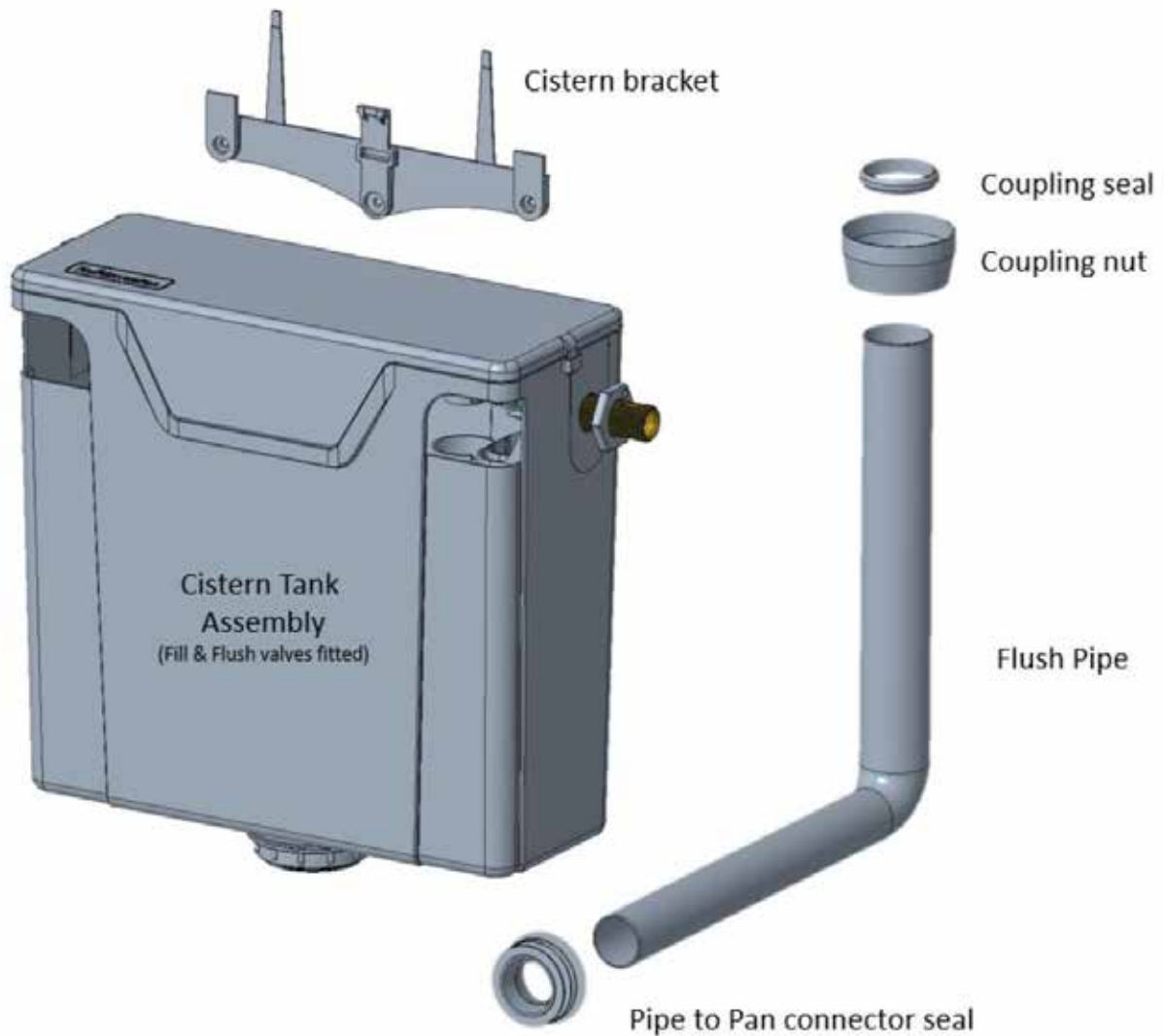


Water Saving Compact Cistern Installation Instructions

Pack contents:



Attention to Installer

- Please read these instructions fully before installation
- Please leave these instructions for the end user for reference.

Dear Customer, Thank you for purchasing the Fluidmaster Compact Concealed cistern.

Important: Before commencing installation read this booklet fully then check the following:-

- Check for defects including damage, cracks or manufacturing faults.
- Check all components listed are present.
- Check inlet valve is on the correct side for your installation.
- Check that the flow controller is required in the inlet valve (refer to inlet valve instructions).
- Ensure there is enough room around the cistern to mount the flush plate or button.

Whereas all care has been taken to ensure all of the nuts are tight, please make sure no nuts have come loose in transit

Product Characteristics

- The cistern is preset to appropriate settings but can be adjusted to suit your water saving requirements explained further on in this booklet
- Ensure that the toilet being used with this cistern is suitable for stated flush volume.
- Pressure to the cistern should be between 0.1 bar (3 P.S.I) and 10 bar (150 P.S.I). Operation will be affected outside of these parameters.
- An isolation valve (supplied in some models) must be fitted before the cistern, this is to isolate the cistern from supply for maintenance.

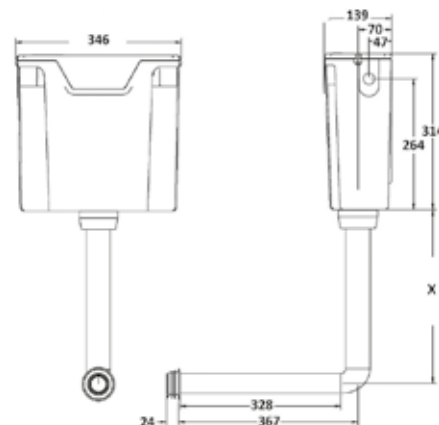
Installation Precautions

- Ensure pipework is flushed out before installation.
- Installation must be carried out to these instructions.
- Do not use plumbers sealing putty or silicon sealants on any fittings.

- Ensure that frames, furniture and wall constructions can adequately carry the cistern when filled with 6 kg of water.
- It is recommended to fit an in line pressure reducing valve when pressure is over 10 bar static pressure.

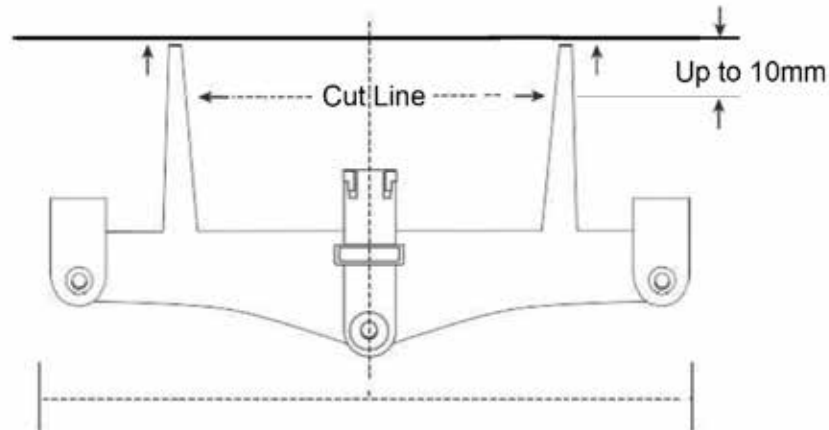
Warranty Exclusions

- Defects due to operation outside the recommended pressures.
- Defects due to foreign bodies, dirt, silt, silicon sealant, plumbers sealing putty or plaster in the cistern introduced after or during installation.
- Defects caused by faulty installation either incorrect to this instruction or outside of water regulations for the country of installation.
- Surface damage proven to be caused on site or during warehousing.
- Damage caused by bleach, strong cleaners. Fluidmaster do not recommend use of any in tank cleaning products, strong bleaches or acid cleaners. Use of these may result in failure possibly causing property damage.
- Note that the warranty period starts on delivery date as per a corresponding invoice and is valid for one year from that time against manufacturing defect.

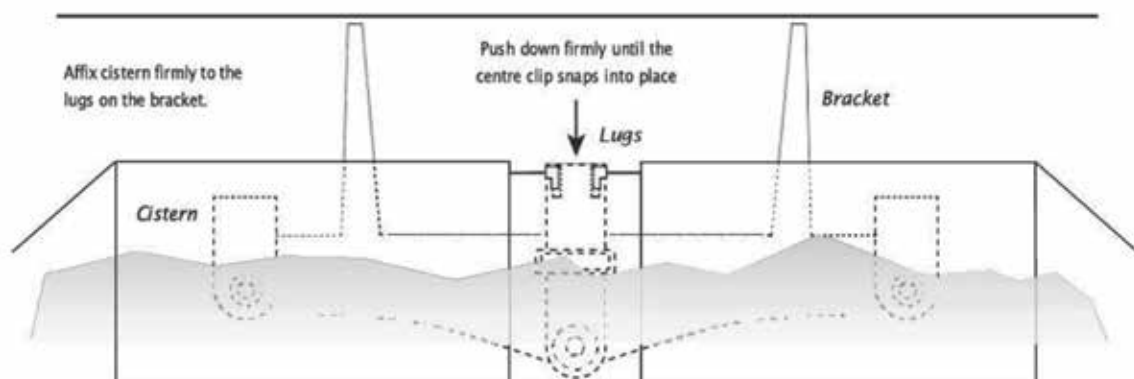


Installing the Cistern and Fixing Bracket

1. Position and fix the cistern support bracket in line with the waste outlet of the WC. Ensure the indicator tabs are both level. The tabs on the fixing bracket indicate the space required for the lid to be removed and provide clearance for valve removal through the front entry opening of the cistern.



2. It is advisable to make plumbing and pipework connections before installing the cistern so that connections e.g. soldering, doesn't have to be made in restricted working spaces.
3. When the bracket is firmly fixed, the cistern can be secured to the bracket. Hold the cistern centrally to the bracket aligning the lugs with the recesses in the back of the cistern.

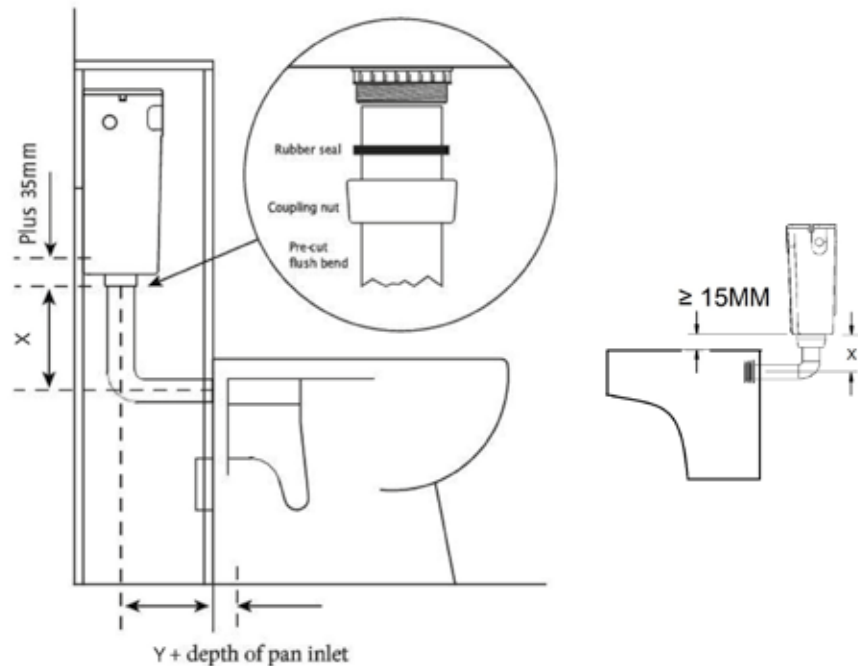


4. Gradually lower the cistern to engage on the lugs and push down firmly until the centre clip snaps into place. Moderate lateral movement is available to assist with WC pan alignment.
5. Complete supply plumbing connections as installation requires. It is recommend that this is completed by a qualified plumber.

- If required cut the cistern flush pipe to size 'X' remember that the large end of the pipe requires 35mm to project into the cistern valve. It is recommended to position the pan and check measurements before cutting. Remember to allow for the projection into the toilet inlet.

The flush bend must not be cut short enough to reduce the distance from the bottom of the cistern, to the spill over of the pan, to any less than 15mm.

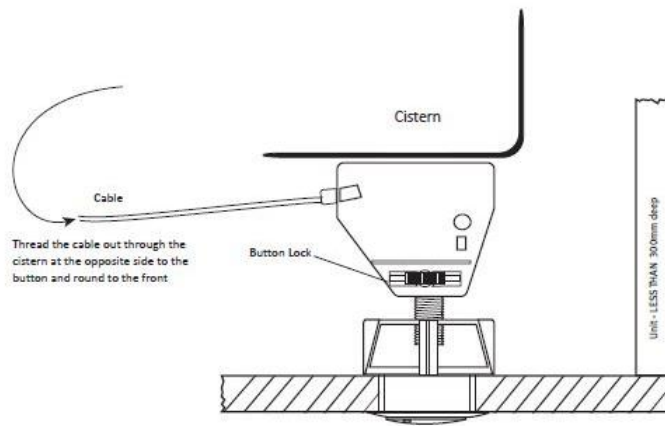
- When satisfied with fit, push the pipe to pan connector supplied onto the narrow end of the flush pipe.



- When satisfied that the WC and flush pipe are correctly positioned push the black WC inlet connector securely into the WC inlet.
- Ensure waste connections required for the application are suitable for the waste connection, refer to a qualified plumber if unsure, and loosely fix the WC as per WC manufacturer's instruction.
- When the WC is loosely in position, ensure rubber seal is in position as shown, then tighten the coupling nut on the flush valve to ensure a leak proof joint. Ensure the flush pipe and the pan connector seal are firmly in place in the WC.
- Mount the flush plate or button and connect to the flush valve.
- Remember to allow access to the cistern for maintenance and final settings.
- Turn on the water after all connections have been made and if necessary adjust the inlet valve to give correct water level. This should be verified by the installer.
- Place lid onto the cistern making sure it is clipped into place.
- Before replacing the access panel ensure the cable is following in a smooth arc from valve to button and not kinked, bent, restricted or interfering with the filling valve mechanism.
- Check the button or flush plate operates the valve correctly.

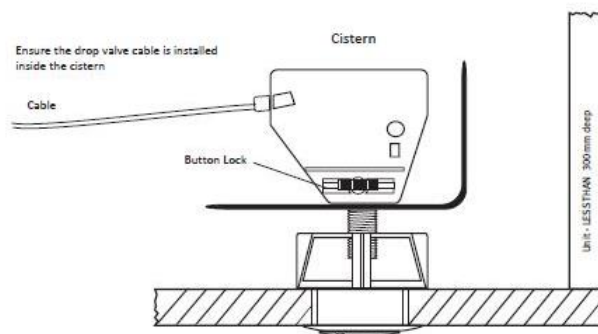
Fluidmaster Flush Valve

12. If the unit is **MORE THAN 300mm deep** the position of the button can be adjusted to suit. Position the run of the cable as shown below for this application. **Note that the hole size is 38mm/40mm Diameter for the button.**



Fluidmaster Flush Valve

13. For units **LESS THAN 300mm deep** the cable should be positioned inside the cistern as shown below

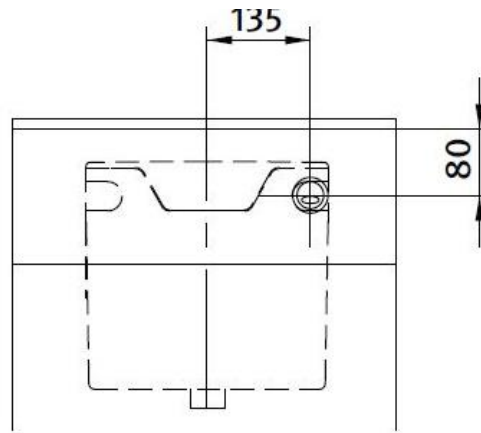


Fluidmaster Flush Valve

Note the position of the button in the cistern aperture.

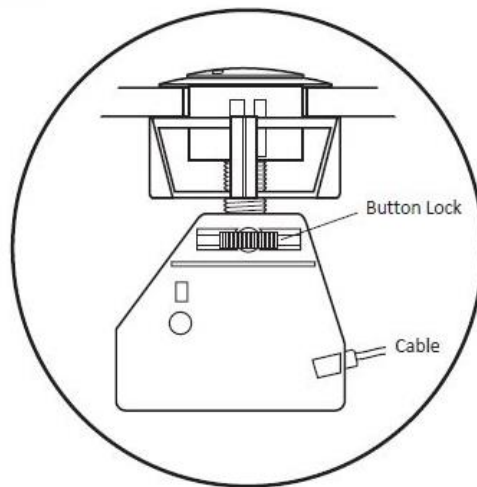
IMPORTANT - Ensure cable runs through in a smooth arc to prevent valve failure, do not twist, kink or bend cable at sharp angles.

14. The ideal dimensions for positioning the cistern button as shown.
Note that the hole size is 38mm/40mm Diameter.



15. **Fluidmaster Flush Valve -**

Connect the button by fixing the button to the front face of the unit using the large outer nut, press slide 'A' to attach the button.



16. Turn on the water after all connections have been made and if necessary adjust the inlet valve to correct the waterline. This should be verified by the installer.
17. Place the lid onto the cistern and click side clips in place.
18. Before replacing the access panel into position please ensure the cable is not restricted or compressed to prevent operation of the button. Also extra care should be taken to ensure that in narrow units the housing at the rear of pushbutton fits into the cistern cut outs.
19. Check the button operates the valve correctly and closes when released.

Important Notes

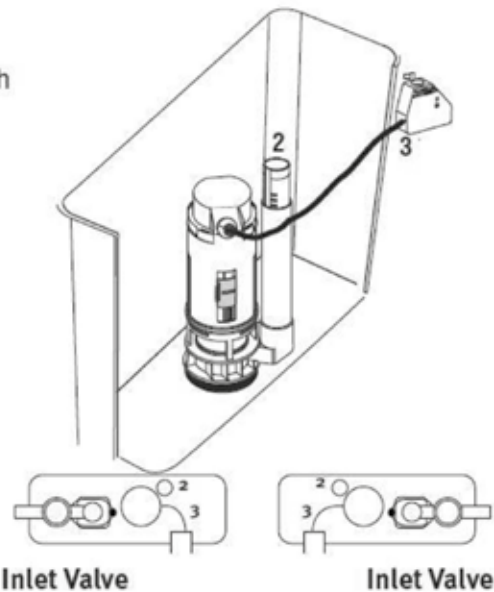
It is the responsibility of the installer to ensure that all joints in the tank are water tight even on pre-installed units before leaving site.

Never allow the front facia to hang suspended by the cable only this will affect operation and cause "kinks" in the cable.

Assembly of the cistern

Flush and inlet valve are pre-assembled follow these instructions if unit requires the inlet valve on the opposite side.

1. Before beginning installation consider which side the inlet valve should be positioned.
2. Position the valve inside the tank ensuring internal seal washer is on the threaded shank first. Push down on the valve body and tighten up lock nut. *The cable (3) and overflow (2) should be positioned the opposite side to the valve see picture opposite.* *Note the position of the overflow is important to the operation dependant on which side the inlet is positioned.*



Flush Valve Settings:

Flush valve comes **factory set to deliver a 6L/4L flush** in the Fluidmaster Compact Cistern. Unless specified, the valve will be set to deliver no more than maximum permissible volumes. Use the following guides to adjust your flush volumes accordingly.

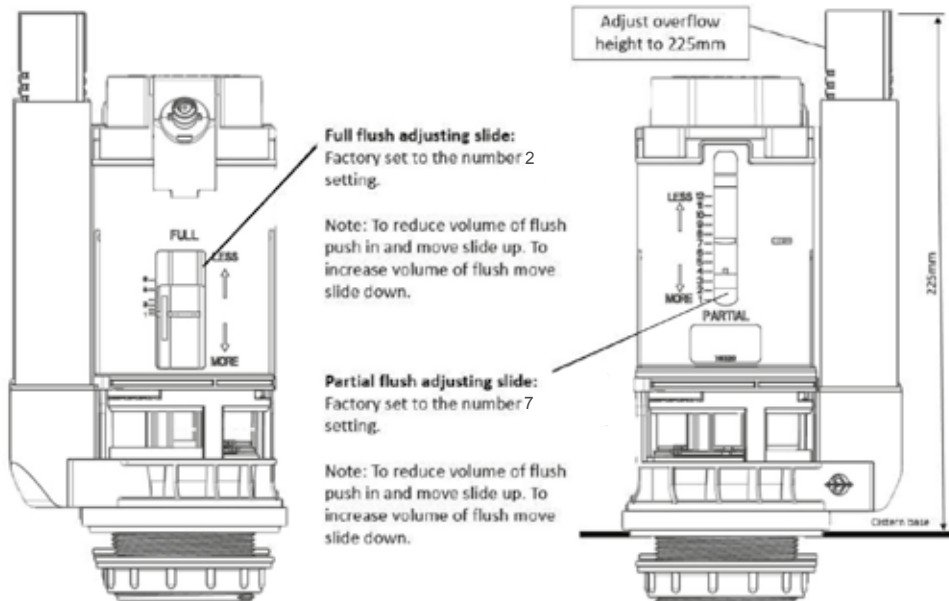
6 & 4L Flush		
Setting	Water Level (mm)	Overflow (mm)
FF #2		225
PF #7	198	(4 Notches)

Marked Water Level Volumes

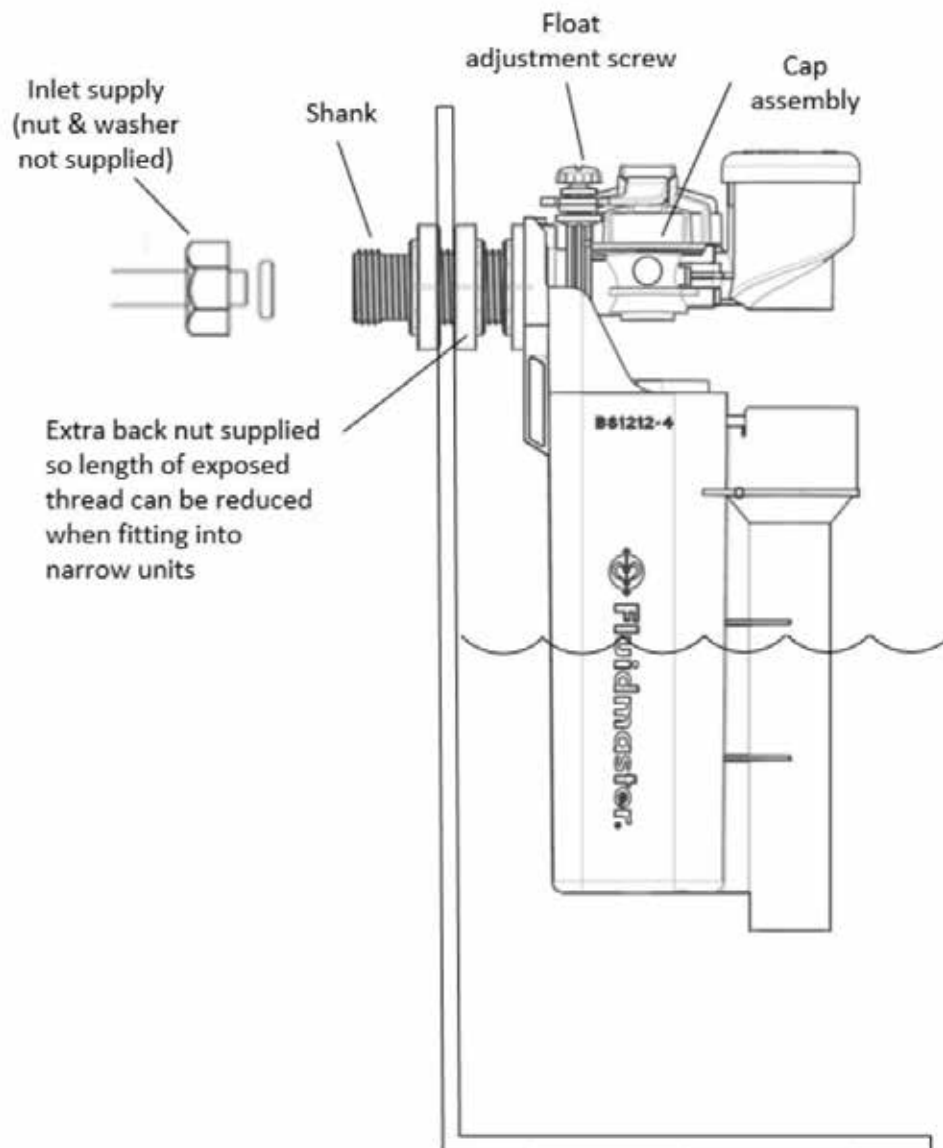
6&4L 5&3L

198mm

5 & 3L Flush		
Setting	Water Level (mm)	Overflow (mm)
FF #6		225
PF #11	198	(4 Notches)



6000 series Air gap - Side inlet valve installation:



Check the water line, if adjustment is required use Float adjustment screw to adjust the float up and down to fill to the water line marked in the cistern.

Note: A push fit blanking plug is supplied to blank the opposite side inlet hole of the cistern tank.

Bottom inlet valve installation

Assemble the valve as shown in diagram.

Ensure that the critical level mark is minimum 25mm above the highest level of the overflow on the outlet valve.

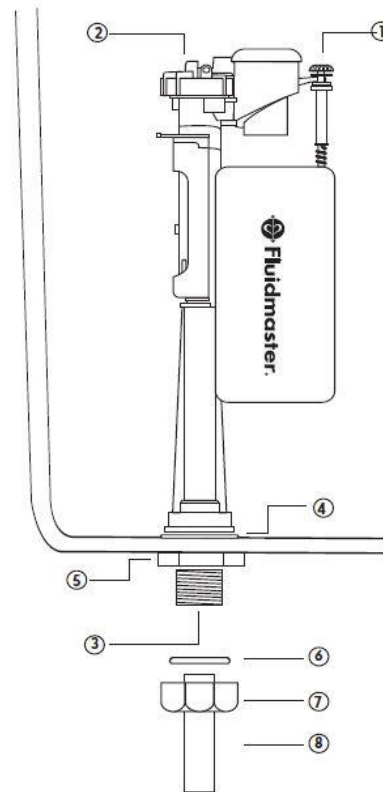
Ensure the float is set to the water level.

- | |
|---------------------------------|
| 1. Float adjustment screw |
| 2. Cap Assembly |
| 3. 1/2" or 3/8" threaded shank |
| 4. Washer |
| 5. Back Nut |
| 6. Washer seal (not supplied) |
| 7. Tap Connector (Not supplied) |
| 8. Supply line |

Check the water line, if adjustment is required use the screw to adjust the float up and down to fill to the water line marked in the cistern.

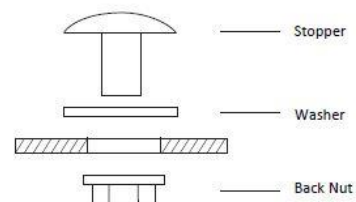
Note:

If it is a Low Pressure System (<0.7 bar 10 p.s.i) then the flow controller should be removed before connecting water.



Stopper

- For bottom inlet cistern use the hole stopper to plug the spare hole, ensure that the rubber seal is inside the plastic tank and ensure that the joint is water tight. Do not overtighten. A push in hole cover is supplied for side entry products.
- Once satisfied that the joints are water tight then refer to page 4 for installation of the cistern and onto the bracket and into concealed applications.



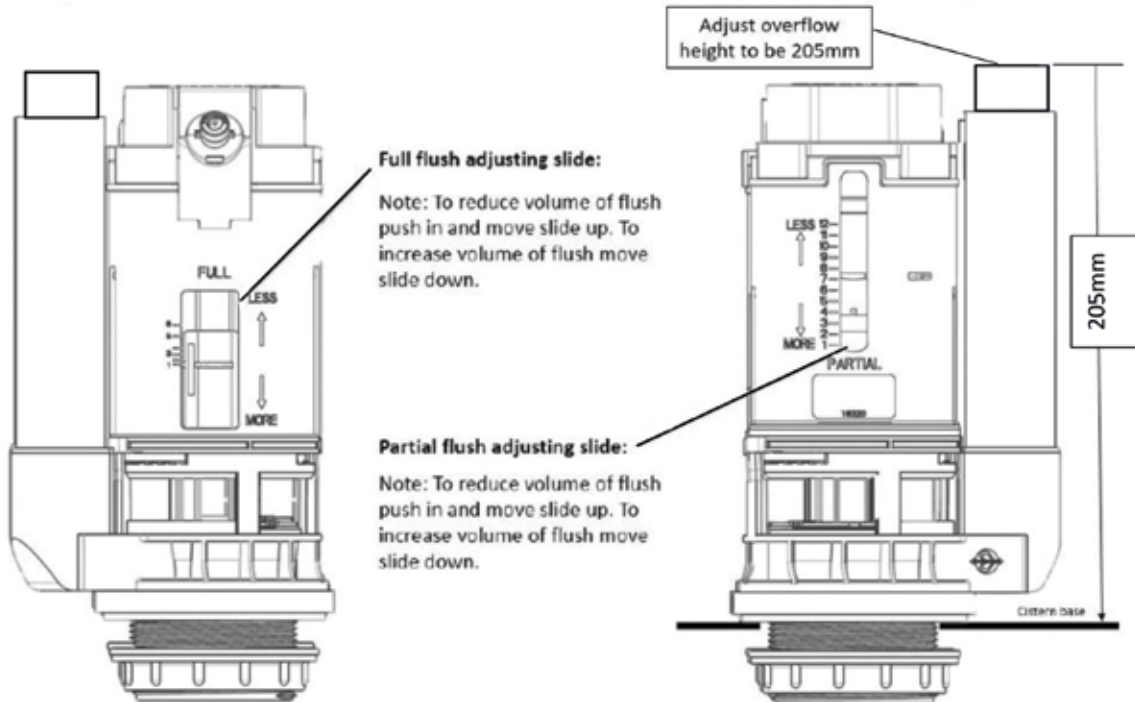
Special Instructions for reduced flush volume

Setting the Flush valve for a 4.5 litre full flush and 3 litre partial flush.

4.5&3L 4&2.6L
173mm

This cistern's flushing capacity can be reduced by following the instructions below. Firstly, set the inlet valve to achieve the lower 173mm waterline (water level marks are located on the back internal wall of the Cistern).

Adjust full flush, partial flush and overflow height as shown below:



5 & 3L Flush		
Setting	Water Level (mm)	Overflow (mm)
FF #6		225
PF #11	198	(4 Notches)

4.5 & 3L Flush		
Setting	Water Level (mm)	Overflow (mm)
FF #3		205
PF #5	173	(0 Notches)

4 & 2.6L Flush		
Setting	Water Level (mm)	Overflow (mm)
FF #5		205
PF #4	173	(0 Notches)

Maintenance - 6000 Series Airgap

TO GET THE BEST RESULTS FROM YOUR VALVE, PLEASE READ THESE INSTRUCTIONS CAREFULLY.

IMPORTANT: ALWAYS CLEAR ANY DEBRIS FROM WATER LINE TO COMPLETE INSTALLATION

Cleaning

The 6000 series Airgap is fitted with a filter which may need cleaning occasionally to ensure that optimum waterflow is maintained. The filter is essential for correct functioning.

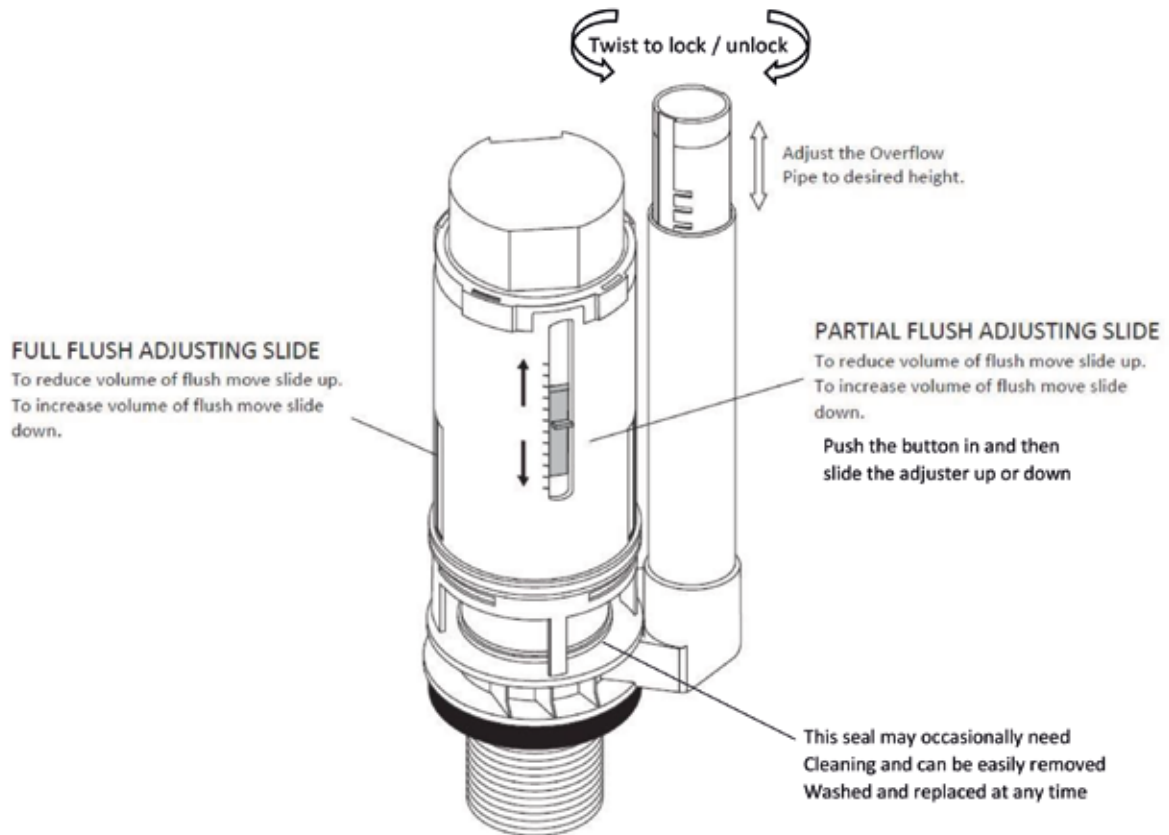
The procedure for cleaning the valve is as follows:

1. Turn off water supply.
2. Disconnect water supply from threaded tail.
3. Remove the filter/restrictor from threaded tail.
4. Clean the filter/restrictor by washing in water and ensure all grit and debris is removed.
5. Re-insert the filter/restrictor into tail and re-connect water supply. Turn on water.

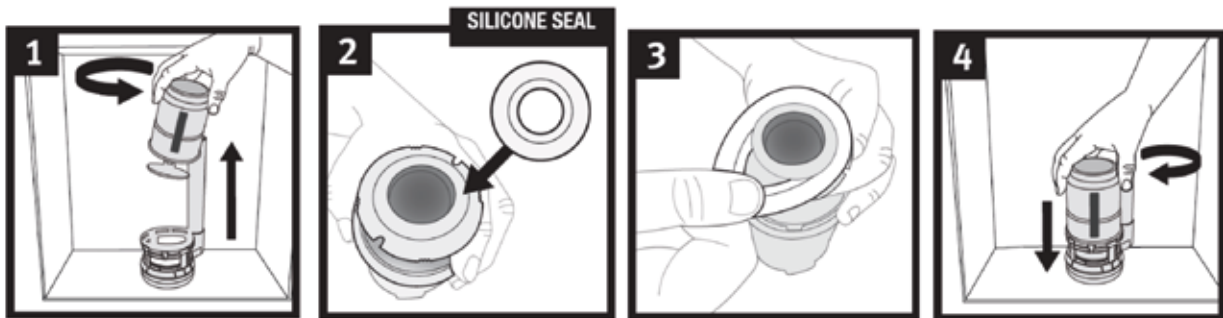
Fault Finding (Failure to Operate)

Possible Cause	Possible Solution
Debris around diaphragm.	Isolate water supply. Remove cap (1/8 turn counterclockwise). Remove diaphragm and clean in water or replace the diaphragm.
Insufficient water supply flow/pressure.	Open isolation valves fully, inspect system & pipework.
Cap not tightened.	Ensure cap is fully tightened clockwise against the stop.
Valve assembly is jammed.	Ensure float adjustment screw and attached components are free to move vertically.
Locking sleeve is 'up' (bottom entry only).	Ensure float chamber and locking sleeve is 'down' (locked position).
Flow controller and filter is blocked.	Isolate and disconnect from water supply. Remove flow controller and filter from threaded shank to clean.

Flush Valve Maintenance – 550 Valve



Replacing silicone seal



GUARANTEE:

This Fluidmaster product is guaranteed to be free from defective materials and workmanship for a period of one year. Units returned under guarantee to Fluidmaster UK will be replaced without charge. Always use quality Fluidmaster repair parts when maintaining your Fluidmaster products. Fluidmaster shall not be responsible or liable for any damages caused by products used in Fluidmaster valves that were not manufactured by Fluidmaster, Inc.

WARNING:

Fluidmaster, Inc. shall not be liable for incidental or consequential damages, including costs of installation, water damage, personal injury or for any damages resulting from abuse or misuse of the product, from overtightening or from failure to install or maintain this plumbing product in accordance with the written instructions, including use of non-Fluidmaster parts. Do not use in-tank drop-in toilet bowl cleaners containing bleach or chlorine. Use of such products will result in damage to tank components and may cause flooding and property damage. Use of such products will void this warranty.

Fluidmaster UK pursue a policy of continuing improvement in design and performance of our products. The right is therefore reserved to vary specification without notice, meaning some illustrations may not reflect items exactly.

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