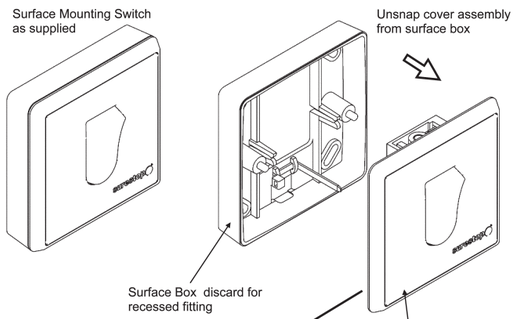
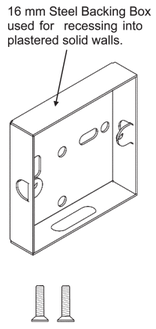
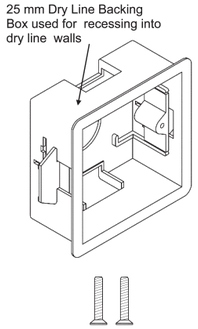
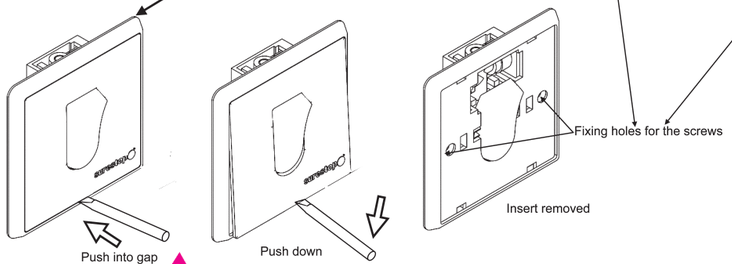
Recessing the Switch

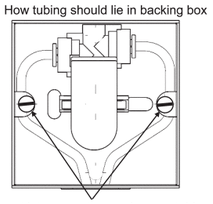
Preparing the switch for recessed fitting





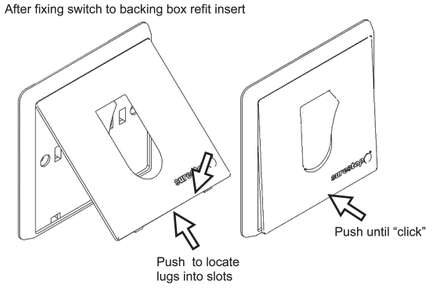


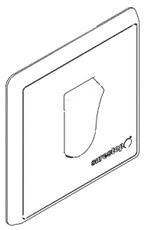


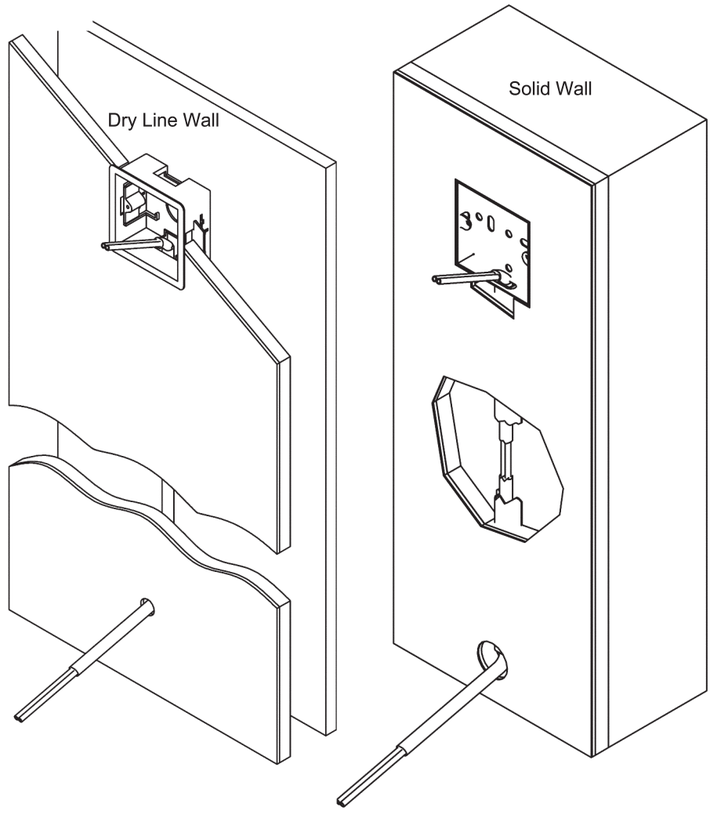


Use a bladed screwdriver inserted in the gap between the cover and insert to release the clips and remove the insert. Place the insert safely to one side.

After fixing switch to backing box refit insert







Installation Summary for Recessed Switches.

1. Fit your box (Dry Line or Plaster depth and tubing as per one of the schematics shown appropriate for your wall type.
2. Prepare the switch as per the diagrams.
3. Fit the switch to the one of the 90 mm bared ends at the backing box. DO NOT secure the switch to the backing box.
4. Fit the other bared end to the valve. See other instructions on this sheet for installing the valve.
5. Check all joints and then follow the commissioning procedure given elsewhere on this sheet. Once it is shown that the Surestop is working and that there are no leaks from any joints the switch can be fitted to the backing box.
6. For the dry line box use 2 off M3.5 x 20 csk slotted screws. The tubing will spread to fill the box but ensure that the screws DO NOT TRAP OR DAMAGE the tubing.
7. For the steel box use 2 off M3.5 x 25 csk slotted screws . The tubing will spread to fill the box but ensure that the screws DO NOT TRAP AND OR DAMAGE the tubing
8. Replace the cover insert.

Manufactured in England.
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WRAS APPROVED PRODUCT

M082334 SS1206

Installation Summary's (see diagrams overleaf)

Compression Fitting

1. Turn off the water supply
2. A. **Fitting after an existing stop valve:** All products remove a 55mm (15mm valve) or 58mm (22mm valve) section of pipe. This should be after the stop valve and before any draw off. There should be movement to increase the gap to 81mm (15mm valve) or 86mm (22mm valve) to allow easy insertion.
2. B. **Replacing the stop valve: NOT RCM and RPM product** Remove the existing stop valve. There should be a gap of 55mm (15mm valve) or 58mm (22mm valve) - adjust pipe work to suit. There should also be movement to increase the gap to 81mm (15mm valve) or 86mm (22mm valve) to allow easy insertion.
3. Ensure that the ends of the pipe work are clean cut & free from burr, fraze, paint etc for at least 16mm.
4. Fit the Surestop c/w nuts and olives onto the pipe ends, ensure there is full engagement into the valve & that the direction of flow is correct. Tighten the nuts finger tight and then a further 1 to 1 ½ turns (maximum 45 Nm, and tighten to 35 Nm), to effect a seal. Always use a hexagon form on the body to counter the turning when tightening – DO NOT USE THE MAIN BODY. (see note overleaf about use of existing nuts & olives).

Push Fitting

1. Turn off the water supply
2. A. **Fitting after an existing stop valve:** All Product Remove a 34mm (15mm valve) or 53mm (22mm valve) section of pipe. This should be after the stop valve and before any draw off. There should be movement to increase the gap to 88mm (15mm valve) or 117mm (22mm valve) to allow easy insertion.
2. B. **Replacing the stop valve: NOT RCM and RPM product** Remove the existing stop valve. There should be a gap of 34mm (15mm valve) or 53mm (22mm valve) - adjust & or replace pipe work to suit. There should also be movement to increase the gap to 88mm (15mm valve) or 117mm (22mm valve) to allow easy insertion.
3. Ensure that the ends of the pipe work are clean cut & free from burr, fraze, paint etc for 25mm (15mm valve) or 35mm (22mm valve).
4. Push the Surestop onto the pipe ends, ensure there is full engagement into the valve & that the direction of flow is correct. Lubrication of the ends of the pipe will assist - use approved lubricant.

Remote Switch Surface Box

1. Determine the position of the remote switch and whether the tubing is to be routed on the surface or hidden or a combination of both. The switch can be up to 2 metres from the valve body (the use of extension kit(s) can increase this to 6 metres).
2. Combined hidden and surface routing the tubing should be routed before fixing the switch in the chosen place.
3. The tubing is to be retained in the switch via the cable tie around the sheathing. The tubes are to be bared to a length of 90.0 mm at the switch.
4. DO NOT shorten the tubing until it has been routed between the switch and the valve.
5. Use 4 x No 6 pan head or round head screws.
6. Push the ends of each tube into the 4 mm push fit connections of the switch ensuring that they are fully in (12 mm).
7. It is recommended that the cover assembly is not snapped back in place until the commissioning is complete.
8. At the valve (RCM and RPM only) you can remove the excess tubing, leave about 200 to 300 mm more than needed and bare the tubing to a min length of 50.0 mm.
9. Push each of the tubes into the 4 mm push fit connections on the top of the valve ensuring that they are fully in (12 mm)

Additional notes and comments on the Installation and operation of your Surestop

1. It is essential that the ends of the pipe work - copper or plastic - are completely free from any burr, fraze or sharp edges that are liable to cut or damage the “O” ring seals within the joints.
2. When cleaning paint etc from existing pipe work DO NOT remove metal from the outside diameter as this may make the pipe work unable to seal properly on the “O” ring seals or the Olives
3. After switching the water off with the Surestop the residual water within the system will flow and then drip for a while until it has drained off. The time taken will vary upon the volume of the pipe work and the way it has been run.
4. If there is a leak in the system the nearest draw off point to the Surestop should be opened in addition to switching off the Surestop. This will ensure that the bulk of the residual water is drained so that the leak can be dealt with properly.
5. Ensure that the Surestop is sited where it will not be subjected to freezing. If this is not possible then the Surestop and the pipe work must be protected from freezing, using suitable insulating material.
6. When using extension kits. Turn off the water supply, remove the existing tube from the valve and connect one end of the extension to the valve, connect the free ends using the straight connectors provided Full instructions are supplied with the extension kit.

surestop® water switch

Powered by water - turn off at the flick of a switch

Installation and Operating Instructions for the Surestop range of Stop Valves and Service Valves

Features and Requirements

Product	Push Fit	Compression Fit	Pipe Size 15 x 15 Copper/ Plastic	Pipe Size 22 x 22 Copper/ Plastic	Stop Valve	Service Valve	Remote Switch	Valve Switch	Min Bar @ all Temps	Max Bar @ 23°C	Max Bar @ 60°C
SS/15/RCM		●	●			●	●		0.5	10	3
SS/22/RCM		●		●		●	●				
SS/15/RPM	●		●			●	●				
SS/22/RPM	●			●		●	●				
SS/15/SCL		●	●		●		OPT	●	0		
SS/22/SCL		●		●	●		OPT	●			
SS/15/SPL	●		●		●		OPT	●			
SS/22/SPL	●			●	●		OPT	●			
SS/15/RCL		●	●		●		●	●			
SS/22/RCL		●		●	●		●	●			
SS/15/RPL	●		●		●		●	●			
SS/22/RPL	●			●	●		●	●			

OPT - see 3 below

Please Note

1. Existing Water Supplies
A) The Stop Valve products (SCL, SPL,RCL,RPL) 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 the Surestop after.
B) The RCM & RPM products are service valves and require the existing stop valve to remain in place. The Surestop is fitted after.
2. New Water Supplies
A) The Stop Valve products (SCL, SPL, RCL, RPL) can all be used as the primary stop valve.
B) The RCM & RPM products require a stop valve to be fitted in the supply before them.
3 OPT in the table above means that upgrade kit SS/02/UPK can be fitted to products SCL & SPL at a later date in order to provide remote switching operation. Fitting instructions are provide with this kit.
4 Header Tank Supply :- A 4M head of water is required for operation from a tank fed supply.
5. The standard length of tubing supplied with remote switches is 2M this can be extended to a maximum of 6M by using extension kit SS/02/EXT.
6. 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.
7. When fitted into cupboards etc access to the valve for operation and possible future maintenance must be provided.

Your Surestop product when purchased through an authorised retailer comes with a 2 year guarantee as standard.

The standard guarantee for your Surestop product covers mechanical and material defects, but does not include labour charges.

Any Surestop that is found to be faulty after inspection by Surestop Ltd within our testing laboratory will be repaired or replaced free of charge providing it has been installed in accordance with the fitting and operating instructions.

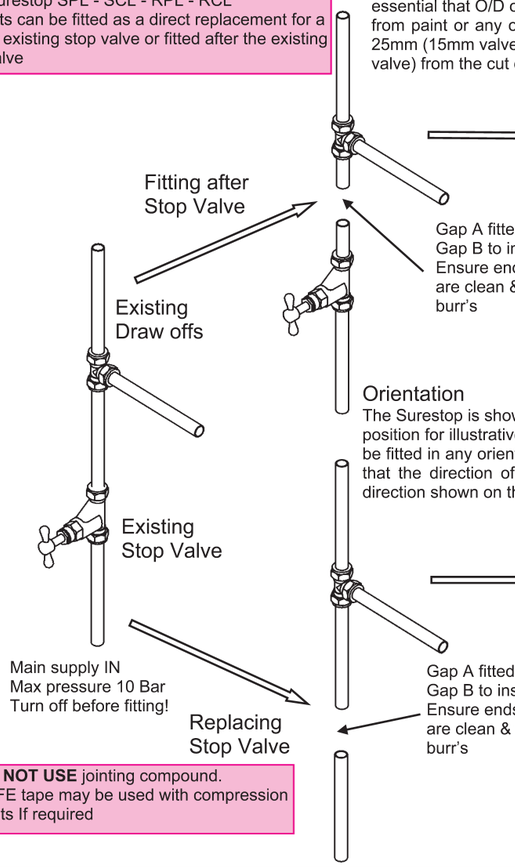
Your guarantee does not cover damage caused by external sources such as debris in the water supply or incorrect installation. If it is suspected that debris may be present in the supply, then a suitable inline filter should be fitted prior to the Surestop.

This does not affect your statutory rights.

Stop Valves - Fitting

The Surestop SPL - SCL - RPL - RCL products can be fitted as a direct replacement for a new or existing stop valve or fitted after the existing stop valve

Note!
For all the Surestop 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.



DO NOT USE jointing compound.
PTFE tape may be used with compression joints If required

Orientation

The Surestop 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

PUSH FITTING			
Product	Gap A Fitted	Gap B To Insert	Pipe Dia
SS/15/RPM, SS/15/SCL, SS/15/RPL	34.0	88.0	15.0
SS/22/RCM, SS/22/SCL, SS/22/RPL	53.0	117.0	22.0

Pipe Work
Copper or Plastic

COMPRESSION FITTING			
Product	Gap A Fitted	Gap B To Insert	Pipe Dia
SS/15/RCM, SS/22/SCL, SS/15/RCL	55.0	81.0	15.0
SS/22/RCM, SS/22/SCL, SS/22/RCL	58.0	86.0	22.0

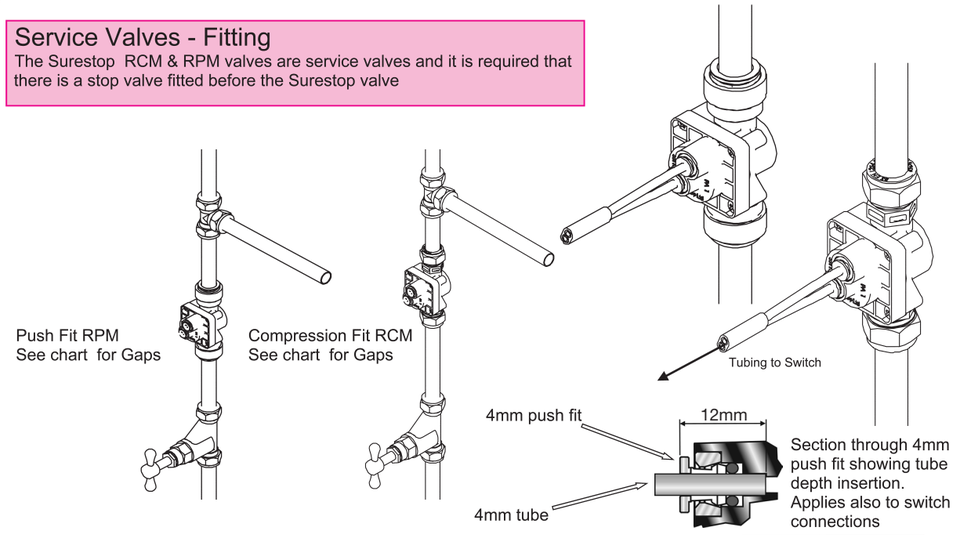
Note!
For all the Surestop stop valve compression fit valves it may be possible to use the retained Nuts & Olives of the removed stop valve provided that the threads are G½ for the 15mm & G¾ for the 22mm and that the condition of the Olives are good.
DO NOT CROSS THREAD.
Jointing compounds must not be used. PTFE tape may be used if required

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

Please Note that the tubing is pre connected to the products RPL and RCL

Service Valves - Fitting

The Surestop RCM & RPM valves are service valves and it is required that there is a stop valve fitted before the Surestop valve



Operating and Testing

Switching at the Valve - Products SPL - SCL - RPL - RCL

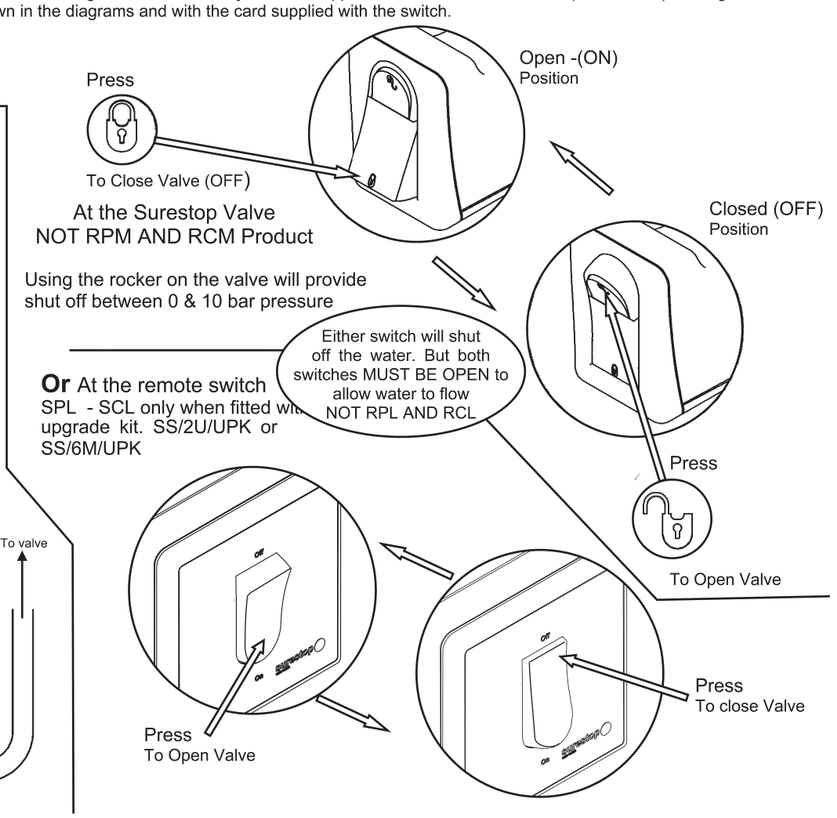
1. The rocker Switch on the Valve enables the valve to turn off the water at pressures between 0 & 10 bar.
2. Press the Lock symbol to close the valve (water OFF) Press the unlock symbol to open the valve (water ON)

Switching at the Remote Switch - Products RPL - RCL - RPM - RCM

1. The Remote Switch enables the valve to turn OFF the water at pressures between 0.5 & 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 to the remote switch to the "ON" position (ROUND END DOWN) to close the Valve (water OFF).
3. The RPM & RCM can only be operated this way. The RPL & RCL can be operated by either of the switches but both switches **MUST BE OPEN** to allow water to flow

Commissioning

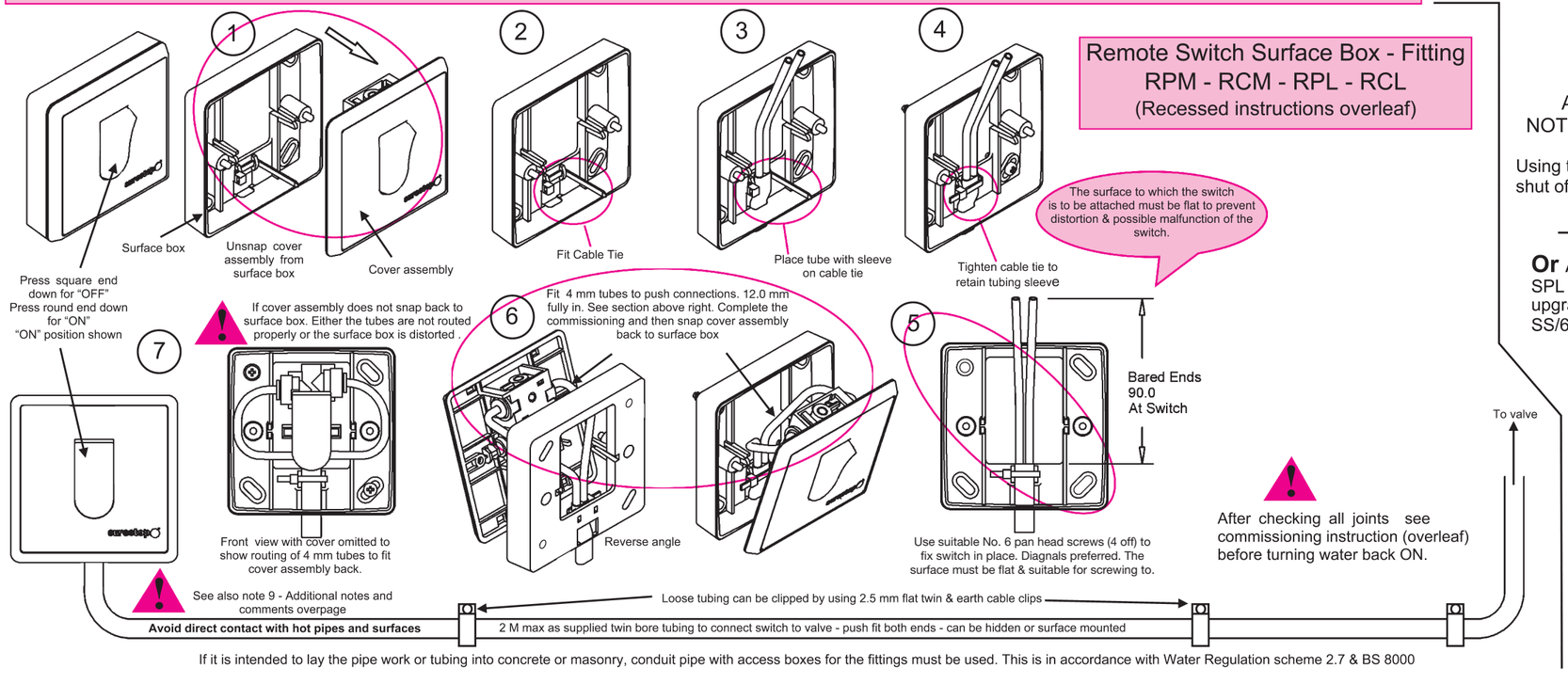
1. Press the rocker to the OFF position and open the nearest cold water outlet.
2. Slowly turn the water supply back on, there may be a short burst of water at the open outlet, the water will turn off almost immediately. Press the rocker OFF and on several times to check function and leave in the ON position. Also check for leaks.
3. After commissioning the cover assembly can be snapped back onto the surface box (where fitted). Arrange the tubes as shown in the diagrams and with the card supplied with the switch.



Earth Continuity: **USE SURESTOP CROSS BONDING KIT SS/15/EBK OR SS/22/EBK**
There will be instances where the Earth Continuity of the property is reliant on the the incoming mains pipe work. The installation of the Surestop into the pipe work may therefore compromise the Earth Continuity as the Surestop is of all plastic construction. In such circumstances the pipe work should be bonded across the Surestop. 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.

Remote Switch Surface Box - Fitting RPM - RCM - RPL - RCL

(Recessed instructions overleaf)



If it is intended to lay the pipe work or tubing into concrete or masonry, conduit pipe with access boxes for the fittings must be used. This is in accordance with Water Regulation scheme 2.7 & BS 8000