

Waterguard

TECHNICAL SPECIFICATION: WATERGUARD SOLO

Mitigate Risks and Minimise Costs

Designed to protect property owners from the effects of escape of water, the Waterguard Solo is an automatic shut off system that is tamper proof, language free and simple to install, with minimal maintenance.



WORKING PRINCIPLES

This system protects properties by monitoring water usage from the incoming water mains using a flow sensor that allows continuous water flow for a limited time before the controller suspects a leak and automatically shuts off the water with a solenoid valve.

The Waterguard Solo has one level of guard (maximum time of continuous flow) which is usually set by the installer, landlord or concierge with the controls often located in riser cupboards or basements.

Optional guard levels; 10, 20, 30 or 40 minutes available. The default setting is a maximum of 30 minutes continuous flow before the system will shut off the water supply.

The Solo includes only WRAS approved plumbing components.

FEATURES AND BENEFITS

- An integrated back-up battery will continue to power the controller for many weeks in the event of a mains power loss.
- Before completely losing power the Solo will close the valve and continue to protect the property.
- Equipped with a manual override to reinstate the water supply away from the controls.
- Simple, language free controls. The water can be both shut off and reinstated using the simple push button controls.
- Automatic maintenance; during the night the Solo will close and then open the valve once to ensure that the valve will operate reliably.
- The Solo benefits from the flexibility of either 12V or 240V.

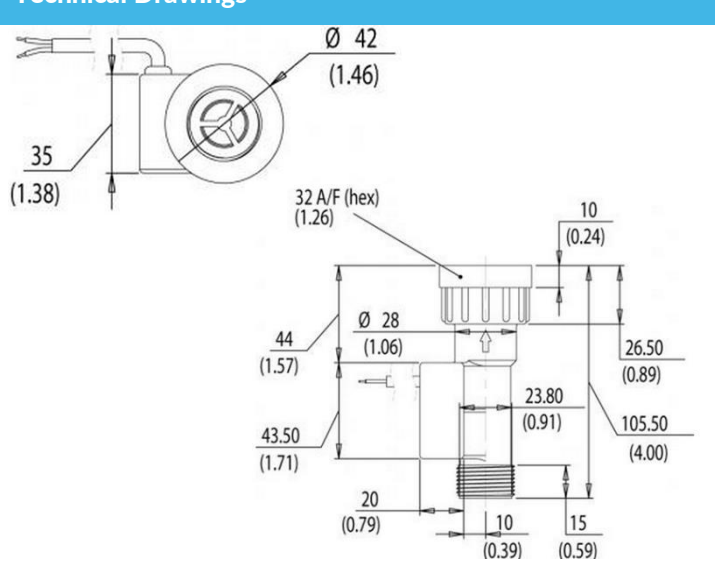
TECHNICAL DATA

Waterguard Solo – WTL Ref No. 5221

Size	85 x 85 x 42mm	Backup Battery	Yes: 3V Lithium
Power	12V or 240V	Alarm Output	Switching voltage: 48V max 0.1V min
Cable Requirements	12V: Power adapter supplied 240V: Speaker cable, twin or three core flex all suitable. Not supplied.	Valve Common Flow	Solenoid Valve: V & C Flow Sensor: F & C See below for technical data.

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Flow Sensor – WRAS Cert No. 1510025

Material		Mechanical Specifications	
Housing Material	Noryl	Shock	50g for 11mS duration
Shuttle Material	Noryl	Vibration	35g up to 500Hz
Contact Material	Ruthenium	Maximum Pressure	10 bar @ 20
Operating Temperature	-30 to 85 degrees C	IP	IP65
Medium	Water	Horizontal flow rate l/min	2.24
Housing Colour ¾"	Blue	Vertical (flow up) flow rate l/min	2.50
Housing Colour 1 ¼"	Black	Vertical (flow down) flow rate l/min	1.79
Switching		Technical Drawings	
Switch Action (Reed Switch)	SPST		
Max Switch Voltage VDC	200		
Max Switch Voltage VAC	250		
Max Switching Current Amps	1		
Max Switching Load Watt	40		
Reed Switch Reliability	UL File E153493		
Operate Mode	N/O, close with flow		
Contact Form	A		
Cable & Mounting			
Cable Length	1 x 1.0M double insulated		
Connection Type	Stripped cables		
Cable Type	0.5MM2 BS6500 PVC		
Cable Colour	Grey outer blue/brown inner		
Fitting	¾" or 1 ¼" BSP with male and female threads		
Fitment	In line		
Mounting	Vertical, flow downwards		

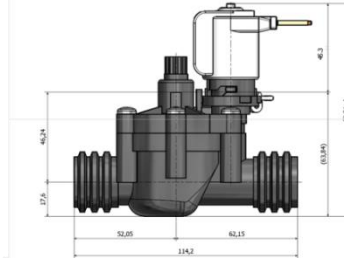
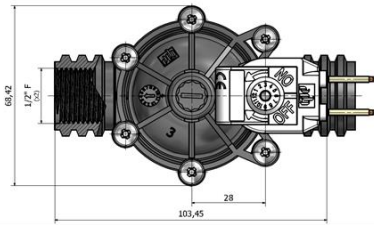
Solenoid Valve – WRAS Cert No. 1901033

Classification		Hydraulic Connections	
Type	Single	Inlet	BSP Female Thread
Geometry	180 C	Outlet	BSP Female Thread
Working Specifications		Physical Specifications	
Working Pressure	0.5 / 10 bar	Valve Body	Polyamide 30% fibre glass
Room Temperature	0 / 60 C	Diaphragm and Gaskets	NBR (buna)
Fluid Temperature	60 C	Core	Stainless Steel
Duty Cycle	ED 100%	Spring	Stainless Steel
Flow Direction	Unidirectional	Assembly	With screws for inspection
Nominal Diameter	DN ½" – 1 ¼"	Coil	Watertight – C.E.I IP 55
Control	NC, NO, Latching	Cable Length	Aprox 600mm
Installation			
In all positions, manual override by solenoid coils rotation			
Electrical Connections			
Electric Connect 1	Male Faston 6.3 x 0.8 mm – IP X0		
Electric Connect 2	Unipolar Cables max 300 mm – IP 55		
Electric Connect 3	Bipolar Cables max 5000 mm – IP 55		

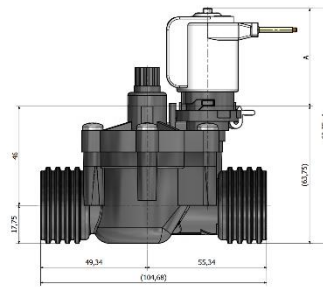
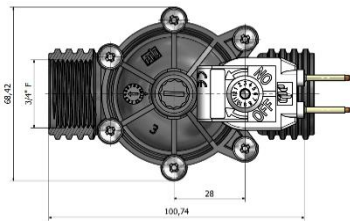
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Dimensions

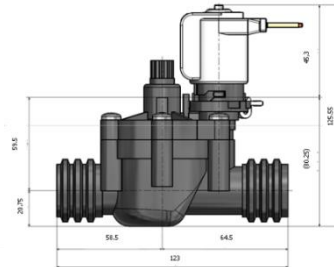
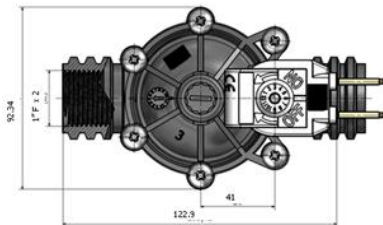
1/2"



3/4"



1"



Waterguard

Waterguard Services Limited

22 Oakwell Business Centre
Barnsley
South Yorkshire
S71 1HX
T: 01226 244200
E: enquiries@waterguard.co.uk

Any application, water leak detection and prevention.
To find your solution visit www.waterguard.co.uk.

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