

# Submittal Package

**viega**

## 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, Smart Connect technology 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.

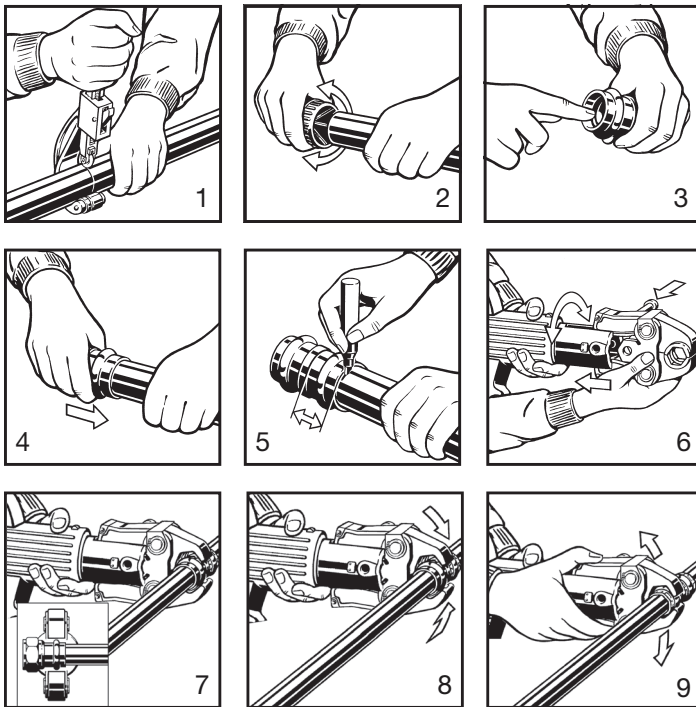
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## ProPress Product Instructions

### 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®:**

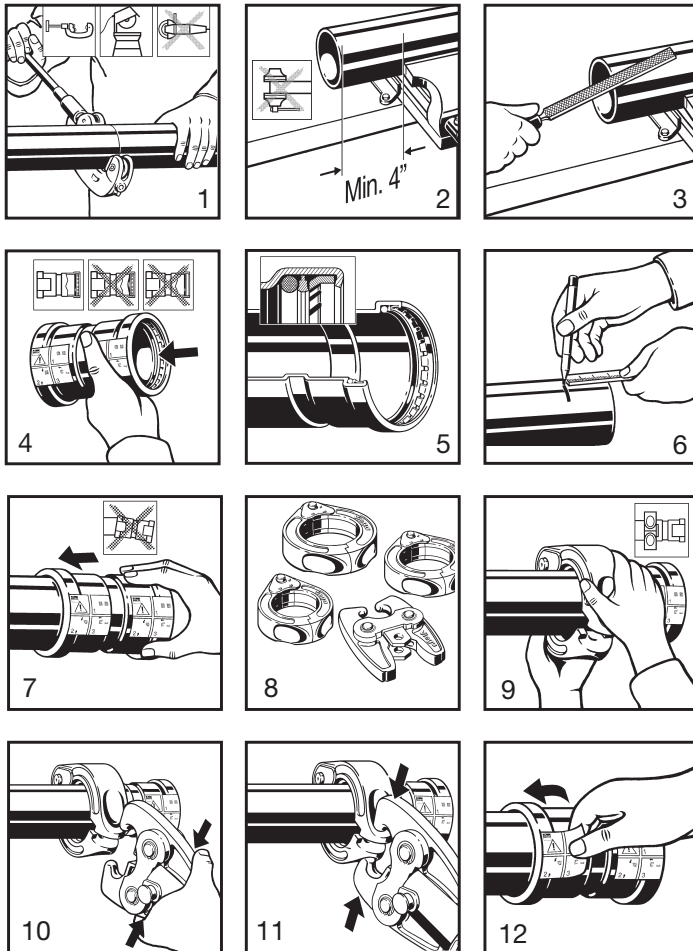
Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 psi to 85 psi maximum. Leak testing with air can be dangerous at high pressures. When testing with compressed air the proper pressure range is ½ psi to 45 psi maximum. 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	1 11/16"	1 15/16"	2 3/8"

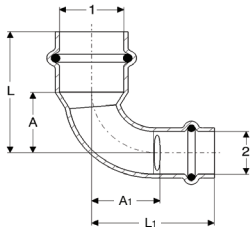
**⚠ WARNING** Read, understand and follow all instructions for installing ProPress XL (copper) fittings. Failure to follow all instructions may result in extensive property damage, serious injury or death.

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.

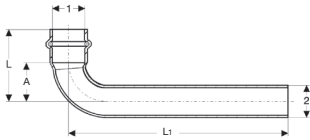
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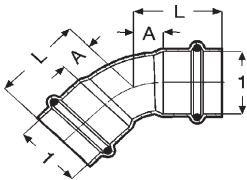
**Viega ProPress 90° Reducing Elbow Copper P x P - Model 2916.3**

Part No.	Size		A (in)	A1 (in)	L (in)	L1 (in)
	1	2				
77325	3/4" x 1/2"		0.91	0.94	1.81	1.69
77330	1" x 3/4"		1.20	1.30	2.11	2.21



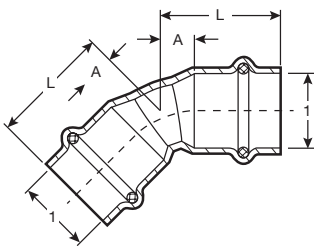
**Viega ProPress 90° Extended Street Elbow Copper P x FTG - Model 2947**

Part No.	Size		A (in)	L (in)	L1 (in)
	1	2			
77353	3/4" x 3/4"		1.02	1.93	5.98



**Viega ProPress 45° Elbow Copper P x P - Model 2926**

Part No.	Size		A (in)	L (in)
	1	1		
77607	1/2" x 1/2"		0.30	1.04
77612	3/4" x 3/4"		0.43	1.34
77617	1" x 1"		0.55	1.46
77622	1 1/4" x 1 1/4"		0.68	1.71
77627	1 1/2" x 1 1/2"		0.81	2.24
77632	2" x 2"		1.05	2.63



**Viega ProPress 45° Elbow Copper P x P - Model 2926 Short**

Part No.	Size		A (in)	L (in)
	1	1		
77607	1/2" x 1/2"		0.30	1.04
77023	3/4" x 3/4"		0.36	1.26
77028	1" x 1"		0.47	1.38
77033	1 1/4" x 1 1/4"		0.58	1.61
77038	1 1/2" x 1 1/2"		0.65	2.08
77043	2" x 2"		0.86	2.44