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> NuFlush Replacement Flush Valve for Kohler Wellworth Toilets (Models K-3420, K-3421, Tank K-4512) - Installation and Maintenance Guide

NuFlush 606582757570

NuFlush Replacement Flush Valve for Kohler Wellworth Toilets

Models K-3420, K-3421, Tank K-4512 - Installation and Maintenance Guide

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NuFlush replacement flush valve. This product is specifically designed for Kohler Wellworth Series two-piece toilets, compatible with models K-3420 and K-3421, and tank model K-4512. Please read these instructions carefully before proceeding with installation to ensure proper function and longevity of the product.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- NuFlush Replacement Flush Valve Assembly (10 inches tall, 2.3 inch flapper valve)
- Stainless Steel Bolts
- Nuts
- Tank Gasket
- Hard Flapper with separate silicone ring



Figure 1: Complete NuFlush replacement flush valve kit, including the flush valve assembly, stainless steel bolts, nuts, and tank gasket.

3. SETUP AND INSTALLATION

Follow these steps to properly install the NuFlush replacement flush valve:

1. **Turn off Water Supply:** Locate the water supply valve to your toilet, usually on the wall behind or near the toilet, and turn it clockwise until the water flow stops.
2. **Flush Toilet:** Flush the toilet to empty the tank. Hold the handle down to ensure as much water as possible drains from the tank.

3. **Remove Remaining Water:** Use a sponge or towel to remove any remaining water from the toilet tank.
4. **Disconnect Supply Line:** Disconnect the water supply line from the bottom of the toilet tank.
5. **Remove Old Flush Valve:** Unscrew the nuts holding the toilet tank to the bowl. Carefully lift the tank off the bowl. Remove the old flush valve and tank gasket.
6. **Install New Tank Gasket:** Place the new tank gasket onto the bottom of the new NuFlush flush valve.
7. **Install New Flush Valve:** Insert the new flush valve assembly into the tank opening from the inside. Ensure it is seated correctly.
8. **Reattach Tank to Bowl:** Carefully place the toilet tank back onto the bowl, aligning the bolt holes. Insert the stainless steel bolts and secure them with the provided nuts, tightening them evenly to prevent cracking the tank.
9. **Reconnect Water Supply:** Reconnect the water supply line to the bottom of the tank.
10. **Adjust Flapper Chain:** Connect the flapper chain to the toilet handle lever. Adjust the chain length so there is a small amount of slack when the flapper is closed.
11. **Restore Water Supply:** Slowly turn the water supply valve counter-clockwise to restore water flow to the tank. Check for leaks.



Figure 2: Illustration showing the 10-inch height of the flush valve and the 2.3-inch flapper valve assembly, crucial for compatibility with two-piece toilets.

4. OPERATION

The NuFlush replacement flush valve is designed for optimal flushing performance in Kohler Wellworth two-piece toilets. Its 2.3-inch flapper valve assembly features a hard flapper with a separate silicone ring, ensuring a superior seal. The design allows the flapper valve to stay open longer during a flush cycle, maximizing the amount of water released into the bowl. This increased water volume contributes to a more effective and powerful flush, which is essential for efficient waste removal.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your flush valve:

- **Inspect Flapper:** Periodically check the flapper for signs of wear, warping, or mineral buildup. A worn flapper can lead to leaks.

- **Clean Components:** If mineral deposits accumulate on the flush valve or flapper, gently clean them with a soft brush and a mild, non-abrasive cleaner. Avoid harsh chemicals that could damage rubber or plastic components.
- **Check Chain Slack:** Ensure the flapper chain has appropriate slack. Too much slack can prevent a full flush, while too little can prevent the flapper from sealing completely.
- **Verify Seal:** Occasionally check the tank gasket and bolt seals for any signs of leakage.

6. TROUBLESHOOTING

Refer to the following common issues and their potential solutions:

- **Toilet Runs Continuously:**
 - Check if the flapper is sealing properly. Adjust the chain if it's too tight or too loose.
 - Inspect the flapper for debris or wear that prevents a complete seal.
 - Ensure the fill valve is not overfilling the tank, causing water to spill into the overflow tube.
- **Weak Flush:**
 - Ensure the flapper chain has enough slack to allow the flapper to open fully.
 - Verify that the water level in the tank is at the recommended fill line.
- **Leaks from Tank Base:**
 - Check the tightness of the tank bolts. Do not overtighten.
 - Ensure the tank gasket is properly seated and not damaged.

7. SPECIFICATIONS

Brand	NuFlush
Model Number	606582757570
Compatibility	Kohler Wellworth Series Two-Piece Toilets (K-3420, K-3421, Tank K-4512)
Flapper Valve Size	2.3 inches
Overall Height	10 inches
Included Components	Flush Valve, Stainless Steel Bolts, Nuts, Tank Gasket, Hard Flapper
UPC	606582759666



Figure 3: Close-up view of the NuFlush flush valve components, highlighting the flapper and the base assembly.

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your NuFlush replacement flush valve, please refer to the contact information provided with your purchase or visit the official NuFlush website. Keep your proof of purchase for warranty claims.