

A close-up photograph of industrial stainless steel piping. Several pipes run parallel, held together by black plastic clamps with metal fasteners. The background is blurred, showing more of the industrial environment.

Viega Industrial

Connecting reliability
and efficiency.

viega

The Viega logo consists of the word "viega" in a bold, lowercase, sans-serif font. Below the text is a solid yellow rectangular bar.



Viega.

CONNECTED IN QUALITY.

At Viega, we are convinced that quality is everything. Without quality, everything is pointless. That is why we aim to exceed ourselves – each and every day. For this reason, we are taking responsibility for the future and, together with our customers, we want to actively shape this future without losing sight of our past.

Viega has been connected in quality for over 120 years. Our family-owned company began with the vision of revolutionising installation technology. Today, Viega is one of the world's leading installation technology companies with over 4,700 employees and ten locations. And it still remains true to itself and sets its own high standards.

As a driver of innovation, we think not only in terms of products, but in terms of solutions to make people's lives better and ensure that we can provide constant potable water hygiene, energy efficiency, convenience and safety. Thanks to our intelligent systems, we are installing the lifelines for the buildings of tomorrow. And turning space into living rooms.

It is important to us at Viega to create a dialogue with our customers and to support them in their day-to-day work. To do this, we share our knowledge with customers all over the world, fine-tune the interplay between materials, technology and convenience, take time for quality management, and invest in research and development. The result is a beautifully coordinated system providing customers with fast and reliable access to over 17,000 products.

Quality is everything. Without quality, everything means nothing.





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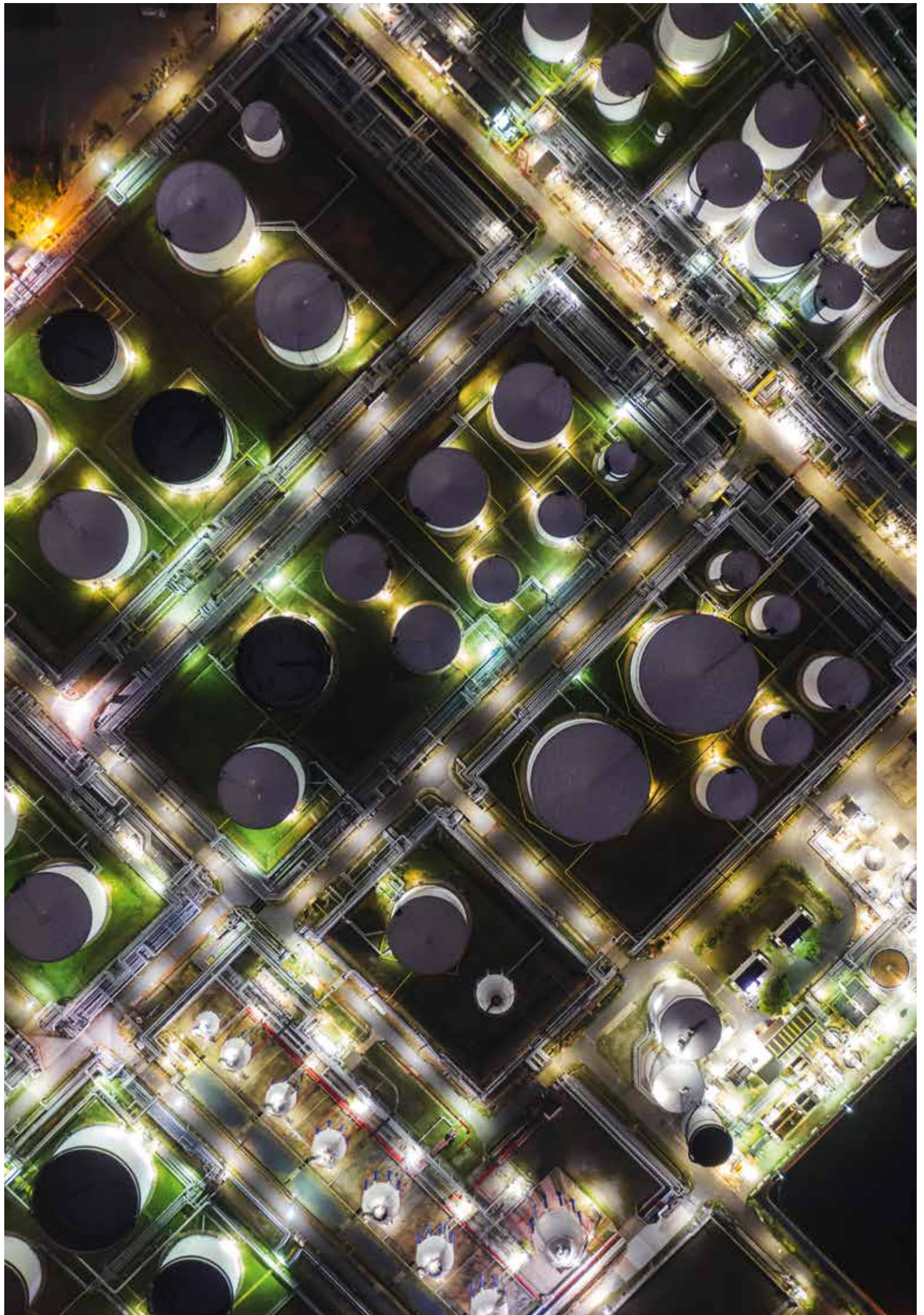
Viega press technology – the first choice for every application.

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Industrial applications and solutions from Viega.

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Global support from a worldwide partner.



Viega press systems

SUPERIOR TECHNOLOGY. PRO TIME SAVINGS – ANTI PRODUCTION DOWNTIMES.

In industrial systems engineering, safe, fast and easy-to-use processes are favourable to ensure that production can be ramped up as quickly as possible. However, many pipelines are still installed using conventional connecting techniques, such as welding. And this is still the case despite the fact that cold-press technology from Viega offers numerous advantages – it is cleaner, more efficient and safer in every respect. It also minimises the challenges posed by shortages of skilled workers and production downtimes.

UP TO

80%

faster

Quick working processes

Pressing pipes together instead of welding or soldering them saves a huge amount of time. With piping and cold-press technology assembly is up to 80% faster depending on dimensions.

Reduced stoppages to production

Nothing is more costly than production at a standstill. Viega cold-press technology prevents these losses in efficiency and productivity thanks to particularly fast and clean assembly processes. The result is a safe connection with guaranteed tightness that can be fully loaded at once. Cooling times and fire watches are now completely unnecessary.

Uncompromising connection quality

Viega cold-press technology is safer, quicker and more efficient than conventional processing methods. Even oversized pipe dimensions can be pressed in seconds, creating a force-fit connection ready for immediate loading. There's no need for reworking and corrections with cold-press technology.



Permanently connected together in just a few minutes. Viega piping systems.



Reliably tight: Viega cold-press technology.

A simple way to expand existing systems

When it comes to the expansion and maintenance of piping systems in production in particular, every minute counts. This is where Viega cold-press technology really comes into its own across the board. Downtime costs are reduced by not having to work with an open flame and therefore not having to protect the working environment from this hazard. Not only does this eliminate the time-consuming preparation and follow-up of the installation (fire watch), but cold-press technology even allows work to be carried out during ongoing production, as there is no risk of fire or dirt entering the system.

Unparalleled safety

With the SC-Contur, a dedicated leakpath, Viega provides unparalleled safety levels for all press systems and ensures visible test reliability in industrial construction and systems engineering. The Viega SC-Contur guarantees that inadvertently unpressed connection points can be identified during the central leakage test. This means that in a dry leakage test (with air or inert gas), the pressure can be seen to drop over the entire pressure range of 22 hPa to 0.3 MPa if there is an unpressed connection. In a test with water in the pressure range of 0.1 to 0.65 MPa, water leaks out from any unpressed points.

Minimal effort required from skilled workers

Welding has to be carried out by qualified professionals. As there are few welders out there on the labour market, these jobs cannot always be completed. And because of heavy workloads, qualified in-house employees already have too much to take care of. However, as a quick-to-learn and easy-to-use method for connecting pipelines, Viega press connecting technology can also take care of this issue. At the same time, the press technology eliminates time-consuming and costly weld seam X-rays, which are required for certain media and applications such as those in the chemical and pharmaceutical sectors.



Pressing instead of welding

VIEGA COLD-PRESS TECHNOLOGY: QUICK, CLEAN, SAFE AND COMPLETELY WELD-FREE.

Replacing welding with cold-press from Viega provides huge advantages for the flow and planning of operational processes. Cold-press technology saves a lot of installation time and does not require trained welders.





1. Easy to use

Welding and soldering require specially trained professionals. Viega press technology, on the other hand, connects pipelines in seconds at the push of a button. And the best part is that pressing is simple, quick and safe. Welding professionals are no longer required in the case of press technology, which means that new installations, expansions and repairs can be carried out simply and easily.

2. No fire protection measures

With cold-press technology from Viega, work can be started immediately, anywhere. This not only eliminates the need for the usual fire protection measures, cooling times and fire watches, but also means that large areas of production facilities and storage rooms no longer need to be protected from dirt and cleaned afterwards. Even in large production buildings and warehouses, this means that work can be started straight away, without hours – or even days – of installation preparation and follow-up.



3. Less baggage and fewer breaks

Welding requires heavy equipment. Carrying heavy gas cylinders and welding apparatus is a back-breaking job, especially if the connection is in an elevated or hard-to-access location. When pressing, all that is required to complete the work is a handy press machine. This saves space and is much lighter. Crucially, welding and soldering are strenuous tasks that always require plenty of breaks. This is not the case with Viega press technology, which lets you keep working at pace.



Viega for industrial applications

RELIABLE LIFELINES FOR ALL PRODUCTION PROCESSES.

With the introduction of the Profipress system in the mid-1990s, and the invention of the SC-Contur in the year 2000, Viega revolutionised the market twice in quick succession. And we didn't stop there. As a global market leader in the installation industry, we see it as our duty to respond to the questions of tomorrow by developing innovative solutions. As we do this, we also benefit from the experience of over 120 years of company success.

Thanks to this wealth of experience, intensive monitoring of the market, and continuously ongoing development of materials and tools, we have been able to develop piping and press connector systems that also stand up to industrial applications. Our systems' properties mean that they can even replace traditional joining techniques in areas where this seemed unimaginable for a long time. The systems are suitable for all

kinds of different media, temperatures and operating pressures, making it possible to replace time-consuming welding or thread cutting with a fast, state-of-the-art solution.

Our industrial partners benefit from our uncompromising quality standards, as well as our own experience in the Viega production facilities which are – of course – equipped with Viega piping and press connector systems. Currently there are ten plants worldwide, and these are constantly expanding. This means that Viega can engage with its partners on an equal footing because we know exactly what challenges are faced by planners, equipment suppliers and installers in the production environment. We are therefore able to install production lifelines in every conceivable industrial segment.





Viega solutions for the potable water supply

HIGHEST QUALITY FOR WATER.

There is one word in production that is feared beyond all others: standstill. This is also the case when it comes to the potable water supply. This is because stagnant water can lead to serious health hazards for the workforce. In the worst case scenario, it can even heat up of its own accord inside the piping system. Possible consequences include bacterial or legionella contamination. For partners working in industrial applications, Viega offers customised solutions for a constantly flawless supply of potable water.

Challenges in industrial applications

The regulatory requirements are clear – as soon as a company begins to operate a potable water system with access to the draw-off points, as the operator, it is also responsible for maintaining the quality of the potable water. This is the

case regardless of the building's purpose. And this can also come with unexpected challenges. In unused areas of large office buildings, maintaining potable water quality can quickly become an issue, for example during company holidays or because of completely unplanned interruptions such as the lockdown due to Covid 19 in spring 2020.

The right materials to maintain potable water quality

When operating potable water installations, it is absolutely essential to pay close attention to hygiene maintenance. Selecting the right materials is just as important. The properties of the Viega press systems Sanpress Inox, Sanpress and Profipress make them perfect for hygienic potable water installations.

AquaVip Solutions: digitally connected potable water hygiene

AquaVip Solutions is based on a fully digitally connected potable water installation. This enables the potable water system to be intelligently planned and managed on an ongoing basis, taking into account all of the facilities engineering.



The Viega universal flush valve and Viega flushing station combat stagnation

Potable water facilities must be operated in accordance with specific conditions. These include regular water exchange, which must be carried out at least every three or seven days. To maintain potable water quality in areas with foreseeable usage interruptions, it is advisable to install suitable components that ensure regular water exchange. The Viega universal flush valve and the Viega flushing station with Viega Hygiene+ function prevent germs caused by stagnation in pipelines thanks to regular water exchange.

Easytop extraction valves – checking potable water hygiene made easy

Being able to take water samples under conditions comparable to those in a laboratory is just one of the strong points of Easytop extraction valves. As well as a one-part extraction valve, a two-part version is also available. The two-part system is made up of a stainless steel extraction valve and a removable gun-metal actuation unit, and is particularly economical as the actuation unit can be used at a large number of draw-off points. The removable actuation unit also effectively protects the system from unauthorised water extraction and manipulation, and can be cleaned easily – for example,

in an autoclave. The valve base body and outlet pipe can be rotated 360°, and the actuation unit can be mounted in 45° steps. This allows it to be aligned vertically for sampling. The extraction valve can be chemically or thermally disinfected.



Bitzer head office in Sindelfingen, Germany: fitted with Viega potable water piping systems at 70 m up.



Testing and proving the quality of water with the Easytop extraction valve.



Automatic water exchange and stagnation prevention: the Viega flushing station.



Viega solutions for potable water in industrial applications

CLEAN POTABLE WATER: ESSENTIAL IN ALMOST ALL PRODUCTION PROCESSES.

The industrial use of potable water is always subject to particularly strict conditions. For example, only hygienically safe and clean potable water can be used to clean production equipment in the food industry.



Hygiene is essential for all processes linked to production

When employees or production equipment come into contact with potable water, there is always one essential condition: the water must be completely hygienically safe and clean. This is the case in food industry applications, for example. Routine cleaning of production facilities, production equipment and appliances can only be carried out using potable water that is also suitable for human consumption. At the same time, the piping systems themselves also need to be hygienic and easy to clean.

In case of emergency: potable water for first aid equipment

Viega piping systems also meet the necessary requirements for the connection

of first aid equipment, such as emergency body, face and eye showers in the chemical and pharmaceutical industries.

Stainless steel: the first choice of materials

The Viega stainless steel piping system Sanpress Inox was developed precisely for this purpose, and has already proven its worth in a large number of industrial applications. Thomas Richter, plant technician at meat product manufacturer Metten, explains why they installed the Sanpress Inox: "The material is extremely robust, durable over time, very easy to clean, and it looks neat, too."

Sanpress Inox – hygiene in all conditions

Sanpress Inox not only withstands aggressive and abrasive liquids, but it is also DVGW-certified, which makes it an ideal solution for use with easily impacted potable water. Even when disinfection pursuant to the Potable Water Ordinance (TrinkwV) Section 11 is to be carried out. The large, practical selection makes Sanpress Inox a flexible problem-solver. All components are available in a number of different versions, in sizes from 15 to 108 mm. Elbows, crossovers, T-pieces, adapters, sleeves, screw fittings and fitting connections – the extensive Viega product range provides the perfect solution for numerous areas of application.



Water in the food industry – an essential cleaning agent for production equipment and production spaces.



Body shower made with Sanpress Inox in meat product manufacturer Metten's production facilities.

Viega solutions for process water

FOR CLEAN PRODUCTION FLOWS EVERY SECOND OF THE DAY.

A wide variety of water qualities are used in industrial applications, from softened, partially or fully desalinated, or post-treated water to water that has been treated for use in chemical or other processes. Viega piping and press connector systems always provide the ideal solution for the safe transport and reliable distribution of different process waters – regardless of their previous processing.





Indispensable in mechanical engineering: process water with specific properties.

Process water is the raw material for a wide range of applications

Process water is used in extremely varied applications. It is used as cooling/recooling water in open and closed circuits, as boiler feed water, solvent, a reaction medium, cleaning and cooling lubricant, or as cooling water for mechanical surface treatment. Process water is also used as a production medium, for example in paper production or in chemical analysis. All of these applications share one thing in common – the water has to meet high quality standards and deliver specific properties.

Specific water properties are essential for clean processes

Wherever and however process water is used, it must be free of any substances that may cause damage to systems and products. Therefore, suitable treatment methods are selected to achieve the required process water quality depending on the untreated water that is available. Treating this water involves processes

that remove certain components from the water (e.g. purification, sterilisation, softening, desalination) and subsequent adjustment of parameters such as the pH level, electrical conductivity and corrosion properties.

The right material is essential for workpieces and process water

This means that, while completely reliable and hygienic supply lines are essential, so too are the right materials across the entire pipeline network. Whether water is used to assist machines in their work or process waters are used as a basis for coolants and lubricants, these waters must always be free of undesirable components or impurities.

Viega piping systems have proven themselves in this area thanks to exemplary hygiene and a great diversity of systems. Of course, this also applies when they are used in heating and cooling processes. You can find out more about that on the next page.



Viega Sanpress Inox
For fully demineralised and distilled water, water as a production resource, and pure water



Viega Profipress, Sanpress and Sanpress Inox
For untreated and cooling water in open and closed systems

Viega system solutions for heating and cooling water

TEMPERATURES AND AGGREGATE STATES MAY CHANGE. SYSTEM PROPERTIES SHOULD NOT.

The uses of water to transmit energy in processes are just as varied as the many types of industrial production. Whether liquid for cooling or low-pressure steam for heating processes, all aggregate states have one thing in common – and that is the fact that this is precisely where the quality of the entire piping system matters, so that neither deposits nor corrosion or strong temperature fluctuations jeopardise the success of production processes.



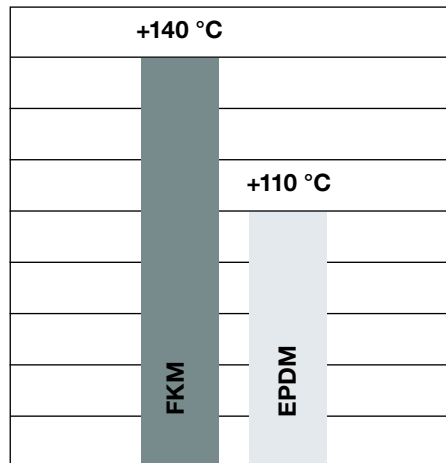
Versatile uses: heating, cooling and industrial systems

When installing cooling and heating systems, there are a number of things to take into consideration, regardless of whether this is a new installation or extensive renovation work. Viega piping systems can be used in heating, cooling and industrial systems.

Substantial planning: cooling lines in industrial applications

When it comes to cooling processes, large dimensions are required in industrial applications in order to be able to transport the required cooling capacity. The Viega XL pipe dimensions satisfy these requirements while making it possible to completely dispense with welding processes, even for large cooling systems. In addition to stainless steel, conventional thick-walled steel pipes are often used. Corrosion protection is particularly important with steel pipes. The high temperature gradient between the medium conveyed and the surrounding air in the room quickly results in water condensing, which increases the risk of corrosion.

To avoid this, in most cases industrially painted steel pipes with a coating pursuant to AGI Worksheet Q 151 are used in cooling systems. If the installation is joined by welding, this coating first needs to be removed from the pipe and then has to be laboriously re-applied after welding. This is not the case with Viega



Maximum operating temperatures of the various sealing elements

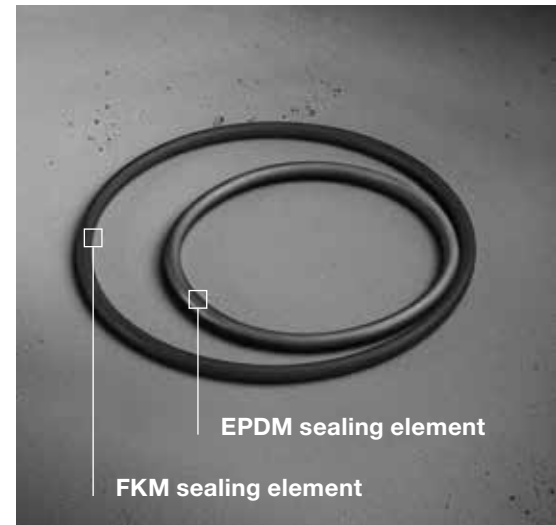
Megapress. These press connectors can be quickly, efficiently and safely pressed directly onto the pipe with its industrial corrosion protection coating.

High demands: pipelines for thermal energy

Temperature resistance is also a crucial factor during operation. Viega press connectors are designed precisely for this purpose and can withstand temperatures of up to +140 °C with the appropriate sealing elements.

Connect to existing local and district heating networks

With the Megapress S system, it is possible to press thick-walled steel pipes in dimensions from 3/8 to 2 inches in local



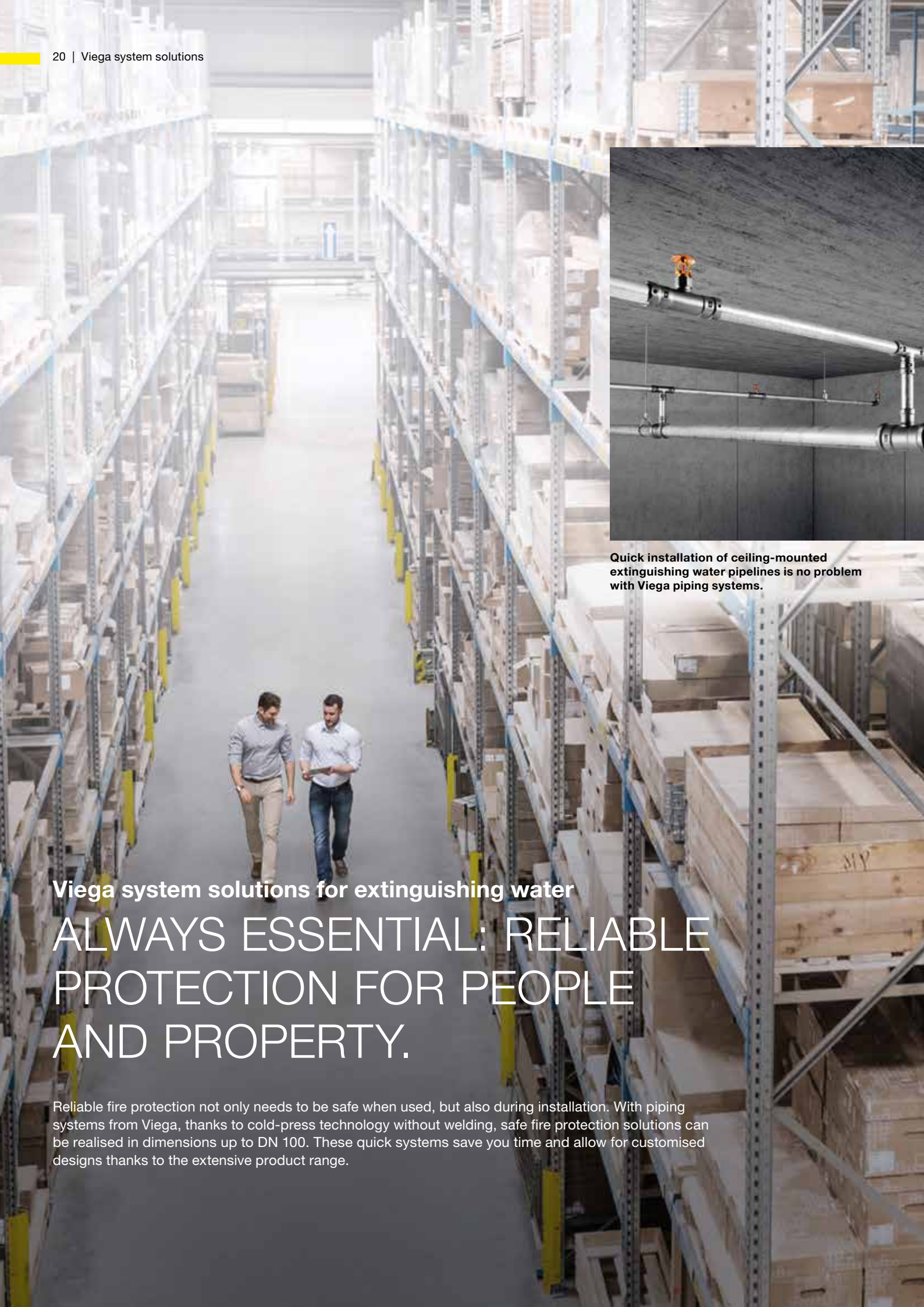
and district heat systems. The press connectors can be used from the point of entry to the building for primary and secondary circuits with indirect connections, as well as for systems with direct connections. The FKM sealing element used is suitable for operating temperatures up to +140 °C. Megapress S satisfies the requirements of AGFW Worksheet FW 524. Numerous tests by independent laboratories as well as a test report from the North Rhine Westphalia Material Testing Department (Materialprüfungsamt NRW) in Dortmund confirm its suitability for district heat systems in accordance with AGFW FW 524.



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MASTERING THE BALANCING ACT BETWEEN HOT AND COLD: VIEGA PRESS CONNECTORS

- Thanks to FKM sealing elements, Viega press connectors can be used in applications with operating temperatures of up to +140 °C.
- With EPDM sealing elements, even applications with temperatures as low as -25 °C can be covered.



Quick installation of ceiling-mounted extinguishing water pipelines is no problem with Viega piping systems.

Viega system solutions for extinguishing water
ALWAYS ESSENTIAL: RELIABLE
PROTECTION FOR PEOPLE
AND PROPERTY.

Reliable fire protection not only needs to be safe when used, but also during installation. With piping systems from Viega, thanks to cold-press technology without welding, safe fire protection solutions can be realised in dimensions up to DN 100. These quick systems save you time and allow for customised designs thanks to the extensive product range.



Whether sprinkler unit steel pipes are black, galvanised, painted or powder-coated, Megapress connectors ensure maximum safety.



Complying with standards: a fire extinguishing system with Viega press connectors.

Viega press connector systems: the first choice for extinguishing water systems

The Viega piping systems combine a robust, safe and durably stable alternative to threaded and roll groove technology, large dimensions for sufficient extinguishing water capacity, and quick installation. This makes them perfect for planning and installing fire extinguishing systems and sprinkler units.

Viega Megapress: for use at the highest hazard classifications

Sprinkler units are classified as stationary, automatically triggered fire extinguishing systems, meaning that they are subject to particular requirements by certification bodies. Relying on Viega systems Megapress and Megapress S allows you to rest assured that all legal requirements are met. In pipe dimensions $\frac{3}{4}$ to 4 inches, Megapress is certified pursuant to VdS CEA 4001 for fire hazard classes LH and OH. The highest fire hazard classes HHP and HHS (production and storage risks) are also covered. This means that the system meets all the requirements for use in an industrial sprinkler unit.

Perfect for upcoming conversion works affecting fire extinguishing systems and wall hydrants

For fire extinguishing systems with a direct connection to the potable water installation, DIN 1988-600 stipulates that potable water and fire extinguishing systems must be separated. Systems that are connected to the potable water supply system without suitable extinguishing water transfer points are a risk to potable water hygiene and will need to be converted. With Viega press systems, conversions can be carried out particularly easily as all the necessary components can be quickly installed.

Fit for any application, including zero clearances

When planning production areas, building fire protection is becoming increasingly important. With Viega, planners can be prepared for this. If, for example, mixed installations with branches to floors or other storeys are to be fitted, this can be done with Viega, even without special permits. Thanks to numerous general building inspectorate test certificates, supply lines can be installed right next to one another, making them particularly space-saving.

Sprinkler units pursuant to VdS guidelines

- Profipress VdS certificate G 4980009 DN 20 to DN 50, in connection with copper pipes according to EN 1057 R290 (hard)
- Sanpress Inox (without \varnothing 64.0 mm) VdS certificate G 4070017 DN 20 to DN 100 in connection with stainless steel pipes 1.4401 and 1.4521
- Hot dip galvanised Prestabo, VdS certificate G 4090017 DN 20 to DN 100, in connection with hot dip galvanised Prestabo pipes
- Megapress VdS certificate G 414021 DN 20 to DN 100 in connection with steel pipes according to EN 10216-1/10217-1/10220/10255

Viega system solutions for compressed air

WITHSTAND ANY PRESSURE. EVEN EXTREME TIME PRESSURE.

Compressed air is irreplaceable on virtually every production line. Whether machines are being moved, products sorted, or packaging processed – a reliable and residue-free supply of clean compressed air is needed to keep production going at all times. Viega press connector and piping systems are safe and developed for maximum freedom from leaks. They really come into their own here – especially in terms of economy.



Ensuring economical use of compressed air: Viega piping systems.



Proven thousands of times in compressed air systems: Viega Easytop system fittings.

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INDIVIDUALLY ADJUSTABLE AND REPLACEABLE: SEALING ELEMENTS FOR COMPRESSED AIR

- EPDM is the sealing element used as standard and is suitable for almost every compressed air application.
- FKM sealing elements can be used for oily compressed air.

Compressed air is essential in industry

Compressed air has many uses in industrial applications. For example, in transport and conveying systems, for driving pneumatic drives, in control and regulation activities or for ejecting workpieces out of production moulds, as well as spraying and blowing off. But compressed air is also absolutely essential for remote-controlled valves and slide valves in process circuits, for cutting and welding devices, case packers and palletisers, and labelling machines.

Not hot air – quality is king here

The reliable supply of compressed air requires the utmost care and attention in every industry. The quality of the piping system is crucial for the trouble-free and effective use of compressed air. Not only does it need to help ensure that no impurities such as dust, oil or moisture impair the required compressed air qualities according to ISO 8573-1, but it also needs to minimise leaks, which can result in considerable economic losses.

Leaks tear profitability to shreds

From faulty compressor control to poor maintenance concepts – there are many different reasons for efficiency losses within compressed air systems. However, the greatest challenge in compressed air supply is always the same, namely pervasive and invisible leaks, which people often try to compensate for by "simply" raising the operating pressure throughout the network. In the long term, this is an extremely expensive and hugely inefficient approach.

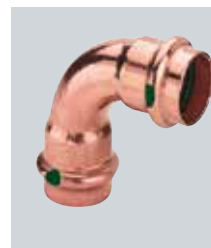
Metal Viega press connector systems are always the first choice

With Viega press connector and piping systems, leaks are prevented from the very outset thanks to press connections that have been tried and tested a million times over, high-quality and durable materials, from gunmetal to copper and stainless steel and, last but not least, thanks to the reliable SC-Contur leakpath. The various Viega press connector systems with different materials and sealing elements are suitable for numerous purity classes in accordance with ISO 8573-1. This enables Viega to provide the highest possible degree of flexibility. More precise specifications can be taken care of at the Viega Service Center.



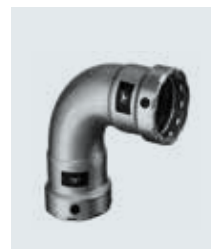
Viega Sanpress Inox

For Viega stainless steel pipes pursuant to EN 10088, EN 10312 and DVGW Worksheet GW 541, in pipe dimensions from 15 to 108 mm



Viega Profipress

For copper pipes pursuant to EN 1057, pipe dimensions from 12 to 108 mm



Viega Megapress

For steel pipes pursuant to EN 10220, EN 10255, EN 10216-1 and EN 10217-1, in pipe dimensions from 3/8 to 4 inches

Viega system solutions for technical gases

SUCCESSFUL PRODUCTION WITH ULTIMATE SAFETY.

Safety and lack of leaks are essential when transporting technical gases. Whether oxygen, nitrogen, carbon dioxide or noble gases such as argon, helium, xenon and neon are present in the piping system, it must be completely reliable at all times. Certified Viega press connector and piping systems meet these demanding requirements.





Viega Profipress/Profipress G: reliable and certified copper press connectors for technical gases.



Viega Sanpress Inox
For Viega stainless steel pipes pursuant to EN 10088, EN 10312 and DVGW Worksheet GW 541, in pipe dimensions from 15 to 108 mm



Viega Profipress
For copper pipes pursuant to EN 1057, pipe dimensions from 12 to 108 mm



Viega Megapress
For steel pipes pursuant to EN 10220, EN 10255, EN 10216-1 and EN 10217-1, in pipe dimensions from 3/8 to 4 inches



Safety is key – including during product sorting in a protective atmosphere.

Twice the challenge for the piping system

Whether it's inert gas welding, using a protective atmosphere for packing food or in the laboratory, industrial applications of all kinds require high-purity gases, with their impurities expressed in ppm. On the one hand, this requires absolute leak tightness, but completely clean installations that do not react with the medium are also needed. Sanpress Inox is the tried-and-tested Viega press connector system for this application.

Highly versatile: Viega Profipress

The Viega Profipress press connector system is also perfect for the transport and distribution of technical gases. With copper pipes pursuant to EN 1057, in dimensions of 12 to 108 mm, Profipress covers a broad range of areas of application and has been tried and tested

countless times. Depending on the application, Viega Profipress is available with three different sealing element options (EPDM, FKM and HNBR).

For thick-walled steel: Viega Megapress

Pipeline networks for technical gases that transport nitrogen, for example, are a good example of steel pipe installations in industrial applications. In these cases, too, the Viega Megapress in pipe dimensions from 3/8 to 4 inches satisfies high requirements, facilitates installation in ceiling areas or in industrial buildings, and enables convenient T-piece installation for extra fast, safe and clean connection to appliances.



Viega system solutions for inflammable media

WHEN IT COMES TO FUELS, SAFETY IS ESSENTIAL. NOT JUST AN OPTION.

Fuels, oil, fuel gases and other inflammable media demand not only the utmost care when it comes to handling, but also maximum safety throughout the entire pipeline network. Metal Viega piping systems ensure exactly that. From extensively tested sealing elements in individual connectors to suitable material quality and reliably sealing press connecting technology, Viega provides every solution for handling inflammable media.





Safety is the top priority when dealing with fuels.



Safe transport for inflammable media – metal Viega press connectors make it possible.

Planning and operational safety for the environment and profit margins

Refinery and petrol station operators expect a leakproof and reliable piping system that is capable of transporting and distributing inflammable media with the utmost safety, so that any environmental pollution is effectively avoided. Metal press connector and piping systems from Viega are certified for use with heating oil and diesel fuels as well as fuel gases and they meet the above requirements. The systems offer both quick installation and high levels of operational safety. Complete leak tightness to natural and liquid gas increases reliability and reduces potential maintenance costs.

Viega Megapress G: safety without welding

With numerous components suitable for industrial use, Megapress G, in pipe dimensions from ½ to 2 inches, covers a broad range of installation options. The system is approved for heating oil and diesel fuels (DIBt-approved) as well as natural and liquid gases according to DVGW Worksheet G 260, and for installations according to DVGW-TRGI 2018 and DVFG TRF 2012. Viega Megapress G has also been tested for HTR (higher thermal

resistance) and approved up to a maximum operating pressure of 0.5 MPa (MOP 5).

This is the case regardless of whether pipes of threaded or boiler pipe quality are used for installation or whether the pipe is seamless, welded, black or galvanized. Pipes meeting EN 10255, EN 10220/10216-1 and EN 10220/10217-1 can be pressed using Megapress G without the need for high-risk welding work.

Also first choice: Viega Sanpress Inox G and Profipress G

The two Viega press connector systems Sanpress Inox G and Profipress G are also ideally suited for use with inflammable media. Like the Sanpress Inox G piping system, in combination with copper pipes pursuant to EN 1057, the Profipress G piping system also has DIBt approval for heating oil and diesel fuels. This means that both systems are ideal for transporting inflammable media.



Sanpress Inox G XL – flexibility for gas installations in industrial applications.

Viega system solutions for LABS-free applications

QUALITY THAT SHOWS OFF OUR TRUE COLOURS.

Wherever paint is applied industrially, whether manually or by machine, even small amounts of contamination with substances that interfere with paint wetting (known as “LABS” in German) can cause paint application errors and result in huge follow-up costs. The highest pipe network quality is therefore essential to minimise risks and maximise production success. And this is exactly what the LABS-free system solutions from Viega offer.





Perfect surfaces demand careful testing

In a production facility with a paint shop, all components – including the building's piping systems, for example – must be LABS-free as a matter of course in order to avoid even the slightest contamination. This is the case for all components and connectors, no matter whether potable water or compressed air is being transported and distributed. For this reason, the production of LABS-free press connectors, components and piping systems at Viega is subject to strict internal testing. For quality assurance purposes, the so-called "crater records" of many well-known car manufacturers who continuously test Viega products are available.

Full portfolio

LABS-free Viega system solutions cover almost every application and provide all the necessary components, from the Viega piping systems to ball valves and slanted seat valves. Quick and safe installation – without welding and soldering work and long downtimes on the production line – is also a part of this solution. Sanpress Inox LF, Sanpress LF and Prestabo LF systems are the first choice when it comes to installing LABS-free piping systems. They are completely free of any substances that impair paint wetting and ensure the highest quality in automobile production and other applications.



LABS-free press connectors are clearly indicated on the packaging.



Essential for ultimate paint quality:
a LABS-free production environment.

LABS-free Viega Easytop system fittings: perfect for every production line

When selecting ball valves and slanted seat valves, the choice of material and simple actuation are important, as it must still be possible to move them easily even after long periods where they are not in use. Our Viega Easytop system fittings are particularly smooth-running, user-friendly and DVGW-approved. The ball valves and slanted seat valves are fitted with Viega system press connectors for seamless integration and installation.

Viega products for individually customised solutions

TURNING INDIVIDUAL REQUIREMENTS INTO RESILIENT SOLUTIONS.

From urea solution to condensates and caustic soda, acetone or ammonia – there are many other tasks for piping systems in industrial applications that require a solution that is as high-quality as it is tailored. With its extensive experience in specialised media, Viega is also the ideal contact for this work. This is also the case for issues and requirements that are even more specific in character: our test and inspection laboratory will always find a reliable solution to every challenge.





Extensive testing during development and trials is compulsory for every system produced by Viega.

There when you need us: the Viega development laboratory

As the global market leader in metal press connector systems, we have decades of experience in product development for special applications. Our partners in industry benefit particularly from the expertise of Viega developers – as soon as we know your specific requirements, we can develop the right individual solution for you. We collaborate closely with our customers to ensure that the solution we develop can guarantee all desired properties in all conditions. This is also ensured by our rigorous testing procedures.

The most intensive testing produces outstanding durability

Both mass-produced Viega products and custom solutions must be able to cope with all the stresses and extremes that come from daily use. This is why we implement long-term and high-load tests to ensure that, in addition to the necessary approvals, all our products demonstrate uncompromising quality. For instance, all our piping systems must be able to withstand extreme minus temperatures in our cold chamber without any detriment to their rated specifications. The mandatory programme for new products and innovations also includes intensive tests under real-world conditions.

Precision-tested product and long-term quality

Our quality controls in production are extremely demanding. Every single connector is subjected to stringent checks before it leaves our factory. This includes visual inspection under the trained eyes of our staff, as well as precise scanning using state-of-the-art camera and laser technology. This ensures that our customers can completely rely on each and every component, whether it has been mass manufactured or custom made.



Machine and manual: individual system testing.



The right material for every application: the result of targeted research.

Viega material recommendations

A GLIMPSE INTO A WORLD OF POSSIBILITIES.

| Area of application | Profipress | Profipress S | Profipress G | Sanpress Inox | Sanpress Inox G | Sanpress Inox LF |
|----------------------------------|------------------------------------|--------------|--------------|-----------------|-----------------|------------------|
| Connector material | Copper/ gunmetal/silicon bronze | | | Stainless steel | | |
| Sealing element | EPDM | FKM | HNBR | EPDM | HNBR | EPDM |
| Technical gases | | | | | | |
| Compressed air | x | x | x | x | x | x |
| Biogas (after treatment) | | | x | | | |
| Oxygen | x | | | x | | |
| Nitrogen | x | x | x | x | x | x |
| Noble gases: Argon, Corgon, etc. | x | x | x | x | x | x |
| Natural gas | | | x | | x | |
| Liquid gases | | | x | | x | |
| Carbon dioxide (dry) | x | | x | x | x | x |
| Vacuum | x | x | x | x | x | x |
| Fluid media | | | | | | |
| Heating oil | | | x | | x | |
| Diesel fuels | | | x | | x | |
| District heat/low-pressure steam | | x | | | | |
| Cooling circuits | x | x | | x | | x |
| Sprinkler units | x | x | | x | | x |
| Fire extinguishing systems | x | x | | x | | x |
| Potable water | x | | | x | | x |
| Special applications | | | | | | |
| LABS-free connectors | | | | | | x |

Please always consult our Service Center before selecting materials.



You can find the precise areas of application as well as operating temperatures and pressures in the technical documentation. The QR code takes you directly to the up-to-date Viega media list with the areas of application for metal installation systems.

Sealing element abbreviations

EPDM

FKM

HNBR

Technical designation

Ethylene propylene diene rubber

Fluorine elastomer

Acrylonitrile butadiene rubber (NBR)

Sanpress

Sanpress LF

Megapress

Megapress S

Megapress G

Prestabo

Prestabo LF

Raxofix

| Gunmetal/silicon bronze | | Steel, zinc-nickel plated | | | Galvanised steel | | Silicon bronze |
|-------------------------|------|---------------------------|-----|------|------------------|------|----------------|
| EPDM | EPDM | EPDM | FKM | HNBR | EPDM | EPDM | – |
| x | x | x | x | x | x | x | x |
| | | | | x | | | |
| | | x | | | | | |
| x | x | x | x | x | | | |
| x | x | | x | x | | | |
| | | | | x | | | |
| | | | | x | | | |
| x | x | | | | | | |
| x | x | x | x | x | | | x |
| | | | | | | | |
| | | | | x | | | |
| | | | | x | | | |
| | | | x | | | | |
| x | x | x | x | | x | x | x |
| x | x | x | x | | x | x | |
| x | x | x | x | | x | x | |
| x | x | | | | | | x |
| | | | | | | | |
| | x | | | | | x | |

Viega press connectors

PRESS SYSTEMS FOR VIRTUALLY ANY CHALLENGE.

Whatever the application, cold press connecting technology offers universal solutions thanks to uniform handling and perfectly matched systems and materials.

The best materials for optimum results

Using Viega piping and press connector systems in industrial environments means using a wide variety of materials that are perfectly suited to their applications. Whether potable water is to be distributed, cooling networks set up, LABS-free (paint-safe) installations produced or fuel gases transported, Viega press connectors made of stainless steel, steel, copper, gunmetal or silicon bronze enable precisely fitting applications and offer unparalleled long-term quality.

Unmistakably safe: connector colour markings

Every Viega press connector has a colour marking that clearly indicates its application. The press connectors are also delivered in bags that have a colour marking. This ensures that the diverse piping systems from Viega can be identified by their areas of application and mix-ups are avoided.

Cold-press technology for thick-walled steel: **Viega Megapress**



| Press connector colour coding | Application | Sealing element |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------|
| Green | Potable water and heating systems, technical gases, compressed air (oil concentration $\leq 25 \text{ mg/m}^3$) | EPDM |
| Yellow | Fuel gases, heating oil and diesel fuels | HNBR |
| White | Temperatures up to $+140^\circ\text{C}$, compressed air (oil concentration $\geq 25 \text{ mg/m}^3$) | FKM |
| Blue | LABS-free connectors | EPDM |
| Black | Technical gases, closed heating and cooling circuits, not potable water | EPDM |
| Red | Closed heating and cooling circuits, not potable water | EPDM |



Stainless steel (also LABS-free) for ultimate potable water hygiene:
Viega Sanpress Inox

Safe transport of fuel gases:
Viega Megapress G

Galvanised steel, including for LABS-free applications:
Viega Prestabo

Reliable connectors for cooling circuits:
Viega Sanpress

For clean and safe gas installations:
Viega Profipress G

Potable water and heat distribution with copper:
Viega Profipress

Also suitable for temperatures up to +140 °C:
Viega Profipress S



Viega industrial applications

FUTURE PLANS ARE MADE BY INNOVATIONS.

It's not just in industrial applications that new thinking, successful planning and choosing the right partners are the key to success – the principle applies across the board. This is precisely what we offer and it is why Viega has been able to prove itself time and again as a name you can trust.

120 years of solutions expertise

Our philosophy of being connected in quality means we are always looking forward. Ten locations worldwide, more than 4,700 employees and numerous patent applications are an expression of our aspirations and our innovative strength. Viega has always asked itself one question above all others: what helps our customers and partners move forward and how can we support them?

Keeping our customers close

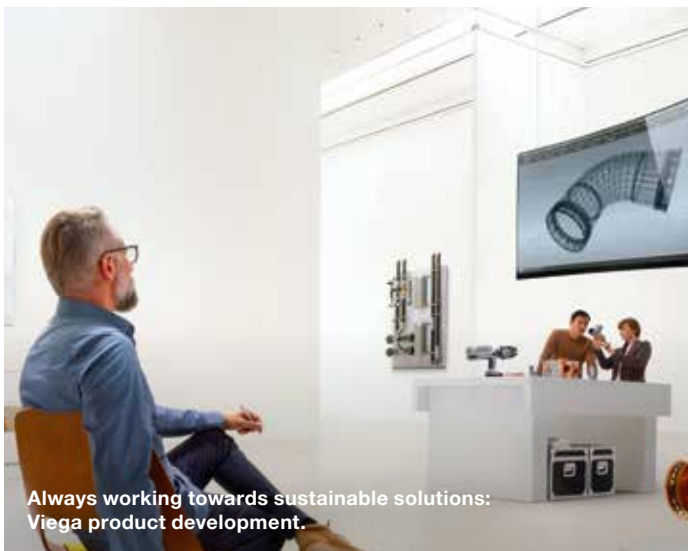
This has resulted in a closeness with our customers that is perhaps only possible in a family business. Whether it is just-in-time delivery of over 17,000 products, sharing knowledge and expertise, or personal support from expert contacts, everything is oriented around the aim of offering our customers and partners the greatest possible advantage.

Viega – global presence and representation

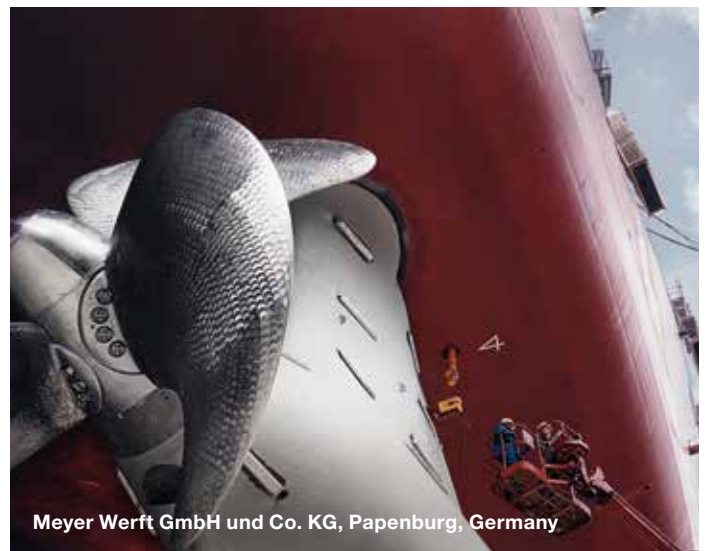
Today, our solutions can be found all over the world and particularly come into their own when the highest quality is required. And that's no accident. We don't merely think from one quarter to the next, but from one generation to the next.



Partnership on an equal footing – from planning to operation.



Always working towards sustainable solutions: Viega product development.



Meyer Werft GmbH und Co. KG, Papenburg, Germany

Viega industrial

SHAPING GLOBAL PARTNER- SHIP TOGETHER.

When it comes to planning and realising industrial production facilities and the associated administrative buildings on an international scale, the ability to talk to someone with expertise is crucial. In these situations, it is not only about the arising requirements and challenges that arise to be understood and resolved – quick access to the right resources to be able to support every project quickly and on a global scale is just as important.

We aim to work together with our national sales branches to support industrial companies operating globally and locally. We provide our expertise and our products, so that they can establish a strong position for future projects.





Focus on industrial customers

True to the mission statement of installing the lifelines for the buildings of tomorrow, Viega's focus is not only on residential but also on industrial buildings. Global industrial companies receive customer care from our international key account management team. They operate close to the range of markets, so they have solutions ready for the diverse challenges faced by these industrial companies.

Globally accessible resources

Our industrial partners are supported by a clear concept. The Viega team of nationally and globally active specialists understand and take into account the variety of challenges faced in industrial projects. They develop and deliver a suitable just-in-time solution for each customer, taking into account the global availability of our solutions and products. The quality, safety and cost-effectiveness of our products always play a superordinate role.

Partnership on an equal footing

The ability to access our global resources at any time is a great advantage for our partners in industry. This is because it also makes it possible to plan global projects and implement them quickly. We do this by always listening to our customers, remaining innovative and never forgetting our goal of nurturing a partnership on an equal footing. The result is a successful, long-term collaboration.



The Squire, Frankfurt am Main, Germany



Audi plant Neckarsulm, Germany

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