

Viega MegaPress XL System Installation Manual



The global leader
in plumbing, heating
and pipe joining systems

viega



Heritage of quality, vision for the future

Viega's heritage of superiority demands nothing but the best for our customers. Engineered to be efficient, Viega products perform at the highest possible level, providing confidence and peace of mind. Viega is the only manufacturer to offer press systems in multiple pipe joining materials. More than one million Viega press fittings are installed every day around the world and, with a Supply Chain that can process orders in 48 hours or less, Viega is positioned to provide customers with the best, most versatile support in the industry.

Introducing the Viega MegaPress XL system

We all want the advantage in our favor. That extra inch. That "secret weapon." A competitive edge that is so far superior, it's almost unfair. For pipefitters specializing in carbon steel, that unfair advantage is finally here with MegaPress XL. Gain the edge today with the newly innovated, meticulously engineered, revolutionary press fitting system designed for 2½" – 4" diameter pipe. Only MegaPress XL makes installation faster, provides more control at less cost, and gives pipefitters the smart, reliable connection they need to stay ahead. Simply put, if MegaPress XL isn't part of your toolbox, you're putting yourself behind.

Do more with Viega

Viega press technology is consistent and reliable, providing the same quality pipe connections every time. Viega press systems make secure connections in less than seven seconds, which helps keep a project on time or ahead of schedule. The Viega MegaPress XL system helps installers accomplish more in the same amount of time.

A true innovator since 1899, Viega is at the forefront of pipe joining technology. With personalized support, efficient delivery processes and trustworthy quality, no other manufacturer can provide the same level of service. The global leader in plumbing, heating and pipe joining systems, Viega is the name you can trust.

IMPORTANT NOTE:

A WHITE DOT ON A VIEGA MEGAPRESS XL FITTING INDICATES THE SMART CONNECT TECHNOLOGY WITH AN FKM SEALING ELEMENT. FOR A CURRENT LIST OF APPLICATIONS, PLEASE VISIT WWW.VIEGA.US/APPLICATIONS.

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





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1 System Description

The Viega MegaPress XL fitting system is a state-of-the-art IPS press fitting system that provides an economical and reliable installation of schedule 5 to schedule 40 ASTM A53, A106, A135 and A795 steel pipes. Viega MegaPress XL fittings are available in sizes ranging from 2½" to 4" and provide a fast, reliable, consistent joining method.

Our products are the result of decades of experience in manufacturing press fittings. The Viega MegaPress XL fitting system is offered in configurations that allow for the installation of the vast majority of black iron piping applications in the residential, commercial and industrial markets.

The Viega MegaPress XL fitting system requires no threading or welding and poses no fire hazard, which is particularly important in restoration or retrofit work. The press fittings are installed with a battery-powered or corded pressing tool.

The advantages of installing Viega MegaPress XL fitting system include:

- Most labor savings
- Lower overall installed cost
- Proven joining technology
- Technical field support
- Drastically reduces installation time
- No special certification required

1.1 Viega MegaPress XL

Viega MegaPress XL 2½" to 4" fittings feature an FKM sealing element suitable for the following applications:

- Hydronic Heating
- Chilled Water
- Compressed Air
- Low-Pressure Steam
- Fire Sprinkler Systems
- Fuel and Lube Oil

For more information, see Table 1.1 Approved Applications on Page 6.

1.1.1 Approvals and certifications

- IAPMO PS 117
- ICC LC1002
- TSSA
- FM Class 1920
- CRN #0A14541.6
- UL 213

1.1.2 Codes

- ASME B31, 31.1, 31.3, 31.9
- ICC International Plumbing Code
- ICC International Mechanical Code
- IAPMO Uniform Plumbing Code
- IAPMO Uniform Mechanical Code
- PHCC National standard plumbing code
- NFPA 13, 13D and 13R

1.1.3 Operating parameters

Operating temperatures: 14°F to 284°F, can handle temperature spikes up to 356°F

Operating pressure: 200 psi max.

Note: All systems must be installed per local code requirements.

1.2 Fitting description

Viega MegaPress XL fittings are constructed of carbon steel with a corrosion-resistant zinc/nickel coating.

Viega MegaPress XL fittings contain a stainless steel grip ring and PBT separator ring as shown in Figure 1.1. The grip ring is a 420 stainless steel ring with teeth that grip the pipe and ensure that the fitting is locked securely to the piping.

The PBT separator ring ensures that the sealing element and grip ring perform at maximum capacity by providing a positive physical separation.

PressBooster with built-in actuator and rings are available for various dimensions. Their constant compression produces a positive, nondetachable, mechanical joint.

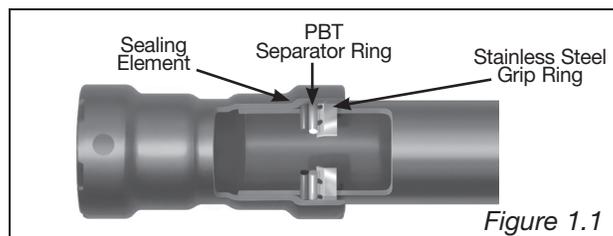


Figure 1.1

1.2.1 Viega Smart Connect technology

Viega MegaPress XL system sizes 2½" to 4" incorporate the Viega Smart Connect technology, which assures a path for liquids and/or gases to escape from inside the system past the sealing element of an unpressed connection. The function of this technology is to provide the installer quick and easy identification of connections that have not been pressed prior to putting the system into operation.

Press systems without the Viega Smart Connect technology may not leak initially; however, they may unseat during future system operation. The Viega Smart Connect technology is designed to protect from this potential risk. See Figure 1.2.

The Viega Smart Connect technology is a quick and easy way for installers to identify connections that need to be pressed. Testing for leaks using the Viega Smart Connect technology is not a replacement for testing to the requirements of local codes or standards.

1.2.2 Testing

All system testing shall be carried out in accordance with the local code or authority having jurisdiction. Viega recommends air testing of gas systems to be a minimum of ½ psi.

1.2.3 Sealing element

The Viega MegaPress XL system is available with the following factory-installed sealing element:

Viega MegaPress XL FKM Sealing Element
 Operating temperature: 14°F to 284°F (-10°C to 140°C)

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

FKM, a fluoroelastomer, is dull black in color. It possesses excellent resistance to aging, ozone, sunlight, weathering, environmental influences, oils and petroleum-based additives. Its superb 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. It can withstand heat spikes up to 356°F.

Note: All sealing elements are installed using an H-1 food grade silicone oil lubricant registered with NSF, USDA and approved for use under FDA 21 CFR.

Note: Refer to product line application guides or chemical compatibility matrix for general information, or call Viega Tech Services at 1-877-843-4262.

1.2.4 Fitting markings

Markings on Viega MegaPress XL fittings include:

- White Dot: FKM sealing element and Smart Connect technology
- S58
- UMC
- Size of fitting
- Manufacturer name
- Manufacturer date code

1.3 Applications

Listed below are common applications approved by Viega for Viega MegaPress XL fitting systems. See Table 1.1.



Type of Service	System Operating Conditions			MegaPress XL
	Comments	Pressure	Temperature	FKM
Fluids/Water				
Chilled Water	Ethylene Glycol Propylene Glycol	200 psi	Down to 14°F	√
Hydronic Heating	Ethylene Glycol Propylene Glycol	200 psi	Up to 284°F	√
Fire Sprinkler	Compliant with FM for NFPA 13, 13D and 13R	175 psi	Ambient	√
Low-Pressure Steam		Up to 15 psi	Max. 248°F	√
Oils				
Lube Oil	Category F-1	150 psi	250 °F	√
Fuel Oil		200 psi	200°F	√
Hydraulic Oil		200 psi	200°F	√
Gases				
Compressed Air	Oil Concentrate < 25mg/m3	200 psi	Up to 140°F	√
Vacuum		Max. 29.2 in Hg	Up to 140°F	√
Oxygen Nonmedical	Keep oil and fat free / nonliquid	140 psi	Up to 140°F	√
Nitrogen		200 psi	Up to 140°F	√
Argon		200 psi	Up to 140°F	√
Carbon Dioxide		200 psi	Up to 140°F	√
1. Consult the Viega Technical Support Department for information on applications not listed and applications outside the temperature and pressure ranges listed above.				
2. All systems are recommended to be clearly labeled with the fluid or gas being conveyed. For further information please see the Viega technical bulletin TB-PIPELABELING				

Table 1.1 Approved Applications

2.1 Tools

Viega recommends RIDGID press tools, Viega MegaPress XL jaws and ring sets and Viega PressBooster tools manufactured by Ridge Tool Company for use with Viega Systems.

Viega MegaPress XL products carry a limited warranty against defects in material and workmanship. The RIDGID lifetime warranty applies to tools, jaws and press rings from The Ridge Tool Company. For more information, contact Ridge Tool Company at 1-888-743-4333 or visit www.RIDGID.com.

2.2 Pressing tools

The following RIDGID pressing tools are available for the Viega MegaPress XL pressing system:

- RP 340-B Battery Powered Press Tool
- RP 330-B Battery Powered Press Tool
- RP 330-C Corded Press Tool
- Viega 26200 PressBooster with 2½" MegaPress XL ring
- Viega 26201 PressBooster 3" and 4" MegaPress XL rings



Viega 26200 PressBooster
With 2½" MegaPress XL ring



Viega 26201 PressBooster Rings
with 3" and 4" MegaPress XL rings



RP 330-B
½" - 2"



RP 330-C
½" - 2"



RP 340-B
½" - 2"

RIDGID® is a registered trademark of Ridge, Inc.

3 General Installation Instructions

3.1 Pipe selection

Viega MegaPress XL 2½" to 4" fittings are compatible with ASTM A53, A135, A106 and A795 Schedule 5 to Schedule 40 black iron pipe.

3.2 Handling instructions

Viega MegaPress XL components shall be free from dirt, debris or items that may interfere with the sealing element and the press connection. Pipe shall be cut using a pipe cutter or metal saw. It is not acceptable to cut the pipe with an abrasive cutting wheel or torch.

3.3 Pipe preparation

In general there are three pipe types typically used in black iron pipe applications:

Painted black iron pipe

Painted black iron pipe shall be inspected for excessive paint runs. Excessive paint runs shall be smoothed using a fine-grit sandpaper or abrasive mesh cloth.

Painted and lacquered black iron pipe

Due to the inconsistency of black iron pipe surfaces that are painted and lacquered, it is a requirement to smooth the pipe surface using a fine-grit sandpaper or abrasive mesh cloth.

Epoxy coated black iron pipe

Due to the thickness of the coating applied to coated black iron pipe, it is necessary to reduce the coating thickness with a fine-grit sandpaper to allow the installation of the Viega MegaPress XL fitting.

Pipe surfaces for each type of pipe must be smooth, free of indentations, pits and deformations and must be clean and free of debris, rust, scale, oil and grease.

It is not necessary to completely remove protective coatings or to expose the bare steel material.

Pipe ends are to be square and de-burred internally and externally. The pipe end shall be prepped to the proper insertion depth. See Table 3.1.

To avoid leak paths, engraved or stamped pipe shall not be used with the Viega MegaPress XL fitting system.

Engraving or stamping shall not be removed through use of a grinder or other tool.

Pipe Size	Insertion Depth	
	in	mm
2½"	1 ¹³ / ₁₆ "	46
3"	2 ⁵ / ₁₆ "	59
4"	3 ¹ / ₈ "	80

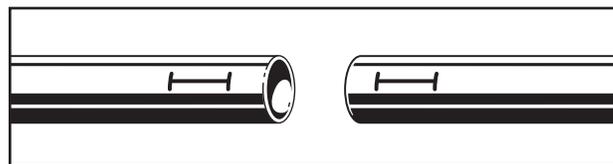
Table 3.1

Viega MegaPress XL sealing elements, separator rings and grip rings are to be visually inspected prior to installation to ensure the seal is intact and properly located within the fitting. See "1.2 Fitting description" on Page 4 for more information. Viega MegaPress XL sealing elements may not be removed or replaced.

The Viega MegaPress XL system does not require lubrication of the pipe or the fitting. Proper insertion depth must be marked on the pipe. Refer to Table 3.1. Improper insertion depth may result in an improper seal. The depth marking shall be visible on the completed assembly.

3.3.1 No-stop couplings

No-stop couplings and extended no-stop couplings are often used to conduct repairs. Without a stop, these couplings can slide completely onto a pipe and allow a connection to be made in tighter spaces. Unlike fittings with an integrated stop that have a minimum insertion depth, no-stop couplings have minimum and maximum allowable insertion depths. Both the minimum and the maximum insertion depths must be marked and a line connecting the two marks. Drawing a line between the minimum and maximum insertion marks distinguishes a good connection on a no-stop fitting from a bad connection on a fitting with a stop.



Viega MegaPress XL No-Stop Couplings				
Pipe Diameter	Minimum Insertion		Maximum Insertion	
	in	mm	in	mm
2½"	1 ¹³ / ₁₆ "	46	3 ¹ / ₈ "	79
3"	2 ⁵ / ₁₆ "	59	3 ¹¹ / ₁₆ "	93
4"	3 ¹ / ₈ "	80	4 ³ / ₈ "	120

Table 3.2

3.4 Pressing requirements

The following requirements must be considered when pressing Viega MegaPress XL fittings.

3.4.1 Minimum distance between fittings

Space between fittings must be provided for the proper operation of the press jaw or press ring. (Refer to chart below.) Failure to provide this distance may result in an improper seal.

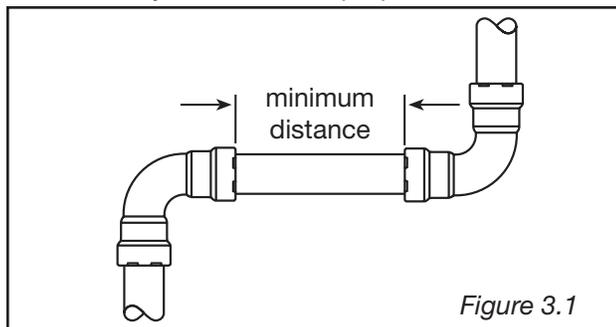


Figure 3.1

Minimum distance between two Viega MegaPress XL press connections 2½" to 4"		
Pipe Diameter	Minimum Distance (in)	Minimum Distance (mm)
2½"	¾"	10
3"	¾"	10
4"	¾"	10

Table 3.3

3.4.2 Minimum space requirements for the press fitting process in front of and behind components

Ensure that the space required for Viega system pressing tools is available if press fittings will be executed immediately upstream and downstream from wall or ceiling penetrations.

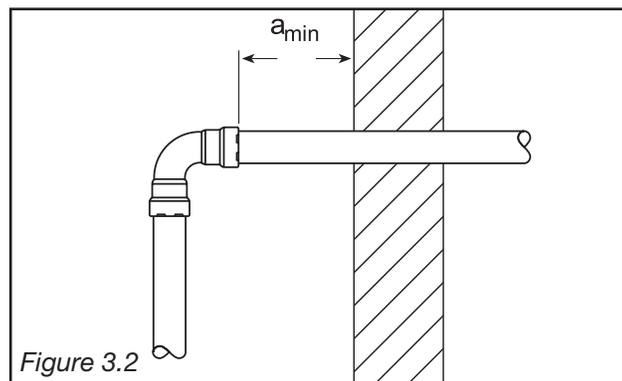
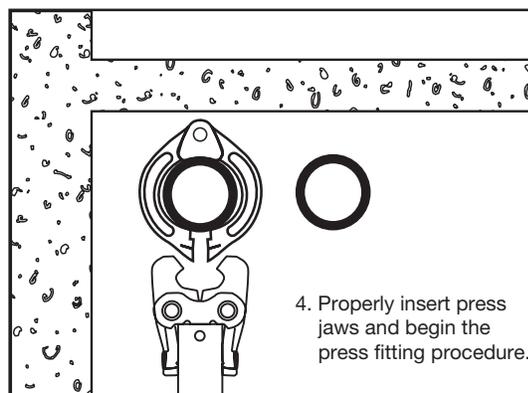
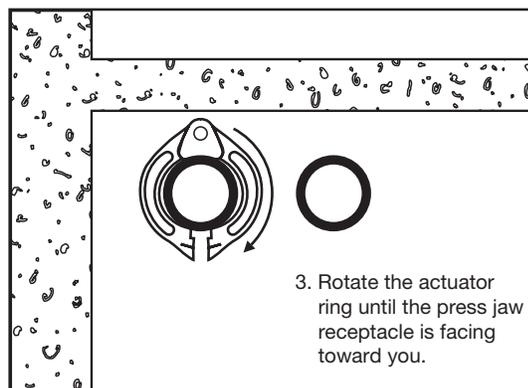
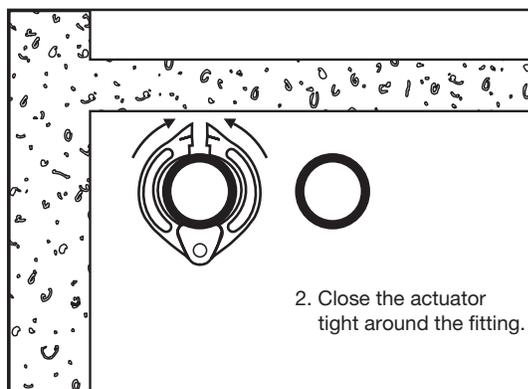
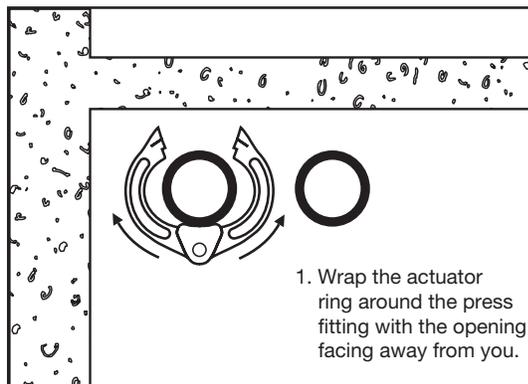


Figure 3.2

Pipe Size	Minimum space requirement, a_{min} for press tools
	RIDGID RP 330-B, 330-C and 340-B Press Tool (in)
2½" to 4"	¾"

Table 3.4

3.4.3 Pressing with ring and actuator in tight quarters



3.5 Welding requirements

The following requirements must be considered when welding in the same vicinity as Viega MegaPress XL fittings.

When pressing next to an existing weld joint, stay 1" away from the weld joint in order to ensure that the press is not happening in the heat affected zone of the weld joint.

3.5.1 Welding adjacent to Viega MegaPress XL fittings

When welding adjacent to a Viega MegaPress XL connection, the installer must remain 4" away from the connection to prevent damage to the sealing element. The installer should take the following precautions to keep the Viega MegaPress XL connection cool while welding:

- Wrapping the connection with a cold, wet rag
- Protecting the connection with a weld blanket
- Fabricating weld connections prior to installing the pressed fitting, making sure the pipe has cooled before installing the fitting
- Consistently applying heat sink gel or spray

3.5.2 Welding in line with Viega MegaPress XL fittings

When welding in line with Viega MegaPress XL fittings, the installer must remain a minimum of three feet away from the Viega MegaPress XL connection to prevent damage to the sealing element. The installer should take the following precautions to keep the Viega MegaPress XL connection cool while welding:

- Wrapping the connection with a cold, wet rag
- Protecting the connection with a weld blanket
- Fabricating weld connections prior to installing the pressed fitting, making sure the pipe has cooled before installing the fitting
- Consistently applying heat sink gel or spray

3.6 General installation requirements

The Viega MegaPress XL fitting system must be installed while considering the following general industry requirements.

3.6.1 Expansion

Thermal expansion in installed systems generates stresses in pipes and appliance connectors. Compensation must be allowed for expansion and contraction that may occur within the piping system. Expansion joints or mechanical expansion compensators may be used to alleviate these stresses.

3.6.2 Electrical bonding

When properly installed, Viega MegaPress XL

fittings comply with Section 1211.15, Electrical Bonding and Grounding, of the Uniform Plumbing Code and Section 310 of the International Fuel Gas Code.

The mechanical press provides continuous metal-to-metal contact between fitting and pipe. The press ensures the continuity of the bonding through this contact.

3.6.3 Piping exposed to freezing temperatures

In the Viega MegaPress XL system, the FKM sealing element can be installed in ambient temperatures down to 14°F. Piping systems exposed to freezing temperatures must be protected per acceptable engineering practices, codes and as required by the local authority.

3.6.4 Corrosion protection

Viega MegaPress XL fittings exposed to corrosive action, such as soil conditions or moisture, must be protected in an approved manner in accordance with NFPA 54 Section 404.8, NACE Standard RP0169-2002 Section 5, 2009 UPC Chapter 6 Section 609.3.1, 2009 UMC Chapter 13 Section 1312.1.3 and in a manner satisfactory to the local code official.

Care should be taken to select hangers of suitable material that is galvanically compatible with the piping system. In addition, piping systems should be properly sized to minimize the risk of erosion corrosion resulting from excessive velocities.

3.6.5 Underground installations

Viega MegaPress XL fitting systems and black iron pipe are approved for underground installations. However, any installations must meet all state and local codes, including those for underground.

Proper authorization must be obtained prior to underground installation from the local authority having jurisdiction.

3.6.6 Pressure testing

The pressure testing of installed pipe is to be completed in accordance with local codes or, in the absence of local codes, in accordance with NFPA 54 or NFPA 58.

3.6.7 Transition connections

Viega MegaPress XL system 2½" to 4" can be joined with off-the-shelf threaded fittings. In this regard:

1. The threaded connection is made first.
2. The press connection is made second.

This process avoids unnecessary torsion.

3.6.8 Pipe hangers

Hangers and supports must conform to the requirements of ANSI/MSS SP 58, Pipe Hangers and Supports, Materials, Design, Manufacture, Selection, Application and Installation. Supports, hangers and anchors are to be installed in a manner that does not interfere with the free expansion and contraction of the piping.

All parts of the support equipment need to be designed and installed to not disengage due to movement of the supported piping. Sliding hangers must be positioned so that they cannot unintentionally become rigid hangers when the system is in use. See Fig. 3.1. Fig. 3.2 shows a sliding piping hanger that becomes a rigid hanger with spacing in excess of 10".

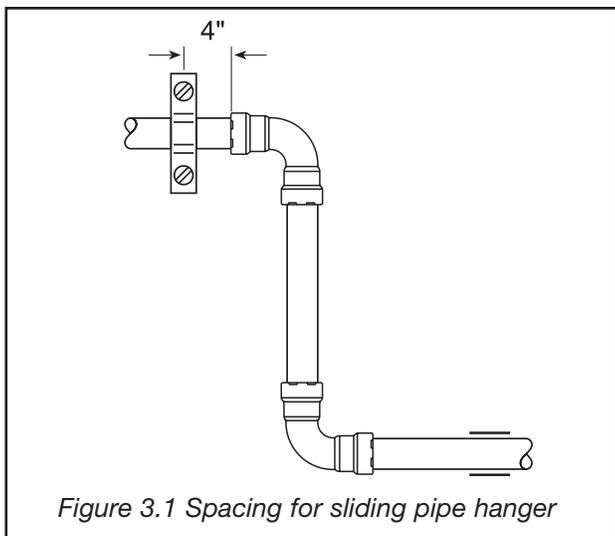


Figure 3.1 Spacing for sliding pipe hanger

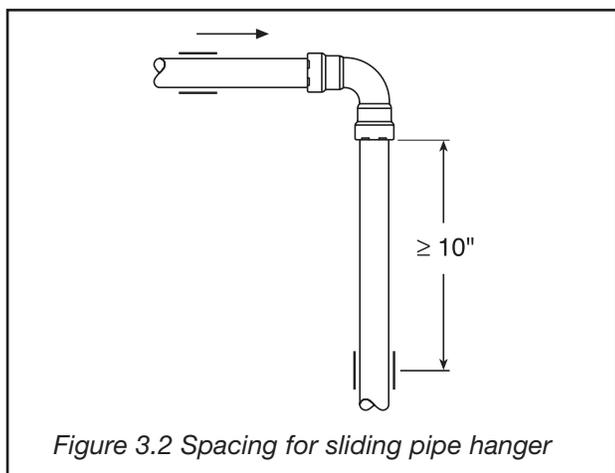


Figure 3.2 Spacing for sliding pipe hanger

3.7 Deflection

When pressing Viega MegaPress fittings in a system, the deformation of the fitting is constant. This allows for a consistent leak-free joint every time and is a result of the pressing technique.

The pressing process can cause deflection (angular misalignment) to occur. Deflection while pressing can be minimized by utilizing the installation practices below.

Alternate sides for presses

- Press one end of fitting
- Make 2nd press on other end of fitting from opposite side
- Site conditions prevail

Push-Pull Method

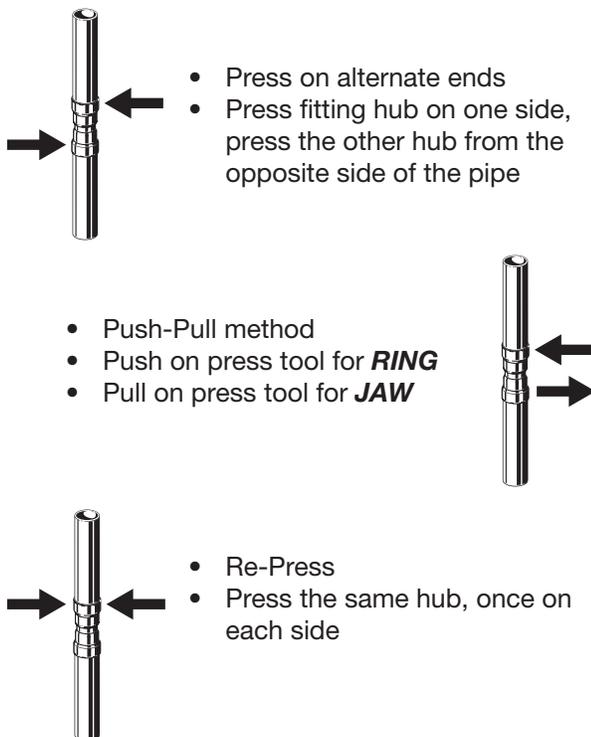
- Rings = Push on press tool
- Jaws = Pull on press tool

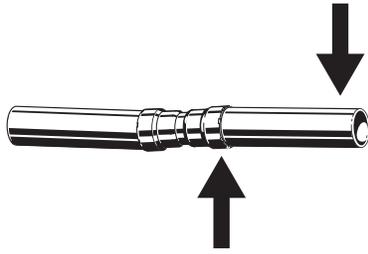
Re-Press

- You can re-press a fitting on the opposite side
- Most times it will kick the fitting back
- 1 shot only

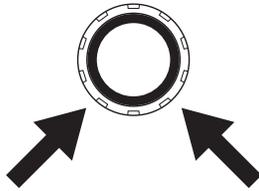
Deflection occurs in the same way for every fitting. The fitting hub you are pressing will move in the direction of the jaw or ring opening.

3.7.1 Controlling deflection





- Since the fitting will deflect toward the opening of the jaw or ring, the pipe end will deflect in the opposite direction.
- By counteracting the fitting movement, one can prevent the deflection of the fitting and ultimately the pipe.
- When using strut and clamps, deflection is minimized and nearly eliminated depending on clamp spacing.



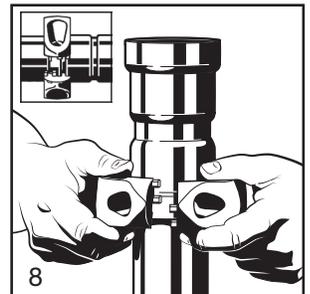
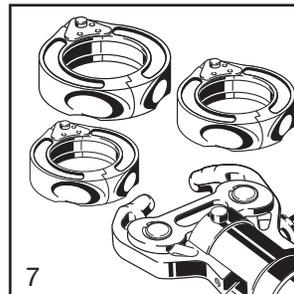
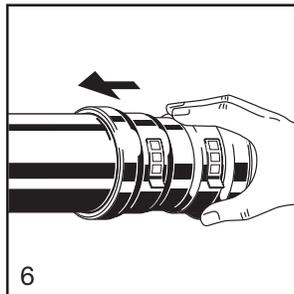
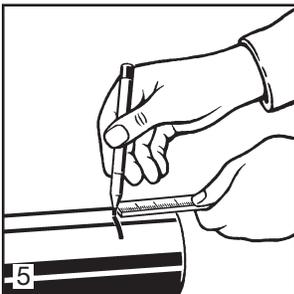
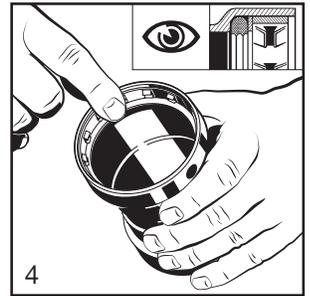
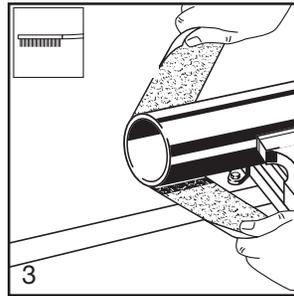
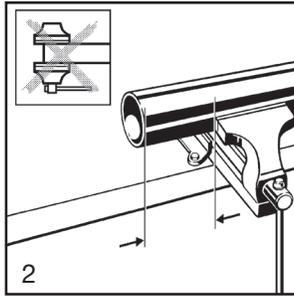
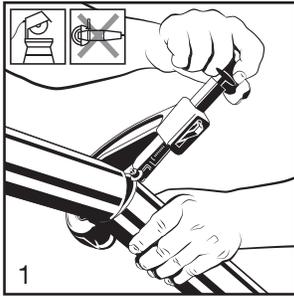
- When pressing overhead piping, it may be inconvenient to alternate sides for each press.
- The natural weight of the piping plus pressing on opposite sides at a 45 should adequately eliminate deflection.
- This technique can also be used for any horizontal piping and also when working above the piping.
- The press tool ram can be feathered by the trigger as needed to permit applying pulling or pushing force to control deflection.

As long as the pipe is properly prepped and marked and the fitting is installed per MegaPress' product instructions, if there is any deflection present after the installation of the fitting, the connection is still acceptable and meets Viega's manufacturing specifications for proper installation and warranty. Deflection of a press connection has no effect on the integrity of the system and it can be pressure tested in accordance with MegaPress product instructions.

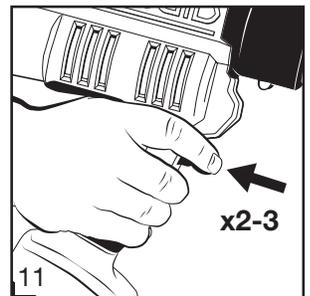
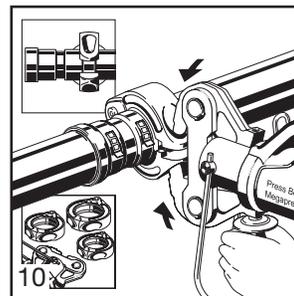
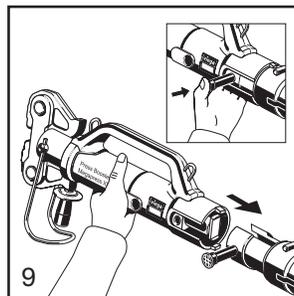
3.8 Identification

All Viega MegaPress XL black iron piping systems should be continuously marked in accordance with ANSI A13.1 or as required by the local authority having jurisdiction.

3.9 Viega MegaPress XL fitting system installation



Insertion Depth	d (in)	d (mm)
2 1/2"	1 13/16	46
3"	2 5/16	59
4"	3 1/8	80



Viega MegaPress Limited Warranty

Subject to the conditions and limitations in this Limited Warranty, Viega LLC (Viega) warrants to end users, installers, and distribution houses that its Viega MegaPress metal press fittings (Viega Product) with application appropriate sealing element when properly installed in non-industrial and non-marine applications and under normal conditions of use shall be free from failure caused by manufacturing defects for a period of ten (10) years from date of installation in Viega MegaPress Approved Applications for fluids/water, oil and lubricant, and gases under Viega specified system operating conditions.

Under this Limited Warranty, you only have a right to a remedy if the failure or leak resulted from a manufacturing defect in the Viega Product and the failure or leak occurs during the warranty period. You do not have a remedy under this warranty and the warranty remedy does not apply if the failure or any resulting damage is caused by (1) components other than those manufactured or sold by Viega, such as black iron pipe; (2) not designing, installing, inspecting, testing, or maintaining the Viega Product in accordance with Viega's installation and product instructions in effect at the time of installation and other specifications and approvals applicable to the installation; (3) use of Viega Product under non recommended system operating conditions, improper handling and protection of the Viega Product prior to, during and after installation, inadequate freeze protection, or exposure to environmental conditions not recommended for the application; or (4) acts of nature, such as, but not limited to, earthquakes, fire, or weather damage. In the event of a leak or other failure of the Viega Product covered by this warranty, it is the responsibility of the end user to take appropriate measures to mitigate any damage, to include making timely 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 on the back cover of this installation manual or telephoning 1-800-976-9819

within thirty (30) calendar 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, document the date of installation, and the amount of the repair or replacement if performed by you. 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 a Viega location and reasonable access to the site of damage. Viega will notify you in writing as to 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 Viega Product covered by this warranty and this warranty applies, the EXCLUSIVE AND ONLY REMEDY under this warranty shall be the reimbursement for reasonable charges for repair or replacement of the Viega Product itself. VIEGA SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR OTHER DAMAGE (FOR EXAMPLE, ECONOMIC LOSS, 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 OR ANY STATUTE OF LIMITATIONS RELATING TO SUCH WARRANTIES. 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.

Viega Limited Warranty for Industrial Applications

Industrial applications are defined as non residential and non commercial applications not normally accessible to the general public, including manufacturing, mining, process or fabrication environments.

Subject to the terms and conditions of this Limited Warranty, Viega LLC (Viega) warrants to end users, installers and distribution houses that its Viega metal press products (Viega product) when properly installed in industrial applications shall be free from failure caused by manufacturing defects 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 Viega product and the failure or leak occurs during the warranty period. You do not have a remedy under this warranty and the warranty remedy does not apply if the failure or any resulting damage is caused by (1) components other than those sold by Viega; (2) not designing, installing, inspecting, testing, or maintaining the Viega product in accordance with Viega's installation and product instructions in effect at the time of installation and other specifications and approvals applicable to the installation; (3) improper handling and protection of the Viega product prior to, during and after installation, inadequate freeze protection, or exposure to environmental or operating conditions not recommended for the application; or (4) acts of nature, such as, but not limited to earthquakes, fire, or weather damage. Final approval as to use compatibility to a specific process or fluid application is the responsibility of the engineer of record or responsible design/facilities personnel and this Limited Warranty only applies to manufacturing defects in the Viega Product.

In the event of a leak or other failure in the Viega product covered by this warranty, it is the responsibility of the end user to take appropriate measures to diminish any damage, to include making timely 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) calendar 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, document the date of installation, and the amount of the repair or replacement if performed by you. 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 a Viega location and reasonable access to the site of damage. Viega will notify you in writing as to 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 Viega Product covered by this warranty and to which this warranty applies, the EXCLUSIVE AND ONLY REMEDY under this warranty shall be the reimbursement for reasonable charges for repair or replacement of the Viega Product itself. VIEGA SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR OTHER DAMAGE (FOR EXAMPLE, ECONOMIC LOSS, 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 OR ANY STATUTE OF LIMITATIONS RELATING TO SUCH WARRANTIES. 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.

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

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