

## Fluidmaster 400A

# Fluidmaster 400A Anti-Siphon Universal Toilet Tank Fill Valve Instruction Manual

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## 1. INTRODUCTION

The Fluidmaster 400A Anti-Siphon Universal Toilet Tank Fill Valve is designed to replace old, inefficient, or noisy fill valves in most toilet tanks. This universal design ensures compatibility and provides a quiet, efficient fill. It features an anti-siphon design to prevent water contamination and is built for durability.

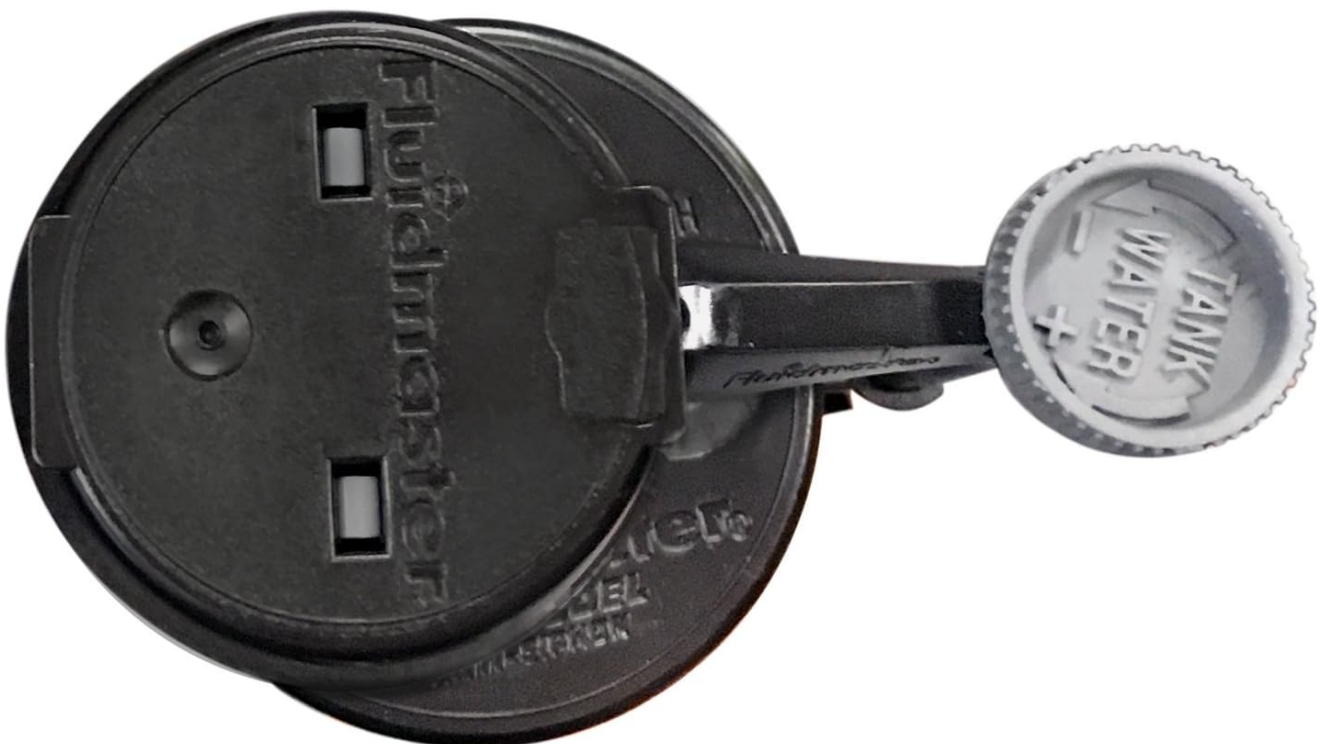


Image: The Fluidmaster 400A Anti-Siphon Universal Toilet Tank Fill Valve, showing its main components.

## 2. SETUP AND INSTALLATION

Follow these steps to properly install your Fluidmaster 400A fill valve. Ensure you have a towel and a bucket ready to manage any residual water.

### 2.1. Preparation

1. **Turn off Water Supply:** Locate the water supply valve at the base of your toilet and turn it clockwise until the water flow stops completely.
2. **Drain the Tank:** Flush the toilet to drain most of the water from the tank. Hold the flapper up to ensure maximum drainage.
3. **Remove Remaining Water:** Use a sponge or towel to soak up any remaining water in the tank. Place a towel or small bucket on the floor under the fill valve to catch any drips.
4. **Disconnect Water Line:** Unscrew the water line connector from the bottom of the old fill valve.
5. **Remove Old Fill Valve:** Loosen the locknut from the bottom of the old fill valve and remove the entire assembly from the tank.

### 2.2. New Fill Valve Adjustment and Installation

1. **Adjust Height:** Before installing, adjust the height of the new Fluidmaster 400A fill valve. The top of the fill valve cap should be approximately 3 inches above the top of the overflow pipe when installed. Twist the black shank of the fill valve to increase or decrease its height. One full turn adjusts the height by 1/2 inch.
2. **Install Gasket/Washer:** Ensure the rubber gasket/washer is properly seated on the threaded shank of the new fill valve.
3. **Insert Fill Valve:** Insert the new fill valve into the tank opening. Position the refill port to face the overflow pipe, ensuring no parts interfere with the flush lever arm or touch the tank walls.
4. **Hand-Tighten Locknut:** From underneath the tank, hand-tighten the new locknut onto the threaded shank of the fill valve. Do not overtighten.
5. **Connect Refill Tube:** Connect one end of the refill tube to the refill port on the fill valve. Attach the refill clip to the other end of the refill tube and clip it onto the overflow pipe. Trim the refill tube if necessary to ensure an easy bend without kinks.
6. **Reattach Water Line:** Reattach the water supply connector to the bottom of the new fill valve. Hand-tighten only.
7. **Turn on Water:** Slowly turn on the water supply valve. Check for any leaks around the connections.

### 2.3. Visual Aids for Installation



*Image: Internal view of a toilet tank, showing the Fluidmaster 400A fill valve and its connection to the overflow pipe.*





*Image: A detailed view of the Fluidmaster 400A fill valve, highlighting the float and adjustment screw.*

## 2.4. Installation Videos

### Fluidmaster 400A Universal Toilet Tank Fill Valve Tutorial

Your browser does not support the video tag.

*Video: A comprehensive tutorial demonstrating the installation process of the Fluidmaster 400A fill valve.*

## Replace Toilet Fill Valve

Your browser does not support the video tag.

*Video: Step-by-step guide on replacing a toilet fill valve, applicable to the Fluidmaster 400A.*

## Fluidmaster Toilet Fill Valve 400A How To Install Demo

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*Video: A demonstration of the installation process for the Fluidmaster 400A fill valve.*

### 3. OPERATING PRINCIPLES

The Fluidmaster 400A fill valve operates by sensing the water level in the toilet tank. After a flush, as the water level drops, the float mechanism within the valve lowers, opening the water inlet. Water then flows into the tank and simultaneously through the refill tube into the overflow pipe to replenish the toilet bowl.

As the water level rises, the float mechanism lifts, gradually closing the water inlet. Once the desired water level is reached, the valve completely shuts off the water flow, ensuring efficient and quiet operation. The anti-siphon design prevents backflow of tank water into the fresh water supply.

#### 3.1. How the Fill Valve Works

##### How Toilet Fill Valves Work

Your browser does not support the video tag.

*Video: An explanation of the internal workings and operating principles of a toilet fill valve.*

### 4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Fluidmaster 400A fill valve. This primarily involves checking and adjusting the water level and cleaning the valve components if necessary.

#### 4.1. Adjusting Water Level

The water level in the tank can be adjusted using the float adjustment screw. Turning the screw clockwise will raise the water level, while turning it counter-clockwise will lower it. The ideal water level should be roughly 1/2 inch below the top of the overflow pipe to ensure a proper flush and prevent overflow.

#### 4.2. Cleaning the Fill Valve

If the fill valve is not stopping water flow correctly, or if you notice reduced performance, mineral deposits or dirt might be accumulating inside. You can often clean the valve by removing the cap and rinsing the internal components. Ensure to reassemble correctly after cleaning.

### 5. TROUBLESHOOTING

- **Toilet Runs Continuously:**

- Check the water level adjustment. It might be too high, causing water to continuously flow into the overflow pipe. Adjust the float screw to lower the water level.
- Inspect the flapper for proper sealing. A worn or misaligned flapper can cause leaks.
- Clean the fill valve. Mineral deposits or debris can prevent the valve from closing completely.

- **Slow Tank Fill:**

- Check the water supply valve to ensure it is fully open.
- Inspect the fill valve for blockages or debris that might restrict water flow. Cleaning the valve might resolve this.

- **Noisy Fill:**

- Ensure the refill tube is not kinked or obstructed.
- Check the water pressure. Extremely high water pressure can sometimes cause noise.

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## 6. SPECIFICATIONS

Feature	Detail
Brand	Fluidmaster
Model Number	400A (also 100554467)
Material	Plastic
Item Dimensions (L x W x H)	12 x 3 x 12.5 inches
Item Weight	0.5 Pounds
Maximum Operating Pressure	200 Pound per Square Inch (PSI)
Thread Size	7/8" or 1 1/4"
Valve Type	Float Valve
Included Components	Fill valve, nut, and refill tube
Compliance	NSF, ANSI

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## 7. WARRANTY & SUPPORT

The Fluidmaster 400A Anti-Siphon Universal Toilet Tank Fill Valve comes with a **5-year warranty**. For technical support, troubleshooting assistance, or warranty claims, please refer to the official Fluidmaster website or contact their customer service directly.

Visit the [Fluidmaster Store](#) for more information and products.

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