

Viega Metals Solutions

**Viega ProPress and
MegaPress Systems**



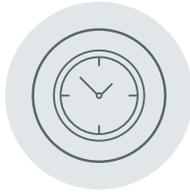


Viega

The Viega standard of excellence demands perfection in every product we engineer. No matter the product, you can trust that a Viega system won't let you down. Viega system solutions are engineered, manufactured, designed and tested time and again because we know true quality means not compromising on what matters – standards, reliability and performance.

Whether you're installing a potable water system or a corrosive chemical line, Viega offers a system solution that is engineered and easy to install. Viega is the only manufacturer with press systems in multiple pipe joining materials, whether copper nickel, stainless or carbon steel, and our systems are approved for use in the largest range of applications.

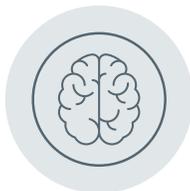
FEATURES + BENEFITS



Many Viega products can be pressed in seven seconds or less, a significant time savings over traditional joining methods. There's no wait time for curing or drying, so pressure tests can be performed immediately.



Viega press fittings are simpler and safer to install than traditional methods. Installations can be made anywhere, in any condition. Unlike grooved and threaded connections, you don't have to reduce the thickness of the pipe wall to get the dependable connection you need.



With Viega's patented Smart Connect® technology, you'll know every connection is made correctly. Smart Connect helps easily identify unpressed connections, so if one was missed it's easy to locate and press without having to drain the system.



Viega is a trusted leader in press technology, so build with confidence. With a heritage of engineering press fittings for a variety of materials and strict quality control, you'll know you're getting the very best when you choose Viega.



With no welding or soldering flames, fire watches are unnecessary. That means there's no need for additional manpower, plus you can skip the messy or labor-intensive tools.

Viega MegaPress Systems

CLEAN, SAFE, SECURE CARBON STEEL CONNECTIONS



The first press fittings for carbon steel hydronic and gas systems

You can do more with the Viega MegaPress system. The first press fitting system for both hydronic and gas applications in carbon steel pipe, Viega MegaPress is flameless and eliminates heavy equipment and messy joining materials.

Viega MegaPress fittings can be installed while the system is live, which means you don't need to shut a system down completely before making connections. Viega MegaPress is ideal for new installations or for repairs on existing systems.

Suitable for use with ASTM Schedule 5 to Schedule 40 carbon steel pipe, the Viega MegaPress system includes more than 400 different engineered fitting configurations ranging in size from ½" to 2". MegaPress and MegaPressG are approved for more applications than any other carbon steel press fitting system and makes secure connections you can trust.

Designed for Iron Pipe Size (IPS) stainless steel, Viega MegaPress Stainless fittings are available in 304 and 316 stainless steel. MegaPress Stainless offerings make efficient connections possible for more applications than ever before.

Make larger carbon steel press connections with Viega MegaPress XL fittings. This extension of MegaPress is for Schedule 5 to Schedule 40 carbon steel pipe in diameters from 2½" to 4" size. Make an XL press connection using the MegaPress XL PressBooster, specially designed to make the larger-sized connections.

"We figure that using Viega saved us at least two weeks, being able to just cut the pipe and press. It looks very professional. You can plumb it straight and square. It's so much faster and so much better."

– Bryce Mannek, President, Blue Line Plumbing and Mechanical



Viega MegaPress

SAVE TIME, LABOR AND CLEANUP

Ideal for industrial, commercial and residential applications, the Viega MegaPress system is easy to use, flameless and reliable. The system performs well in both new installations and retrofit projects. MegaPress leaves no joining material buildup, exposed threads or tarnish, creating a clean, professional appearance.

With an EPDM sealing element for Viega MegaPress and MegaPress 316, an HNBR sealing element for MegaPressG and an FKM sealing element for MegaPress XL and MegaPress 304, the system provides maximum performance for both hydronic and gas applications. MegaPress also offer a 90/10 Copper Nickel alloy for marine and industrial specialty applications.

MegaPress applications:

- Chilled water
- Compressed air
- Fire protection
- Fuel oil
- Hydronic heating
- Low-pressure steam
- Natural gas
- Vacuum (to 29.2 in. Hg)
- Acetone
- Diesel fuel
- Vegetable oils
- Engine oils
- Gear grease
- Hydraulic fluid
- Transmission fluid
- Nitrogen
- Argon
- Carbon dioxide

For more specific information on applications for Viega MegaPress, contact Viega Technical Services at 800-976-9819.

For a list of applications, please reference the chart on page 15.



Viega MegaPress



Viega MegaPressG

Viega carbon steel

FIRE PROTECTION YOU CAN COUNT ON



Viega MegaPress CuNi



Viega MegaPress Stainless



Viega MegaPress is UL and FM certified for fire protection applications in sizes ½" to 2". As with other Viega press systems, Viega MegaPress fittings can be used in pre-fabricated assemblies, producing a straight, clean installation. And with patented Smart Connect technology, installers can verify that all fittings in pre-fabbed assemblies are secure.



Viega ProPress Systems

THE INDUSTRY LEADER IN PRESS CONNECTIONS



Solutions for copper and stainless systems

Viega was the first to offer press joining systems in North America, the first to offer a proven method to verify secure connections and the first to offer the same time-saving press technology in multiple materials.

Since its introduction in 1999, ProPress has reduced overall job costs, saved time and increased reliability on jobsites across the globe. ProPress has more than 800 fittings in multiple configurations for copper and stainless. It's approved for nearly 1,000 different applications. Press technology can decrease labor time by up to five times, compared to other installation methods. Press is also flameless, so there's no need for burn permits and fire watch like with sweating or brazing. ProPress is offered in copper, Zero Lead bronze, and 304 and 316 stainless steel. Copper, Zero Lead bronze and 316 stainless come with a factory-installed EPDM sealing element in sizes ½" to 4". Exchangeable FKM sealing elements in ½" to 4" and HNBR sealing elements in ½" to 2" are also available. ProPress 304 stainless steel comes standard with an FKM sealing element.



“It was almost inconceivable that we could accomplish this schedule without the advantages of ProPress to speed it up overall. It cannot be overstated, the benefit we have in taking advantage of ProPress on our project, especially given the time we had.”

– John Thomas, Senior Project Manager, Layton Construction

Viega ProPress

THE RECOGNIZED LEADER IN COPPER PRESS TECHNOLOGY

Viega ProPress is the proven solution for nearly any industrial, commercial or residential project. With three choices in sealing elements, Viega ProPress systems can be customized to suit nearly any application, from potable water to solar systems.

ProPress applications:

- Argon
- Carbon dioxide
- Chilled water
- Compressed air
- Cooling water
- Ethanol
- Fire protection
- Fuel oil
- Gray water
- Hydronic heating
- Kerosene
- Low-pressure steam
- Lube oil
- Nitrogen
- Oxygen (non-medical)
- Potable water
- Vacuum (to 29.2 in. Hg)

For more specific information on applications for Viega ProPress, contact Viega Technical Services at 800-976-9819.

For a list of applications, please reference the chart on page 15.



Viega ProPress



Viega ProPress Stainless

COMPLETE STAINLESS SOLUTIONS FOR NEARLY ANY APPLICATION

Viega ProPress Stainless is engineered for harsh industrial environments where the piping systems may come into contact with corrosive cleaning liquids. Available in two grades of stainless steel, 304 and 316, ProPress Stainless provides reliable performance whether you need 316 stainless for a potable water line or 304 stainless for a corrosive chemical line.

ProPress Stainless applications:

- Acetone
- Acetylene
- Acids
- Ammonia
- Argon
- Caustic solutions and vent piping
- Chemical process lines
- Chilled water
- Compressed air
- Condensate
- Deionized water
- Diesel fuel
- Ethanol
- Fuel oil
- Greywater
- Hydrogen
- Hydronic heating
- Isopropyl alcohol
- Kerosene
- Low-pressure steam
- Lube oils
- Methanol
- Nitrogen
- Oxygen (non-medical)
- Potable water
- Sludge
- Steam condensate
- Toluene
- Urea
- Vacuum (to 29.2 in. Hg)

For more specific information on applications for Viega ProPress, contact Viega Technical Services at 800-976-9819.

For a list of applications, please reference the chart on page 15.



Viega ProPress 304



Viega ProPress 316

Viega Ball Valves

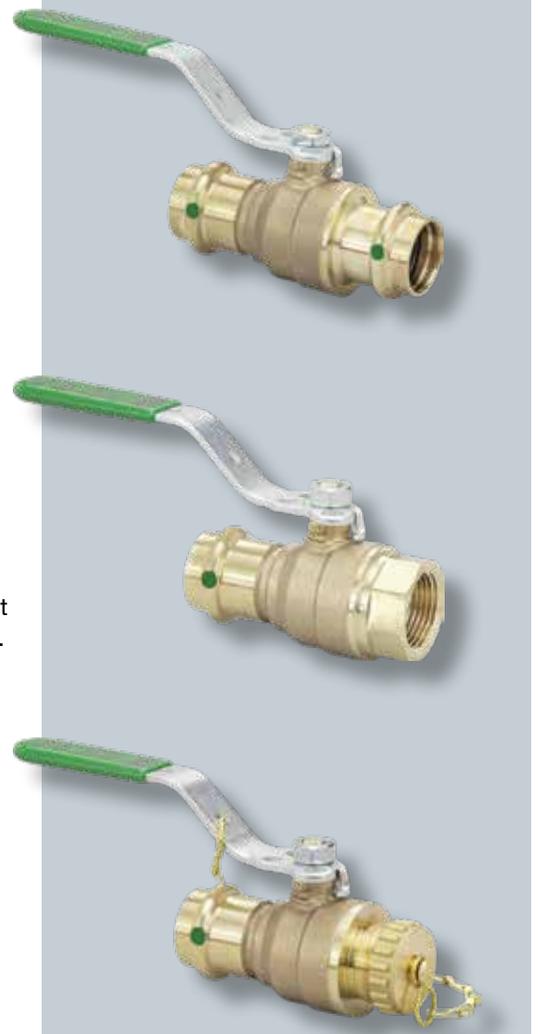
FOR COPPER, STAINLESS STEEL AND PLASTIC

Viega ball valves are engineered for press technology to fit seamlessly into Viega systems, whether they are for copper, stainless or plastic. Like all Viega products, ball valves have a flameless connection and provide time savings. They carry Smart Connect technology, which helps identify unpressed connections quickly during pressure testing.

Valves for copper systems are available for potable water and hydronic applications. They come in a variety of configurations including ball, check and butterfly. Zero Lead bronze valves are certified to NSF/ANSI 61 & 372 (includes Annex G), and were developed specifically with pressing in mind. Ball valves come in sizes ½" to 2".

Stainless steel valves are made of 316 stainless steel and are available for potable and hydronic applications. In two- and three-piece configurations, stainless valves come in sizes ½" to 2".

Valves for PEX systems are available in Zero Lead bronze, EcoBrass and PolyAlloy. For residential or commercial use, these valves come in sizes ¾" to 2" and have options for PureFlow Press fittings or PureFlow Crimp fittings.



Choose the valve that works for you

- Available in varying sizes from ½" to 2"
- Four configurations available:
P x P, P x P with stainless steel stem, P x FPT and P x Hose thread
- Standard 316 stainless steel ball
- Zero Lead bronze body and press connections
- Certified to ASME A112.4.14 and NSF/ANSI 61 & 372 (includes Annex G)

Smart Connect technology

DESIGNED FOR PEACE OF MIND

Viega's Smart Connect technology is designed directly into the fitting, providing a reliable identification method. Smart Connect gives installers confidence that connections are made correctly, because unpressed connections are easily identified during pressure testing.

Identify an unpressed connection during pressure testing when water or air flows past the sealing element. Make the connection by using the press tool to press the fitting.

Smart Connect technology should be tested at 15 to 85 psi when testing with water, or 0.5 to 45 psi when testing with air. After ensuring that all connections have been correctly pressed, installers may increase the test pressure to full system test requirements.



“Another great advantage of Viega I really like is that the fittings are designed [with Smart Connect technology] so they won’t hold pressure if the fitting isn’t pressed. When you put air in the system, you know immediately if it’s installed correctly.”

– Nicholas Messenger, Owner, Kohler Fire Protection

Meeting the strictest standards

Viega ProPress and Viega MegaPress fittings have been tested to the strictest standards in North America. Viega ProPress in copper and two grades of stainless steel, 304 and 316, is suitable for nearly any application, from potable water in commercial projects to corrosive chemicals in industrial projects. Viega MegaPress is the only press fitting system for carbon steel pipe that can be installed in both hydronic and gas applications, in industrial, commercial or residential settings.

Approvals and certificates for North America



ASTM A240
ASTM A312
ASTM A403
ASTM A554



CRN – Canadian
Registration
Number



ASME B31.1
ASME B31.3
ASME B31.9



American
Bureau of
Shipping



UL



NSF/ANSI 61 & 372
Zero Lead
Components



FM

Viega ProPress and Viega MegaPress fitting systems are also compliant with the following:



ICC International
Plumbing Code



UPC Uniform
Plumbing Code



Uniform
Mechanical
Code



PHCC National
Standard
Plumbing Code

Contact your local Viega district manager for details on local approvals.

Choose from three versatile sealing options

With a variety of sealing elements, Viega ProPress systems are approved for more applications than any other press system, ranging from potable water to corrosive chemicals. A proven pipe joining method used around the world, Viega ProPress technology increases the benefits to installers and specifying engineers.

Viega fittings can be used with EPDM, HNBR or FKM sealing elements.



EPDM Sealing Element



HNBR Sealing Element



FKM Sealing Element

Types of Service	System Operating Conditions			304 Stainless and 304 Stainless XL	316 Stainless and 316 Stainless XL	ProPress and ProPress XL	MegaPress	MegaPress XL	MegaPressG	Viega PureFlow
	Comments	Pressure	Temperature	FKM	EPDM	EPDM	EPDM	FKM	HNBR	
Fluids/Water										
Hot and Cold Potable Water		200 psi	Note 3		✓	✓				✓
Rainwater/Gray Water		200 psi	Note 3		✓	✓				✓
Fire Sprinkler	NFPA 13, 13D, 13R	175 psi	Ambient	✓		✓	✓	✓		
	NFPA 13D	130 psi	Ambient							✓
Chilled Water	Ethylene Glycol / Propylene Glycol	200 psi	Note 3	✓	✓	✓	✓	✓		
Hydronic Heating	Ethylene Glycol / Propylene Glycol	200 psi	Note 3	✓	✓	✓	✓	✓		✓
Cooling Water	Up to 50% Ethylene Glycol or Propylene Glycol solution	200 psi	Note 3	✓	✓	✓	✓	✓		✓
Deionized Water		200 psi	Max 230°F		✓					
Low-Pressure Steam		Max 15 psi	Max 250°F	✓	✓	✓	✓	✓		
Isopropyl Alcohol		200 psi	Ambient	✓	✓		✓	✓		
Latex Paint		200 psi	32°F to 250°F		✓					
Methyl Ethyl Ketone		200 psi	Max 100°F		✓					
Nitric Acid	10%	200 psi	Ambient	✓	✓					
Phosphoric Acid	25%	200 psi	Ambient		✓					
Paraffin Wax		200 psi	Max 100°F	✓						
Fuel, Oil and Lubricant										
Heating Fuel Oil		125 psi	Max 100°F	✓				✓	✓	
Diesel Fuel		125 psi	Max 100°F	✓					✓	
Ethanol	Pure Grain Alcohol	200 psi	Ambient		✓	✓				
Propane	Compliant with CSA LC4	125 psi	-40°F to 180°F						✓	
Butane	Compliant with CSA LC4	125 psi	-40°F to 180°F						✓	
Kerosene		125 psi	Max 68°F	✓					✓	
Natural Gas	Compliant with CSA LC4	125 psi	-40°F to 180°F						✓	
Lube Oil	Petroleum Based	200 psi	Max 150°F	✓				✓	✓	
Mineral Oil		200 psi	Ambient	✓				✓	✓	
Gases										
Compressed Air	Less than 25mg/m ³ oil content	200 psi	Max 140°F	✓	✓	✓	✓	✓	✓	
Compressed Air	More than 25mg/m ³ oil content	200 psi	Max 140°F	✓				✓	✓	
Oxygen - O ₂ (non-medical)	Keep oil and fat free / non-liquid O ₂	140 psi	Max 140°F	✓	✓	✓	✓	✓	✓	
Nitrogen - N ₂		200 psi	Max 140°F	✓	✓	✓	✓	✓	✓	
Carbon Dioxide - CO ₂		200 psi	Max 140°F			✓	✓		✓	
Ammonia	Anhydrous	200 psi	Max 120°F		✓					
Acetylene		20 psi	Ambient	✓	✓		✓	✓	✓	
Argon	Welding Use	200 psi	Max 140°F	✓	✓	✓	✓	✓	✓	
Hydrogen - H ₂		125 psi	Max 140°F		✓	✓				
Vacuum		29.2" of Hg	Note 3	✓	✓	✓	✓	✓	✓	
<p>1. It is recommended that all systems be clearly labeled with the fluid or gas being conveyed. For further information please consult Viega Technical Services.</p> <p>2. All Viega systems must be used with the manufacturer's recommended sealing element. Contact your local Viega representative or Viega Technical Services for application temperature, pressure, and concentration limits.</p> <p>3. System pressure and temperature ranges depend on sealing element.</p>										



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This document is subject to updates. For the most current Viega literature please visit www.viega.us

The term Viega does not apply to a specific company within the various separate and distinct companies comprising the Viega group of companies. The term Viega as used in this publication refers to the Viega brand itself or generally to the Viega group of companies. References to activities in North America specifically refer to activities of Viega LLC.

A green dot on a Viega ProPress, MegaPress fitting indicates Smart Connect technology with an EPDM sealing element. A yellow dot on a Viega MegaPressG fitting indicates Smart Connect technology with an HNBR sealing element. A white dot on a Viega ProPress or MegaPress (304 FKM) fitting indicates Smart Connect technology with an FKM sealing element. For a current list of applications, please visit www.viega.us/applications.

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

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