

NuFlush NFHDIVF

NuFlush NFHDIVF Heavy Duty Commercial Toilet Fill Valve Instruction Manual

Model: NFHDIVF | Brand: NuFlush

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1. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these instructions may result in property damage or personal injury.

- Always turn off the water supply to the toilet before beginning any installation or maintenance.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Ensure all connections are tight to prevent leaks. Do not overtighten.
- This product is designed for commercial use only and is not intended for residential applications.

2. PRODUCT OVERVIEW

The NuFlush NFHDIVF Heavy Duty Commercial Toilet Fill Valve is engineered for high-traffic environments, providing fast and efficient toilet tank refilling. Its robust design ensures durability and reliable performance in demanding commercial settings.

Key Features:

- Heavy-duty commercial-grade construction.

- Universal design for various toilet needs.
- Extra-large fill tube for rapid bowl filling.
- Includes an outside-of-tank water filter adapter with screen to prevent calcium buildup.
- Adjustable height to fit tanks from 7 to 12 inches.
- Compatible with 7/8 inch male thread bottom-fed toilets.



Figure 2.1: NuFlush NFHDIVF Commercial Toilet Fill Valve, showing the main components including the valve body, refill tube, and adapter.



Figure 2.2: Front view of the NuFlush NFHDIVF Commercial Toilet Fill Valve, illustrating its adjustable height (7-10 inches in-tank) and width (4.25 inches), along with the 1/2-inch water connection and included 7/8-inch adapter.

3. SETUP & INSTALLATION

Follow these steps for proper installation of your NuFlush NFHDIVF Commercial Toilet Fill Valve.

1. **Turn Off Water Supply:** Locate the water shut-off valve for the toilet, typically on the wall or floor behind the toilet, and turn it clockwise until the water flow stops completely. Flush the toilet to drain the tank.
2. **Remove Old Fill Valve:** Disconnect the water supply line from the bottom of the old fill valve. Use a wrench if necessary. Unscrew the mounting nut from underneath the tank and remove the old fill valve.
3. **Prepare New Fill Valve:** The NuFlush NFHDIVF valve features an adjustable height. To adjust, locate the small red clip on the side of the valve stem. Pull this clip out to unlock the stem, then slide the upper portion of the valve up or down to achieve the desired height (between 7 and 12 inches) for your toilet tank. Ensure the top of the valve is approximately 1 inch below the tank's overflow tube. Reinsert the red clip to secure the adjustment.
4. **Install Filter Adapter:** The valve comes with an outside-of-tank water filter adapter. This adapter connects to the 1/2-inch water connection at the bottom of the fill valve and converts it to a 7/8-inch connection, which is common for most American toilets. Screw the filter adapter onto the bottom of the fill valve.
5. **Mount New Fill Valve:** Insert the new fill valve into the hole at the bottom of the toilet tank. Secure it from underneath the tank with the provided mounting nut. Hand-tighten first, then use a wrench for a final snug turn, being careful not to overtighten.
6. **Connect Refill Tube:** Attach the flexible refill tube from the top of the fill valve to the overflow tube of the flush valve. Ensure the tube is positioned to direct water into the overflow tube.
7. **Reconnect Water Supply:** Connect the toilet's water supply line to the filter adapter at the bottom of the fill valve. Hand-tighten, then use a wrench for a final snug turn.
8. **Restore Water Supply:** Slowly turn the water shut-off valve counter-clockwise to restore water flow to the toilet. Check for any leaks at all connection points.

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Video 3.1: Demonstrates the features and basic installation steps of the NuFlush Commercial Fill Valve, including height adjustment and connection points. This video provides a visual guide to the components and their assembly.

4. OPERATING & ADJUSTMENTS

The NuFlush NFHDIVF fill valve allows for precise control over water levels and fill rates to optimize performance for your specific toilet and usage requirements.

4.1. Adjusting Water Level in Tank

The water level in the toilet tank is controlled by the height of the fill valve. After installation, ensure the water level fills to approximately 1/2 inch below the top of the overflow tube. If the water level is too high or too low, repeat step 3 of the Setup & Installation section to adjust the valve height.

4.2. Adjusting Water Flow Rate (Gallons Per Minute)

This commercial fill valve features an adjustment for the water flow rate, allowing you to control how quickly the tank refills. This is particularly useful in high-traffic areas to ensure rapid readiness for subsequent flushes.

1. Locate the flow rate adjustment switch on the bottom of the fill valve.
2. There are three settings: 1 (lowest flow), 2 (medium flow), and 3 (highest flow).
3. Select the desired setting based on your toilet's performance and the required refill speed. A higher setting will provide faster tank refilling.

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Video 4.1: Illustrates the adjustable features of the NuFlush Commercial Fill Valve, including how to set the water level in the tank and adjust the gallons per minute flow rate for optimal performance.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your NuFlush NFHDIVF fill valve.

- **Filter Cleaning:** The outside-of-tank water filter adapter includes a screen designed to prevent calcium buildup and debris from entering the fill valve. Periodically inspect and clean this screen to maintain proper water flow. To clean, turn off the water supply, disconnect the water line from the adapter, remove the screen, rinse it thoroughly under running water, and reassemble.
- **General Cleaning:** Clean the exterior of the fill valve and tank components with a mild, non-abrasive cleaner and a soft cloth. Avoid harsh chemicals that could damage the plastic components.
- **Leak Inspection:** Regularly check all connections for signs of leaks. Tighten any loose connections as needed, but do not overtighten.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Toilet is running continuously or intermittently.	Water level too high, fill valve not shutting off, or flapper issue.	Adjust fill valve height (Section 3, Step 3) to ensure water level is below overflow tube. Inspect fill valve for debris. Check flapper for proper seal.
Toilet is noisy during refill.	High water pressure, debris in valve, or loose connections.	Check water supply pressure. Clean filter screen (Section 5). Ensure all connections are snug.
Toilet is slow to fill.	Low water pressure, clogged filter screen, or flow rate adjustment set too low.	Check water supply pressure. Clean filter screen (Section 5). Adjust flow rate setting to a higher level (Section 4.2).
Water leaks from connections.	Loose connections or damaged washers.	Tighten connections (Section 3, Steps 5 & 7). Inspect and replace washers if damaged.

7. SPECIFICATIONS

- **Material:** Acrylonitrile Butadiene Styrene (ABS)
- **Brand:** NuFlush
- **Model Number:** NFHDIVF
- **Item Dimensions (L x W x H):** 10 x 3 x 4 inches
- **Item Weight:** 14.1 ounces
- **Exterior Finish:** ABS
- **Inlet Connection Type:** 7/8 inch male thread (with included adapter for 1/2 inch)

- **Number of Ports:** 1
- **Adjustable Height:** Approximately 7 to 12 inches
- **UPC:** 643462996230

8. WARRANTY & SUPPORT

For warranty information, technical support, or assistance with your NuFlush NFHDIVF Heavy Duty Commercial Toilet Fill Valve, please contact NuFlush directly. Refer to the product packaging or the official NuFlush website for the most current contact details and warranty terms.

Manufacturer: NuFlush

Website: [Visit the NuFlush Store on Amazon](#)

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