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Viega 77027

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For secure and efficient pipe connections

1. INTRODUCTION

This manual provides essential instructions for the proper installation and use of the Viega 1-Inch ProPress 90-Degree Copper Elbow, Model 77027. This product is designed for creating reliable, watertight 90-degree connections in copper piping systems using the Viega ProPress system. Adherence to these instructions is crucial for ensuring the safety, performance, and longevity of the connection.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, during installation.
- Ensure the piping system is depressurized and drained before beginning any work.
- Use only genuine Viega ProPress tools and jaws for installation to ensure proper connection integrity.
- Do not attempt to modify the fitting. Use as intended by the manufacturer.
- Keep children and unauthorized personnel away from the work area.

3. PRODUCT OVERVIEW

The Viega 1-Inch ProPress 90-Degree Copper Elbow (Model 77027) is a high-quality copper fitting designed for quick and reliable connections. It features a pre-installed EPDM sealing element and is suitable for various applications, including potable water, heating, and chilled water systems.



Figure 1: Viega 1-Inch ProPress 90-Degree Copper Elbow. This image displays the copper elbow fitting with its distinctive ProPress connection ends.

4. SETUP AND PREPARATION

4.1 Required Tools and Materials

- Viega ProPress Press Tool with appropriate 1-inch jaws.
- Copper tubing (1-inch nominal size).
- Pipe cutter.
- Deburring tool/reamer.
- Measuring tape and marker.
- Clean cloth.

4.2 Pipe Preparation

1. **Cut the Pipe:** Cut the copper pipe to the desired length using a pipe cutter. Ensure the cut is straight and clean.
2. **Deburr the Pipe:** Remove any burrs from the inside and outside edges of the pipe using a deburring tool. This prevents damage to the sealing element.
3. **Clean the Pipe:** Wipe the outside of the pipe ends with a clean cloth to remove any dirt, oil, or moisture.
4. **Mark Insertion Depth:** Consult Viega documentation or the fitting itself for the correct insertion depth. Mark this depth on the pipe to ensure full insertion into the fitting.

5. OPERATING (INSTALLATION)

1. **Insert Pipe:** Fully insert the prepared copper pipe into the ProPress elbow until it reaches the marked insertion depth. Ensure the pipe is seated squarely against the stop inside the fitting.
2. **Position Press Tool:** Open the jaws of the Viega ProPress tool and place them squarely over the fitting. Ensure the jaws are correctly aligned with the fitting's bead and the pipe.
3. **Initiate Press Cycle:** Activate the press tool. The tool will cycle automatically, pressing the fitting onto the pipe. Hold the tool steady during the pressing process.

4. **Complete Press Cycle:** Allow the tool to complete its full press cycle. The jaws will typically open automatically or indicate completion.
5. **Inspect Connection:** After pressing, visually inspect the connection. The fitting should be securely crimped around the pipe, and the sealing element should be compressed. A properly pressed connection will show a distinct crimp mark.
6. Repeat for all connections.

Note: The ProPress system creates a permanent, mechanical connection. Once pressed, the fitting cannot be removed or repositioned without cutting the pipe and using a new fitting.

6. MAINTENANCE

Viega ProPress fittings are designed for long-term, maintenance-free operation once properly installed. Regular maintenance is generally not required for the fitting itself. However, it is recommended to:

- Periodically inspect the entire piping system for any signs of leaks or damage.
- Ensure that the piping system is adequately supported to prevent undue stress on fittings.
- Follow all local plumbing codes and regulations for system maintenance.

7. TROUBLESHOOTING

7.1 Leaks After Installation

- **Cause:** Improper pipe preparation (burrs, dirt), insufficient pipe insertion, incorrect press tool/jaw usage, or damaged sealing element.
- **Solution:** Depressurize and drain the system. A leaking ProPress connection cannot be re-pressed. The faulty connection must be cut out and replaced with a new fitting, ensuring all preparation and installation steps are followed precisely.

7.2 Fitting Not Fully Crimped

- **Cause:** Press tool malfunction, incorrect jaw size, or incomplete press cycle.
- **Solution:** Ensure the press tool is fully charged and functioning correctly. Verify that the correct 1-inch jaws are used and properly seated. If the press cycle was interrupted, attempt to complete it. If the fitting is still not fully crimped, it may need to be replaced.

8. SPECIFICATIONS

Feature	Detail
Model Number	77027
Size	1 Inch
Material	Copper
Connector Type	Elbow (90-Degree, P x P)
Number of Pieces	10 (as per product pack)
Item Weight	2.78 pounds (for the 10-pack)
Package Dimensions	6.97 x 6.57 x 2.76 inches
UPC	793897407877

9. WARRANTY INFORMATION

For detailed warranty information regarding the Viega 1-Inch ProPress 90-Degree Copper Elbow (Model 77027), please refer to the official Viega website or contact Viega customer service directly. Warranty terms and conditions may vary based on region and product type.

10. SUPPORT AND CONTACT

If you require technical assistance, have questions about installation, or need to report an issue, please contact Viega customer support. You can find contact information, including phone numbers and online resources, on the official Viega website: www.viega.us