

## REPLACEMENT OF MEPA PNEUMATIC DROP VALVE

Firstly this is a list of procedures compiled by me following various live experiences and is in no way an official document from Mepa. I hope it helps.

### WHAT CAN GO WRONG

Your first indication of a problem will be.

- 1). The toilet wont flush.
- 2). Water will be overflowing down the pan, or water wont stop after flushing.

1). Its very unusual that nothing will happen when you hit the flush button. This a pneumatic system and operates by forcing air down a series of pipes to operate bellows in the cistern drop valve. There is a set of bellows for large and small flushing modes and the feeds are totally separate. You may well experience one button working and the other not. It is rare that the flush plate pistons that are operated by the flush plate fail but they just may be the reason.

Remove the flush plate by sliding upwards and unclipping. This will reveal the flushing pistons. There are 2 of them located on a white plastic plate held in place by 2 screws. Undo the screws and remove the flushing plate pistons. Attached at the rear of the pistons are two air tubes. Remove them from the pistons and remove the plate. You can test these pistons by simply blocking the air exit tube with your finger and operating the piston. If there is no air pressure present then that will be the problem and you will need to purchase a new pneumatic plate and replace it.

In most cases however it will be the drop valve itself faulty. The pipes may be blocked or indeed split but unlikely.

Lastly of course the reason for no flushing may simply be a faulty fill valve. Thus there is no water in the cistern tank.

2). This is the most likely cause. Water will be overflowing down the pan due many reasons some listed below.:-

- a). Faulty filling valve. (not turning off)
- b). Faulty drop valve or more to the point faulty bellows in drop valve.

If this is the case change the drop valve. Sorry you cannot replace the bellows, Easy to do but you can't get them. I have tried. It would appear that they expand with age and no longer freely move within the chamber.

### **Changing the drop valve.**

- 1). Remove the chrome flush plate by sliding upwards from the bottom and pulling forward at the top.
- 2). Undo the 2 screws holding in place the piston plate and pull forward. Disconnect the 2 pipes and remove.
- 3). This will reveal the opening to the mouth of the cistern tank. Yes all the parts will exit through this hole.
- 4). Turn of the water supply at the inlet valve located top left part no 3 on diagram.
- 5). Unclip the fill valve from holder part 9.1 and undo and remove the fill valve hose from the fill valve.
- 6). Remove part 9 by pushing forward and lifting upwards.
- 7). Remove from the cistern the complete fill valve. It will come out.
- 8).The drop valve is held in place by the clip part no 5. This is located behind the drop valve on the back of the cistern. Push the clip downwards, pull forward and remove.
- 9). Lift out the drop valve. Hard to explain how to do this but be sure it does come out.
- 10). Replace the drop valve and refit the retaining clip 5.
- 11). Insert the fill valve and attach the fill hose to the valve.
- 12). Relocate clip 9, after removing the air pipe junction post on its left hand side ( a new post comes with the new drop valve) in the 2 + shaped holes at the back of the cistern and clip in position at the front edge of the cistern.
- 13). Relocate the fill valve into clip 9.1 located on clip 9.
- 14). Locate the air pipe junction post attached to the 2 pipes leaving the drop valve into clip 9 left hand side.
- 15). Reconnect the 2 air pipes from the flush plate pistons to the pipe junction box on clip 9. Turn on water at valve 3.
- 16). Before fitting the flush piston control plate test that all is working.
- 17). Replace the flush plate piston plate and secure in place with the 2 screws.

18). Finally replace the chrome flush plate by locating at the bottom lifting upwards, and clipping in position. Push downwards to hold in place.

Oh good luck  
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