



### Viega.

## CONNECTED IN QUALITY.

Viega is convinced: Quality is everything. Without quality, everything means nothing. That is why the company strives to exceed itself each and every day. By means of regular dialogue with its customers, by developing better products and service features and by an approach to the future that does not lose sight of its past.

Viega has been connected in quality for 120 years. It all began with the vision of revolutionising installation technology. With over 4,000 employees and ten locations, we have progressed to become a global market leader in the installation technology sector while still remaining true to our principles and setting our own high standards.

It is of importance to Viega to support its customers in their daily work. To this end, it shares its knowledge with customers all over the world, matches materials, technology and comfort, takes time for quality management and invests in research and development. The result: a perfectly coordinated system providing customers fast and reliable access to over 17,000 products.

Quality is everything. Without quality, everything means nothing.







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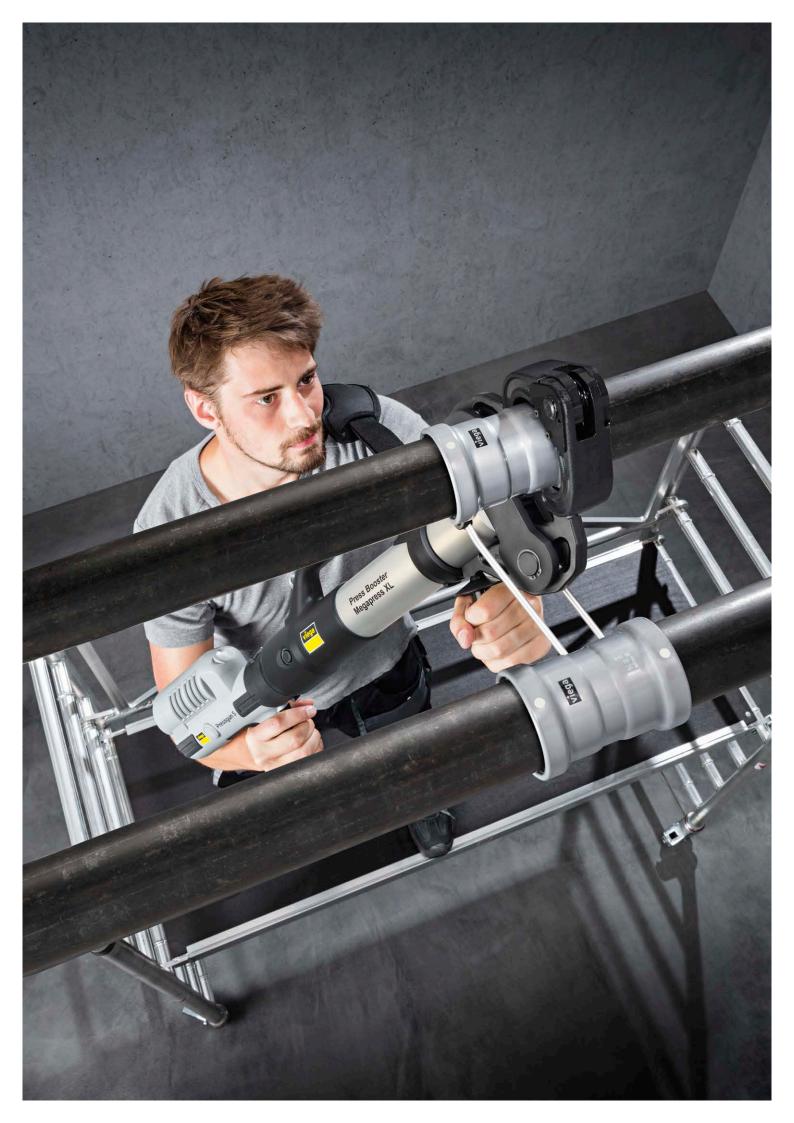
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### **Tested long-time quality**

Only high-quality products can guarantee operational reliability in industrial environments, meaning that downtimes for repairs are minimised. That is why Viega subjects all components to the most stringent quality testing, in order to assure their resilience and durability under practical conditions. Because quality starts right from the development phase.

#### Standardised excellence

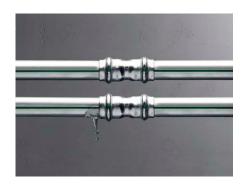
All industries have to comply with set standards. So Viega is committed to ensuring that all the products in its extensive range do more than just meet those standards. Whether in the automotive, shipbuilding or chemical industry: Viega always fulfills all applicable national and international requirements.

#### Patented pressing technology

The foundation stone of the Viega quality promise is its patented pressing technology featuring the universally usable pressing tools Pressgun 5 and Pressgun Picco. They eliminate the need for timeconsuming and risky welding and soldering. Viega's cold pressing technology is safer, faster, more efficient, and produces more durable results than conventional processing methods. Even extreme sizes can be pressed in a matter of seconds, and remain permanently tight and friction-locked against longitudinal forces. With its DVGW-certified SC-Contur, Viega offers a unique safety feature for all pressing systems which also ensures visible test certainty in the industrial manufacturing and engineering sector.

### Safety first

Viega SC-Contur guarantees that inadvertently unpressed connectors come to light. That means that in dry leakage tests the pressure of an unpressed connection can clearly be seen to fall over the entire pressure range from 22 hPa to 0.3 MPa. When testing with water in the pressure range from 0.1 to 0.65 MPa, the water leaks out at unpressed locations.



### The right system for every application

Viega offers users a range of different pressing systems covering any application in an optimal way. All systems are certified by wide-ranging national and international approvals which are continually being updated.























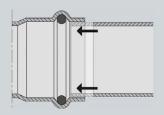
### Twice holds better than once

The press technology enables processing in a matter of seconds. That is because Viega press tools press twice in one pass: once before the bead, and once after it. The cylindrical tube casing of the connector's high-grade sealing element provides optimum protection against damage, so assuring a permanent, torsionally secure connection.



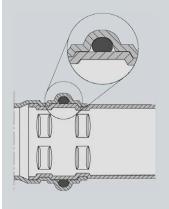
### **Exact fit**

The cylindrical tube casing prevents jamming of the installation pipe and protects the sealing element against damage when the pipe is being inserted.



#### Perfectly connected

In every pressing operation, the pipe and connector are interconnected twice, with force-fitting, both before and after the sealing element.









### Potable water hygiene

It is essential to focus firmly on hygiene when operating potable water installations. Selecting the right materials is equally important. The Viega Sanpress Inox stainless steel system always provides the right solution.

### Sanpress Inox - hygiene under extreme conditions

Sanpress Inox withstands aggressive and abrasive liquids, is DVGW-certified, and is ideal for applications using such a sensitive medium as potable water. Even where the water is disinfected in accordance with Section 11 of the German Potable Water Ordinance.

### Sanpress pipe 1.4521 - the economical alternative

Many operating states in industrial facilities demand careful selection of the system and the sealing elements in order to assure maximum operational reliability and long-time safety in practice. The Sanpress pipe 1.4521 in 15 to 108 mm sizes is a highly practical system. It is

particularly well suited to the conveying of special media, and offers an economical alternative to 1.4401 grade material.

### The Easytop sampling valve - the easy way to test potable water hygiene

One of the strong points of the Easytop extraction valve: It allows you to take water samples under conditions comparable to those used in a laboratory. Thanks to the two-piece system consisting of a stainless steel extraction valve and the universal gunmetal actuation unit, it is particularly economical because the actuation unit can be used at a large number of draw-off points. Since the actuation unit is removable, it can easily be cleaned in an autoclave and furthermore effectively protects the system from water theft and manipulation. The valve body and outlet pipe rotate 360°, and the actuation unit can be installed in 45° increments. That ensures vertical orientation for sample-taking. The sampling valve can be chemically and thermally disinfected.

### The Viega flush valve and flushing station - preventing stoppages

Potable water systems have to be operated in accordance with the applicable regulations. That includes changing the water after a maximum of seven days. To assure optimum hygiene in applications where operation is likely to be interrupted, it is advisable to install appropriate components for regular water changing. The Viega flush valve universal and the Viega flushing station featuring the Viega Hygiene+ flush function can prevent contamination of pipes due to stagnation by regularly exchanging the water.



# SAVING TIME AND MONEY ON A GRAND SCALE.

Whether for cooling or heating systems, every application entails specific demands based on the wide-ranging temperatures encountered. Viega Megapress provides efficient solutions for every case.



### Viega Megapress - eliminating the need for lots of welding

There are lots of things to consider when installing cooling and heating systems regardless of whether it is a completely new installation or an extensive refurbishment. Viega Megapress offers a range of benefits which any trade professional will appreciate: The innovative Viega Megapress system is highly versatile, and is capable of pressing thick-walled steel pipes in heating and cooling systems and industrial facilities in an economical, time-saving way. Megapress S is the extra-large system option, capable of pressing 21/2, 3 and 4 inch sizes with the additional Press Booster. The cold press connection technique eliminates the fire risk and dramatically reduces processing times.

#### Faster and more economical

A Viega Megapress connection is a lot simpler than welding, making it as much as 60 % faster as well as safer, less strenuous and more economical. Time-savings of as much as 80 % can even be attained when processing extra-large sizes. The result is a permanently tight connection which is immediately fully resistant to loading. Cooling times or a fire guard are no longer necessary.

### For universal use

Viega Megapress can be used to reliably press even thick-walled steel pipes. The pipe-moulded connectors made of 1.0308 steel material with a zinc-nickel coating provide the highest quality, robustness and durability. Steel pipes in compliance with DIN EN 10255 in threaded pipe quality and complying with DIN EN 10220/10216-1 and DIN EN 10220/10217-1 in boiler pipe quality, in sizes from % to 4 inches can be connected reliably and easily using the Viega Megapress system.



Easy, safe connections using the Pressgun and Viega Megapress - with no timeconsuming welding.



### VIEGA MEGAPRESS BENEFITS

- Time- and money-saving pressing of thick-walled steel pipes in sizes from % to 4 inches
- No fire risk thanks to cold pressing technique
- As much as 80 % fast processing
- Wide, practically oriented range covering all sizes



#### With tried-and-tested SC-Contur

Viega Megapress also features the SC-Contur of course, though in slightly modified form: Whereas the forced leakage is normally created by a small channel on the sealing element, Megapress achieves it by optimising the tolerance between the press connector and the steel pipe. This is the best answer to the special demands

imposed on a connector made by the different wall thicknesses and surfaces of steel pipes. Megapress becomes a flexible steel pipe connector system by matching the connector diameter to the large number of steel pipe variants. And here, too, the forced leakage from inadvertently unpressed connections is immediately detectable based on the emergence of water.

### Not for potable water

Except for the Megapress silicon bronze adapter fitting for galvanised steel pipework, Viega Megapress is not suitable for installation in potable water pipes. The fact is clearly indicated by a marking on each press connection point. This rules out mixing up or accidental incorrect use of Viega Megapress.



### Viega Prestabo thin rather than thick

The Prestabo press connection system is the alternative for installations that do not require thick-walled steel. With externally galvanised steel, Prestabo combines a tried-and-tested material with the advantages of cold pressing technology. As an externally galvanised variant, the system is suitable for heating and industrial plants. With an additional plastic sheath, it is ideal for wall-mounted installations. As a hot-dip (externally and internally) galvanised variant, it also provides corrosion protection when used in sprinkler and compressed air systems. The Prestabo range features the SC-Contur, is marked with the symbol for "Not potable water", and comprises a wide variety of press connectors and pipes in sizes from 12 to 108 mm.



### The new industrial pipe Inox 1.4520

The lnox stainless steel industrial pipe is made of 1.4520 material. In sizes from 15 mm to 108 mm, it is suitable for heating systems and industrial facilities subject to risk of corrosion. The black line, a black symbol and the black protective plugs on the pipe ends indicate that the pipe is not suitable for potable water. The Inox 1.4520 industrial pipe can be combined with Sanpress or Sanpress Inox press connectors.

### Viega Megapress press-in branch connector - time is money

The Megapress press-in branch connector is a real problem-solver when it comes to adding connections to an existing steel pipe installation. Using the matching complete tool set, holes can be drilled in thick-walled steel pipes in sizes from 11/2 to 6 inches without extensive preparatory work and the new connector can be easily pressed in. Is A standard commercially available drill and a Viega press machine from our range (except Picco) are all that is needed.

### As much as 80 % faster

The press-in branch connector can save up to 80 % on installation time compared to welding-in a new connection. The physical strain for the trade professional is reduced, and after only two minutes the connection between the pipe and the connector is permanently tight thanks to the profile seal ring.

#### A clean affair

Installing a new connection in the steel pipe is not only easy but also clean. A workshop vacuum cleaner can be attached to the drill guide and swarf produced by drilling can be extracted directly.

### Fast and safe before, during, and after installation

The press-in branch connector is fast and efficient not only while installing it but also before and after. The positioning aid makes it much easier to align the press-in branch connector properly on the pipe. This ensures a higher level of safety. Thanks to cold press technology even water flowing out with a delay for example in the piping system is no problem for installing the connection. Waiting times and downtimes of the system are reduced to the minimum.



1. Attach the drilling device on the steel pipe to guide the drilling shaft.



2. Drill the hole with the drilling machine and remove the drilling device.



3. Press the press-in branch connector into the pipe using the press machine insert and the positioning aid.

### Saves costs and space

The press-in branch connector is a costs and space-saving solution for subsequent installation of a new connection. The pipe is spot-drilled only and not entirely disconnected as e.g. when installing a T-piece. This allows using the press-in branch connector even at locations which are difficult to access.



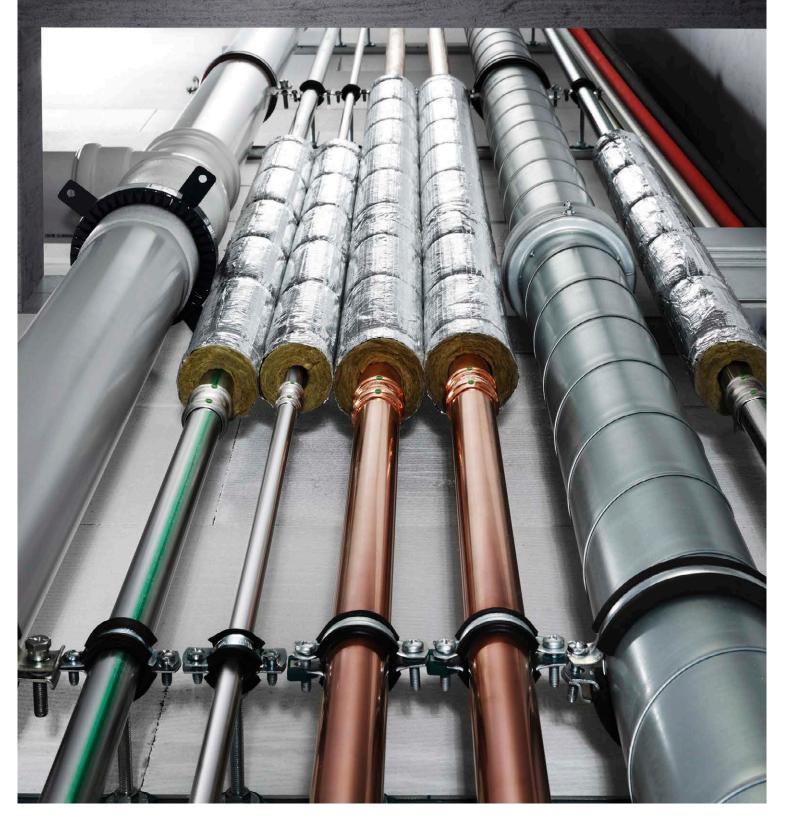
4. The finished steel pipe connection is ideal for installation of thermometers, temperature sensors, manometers, drains or pipe connections.



For the installation procedure go to: viega.de/Video-megapress The Megapress press-in branch connector is not suitable for gas installations.

# Fire protection, fire extinguisher and sprinkler systems BECAUSE IT SAVES LIVES.

There are as many as 70,000 fires every year in Germany, destroying economic assets to a value of several billion euros. According to insurers, one in three fires in industrial facilities results in a loss of over 500,000 euros, as well as entailing far-reaching consequences for the business. Preventive fire protection by means of fire extinguisher and sprinkler systems can save lives and avoid economic loss.





### Ready for anything – including zero clearance

Fire protection systems for buildings are becoming increasingly complex, and ever more important. The latest updates from the Berlin-based German Institute of Construction Engineering (DIBt) on matters such as mixed installations and clearance rules must be observed. Viega will make your active and passive fire protection work easier, and more universally applicable – such as in relation to zero clearance. You can trust in Viega's extensive general construction technique test certifications and testing procedures, as well as in its wide range of fire protection system solutions.

### Sprinkler systems

Sprinkler systems are fixed, automatically triggered fire extinguishing systems which are able to slow down the expansion of fires, or prevent them in the first place, thanks to the targeted deployment of extinguishing water when a fire occurs. Sprinkler systems are subject to the supervision of specialist certification bodies. Viega press systems are approved for LH and OH fire hazard classes entail low and medium fire risk. The Megapress system is an exception: In buildings subject to high risk, such as industrial and commercial facilities, sprinkler systems made of thick-walled steel pipe are essential - and stipulated by law owing to their robustness, stability and

durability. After all, they must not only resist the intense heat in the event of a fire but also withstand the stringent external operational demands in everyday use. Viega Megapress with the sizes from ¾ to 4 inches is ideal for construction and extension of such sprinkler systems. The system complies with the specifications of the highest risk classes and has VdS certification. Until now it was permitted to use only grooved coupling systems or welded systems in the highest fire hazard classes (production risks [HHP] and storage risks [HHS]). With Megapress, press technology can be used without any concerns in such environments.



### **VIEGA FIRE PROTECTION SOLUTION - SIMPLE AND UNIVERSAL**

### **SIMPLE**

- Viega system solutions do not require highly compacted special fire protection covers; the necessary insulating shell provides insulation and fire protection in one
- No costly and complex additional bonding required
- The cross-seams of the mineral wool covers can be arranged in any numbers and locations; the system is always assured for acceptance
- Wide range of piping systems and combinations with other isolation systems are available
- The extensive tested fire protection system permits virtually any combination
- Planning and installation are simple, and assured for acceptance

#### UNIVERSAL

- Available for all Viega piping systems: Profipress, Sanpress,
  Sanpress Inox, Prestabo, Megapress, Raxofix, Sanfix Fosta, Raxinox
- Fitting all external pipe diameters from 12 to 108.0 mm
- All insulation thicknesses are fire protection tested according to EnEV and DIN 1988-200; various stone wool insulating materials (pipe insulation coverings and lamella mats) may be used for floor lead-ins
- Zero clearances can be implemented between all Viega piping systems in many combinations

### Fire extinguishing systems

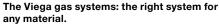
Fire extinguishing systems are fire protection means which serve to protect people and buildings. Regulations state that wall hydrants should be usable to extinguish fires as soon as they start. The Viega Profipress, Sanpress, Sanpress Inox, Megapress and Prestabo hot-dip galvanised systems are suitable for fire extinguishing systems provided the system-specific conditions are fulfilled.



Sanpress Inox is usable for new installations and refurbishments of fire extinguishing systems and wall hydrants.









Safe transport of production media: in cold pressed Viega piping systems.

### **Technical gases**

The generic term "technical gases" refers in general to gases which are used in large amounts for industrial applications. The Technical Rules for Compressed Gases (TRG) categorise gases and gas mixtures according to their properties. The Profipress, Profipress G, Sanpress Inox, Sanpress Inox G, Megapress and Megapress G piping systems can be used to convey many such media.

### Sanpress Inox G at the purest level

Laboratories - but also large-scale technical facilities - increasingly demand

gases of high and super-high purity, with contamination levels in the ppm range. That necessitates absolutely clean installations which do not react with the medium. Sanpress Inox G is the tried and proven Viega press connection system covering this standard.

### The Viega press systems safe and economical

Absolute safety is the most important factor in gas installations. For conveying fuel gases, experts place their trust in Viega's Profipress G, Sanpress Inox G and Megapress G systems. The press connectors are equipped with HNBR sealing elements, and are approved for

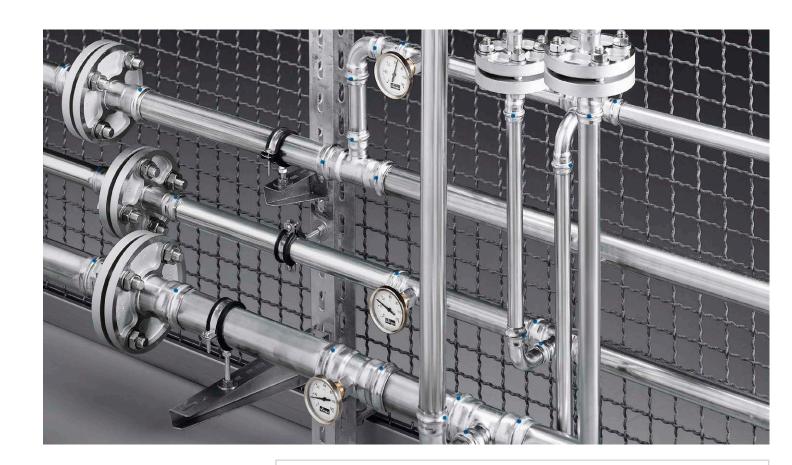
natural and liquid gases in accordance with DVGW Worksheet G 260 as well as for installations conforming to DVGW-TRGI and TRF. The systems are also suitable for heating oil and diesel fuels, and have been awarded the relevant general construction technique approval by the DIBt. Thanks to the Viega SC-Contur, the DVGW-certified press systems are visibly leaky in the central leakage test. The systems meet the requirements of higher thermal resistance (HTR), and Sanpress Inox G and Megapress G are even approved for HTR requirements up to an operating pressure of 5 bar.

	Profipress / Sanpress Inox	Profipress G/ Sanpress Inox G	Megapress	Megapress G		
	EPDM	HNBR	EPDM	HNBR	Operating pressure p <sub>max</sub> [MPa]	
Compressed air	✓	✓	✓	<b>✓</b>	1.6	
Carbon dioxide dry	<b>✓</b>	✓	-	-	1.6	
Nitrogen	✓	✓	✓	✓	1.6	
Argon	✓	✓	-	✓	1.0	
Corgon inert gas	<b>✓</b>	✓	-	✓	1.6	
Vakuum	✓	✓	✓	✓	-0.08	
Oxygen	✓	_	✓	_	1.0	
Natural gas and liquid gas	-	1	-	<b>✓</b>	0.5	

### Labs-free press connector systems

## LABS-FREE PRESS SYSTEMS ENSURE EVERYTHING RUNS SMOOTHLY.

The German-based abbreviation "Labs" refers to substances which impair wetting in paint shop processes. For example, silicones can impair the even application of paint and cause pitting. For that reason, pipelines in paint shops must be kept especially clean. Viega's production of Labs-free press connectors is subject to high demands and continual internal inspection.



### A special case: the automotive industry

Even small amounts of such paint-wetting impairment substances can have a negative effect on paint shop processes in the automotive industry. Viega's Labs-free products provide a solution which actively prevents damage. They are also subject to the external controls and protocols of the automobile manufacturers, and meet all requirements.

The Sanpress Inox LF, Sanpress LF and Prestabo LF systems are the first choice for the installation of Labs-free piping systems.



### Easytop fittings - also Labs-free

When selecting ball valves and slanted seat valves, it is all about the choice of material and ease of actuation. Our Viega Easytop fittings move very smoothly, are user-friendly, and are also DVGW-approved. Some slanted seat valves and ball valves are also available as Labs-free components, and are equipped with Viega press connections. They are identifiable by the blue dot marking.

### **Special applications**

## FOR HIGH TEMPERATURES IN ENERGY AND DISTRICT SYSTEMS.

Fast, safe and reliable, Viega press systems with the FKM sealing element connect perfectly to a wide variety of different energy and heat sources. They are ideal especially for installations using renewable energy and involving high temperatures.



### FKM sealing elements for high temperatures

Viega systems with the FKM sealing element fully meet the needs of a wide variety of special applications involving high temperatures up to +140 °C. The Profipress S system in 12-35 mm sizes is factory-fitted with FKM sealing elements. To avoid confusion, Profipress S connectors are supplied in an orangecoloured bag. The white rectangle on the connector identifies the FKM sealing element inside it; the white dot for the SC-Contur marks it as designed for use in special applications. For larger sizes, the FKM sealing elements can be ordered separately and quite simply exchanged. And that is also true of the Sanpress Inox and Prestabo systems too.

### Megapress S - ideal for local and district heat installations

With the new Megapress S system, thickwalled steel pipes in sizes from % to 2 inches can now also be pressed in local and district heat installations. The press connectors can be used from the point of entry to the building for primary and secondary circuits with indirect connection as well as for systems with direct connection. The FKM circular sealing element is suitable for operating temperatures up to +140 °C. Megapress S meets the requirements of technical guideline AGFW FW 524. Numerous tests by independent laboratories as well as a test report by the North Rhine-Westphalia Materials Testing Office (MPA) in Dortmund have confirmed its suitability for district heat installations conforming to AGFW FW 524.

Special components such as the flatsealing plug-in piece and PN 25/40 flanges rounds off the highly practical Megapress S range.

### Viega Pressguns

# TOP PERFORMANCE IN COMPACT FORM.

Smart system technology: The compact design, light weight and ergonomic shape of the Viega Pressgun system make it a highly user-friendly tool for any pressing scenario – even in tight spaces.



### The Viega Pressguns – easy pressing of any sizes

Viega press tools are a byword for quality, including under the toughest working conditions. Featuring TÜV-tested safety, they are among the most reliable systems, and greatly benefit installations in a wide variety of different application areas. Longer service intervals further ensure highly economical usage.

### Pressgun 5 - the all-rounder

Light weight, compact dimensions and uncompromising performance: the Pressgun 5 is a combination of every attribute. It easily presses sizes from 12 to 108 mm, on battery or mains power, and is the smallest and lightest press machine for extra-large size press connections on the market.

### Flexible even in the tightest of spaces

Pipe shafts, pre-wall installations and other hard-to-access areas pose a regular challenge on-site which the Pressgun 5 smartly masters. The press machine's 180° rotating press jaw fixture and the Viega articulated press rings enable you to reach any location quite comfortably.

### The Pressgun Picco – small but great

The improved Viega Pressgun Picco demonstrates that technical greatness can be found even in the smallest dimensions. It easily and safely presses metal connectors from 12 to 35 mm in size as well as plastic connectors from 12 to 40 mm, making it a handy tool for any sanitary, heating or small-scale industrial installation. The new snapaction press jaw additionally permits genuine one-handed operation throughout the pressing process.



### Pressgun Press Booster – full power ahead

The Megapress S extra-large range featuring the innovative Pressgun Press Booster now also enables cold press connection for steel pipes in 2½, 3 and 4 inch sizes. The innovative booster incorporates a hinged adapter jaw, and

its optimally dimensioned press force ensures maximum flexibility and safety. Ergonomic features include its light weight and a practical carrying strap, making the Pressgun Press Booster a very handy tool, even when working in tight spaces.

### Additionally available



Optimum assistance for overhead working: the snap-action press jaw



Pressgun 5 press machine with battery and charger



Press ring set PT2 for metal press connector systems including hinged adapter jaw

# CHECK OUT THE WEALTH OF POSSIBILITIES.

Viega has outstanding expertise in specialist applications for industry. Working closely with trade professionals, we also develop custom solutions to meet individual requirements.

Application area	Profipress	Profipress G	Profipress S	Sanpress Inox	Sanpress Inox G	Sanpress Inox LF	Sanpress	Sanpress LF
	Copper/ gunmetal/ silicon bronze	Copper/ gunmetal/ silicon bronze	Copper/ gunmetal/ silicon bronze	Stainless steel	Stainless steel	Stainless steel	Gunmetal/ silicon bronze	Gunmetal/ silicon bronz
Technical gases								
Compressed air	✓	✓	1	✓	✓	✓	✓	<b>✓</b>
Biogas (after treatment)	-	1	-	-	✓	-	-	-
Oxygen (BAM-certified)	-	-	-	<b>✓</b>	-	-	-	-
Nitrogen	✓	1	✓	✓	✓	✓	✓	1
Noble gases Argon, Corgon, etc.	<b>/</b>	1	<b>/</b>	/	1	✓	<b>√</b>	✓
Acetylene	-	-	-	✓	-	-	-	-
Natural gas	-	✓	-	-	✓	-	-	-
Liquid gas	-	✓	-	-	✓	-	-	-
Carbon dioxide (dry)	1	1	-	1	<b>✓</b>	1	1	1
Vacuum	✓	✓	✓	✓	✓	✓	✓	1
Liquid media								
Fuel oil	-	✓	-	-	✓	-	-	-
Diesel fuels	-	✓	-	-	✓	-	-	-
Cooling circuits	✓	-	✓	✓	-	✓	✓	1
Sprinkler systems	✓	-	✓	✓	-	✓	✓	1
Fire extinguishing systems	<b>✓</b>	-	<b>/</b>	<b>✓</b>	-	✓	✓	1
Potable water	✓	-	-	✓	-	✓	✓	
Special applications								
Labs-free connectors	-	-	-	-	-	✓	-	1
Shipbuilding	<b>√</b>	✓	1	✓	✓	1	1	1



Always there for you - Viega Service Viega prides itself not only on the high quality of its products, but also on its comprehensive service backup. That is why each project is supervised by Viega application specialists on-site. Clear material recommendations, extensive laboratory tests, training and expert technical advice round off the offer. The Viega Service Center will be glad to assist any customers with tailored recommendations in order to ensure that the optimum systems, components and seal materials are used in an installation. So you see that for Viega "Service" is more than just a word.

### Viega Key Account Management

For industrial and major customers in specialist segments such as automotive, chemicals, pharmaceuticals, food, prefabricated construction and marine applications, Viega offers a service based on Key Account Managers who have detailed knowledge of the specific market requirements. Feel free to contact the factory for details.



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