

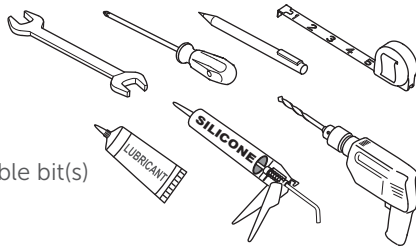
# Installation Instructions



## GENERAL INFORMATION

### Tools/Materials Required (not supplied)

- Spanners
- Screwdriver
- Pencil or Marker Pen
- Measuring Tape
- Lubricant
- Silicone
- Power Drill and suitable bit(s)



### Parts Required (not supplied)

Brass Screws and Fixing Plugs to secure the cistern to the wall

### Operating Water Pressure For Inlet Valve

0.1 Bar - 12.0 Bar

### Before You Start

Check the pack and make sure you have all the parts listed. If not, contact the vendor who will be able to help you. When you are ready to start, make sure that you have the right tools to hand, plenty of space and a clean area for assembly.



### WARNING

Do not use or drop any chlorine or chemical related components into the cistern or WC.

Use of such products will :

- (a) Result in damage to tank components, and may cause flood and property damage.
- (b) Void warranty.

### Important Notes

Use of the flow restrictor is required if the water pressure exceeds 1.4 Bar (20 p.s.i. or 14 metre head if tank fed).

Take care to avoid cross-threading. Do not overtighten back-nuts. Care should be taken when drilling walls and floors to avoid any sunken wires or pipes.

Servicing valve: The Water Regulations have a requirement to fit a servicing valve adjacent to the cistern, (not supplied).

Do not overtighten nuts or tank / bowl may crack

## PARTS SUPPLIED

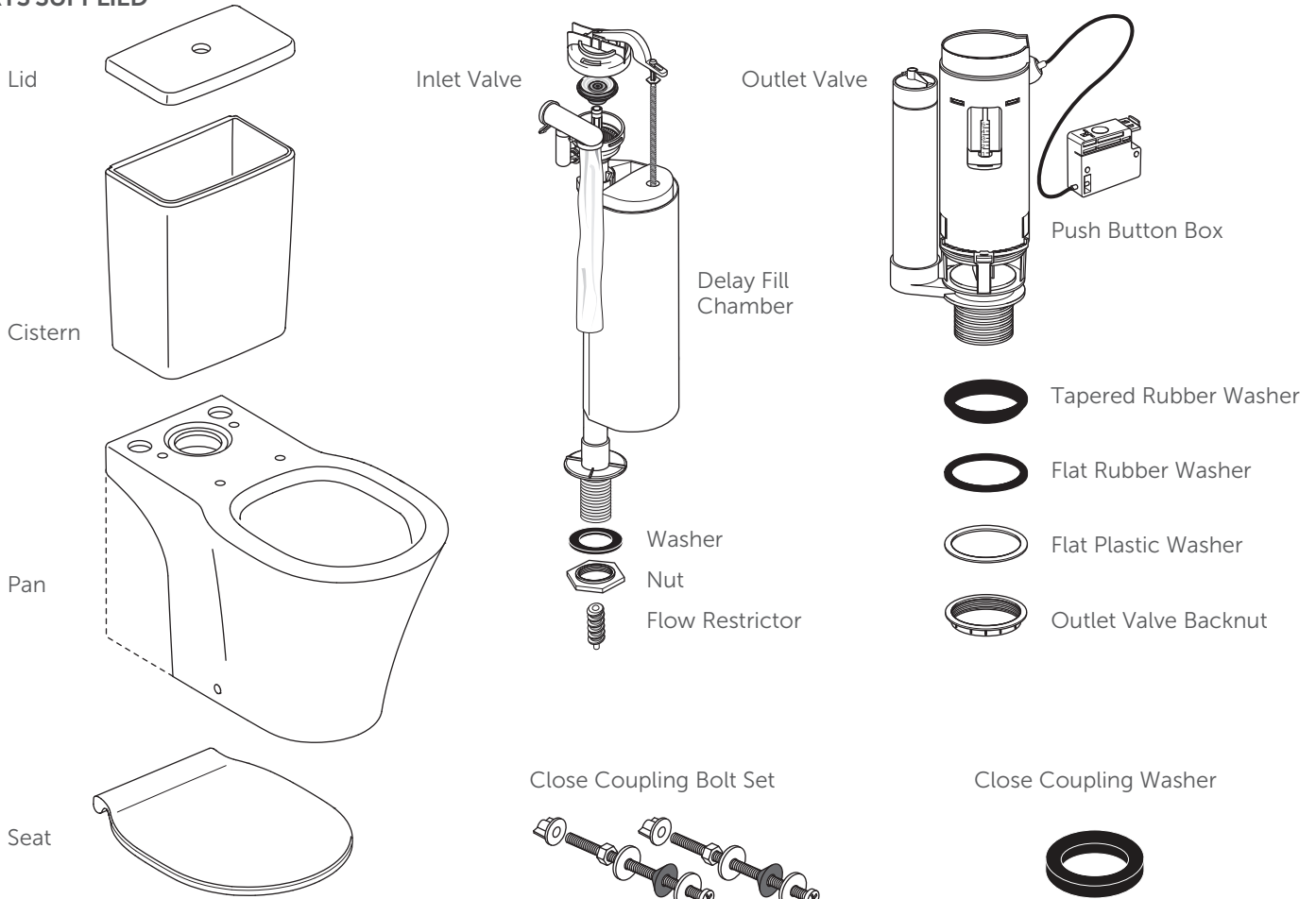


Illustration may not reflect items as supplied.

## INSTALLATION

Fixing bolts and valves are factory fitted (**fig 1**).

Check all joints to ensure they are sound and watertight

- stainless steel nuts on fixing bolts (**fig 2**)
  - inlet and outlet valve nuts, checking that the valves are not in contact with each other or the cistern walls.
- See inlet valve section for adjustment and fitting of filter and flow restrictor instructions.

See outlet valve section to check flush volume and overflow settings.

Install the Seat (see instruction supplied with seat).

Place the WC in the required position.

With cistern lid removed, mark the position of the screw hole positions in the rear of the cistern. Mark the outline of the closet bowl on the floor. Mark on the floor, at both sides of the closet bowl the position of the screw holes in the closet foot.

Remove the WC away from its location and drill and plug the positions marked on the wall. For the closet, mark the position for the two fixing screws Y+25mm in from the line drawn around the closet, drill, plug and fit brackets to floor.

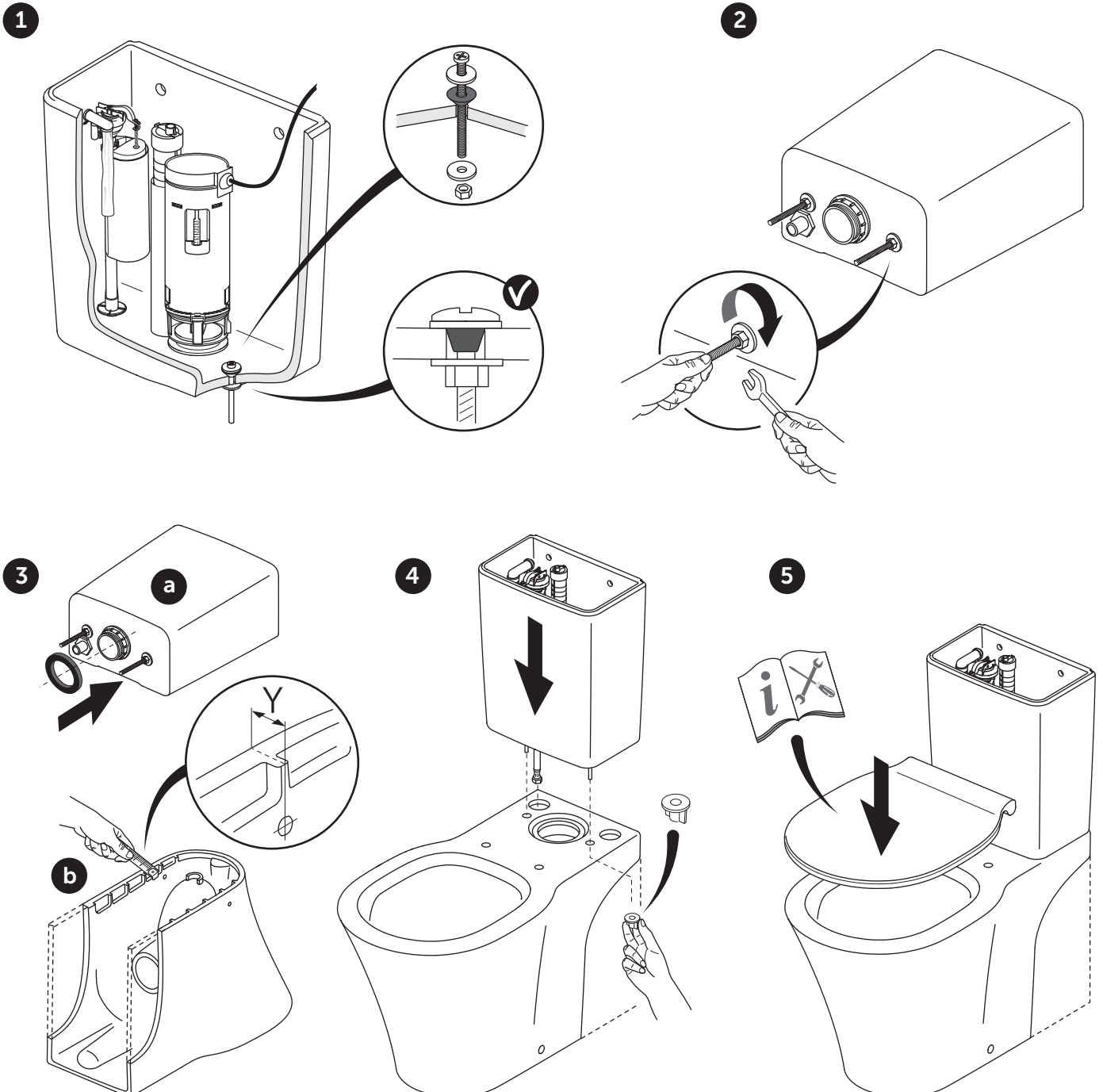
Replace the WC in position, connecting waste outlet (not supplied) and secure to the wall and floor, wall screws (not supplied).

Fit the push button into the cistern lid and secure with nut. Push and hold button box locking slide. Insert button into button box and release to locking slide to lock in position, (**fig 10**).

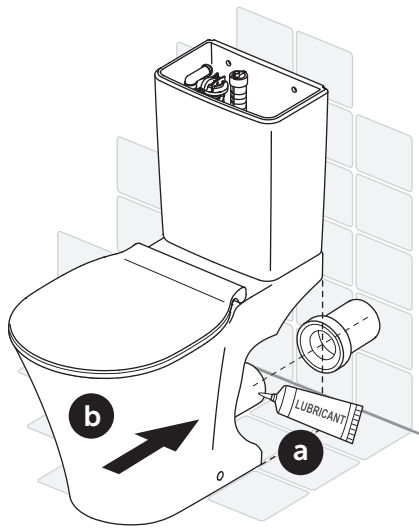
Ensure push button cable is not kinked or trapped and does not interfere with working components.

Fit cistern lid.

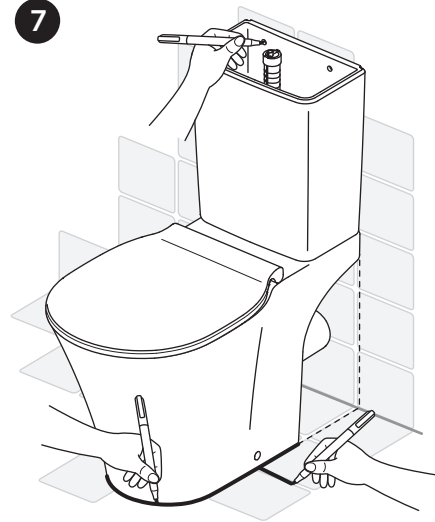
Turn water on and check all connections for leaks.



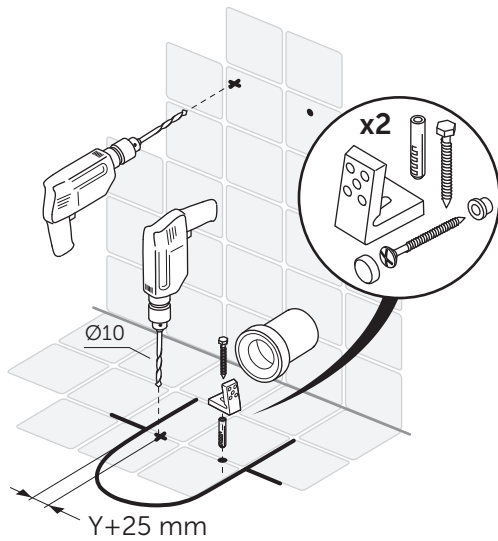
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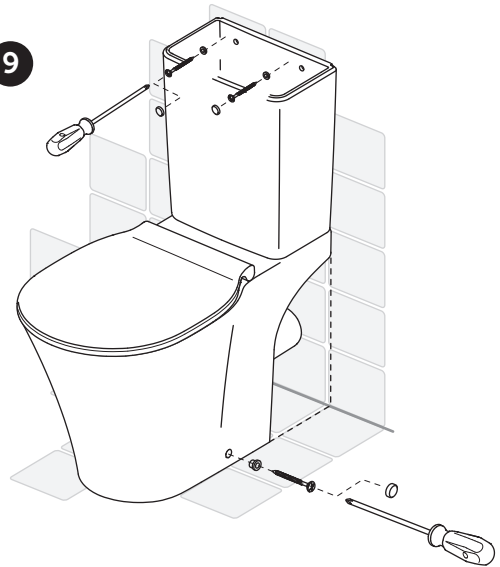
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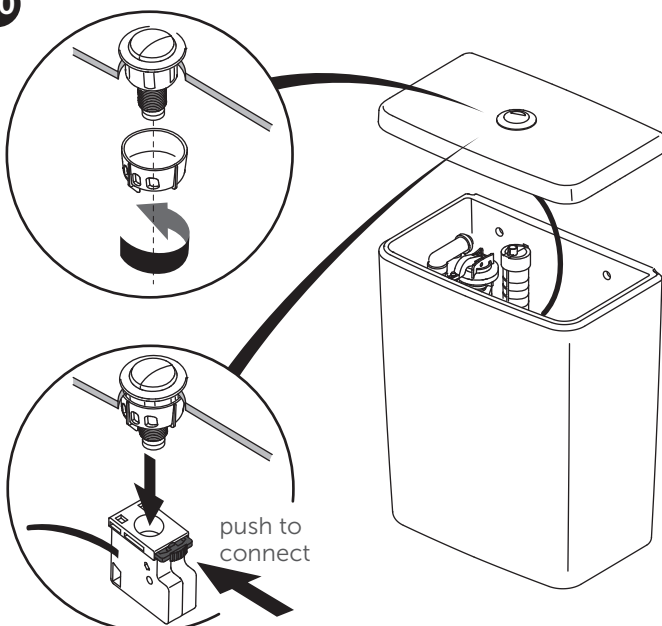
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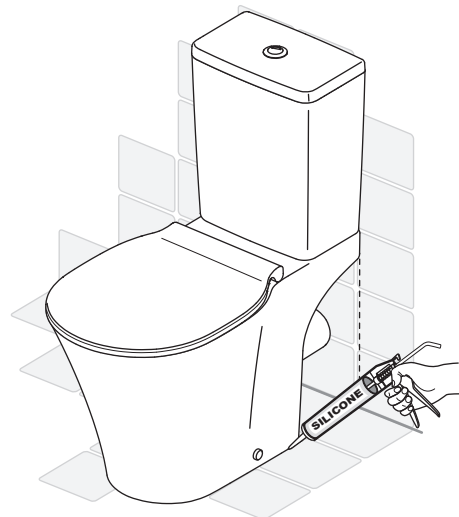
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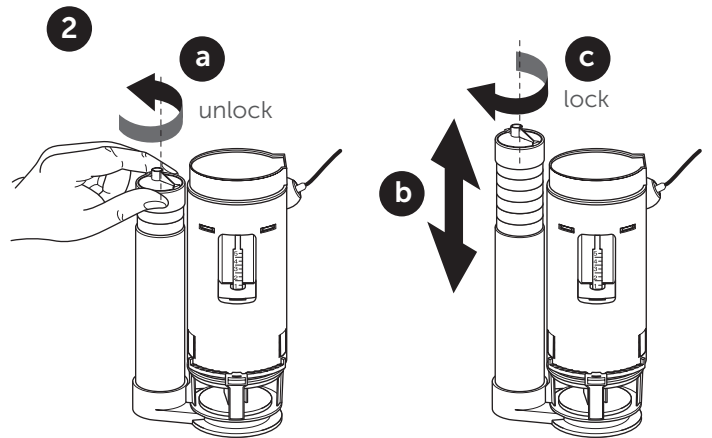
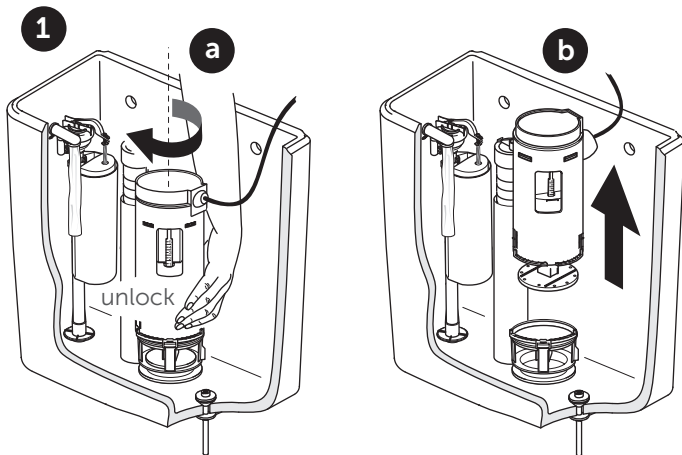
## OUTLET VALVE SETTINGS

If installed, turn outlet valve body anticlockwise and lift, parting it from outlet valve seat.

Adjust valve settings to chart below by moving adjusters up or down.

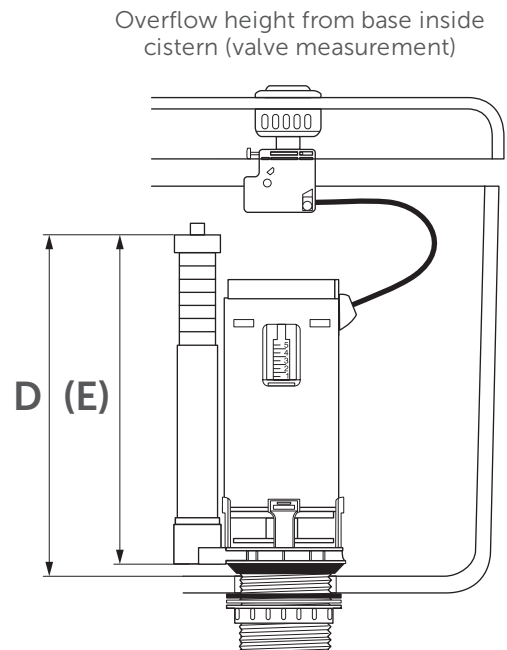
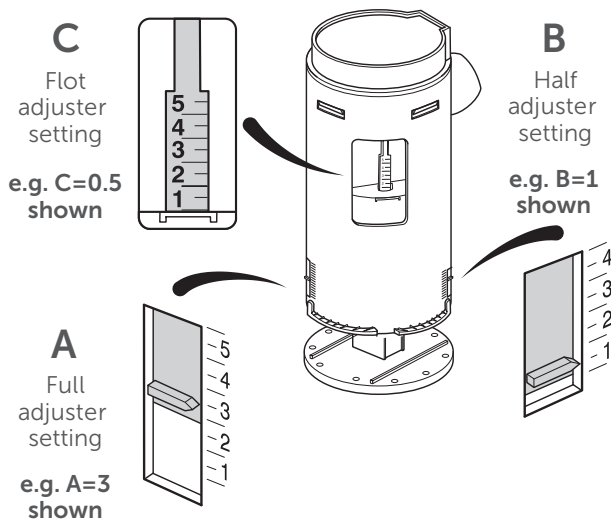
Adjust overflow pipe height, see chart for setting dimension. When set, twist to lock in position.

N.B. Minimum setting does not require locking. Refit valve.



### IMPORTANT NOTE

Not all wc pans are designed to flush at 4/2,6 litre. Check pan performance details before setting valve at these settings.



Cistern Type	Dual flush volumes	Full adjuster setting	Half adjuster setting	Flot adjuster setting	Overflow height from base inside cistern (valve measurement)
		A	B	C	D (E), mm
Concept Air Cube	6/4 Litre	1	0=closed	5=top	267 (257)
	4/2,6 Litre	3	0=closed	2.5	222 (212) minimum setting
Concept Air Arc	6/4 Litre	1	0=closed	5=top	267 (257)
	4/2,6 Litre	3	0=closed	3	222 (212) minimum setting
Tesi / Mavone	4/2,6 Litre	0=closed	0=closed	3	222 (212) minimum setting
Isarca	6/4 Litre	1	0=closed	5=top	267 (257)
	4/2,6 Litre	3	0=closed	3,5	222 (212) minimum setting
Contour 21 / Schools / Splash	6/4 Litre	3	1,5	1	227 (217)
	4/2,6 Litre	3	3,5	2	227 (217)

## INLET VALVE

Please read these instructions carefully before installation and store safely for future reference.

### GENERAL NOTES

Before fitting any valve the supply pipe should be flushed clear. Use of the flow restrictor is required if the water pressure exceeds 1.4 Bar (20 p.s.i. or 14 metre head if tank fed). Univalve maximum working pressure 12.5 Bar, minimum working pressure 0.1 Bar. Take care to avoid cross threading. Hand tighten nuts, then give 1/8 turn by spanner. Do not overtighten. The valve is fully tested before leaving the factory, no dismantling is necessary.

### Chemicals & paints

Do not allow the Univalve to come into contact with jointing compounds, cellulose based paints, paint thinners or strippers, solder flux, acid based descalers or aggressive cleaning products including those below pH4, high in hypochlorite (e.g. bleach) or containing hydrogen peroxide.

## OPERATION

The Univalve is an equilibrium float valve for use in wc cisterns. It operates as follows:

When the cistern is flushed the float arm (1) drops allowing water to escape through the bleed hole in the cap (2). This reduces the water pressure on the front of the diaphragm (3) allowing the supply pressure to push the diaphragm away from the seating (4) and opening the float valve.

As the cistern fills the rubber billet (5) in the end of the float arm shuts off the bleed hole in the cap, allowing pressure to build in the front of the chamber (6). When this pressure is equal to the supply pressure the diaphragm is pushed onto the inlet and valve closes.

### CAUSES OF MALFUNCTION

#### Valve stays open because:

The rubber billet (5) in end of the float arm (1) is damaged, or missing, allowing water to escape through the bleed hole. This prevents the 'closing' pressure build up sufficiently on the front of the diaphragm to close the valve.

The metering valve (7) in the centre of the diaphragm is blocked or damaged. This prevents the passage of water through the diaphragm, not allowing pressure to build on the front of the diaphragm.

#### Valve stays closed/or is sluggish because:

The bleed hole in the cap (2) is blocked or restricted. This prevents water from escaping quickly enough from the front chamber.

The metering valve in the diaphragm (7) is damaged and allows water to pass through quicker than it escapes with the same effect as (d).

The filter (9) has become clogged and has reduced the supply pressure below the operating level. For removal instructions see under 'maintenance'.

The restrictor has been fitted with water pressure below 1.4 bar (20psi or 14 metre head if tank fed). Also note that when at extreme high pressure, the removal of the restrictor can cause continuous siphoning.

### How to re-fit your Univalve

Turn off water.

Flush cistern. For side inlet depress float to drain supply pipe. For bottom inlet sponge out residual water. Disconnect and remove existing inlet valve.

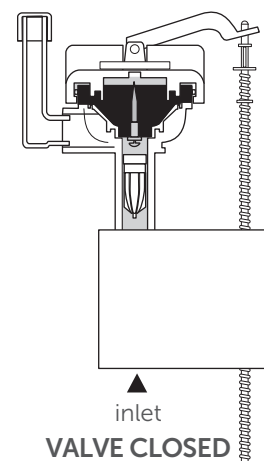
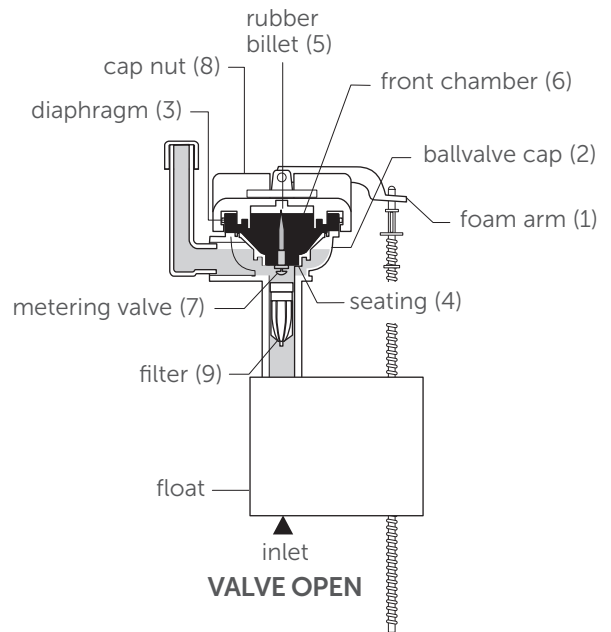
Fit Univalve using backnut(s) provided and ensure that spigot(s) are used to centralise the tail in the hole. Ensure that rubber sealing washer is in position.

Connect to the supply pipe.

Check that the float is not impeding other fittings and that the Whisperflo delivery tube, (where supplied) is pointing downwards and free from obstruction and outside of the delay fill chamber, (where supplied).

Turn on water and check for any leaks.

Set water level by adjusting the float. Twist the float stem to raise or lower as required.



## MAINTENANCE

Valves should be checked and cleaned periodically. The Univalve is fitted with a filter to prevent foreign bodies from impeding the flow. The filter may require occasional cleaning.

Turn off water.

Turn the cap 1/8th turn anti-clockwise and remove the cap and diaphragm.

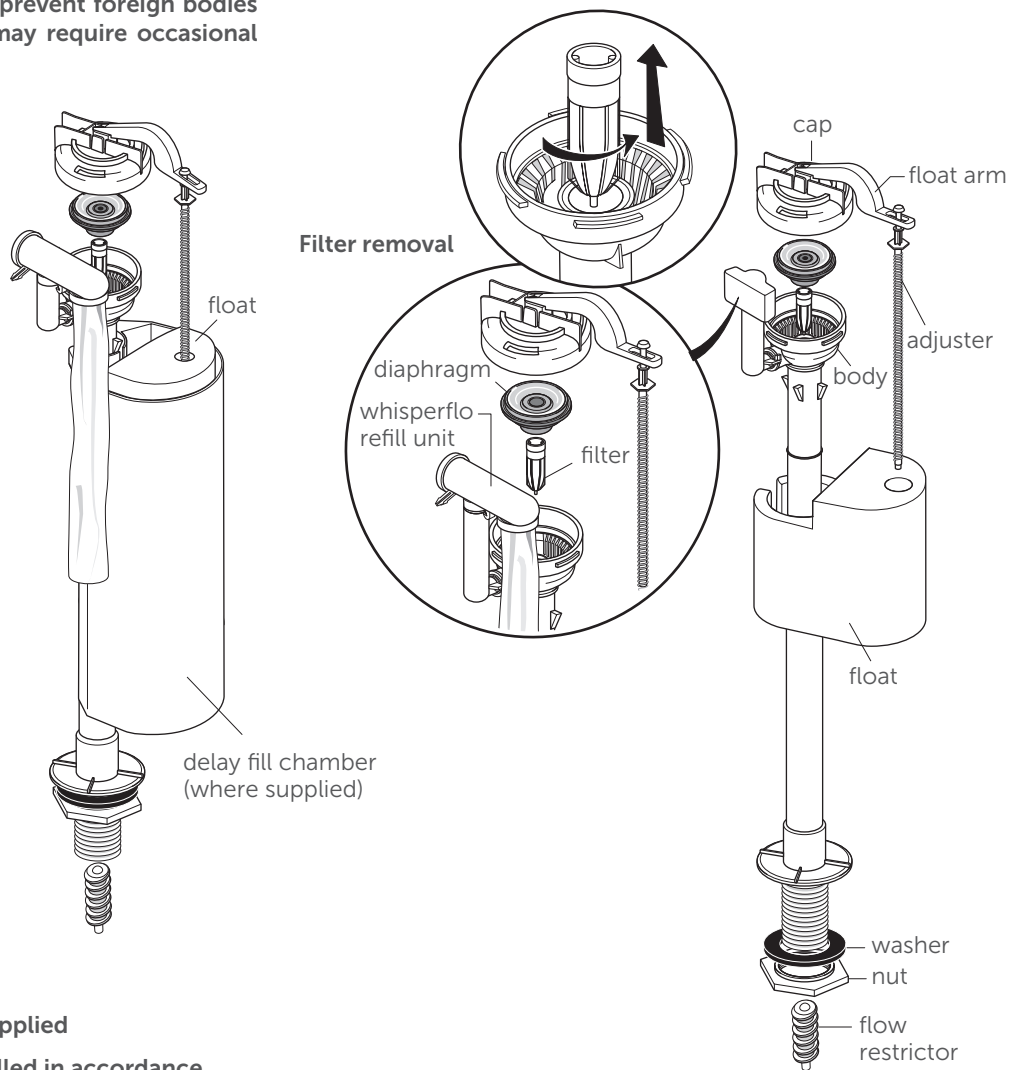
Carefully remove filter from the valve body. Use long nose pliers to grip the ribs inside the filter, turn the filter 1/4 turn anti-clockwise and pull out, (see insert).

Clean the filter. Wash away any foreign matter and check for damage.

Flush out and replace filter. The bayonets on the filter fit into slots on the body. Push the filter fully home and rotate 1/4 turn clockwise to lock in position.

Re-assemble diaphragm and cap.

Turn on water and check for leaks and correct water line.



**Illustration may not reflect item as supplied**

**All cistern components must be installed in accordance with UK water regulations. If in doubt a suitably qualified professional**

## CUSTOMER CARE HELPLINE

# 0870 1296085

FAX LINE 01482 499611  
email: [customer care@idealstandard.com](mailto:customer care@idealstandard.com)

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