

Viega Metals Solutions

**Viega ProPress and
MegaPress Systems**





Viega Press Systems

MAKING RELIABLE
CONNECTIONS SINCE 1989

Secure, proven solutions for joining pipe

You can't buy trust. Trust is something you earn after years and years of proven performance and that's what Viega offers. Viega's heritage of trustworthy system solutions has changed the industry and made pipe joining easier and better for tens of thousands of professionals around North America.

Viega ProPress and Viega MegaPress systems are suitable for virtually any type of project, whether industrial, marine, commercial or residential for both new and retrofit installations. Viega ProPress fittings are available in copper and stainless steel. Viega MegaPress in carbon steel is the first press system for black iron pipe that can be installed in both hydronic and gas applications.

The patented Viega Smart Connect feature is the only proven method in the industry to verify a secure pipe connection. Only genuine Viega fittings have the true Viega Smart Connect feature.

- More than 1,300 press fitting choices in multiple materials, including copper, stainless and carbon steel
- Make secure press connections in less than seven seconds
- Save up to 60% on installation time
- System-matched tools and jaws available to make consistent connections
- More approved applications than any other press fitting system

"We had almost unlimited options in construction and connections. Viega ProPress allows us to extend the system and make additional tie-ins in the future. We were able to customize the whole system."

Sabina Pryce-Jones,
Generation Operations
and Maintenance Specialist, JEA



"Viega ProPress is the cleanest system that you can install. When you get to the end of the project, flush the system and you're clean."

Jeff Wilson, Project Manager,
Right Way Plumbing





Viega MegaPress Systems

CLEAN, SAFE, SECURE
BLACK IRON CONNECTIONS

The only carbon steel press fittings for black iron hydronic and gas systems

You can do more with the Viega MegaPress system. The first and only press fitting system for both hydronic and gas applications in black iron 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 integrating into existing systems.

Suitable for use with ASTM Schedule 5 to Schedule 40 black iron pipe, the Viega MegaPress system includes more than 200 different engineered fitting configurations ranging in size from ½" to 2". So whether you're putting in a hydronic water line or a fire protection system with Viega MegaPress or a natural gas line with Viega MegaPressG, you can install an innovative solution for black iron pipe.

Approved for more applications than any other carbon steel press fitting system, Viega MegaPress makes secure connections you can trust. Not only do you eliminate cleanup on the job with Viega MegaPress, you also reduce callbacks.

Innovative Viega press technology joins black iron pipe securely through the engineered design of the fittings and the use of the press tool. No more manual tightening is needed and that allows you to relax when the job is over, confident that every connection is secure.

“One of our jobs was going to be hugely labor intensive, spending days in a cramped workspace. But with Viega MegaPress I had two guys down there for six hours, and it was done. It was a huge benefit.”

Andrew Long, Commercial Foreman,
Forbes Mechanical, Edmonton, AB



“Viega MegaPress fittings were a good choice for us. It's really quick, really fast and — as we found out on this job — really reliable. We did 1,000 joints and didn't have any problems out of any of them.”

Derrick Geis, Project Manager,
Houston Elementary,
Mineral Wells, TX

SAVE TIME, LABOR AND CLEANUP WITH VIEGA MEGAPRESS

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

With a black EPDM sealing element for the Viega MegaPress system or a yellow HNBR sealing element for Viega MegaPressG, the system provides maximum performance for both hydronic and gas applications.

Examples of approved applications

Chilled water	Low-pressure steam	Canola oil	Gear grease	Corgon
Compressed air	Natural gas	Palm oil	Hydraulic fluid	Carbon dioxide
Fire protection	Vacuum lines	Sunflower oil	Transmission fluid	
Fuel oil	Acetone	Vegetable oils	Nitrogen	
Hydronic heat	Diesel fuel	Engine oils	Argon	

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 17.



Viega MegaPress



Viega MegaPressG

Black iron fire protection you can count on

Viega MegaPress is UL and FM certified for fire protection applications in sizes 1/2" 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 the patented Viega Smart Connect feature, installers can verify that all fittings in pre-fabbed assemblies are secure.

Backed by a limited warranty and approved for NFPA 13, 13D and 13R fire protection systems, Viega MegaPress can be installed in industrial applications or commercial projects like hotels and dorms. With Viega's patented cold-press technology, installations in attics and tight corners are safer than with traditional joining methods. With no threading required, installers don't need to carry heavy equipment or bother with metal shavings or cutting oils.

Viega MegaPress fittings provide a safe, clean, fast method for installing a fire protection system in industrial, commercial or residential projects. Viega MegaPress reduces the length of time a system must be shut down for tie-ins and makes new installations easy, providing security and complete peace of mind.

Proven connections

Viega MegaPress offers the patented Viega Smart Connect feature, the only proven connection identification method in the industry. The Viega Smart Connect feature allows water or air to flow past the sealing element in an unpressed fitting, clearly indicating a missed connection. Since installers can easily see if all connections have been made during pressure testing, the Viega Smart Connect feature provides security and peace of mind.



Unpressed

1 Identify an unpressed connection during pressure testing when water or air flows past the sealing element.



Pressing

2 Use the press tool to press the fitting, making a connection.



Pressed

3 Viega MegaPress connections are fast, flameless and secure.



Viega ProPress Systems

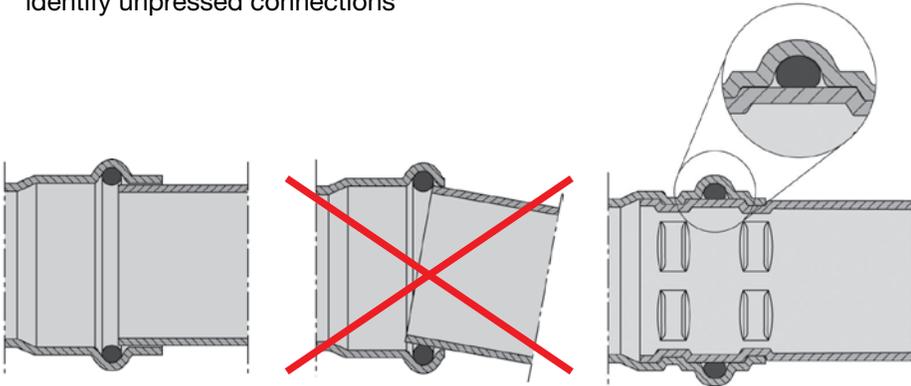
THE INDUSTRY'S FIRST
PRESS CONNECTION

Viega ProPress – copper and stainless solutions

Imitation is the sincerest form of flattery but it doesn't impress us. Viega was the first to offer press joining systems in North America, the first to offer a proven method to verify secure connections, the first to offer the same time-saving press technology in multiple materials. Viega ProPress systems have been imitated by other manufacturers but no one else can provide the same standard of performance.

Features and benefits

- Connections can be made wet or dry for quick repairs on existing systems
- More than 900 fittings in multiple configurations for copper and stainless
- Available in sizes 1/2" to 4"
- No need for burn permits or fire watches
- Makes secure press connections in less than seven seconds
- Flameless press technology eliminates sweating, brazing and grooving
- Reliable Zero Lead solution with inherently lead-free material
- Backed by a limited warranty
- Viega Smart Connect feature helps installers easily identify unpressed connections



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 unsecured connection. Without the pipe guides, installers can damage the sealing element.

Viega fittings are connected in a single step by pressing on each side of and on top of the sealing element.

The one and only

The Viega Smart Connect feature is designed directly into the fitting, so it provides a reliable identification method. On Viega ProPress fittings, the Viega Smart Connect feature is proven, so installers can be certain that a system is completely secure.



1 Identify an unpressed connection during pressure testing when water or air flows past the sealing element.



2 Use the press tool to press the fitting, making a connection.



3 Viega ProPress connections are fast, flameless and secure.

The Viega Smart Connect feature should be tested at 15 to 85 psi when testing with water or .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.

THE RECOGNIZED LEADER IN COPPER PRESS TECHNOLOGY

Viega's ProPress Copper press joining solution was the first introduced to North America in 1999. 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 natural gas to solar systems.

Examples of approved applications

Argon	Ethanol	Hydronic heating	Nitrogen
Carbon dioxide	Fire protection	Kerosene	Oxygen
Chilled water	Fuel oil	Low-pressure steam	Potable water
Compressed air	Gray water	Lube oil	Propane
Cooling water	Hydrogen	Natural gas	Vacuum

For more specific information on applications for Viega ProPress for copper, contact Viega Technical Services at 800-976-9819. For a list of applications, please reference the chart on page 17.



Viega ProPress



Viega ProPressG

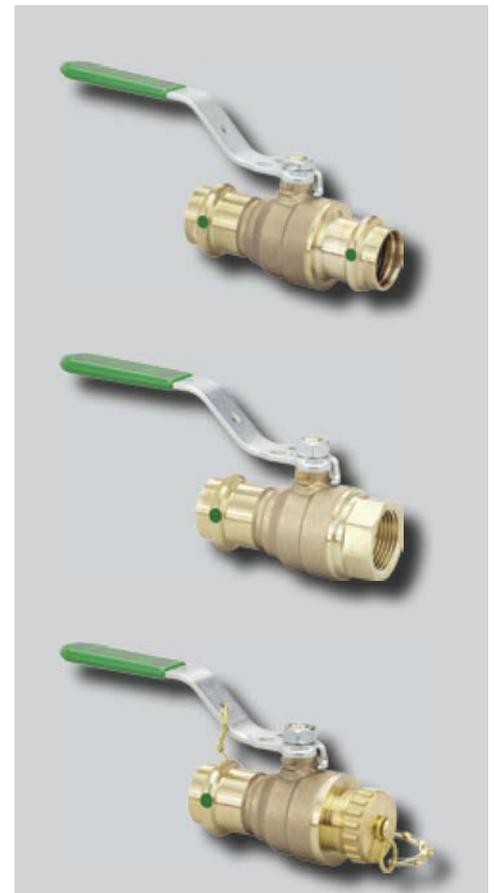
Viega ProPress ball valves for Zero Lead

Viega's ball valves for Zero Lead set a high standard for manufacturing systems intended for potable water applications. Viega ProPress ball valves are manufactured from a material specifically designed for lead-free press systems.

Made from our unique silicon-bronze alloy, engineered for press technology, these ball valves provide the same quality, reliability and performance as all Viega press fittings. The patented Viega Smart Connect feature helps installers easily identify unpressed fittings during pressure testing.

By adding two new ball valve configurations to the existing line, P x FPT and P x Hose thread, Viega offers a solution to suit nearly any need. Installers even have a choice of stems in the existing P x P configuration ball valve, either Eco Brass® or stainless steel.

The 316 stainless steel ball featured in each of these new ball valves comes standard, not as an upgrade. With a forged body and double-stem seal, you can rely on Viega ProPress systems to perform beyond your expectations.



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 A112.4.14-2004 and NSF-61G

COMPLETE STAINLESS SOLUTIONS FOR NEARLY ANY APPLICATION

Viega ProPress for 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, Viega ProPress provides reliable performance, whether you need 316 stainless for a potable water line or 304 stainless for a corrosive chemical line.

Examples of approved applications

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

For more specific information on applications for Viega ProPress for stainless, contact Viega Technical Services at 800-976-9819. For a list of applications, please reference the chart on page 17.



Viega ProPress in 304 Stainless



Viega ProPress in 316 Stainless

Reduce downtime and increase reliability in harsh environments

Viega stainless steel pipe and fittings are well suited for wash down environments, allowing most chemical cleaners to sanitize every surface without compromising the integrity of the pipe or fittings. With multiple configurations like transitions and adapters, Viega ProPress for stainless allows versatility in every application, whether the entire installation is new or only sections are being repaired. Viega press connections can be made with no shutdowns, which minimizes costly downtime.

- More than 600 stainless fittings in multiple configurations
- Available in sizes ½" to 4"
- Flameless press technology eliminates welding
- NSF approval on 316 stainless for drinking water applications
- Pipe, valves and fittings available in 316 stainless
- Pipe and fittings available in 304 stainless
- Backed by a limited warranty
- Viega Smart Connect feature helps installers easily identify unpressed connections

“With Viega ProPress, we can work while the production line is running. It’s all durable, and that was the main driver for going with stainless. I can certainly say, big or small, we use Viega systems. That’s our standard.”

Eric Sweet, President, Northeast Process Systems Inc., Contractor for Gorton’s Seafood

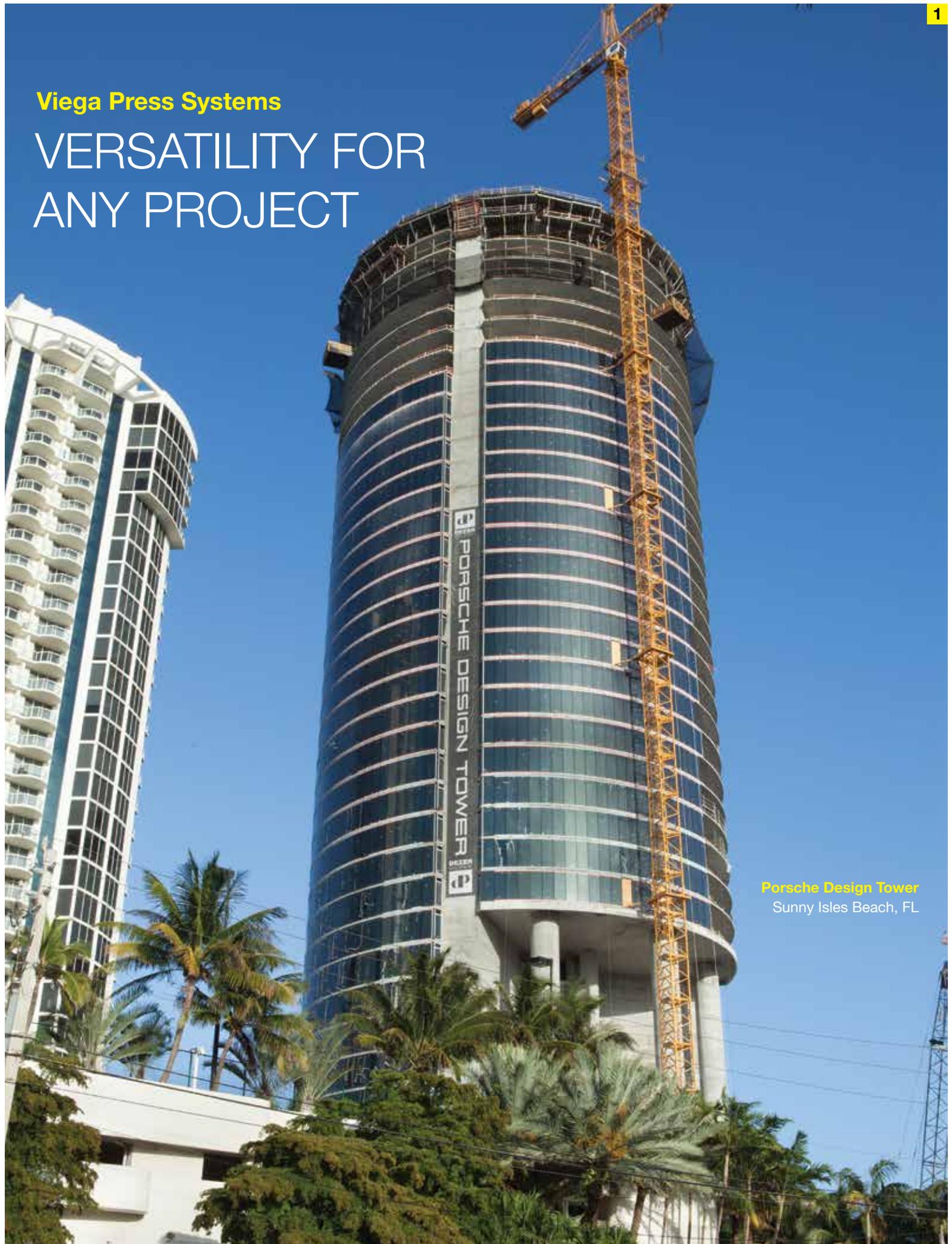


“Viega offers an FKM sealing element that can be cleaned with the chemicals that we use. If we did get something in one of our lines, we could go back through and clean it and not worry about the seal.”

Eric Sochor, Industrial Maintenance Technician, Founders Brewing Co.

Viega Press Systems

VERSATILITY FOR ANY PROJECT



Porsche Design Tower
Sunny Isles Beach, FL

1. Porsche Design Tower

Location: Sunny Isles Beach, FL
Contractor: Olympia Plumbing
Installed: Viega ProPress in 1/2" to 4" copper for the domestic and potable water and Viega MegaPressG in 1/2" to 2" for gas

From the beginning with the engineering firm, to the experience contractors already had using the system, the 650-foot Porsche Design Tower is an example of how seamlessly a project can run from conception to completion.



2. Tobey Building

Location: Concord, NH
Contractor: SAM Mechanical Services
Installed: Viega MegaPress for chilled water

The industrial-style Tobey Building on the New Hampshire Hospital campus was renovated and now has one of the most state-of-the-art HVAC systems in the U.S.



3. Founders Brewing Co.

Location: Grand Rapids, MI
Contractor: In-house maintenance
Installed: Viega ProPress for 304 stainless for installation of hot and cold process water, compressed air, CO2 and chemical disinfecting lines

With the completion of a \$45 million expansion, Founders encompasses an entire city block and boasts the production space necessary to keep up with the increasing demand for its award-winning beers.

4. Soldier Field

Location: Chicago, IL
Contractor: Hill Mechanical Corp.
Installed: 27,000 linear feet of 1/2" to 4" copper joined with Viega ProPress fittings

Hill Mechanical Corp. undertook a 20-month renovation project to update Soldier Field's mechanical systems and add more amenities.

“ WE SAW HOW WELL VIEGA PRESS TECHNOLOGY WAS ACCEPTED. ALL OUR CONTRACTORS STARTED SUBMITTING IT FOR USE. ”

-Mike Torrey, Plumbing Department Head, Steven Feller P.E., PL, Ft. Lauderdale, FL

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 in 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 black iron pipe that can be installed in both hydronic and gas applications, industrial, commercial or residential.

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-61 Annex-G
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.

Versatile options to choose from

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 ProPress fittings are available with EPDM, HNBR and FKM sealing elements. Viega MegaPress fittings are available with EPDM and HNBR sealing elements. See chart for specific applications.



EPDM Sealing Element



HNBR Sealing Element

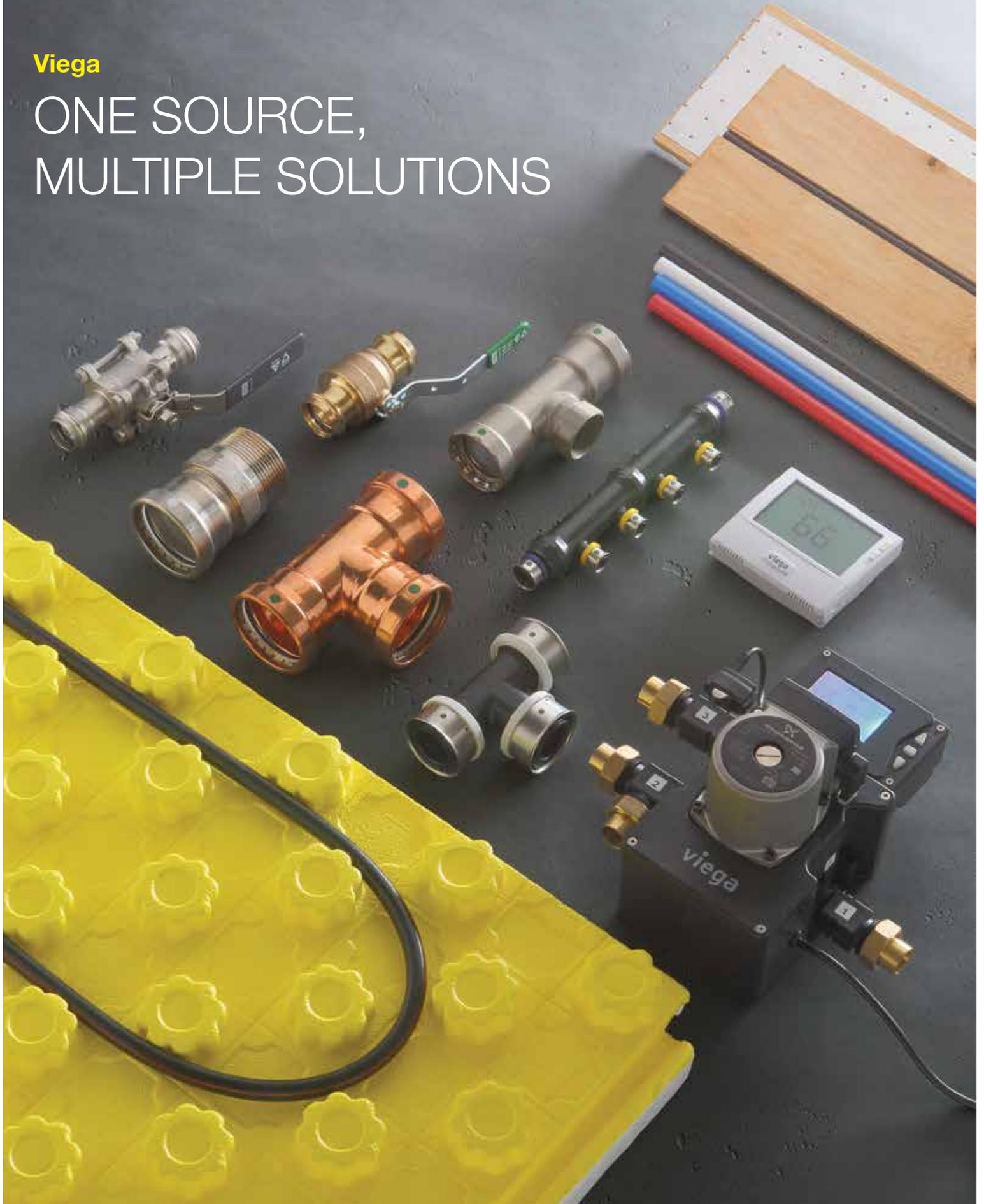


FKM Sealing Element

Types of Service	System Operating Conditions			ProPress 304 Stainless	ProPress 316 Stainless	ProPress	ProPressG	MegaPress	MegaPressG
	Comments	Pressure	Temperature	FKM	EPDM	EPDM	HNBR	EPDM	HNBR
Fluids/Water									
Hot and Cold Potable Water		200 PSI	32°F-250°F		√	√			
Rainwater/ Gray Water		200 PSI	Note 3		√	√	√		
Fire Sprinkler		175 PSI	Note 3	√		√		√	
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	158°F		√				
Low-Pressure Steam		Up to 15 PSI	248°F	√	√	√		√	
Isopropyl Alcohol		200 PSI	75°F		√				
Latex Paint		200 PSI	32°F-250°F		√				
Methyl Ethyl Ketone		200 PSI	100°F		√				
Nitric Acid	10%	200 PSI	73°F	√	√				
Phosphoric Acid	25%	200 PSI	Ambient		√				
Paraffin Wax		200 PSI	100°F	√					
Fuel, Oil and Lubricant									
Heating Fuel Oil		125 PSI	Note 3	√			√		√
Diesel Fuel		125 PSI	Note 3	√			√		√
Ethanol	Pure Grain Alcohol	200 PSI	Note 3		√	√			
Propane	Compliant with CSA LC4	125 PSI	-40°F-180°F				√		√
Butane	Compliant with CSA LC4	125 PSI	-40°F-180°F				√		√
Kerosene		Note 3	68°F	√			√		√
Lube Oil	Petroleum Based	200 PSI	Note 3	√			√		√
Gases									
Compressed Air	Less than 25mg/m ³ oil content	200 PSI	Note 3	√	√	√	√	√	√
Compressed Air	More than 25mg/m ³ oil content	200 PSI	Note 3	√			√		√
Natural Gas	Compliant with CSA LC4	125 PSI	-40°F-180°F				√		√
Oxygen - O ₂ (nonmedical)	Keep oil and fat free / non-liquid O ₂	140 PSI	Up to 140°F		√	√	√	√	√
Nitrogen - N ₂		200 PSI	Note 3	√	√	√	√	√	√
Carbon Dioxide - CO ₂		200 PSI	Note 3			√	√	√	√
Ammonia	Anhydrous	200 PSI	122°F	√					
Acetylene		200 PSI	86°F	√	√				
Argon	Welding Use	200 PSI	Ambient		√	√	√	√	√
Hydrogen - H ₂		125 PSI	0°F-250°F		√	√	√		
Vacuum		29.2 in Hg	Note 3	√	√	√	√	√	√
1. All systems are recommended to be clearly labeled with the fluid or gas being conveyed. For further information please consult Viega Technical Services.									
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.									
3. System pressure and temperature ranges depend on sealing element.									

Viega

ONE SOURCE,
MULTIPLE SOLUTIONS



Viega provides complete systems that work together with consistent, reliable excellence. Whether you are installing a potable water system or specifying a corrosive chemical line, Viega offers a system solution that is engineered and easy to install. In every circumstance, for nearly every application, Viega has the innovative solution you need to do your job right the first time. With proven quality, time-tested efficiency and personalized service, Viega is your solution.

Viega is the first manufacturer with press systems in multiple pipe joining materials.

Viega ProPress for copper and stainless and Viega MegaPress for black iron help reduce installation time up to 60% and are approved for use in the largest range of applications. Viega press systems offer the patented Viega Smart Connect feature, the only proven pressed fitting detection method on the market, so you can trust that connections are secure.

Viega offers the most complete potable water plumbing systems in North America.

With the first press fittings for PEX, the innovative Viega ManaBloc homerun plumbing system and PEX tubing with the highest chlorine and UV protection ratings in the industry, Viega provides premium options for your next plumbing project. Made in the USA and designed to save energy, Viega PEX solutions reduce the potential for leaks and increase confidence and peace of mind.

Viega heating and cooling systems are highly engineered to be user friendly.

From start to finish, Viega ProRadiant systems offer the highest-quality, most complete radiant heating solutions in the industry. With ViegaPEX Barrier tubing, manifolds, controls and innovative systems, Viega provides everything you need to specify or install radiant heating, cooling or snow melting projects. And with personalized design service and on-site field support, you can get the assistance you need to stay on schedule.



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 the Smart Connect feature with an EPDM sealing element. A yellow dot on a Viega ProPressG and MegaPressG fitting indicates the Smart Connect feature with an HNBR sealing element. A white dot on a Viega ProPress (304 FKM) fitting indicates the Smart Connect feature with a 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-G through testing under NSF/ANSI 372 (0.25% or less maximum weighted average lead content).

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