

# Submittal Package

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## ProPress® System

☐ Potable Water

☒ Hydronic Heating

☐ Chilled Water

☐ Compressed Air

☐ Nitrogen N<sub>2</sub>

☐ Argon

☐ Low Pressure Steam

☐ Fire Protection

☐ Vacuum

☐ Corgon

☐ Oxygen O<sub>2</sub> (non medical)

☐ \_\_\_\_\_

**System Data Sheet** . . . . . 2

### ProPress Product Instructions

ProPress for ½" to 2" copper tubing . . . . . 3

ProPress XL for 2¼" to 4" copper tubing . . . . . 4

### ProPress® Dimensional Documentation

ProPress for ½" to 2" copper tubing . . . . . 5

ProPress XL for 2¼" to 4" copper tubing . . . . . 17

**Viega Limited Warranty ProPress® Fittings And Valves** . . . . . 23

# Submittal Package

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## System Data Sheet

ProPress® and ProPress XL (Copper) are safe, reliable and economical copper pipe installation systems that use modern cold press connection technology.

Viega® ProPress fittings are for use with type K, L and M hard copper tubing from ½" to 4" and soft copper tubing in ½" to 1¼" diameters. All tubing must comply with the ASTM B88 standard. ProPress fittings are approved for installations in both above and below ground applications. Per code, local inspector approval must be obtained prior to installation below ground.

ProPress has been used in Europe since the late 1980s and in the United States since the late 1990s for a variety of applications. Backed by two plumbing leaders with over 175 years of combined excellence.

### Listings and Certificates

- NSF 61G
- IAPMO PS117
- UL 213
- FM Class 1920
- ICC LC 1002
- CSA MSE-13
- ABS

### International Listings and Certificates

- Deutsch Verein des Gas-und Wasserfachese.V. (DVGW)
- Lloyd's Register (LR)
- Det Norske Veritas (DNV)
- Registro Italiano Navale (RINA)
- Bureau Veritas (BV)
- KIWA

### Compliant with:

- ICC International Plumbing Code
- IAPMO Uniform Plumbing Code
- PHCC National Standard Plumbing Code
- Florida Building Code, Volume II Plumbing Code
- NFPA 13, 13D and 13R
- ASME B16.51
- U.S. Coast Guard

Viega ProPress fittings are offered in configurations including: Elbows, Couplings, Reducers, Tees, Reducing Tees, Threaded Adapters, Unions, Caps and Flanges. All threaded ½" to 2" fittings are Zero Lead bronze.

### Operating Parameters

Operating Pressure: 200 PSI maximum  
Test Pressure: 600 PSI maximum  
Operating Temperature: 0°F to 250°F



### Approved Applications:

- Potable Water
- Hydronic Heating (w/ Glycol)
- Chilled Water
- Compressed Air
- Non-medical Gases
- Fire Sprinkler (175 PSI maximum)
- Low Pressure Steam (15 PSI maximum)
- Vacuum (29.2 in. Hg maximum @ 68°F)

In ProPress ½" to 4" dimensions, the Smart Connect Feature assures leakage of liquids and/or gases from inside the system past the sealing element of an unpressed connection. The function of this feature is to provide the installer quick and easy identification of connections which have not been pressed prior to putting the system into operation.

### Recommended Tools:

- RIDGID RP 200-B (½" to 1¼")
- RIDGID RP 210-B (½" to 1¼")
- RIDGID RP 320-E
- RIDGID RP 330-B or 330-C
- RIDGID RP 340
- RIDGID CT 400

Contact your local Viega representative for details on local approvals.

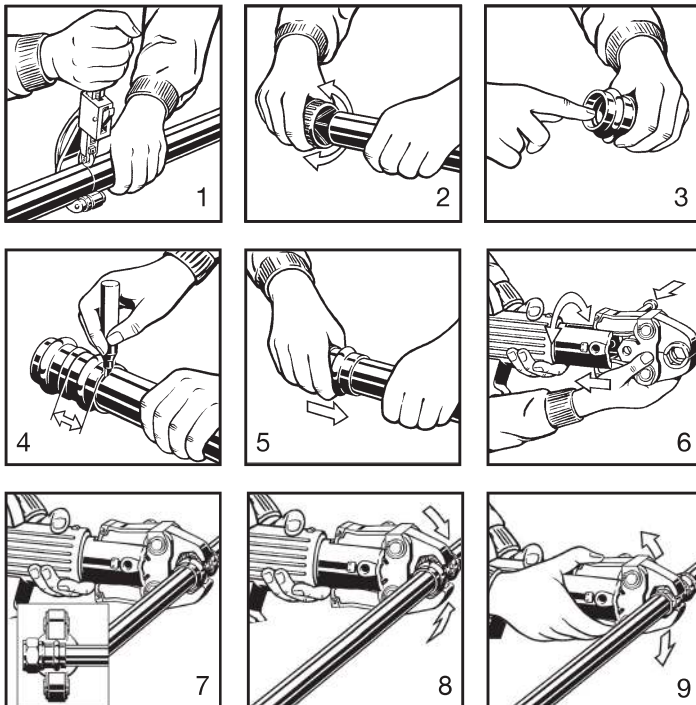
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## ProPress Product Instructions

### Viega ProPress®

For Types K, L and M Hard Copper Tubing in ½" to 2" and Soft Copper Tubing in ½" to 1¼"



**Viega ProPress Insertion Depth Chart**

| Tube Size       | ½" | ¾"   | 1"   | 1¼" | 1½"    | 2"     |
|-----------------|----|------|------|-----|--------|--------|
| Insertion Depth | ¾" | 7/8" | 7/8" | 1"  | 17/16" | 19/16" |

**⚠ WARNING** Read and understand all instructions for installing Viega ProPress fittings. Failure to follow all instructions may result in extensive property damage, serious injury or death.

1. Cut copper tubing at right angles using displacement-type cutter or fine-toothed steel saw.
2. Remove burr from inside and outside of tubing to prevent cutting sealing element.
3. Check seal for correct fit. Do not use oils or lubricants. Use only Viega ProPress Shiny Black EPDM or Dull Black FKM sealing elements.  
**Note:** For applications requiring Viega ProPress with FKM sealing elements, remove the factory-installed EPDM sealing element and replace with FKM sealing element.
4. Mark proper insertion depth as indicated by the Viega ProPress Insertion Depth Chart. Improper insertion depth may result in improper seal.
5. While turning slightly, slide press fitting onto tubing to the marked depth.  
**Note:** End of tubing must contact stop.
6. Insert appropriate Viega jaw into the pressing tool and push in, holding pin until it locks in place.
7. Open the jaw and place at right angles on the fitting. Visually check insertion depth using mark on tubing.
8. Start pressing process and hold the trigger until the jaw has engaged the fitting.
9. After pressing, the jaw can be opened again.



#### **Leak Testing with Smart Connect®:**

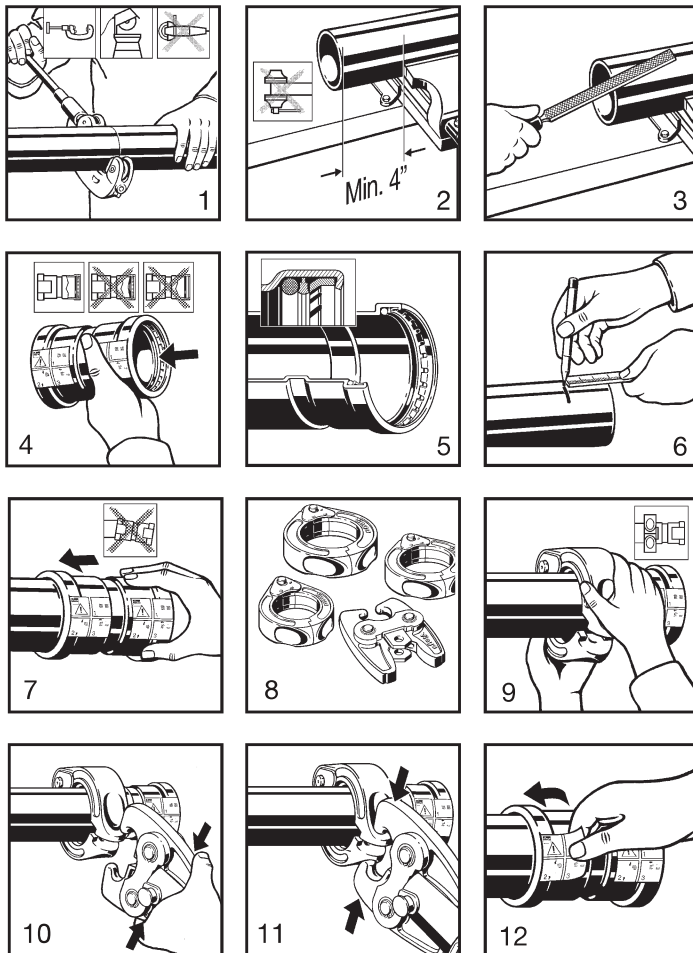
Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 psi to 85 psi maximum. Leak testing with air can be dangerous at high pressures. When testing with compressed air the proper pressure range is ½ psi to 45 psi maximum. Following a successful leak test, the system may be pressure tested up to 200 psi with air, or up to 600 psi with water, if required by local code requirements or project specifications.

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## Viega ProPress® XL (Copper)

For Types K, L and M Hard Copper Tubing in 2½" to 4"



**ProPress XL (copper) Insertion Depth Chart**

| Tube Size       | 2½" | 3"  | 4"  |
|-----------------|-----|-----|-----|
| Insertion Depth | 1⅞" | 1⅝" | 2⅜" |

**⚠ WARNING** Read, understand and follow all instructions for installing ProPress XL (copper) fittings. Failure to follow all instructions may result in extensive property damage, serious injury or death.

1. Cut copper tubing at right angles using displacement-type cutter or fine-toothed steel saw.
2. Keep end of tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.
3. Remove burr from inside and outside of tubing to prevent cutting sealing element.
4. Check seal and grip ring for correct fit. Do not use oils or lubricants. Use only ProPress Shiny Black EPDM sealing elements.
5. Illustration demonstrates proper fit of grip ring, separation ring and sealing element.
6. Mark proper insertion depth as indicated by the ProPress XL (copper) Insertion Depth Chart. Improper insertion depth may result in an improper seal.
7. While turning slightly, slide press fitting onto tubing to the marked depth. End of tubing must contact stop.
8. ProPress XL (copper) fitting connections must be performed with ProPress XL-C Rings and V2 ACTUATOR. Use of ProPress XL Rings and/or Actuator (for Bronze fittings) will result in an improper connection. See Ridgid Operator's Manual for proper tool instructions.
9. Open XL-C Ring and place at right angles on the fitting. XL-C Ring must be engaged on the fitting bead. Check insertion depth.
10. With V2 ACTUATOR inserted into the tool, open the V2 ACTUATOR as shown and connect V2 ACTUATOR to the XL-C Ring.
11. Place V2 ACTUATOR onto XL-C Ring and start pressing process. Hold the trigger until the Actuator has engaged the XL-C Ring. Keep extremities and foreign objects away from XL-C Ring and V2 ACTUATOR during pressing operation to prevent injury or incomplete press.
12. Release V2 ACTUATOR from XL-C Ring and then remove the XL-C Ring from the fitting on completion of press. Remove tag from fitting, indicating press has been performed.

**Leak Testing with Smart Connect®:** Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 psi to 85 psi. Leak testing with air can be dangerous at high pressures. When testing with compressed air the proper pressure range is ½ psi to 45 psi. Following a successful leak test, the system may be pressure tested up to 200 psi with air, or up to 600 psi with water, if required by local code requirements or project specifications.

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## Viega Limited Warranty ProPress® Fittings And Valves

Subject to the conditions and limitations in this Limited Warranty, Viega LLC (VIEGA) warrants to wholesalers and licensed plumbing and mechanical contractors in the United States and Canada that its PROPRESS fittings, when properly installed in non industrial and non marine applications and under normal conditions of use, will be free of failure from manufacturing defect for a period of fifty (50) years from date of installation and that its PROPRESS valves, when properly installed in non industrial and non marine applications and under normal conditions of use, will be free of failure from manufacturing defect for a period of two (2) years from date of installation.

Under this Limited Warranty, you only have a right to a remedy if the failure or leak resulted from a manufacturing defect in the products covered by this warranty and the failure or leak occurred during the warranty period. You do not have a remedy under this warranty and the warranty does not apply if the failure or any resulting damage is caused by (1) components other than those manufactured or sold by Viega; (2) not designing, installing, inspecting, or testing the ProPress fittings or valves in accordance with Viega's installation instructions in effect at the time of the installation; applicable code requirements; and accepted industry practice; (3) improper handling and protection of the product prior to and during installation, inadequate freeze protection, exposure to water pressures or temperatures or in applications outside acceptable operating conditions; (4) acts of nature such as, but not limited to, earthquakes, fire, flood, or lightning, or (5) external environmental causes, such as water quality variations, aggressive water, or other external chemical or physical conditions.

In the event of a leak or other failure of the parts covered by this warranty, it is the responsibility of the property owner to obtain and pay for repairs. Only if the warranty applies will Viega be responsible for the remedy under this

warranty. The part or parts which you claim failed should be kept and Viega contacted by writing to the address below or telephoning 1-800-976-9819 within thirty (30) days after the leak or other failure and identifying yourself as having a warranty claim. You should be prepared to ship, at your expense, the product which you claim failed due to a manufacturing defect and document the date of installation. Within a reasonable time after receiving the product, Viega will investigate the reasons for the failure, which includes the right to inspect the product at Viega. Viega will notify you in writing of the results of its review.

In the event that Viega determines that the failure or leak was the result of a manufacturing defect in the part covered by this warranty and that this warranty applies, the EXCLUSIVE AND ONLY REMEDY under this warranty shall be the reimbursement for repair and/or replacement of the part. VIEGA SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR OTHER DAMAGE (FOR EXAMPLE, WATER OR PROPERTY OR MOLD REMEDIATION) UNDER ANY LEGAL THEORY AND WHETHER ASSERTED BY DIRECT ACTION, FOR CONTRIBUTION OR INDEMNITY OR OTHERWISE.

THE ABOVE WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. If a limited warranty shall be found to apply, such warranty is limited to four years. Other than this Limited Warranty, Viega does not authorize any person or firm to create for it any other obligation or liability in connection with its products.

This Limited Warranty gives you specific legal rights and you also may have other rights which may vary from state to state. This warranty shall be interpreted and applied under the law of the state in which the product is installed and is intended as a Commercial Warranty.

\*Zero Lead identifies Viega® products meeting the lead free requirements of NSF 61-G through testing under NSF/ANSI 372 (0.25% or less maximum weighted average lead content).

**Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with our products' proper use and installation. Installation by non-professionals may void Viega LLC's warranty.**

This document subject to updates. For the most current Viega technical literature please visit [www.viega.us](http://www.viega.us).  
Click Services -> Click Electronic Literature Downloads -> Select Product Line -> Select Desired Document

**Viega LLC, 100 N. Broadway, 6<sup>th</sup> Floor • Wichita, KS 67202 • Ph: 800-976-9819 • Fax: 316-425-7618**