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).

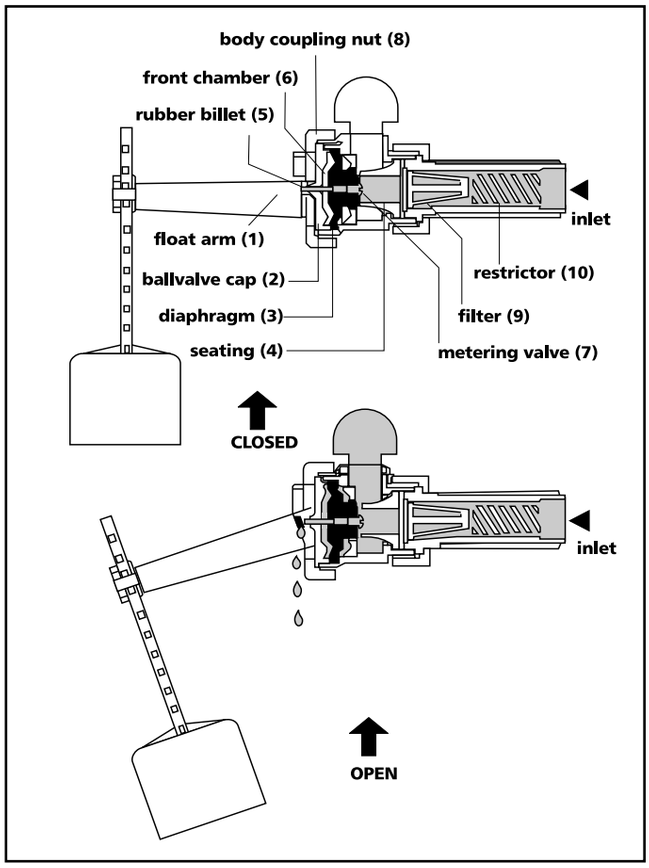
c) The metering valve **(7)** in the centre of the diaphragm is blocked or damaged. This prevents the passage of water through the diaphragm, not allowing pressure to build on the front of the diaphragm.

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

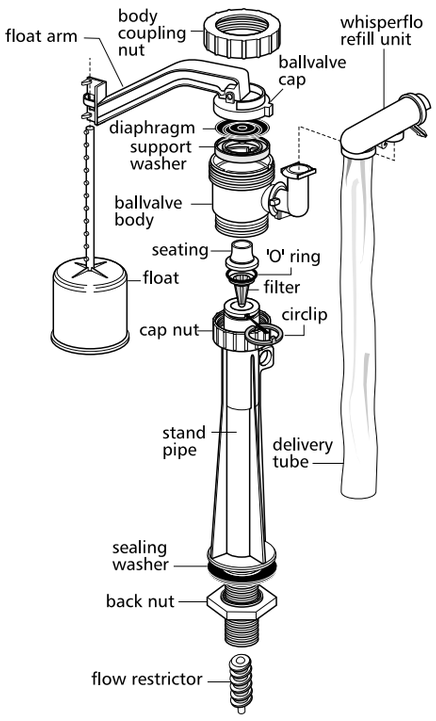
Ballvalves should be checked and cleaned periodically. The Quiet Ballvalve is fitted with a filter to prevent foreign bodies from impeding the flow.The filter may require occasional cleaning.

BOTTOM SUPPLY

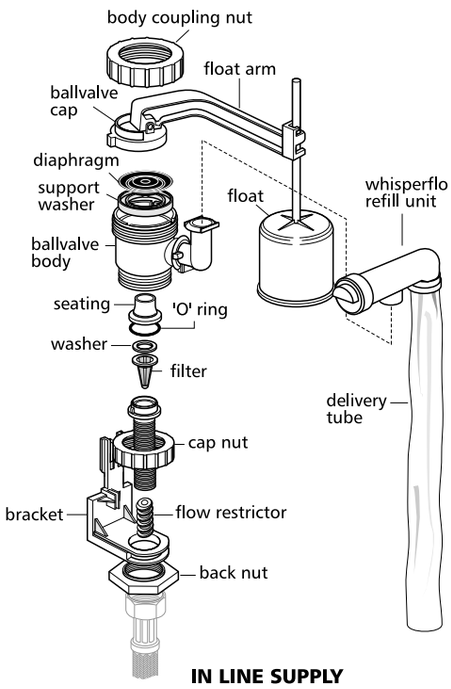
1. Turn off water.
2. Unscrew stop end cap and withdraw filter housing. Remove filter and wash away any foreign matter and check for damage. Flush out supply pipe and re-assemble, ensuring that seating washer and 'O' ring are in position. Locate peg in slot and tighten stop end cap. Where space will 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 stand-pipe.
3. Turn on water and check for leaks and correct water line.

IN LINE SUPPLY & SIDE SUPPLY

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.

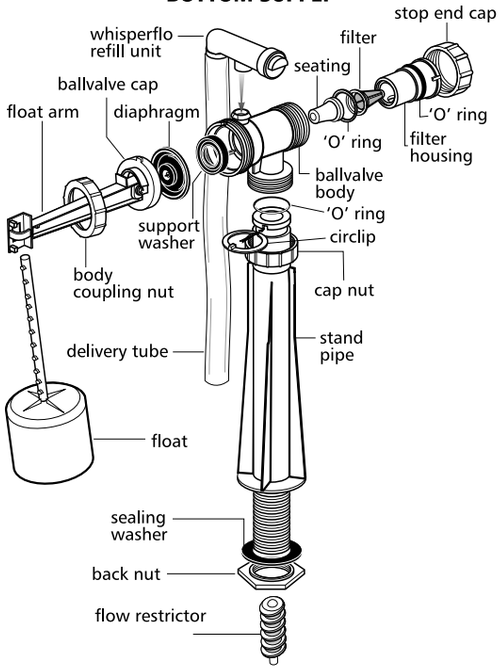


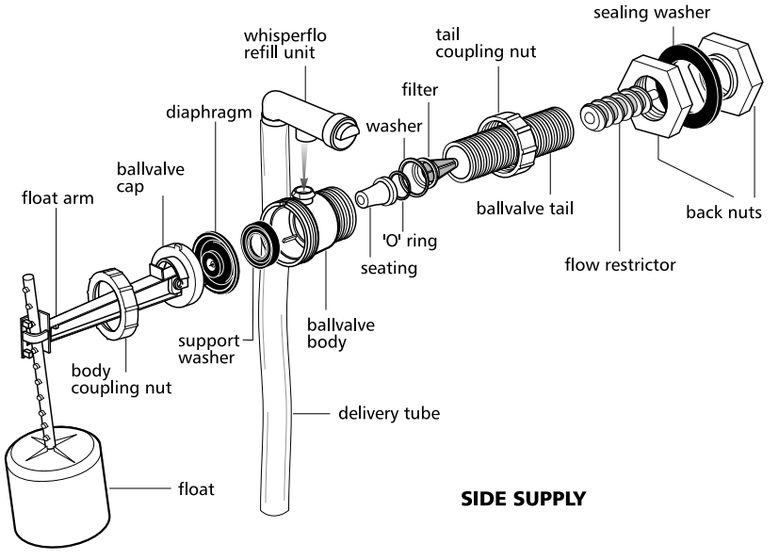
BOTTOM IN LINE SUPPLY



IN LINE SUPPLY

BOTTOM SUPPLY





SIDE SUPPLY

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

We pursue a policy of continuing improvement in design and performance of our products.
The right is, therefore, reserved to vary specifications without notice.