Cistern Flushing Valve "Water Watch"

Model CFVWW – PIR Control for Urinal Flushing Cisterns - Datasheet

Description

The new Water Regulations require a device to regulate the filling of an automatic flushing cistern. This saves water with potentially large financial savings. Control is best achieved with an infrared sensor, which senses a person entering the area and initiates a time delay. At the end of the delay, the cistern starts filling.

The Water Watch CFVWW consists of a latching solenoid valve and a sensor/control module. It is preferable to have one unit per cistern, although the cistern can flush several bowls. An AFL servicing valve fitted with a strainer cartridge is recommended – see AFL data sheet.

The latching solenoid (pulse on, pulse off) minimises the energy requirement enabling the large battery (supplied) to last about 5 years – the LED light provides a visual warning of a failing battery. Alternatively the unit can be mains powered, settings are retained during power failure.

Installing and calibrating the unit is simple, requiring the set-up switch to be operated for the filling period. There are no other controls or nozzles to fit. The cistern will flush 30 minutes (factory setting) after the first movement is detected. Flushing can be set to 1, 2, 3 or 4 times per hour.

A "hygiene flush" occurs once every 24 hours (factory setting) even when no movement is detected. This reduces odour and replenishes water in the waste trap.

Connection Pipes

Copper – 15 mm compression fittings
Plastic – Remove compression nut for ½" male BSP thread.

Specification

Sensor	5 m range (PIR – Passive Infra Red) Multi-zone movement detector lens with flashing red LED movement indicator.
Power Solenoid	9 V latching
Water Pressure	0.1 - 10.0 bar
Programmable flush rates –	
Maximum rates	4, 3, 2 or 1 flushes / hour
Hygiene Cycle	12 or 24 hours selectable
Timer	Quartz crystal clock
Battery	Battery – 4.5 V, 5.4 Ahr, Duracell 3LR12
Battery indicator	Flashing red LED. Battery life 4 - 7 Years
Supply	Mains (optional) – 230 V, 50 Hz, 1.8 Watts, 1 A fused spur
Approval	WRAS approved
Water Audit	300 Bits/s serial data Interface (option)

Materials

Sensor Body 1.5 mm steel, zinc plated & white enamel.

Water Regulations

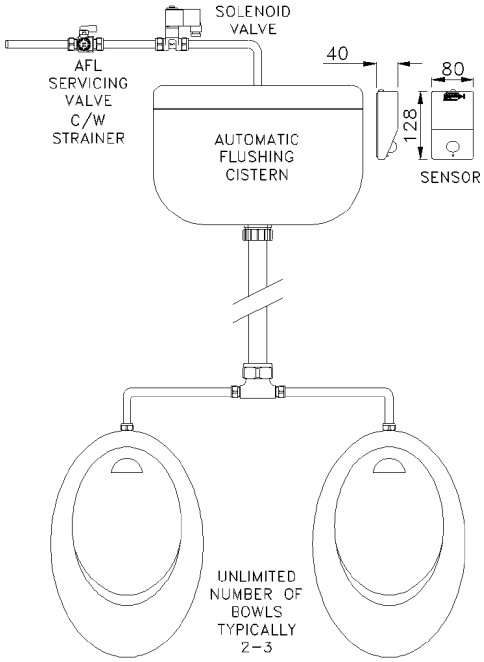
DETR Guidance G25.1 states the inlet to the flushing cistern is to be controlled by a device so that the unit is only flushed after it is used. This may be in the form of an electronic sensor.

G25.12 – An automatically operated flushing cistern serving urinals should be filled with water at a rate not exceeding –

a. *10 litres per hour per urinal bowl for a cistern serving a single urinal; or*
b. *7.5 litres per hour per urinal bowl or position or, as the case may be, for each 700 mm width of urinal slab for a cistern serving two or more urinals.*

Sensor

Hemispherical angled Passive Infra Red sensor enables the unit to be either wall or ceiling mounted. Large internal alkaline battery powers sensor and latching solenoid and generally lasts 4 – 7 years. LED indicates movement detection and low battery condition



Codes and Descriptions

Size	Code	Description
15 mm	CFVWWB	Cistern Flush Control Valve Battery
15 mm	CFVWWM	Cistern Flush Control Valve Mains
	CFVAUD	Auditor – Interrogation Tool
15 mm	AFL15CL	AFL Valve Comp Nickel c/w Lever
All	AFLPKS260	Flow Limit/260µm Strain Cart 0.07 Lt/s

Options

Auditor model provides real data including – serial number, total flushes, hygiene flushes, fill time, flush setting, hygiene setting. Also establishes water consumption savings; comparing volume of water used after installation and before installation.

Optional Auditor Module. Plugs into Water Watch to download data – supplied with soft carrying case.

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