

Viega ProPress Systems



The global leader
in plumbing, heating
and pipe joining systems

viega

Viega ProPress Systems

Viega...

The global leader in plumbing, heating and pipe joining systems.

Building on Tradition

Founded more than 110 years ago, Viega is a privately owned, international group of companies. In the United States, Canada, Mexico and Latin America, Viega specializes in plumbing, heating and pipe joining technologies. The values of Viega's founder, Franz-Anselm Viegener, are just as present today as they were when he started the company in 1899. Courage, passion and innovative spirit are still the basics of Viega's foundation.

Viega ProPress Systems

Available in copper and two grades of stainless steel, Viega ProPress systems can help reduce installation time up to 60 percent compared to traditional methods of pipe joining. Soldering and welding copper or stainless pipe can be messy and time consuming, and connections are not always reliable. With Viega press technology, installers can make consistent, secure connections in less than seven seconds without flame or heavy equipment.

Available in multiple configurations from ½" to 4", Viega ProPress fittings are manufactured with the patented Viega Smart Connect® feature, the only guaranteed feature to detect unpressed fittings. Designed into the fitting itself, the Viega Smart Connect feature allows an unpressed fitting to leak during pressure testing, which helps installers easily identify connections that need to be pressed. From potable water to corrosive chemicals, Viega ProPress fittings in copper and stainless steel can be customized for a wide variety of applications in industrial, commercial or residential projects.

The term *Viega* does not apply to a specific company within the company as a whole. The term *Viega* can refer to either the Viega Group of Companies or to the Viega brand itself. The Viega Group of Companies includes Viega GmbH & Co. KG and all of its direct and indirect subsidiaries, each of which is separate and distinct.

Viega ProPress Systems

Table of contents

Introduction

Security under pressure	5
System data sheet	6
Product Instructions	8
Technical Information	11
Approved applications	13
Sealing element descriptions	14
Frequently Asked Questions	15

Viega ProPress

½" to 2" fittings dimensional documentation	17
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Viega ProPress

½" to 2" valves dimensional documentation	31
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Viega ProPress XL (Copper)

2½" to 4" fittings dimensional documentation	35
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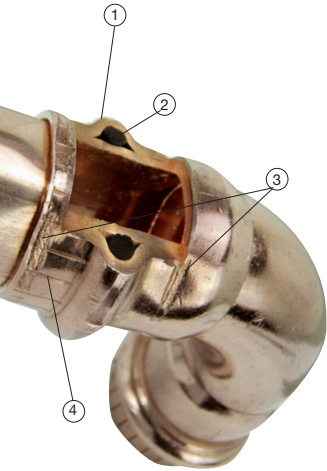
Viega ProPressG

½" to 2" fittings dimensional documentation	41
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Warranty

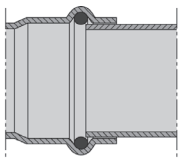
Viega limited warranty (covers Viega ProPress fittings and valves)	47
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**Safe, certain and secure, Viega fittings
are designed for peace of mind**

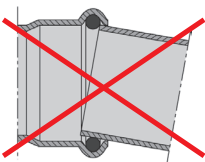


At Viega, safety is priority.

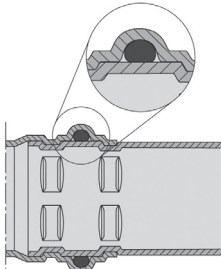
- 1** Viega's unique, patented Smart Connect feature helps installers ensure that they have pressed all connections.
- 2** Viega offers three different sealing elements to suit virtually any application: EPDM, HNBR and FKM.
- 3** Viega's distinctive hexagonal pressing pattern bonds fitting and pipe and provides the mechanical strength for the connection.
- 4** Viega fittings offer integral cylindrical pipe guides, which help installers ensure that the fitting is correctly inserted on the pipe.



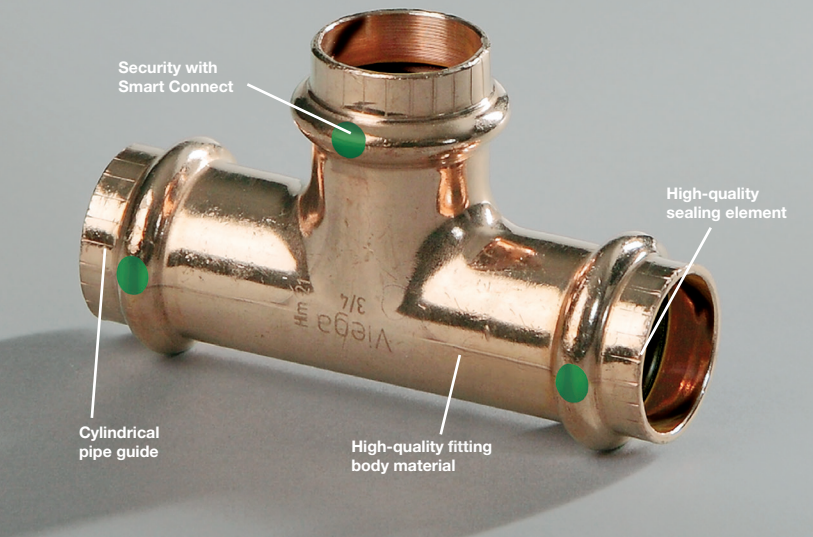
All Viega ProPress fittings are designed with cylindrical pipe guides to keep the pipe straight and protect the sealing element during assembly.



Fittings that do not have cylindrical pipe guides risk making an unsecure connection and leave the sealing element vulnerable to damage prior to pressing.



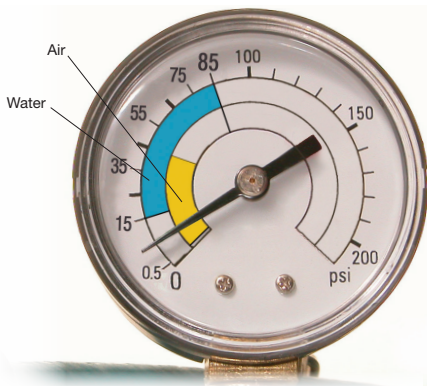
Viega fittings are pressed before, after and on top of the sealing element in a single step, which creates a permanent connection that is secure and guaranteed to last.



Security under pressure

Locating unpressed connections is an important step in the pressure testing process. Viega ProPress includes the Smart Connect feature, providing quick and easy identification of unpressed connections during the pressure testing process. The Smart Connect feature is an integral part of the design of the fitting that provides a path for liquids and/or gases from inside the system past the sealing element of an unpressed connection. When pressed according to our Product

Instructions, the Smart Connect feature is altered, creating a leak-proof, permanent connection. Unpressed connections are located by pressurizing the system with air or water. When testing with water the proper pressure range is 15 to 85 psi maximum. Pressure testing with air can be dangerous at high pressures. When testing with compressed air the proper pressure range is ½ to 45 psi maximum. Following a successful Smart Connect test, the system may be pressure tested up to 600 psi maximum for water and 200 psi maximum for air if required by local code requirements.



Viega ProPress Systems

System data sheet

System Description

Viega ProPress and Viega ProPress XL (copper) are safe, reliable and economical copper pipe installation systems that use modern cold press connection technology for a wide assortment of more than 600 fittings in dimensions ranging from ½" to 4". ProPress utilizes an EPDM sealing element to provide permanent leak-proof connections.

Tubing: K, L and M hard copper tubing from ½" to 4" and soft copper tubing in ½" to 1¼" diameters.

Applications

All tubing must comply with the ASTM B88 standard. Viega 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.

Operating Parameters

Operating Pressure: 200 psi Max.
Test Pressure: 600 psi Max.
Low-Pressure Steam: 15 psi Max.
Vacuum: 29.2" Mercury Max. @ 68°F
Operating Temperature: 0°F to 250°F

Approved Applications

- Potable Water
- Chilled Water
- Non-medical Gases (140 psi maximum)
- Fire Sprinkler (175 psi maximum)
- Low Pressure Steam (15 psi maximum)
- Vacuum (29.2" Mercury maximum @ 68°F)
- Hydronic Heating (w/ Glycol)
- Compressed Air (200 psi max.)

System Benefits

- Fast and Easy to Use
- Flameless
- Permanent Connections
- Large Selection of Fittings from ½" to 4"
- Consistent Professional Appearance
- Less Equipment Required
- Environmentally Friendly Connection System
- Versatility of Fittings and Tools for Variety of Applications

Fittings

There are more than 600 Viega ProPress fittings including: Elbows, Couplings, Reducers, Tees, Reducing Tees, Threaded Adapters, Unions, Caps and Flanges. All threaded ½" - 2" fittings are bronze. Viega ProPress and Viega ProPress XL (copper) fittings conform to NSF 61 Annex G.

Smart Connect Feature

The Smart Connect feature is a special indentation in the inside surface of the fitting near the sealing element. This indentation assures identification of leakage of liquids and/or gases from inside the system past the sealing element of an unpressed connection. The indentation is removed during the pressing process, creating a leak-free, permanent connection. This feature provides quick and easy identification of connections that have not been pressed prior to putting the system into operation.

Tools

RIDGID offers pressing tools for connecting Viega ProPress fittings.

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

History

Viega ProPress has been used in Europe since the late 1980s and in the U.S. since the late 1990s for a variety of applications.

Warranty

Viega ProPress products carry a 50-year warranty against defects in material and workmanship. ProPress valves carry a 2-year warranty against defects in material and workmanship.

Listings and Certificates

- NSF 61G
- IAPMO PS117
- UL 213
- FM Class 1920
- ICC-ES PMG 1037
- CSA MSE-13
- ABS
- CRN QA4541.5

International Listings and Certificates

- Deutscher Verein des Gas- und Wasserfaches.e.V. (DVGW)
- Lloyd's Register (LLOYD'S)
- 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

Contact your local Viega representative for details on local approvals

For more information on RIDGID products, contact:

Ridge Tool Company
400 Clark Street, Elyria, Ohio 44036
Demos, Literature: 800-769-7743
Technical inquiries: 800-519-3456
Availability: 888-743-4333
Web: www.ridgid.com

Viega ProPressG Systems

System data sheet

System Description

The ProPressG system is a copper press connection system designed to meet the demands of natural gas and liquid propane gas in the vapor state as well as fuel oil systems. Press fittings are manufactured in copper, and fittings with NPT connections are manufactured in bronze. ProPressG utilizes an HNBR sealing element to provide permanent leak-proof connections in dimensions from ½" to 2".

Applications

Tubing: ProPressG is approved for use with hard copper tubing from ½" to 2" and soft copper tubing in ½" to 1¼" diameters. All tubing must comply with ASTM B88 standards. ProPressG fittings are also approved for installations in above- and below-ground applications.

Operating Parameters

Operating Pressure: 125 psi Max.
Test Pressure: 600 psi Max.
Operating Temperature: -40°F to 180°F

Approved Applications

- Natural Gas
- Liquid Propane Gas
- Mixed Fuel Gases (vapor state only)
- Manufactured Fuel Gases
- Butane
- Fuel Oil Heating Systems
- Carbon Dioxide CO₂ (dry)
- Vacuum 29.2" Mercury
- Diesel Fuel
- Motor Oil

Note: Systems must be installed per local code requirements. See approved applications bulletin for allowable temperature and pressure ranges.

System Benefits

- Fast and Easy to Use
- Permanent Connections
- Professional Appearance
- Less Equipment Required
- Environmentally Friendly

Fittings

Viega ProPressG fittings are currently offered in 90+ configurations. Fittings are provided with a factory-installed HNBR sealing element, yellow in color.

Smart Connect Feature

The Smart Connect feature is a special indentation in the inside surface of the fitting near the sealing element. This indentation assures identification of leakage of liquids and/or gases from inside the system past the sealing element of an unpressed connection. The indentation is removed during the pressing process, creating a leak-free, permanent connection. This feature provides quick and easy identification of connections that have not been pressed prior to putting the system into operation.

Tools

RIDGID offers press tools for connecting ProPressG fittings:

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

History

Viega ProPress has been used in Europe since the late 1980s and in the U.S. since the late 1990s for a variety of applications.

Warranty

Viega ProPress products carry a 50-year warranty against defects in material and workmanship.

Listings and Certificates

- ANSI LC4/CSA B6.32
- ICC-ES PMG 1036
- IAPMO/UPC LC-4

International Listings and Certificates

- Deutsch Verein des Gas-und Wasserfaches E.V. (DVGW)
- Lloyd's Register (LLOYD'S)
- Det Norske Veritas (DNV)
- Registro Italiano Navale (RINA)
- Bureau Veritas (BV)

Compliant with:

- IFGC International Fuel Gas Code
- NFPA 54/Z223.1 National Fuel Gas Code
- NFPA 58 Liquefied Petroleum Gas Code
- UPC Chapter 12 Fuel Piping
- NFPA 30 Flammable and Combustible Liquids code
- NFPA 30A Code for Motor Fuel Dispensing Facilities and Repair Garages
- NFPA 31 Standard for the Installation of Oil-Burning Equipment (supply line only)

Contact your local Viega representative for details on local approvals

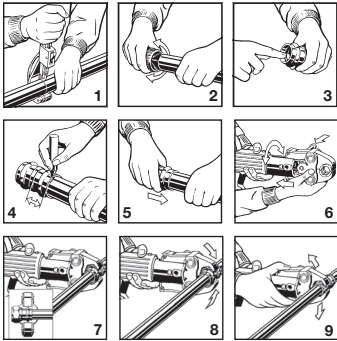
For more information on RIDGID products, contact:

Ridge Tool Company
400 Clark Street, Elyria, Ohio 44036
Demos, Literature: 800-769-7743
Technical inquiries: 800-519-3456
Availability: 888-743-4333
Web: www.ridgid.com

Viega ProPress Systems

Product Instructions

For Types K, L and M Hard Copper Tubing in ½" to 2" and Soft Copper Tubing in ½" to 1¼".
This Product Contains Zero Lead



Viega ProPress Insertion Depth Chart						
Tube Size	½"	¾"	1"	1¼"	1½"	2"
Insertion Depth	¾"	7⁄8"	7⁄8"	1"	1 1⁄16"	1 9⁄16"

⚠ 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.

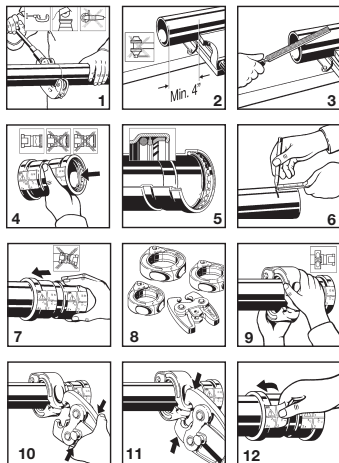
When testing with water the proper pressure range is 15 psi to 85 psi maximum. Leak testing with air can be dangerous at high

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.

Viega ProPress XL (Copper) System

Product Instructions

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	1¾"	17⁄8"	23⁄8"

⚠ 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.

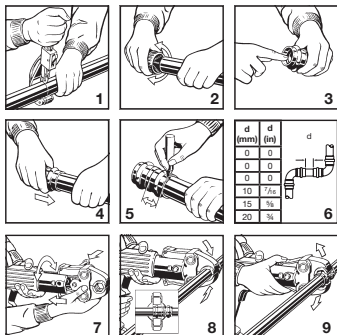
1. Cut copper tubing at right angles using displacement-type cutter or fine-toothed steel saw.
2. Keep end of tubing a minimum of 4" away from the contact area of the vise to prevent possible damage to the tubing in the press area.
3. Remove burr from inside and outside of tubing to prevent cutting sealing 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 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.

Viega ProPressG Systems

Product Instructions

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"	1 1/16"	1 1/8"



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 if required by local code requirements or project specifications.

⚠ WARNING Read and understand all instructions for installing Viega ProPressG fittings for fuel gas. Failure to follow all instructions may result in significant property damage, serious injury, or death.

1. Cut copper tubing at right angles (using displacement type cutter or fine-toothed steel saw).
2. Deburr tubing on inside and outside.
3. Check seal for correct fit. Do not use oils or lubricants. Use only Viega ProPress Yellow HNBR sealing elements.
4. While turning slightly, slide press fitting onto tubing to the fitting stop. **NOTE:** End of tubing must stop.
5. Mark insertion depth.
6. Minimum distance between two Viega ProPress press connections.
7. Insert the appropriate jaw into the tool and secure with the holding pin. Rotate tool head into desired position.
8. Open the jaw and place on the press fitting at right angles. Check insertion depth, start pressing process and hold the trigger until the jaw has engaged the fitting.
9. On completion of the pressing process, the jaw can be opened again.

⚠ WARNING The following standards, codes and instructions should be followed when installing Viega ProPressG fittings for Fuel Gas.

- The installation shall be made in accordance with local codes, or, in the absence of local codes, in accordance with the National Fuel Gas Code, NFPA 54, the LP- Gas Code NFPA 58, as applicable.
- For use with type K or L copper tubing, drawn copper from ½" to 2", and annealed copper from ½" to 1¼". All copper must be in compliance with ASTM B-88.
- The fittings are for use with fuel gases only and are intended for operating pressure specified (Maximum 125 PSI).
- Undue stress or strain on the fittings and the tubing is to be avoided.
- Concealed tubing and fittings shall be protected from puncture threats.
- If the installation requires components in addition to those supplied by the fitting manufacturer, those components shall be specified. The instructions shall state that only the components provided or specified by the manufacturer are to be used in the installation.
- The fitting/tubing system shall not be used as a grounding electrode for an electrical system.
- The inspection, testing and purging of the installation shall be performed using procedures specified in Part 4 of the National Fuel Gas Code, ANSI Z223.1, the LP-Gas Code NFPA 58 section 3.2-10 as applicable, or in accordance with the requirements of the applicable local codes.
- For use with, natural, propane, mixed, and manufactured gases in the vapor state not in the liquid state.
- The fitting/tubing system shall not be used as a means of support.

Viega ProPress Systems

Technical Information

Friction Loss Allowances

Wrought — Copper Fittings						
Size	90° Elbow	45° Elbow	Tee Run	Outlet	90° Bend	180° Bend
½"	½	½	½	1	½	1
¾"	1	½	½	2	1	2
1"	1	1	½	3	2	2
1¼"	2	1	½	4	2	3
1½"	2	2	1	5	2	4
2"	2	2	1	7	3	8
2½"	2	3	2	9	4	16
3"	3	4	—	—	5	20
4"						

Cast — Copper Alloy Fittings				
Size	90° Elbow	45° Elbow	Tee Run	Outlet
½"	1	½	½	2
¾"	2	1	½	3
1"	4	2	½	5
1¼"	5	2	1	7
1½"	8	3	1	9
2"	11	5	2	12

Viega ProPress fittings may be used with types K, L and M hard copper tubing from ½" to 4" and soft copper tubing from ½" to 1¼" diameter. All tubing must comply with the ASTM B88 standard and be free from surface defects. Viega 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.

Viega ProPress Systems

Minimum clearance between Viega press connections

Viega ProPress — ½" to 2"	
Tubing Diameter	Minimum Clearance
½"	0"
¾"	0"
1"	0"
1¼"	⅜"
1½"	⅝"
2"	¾"

Viega ProPress XL (Copper) — 2½" to 4"	
Tubing Diameter	Minimum Clearance
2½"	⅝"
3"	⅝"
4"	⅝"

Insertion Depths

Viega ProPress and Viega ProPressG — ½" to 2"	
Tubing Diameter	Insertion Depth
½"	¾"
¾"	⅞"
1"	⅞"
1¼"	1"
1½"	1⅞"
2"	1⅞"

Viega ProPress XL (Copper) — 2½" to 4"	
Tubing Diameter	Insertion Depth
2½"	1⅞"
3"	1⅞"
4"	2⅞"

Viega ProPress Systems

Approved applications

Types of Service	System Operating Conditions			Viega ProPress	Viega ProPressG	Specialty Seals Field Installed
	Comments	Pressure	Temperature	EPDM	HNBR	FKM
Fluids/Water						
Hot & Cold Potable Water	UPC and IMC regulate potable water temperature to 120°F for bathing purposes	200 psi	32°F to 250°F	√		
Rainwater/ Greywater		200 psi		√	√	√
Fire Sprinkler	Compliant with UL, FM with EPDM only	175 psi		√		√
Chilled Water	Ethylene Glycol / Propylene Glycol	200 psi	Down to -4°F	√		√
Hydronic Heating	Ethylene Glycol / Propylene Glycol	200 psi	Up to 250°F	√		√
Low-Pressure Steam		Up to 15 psi	248°F	√		√
Oil and Lubricant						
Heating Fuel Oil		125 psi	-40°F to 180°F Ambient		√	
Diesel Fuel	Compliant with NFPA 30 and 30A	125 psi			√	
Ethanol	Pure grain alcohol			√		
Gases						
Compressed Air	Less than 25mg/m ³ oil content	200 psi	Up to 140°F	√	√	√
Compressed Air	More than 25mg/m ³ oil content	200 psi	Up to 140°F		√	√
Natural Gas	Compliant with CSA LC4	125 psi	-40° to 180°F Ambient		√	
Liquid Propane Gas, Liquid Butane Gas	Compliant with CSA LC4	125 psi	-40° to 180°F Ambient		√	
Oxygen - O ₂ (non medical)	Keep oil and fat free / non liquid O ₂	140 psi	Up to 140°F	√	√	
Nitrogen - N ₂		200 psi	Up to 140°F	√	√	
Carbon Dioxide - CO ₂	Dry	200 psi	Up to 140°F	√	√	
Argon		200 psi	Up to 140°F	√	√	
Hydrogen - H		125 psi	Up to 140°F	√	√	
Vacuum		Max. 29.2 inches of Mercury		√	√	√
Notes: FKM sealing elements not compatible with XL (copper) fittings. 1. All systems are recommended to be clearly labeled with the fluid or gas being conveyed. For further information please consult the Viega Technical Support Department. 2. Consult the Viega Technical Support Department for information on applications not listed and applications outside the temperature and pressure ranges listed above.						

Viega ProPress Systems

Sealing element descriptions

EPDM Sealing Element

Viega ProPress / Viega ProPress XL press fittings are manufactured with a high-quality EPDM sealing element installed at the factory. This sealing element is used mainly in the applications of potable water, hydronic heating, low-pressure steam, fire sprinkler, and compressed air installations.

Definition: EPDM

Ethylene-propylene-diene-monomer unvulcanized gloss black in color

Maximum Pressure: 200 psi

Operating Temperature:

0°F to 250°F

The EPDM sealing element is a synthetically manufactured and peroxidically cross-linked general purpose unvulcanized rubber with a wide range of applications. It possesses excellent resistance to aging, ozone, sunlight, weathering, environmental influences, alkalis and most alkaline solutions and chemicals used in a broad range of applications.

The EPDM sealing element has particularly good resistance to hot water, making it ideal for seals and gaskets in heating systems, fittings and household appliances (e.g. washing machines, pumps, dishwashers).

The EPDM sealing element is recommended for drinking water applications. It is not resistant against hydrocarbon solvent solutions, related oils, chlorinated hydrocarbons, turpentine and gasoline.

FKM Sealing Element

The EPDM sealing element installed at the factory can be removed from the Viega ProPress ½" to 2" press fittings in the field and replaced with the appropriate size FKM sealing element.

FKM sealing elements are recommended for use in solar heating systems, which may experience temperature spikes up to 356°F.

Definition: FKM

Fluoroelastomer flat black in color

Maximum Pressure: 200 psi

Operating Temperature:

0°F to 284°F
(or higher, for brief periods)

FKM is well known for its excellent resistance to petroleum products and solvents as well as excellent high-temperature performance. The FKM sealing element is a specialty purpose rubber-sealing element typically installed where higher temperatures and pressures are required.

It possesses excellent resistance to aging, ozone, sunlight, weathering, environmental influences, oils and petroleum-based additives. Its excellent resistance to high temperatures and petroleum-based additives makes it ideal for seals and gaskets in solar, district heating, low-pressure steam and compressed air system fittings.

The FKM sealing element is not suitable for food contact applications and cannot be installed in drinking water applications, natural gas, LP gas, mixed gases or fuel oil systems.

It is not resistant against polar solvents, amines, anhydrous ammonia, SKYDROL, hydrazine and hot acids.

HNBR Sealing Element

Viega ProPressG press fittings are manufactured with a high-quality HNBR sealing element installed at the factory. This sealing element is used mainly for applications of natural, propane, mixed and manufactured gases in the vapor state, not in the liquid state. It is commonly used in fuel oil heating systems.

Definition: HNBR

Hydrogenated Nitrile Butadiene Rubber yellow in color

Maximum Pressure: 125 psi

Ambient Operating Temperature:

-40°F to 180°F

HNBR is widely known for its physical strength and retention of properties after long-term exposure to heat, oil and chemicals.

The unique properties attributed to HNBR have resulted in wide adoption of HNBR in automotive, industrial and assorted performance-demanding applications (i.e. engine seals, grommets and gaskets; fuel system seals and hoses; transmission system bonded piston seals; Chevron seals, oil field packers and rotary shaft seals).

With its excellent performance for the most demanding of applications, HNBR is the ideal choice for applications needing excellent physical properties, as well as oil, heat and/or chemical resistance. The HNBR sealing element is not suitable for food contact applications and cannot be installed in drinking water applications.

Viega ProPress Systems

Frequently Asked Questions

Q What does "Zero Lead" mean?

A "Zero Lead" identifies Viega products meeting the lead free requirements of the federal amendment to the Safe Drinking Water Act effective Jan. 4, 2014.

Q What does "Lead Free" mean?

A California AB 1953 defines "Lead Free" as materials containing not more than 0.2 percent lead when used with respect to solder and flux and not more than a weighted average of 0.25 percent when used with respect to the wetted surfaces of pipes and pipe fittings, plumbing fittings and fixtures, providing a specified definition and formula for determining "weighted average."

Q What is NSF-61 Annex G (NSF 61 G)?

A NSF-61 Annex G is an optional evaluation method for products that need to meet a 0.25% weighted average lead content standard. Certification of products to this annex shall be noted in the certification listing. Products must first comply with the full requirements of NSF/ANSI 61 in order to be deemed compliant to this section.

Q What is a wetted surface?

A "Wetted surface" refers to any and all parts of a valve or fitting that are directly in contact with potable water.

Q Are any of Viega's ProPress valves and fittings "Lead Free"?

A Yes. Viega ProPress fittings and valves are available with Zero Lead and are listed to NSF 61 Annex G, with the exception of the Hydronic Ball Valve models 2973.

Q What alloys are used to produce Viega ProPress Zero Lead bronze fittings?

A Viega ProPress Zero Lead bronze fittings are constructed from Viega's own silicon bronze alloy: UNS C87700

Q What is the warranty for Viega ProPress Zero Lead fittings?

A Viega ProPress fittings carry a 50-year warranty against defects in material and workmanship from Viega.

Q What is the procedure for soldering near a Viega ProPress connection?

A When soldering near a Viega ProPress connection, you must remain at least three pipe diameters away from the connection. If three pipe diameters are not possible, the installer should take proper precautions to keep the Viega ProPress connection cool while soldering. These include: wrapping the connection with a cold wet rag; fabricating solder connections prior to installing the pressed fitting; making sure the pipe has cooled before installing the fitting; applying "spray type" spot freezing product.

Q How would inspectors know they are looking at a good connection?

A Good connections can be proven by performing a pressure test. This is the same procedure for solder connections.

Q What is the lubrication used on the sealing elements?

A The sealing elements are lubricated with an NSF-61 approved silicone oil. If it is necessary to lubricate the seals in the field, use water only. Do not use other lubricants, especially any petroleum-based lubricants, as petroleum and EPDM are incompatible.

Q How long will the EPDM seal last?

A When properly installed, the EPDM seal and connection will last as long as the copper pipe that joins it, 50 years.

Q How do I fabricate a system in tight places when using Viega ProPress?

A If necessary, pre-fabricate connections that are in tight places and then install.

Q Can you turn a pressed fitting without damaging the integrity of the connection?

A Yes. The fitting can be turned, although not by hand, and will not affect the integrity of the connection. As a general rule of thumb, if the fitting is turned more than 5° it must be repressed to restore the resistance to rotational movement.

Q How do Viega ProPress connections hold up to freezing temperatures?

A Copper water systems, both soldered and pressed, should not be allowed to freeze. When water freezes it expands and will damage the pipe or the system.

Continued on next page.

Viega ProPress Systems

Frequently Asked Questions

Continued from previous page.

Q Can a user solder the female "P" end of a Viega ProPress fitting?

A This is not a recommended practice and constitutes improper use of the product, voiding any product warranties. The recessed groove that normally houses the EPDM seal will interfere with the capillary action that normally draws solder into and around the tubing.

Q What are the flow rates through Viega ProPress fittings?

A Flow rates and flow rate calculations are the same as those used for solder fitting installations. The friction loss allowance table can be found in the Technical Information section of this manual.

Q Why use FKM or HNBR sealing elements for compressed air systems with more than 25 grams per cubic foot of oil content?

A FKM and HNBR sealing elements are better suited for high oil content due to their high resistance to hydrocarbon substances.

Q Can both Viega ProPress and Viega ProPressG fittings be used in the same installation?

A Yes. Both fittings can be used in the same installation as long as both fittings are approved for that particular application.

Q What should a user do if a Viega ProPress system leaks?

A In general, Viega ProPress fittings only leak due to one of three reasons: the fitting was never pressed, the copper tubing was not properly inserted or the pressing jaws were not properly aligned. If the fitting was never pressed, confirm that the tubing is properly installed and proceed with pressing. If the copper tubing was not properly inserted, cut out the fitting and reinstall properly. If the pressing jaws were not properly aligned, cut out the fitting and reinstall properly. If problems persist, be sure to contact Viega immediately.

Q Is Viega ProPress compatible with the cleaning agents used to disinfect a new plumbing system?

A Yes. However, it is recommended to contact your local District Manager or the Viega Technical Support Department for consultation.

Q What should be done if a user accidentally cuts the seal with the copper tubing?

A If the seal is damaged by inserting the copper tubing, the seal must be replaced. Please note that the tolerances of the fitting socket ensure that the tubing is inserted at the appropriate angle. If a chop saw is used to cut the tubing, deburr the tubing before insertion into the fitting. This will prevent damage to the seal.

Q Is Viega ProPress approved for underground use?

A Yes. Viega ProPress can be installed underground. However, users must obtain approval from the authority having jurisdiction. Approval of this application is based upon performance testing conducted by NSF, which includes withstanding pressure, temperature, water hammer, bending forces, torsion, temperature variation, vibration and vacuum.

Q What is the Smart Connect feature?

A The Smart Connect feature provides a quick and easy way to identify unpressed connections during the pressure testing process. Unpressed connections are located by pressurizing the system with air or water. When testing with air, the pressure range is ½ psi to 45 psi maximum. When testing with water, the pressure range is 15 psi to 85 psi maximum. The Smart Connect feature is removed during the pressing process, creating a leak-proof, permanent connection. Guaranteed.

Q Why is the Smart Connect feature so valuable?

A The Smart Connect feature provides the user with a strong peace of mind. It allows for faster testing procedures since you do not have to shut down and drain the system. Costly damages and possible insurance claims and premiums can be avoided because it identifies unpressed connections before they can become a problem. Because of the time savings, projects stay on track.

Q If a leak is discovered, is it necessary to drain the system prior to pressing the connection?

A No. It is not necessary to drain the system when making a repair.

Viega ProPress

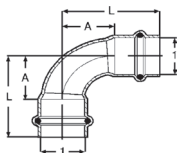
1/2" to 2" fittings

Dimensional documentation



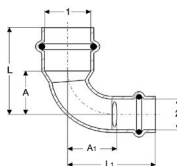
Viega ProPress 1/2" to 2"

Dimensional documentation (inches)



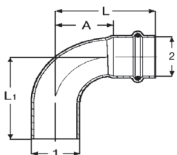
Copper 90° Elbow P x P - Model 2916

Part No.	Size	A (in)	L (in)
	1		
77317	1/2"	0.75	1.50
77322	3/4"	1.04	1.94
77327	1"	1.32	2.23
77332	1 1/4"	1.65	2.68
77337	1 1/2"	1.98	3.40
77342	2"	2.54	4.13



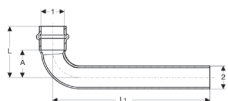
Copper 90° Reducing Elbow P x P - Model 2916.3

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)
	1 2				
77325	3/4" x 1/2"	0.91	0.95	1.81	1.69
77330	1" x 3/4"	1.21	1.30	2.11	2.21



Copper 90° Elbow FTG x P - Model 2916.1

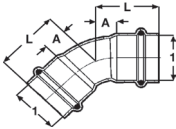
Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
77347	1/2" x 1/2"	0.75	1.50	1.54
77352	3/4" x 3/4"	1.04	1.94	1.98
77357	1" x 1"	1.32	2.23	2.27
77362	1 1/4" x 1 1/4"	1.65	2.68	2.76
77367	1 1/2" x 1 1/2"	1.98	3.40	3.48
77372	2" x 2"	2.54	4.13	4.21



Copper 90° Elbow P x FTG - Model 2947

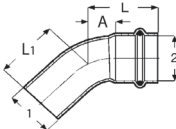
Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
77353	3/4" x 3/4"	1.02	1.93	5.98

Viega ProPress 1/2" to 2"



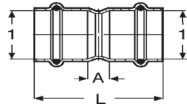
Copper 45° Elbow P x P - Model 2926

Part No.	Size	A (in)	L (in)
	1		
77607	1/2"	0.30	1.04
77612	3/4"	0.43	1.34
77617	1"	0.55	1.46
77622	1 1/4"	0.68	1.71
77627	1 1/2"	0.82	2.24
77632	2"	1.05	2.63



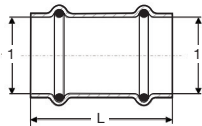
Copper 45° Elbow FTG x P - Model 2926.1

Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
77637	1/2" x 1/2"	0.31	1.06	1.10
77642	3/4" x 3/4"	0.43	1.34	1.37
77647	1" x 1"	0.55	1.46	1.49
77652	1 1/4" x 1 1/4"	0.68	1.71	1.79
77657	1 1/2" x 1 1/2"	0.82	2.24	2.32
77662	2" x 2"	1.05	2.63	2.71



Copper Coupling P x P with Stop - Model 2915

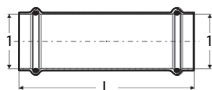
Part No.	Size	A (in)	L (in)
	1		
78047	1/2"	0.12	1.61
78052	3/4"	0.20	2.01
78057	1"	0.16	1.97
78062	1 1/4"	0.14	2.21
78067	1 1/2"	0.14	2.99
78072	2"	0.14	3.31



Copper Coupling P x P No Stop - Model 2915.3

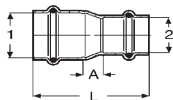
Part No.	Size	L (in)
	1	
78172	1/2"	1.61
78177	3/4"	2.01
78182	1"	1.97
78187	1 1/4"	2.21
78192	1 1/2"	2.99
78197	2"	3.31

Viega ProPress 1/2" to 2"



Copper Extended Coupling P x P No Stop - Model 2915.5

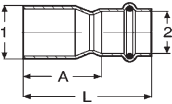
Part No.	Size	L (in)
	1	
79005	1/2"	2.99
79010	3/4"	3.50
79015	1"	3.74
79020	1 1/4"	4.13
79025	1 1/2"	4.72
79030	2"	5.32



Copper Reducer P x P - Model 2915.2

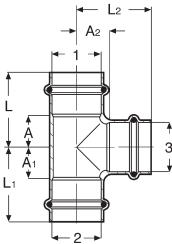
Part No.	Size	A (in)	L (in)
	1 2		
78147	3/4" x 1/2"	0.42	2.07
15603	1" x 1/2"	0.71	2.36
78152	1" x 3/4"	0.48	2.29
15593	1 1/4" x 3/4"	0.70	2.64
78157	1 1/4" x 1"	0.55	2.48
18473	1 1/2" x 3/4"	0.98	3.33
15588	1 1/2" x 1"	0.74	3.07
78162	1 1/2" x 1 1/4"	0.50	2.96
18468	2" x 3/4"	1.54	4.02
15608	2" x 1"	1.29	3.78
22328	2" x 1 1/4"	0.81	3.43
78167	2" x 1 1/2"	0.74	3.75

Viega ProPress 1/2" to 2"



Copper Reducer FTG x P - Model 2915.1

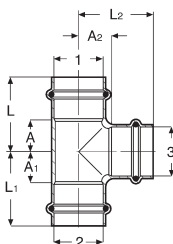
Part No.	Size		A (in)	L (in)
	1	2		
78077	3/4"	x 1/2"	1.42	2.17
78082	1"	x 1/2"	1.69	2.44
78087	1"	x 3/4"	1.42	2.32
22333	1 1/4"	x 1/2"	1.89	2.64
78092	1 1/4"	x 3/4"	1.85	2.76
78097	1 1/4"	x 1"	1.58	2.48
14543	1 1/2"	x 3/4"	2.56	3.47
78102	1 1/2"	x 1"	2.28	3.19
78107	1 1/2"	x 1 1/4"	2.04	3.07
78112	2"	x 1"	3.03	3.94
78117	2"	x 1 1/4"	2.79	3.82
78122	2"	x 1 1/2"	2.63	4.06



Copper Tee P x P x P - Model 2918

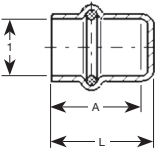
Part No.	Size			A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1	2	3						
77377	1/2"			0.75	0.75	0.50	1.50	1.50	1.25
77382	1/2"	x 1/2"	x 3/4"	0.91	0.91	0.59	1.65	1.65	1.50
15493	1/2"	x 1/2"	x 1"	1.10	1.10	0.55	1.85	1.85	1.46
77387	3/4"			0.85	0.85	0.59	1.75	1.75	1.50
77392	3/4"	x 1/2"	x 1/2"	0.69	0.98	0.63	1.59	1.73	1.38
77397	3/4"	x 1/2"	x 3/4"	0.85	1.14	0.59	1.75	1.89	1.50
77402	3/4"	x 3/4"	x 1/2"	0.69	0.69	0.63	1.59	1.59	1.38
77407	3/4"	x 3/4"	x 1"	0.97	0.97	0.63	1.87	1.87	1.54
77412	1"			0.97	0.97	0.79	1.87	1.87	1.69
22263	1"	x 1/2"	x 3/4"	0.85	1.24	0.75	1.76	1.99	1.66
94767	1"	x 1/2"	x 1"	0.97	1.52	0.79	1.87	2.26	1.69
77417	1"	x 3/4"	x 1/2"	0.69	0.89	0.79	1.59	1.79	1.54
77422	1"	x 3/4"	x 3/4"	0.85	1.04	0.75	1.75	1.95	1.65
77427	1"	x 3/4"	x 1"	0.97	1.18	0.78	1.87	2.07	1.69
77432	1"	x 1"	x 1/2"	0.69	0.69	0.79	1.59	1.59	1.54
77437	1"	x 1"	x 3/4"	0.85	0.85	0.75	1.75	1.75	1.65
15488	1"	x 1"	x 1 1/4"	1.16	1.16	0.84	2.07	2.07	1.87
77442	1 1/4"			1.02	1.02	0.86	2.05	2.05	1.89
Continued on next page									

Viega ProPress 1/2" to 2"



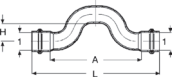
Copper Tee P x P x P - Model 2918 (continued)									
Part No.	Size			A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1	2	3						
22253	1¼" x ½" x 1¼"			1.02	1.77	0.87	2.05	2.52	1.89
22243	1¼" x ¾" x ½"			0.64	1.13	0.93	1.68	2.03	1.68
22258	1¼" x ¾" x ¾"			0.76	1.30	0.87	1.80	2.21	1.78
22268	1¼" x ¾" x 1"			0.88	1.40	0.91	1.91	2.31	1.82
22248	1¼" x ¾" x 1¼"			1.02	1.54	0.86	2.05	2.45	1.89
22238	1¼" x 1" x ½"			0.64	0.91	0.93	1.68	1.82	1.68
94762	1¼" x 1" x ¾"			0.76	1.14	0.87	1.79	2.05	1.77
14568	1¼" x 1" x 1"			0.88	1.28	0.91	1.91	2.19	1.81
94757	1¼" x 1¼" x ½"			0.65	0.65	0.93	1.67	1.67	1.67
77452	1¼" x 1¼" x ¾"			0.77	0.77	0.89	1.79	1.79	1.77
77447	1¼" x 1¼" x 1"			0.88	0.88	0.90	1.91	1.91	1.81
77457	1½"			1.13	1.13	1.13	2.56	2.56	2.56
79660	1½" x 1" x ¾"			0.67	1.39	1.16	2.17	2.44	2.05
15458	1½" x 1" x 1"			0.74	1.54	1.06	2.17	2.44	1.97
15463	1½" x 1" x 1½"			1.13	1.83	1.13	2.56	2.74	2.56
22233	1½" x 1¼" x ¾"			0.67	1.08	1.15	2.09	2.11	2.05
15453	1½" x 1¼" x 1"			0.74	1.29	1.18	2.17	2.32	2.09
15483	1½" x 1¼" x 1¼"			0.86	1.33	1.13	2.28	2.36	2.17
15448	1½" x 1½" x ½"			0.47	0.47	1.10	1.89	1.89	1.85
77462	1½" x 1½" x ¾"			0.66	0.66	1.14	2.09	2.09	2.05
77467	1½" x 1½" x 1"			0.74	0.74	1.18	2.17	2.17	2.09
77472	1½" x 1½" x 1¼"			0.86	0.86	1.13	2.28	2.28	2.17
77477	2"			1.37	1.37	1.37	2.95	2.95	2.95
15518	2" x 1¼" x 1¼"			0.94	1.84	1.33	2.52	2.87	2.36
15513	2" x 1½" x ¾"			0.70	1.25	1.38	2.28	2.68	2.28
15498	2" x 1½" x 1"			0.82	1.45	1.38	2.40	2.87	2.28
15508	2" x 1½" x 1¼"			0.94	1.55	1.49	2.52	2.97	2.52
15503	2" x 1½" x 1½"			1.13	1.65	1.37	2.72	3.07	2.80
22228	2" x 1½" x 2"			1.38	1.89	1.38	2.95	3.33	2.95
15538	2" x 2" x ½"			0.54	0.54	1.30	2.13	2.13	2.05
94777	2" x 2" x ¾"			0.79	0.79	1.26	2.37	2.37	2.17
94772	2" x 2" x 1"			0.91	0.91	1.30	2.49	2.49	2.21
77487	2" x 2" x 1¼"			1.04	1.04	1.37	2.62	2.62	2.40
77482	2" x 2" x 1½"			1.13	1.13	1.37	2.72	2.72	2.80

Viega ProPress 1/2" to 2"



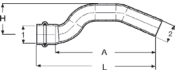
Copper Cap P - Model 2956

Part No.	Size	A (in)	L (in)
	1		
77712	1/2"	0.79	0.92
77717	3/4"	0.94	1.07
77722	1"	0.99	1.11
77727	1 1/4"	1.20	1.32
77732	1 1/2"	1.49	1.62
77737	2"	1.69	1.81



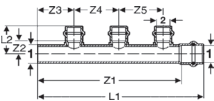
Copper Cross-Over P x P - Model 2928

Part No.	Size	A (in)	L (in)	H (in)
	1			
77742	1/2"	3.62	5.12	0.77
77747	3/4"	4.49	6.30	0.90



Copper Cross-Over FTG x P - Model 2927

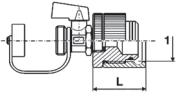
Part No.	Size	A (in)	L (in)	H (in)
	1 2			
78137	1/2" x 1/2"	3.84	4.59	1.20
78142	3/4" x 3/4"	4.64	5.54	1.54



Copper ProPress Manifold 3-Outlets (open) P x FTG x P - Model 2945

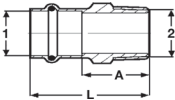
Part No.	Size	L1 (in)	L2 (in)	Z1 (in)	Z2 (in)	Z3 (in)	Z4 (in)	Z5 (in)
	1 2							
65803	1" x 1/2"	7.32	1.51	6.38	0.77	1.65	1.97	1.97

Viega ProPress 1/2" to 2"



Bronze Pressure Test Plug - Model 2969

Part No.	Size	L (in)
	1	
78202	1/2"	1.64
78207	3/4"	1.65

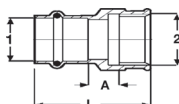


Bronze Adapter P x MPT - Model 2911ZL

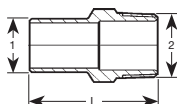
Part No.	Size	A (in)	L (in)
	1 2		
79210	1/2" x 3/8" MPT	0.77	1.59
79215	1/2" x 1/2" MPT	0.89	1.71
79220	1/2" x 3/4" MPT	1.00	1.83
79225	3/4" x 1/2" MPT	1.02	1.93
79230	3/4" x 3/4" MPT	1.02	1.93
79235	3/4" x 1" MPT	1.18	2.09
79240	1" x 3/4" MPT	1.18	2.09
79245	1" x 1" MPT	1.26	2.17
79250	1" x 1 1/4" MPT	1.54	2.44
79255	1 1/4" x 1" MPT	1.22	2.24
79260	1 1/4" x 1 1/4" MPT	1.34	2.36
79265	1 1/4" x 1 1/2" MPT	1.48	2.50
79270	1 1/2" x 1 1/4" MPT	1.34	2.76
79275	1 1/2" x 1 1/2" MPT	1.28	2.70
79280	1 1/2" x 2" MPT	1.65	3.07
79285	2" x 1 1/2" MPT	1.54	3.11
79290	2" x 2" MPT	1.50	3.07

Viega ProPress ½" to 2"

Bronze Adapter P x FPT - Model 2912ZL



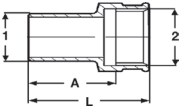
Part No.	Size	A (in)	L (in)
	1 2		
79295	½" x ⅜" FPT	0.19	1.42
79300	½" x ½" FPT	0.25	1.61
79305	½" x ¾" FPT	0.27	1.65
79310	¾" x ½" FPT	0.32	1.77
79315	¾" x ¾" FPT	0.35	1.81
79320	1" x ½" FPT	0.41	1.85
79325	1" x ¾" FPT	0.39	1.85
79330	1" x 1" FPT	0.44	2.01
79335	1" x 1¼" FPT	0.50	2.09
79340	1¼" x ½" FPT	0.37	1.93
79345	1¼" x 1" FPT	0.24	1.93
79350	1¼" x 1¼" FPT	0.34	2.05
79355	1¼" x 1½" FPT	0.42	2.13
79360	1½" x 1¼" FPT	0.26	2.36
79365	1½" x 1½" FPT	0.34	2.44
79370	2" x 2" FPT	0.41	2.68



Bronze Adapter FTG x MPT - Model 2911.1ZL

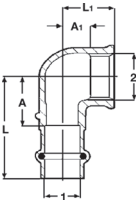
Part No.	Size	L (in)
	1 2	
79375	½" x ⅜" MPT	1.75
79380	½" x ½" MPT	1.95
79385	½" x ¾" MPT	2.05
79390	¾" x ½" MPT	1.93
79395	¾" x ¾" MPT	2.05
79400	1" x ¾" MPT	2.05
79405	1" x 1" MPT	2.22
79410	1¼" x 1¼" MPT	2.54
79415	1½" x 1½" MPT	2.89
79420	2" x 2" MPT	3.33

Viega ProPress 1/2" to 2"



Bronze Adapter FTG x FPT - Model 2912.1ZL

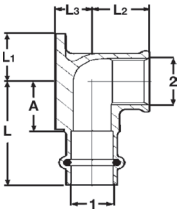
Part No.	Size	A (in)	L (in)
	1 2		
79425	1/2" x 3/8" FPT	1.13	1.54
79430	1/2" x 1/2" FPT	1.22	1.75
79435	1/2" x 3/4" FPT	1.28	1.83
79440	3/4" x 1/2" FPT	1.26	1.79
79445	3/4" x 3/4" FPT	1.28	1.83
79455	1" x 1/2" FPT	1.45	1.99
79450	1" x 1" FPT	1.33	1.99
79460	1 1/4" x 1/2" FPT	1.65	2.19
79465	1 1/4" x 1 1/4" FPT	1.50	2.19
79470	1 1/2" x 1 1/2" FPT	1.88	2.56
79475	2" x 2" FPT	2.26	2.95



Bronze 90° Elbow P X FPT - Model 2914.2ZL

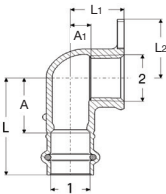
Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)
	1 2				
79520	1/2" x 3/8" FPT	0.95	0.42	1.77	0.83
79525	1/2" x 1/2" FPT	0.95	0.57	1.77	1.10
79530	1/2" x 3/4" FPT	1.06	0.51	1.89	1.06
79535	3/4" x 1/2" FPT	1.06	0.65	1.97	1.18
79540	3/4" x 3/4" FPT	1.06	0.57	1.97	1.12
79545	1" x 1/2" FPT	1.06	0.72	1.97	1.26
79550	1" x 1" FPT	1.34	0.76	2.24	1.42
79560	1 1/4" x 1 1/4" FPT	1.54	0.89	2.56	1.58
79565	1 1/2" x 1 1/2" FPT	1.69	1.05	3.11	1.73
79570	2" x 2" FPT	2.17	1.35	3.74	2.05

Viega ProPress 1/2" to 2"



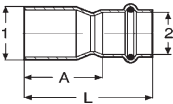
Bronze 90° Drop Ear Elbow P x FPT with Wall Plate - Model 2925.5ZL

Part No.	Size		A (in)	L (in)	L1 (in)	L2 (in)	L3 (in)
	1	2					
79185	1/2"	3/8" FPT	0.94	1.77	0.74	0.83	0.67
79190	1/2"	1/2" FPT	0.94	1.77	0.74	1.10	0.67
79195	3/4"	3/4" FPT	1.06	1.97	0.83	1.12	0.83



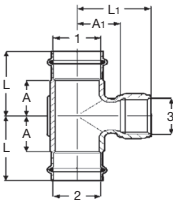
Bronze 90° Hi Ear Elbow P x FPT - Model 2925.2ZL

Part No.	Size		A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)
	1	2					
79205	1/2"	1/2" FPT	0.95	0.57	1.77	1.10	1.07



Bronze Reducer FTG x P - Model 2915.1ZL

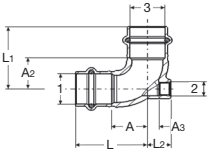
Part No.	Size		A (in)	L (in)
	1	2		
79850	1 1/2"	1/2"	1.95	2.78
79855	2"	1/2"	2.38	3.21
79860	2"	3/4"	2.42	3.33



Bronze Tee P x P x FPT - Model 2917.2ZL

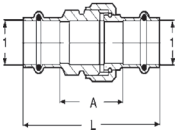
Part No.	Size			A (in)	A1 (in)	L (in)	L1 (in)
	1	2	3				
79580	1/2"	1/2" x 1/2" FPT		0.79	0.69	1.61	1.30
79585	3/4"	3/4" x 1/4" FPT		0.67	0.79	1.58	1.18
79590	3/4"	3/4" x 1/2" FPT		0.79	0.88	1.69	1.42
79595	3/4"	3/4" x 3/4" FPT		0.91	0.59	1.81	1.14
79760	1"	1" x 1/2" FPT		0.79	1.04	1.69	1.58
79765	1"	1" x 3/4" FPT		0.91	1.06	1.81	1.61
79770	1 1/4"	1 1/4" x 1/2" FPT		0.83	1.16	1.85	1.69
79775	1 1/4"	1 1/4" x 3/4" FPT		0.95	1.18	1.97	1.73
79780	1 1/2"	1 1/2" x 1/2" FPT		0.87	1.24	2.28	1.77
79785	1 1/2"	1 1/2" x 3/4" FPT		0.95	1.30	2.36	1.85
79790	2"	2" x 1/2" FPT		0.98	1.59	2.56	2.13
79795	2"	2" x 3/4" FPT		1.06	1.65	2.64	2.21

Viega ProPress 1/2" to 2"



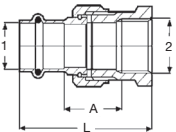
Bronze Vent Tee P x FPT x P - Model 2917.3ZL

Part No.	Size			A (in)	A2 (in)	A3 (in)	L (in)	L1 (in)	L2 (in)
	1	2	3						
79635	1/2"	1/8" FPT	1/2"	0.67	0.67	0.44	1.50	1.50	0.71
79640	3/4"	1/8" FPT	3/4"	0.83	0.83	0.54	1.73	1.73	0.81



Bronze Union P x P - Model 2960ZL

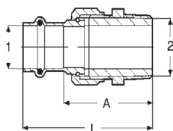
Part No.	Size		A (in)	L (in)
	1	2		
79125	1/2"		1.19	2.84
79130	3/4"		1.34	3.15
79135	1"		1.83	3.64
79140	1 1/4"		1.63	3.68
79145	1 1/2"		2.13	4.96
79150	2"		2.07	5.22



Bronze Union P x FPT - Model 2962ZL

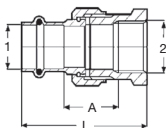
Part No.	Size		A (in)	L (in)
	1	2		
79700	1/2"	1/2" FPT	0.91	2.27
79705	3/4"	3/4" FPT	0.96	2.42
79710	1"	1" FPT	1.30	2.87
79715	1 1/4"	1 1/4" FPT	1.27	2.97
79720	1 1/2"	1 1/2" FPT	1.76	3.86
79725	2"	2" FPT	1.65	3.92

Viega ProPress 1/2" to 2"



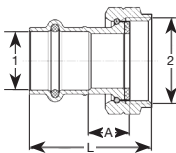
Bronze Union P x MPT - Model 2965ZL

Part No.	Size	A (in)	L (in)
	1 2		
79730	1/2" x 1/2" MPT	1.86	2.69
79735	3/4" x 3/4" MPT	2.00	2.90
79740	1" x 1" MPT	2.54	3.45
79745	1 1/4" x 1 1/4" MPT	2.49	3.52
79750	1 1/2" x 1 1/2" MPT	3.05	4.47
79755	2" x 2" MPT	2.99	4.57



Bronze Di-electric Union P x FPT - Model 2967ZL

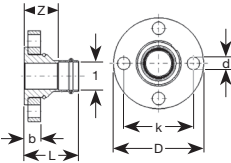
Part No.	Size	A (in)	L (in)
	1 2		
79155	1/2" x 1/2" FPT	0.88	2.24
79160	3/4" x 3/4" FPT	1.11	2.57
79165	1" x 1" FPT	1.00	2.57
79170	1 1/4" x 1 1/4" FPT	0.97	2.68
79175	1 1/2" x 1 1/2" FPT	1.01	3.11
79180	2" x 2" FPT	1.26	3.53



Bronze Tailpiece Adapter P x F Union - Model 2957ZL

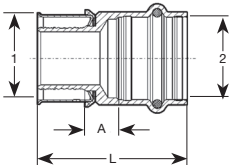
Part No.	Size	A (in)	L (in)
	1 2		
79800	1/2" x 1" BSP	0.34	1.58
79805	3/4" x 1" BSP	0.57	1.87
79810	1" x 1" BSP	0.84	2.14
79815	1" x 1 1/4" BSP	0.66	2.04

Viega ProPress 1/2" to 2"



Bronze Adapter Flange P x Flange - Model 2959.5ZL

Part No.	Size	L (in)	Z (in)	b (in)	D (in)	k (in)	d (in)
	1						
79680	1"	2.77	1.85	0.84	4.33	3.11	0.63
79685	1 1/4"	2.76	1.73	0.84	4.53	3.50	0.63
79690	1 1/2"	3.07	1.65	0.84	4.92	3.86	0.63
79695	2"	3.66	2.09	0.84	5.91	4.76	0.75



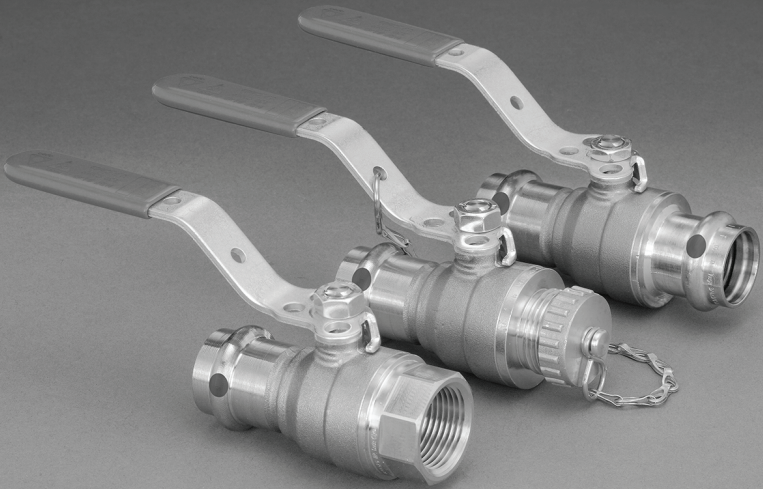
Bronze PEX Press Adapter PEX x P - Model 2813PZL

Part No.	Size	A (in)	L (in)
	1 2		
99620	1/2" x 1/2"	1.61	0.29
99626	1/2" x 3/4"	1.83	0.43
99630	3/4" x 1/2"	1.56	0.23
99640	3/4" x 3/4"	1.73	0.33
99660	1" x 1"	1.97	0.45
99670	1 1/4" x 1 1/4"	2.38	0.49
99680	1 1/2" x 1 1/2"	2.87	0.59
99690	2" x 2"	3.21	0.58

Viega ProPress

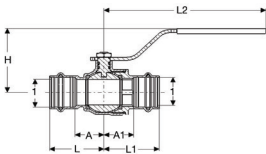
1/2" to 2" valves

Dimensional documentation



Viega ProPress 1/2" to 2" valves

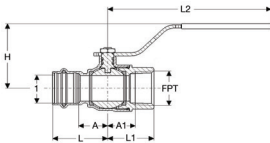
Dimensional documentation (inches)



NOTE: All model 2973 valves are intended for use in non-potable water applications. For NSF-61G compliant valves refer to Viega ProPress Zero Lead model 2971.

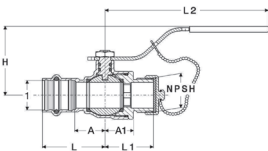
Ball Valve P x P - Model 2973

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)	H (in)
	1						
24000	1/2"	0.83	0.83	1.58	1.58	3.94	1.69
24005	3/4"	0.95	0.95	1.86	1.86	4.72	1.97
24010	1"	1.18	1.18	2.09	2.09	4.72	2.13
24015	1 1/4"	1.29	1.29	2.31	2.31	6.22	2.87
24020	1 1/2"	1.39	1.39	2.81	2.81	6.22	3.11
24025	2"	1.85	1.85	3.43	3.43	6.22	3.46



Ball Valve P x FPT - Model 2973.1

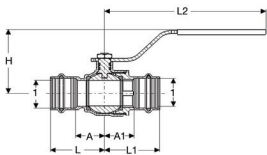
Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)	H (in)
	1 x FPT						
24030	1/2" x 1/2"	0.83	0.63	1.58	1.16	3.94	1.69
24035	3/4" x 3/4"	0.95	0.71	1.86	1.26	4.72	1.97
24040	1" x 1"	1.18	0.93	2.09	1.59	4.72	2.13



Ball Valve P x Hose - Model 2973.2

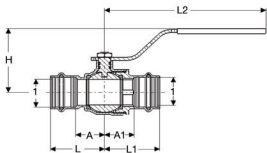
Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)	H (in)
	1 x NPSH						
24045	1/2" x 3/4"	0.83	0.85	1.58	1.30	3.89	1.67
24050	3/4" x 3/4"	0.95	0.95	1.86	1.39	4.72	1.97

Dimensional documentation (inches)



Zero Lead* Bronze Ball Valve P x P - Model 2971.1ZL

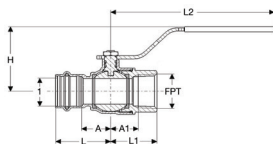
Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)	H (in)
	1						
79920	1/2"	0.75	0.75	1.57	1.57	4.57	1.97
79925	3/4"	0.85	0.87	1.75	1.77	4.57	2.09
79930	1"	1.02	1.06	1.93	1.96	5.75	2.46
79935	1 1/4"	1.14	1.12	2.17	2.15	5.75	2.67
79940	1 1/2"	1.32	1.32	2.74	2.74	6.10	3.00
79945	2"	1.66	1.66	3.23	3.23	6.10	3.30



Zero Lead* Bronze Ball Valve P x P - Model 2971.3ZL

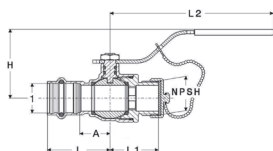
Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)	H (in)
	1						
79923	1/2"	0.75	0.75	1.57	1.57	4.57	1.97
79928	3/4"	0.85	0.87	1.75	1.77	4.57	2.09
79933	1"	1.02	1.06	1.93	1.96	5.75	2.46
79938	1 1/4"	1.14	1.12	2.17	2.15	5.75	2.67
79943	1 1/2"	1.32	1.32	2.74	2.74	6.10	3.00
79948	2"	1.66	1.66	3.23	3.23	6.10	3.30

Viega ProPress 1/2" to 2" Zero Lead valves



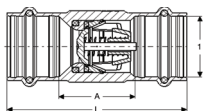
Zero Lead* Bronze Ball Valve P x FPT - Model 2971.4ZL

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)	H (in)
	1 x FPT						
79970	1/2" x 1/2"	0.73	0.66	1.57	1.20	4.57	1.97
79975	3/4" x 3/4"	0.85	0.79	1.75	1.35	4.57	2.09
79980	1" x 1"	1.02	0.98	1.93	1.63	5.75	2.46



Zero Lead* Bronze Ball Valve P x Hose - Model 2971.5ZL

Part No.	Size	A (in)	L (in)	L1 (in)	L2 (in)	H (in)
	1 x NPSH					
79990	1/2" x 3/4"	0.75	1.57	1.35	4.57	1.97
79995	3/4" x 3/4"	0.85	1.75	1.35	4.57	2.09



Zero Lead* Bronze Check Valve P x P - Model 2974ZL

Part No.	Size	A (in)	L (in)
	1		
79035	1/2"	0.87	2.52
79040	3/4"	1.14	2.95
79045	1"	1.34	3.15
79050	1 1/4"	1.69	3.74
79055	1 1/2"	2.09	4.92
79060	2"	2.56	5.71

*Zero Lead identifies Viega® products meeting the lead free requirements of NSF 61-G through testing under NSF/ANSI 372 (.25% or less maximum weighted average lead content).

Viega ProPress XL (Copper)

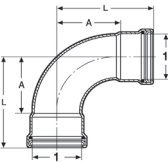
2½" to 4" fittings

Dimensional documentation

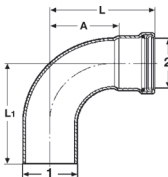


Viega ProPress XL (Copper) 2½" to 4"

Dimensional documentation (inches)

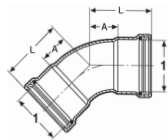


Stock Code	Size	A (in)	L (in)
	1		
20623	2½"	3.19	4.88
20628	3"	3.76	5.73
20633	4"	4.90	7.26



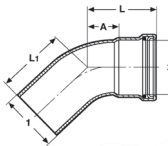
Copper 90° Elbow FTG x P - Model 0916.1XL

Stock Code	Size	A (in)	L (in)	L1 (in)
	1 2			
20638	2½" x 2½"	3.19	4.88	4.80
20643	3" x 3"	3.76	5.73	5.63
20648	4" x 4"	4.90	7.26	7.13



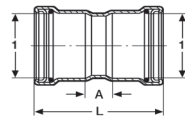
Copper 45° Elbow P x P - Model 0926XL

Stock Code	Size	A (in)	L (in)
	1		
20653	2½"	1.48	3.18
20658	3"	1.73	3.70
20663	4"	1.96	4.63



Copper 45° Elbow FTG x P - Model 0926.1XL

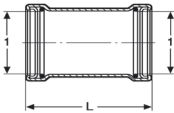
Stock Code	Size	A (in)	L (in)	L1 (in)
	1 2			
20668	2½" x 2½"	1.48	3.18	3.10
20673	3" x 3"	1.73	3.70	3.60
20678	4" x 4"	2.20	4.57	4.49



Copper Coupling P x P with Stop - Model 0915XL

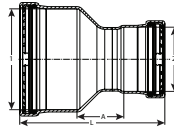
Stock Code	Size	A (in)	L (in)
	1		
20728	2½"	0.95	4.33
20733	3"	0.98	4.92
20738	4"	1.06	5.79

Viega ProPress XL (Copper) 2½" to 4"



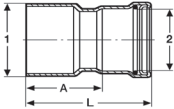
Copper Coupling P x P No Stop - Model 0915.5XL

Stock Code	Size	L (in)
	1	
20743	2½"	4.33
20748	3"	4.92
20753	4"	5.79



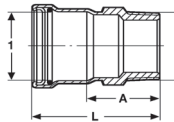
Copper Reducer P x P - Model 0915.2XL

Stock Code	Size	A (in)	L (in)
	1 2		
20685	2½" x 1"	1.76	4.36
20690	2½" x 1¼"	1.61	4.34
20695	2½" x 1½"	1.52	4.64
20700	2½" x 2"	1.41	4.69
20705	3" x 1½"	1.78	5.17
20710	3" x 2"	1.53	5.08
20715	3" x 2½"	1.41	5.07
20720	4" x 2"	2.06	6.00
20725	4" x 2½"	1.93	5.99
20730	4" x 3"	1.70	6.03



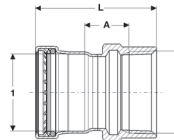
Copper Reducer FTG x P - Model 0915.1XL

Stock Code	Size	A (in)	L (in)
	1 2		
20814	2½" x 1"	3.61	4.52
20815	2½" x 1¼"	3.47	4.51
20813	2½" x 1½"	3.41	4.84
20758	2½" x 2"	2.35	3.94
20817	3" x 1¼"	3.96	5.00
20818	3" x 1½"	3.91	5.34
20763	3" x 2"	2.98	4.57
20768	3" x 2½"	2.56	4.25
20773	4" x 2"	4.58	6.17
20778	4" x 2½"	4.45	6.15
20783	4" x 3"	4.17	6.14



Copper Adapter P x MPT - Model 0911XL

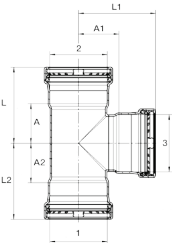
Stock Code	Size	A (in)	L (in)
	1 2		
20823	2½"x 2½" MPT	2.76	4.45
20828	3"x 3" MPT	2.84	4.80
20838	4"x 4" MPT	3.10	5.46



Copper Adapter P x FPT - Model 0912XL

Stock Code	Size	A (in)	L (in)
	1 2		
20819	2½" x 2½" FPT	1.53	4.15
20829	3" x 3" FPT	1.84	4.82
20839	4" x 4" FPT	2.09	5.55

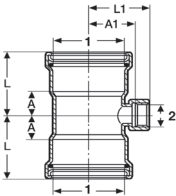
Viega ProPress XL (Copper) 2½" to 4"



Copper Tee P x P x P - Model 0918XL

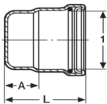
Stock Code	Size	A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3						
20684	2½" x ¾" x 2½"	1.83	1.87	3.23	3.52	3.56	4.13
20689	2½" x 1" x 2½"	1.83	1.91	3.25	3.52	3.60	4.15
20694	2½" x 1¼" x 2½"	1.83	1.87	3.20	3.52	3.56	4.23
20699	2½" x 1½" x 2½"	1.83	1.91	3.14	3.52	3.60	4.57
20704	2½" x 2" x ¾"	1.04	1.61	1.59	2.74	2.52	3.17
20709	2½" x 2" x 1"	1.04	1.77	1.65	2.74	2.67	3.24
22283	2½" x 2" x 1½"	1.30	1.78	1.92	2.99	3.21	3.50
22278	2½" x 2" x 2"	1.50	1.75	2.25	3.19	3.33	3.83
20714	2½" x 2" x 2½"	1.83	1.91	2.41	3.52	3.60	4.00
22303	2½" x 2½" x ½"	0.91	1.52	0.91	2.60	2.27	2.60
22298	2½" x 2½" x ¾"	0.91	1.58	0.91	2.60	2.48	2.60
22293	2½" x 2½" x 1"	1.04	1.77	1.04	2.74	2.68	2.74
22288	2½" x 2½" x 1¼"	1.16	1.76	1.16	2.85	2.79	2.85
20803	2½" x 2½" x 1½"	1.30	1.78	1.30	2.99	3.21	2.99
20688	2½" x 2½" x 2"	1.54	1.75	1.54	3.23	3.34	3.23
20683	2½" x 2½" x 2½"	1.83	1.87	1.83	3.52	3.57	3.52
20719	3" x ¾" x 3"	2.07	2.15	3.82	4.04	4.11	4.72
20724	3" x 1" x 3"	2.07	2.18	3.96	4.04	4.15	4.86
20729	3" x 1¼" x 3"	2.07	2.18	3.83	3.96	4.15	4.86
20727	3" x 1½" x 3"	2.07	2.15	3.71	4.04	4.11	5.14
20732	3" x 2" x 2"	1.56	2.00	2.34	3.52	3.59	3.92
20734	3" x 2" x 2½"	1.85	2.15	2.63	3.82	3.85	4.21
20739	3" x 2" x 3"	2.07	2.15	2.85	4.04	4.11	4.43
20744	3" x 2½" x 2"	1.56	2.03	2.07	3.52	3.61	3.76
20749	3" x 2½" x 2½"	1.85	2.15	2.36	3.82	3.85	4.06
20754	3" x 2½" x 3"	2.07	2.15	2.58	4.04	4.11	4.27
20759	3" x 3" x ½"	0.93	1.76	0.93	2.89	2.50	2.89
22323	3" x 3" x ¾"	0.93	1.80	0.93	2.89	2.71	2.89
22308	3" x 3" x 1"	1.06	2.02	1.06	3.03	2.92	3.03
22313	3" x 3" x 1¼"	1.18	2.01	1.18	3.15	3.04	3.15
20798	3" x 3" x 1½"	1.32	2.03	1.32	3.29	5.02	3.29
20698	3" x 3" x 2"	1.56	2.00	1.56	3.52	3.59	3.52
20703	3" x 3" x 2½"	1.85	2.15	1.85	3.82	3.85	3.82
20693	3" x 3" x 3"	2.07	2.21	2.07	4.04	4.18	4.04
20774	4" x 3" x 2"	1.59	2.57	3.33	3.96	4.15	5.30
20784	4" x 3" x 3"	2.11	2.66	3.84	4.47	4.63	5.81
20788	4" x 4" x ½"	1.08	2.24	1.08	3.45	2.99	3.45
20793	4" x 4" x ¾"	1.08	2.32	1.08	3.45	3.22	3.45
20794	4" x 4" x 1"	1.36	2.52	1.36	3.72	3.42	3.72
20795	4" x 4" x 1¼"	1.36	2.50	1.36	3.72	3.54	3.72
20808	4" x 4" x 1½"	1.36	2.52	1.36	3.72	3.95	3.72
20713	4" x 4" x 2"	1.59	2.53	1.59	3.96	4.11	3.96
20718	4" x 4" x 2½"	1.89	2.65	1.89	4.25	4.35	4.25
20723	4" x 4" x 3"	2.11	2.69	2.11	4.47	4.65	4.47
20708	4" x 4" x 4"	2.60	2.72	2.60	4.96	5.09	4.96

Viega ProPress XL (Copper) 2½" to 4"



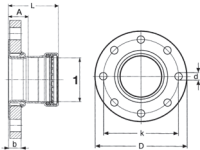
Copper Tee P x P x FPT - Model 0917.2XL

Stock Code	Size	A (in)	A1 (in)	L (in)	L1 (in)
	1 2				
20883	2½" x ¾" FPT	1.02	1.78	2.72	2.34
20878	2½" x 2" FPT	1.54	1.90	3.23	2.60
20893	3" x ¾" FPT	1.04	2.03	3.01	2.59
20888	3" x 2" FPT	1.56	2.16	3.52	2.85
20873	4" x ¾" FPT	1.08	2.53	3.34	3.09
20868	4" x 2" FPT	1.59	2.69	3.96	3.38



Copper Cap P - Model 0956XL

Stock Code	Size	A (in)	L (in)
	1		
20833	2½"	0.39	2.11
20843	3"	0.39	2.36
20848	4"	0.39	2.76



Copper Adapter Flange P x Flange - Model 0959.5XL

Stock Code	Size	A (in)	L (in)	b (in)	k (in)	D (in)	d (in)
	1						
20853	2½"	1.09	2.79	0.70	5.51	7.09	0.75
20858	3"	1.20	3.17	0.79	5.98	7.48	0.75
20863	4"	1.29	3.66	0.86	7.52	9.06	0.75

Viega ProPressG

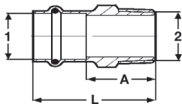
1/2" to 2" fittings

Dimensional documentation



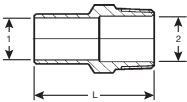
Viega ProPressG 1/2" to 2"

Dimensional documentation (inches)



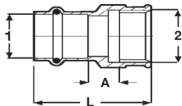
Bronze Adapter P x MPT - Model 0611

Part No.	Size	A (in)	L (in)
	1 2		
16043	1/2" x 3/8" MPT	0.97	1.71
16048	1/2" x 1/2" MPT	1.12	1.87
16053	3/4" x 3/4" MPT	1.18	2.09
16058	1" x 1" MPT	1.46	2.36
16063	1 1/4" x 1 1/4" MPT	1.54	2.56
16068	1 1/2" x 1 1/2" MPT	1.54	2.95
16073	2" x 2" MPT	1.67	3.25



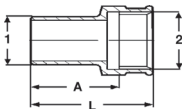
Bronze Adapter FTG x MPT - Model 0611.1

Part No.	Size	L (in)
	1 2	
23203	1/2" x 1/2" MPT	1.97
23208	3/4" x 3/4" MPT	2.15
23218	1" x 1" MPT	2.36
23223	1 1/4" x 1 1/4" MPT	2.66
23228	1 1/2" x 1 1/2" MPT	3.05
23233	2" x 2" MPT	3.54



Bronze Adapter P x FPT - Model 0612

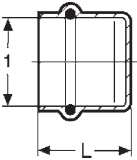
Part No.	Size	A (in)	L (in)
	1 2		
23373	1/2" x 3/8" FPT	0.22	1.38
16078	1/2" x 1/2" FPT	0.29	1.58
16088	3/4" x 3/4" FPT	0.39	1.85
16093	1" x 1" FPT	0.48	2.05
23358	1 1/4" x 1 1/4" FPT	0.38	2.09
23363	1 1/2" x 1 1/2" FPT	0.39	2.48
23368	2" x 2" FPT	0.45	2.72



Bronze Adapter FTG x FPT - Model 0612.1

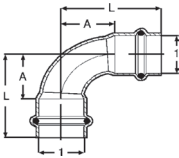
Part No.	Size	A (in)	L (in)
	1 2		
23238	1/2" x 1/2" FPT	1.12	1.65
23243	3/4" x 3/4" FPT	1.26	1.81
23253	1" x 1" FPT	1.31	1.97
23258	1 1/4" x 1 1/4" FPT	1.48	2.17
23263	1 1/2" x 1 1/2" FPT	1.88	2.56
23268	2" x 2" FPT	2.34	3.03

Viega ProPressG 1/2" to 2"



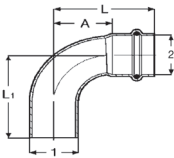
Copper Cap x P - Model 0656

Part No.	Size	L (in)
	1	
16313	1/2"	0.92
16318	3/4"	1.07
16323	1"	1.11
16328	1 1/4"	1.32
16333	1 1/2"	1.62
16338	2"	1.81



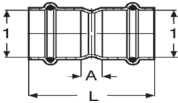
Copper 90° Elbow P x P - Model 0616

Part No.	Size	A (in)	L (in)
	1		
16128	1/2"	0.75	1.50
16133	3/4"	1.04	1.95
16138	1"	1.32	2.23
16143	1 1/4"	1.65	2.68
16148	1 1/2"	1.98	3.40
16153	2"	2.55	4.13



Copper 90° Elbow FTG x P - Model 0616.1

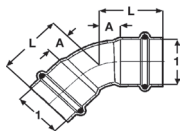
Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
16158	1/2" x 1/2"	0.75	1.50	1.54
16163	3/4" x 3/4"	1.04	1.95	1.98
16168	1" x 1"	1.32	2.23	2.27
16173	1 1/4" x 1 1/4"	1.65	2.68	2.76
16178	1 1/2" x 1 1/2"	1.98	3.40	3.48
16183	2" x 2"	2.55	4.13	4.21



Copper Coupling P x P with Stop - Model 0615

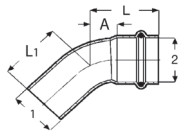
Part No.	Size	A (in)	L (in)
	1		
16098	1/2"	0.12	1.61
16103	3/4"	0.20	2.01
16108	1"	0.16	1.97
16113	1 1/4"	0.14	2.21
16118	1 1/2"	0.14	2.99
16123	2"	0.14	3.31

Viega ProPressG 1/2" to 2"



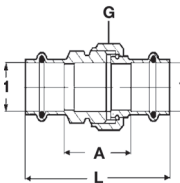
Copper 45° Elbow P x P - Model 0626

Part No.	Size	A (in)	L (in)
	1		
16188	1/2"	0.30	1.04
16193	3/4"	0.43	1.34
16198	1"	0.55	1.46
16203	1 1/4"	0.69	1.71
16208	1 1/2"	0.83	2.24
16213	2"	1.06	2.64



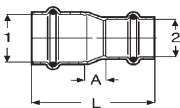
Copper 45° Elbow FTG x P - Model 0626.1

Part No.	Size	A (in)	L (in)	L1 (in)
	1 2			
16218	1/2" x 1/2"	0.32	1.06	1.10
16223	3/4" x 3/4"	0.43	1.34	1.37
16228	1" x 1"	0.55	1.46	1.50
16233	1 1/4" x 1 1/4"	0.69	1.71	1.79
16238	1 1/2" x 1 1/2"	0.83	2.24	2.32
16243	2" x 2"	1.06	2.64	2.72



Bronze Union P x P - Model 0650

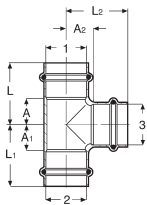
Part No.	Size	A (in)	L (in)	G (in)
	1			
17598	1/2"	1.26	2.76	3/4"
17603	3/4"	1.34	3.15	1"
17608	1"	1.83	3.64	1 1/4"
17613	1 1/4"	1.63	3.68	1 1/2"
17618	1 1/2"	2.13	4.96	2"
17623	2"	2.07	5.22	2 1/2"



Copper Reducer P x P - Model 0615.2

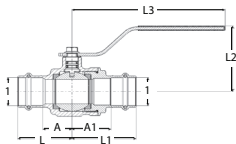
Part No.	Size	A (in)	L (in)
	1 2		
23273	3/4" x 1/2"	0.45	2.07
23278	1" x 1/2"	0.74	2.36
23283	1" x 3/4"	0.50	2.29
23293	1 1/4" x 3/4"	0.73	2.64
23288	1 1/4" x 1"	0.58	2.48
23303	1 1/2" x 1"	0.77	3.07
23298	1 1/2" x 1 1/4"	0.53	2.96
23308	2" x 1"	1.32	3.78
23313	2" x 1 1/2"	0.77	3.75

Viega ProPressG 1/2" to 2"



Copper Tee P x P x P - Model 0618

Part No.	Size	A (in)	A1 (in)	A2 (in)	L (in)	L1 (in)	L2 (in)
	1 2 3						
16248	1/2"	0.74	0.50	0.74	1.50	1.24	1.50
16253	3/4"	0.84	0.59	0.84	1.75	1.50	1.75
16258	3/4" x 3/4" x 1/2"	0.69	0.63	0.69	1.59	1.38	1.59
16263	1"	0.71	0.79	0.71	1.87	1.69	1.87
23333	1" x 3/4" x 1/2"	0.69	0.79	0.89	1.59	1.54	1.79
17688	1" x 1" x 1/2"	0.69	0.79	0.69	1.59	1.54	1.95
16268	1" x 3/4" x 3/4"	0.84	0.75	1.04	1.75	1.65	1.95
16273	1" x 1" x 3/4"	0.84	0.75	0.84	1.75	1.65	1.75
16278	1 1/4"	1.02	0.87	1.02	2.05	1.89	2.05
16283	1 1/4" x 1 1/4" x 1"	0.89	0.91	0.89	1.91	1.81	1.91
16288	1 1/2"	1.14	1.14	1.14	2.56	2.56	2.56
23348	1/2" x 1 1/2" x 3/4"	0.67	1.14	0.67	2.05	2.09	2.09
16293	1 1/2" x 1 1/2" x 1"	0.75	1.18	0.75	2.17	2.09	2.17
16298	1 1/2" x 1 1/2" x 1 1/4"	0.87	1.14	0.87	2.28	2.17	2.28
16303	2"	1.38	1.38	1.38	2.95	2.95	2.95
23353	2" x 2" x 3/4"	0.80	1.26	0.80	2.37	2.17	2.37
16308	2" x 2" x 1 1/2"	1.14	1.38	1.14	2.72	2.80	2.72



ProPress Gas Ball Valve - Model 0670

Part No.	Size	A (in)	A1 (in)	L (in)	L1 (in)	L2 (in)	L3 (in)
	1						
19648	1/2"	0.83	1.02	1.58	1.77	1.34	4.76
19653	3/4"	0.87	1.14	1.77	2.05	1.42	4.76
19658	1"	1.06	1.42	1.97	2.32	1.56	4.76
19663	1 1/4"	0.94	1.50	1.97	2.53	1.91	6.10
19668	1 1/2"	1.28	1.43	2.70	2.84	2.20	6.10
19673	2"	1.36	1.75	3.13	3.32	2.45	6.10

Viega ProPress Systems

Notes

Viega ProPress Systems

Viega LLC 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 Viega 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.

ProPress Warranty 0408

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PG-PP 724604 0614

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