**FLUIDMASTER® 400A FILL VALVE INSTALLATION INSTRUCTIONS**

**Preparation**

**Tools Needed**

- Rubber mallet
- Adjustable wrench
- Screwdriver
- Phillips screwdriver
- Pliers
- Metal snips
- Scissors
- 1/2" NIPPLE
- TOOLS

**Parts IN THIS KIT:**

- (1) Fill Valve
- (1) Shank Washer
- (1) Locknut
- (1) Refill Tube
- (1) Refill Clip

**Warranty**

Fluidmaster Inc. will provide, subject to the “Exclusions” section set forth below, all replacement parts free of charge, necessary to correct such defects. This “Limited Five Year Warranty” is null and void if this plumbing product has not been installed and maintained in accordance with all Universal Plumbing Code.

**Correct set up of refill tube and refill clip to overflow pipe**

1. **Remove Old Fill Valve**
   - Remove tank lid. Use pencil to mark water level of tank. Then follow steps A-C.
   - A. Turn off water supply (clockwise). Flush toilet and remove excess water from tank with sponge.
   - B. Remove water supply line coupling nut. Remove locknut from bottom of tank.
   - C. Remove fill valve from tank.

2. **Preparing the Fill Valve for Installation**

   **Fill Valve Assembly Parts**
   - (1) Refill Clip
   - (1) Refill Tube
   - (1) Shank Washer
   - (1) Locknut
   - (1) Threaded Shank
   - (1) Washer
   - (1) Shank Washer
   - (1) Fill Valve

**Installing New Fill Valve**

- Place fill valve in tank. Make sure lid will sit on top of tank without touching part of this plumbing product which proves to be defective in workmanship or materials under normal use for five years from the date of purchase. All overtighten nuts or tank/bowl may crack. Always use quality because it will not damage the components. **DO NOT USE**

**Preparation in Tank Level**

- Tank level should be set to CRITICAL LEVEL MARK / C.L. Mark (Fluidmaster recommends 1/2”).

3. **Adjusting Tank Water Level**

   With water turned on, set float cup to desired level, by turning water level adjustment screw. When adjusting float cup, flush tank first. Then make adjustment while tank is filling. To adjust tank water, turn adjustment screw clockwise to raise water level or counter clockwise to lower water level. Once adjusted, flush toilet and check new level. Repeat if necessary. **HINT:** When you twist adjustment screw 8 times - float moves 1/2”.

4. **Attach Water Supply Connector**

   Inspect water supply connector. Replace if it is worn or over 5 years old to prevent flooding and property damage. **DO NOT** attach water supply connector to fill valve. Turn coupling nut clockwise by hand until tight. **WARNING:** Do not shove refill tube down overflow pipe. This may cause significant water waste.

5. **Inspect Water Supply Connector**

   Inspect water supply connector. Replace if it is worn or over 5 years old to prevent flooding and property damage. Fluidmaster Click Seal® connector is recommended. A perfect seal every time without overtightening.

**Troubleshooting**

**IF FILL VALVE DOES NOT TURN ON, WILL NOT TURN OFF, OR WILL NOT REFILL THE TANK AFTER THE FLUSH**

- Remove top cap and check for debris. If you find debris, or float is weak, inspect lower section of fill valve for partial blockage. Partial blockage may be at shut off valve or in water supply line (See “REMOVING THE VALVE CAP ASSEMBLY & FLUSHING OUT DEBRIS”).
- If fill valve has been in use for some time and/or float cup does not drop when flushing tank, replace seal with a genuine Fluidmaster 242 seal (See “REPLACING SEAL”).

**IF FILL VALVE TURNS ON AND OFF BY ITSELF**

- This indicates the tank is losing water. The fill valve is refilling lost water. Clean flapper and drain seat. If weak continuous, change flapper or flush valve. Install Fluidmaster 502, 507AKR, 540AKR or 555C kit.

**IF WATER LEVEL IN BOWL IS TOO LOW**

- Make sure the refill tube is supplying water down overflow pipe.
- Water level in bowl may be too low. Raise water level to 1/2” below top of overflow pipe (See “ADJUSTING TANK WATER LEVEL”).
- You may have to lengthen the fill valve in order to increase the water level in tank (See “PREPARING THE FILL VALVE FOR INSTALLATION”).
- Flapper may be closing too soon. Give flapper chain approximately 1/2” of slack.

**Code Compliance**

Once fill valve is installed, ensure overflow pipe and water level of tank are correctly set.

1. THE TOP OF OVERFLOW PIPE (A) must be minimum of 1” below TANK LEVER HOLE (B).
2. WATER LEVEL (C) is set below top of Overflow Pipe (Fluidmaster recommends 1/2”).
3. THE CRITICAL LEVEL MARK / C.L. MARK (D) identified by C.L. on fill valve must be positioned 1” above top of overflow pipe. This is a requirement of the Universal Plumbing Code.

**Configuration**

Customer service is available Monday-Saturday 6:00 am - 6:00 pm PST.

Fluidmaster Customer Support

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Contact Fluidmaster for troubleshooting help or visit www.fluidmaster.com to find a Fluidmaster retailer in your area.