

CAI - FLUIDMASTER Asv-2023

FLUIDMASTER Anti-Siphon Toilet Fill Valve (Model Asv-2023) Instruction Manual

For Use with Most Toilet Tanks

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your FLUIDMASTER Anti-Siphon Toilet Fill Valve, Model Asv-2023. This fill valve is designed to replace or upgrade the fill mechanism in most standard toilet tanks, ensuring efficient and reliable water refilling after each flush. It features an anti-siphon design to prevent backflow contamination of your water supply.

Please read these instructions carefully before beginning installation to ensure proper function and safety.

2. SAFETY INFORMATION

- Always turn off the water supply to the toilet before beginning any work.
- Flush the toilet to drain the tank completely before proceeding.
- Wear appropriate personal protective equipment, such as gloves and eye protection, if necessary.
- Ensure all connections are secure to prevent leaks.
- Do not overtighten plastic nuts, as this can cause damage.

3. PACKAGE CONTENTS

Verify that all components are present before starting installation:

- FLUIDMASTER Anti-Siphon Toilet Fill Valve (Model Asv-2023)
- Shank Washer
- Lock Nut
- Refill Tube
- Refill Clip

4. TOOLS REQUIRED

- Adjustable Wrench or Pliers
- Sponge or Towel (for water cleanup)
- Bucket (optional, for draining residual water)

5. INSTALLATION INSTRUCTIONS (SETUP)

Follow these steps to install the FLUIDMASTER Anti-Siphon Toilet Fill Valve:

1. **Turn Off Water Supply:** Locate the water supply valve at the base of the toilet and turn it clockwise until the water flow stops completely.
2. **Drain Toilet Tank:** Flush the toilet to empty the tank. Hold the flush handle down until most of the water has drained. Use a sponge or towel to remove any remaining water from the tank.
3. **Disconnect Water Supply Line:** Unscrew the water supply line from the bottom of the old fill valve. A small amount of water may drip out, so have a towel ready.
4. **Remove Old Fill Valve:** Inside the tank, unscrew the lock nut from the bottom of the old fill valve. Remove the old fill valve from the tank.
5. **Prepare New Fill Valve:** Ensure the shank washer is properly seated on the threaded shank of the new FLUIDMASTER fill valve.
6. **Install New Fill Valve:** Insert the threaded shank of the new fill valve through the hole in the bottom of the toilet tank. From underneath the tank, thread the lock nut onto the shank and hand-tighten it. Then, use an adjustable wrench or pliers to tighten it an additional 1/4 to 1/2 turn. Do not overtighten.
7. **Connect Refill Tube:** Attach one end of the refill tube to the small port on the top of the fill valve. Clip the other end of the refill tube to the overflow pipe using the refill clip. Ensure the refill tube is positioned above the water level in the tank.
8. **Adjust Fill Valve Height:** The fill valve height can be adjusted to fit your tank. Hold the upper part of the valve and twist the lower part to extend or retract the height. The critical level mark (CL) on the valve must be at least 1 inch above the top of the overflow pipe.
9. **Reconnect Water Supply Line:** Reconnect the water supply line to the threaded shank at the bottom of the new fill valve. Hand-tighten, then use a wrench for a final snug turn. Do not overtighten.
10. **Turn On Water Supply:** Slowly turn the water supply valve counter-clockwise to restore water flow to the toilet. The tank will begin to fill.
11. **Adjust Water Level:** Once the tank is full, check the water level. It should be approximately 1 inch below the top of the overflow pipe. To adjust the water level, turn the adjustment screw on the top of the fill valve (usually clockwise to raise the water level, counter-clockwise to lower it). Flush the toilet to test the new setting.
12. **Check for Leaks:** Inspect all connections for any signs of leaks. Tighten connections slightly if necessary.



Figure 1: The FLUIDMASTER Anti-Siphon Toilet Fill Valve. This image displays the FLUIDMASTER Anti-Siphon Toilet Fill Valve. It features a vertical shaft with a float mechanism, a water level adjustment screw, and a threaded base for connection to the toilet tank. The valve is primarily black and gray.

6. OPERATING INSTRUCTIONS

The FLUIDMASTER Anti-Siphon Toilet Fill Valve operates automatically to refill your toilet tank after each flush. When the toilet is flushed, the water level in the tank drops, causing the float mechanism on the fill valve to lower. This opens the valve, allowing fresh water to enter the tank and refill it to the preset level.

As the water level rises, the float mechanism lifts, eventually closing the valve and stopping the water flow once the desired level is reached. A small amount of water is also directed through the refill tube into the overflow pipe to replenish the water in the toilet bowl.

7. MAINTENANCE

Regular maintenance can extend the life and efficiency of your fill valve:

- **Inspect Annually:** Periodically check the fill valve for any signs of wear, cracks, or mineral buildup.
- **Clean Mineral Deposits:** If you notice slow filling or incomplete shut-off, mineral deposits may be affecting the valve. Turn off the water supply, remove the top cap of the fill valve (refer to specific model instructions if different), and gently clean any visible mineral buildup with a soft brush and white vinegar. Rinse thoroughly before reassembling.
- **Check Refill Tube:** Ensure the refill tube is securely attached and directing water into the overflow pipe without kinks or obstructions.

8. TROUBLESHOOTING

If you encounter issues with your FLUIDMASTER fill valve, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Toilet runs continuously or cycles on and off.	Water level too high; float mechanism obstructed; worn seal.	Adjust water level lower. Check for obstructions around the float. Inspect and clean or replace the fill valve seal if worn.
Toilet fills slowly.	Low water pressure; mineral buildup in valve; kinked supply line.	Check water supply valve is fully open. Clean mineral deposits from the fill valve. Ensure supply line is not kinked.
Toilet does not fill.	Water supply off; fill valve obstructed; faulty valve.	Ensure water supply valve is open. Check for severe obstructions. If valve is faulty, replacement may be necessary.
Water level in bowl is too low.	Refill tube disconnected or improperly positioned.	Ensure refill tube is securely attached to the fill valve and clipped to the overflow pipe, directing water into it.

9. SPECIFICATIONS

Feature	Detail
Brand	CAI - FLUIDMASTER
Model Number	Asv-2023
Item Weight	7.8 ounces
Product Dimensions	9.84 x 3.35 x 11.81 inches

Feature	Detail
Inlet Connection Type	Compression
Number of Ports	2
Specification Met	ASSE, CSA, UPC
UPC	696333357975

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official FLUIDMASTER website or contact their customer service directly. Keep your purchase receipt as proof of purchase.