420 x 198mm

Folded in half horizontally.

71mm | 70mm | 69.75mm | 69.75mm | 69.75mm | 69.75mm

Valve installation

waterlock™

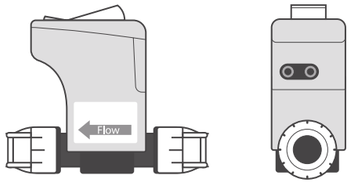
WLOCK-A-USG-001_7

For any additional help and support please visit:
waterlock.support.geotogether.com

geo

welcome

to the installation and operating instructions for the **Waterlock** Valve



Flow direction on side and base of Valve.

Features and requirements

	15/RPL	22/RPL
Push fit	✖	✖
WRAS approved	✖	✖
15x15 Copper/Plastic	✖	
22x22 Copper/Plastic		✖
Stop valve	✖	✖
Remote switch	✖	✖
Valve switch	✖	✖
Min bar @ all temps	0	0
Max bar @ 23°C	10	10
Max bar @ 60°C	3	3

1 Existing water supplies

- The Waterlock products can all be used as direct replacements for the existing stop valve. It is however often easier to leave the existing valve in situ and fit Waterlock after.

- Header Tank Supply: A 4m head of water is required for operation from a tank fed supply.

2 **IMPORTANT!** The tubing must be routed so that contact with hot pipes and surfaces is avoided, also routing through enclosed spaces must have adequate ventilation in order to avoid excessive temperatures which can result in premature ageing of the tubing.

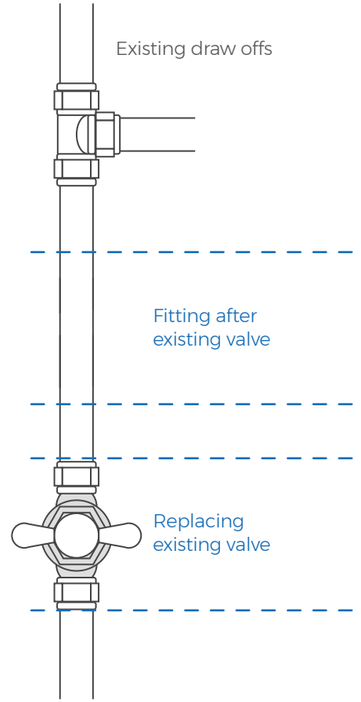
3 When fitted into cupboards etc access to the Valve for operation and possible future maintenance must be provided.

EARTH CONTINUITY *There will be instances where the Earth Continuity of the property is reliant on the incoming mains pipe work. The installation of Waterlock into the pipe work may therefore compromise the Earth Continuity as Waterlock is of all plastic construction. In such circumstances the pipe work should be bonded across the Waterlock Valve. If there is any doubt cross bonding should be carried out as a precautionary measure. The means of cross bonding should be in accordance with the current edition of the IEE (Institute of Electrical Engineers) regulations.*

Fitting the Valve

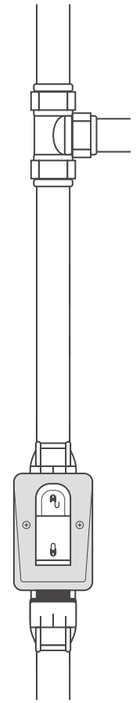
The Waterlock Valve can be fitted as a direct replacement for an existing stop valve or fitted after the existing stop valve.

PUSH FITTING		
Product	**Pipe section to be removed**	**Fitting space**
15mm	34mm	88mm
22mm	53mm	117mm

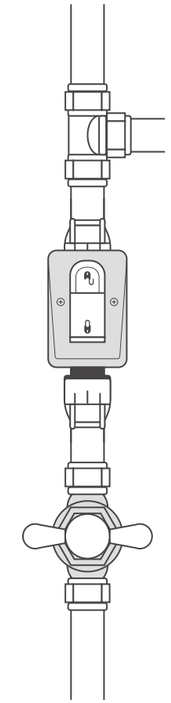


Main supply **IN**. Max pressure 10 Bar. **Turn OFF before fitting.**

Replacing existing valve



Fitting after existing valve



IMPORTANT WARNING! Solder Flux: *Your Waterlock is manufactured from high grade plastics and under no circumstances must your Waterlock come into contact with solder flux. If a solder joint is made upstream of your Waterlock then WATER MUST be flushed through before fitting your Waterlock.*

For both Waterlock push fit Valves it is essential that O/D of the pipe is free from paint or any other material for 25mm (15mm Valve) or 35mm (22mm Valve) from the cut end.

The Waterlock Valve is shown in the vertical position for illustrative purposes. It can be fitted in any orientation provided that the direction of flow is in the direction shown on the Valve.

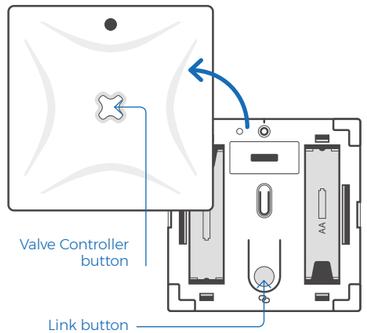
420 x 198mm

Folded in half horizontally.

69.75mm | 69.75mm | 69.75mm | 69.75mm | 70mm | 71mm

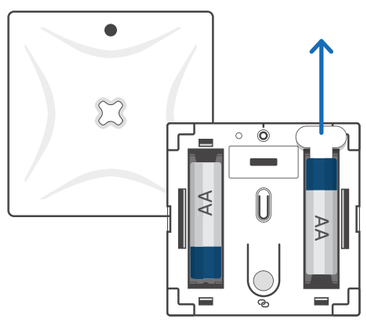
Fitting the Valve Controller

1



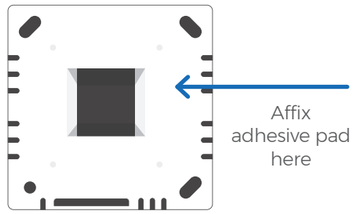
Unsnap cover from surface box by pulling up from the sides.

2



Pull out the white battery tab to activate the Valve Controller.

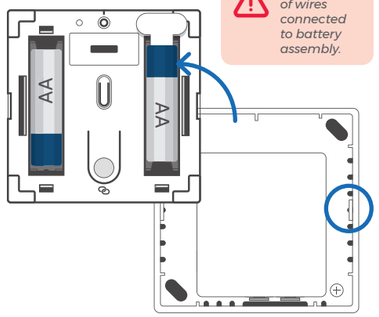
3



Use the pre-fixed self adhesive pad to attach the surface box to the chosen surface. The surface should be clean and free from dust and grease.

The surface to which the controller is to be fixed must be flat to prevent distortion and possible malfunction.

Alternatively use suitable No6 pan head screws to fix in place.

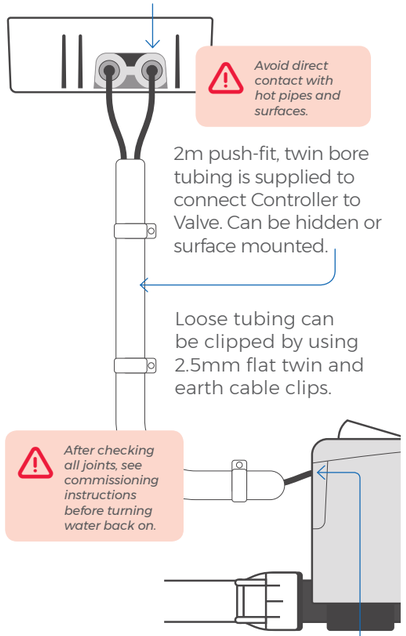


Be careful of wires connected to battery assembly.

Being careful of the connecting wires underneath, unsnap the battery assembly by pulling out the clips from sides of surface box (circled).

4

Fit the tubes into the push connections of the Valve Controller.



Avoid direct contact with hot pipes and surfaces.

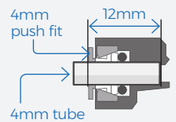
2m push-fit, twin bore tubing is supplied to connect Controller to Valve. Can be hidden or surface mounted.

Loose tubing can be clipped by using 2.5mm flat twin and earth cable clips.

After checking all joints, see commissioning instructions before turning water back on.

Fit the other end of the 4mm tubes into the push connections of the Valve.

Section through 4mm push fit showing tube depth insertion.

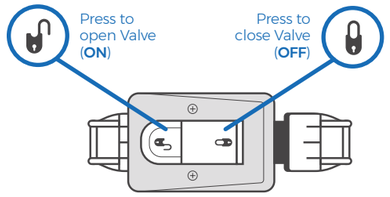


If it is intended to lay the pipework or tubing into concrete or masonry, conduit pipe with access boxes for the fittings must be used. This is in accordance with Water Regulations scheme 2.7 and BS8000.

Operating and testing

Switching at the Valve

1. The rocker switch on the Valve enables the Valve to turn off the water at pressures between 0 - 10 bar.
2. Press the Lock symbol to close the Valve (water **OFF**), press the unlock symbol to open the Valve (water **ON**).



Switching at the Valve Controller

1. The Valve Controller enables the Valve to turn **OFF** the water at pressures between 0.5 - 10 bar.
2. Press the Valve Controller button and hold (3sec) to cycle the water on and off. The motor operation can be heard and LED observed to confirm operation.

NOTE – Once water is flowing, both switches must be in the **ON** position for water to flow. A quick press of the Valve Controller button will show the Valve status. **GREEN = ON**, **RED = OFF**.

Commissioning

1. Press the Valve rocker to the **OFF** position and open the nearest cold water outlet.
2. Slowly turn the water supply back on, there may be a short burst of water at the open outlet, the water will turn off almost immediately. Press the rocker **OFF** and **ON** several times to check function and leave in the **ON** position. Also check for leaks.
3. After commissioning, cycle the Valve Controller to ensure motor operation and Valve closure.

Installation summary

Push fitting

Ensure that the Valve is sited where it will not be subjected to freezing. If this is not possible then the Valve and pipework must be protected using suitable insulating material.

1. Turn off the water supply.
2. **Replacing the stop valve:** Remove the existing stop valve.

   For the 15mm Valve, remove a 34mm section of pipe. For the 22mm Valve, remove a 53mm section of pipe - adjust and/or replace pipe work to suit. There should be sufficient movement to increase the gap to 88mm (for 15mm Valve) or 117mm (for 22mm Valve) to allow easy insertion.

   Ensure that the ends of the pipe work are clean cut and free from burr, fraze, paint etc. for 25mm (15mm Valve) or 35mm (22mm Valve).

   Push the Waterlock Valve onto the pipe ends, ensure there is full engagement into the Valve and that the direction of flow is correct. Lubrication of the ends of the pipe will assist - use approved lubricant.

   Fitting after an existing stop valve: For the 15mm Valve, remove a 34mm section of pipe. For the 22mm Valve, remove a 53mm section of pipe. This should be after the stop valve and before any draw off. There should be sufficient movement to increase the gap to 88mm (for 15mm Valve) or 117mm (for 22mm Valve) to allow easy insertion.

   Ensure that the ends of the pipe work are clean cut and free from burr, fraze, paint etc for 25mm (15mm Valve) or 35mm (22mm Valve).

   Push the Waterlock Valve onto the pipe ends, ensure there is full engagement into the Valve and that the direction of flow is correct. Lubrication of the ends of the pipe will assist - use approved lubricant.

Controller

1. Determine the position of the Valve Controller and routing of the tubing. The Controller can be up to 2 metres from the Valve body.
2. **DO NOT** shorten the tubing until it has been routed between the Controller and the Valve.
3. Use the self adhesive pad provided to fix the back box in place. Alternatively use 2 x No6 pan head or round head screws. The length and type of screw must suit the surface material that you are screwing into.

   NOTE – the opening in the sidewall requires sufficient space to route the 4mm tubing into.
4. Push the ends of each tube into the 4mm connections of the Module ensuring they are fully in (12mm).
5. At the Valve remove the excess tubing as required, leaving about 200 to 300 mm more than needed and bare the tubing to a min length of 50mm.
6. Push each of the tubes into the 4mm push fit connections on the top of the Valve ensuring that they are fully in (12mm).