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**Milwaukee UP667 3/4"**

# Milwaukee UP667 3/4" Low Lead Brass Gate Valve Instruction Manual

Model: UP667 3/4"

## 1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Milwaukee UP667 3/4" Low Lead Brass Gate Valve. Please read these instructions thoroughly before installation or use to ensure proper function and longevity of the product.

The Milwaukee UP667 3/4" Gate Valve is designed for use with potable water systems, featuring a low lead brass construction to comply with relevant standards.

## 2. Safety Information

**WARNING:** Failure to follow these safety instructions could result in property damage, serious injury, or death.

- Always shut off the main water supply before installing or servicing the valve.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation and maintenance.
- Ensure all connections are properly sealed to prevent leaks.
- Do not exceed the maximum rated pressure (200 psi) or temperature (200°F) for this valve.
- This valve is designed for potable water applications. Do not use for applications outside its specified use without consulting a qualified professional.
- Comply with all local plumbing codes and regulations during installation.

## 3. Product Description and Features

The Milwaukee UP667 3/4" Gate Valve is a durable and reliable component for controlling fluid flow in plumbing systems. Its low lead brass construction ensures compliance with standards for potable water use.



*Figure 1: Milwaukee UP667 3/4" Low Lead Brass Gate Valve. This image shows the valve with its cast iron handwheel, brass body, and threaded connections.*

### Key Features:

- **Size:** 3/4 inch
- **Connection Type:** NPT (National Pipe Taper)
- **Material:** Low Lead Brass body, Brass stem, Brass wedge, Cast Iron handwheel
- **Bonnet Style:** Threaded
- **Stem Type:** Non-Rising Stem
- **Rated Pressure:** 200 psi CWP (Cold Working Pressure)
- **Maximum Temperature:** 200°F (93°C)
- **Compliance:** WOG, NSF/ANSI 372, AB 1953, S 152, Senate Bill S3877
- **Application:** Potable Water

## 4. Setup and Installation

Proper installation is crucial for the performance and longevity of the gate valve. If you are unsure about any step, consult a qualified plumber.

1. **Prepare the System:** Turn off the main water supply and drain the system to relieve pressure.
2. **Inspect the Valve:** Before installation, inspect the valve for any damage or debris. Ensure the valve is in the fully open position to prevent damage during installation.
3. **Prepare Pipe Ends:** Ensure pipe ends are clean, free of burrs, and properly threaded for NPT connections.
4. **Apply Sealant:** Apply appropriate pipe thread sealant (e.g., PTFE tape or pipe dope) to the male NPT threads of the pipes.
5. **Thread the Valve:** Carefully thread the valve onto the pipe ends. Hand-tighten first, then use a wrench to tighten until snug. *Do not overtighten*, as this can damage the valve or pipe threads.
6. **Support the Valve:** Ensure the valve and connected piping are adequately supported to prevent stress on the

connections.

7. **Test for Leaks:** Slowly restore water pressure to the system and carefully check all connections for leaks. Tighten connections slightly if minor leaks are observed.

## 5. Operating Instructions

The Milwaukee UP667 3/4" Gate Valve operates by rotating the handwheel to raise or lower a wedge (gate) inside the valve body, controlling the flow of fluid.

- **To Open the Valve:** Turn the cast iron handwheel counter-clockwise. Continue turning until the handwheel stops, indicating the valve is fully open.
- **To Close the Valve:** Turn the cast iron handwheel clockwise. Continue turning until the handwheel stops, indicating the valve is fully closed.
- **Flow Control:** Gate valves are generally designed for full open or full closed service. They are not recommended for throttling or regulating flow, as this can cause excessive wear on the gate and seats.

## 6. Maintenance

Regular inspection and minimal maintenance can extend the life of your gate valve.

- **Periodic Inspection:** Periodically check the valve for any signs of leaks, corrosion, or damage.
- **Operation:** Operate the valve (open and close it fully) at least once a year to prevent the gate from seizing in one position, especially in systems where it remains open for extended periods.
- **Cleaning:** Keep the exterior of the valve clean. Avoid using harsh chemicals that could damage the brass or cast iron components.
- **Packing Gland:** If minor leaks occur around the stem, the packing gland nut (located below the handwheel) may need to be slightly tightened. *Do not overtighten*, as this can impede valve operation.

## 7. Troubleshooting

Here are some common issues and their potential solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Valve leaks from pipe connections | Improperly sealed threads, damaged threads, overtightening. | Shut off water supply. Drain system. Reapply pipe thread sealant and re-tighten connections. Inspect threads for damage. |
| Valve leaks from stem (around handwheel) | Loose packing gland nut, worn packing. | Slightly tighten the packing gland nut. If leak persists, the packing may need replacement (consult a professional). |
| Valve is difficult to turn or seized | Infrequent operation, mineral buildup, corrosion, overtightened packing gland. | Do not force the valve. Try gently turning it back and forth. If the packing gland is overtightened, loosen it slightly. If still seized, replacement may be necessary. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Valve does not fully close or open | Debris in valve, damaged gate or seat. | Shut off water supply. Drain system. Inspect for debris. If internal components are damaged, the valve may need replacement. |

## 8. Specifications

| | |
|---|---|
| **Model Number** | UP667 3/4" |
| **Valve Type** | Gate Valve |
| **Nominal Size** | 3/4 inch |
| **Connection Type** | NPT Threaded |
| **Body Material** | Low Lead Brass |
| **Stem Material** | Brass |
| **Wedge Material** | Brass |
| **Handwheel Material** | Cast Iron |
| **Bonnet Style** | Threaded |
| **Stem Type** | Non-Rising |
| **Maximum Pressure (CWP)** | 200 psi |
| **Maximum Temperature** | 200°F (93°C) |
| **Application** | Potable Water |
| **Standards & Compliance** | WOG, NSF/ANSI 372, AB 1953, S 152, Senate Bill S3877 |
| **Inlet to Outlet Length** | 1.84 inches (approx. 1-27/32") |
| **Top of Handle to Inlet Center** | 3.31 inches (approx. 3-5/16") |

## 9. Warranty and Support

For specific warranty information regarding your Milwaukee UP667 3/4" Low Lead Brass Gate Valve, please refer to the documentation provided at the point of purchase or contact the manufacturer directly.

If you require technical assistance or have questions not covered in this manual, please contact Milwaukee customer support or your authorized dealer. When contacting support, please have your product model number (UP667 3/4") and purchase details readily available.

**Manufacturer:** MILWAUKEE VALVE

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