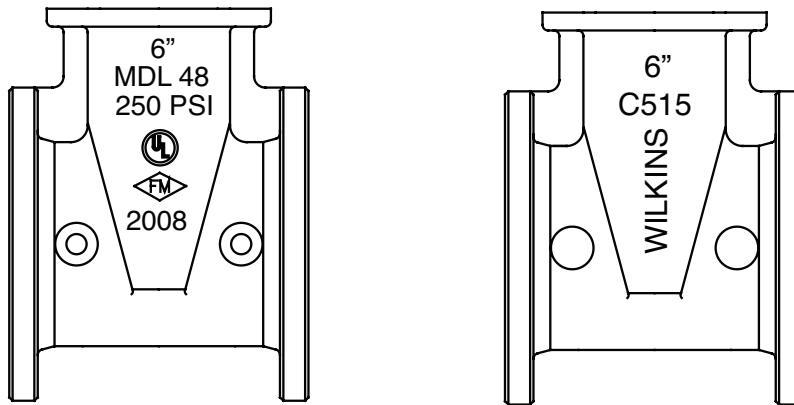


# ZURN WILKINS Model 48 Resilient Wedge Gate Valve Maintenance Procedures

## Valve Identification

The ZURN WILKINS Model 48 Resilient Wedge Gate Valve can be distinguished from other gate valve brands by observing the unique lettering on the valve body. One side designates the valve size, model, pressure rating, year of manufacture, and the UL/FM logos. The opposite side displays the valve size and “WILKINS” in vertical lettering. See pictures below.



Gate valves that do not contain the name WILKINS in raised cast letters on the valve body are not ZURN WILKINS brand.

## Installation Instructions

**CAUTION:** Installation of ZURN WILKINS Model 48 Gate Valves must be performed by qualified, licensed personnel.

1. Cycle valve open and closed to ensure proper operation. Check that valve end connections are clean. Fully close valve prior to installation. NOTE: For OS&Y valves, a small amount of packing rubber may exit the valve via the stem during initial operations. This is normal and does not affect valve performance. If stem leakage occurs, lightly tighten bronze gland nuts evenly until leakage stops.
2. Install valve per proper methods according to end connection type.
3. If used in buried service, a valve box or vault should be provided for each valve.
4. Ensure all bolts are sufficiently tight prior to pressurization.
5. Once pressurized, open valve and thoroughly flush line to remove debris.
6. Inspect valve for external leaks. If a leak is detected, see TROUBLESHOOTING section.
7. Fully close valve and listen for leaks past the wedge. If a leak is detected, see TROUBLESHOOTING section.
8. Fully open valve. ZURN WILKINS Model 48 Gate Valve is now in service.

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
**⚠ ADVERTENCIA:** Cáncer y daño reproductivo - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
**⚠ AVERTISSEMENT:** Cancer et néfastes sur la reproduction - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# Maintenance Instructions

All ZURN WILKINS Model 48 Gate Valves must be inspected and maintained by qualified, licensed personnel at least once a year or more frequently as specified by local codes. Replacement of worn or damaged parts must only be made with genuine “ZURN WILKINS” parts.

## Servicing Wedge and Bonnet Seal:

1. Shut off main water supply. If servicing a gate valve attached to the downstream side of a backflow preventer, the upstream shut-off valve may be closed instead of the main water supply.
2. Relieve line pressure.
3. Remove bonnet nuts and bolts.
4. Slowly lift and remove bonnet assembly and wedge from valve body.
5. Clean all parts thoroughly after disassembly.
6. Carefully inspect bonnet seal and wedge for wear or damage. Replace if worn or damaged.
7. Carefully inspect body interior seating surface for coating damage and foreign debris. Clean seating surface or replace valve if necessary.
8. Reinstall wedge and bonnet assembly.
9. Tighten down bonnet nuts and bolts evenly. Do not over tighten.

## Servicing Gland Stuffing Box (OS&Y):

1. Make sure gate valve is fully open.
2. Remove gland nuts.
3. Raise gland and gland bushing.
4. Remove packing rings from stuffing box using a small pick or similar device.
5. Replace worn or damaged packing rings.
6. Lower gland and gland bushing and lightly tighten gland nuts.
7. Cycle valve fully closed to fully open.
8. If there is stem leakage, tighten gland nuts until leakage stops.

## Servicing Stem Seals (NRS):

1. Shut off main water supply and relieve line pressure.
2. Remove the bolt and washer retaining the operating nut/handwheel.
3. Remove operating nut/handwheel.
4. Remove gland flange bolts and gland flange.
5. Remove stem by turning stem clockwise.
6. Replace stem o-rings, gland flange o-ring, wiper ring, and thrust washers if necessary.
7. Reassemble in reverse order.

# Troubleshooting

<b>PROBLEM</b>	<b>POSSIBLE CAUSES</b>	<b>CORRECTIVE ACTION</b>
<b>1. Body Leakage</b>	<ol style="list-style-type: none"><li>1. Loose bonnet bolts</li><li>2. Dirty or damaged bonnet seal</li></ol>	<ol style="list-style-type: none"><li>1. Tighten bolts</li><li>2. Inspect bonnet seal. Clean or replace if necessary</li></ol>
<b>2. Seat Leakage</b>	<ol style="list-style-type: none"><li>1. Foreign debris between seat and wedge</li><li>2. Dirty/corroded seat</li><li>3. Damaged seat or wedge</li></ol>	<ol style="list-style-type: none"><li>1. Cycle valve and flush line</li><li>2. Flush line or disassemble and clean</li><li>3. Repair or replace valve</li></ol>
<b>3. Stem Leakage</b>	<ol style="list-style-type: none"><li>1. Packing nuts loose</li><li>2. Stem o-rings worn (NRS)</li><li>3. Packing rings worn (OS&amp;Y)</li></ol>	<ol style="list-style-type: none"><li>1. Tighten nuts</li><li>2. Replace stem o-rings</li><li>3. Replace packing rings</li></ol>