

Viega Marine Systems

Solutions for shipbuilding
and offshore projects



viega



viega

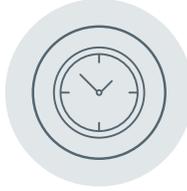
Charting the right course with Viega

In the marine market, tight deadlines and budget constraints are common obstacles to overcome. Being able to join pipe without hot work can make a huge difference. Viega press fittings reduce installation time by 60 to 90 percent, depending on the material, and connections can be made wet or dry. Without the danger and risk of welding, all the trades can work together at the same time, and that means the project gets done – fast.

With distribution centers across North America, Viega offers a full line of fittings and valves designed specifically for joining pipe systems onboard military vessels, commercial vessels, oil platforms, cruise ships and mega yachts. Viega's portfolio includes thousands of marine-approved products, each featuring flameless technology that saves time on installation and are ideal for new construction or repair.

Viega has two lines specific for seawater applications – Viega SeaPress, copper nickel fittings in metric sizes, and Viega MegaPress CuNi, copper nickel fittings in standard sizes. Also consider marine-approved piping systems like Viega ProPress for copper and stainless, Viega MegaPress for carbon steel, galvanized pipe and stainless and Viega PureFlow System for use with PEX plastics.

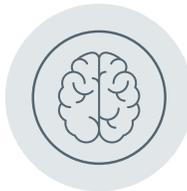
FEATURES + BENEFITS



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 CuNi

CREATED SPECIFICALLY FOR MARINE IN STANDARD SIZES

Viega's MegaPress CuNi is a 90/10 IPS system. The copper nickel alloy fittings are approved for installation in a variety of applications from cooling water to fuel to fire sprinkler and are specifically designed to stand up to the harsh environments of the sea. MegaPress CuNi is the only iron pipe size copper nickel press fitting with a double-press connection, making it the strongest press connection on the market.

Advantages at a glance:

- 90/10 Class 200 or Schedule 40 CuNi pipe
- Well-suited for seawater systems
- One sealing element for all applications
- 90/10 copper nickel
- Can press into a wet or dry system
- No fire watches, hot work permits or gas freeing
- Installation savings of up to 70%

CuNi applications:

- Seawater cooling
- Fire main wet, dry and foam
- Sprinkler system and water spray
- Hot and cold potable water
- Bilge lines
- Foam system
- Ballast system
- Tank cleaning services
- Non-essential systems
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oils
- Domestic heating
- Compressed air systems
- Condensate return
- Vacuum



Now with new approvals!

To see all approvals visit Viega.us/RuleNow

Viega SeaPress

COPPER NICKEL FITTINGS IN METRIC SIZES

Viega SeaPress is a corrosion-resistant, 90/10 copper nickel fitting, built especially for corrosive environments. Viega's cold press technology makes brazing and welding a thing of the past, and there's no fire watch needed. Connections can be completed under the most difficult of conditions. Repairs and modifications can also be carried out while under way at sea.

Advantages at a glance:

- For metric sizes
- 90/10 copper nickel
- Prevents biofouling
- Reduces topside weight
- U.S. and European marine approvals
- Easily adapts to metric and standard systems
- Installation savings of up to 70%
- Extensive range of fittings, flanges and adapters

SeaPress applications:

- Seawater cooling
- Fire main wet, dry and foam
- Sprinkler system and water spray
- Hot and cold potable water
- Bilge lines
- Foam system
- Ballast system
- Tank cleaning services
- Non-essential systems
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oils
- Domestic heating
- Compressed air systems
- Condensate return
- Vacuum



Viega MegaPress and MegaPress XL

THE SUPERIOR CHOICE FOR JOINING CARBON STEEL PIPE

Viega MegaPress is the only clean, secure and efficient choice for joining carbon steel and galvanized pipe, eliminating the need for threading or welding. Choose MegaPress in sizes ½" to 2" or MegaPress XL for connections on larger diameter pipe from 2½" to 4". Suitable for use with Schedule 5 to Schedule 80 carbon steel pipe, the Viega MegaPress line includes more than 200 different engineered fitting configurations and is approved for more applications than any other carbon steel press fitting system. Install MegaPressG, with its HNBR sealing element, in gas applications.

Advantages at a glance:

- No welding or threading
- Eliminates bulky equipment
- Press connections can be made wet or dry
- No need for hot work, fire watch or gas freeing
- Same fitting for metric and standard pipe sizes

MegaPress applications:

- Cooling water
- Fire main and water spray
- Sprinkler
- Low pressure steam
- Compressed air
- Vacuum
- Cargo oil lines
- Fuel oil lines
- Lube oil
- Hydraulic oils
- Condensate



Viega MegaPress Stainless

FOR MORE APPLICATIONS THAN EVER BEFORE

Designed for Iron Pipe Size (IPS) stainless steel, Viega's line of MegaPress fittings in stainless steel make efficient connections possible for more applications than ever before. MegaPress Stainless fittings are available in 304 and 316 stainless steel. MegaPress Stainless is approved for use with Schedule 5 through Schedule 80 pipe in sizes ½" to 2", or choose MegaPress Stainless XL for use with Schedule 10 through Schedule 80 pipe in sizes 2½" to 4".

Advantages at a glance:

- No welding or threading
- Eliminates bulky equipment
- Press connections can be made wet or dry
- No need for hot work, fire watch or gas freeing
- Available in 304 or 316 stainless steel

MegaPress Stainless applications:

- Chemical process lines
- Chilled water
- Compressed air and industrial gases
- Condensate
- Diesel fuel
- Ethanol
- Fuel oil
- Greywater
- Hydronic heating
- Low-pressure steam
- Lube oils
- Potable water
- Steam condensate
- Vacuum (to 29.2 in. Hg)



Viega ProPress

THE INDUSTRY'S MOST TRUSTED CONNECTION

Viega ProPress is the recognized leader in copper press joining solutions. Viega offers hundreds of press fitting choices in stainless steel and copper. ProPress Stainless is ideal for marine applications such as potable water, fuel and compressed air, and is available in both 304 and 316 grades of stainless steel.

Advantages at a glance:

- Flameless press technology eliminates sweating, brazing and grooving
- Press connections can be made wet or dry
- No need for hot work, fire watch or gas freeing
- More than 900 fittings in multiple configurations for copper and stainless
- Available in metric and standard sizes
- Zero Lead compliant

ProPress Copper applications:

- Cooling water systems
- Compressed air
- Fire main and water spray
- Sprinkler systems
- Hot/cold potable water
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oil
- Vacuum

ProPress Stainless applications:

- Cooling water systems
- Fire main and water spray
- Sprinkler systems
- Hot/cold potable water
- Cargo oil lines
- Fuel oil lines
- Lubricating oil lines
- Hydraulic oil
- Domestic heating
- Compressed air
- Condensate return
- General chemical service
- Vacuum



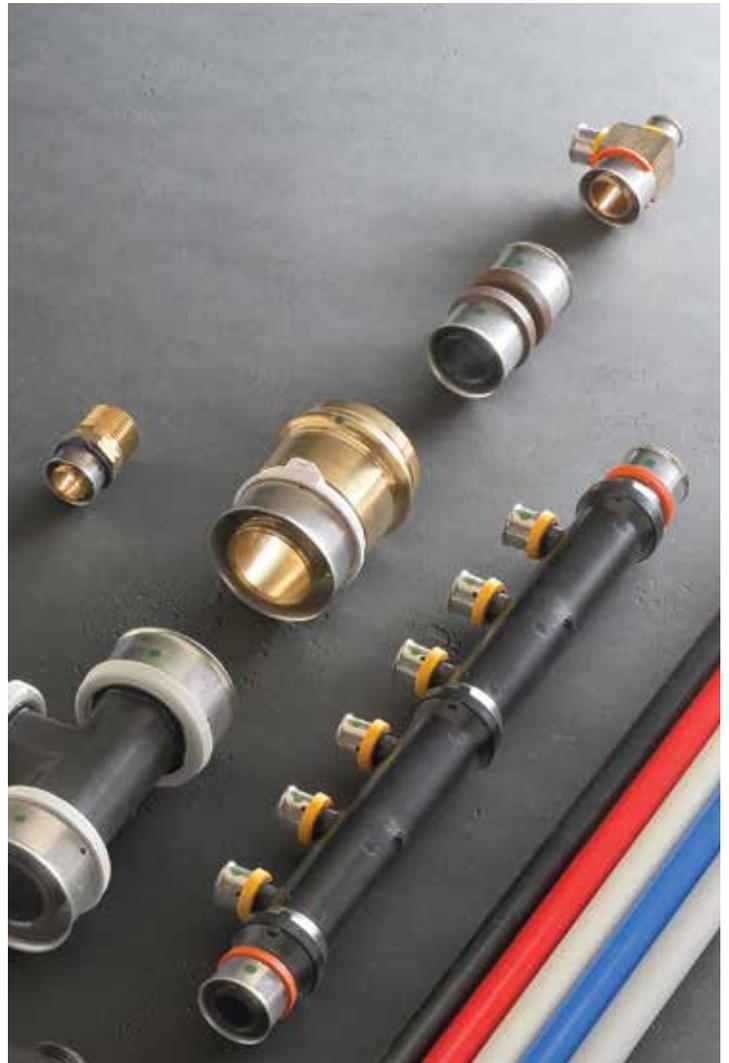
Viega PureFlow System

PRESS SYSTEMS FOR PEX TUBING

With fittings, manifolds and tubing, Viega PureFlow provides everything you need for a total plumbing system. Viega was the first to offer a true press system to the PEX market. Available in sizes 3/8" to 2", Viega PureFlow polymer fittings are made in the United States. Viega PEX has the highest ratings for chlorine and UV resistance, according to industry standards, and Viega PureFlow Press fittings are available in high-performance polymer and Zero Lead bronze.

Advantages at a glance:

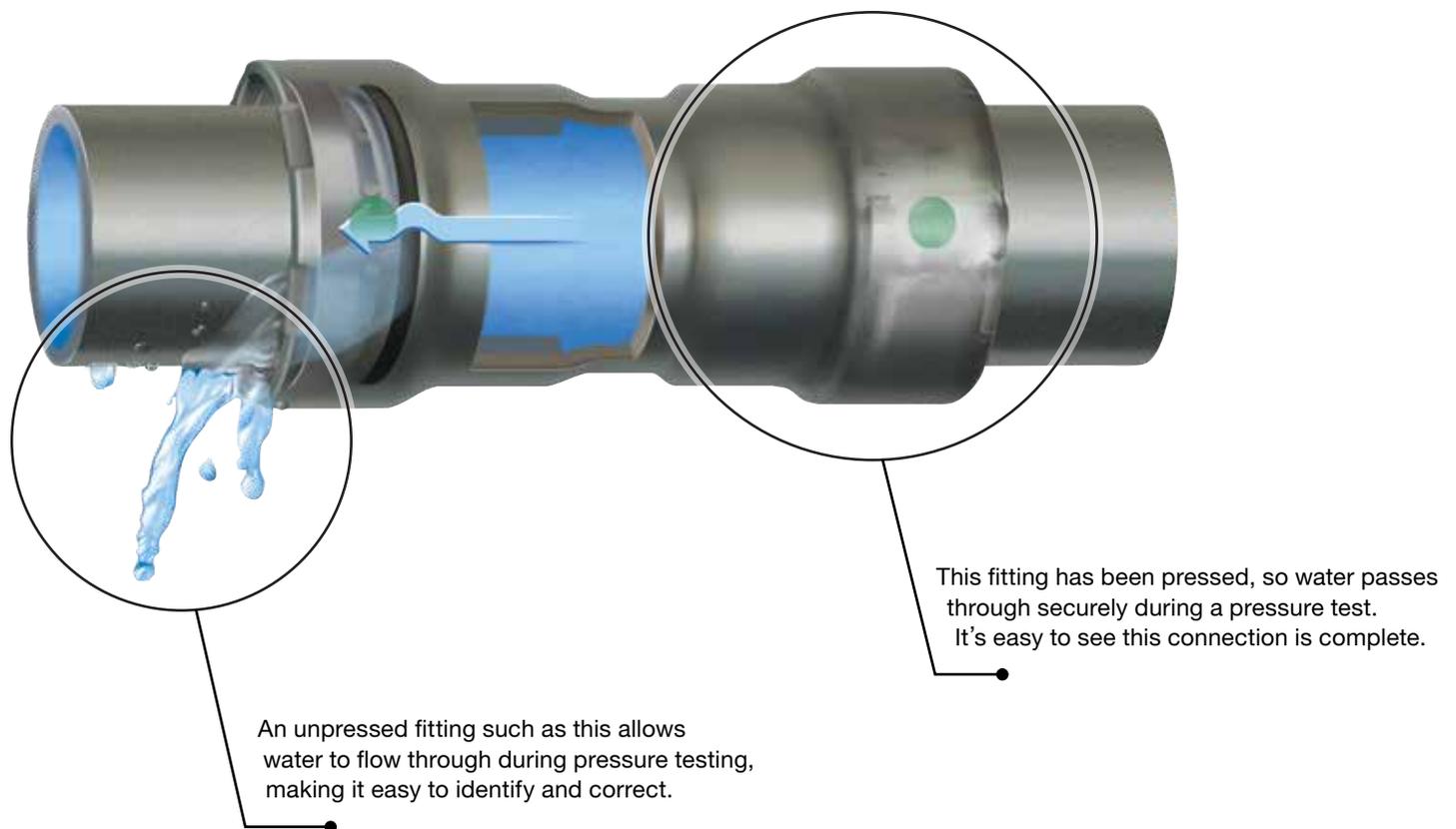
- Flexible and durable
- Bronze or polymer body with stainless press ring
- Bending PEX around obstacles reduces the number of fittings needed
- Press fittings available in two material types
- Secure connections made without adhesives



Viega Smart Connect technology

RELIABLE CONNECTIONS YOU CAN COUNT ON

Viega's patented Smart Connect technology helps installers easily identify unpressed connections, giving peace of mind that a job is done correctly without the potential for leaks. An incomplete connection could cause substantial damage if it holds pressure during a test and then subsequently fails. But Viega's fittings include Smart Connect technology, designed directly into the fitting, to avoid such problems.



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 secure connection.



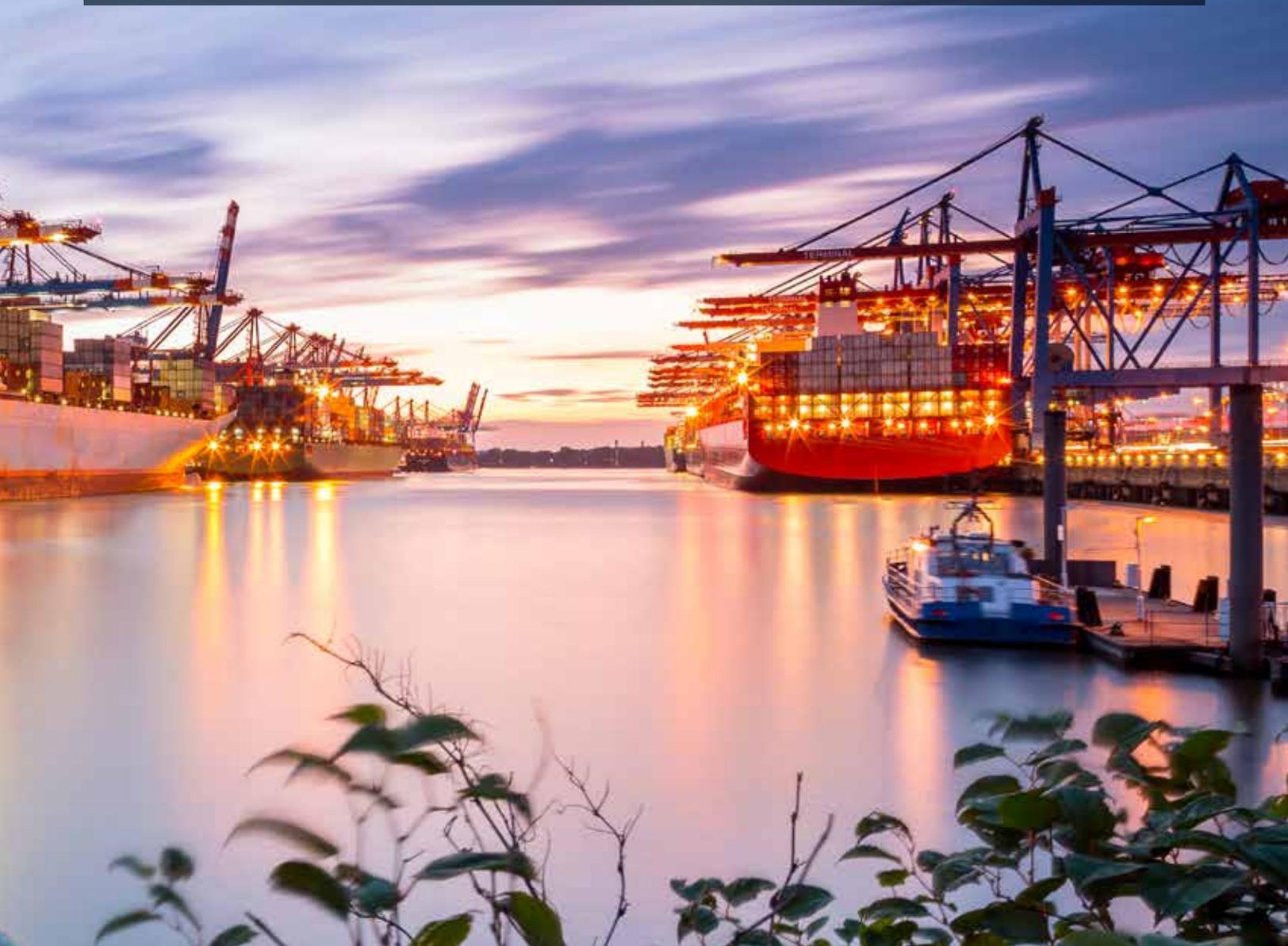
3 Viega press connections are fast, flameless and secure.

SUPPORTING A STRONG COMMERCIAL SHIPBUILDING MARKET

The U.S. commercial shipyard industry, along with its suppliers, remains essential to maintaining the government shipbuilding and industrial ship repair base. Whether you're working on tugs, barges, work boats, passenger ferries, casino boats or inland cruise ships, you can take advantage of Viega's fast, flameless and secure connections.

This is important as ships become more technologically advanced. From the world's first vessels powered by liquified nitrogen gas that reduce sulfur emissions to high-tech navigational software, the marine industry is eager for technology that will keep it running more efficiently and for longer periods of time. That said, many of today's ships maintain similar design styles to minimize risk. In order to meet the demands of schedule and budget, shipbuilders must increase efficiencies and reduce manpower. But that doesn't mean they have to sacrifice productivity.

Viega's press technology extends to a full line of marine press fittings that reduce reliance on qualified welders, hot work permits, gas freeing and chemists. Viega fittings for marine use are tested and comply with the International Association of Classification Societies, so the engineering approvals are already complete.



A large, complex offshore oil platform structure is shown against a blue sky and ocean. The platform is primarily yellow and white, with numerous pipes, ladders, and structural beams. It is supported by several large yellow legs extending into the water. The background shows a clear blue sky and a calm blue sea.

KEEPING OFFSHORE SUPPORT STRONG

Precision and safety are essential for land-based projects and they can matter even more for ocean-based support vessels, drill ships and oil platforms. Downtime and additional expenses aren't an option.

Reducing repair time and the expense of labor means you can focus on doing your job and keeping your crew safe. But can you accomplish that when your work environment is floating on a volatile sea?

With Viega, you can. Flameless press technology means there's no need for hot work permits, chemists, gas freeing or marine-qualified welders. Plus, press connections can be made in seconds on live system so you can complete projects safely in a fraction of the time.

Viega helps you get more done in less time with less money, and you get the peace of mind that comes with Viega's quality fittings.

“We do a lot of water systems in copper nickel because of the longevity of the product. It lasts a lot longer than other materials.”

– Nate Goodwin, Owner, All Points Boats, Fort Lauderdale, Florida

WORKING WITH THE MOST PRESTIGIOUS VESSELS

From humanitarian missions to combat operations, military vessels must be ready to serve when and where they are needed. The high demands of safety, quality and reliability of pipe systems are important when you are protecting the nation.

From the U.S. Coast Guard and the U.S. Navy to the National Oceanic and Atmospheric Administration (NOAA) and Military Sealift Command, Viega fitting systems can be found on a host of marine vessels. With a reputation for quality, naval ships are an industry leader in innovative maritime engineering and construction.

New ships are built and many undergo repair on a daily basis, providing the opportunity for new technology to aid in the time, cost and quality put into each one. Viega has working relationships with many military contractors, subcontractors and shipyards and more are added regularly.

Viega systems are available stateside and in Canada as well as in distribution centers throughout North America and come in a variety of configurations. When it comes to your next repair or new ship construction, take advantage of these savings by choosing Viega.



A large cruise ship is shown from a low angle, sailing on the ocean. The ship is white with multiple decks, blue accents, and orange lifeboats. The sky is clear and blue. The water is calm with some ripples. The ship is moving towards the right of the frame.

BUILT FOR ADVENTURE

While guests are relaxing onboard a cruise ship at the swimming pool or enjoying a meal in the formal dining room, you don't want to worry about the integrity of the mechanical systems.

Or if the need arises to dock for repairs, you want downtime to be minimized as much as possible.

The number of passengers carried by the cruise industry continues to grow, with more than 23 million passengers and 4.5 million crew members cruising each year. Revenues are expected to surpass \$30 billion by the year 2020. In such a booming industry, cruise ship repairs are imminent, but with Viega press technology you can rest easy, knowing you've chosen the right system.

Whether you're the world's largest shipyard in the Bahamas or located in the Port of San Francisco, California, Viega's fittings can be delivered during a quick port visit or for larger dry dock availabilities.

A large white yacht is shown from a side profile, sailing on the water. The sky is a mix of orange and yellow, suggesting sunset or sunrise. The yacht has multiple decks, a radar scanner on top, and several portholes along its side. The water is dark blue with some whitecaps.

THE BEST FOR YACHT BUILDING AND REPAIR

As yachts become larger and more complicated, Viega continues to work closely with manufacturing companies to ensure they are built and maintained properly. With relationships all over the U.S. and Canada, these management companies know the best of the best in the industry. They trust and recommend Viega systems to meet their clients' needs.

With approvals, fast delivery and exceptional customer service, Viega makes quoting and repairing yachts quick and simple. Viega understands that yachts often need repair at a moment's notice. Piping repairs are simple with our press connections, even under the most difficult conditions, whether you're repairing on land or at sea.

“If I’m working on piping a boat, I’m concerned about putting a bunch of welding equipment inside a million-dollar yacht. When you start striking an arc, it’s fire. You’re going to have to have a fire watch and a marine chemist come and make sure the area is safe to work in. I don’t have to worry about that with Viega.”

— Aksel King, Vice President, Engineered Yacht Solutions, Fort Lauderdale, Florida



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

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