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> Viega ProPress Zero Lead Copper Coupling 78177 User Manual

Viega 78177

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Model: 78177 | Size: 3/4 Inch Press x Press

1. INTRODUCTION

This manual provides essential information for the proper installation, use, and maintenance of the Viega ProPress Zero Lead Copper Coupling, model 78177. This coupling is designed for reliable, watertight connections in copper piping systems without the need for soldering. Please read these instructions carefully before installation to ensure safe and effective operation.

2. SAFETY INFORMATION

Always adhere to local plumbing codes and safety regulations during installation. Failure to follow these guidelines may result in property damage, injury, or system failure.

- **Personal Protective Equipment:** Wear appropriate safety glasses, gloves, and other protective gear during installation.
- **Tool Safety:** Use only approved Viega ProPress tools and jaws for pressing connections. Ensure tools are in good working condition and properly maintained.
- **System Pressure:** Depressurize and drain the piping system completely before beginning any installation or repair work.
- **Material Compatibility:** Ensure the coupling is compatible with the piping material and system fluids. This coupling is designed for copper piping.
- **Lead-Free Compliance:** This product is a Zero Lead coupling, suitable for potable water applications.

3. PRODUCT OVERVIEW

The Viega ProPress Zero Lead Copper Coupling (Model 78177) is a 3/4-inch press x press fitting designed for quick and secure connections in copper plumbing systems. It features Viega's patented Smart Connect technology, which helps identify unpressed connections during system testing.



Image 1: Viega ProPress Zero Lead Copper Coupling, model 78177. This image displays the copper coupling, highlighting its design for press connections.

Key Features:

- **Fast Installation:** Connections are made in seconds, significantly reducing installation time compared to traditional methods.
- **Watertight Seal:** Ensures a consistent, strong, and reliable watertight seal.
- **Smart Connect Technology:** Identifies unpressed connections during system testing, preventing missed connections.
- **Versatility:** Adaptable for various commercial, industrial, or residential applications.
- **No Soldering:** Eliminates the need for heat, solder, and flux, enhancing safety and simplifying the process.

4. SETUP AND INSTALLATION

Proper installation is crucial for the long-term performance of the Viega ProPress coupling. Follow these steps carefully:

1. **Pipe Preparation:**
 - Cut the copper pipe squarely using a pipe cutter.
 - Deburr the inside and outside edges of the pipe to prevent damage to the sealing element.
 - Clean the pipe ends to remove any dirt, oil, or debris.
2. **Marking Insertion Depth:** Use a depth gauge or mark the pipe to ensure it is fully inserted into the coupling. The pipe must reach the stop within the coupling.
3. **Insert Pipe:** Push the prepared pipe end firmly into the coupling until it reaches the internal stop. Ensure the pipe is straight and fully seated.
4. **Position Press Tool:** Open the jaws of the Viega ProPress tool and position them squarely over the coupling. Ensure the jaws are fully engaged around the fitting.
5. **Press Connection:** Activate the press tool. The tool will cycle through the pressing process, creating a secure, permanent connection. Ensure the pressing cycle is completed fully.

6. **Verify Connection:** After pressing, visually inspect the connection to ensure the jaws have fully compressed the fitting. The Smart Connect feature will allow water to pass through an unpressed connection during initial system testing, indicating a missed press.
7. **System Testing:** After all connections are made, perform a pressure test on the system according to local codes and manufacturer recommendations.

5. OPERATING PRINCIPLES

The Viega ProPress coupling functions as a permanent, mechanical connection for copper piping. Once properly pressed, the coupling creates a secure, leak-proof seal that eliminates the need for traditional soldering. The integrated sealing element within the coupling is compressed by the press tool, forming a durable bond between the pipe and the fitting. This method allows for wet connections, making it ideal for maintenance and repair scenarios where draining the entire system may be impractical.

6. MAINTENANCE

Once installed correctly, Viega ProPress couplings are designed to be maintenance-free. However, periodic inspection of the entire piping system is recommended as part of general plumbing maintenance. Check for any signs of external damage or corrosion. If any issues are observed, consult a qualified plumbing professional.

7. TROUBLESHOOTING

Most issues with ProPress connections stem from improper installation. Review the installation steps if you encounter problems.

- **Leaking Connection:**
 - **Cause:** Incomplete press, pipe not fully inserted, damaged sealing element, burrs on pipe end, incorrect pipe size.
 - **Solution:** Ensure the press tool completed its cycle. If a leak persists, the connection must be cut out and replaced with a new coupling, ensuring proper pipe preparation and full insertion.
- **Smart Connect Feature Indicates Unpressed Connection (during testing):**
 - **Cause:** The coupling was not pressed, or the press cycle was incomplete.
 - **Solution:** Locate the unpressed connection and perform a full press cycle with the appropriate tool. If the connection was already pressed, re-evaluate the tool's function or replace the fitting if damaged.

8. SPECIFICATIONS

Specification	Detail
Model Number	78177
Size	0.75 Inch (3/4")
Material	Copper, Zero Lead
Connector Type	Coupling (Press x Press)

Item Dimensions (L x W x H)	2.21 x 0.8 x 0.8 inches
Item Weight	1.28 ounces
Number of Pieces (in pack)	25
Manufacturer	Viega PEX

9. WARRANTY INFORMATION

For detailed warranty information regarding the Viega ProPress Zero Lead Copper Coupling, please refer to the official Viega website or contact Viega customer service directly. Warranty terms and conditions may vary and are subject to the manufacturer's policies at the time of purchase.

10. SUPPORT

If you require further assistance, technical support, or have questions regarding the Viega ProPress system, please contact Viega customer support through their official website or the contact information provided with your product documentation. Always ensure you are using genuine Viega products and tools for optimal performance and safety.