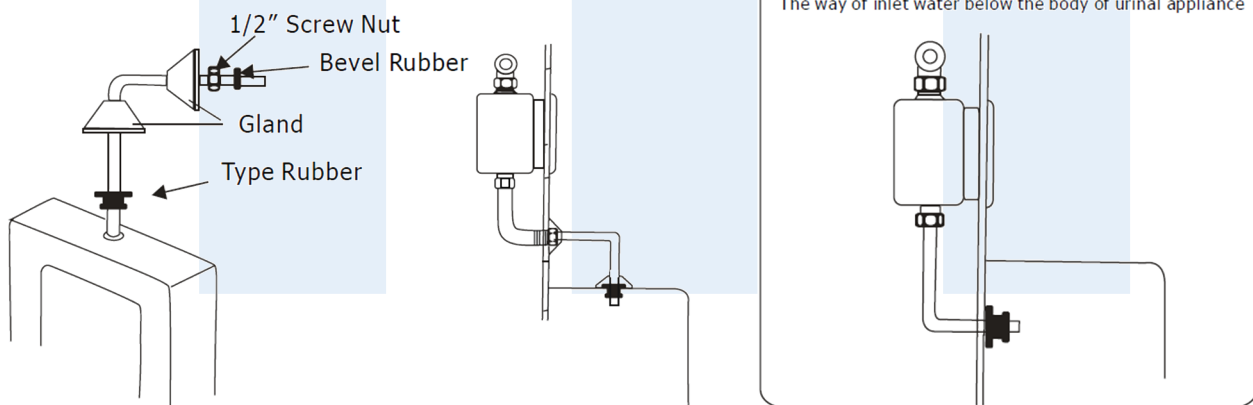


Figure 2

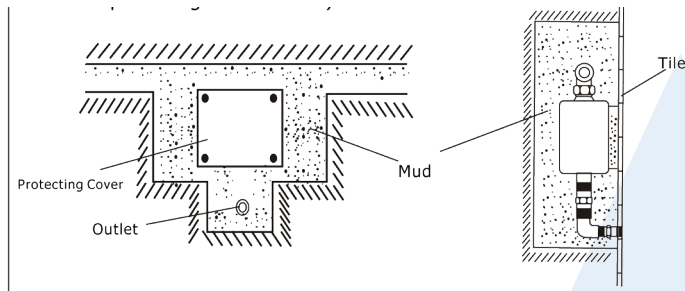
**Note:** Ensure you do not mistake the polarity of the batteries or mix old and new batteries together.

Tighten the screws of the battery box to avoid moisture in the battery box.

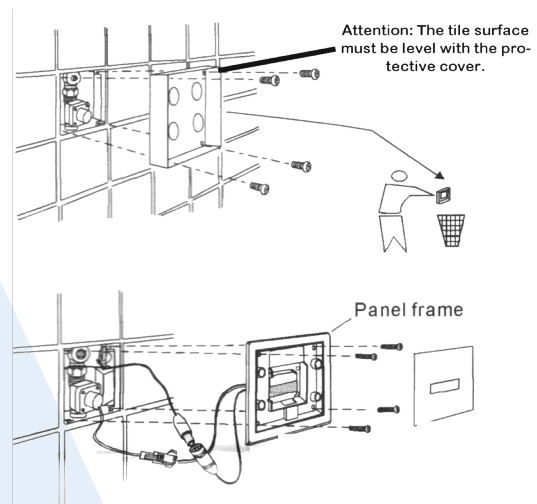
4. If using the elbow pipe and fittings, install on to the urinal and into the wall pipe as per Figure 3.



2. Connect to the water mains and pressurize the pipeline to 0.7Mpa and check for leaks at connection points. Reinstall the mortar mold and grout any gaps between the control box and the wall and fix tiles down. Once the grout is dry, remove and dispose of the protective cover (Figures 3 and 3a).



**Figure 3**



**Figure 3a**

3. Connect the solenoid valve wire behind the panel and the connector of the control box assembly, and fix the panel frame with the equipped 4 long screws, and then cover the panel (Figure 3a).

### Sensing

The sensor angle is set at within 70cm on an approx. 20° downward incline. The unit will activate once the user steps in front of sensor. Unit will shut off once user leaves sensing range.

If the power voltage is less than 4.4V, the unit will automatically shut down and the indicator will flash 3 times every 6 seconds to prompt battery replacement.

### Adjust Water Flow

Remove the face plate using the included suction cup, then access behind the panel by unscrewing the four screws.

Insert a flat screw driver as shown into the water regulation valve cover, turning clockwise to slow water flow (close) or counter clockwise to increase water flow (open).

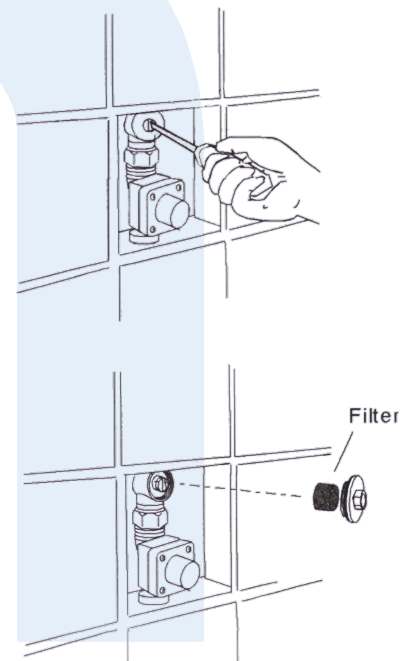
### Maintenance

If the flushing volume reduces after installation or the valve has been used for a long time, and the cause is not related to water pressure, and you have checked and adjusted water flow, the filter may need cleaning.

Remove the face plate using the included suction cup, then access behind the panel by unscrewing the four screws.

Turn off the water supply or fully close the valve. Then use an adjustable wrench to remove the filter and check for any silt and impurities. Gently remove the filter mesh and rinse, check the seal is in place and tight. Please be cautious foreign materials do not enter the valve body.

When not in use for a long time, the sensor will drive the solenoid valve to flush once every 24 hours to prevent the deodorizer and drain pipe from drying up.



## Cleaning

Keep the sensing window clean by wiping it regularly with a soft cloth. Only ever use soapy water.

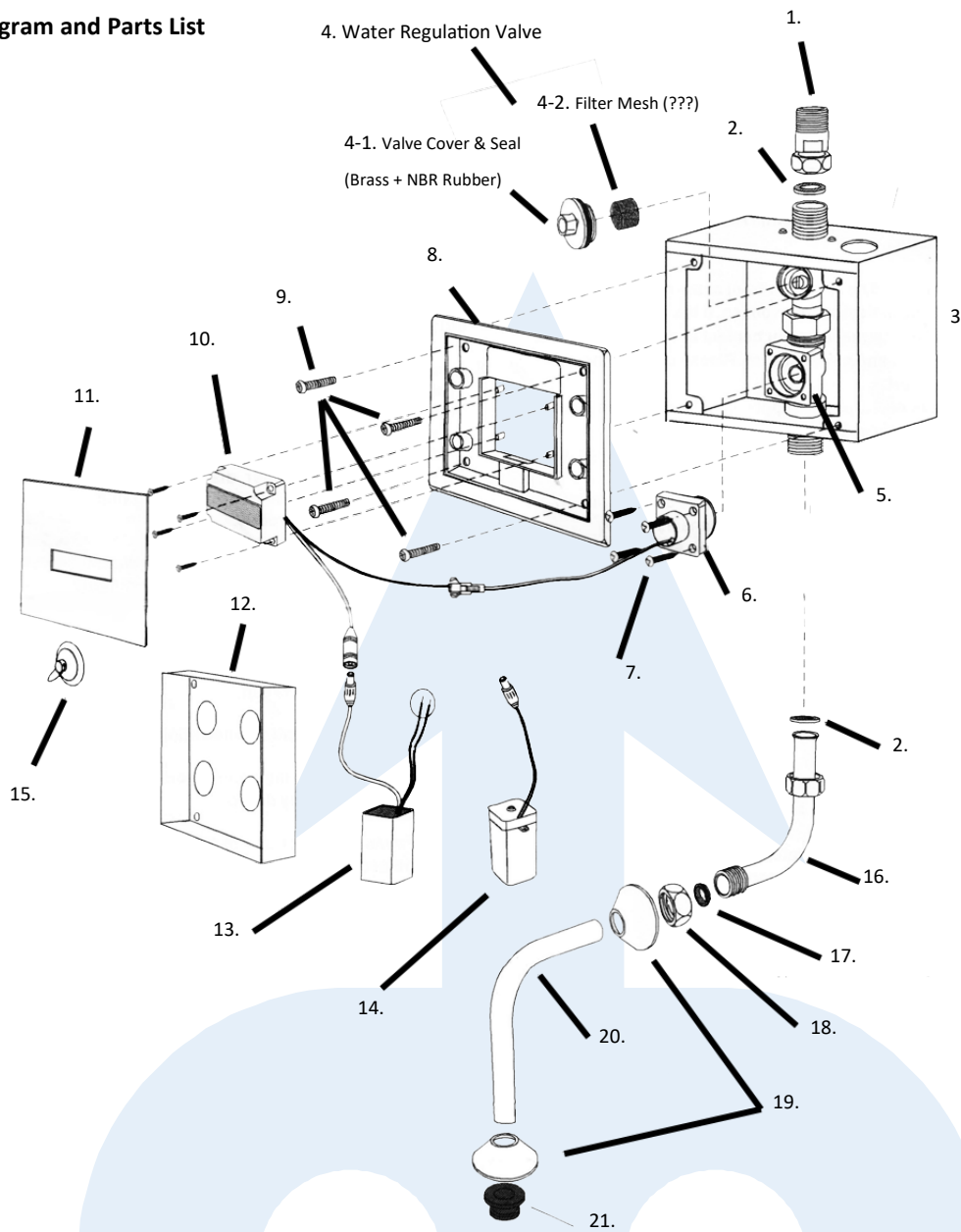
**Do not** use dust removing powder, abrasive powder, bleach, oil, acid or alkaline based products.

**Do not** spray air refresher, disinfectant or other deodorising or cleaning solvent directly onto sensor window.

## Troubleshooting

Problem	Cause	Solution
<b>No water flow</b>	Power supply insufficient Sensor compromised or poorly connected Solenoid valve poorly connected	The indicator light will flash 3 times every 6 seconds if power is insufficient, sensor is blocked or poorly connected, and solenoid is poorly connected.  Check power or replace batteries.  After confirming power, ensure the sensor window is clear of obstacles and check for strong reflections. Unplug and plug in again. You may need to replace the sensor.  Check the solenoid valve connections. You may need to replace the solenoid valve.
<b>Can't stop water flow</b>	Solenoid or piston are blocked Water pressure is too low	Close the water volume control valve, open the piston valve cover, take out the piston for cleaning, and observe whether there are impurities inside the valve body.  If there is still a small amount of water when the valve is closed the water pressure is too low or solenoid valve assembly is blocked or faulty. Replace solenoid.
<b>Low water flow</b>	Water pressure is too low Water regulation valve is not opened enough	Increase water pressure.  Open the water regulation valve to its full open position.

## Exploded Diagram and Parts List



No.	Part	Description	Material	No.	Part	Description	Material
1.		Connecting Pipe	Brass	12.	67206-13	Mortar Mould Set	ABS Plastic
2.		Washers	NBR Rubber	13.	67206-11	240V AC Power Adaptor	Electronic Hardware/ABS Plastic/Epoxy Sealants
3.		Embedded Box	SUS 304 Stainless	14.	679-121	6V DC Battery Box	ABS Plastic
4.		Water Regulation Valve	Brass + NBR Rubber	15.		Suction cup	PVC Plastic
5.	CAT 67101SOL	Solenoid Valve Body	POM Plastic + magnet (iron/nickel?)	16.		Elbow	Brass
6.	CAT 67101SOL	Solenoid Valve	SUS 304 Stainless + POM Plastic + Rubber	17.		Hypotenuse Ring	NBR Rubber
7.		Screws	304 S/Steel	18.		1/2" Nut	Brass
8.		Frame	ABS Plastic	19.		Decorative Cap	Brass
9.		Screws	304 S/Steel	20.		7" Bend Tube	Brass
10.		Sensor	Electronic Hardware/ABS Plastic	21.		Plug	NBR Rubber
11.		Panel	SUS 304 Stainless				