CLOSE COUPLED CLOSET SUITES

Installation Instructions

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GENERAL INFORMATION

The closet bowl should be connected to the soil pipe by a purpose made connector. The WC suite is designed to meet current Water Regulations.

WARNING: Do not bed closet bowl to the floor with cement mortar otherwise the closet foot could split after installation.

CISTERN COMPONENTS if these are pre-fitted, check all joints to ensure they are watertight.

SERVICING VALVES The Water Regulations have a requirement to fit a servicing valve adjacent to the cistern. This is to enable the water supply to be shut off, if required without shutting off the supply to other appliances.

CLOSET SEAT It is recommended that fitting the closet seat be the last operation in the bathroom. This will minimise the risk of scratching the seat when tiling etc.

ALL JOINTS needing to be watertight are supplied with rubber gaskets. Waterproof sealant **MUST NOT BE USED** to seal, as this will have a detrimental effect on all submerged rubber seals.

INSTALLATION

Diagrams below are pictorial only and outlines of items shown may not represent the actual pieces supplied.



Typical assemblies



Preparing cistern for fitting to closet bowl Using close coupling plate, Figs. 1a & 1b.

Preparing cistern for fitting to closet bowl Using thro' bolt fixing, Figs. 1c, 1d & 1e.





Lower cistern onto closet bowl, and

apply wing nuts to bolts and tighten by hand, Fig. 2.



Locate closet suite to wall, figure 3. With cistern lid removed mark cistern screw hole positions on wall. Remove closet suite, drill and plug wall.



Reposition closet suite, figure 4, to wall, make connection to soil system and screw closet bowl to floor and cistern to wall, (screws not supplied).



For closet suites supplied with their own individual floor fixation kit. Place the suite up to the wall in the required position and 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 closet bowl, draw a line on the floor joining the marks which indicate the screw hole positions. Mark the position for the two fixing screws 40mm in from the line drawn around the closet, drill, plug and fit brackets to foot, figure 5.



Connect float operated fill valve to water supply pipework, adjust fill valve to give correct water level as marked on cistern.

Fit outlet valve push button assembly (where applicable) to cistern lid. Refer to separate push button instructions.

Flush the closet suite and check connections for leaks.

An operating lever (where applicable) is supplied to suit the closet suite. Follow appropriate instructions below. With all operating lever assemblies, ensure that the lever moves freely.

Front Operating Lever (Fig. 6a)



Insert the lever with plated shaped washer, into the hole in the cistern with the handle to the right. Place the internal shaped washer onto the spindle, fit the back nut but do not fully tighten. Connect the lower hole of the adjustable operating lifter arm to the 'C' link. Connect the yoke to the lever spindle. Slide the arm through the yoke. Adjust the length of the arm so it just clears the top of the siphon when the lever assembly is operated. Insert the plastic pin through the appropriate hole in the yoke and arm. Tighten the lever set screw. Adjust the shaped washer for correct fit and tighten the back nut.

Fig 6b shows fixed lift arm variant of above.



Front Operating Lever (Figs. 6c, 6d & 6e)

Insert operating lever with threaded sleeve into hole in cistern and secure with plastic nut. Connect lifter arm to siphon 'C' link and place on lever spindle/shaft, line up lifter arm with centre line of siphon and tighten screw.







Side Operating Lever (Fig. 7a)

Fit fulcrum bush to cistern using PVC washer, securing plate, screws, washers and nuts supplied. Fit operating lever partly into fulcrum bush and turn on its side to connect the siphon 'C' link. Return operating lever to horizontal position and fully insert into fulcrum bush.

Side Operating Lever (Fig. 7c)

Fit operating lever into cistern, turn on its side

to connect siphon 'C' link. Return to horizontal position and tighten plastic nut.

Side Operating Lever (Fig. 7d)

Insert lever with threaded sleeve into hole in cistern. Fit rubber washer then plastic washer and secure with backnut. Connect lifter arm to siphon 'C' link, slide onto spindle and secure with screw.

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QUIET BALLVALVE

INSTALLATION

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). 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.

How to re-fit your Quiet Ballvalve

1. Turn off water.

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

- **3.** Fit Quiet Ballvalve 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.
- **3a.** In the case of in line valve, locate into bracket and connect to braided hose.
- 4. Connect to the supply pipe.
- **5.** Check that the float is not impeding other fittings and that the Whisperflo delivery tube is pointing downwards and free from obstruction.
- 6. Turn on water and check for any leaks.
- **7.** Set water level by adjusting the float stem. Twist the stem so that notches are in line with the slot, then raise or lower as required. Twist back to lock.

OPERATION

The Quiet Ballvalve is an equilibrium ballvalve 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 ballvalve 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 ballvalve.

As the cistern fills the rubber billet **(5)** in the end of the float arm shuts off the bleed hole in the ballvalve 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 ballvalve closes.

CAUSES OF MALFUNCTION

Ballvalve stays open because:

- a) 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 ballvalve.
- **b)** The body coupling nut **(8)** is not tight enough. Again water is escaping with the same result as (a).
- c) 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.

Ballvalve stays closed/or is sluggish because:

- **d)** The bleed hole in the ballvalve cap **(2)** is blocked ir restricted. This prevents water from escaping quickly enough from the front chamber.
- e) 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).
- f) The filter (9) has become clogged and has reduced the supply pressure below the operating level. For removal instructions see under 'maintenance'.



g) The restrictor (10) has not been removed for low pressure operation. Also note that when at extreme high pressure, the removal of the restrictor (10) can cause continuous siphoning.

MAINTENANCE

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

BOTTOM SUPPLY

- 1. Turn off water.
- 2. Unscrew stop end cap and withdraw filter housing. Remove filter and wash away any foreign matter and check for damage. Flush out supply pipe and re-assemble, ensuring that seating washer and 'O' ring are in position. Locate peg in slot and tighten stop end cap. Where space will not allow the stop end cap and filter housing to be withdrawn, remove the body complete from standpipe and follow previous instructions. Re-fit assembly to standpipe.
- 3. Turn on water and check for leaks and correct water line.

IN LINE SUPPLY & SIDE SUPPLY

whisperflo refill unit

diaphragr

6

support washer

float

sealing washer back nut

flow restrictor

body coupling nut

delivery tube

ballvalve cap

float arm

- 1. Turn off water.
- 2. Unscrew cap nut and remove the body complete, taking care not to lose the sealing washer.
- 3. Carefully remove filter from the tail, wash away any foreign matter and check for damage. Flush out and replace filter.
- 4. Remove body assembly, ensuring sealing washer is in place.
- 5. Turn on water and check for leaks and correct water line.



SIDE SUPPLY

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

float

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BOTTOM SUPPLY

filter seating

90

'O' ring

ballvalve

'O' ring

circlip

cap nut

stand

pipe

body

-'0' ring

filter housing



PLEASE READ CAREFULLY

IMPORTANT NOTE:

Water Supply Regulations do not permit the installation of cisterns with a flushing capacity greater than 6 litres, unless they are used to replace existing 7.5 litre and 9 litre cisterns. For new installations and where pan and cistern are replaced at the same time, the new WC suite must operate at 6 litre maximum flushing volume.

INSTRUCTIONS - Before fitting siphon

This cistern is pre-set to flush 6 litre max. To convert to a larger volume flush, screw the plug provided into the hole located in the side of the siphon bell. Take care not to overtighten the plug. Once fitted install siphon and other parts into the cistern



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FRONT OPERATING CISTERN LEVERS



Insert operating lever with threaded sleeve into hole in cistern and secure with nut. Connect lifter arm to siphon 'C' link, (not shown) and place on lever spindle/shaft, line up lifter arm with centre line of siphon and tighten screw.

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

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