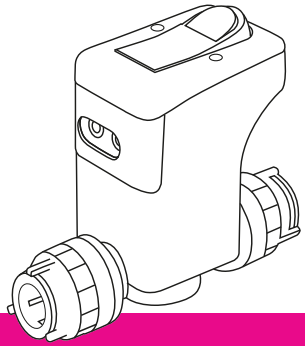
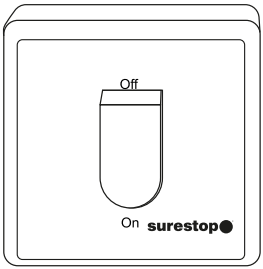
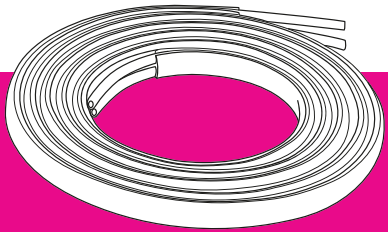
surestop®

Water Solutions & Service Provider







Pushfit Valve & Remote Switch Instructions

Please note:

- For new and existing water supplies, the RPL valve can be used as a direct replacement for the existing stop valve. It can often be easier to leave the existing valve in situ and fit the *Surestop*® valve after.

- A 4M head of water is required for operation from a header tank supply.

- 2M of tubing is supplied with all *Surestop* valve and remote switch kits. Alternatively, 4M of tubing can be fitted with the purchase of SS/04/EXT. A maximum of 6M can be achieved between the valve and switch by fitting the supplied 2M tubing and additional purchase of SS/04/EXT and connectors SP1015.

- Ensure tubing is routed to avoid all contact with hot pipes and surfaces. Routing through enclosed spaces must have adequate ventilation to avoid excessive temperatures which can result in premature ageing of the tubing.

- Access to the valve for operation and maintenance must be provided.

- There will be instances where the Earth Continuity of the property is reliant on the incoming mains pipework. The installation of the *Surestop* valve into the pipework may therefore compromise the Earth Continuity as the *Surestop* valve is of all plastic construction. In these circumstances the pipework should be bonded across the *Surestop* 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 Insitute of Electrical Engineer's regulations.

- After switching the water off with the *Surestop* valve, the residual water within the system will flow and then drip until drained off. The time for the residual water to drain off will vary upon the length of the pipework and the way it has been installed.

- If there is a leak in the system, the nearest draw-off point to the *Surestop* valve should be opened in addition to switching off the *Surestop* valve. This will ensure that the bulk of the residual water is drained so that the leak can be dealt with properly.

- Ensure the *Surestop* is sited where it is not subject to freezing. If that is not possible then the Surestop and pipework must be protected from freezing using suitable installation material.

Valve installation:

PUSH FITTING (values in mm)			
Product	**Gap A- pipe cut-out**	**Gap B- pipe spread**	**Pipe dia**
SS/15/SPL	34.0	min 88.0	15.0
SS/15/RPL			
SS/22/SPL	53.0	min 117.0	22.0
SS/22/RPL			

1 Turn off the water supply.

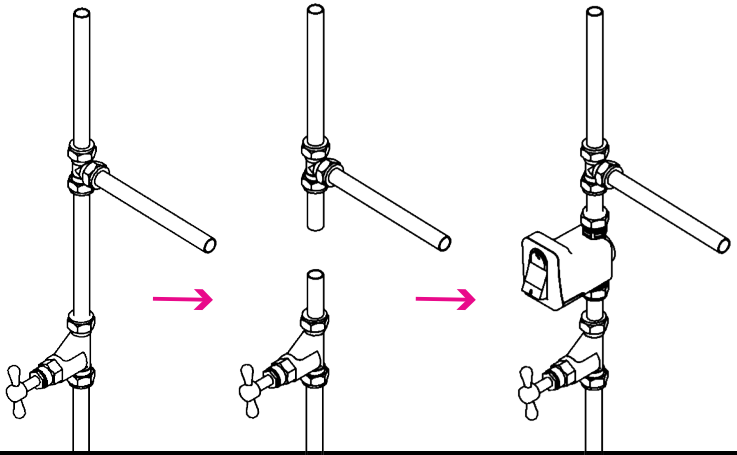
2a **If fitting after an existing stop valve:**

Follow the above table for GAP A.

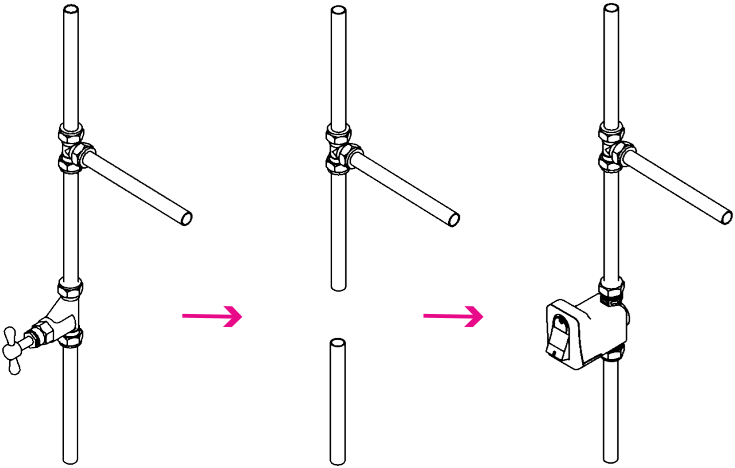
Remove a 34mm (for a 15mm valve) or 53mm (for a 22mm valve) section of pipe. This should be after the stop valve and before any draw off.

Follow the above table for GAP B.

There should be the ability to spread the pipes to increase the gap to 88mm (for a 15mm valve) or 117mm (for a 22mm valve) to allow for easy insertion.



2b **If replacing the stop valve:**
Remove the existing stop valve. There should be a gap of 34mm (for a 15mm valve) or 53mm (for a 22mm valve), adjust &/or replace pipework to suit.
There should be movement to increase the gap to 88mm (for a 15mm valve) or 117mm (for a 22mm valve) to allow for easy insertion.



3 Ensure the ends of the pipe are clean cut and free from burr and paint for 25mm (for a 15mm valve) or 35mm (for a 22mm valve).

4 Push the *Surestop* valve onto the pipe ends. Ensure there is full engagement into the valve and that the direction of the flow is correct.

Remote switch installation:

- Determine the position of the switch and if the tubing is to be routed on the surface, hidden or a combination of both.

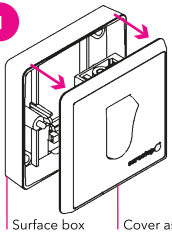
  The switch can be fitted 2M from the valve when using the tubing supplied. Purchase of SS/04/EXT and connectors SP1015 can increase this to 4M or 6M.

- Route the tubing before fixing the switch in place.

- The tubing is to be retained in the switch via the cable tie around the sheathing. The tubes are to be cut to a length of 90mm at the switch.

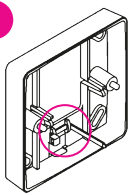
- **Do not** shorten the tubing until it has been routed between the switch and the valve.

1



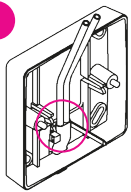
Unsnap cover assembly from surface box.

2



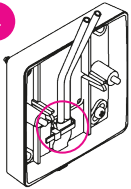
Position cable tie through location lugs.

3

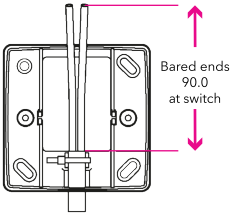


Place prepared tube with sleeve on cable tie.

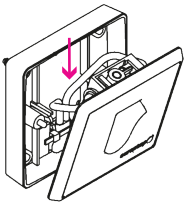
4

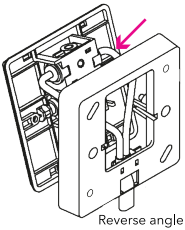


Tighten cable tie to retain tubing sleeve.

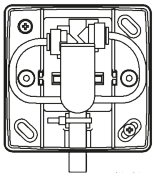


5 Use 4x No. 6 pan head screws to fix switch in place. Diagonals preferred. The surface to which the switch is attached **must be flat** to prevent distortion and possible malfunction.



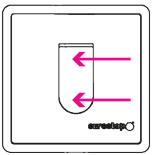


Reverse angle



Front view of cable routing inside surface box

6 Fit 4mm tubes into push connections.12mm insertion. Complete the commissioning and then snap the cover assembly back to surface box.
If cover assembly does not snap back to surface box, either the tubes are not routed correctly, or the surface box may be distorted if not attached to a flat surface.



7 Press square end down for OFF. Press round end down for ON.

Recessing the switch:

The remote switch can also be recessed. Please following the following instruction to prepare and fit the remote switch in a recessed position.

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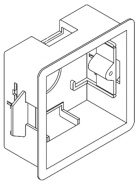
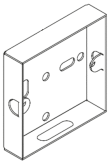
1 Fit your box
(dry line or plaster depth back box appropriate for your wall type).



25mm dry line backing box
for recessing into dry line walls



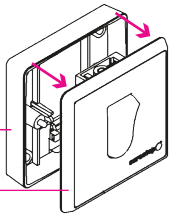
16mm steel backing box
for recessing into plastered solid walls

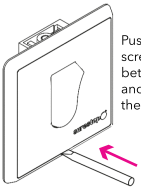
2 Prepare the switch as per the diagrams below.

Surface mounting switch as supplied

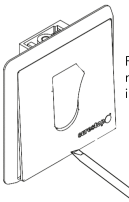
Discard surface box for recessed fitting

Unsnap cover assembly from surface box



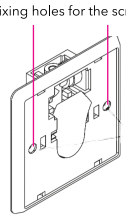


Push bladed screwdriver into gap between the cover and insert to release the clips



Push down to remove the insert

Fixing holes for the screws

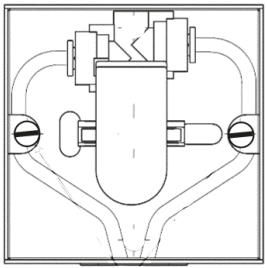


Place the insert safely to one side

3 Fit the switch to one of the 90mm bared ends at the backing box. **DO NOT secure the switch to the backing box.**

4 Fit the other bared end to the valve.

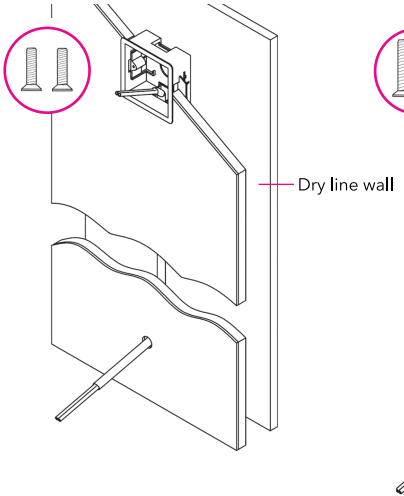
5 Check all joints and follow the commission procedure. Once it is shown during commission that the *Surestop* is working and there are no leaks from any joints the switch can be fitted to the back box.



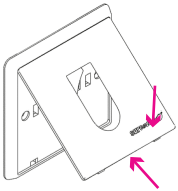
How tubing should lie in backing box. **Do not let screws trap or damage tubing.**

6 **When fitting a dry line box use 2 of M 3.5 x 20 csk slotted screws.** The tubing will spread to fill the box but ensure the screws do not trap or damage the tubing.

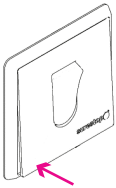
7 **When fitting a steel plaster box use 2 of M 3.5 x 25 csk slotted screws.** The tubing will spread to fill the box but ensure the screws do not trap or damage the tubing.



8 Replace the cover insert.



Push to locate lugs into slots



Push until 'click'

Operating & testing:

Water can be isolated either via the remote switch or the valve rocker switch but both switches must be open to allow the water to flow.

Switching at the valve:

1. The rocker switch on the valve enables the valve to turn off the water at pressures between 2 and 10 BAR.
2. Press the lock symbol to close the water valve (water off). Press the unlock symbol to open the valve (water on).

Switching at the remote switch:

1. The remote switch enables the valve to turn off the water at pressures between 0.5 and 10 BAR.
2. Press the rocker on the remote switch to the OFF position (square end down) to close the valve (water off). Press the rocker on the remote switch to the ON position (round end down) to open the valve (water on).

Commissioning:

1. Press the rocker to the OFF position and open the nearest water outlet. Open ended pipework should be capped prior to opening water supply.
2. Slowly turn the water supply back on. There may be a short burst of water at the open outlets, the water will turn off almost immediately. Press the rocker OFF and ON several times to check function and leave in the ON position. Check for leaks during the function test.
3. After commissioning the cover assembly can be snapped back onto the surface box (where fitted). Arrange the tubes as shown in the diagrams provided.

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