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> Mueller Industries 511-706BG Galvanized Union Instruction Manual

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Model: 511-706BG

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1. PRODUCT OVERVIEW

The Mueller Industries 511-706BG is a 1-1/4 inch galvanized union pipe fitting. This component is designed for use in rough plumbing, pipe, and conduit accessory applications, providing a secure and detachable connection between two pipes. It is constructed from durable iron and features NPT (National Pipe Taper) threads for a reliable seal.



**Figure 1:** Mueller Industries 511-706BG Galvanized Union. This image displays the complete union fitting, consisting of three main parts: two threaded end pieces and a central nut, designed to connect two pipes.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions when handling and installing pipe fittings:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, to prevent injury from sharp edges or debris.
- Ensure the system is depressurized and drained before attempting any installation or maintenance.
- Use the correct tools for installation and avoid over-tightening, which can damage threads or the fitting itself.
- Verify that the fitting material is compatible with the fluid or gas being transported and the operating pressure and temperature.
- Consult local plumbing codes and regulations for proper installation practices.

### 3. INSTALLATION

Follow these steps for proper installation of the galvanized union:

1. **Prepare Pipe Ends:** Ensure the ends of the pipes to be joined are clean, free of burrs, and properly threaded.
2. **Apply Thread Sealant:** Apply an appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male NPT threads of the pipes. This helps ensure a watertight and airtight seal.
3. **Assemble Union Components:** The union consists of three parts: two threaded end pieces and a central nut. Thread one end piece onto each pipe.
4. **Align and Connect:** Bring the two pipe ends with their respective union pieces together. Ensure proper alignment.
5. **Tighten Union Nut:** Engage the central nut with both end pieces. Hand-tighten first, then use a pipe wrench to tighten securely. Do not over-tighten, as this can strip threads or crack the fitting. The goal is a firm, leak-free connection.
6. **Test for Leaks:** After installation, pressurize the system and carefully check all connections for leaks. Address any leaks immediately by re-tightening or re-applying sealant if necessary.

### 4. FUNCTION

A union fitting serves to connect two pipes while allowing for easy disconnection without having to rotate either pipe. This is particularly useful in plumbing systems where components may need to be removed for maintenance or replacement. The three-piece design (two threaded ends and a central nut) creates a strong, leak-proof joint that can be assembled and disassembled repeatedly.

### 5. MAINTENANCE

Regular maintenance helps ensure the longevity and proper function of the galvanized union:

- **Visual Inspection:** Periodically inspect the union for any signs of corrosion, rust, or physical damage. Galvanized coatings provide corrosion resistance, but damage can expose the underlying iron.
- **Leak Checks:** Regularly check for any signs of leaks around the union connection, especially after system pressure changes or temperature fluctuations.
- **Cleaning:** If exposed to harsh environments, clean the exterior of the fitting to prevent buildup that could accelerate corrosion.
- **Re-tightening:** If minor leaks are detected, a slight re-tightening of the union nut may resolve the issue. If leaks persist, the union may need to be disassembled, threads cleaned, and new sealant applied.

### 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Leak at union connection	<ul style="list-style-type: none"><li>• Insufficient tightening</li><li>• Improper thread sealant application</li><li>• Damaged threads</li><li>• Corrosion</li></ul>	<ul style="list-style-type: none"><li>• Slightly re-tighten the union nut.</li><li>• Depressurize system, disassemble, clean threads, re-apply sealant, and reassemble.</li><li>• Inspect threads for damage; replace fitting if necessary.</li><li>• Replace corroded fitting.</li></ul>

Problem	Possible Cause	Solution
Difficulty in assembly/disassembly	<ul style="list-style-type: none"><li>• Cross-threading</li><li>• Excessive corrosion</li><li>• Debris in threads</li></ul>	<ul style="list-style-type: none"><li>• Ensure proper alignment before tightening.</li><li>• Clean threads thoroughly.</li><li>• Remove any debris from threads.</li></ul>

## 7. SPECIFICATIONS

- Model Number:** 511-706BG
- Size:** 1.25 inches
- Material:** Iron
- Brand:** MUELLER
- Connector Type:** Union
- Thread Type:** NPT
- Item Dimensions (L x W x H):** 3.1 x 3.1 x 3.1 inches
- Item Weight:** 1.14 Pounds
- Number of Pieces:** 1 (refers to the complete union assembly)
- Manufacturer:** Jensen (Home Improvement)
- UPC:** 032888405608
- Part Number:** 511-706HN

## 8. WARRANTY AND SUPPORT

Specific warranty information for the Mueller Industries 511-706BG Galvanized Union should be obtained directly from the manufacturer, MUELLER, or your authorized seller at the time of purchase. For technical support or inquiries, please contact the manufacturer's customer service department.

