

Geopress K

Press connection technology
that is robust and reliable.





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 over 115 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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Geopress K underground supply lines

SOMETHING YOU CAN COUNT ON.

Systems that provide underground drinking water and gas supply have to be extremely robust, durable and reliable – just like Viega Geopress K. The press connector system made of high-strength polymer was specifically developed to be used underground. The system combines the advantages of Viega's cost and time efficient press connecting technology with the quality and safety of the Smart Connect Feature.

Important factors

When pipelines are placed underground many factors have to be considered. First of all a suitable material has to be selected that can withstand the high strains it is exposed to in the ground and that can handle the medium to supply. It is therefore of utmost importance that the material is corrosion-resistant and durable. Cost-effectiveness plays another important role, especially for practical use. But it is not only the price of a connector that makes the difference but also a short time for installation and a high flexibility. If the works can be carried out without having to consider the weather conditions and if the connector covers various areas of application as gas and drinking water, the entire work will become more effective.

The solution – by Viega

There are many factors that are relevant for underground supply lines. Viega Geopress K satisfies all these challenges. Thanks to the press connecting technology, the polymer press connectors are robust, reliable and very economic.

The system – versatile

Geopress K is available in sizes from d25 to d63 for water and d32 to d63 for gas (Fig. 1). In combination with the various types of PE pipes, the system can be used for installations of drinking water, gas and alternative energy supply.

Geopress K in diameters d25 to d63



The Geopress K product range provides an integrated installation solution for all underground supply lines with one system only.

In practice – ready to deliver

The wide range of Geopress K products makes it possible that large installations can be made for one system (Fig. 2). Various special solutions are available to complement the large number of connectors. Special adapters ensure a trouble-free connection with other piping systems by providing internal or external threads or screw fittings. The repair coupling (Fig. 3) facilitates a quick and simple way of repairing damaged pipes. In order to do so, a short piece will be cut out of the pipe and the coupling is then slid on one end and pulled back afterwards. The gap is closed and can be pressed, whereas the operational safety is re-stored. This and many other solutions make Geopress K the ideal system to face the practical challenges of underground installations.



Damaged pipes can be quickly fixed using the repair coupling.



Viega Geopress K

ELASTOMER-FREE, INTERNAL SEALING, POLYMER – HIGH SAFETY, BEST SUPPLY.

The Viega Geopress K system was developed to meet the specific demands of drinking water and gas supply pipes laid underground. It combines the advantages of an economic press connecting technology with the safety of robust and high-tensile polymer connectors. These and many other advantages satisfy all economic and assembly requirements.

Internal sealing

With Geopress K, Viega presents a press connector system that is free of elastomers and provides an internal sealing system that is perfectly suited for underground supply line (Fig. 1). These features make our connectors the perfect choice for the rough conditions in the ground. The pipe will just be pressed onto the support sleeve of the connector, thus guaranteeing a firm internal sealing and a high-tensile connection. Any leakage caused by deep grooves or scratches on the pipes surface is prevented. Also the risk of damaged sealing elements due to pollution is eliminated, thus guaranteeing a reliable and tight connection even in challenging circumstances and at any time.

Robust exterior

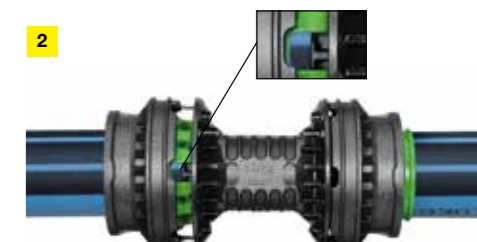
The fibre-glass reinforced polymer ensures a high durability of the Geopress K connector. This material withstands even the highest strains for both above and underground usage.

Safety on first sight

The Geopress K connector is equipped with a window to control the insertion depth and a specific marker showing whether a connector was pressed correctly or not. After pressing, the window is closed and the green clamping ring on the outside of the pipe becomes clearly visible (Fig. 2). This shows a complete pressing.



With the internal sealing contour of the Geopress K connector any other sealing element becomes obsolete.



The connector's windows allow for a control of the pipe's insertion depth before pressing.



PLUS FACTORS OF VIEGA GEOPRESS K

- The internal sealing connectors circumvent the problem of deep scratches and grooves on the outside of pipes.
- The green pressing marker is easy to identify and provides highest safety with only one view.
- Each connector has a window for checking the insertion depth.
- The Geopress K connectors are made out of high performance polymer.
- Viega's press connecting technology enables quick installation independent of weather conditions.
- The connectors are free of sealing elements and can be used for both gas and water.
- No hot works, generators or pipe preparation required.
- Quick and easy installation in seconds.
- Component traceability.
- System is pressure loss optimised.

Enjoyable quality

Each Geopress K connector is equipped with a traceability code pursuant to ISO 12176-4 (Fig. 3). With this code, each element can be traced and details about manufacturer, nominal width, material, batch etc. are provided.

Always fitting

Geopress K can be universally* used and offers the highest possible safety in connection with all types of SDR class 11 PE pipes. PE-80, PE-100, PE-RC and PE-X pipes SDR class 11 can be easily connected with Viega Geopress K.

*Please Note: 25mm not suitable for gas applications, water only.

Press technology

SIMPLE AND SAFER.

As with all other Viega systems, the proven press connecting technology is used for Geopress K. In combination with the newly developed polymer connectors, this guarantees not only a high-strength connection but also a safe and economic implementation.

Well-proven technology

One significant factor for the cost-effectiveness of Geopress K is the proven press connecting technology. The pipe will be cut at right angles and inserted into the connector until it can be seen in the window of the connector. Afterwards, the connector is pressed with the press tool. The green clamping ring can be clearly seen after the pressing procedure. Now the connection is tight, high-tensile and ready for stress – and only takes a few seconds. This means the time for installation can be dramatically reduced compared to other methods.

Proven quality

Next to its simple, quick and economic assembly, Viega Geopress K offers one important thing: safety. The system was certified by DVGW and admitted to be used for water and gas supply lines. With PE pipe classes PE-80, PE-100 and PE-X, Geopress K is admitted in accordance with the technical test guidelines GW 335-B3 (P) and G 5600-2 (P).



1. Cut pipe to length.



2. Place connector onto pipe. Check the insertion depth in the window and draw a safety mark on the pipe.



3. Press the connector and check the green pressing marker.

Tensile stress resistant

The certification of the Geopress K connector confirms that the connection will remain tight and firm even under extreme tensile stress. The clamping ring connects pipe and connector permanently – even digger shovels cannot destroy it.

Smart Connect Feature safety

Geopress K is also equipped with the proven Viega Smart Connect Feature which guarantees that unpressed connections will be leaking. This means that any unpressed pipe will fail immediately during the leakage test (Fig. 1).

Optimal conditions

Thanks to its optimised internal geometry, the Geopress K connectors, elbows and T-pieces provide best fluid dynamics.

Visibly pressed

The green clamping ring of the Geopress K connector fulfils two functions at once. On the one hand, it ensures a connection that is tensile resistant and, on the other hand, it serves as an unmistakable marker that the connection is correctly pressed. This is because the green clamping ring will only become visible on the outside of the pipe if the connection was pressed completely and safely (Fig. 2).



1



2

Viega Geopress tapping valves

A SAFE SERVICE CONNECTION, RIGHT FROM THE START.

The tapping valve
Market leading technology can be identified easily if it makes your work easier – just like the tapping valves of Viega. With 43 various outlets for three systems, they provide the highest flexibility for the job and are the ideal connection to Geopress K, Geopress or Maxiplex. The fittings are also made from high-strength polymer and are available for drinking water (9690TW) and gas (9690G). The material ensures enormous stability and superior durability – features that are of utmost importance for underground installations.

Sophisticated mechanics
With the tapping valve, the spot drilling of the main supply line takes only a few minutes. It is placed around the pipe like a bracket and tightly connected with the pipe using the press tool. Due to the integrated miller for PE pipes, the drilling can be carried out directly without having to use an external drilling machine. To ensure the anti-twist protection of the tapping valve, a sleeve will be inserted into the drill hole.

Telescopic stem extension
The product portfolio is extended by the telescopic stem extension. It is equipped with a tapping saddle that is designed to exactly fit the tapping valve in order to prevent the entrance of dirt and to ensure the correct alignment of the stem extension. Additional blue-yellow marking discs show the corresponding area of application. The telescopic stem extension is available in four lengths.



Geopress tapping valve 9690TW



Telescopic stem extension 9696

Gas flow monitor
To actively secure gas supply lines, Viega provides two different types of gas flow monitors: integrated into a Geopress K coupling (Fig. 2) and as a socket for the connecting piece of the tapping valve (Fig. 1). The gas flow monitor is made of metal. The functional principle of the gas flow monitor is very simple and yet effective: If, for example, the flow volume changes due to a break of the pipeline causing the pressure to fall behind the gas flow monitor, it will shut down automatically and close the pipeline. Gas cannot escape and the



Gas flow monitor 9753.1 – Type A/D, 9755.1 – Type C, 9752.1 – Type R

risks related to this are eliminated. Once the damage of the pipeline is fixed, an overflow opening enables the pressure in the subsequent pipeline section to normalise and the gas flow monitor will reopen automatically and unblock the relevant pipeline section. This process can be accelerated by manually applying counter pressure.

Please note: German technology unavaible in Australia as of June 2019.



Gas flow monitor as socket 9753.2 – Type A/D, 9755.2 – Type C, 9752.2 – Type R

	type A/D	type C	type R
Operational excess pressure	25 mbar to 1 bar	25 mbar to 5 bar	35 mbar to 5 bar
Overflow volume flow	30 l/h at 100 mbar	30 l/h at 1 bar	30 l/h at 1 bar
Model number	9753.1/9753.2	9755.1/9755.2	9752.1/9752.2

Geopress K gas flow monitor



Applying the tapping valve.



Pressing fittings with manual tool or pressgun.



Insert and secure Geopress K connecting piece.



Recording witness marks.



Positioning coupling.



Using Press Gun to close the connection.

Viega Pressgun

TAKES SECONDS TO CONNECT WHAT BELONGS PERMANENTLY JOINED.

Viega press tools are known for their quality. They are especially impressive under the hardest working conditions. Among the most successful in Europe, their safety technology has been approved by TÜV, the German Certification Body. Longer service intervals further ensure highly economical usage.



With the powerful press tools of Viega, underground connections are pressed within seconds.



Battery-powered press machine
Pressgun 5 (model 2295.2)



Press ring for Geopress K
connector (model 9796.1)



Geopress K hand press tool
(model 9695.5)



Hinged adapter jaw Z2 for
d25 to d63 (model 2296.2)



Press ring driver PT2 for
Geopress K (model 9796.2)

Viega Pressgun 5

- High performance press tool, which runs either on batteries or external electrical power.
- For all press connectors in dimensions 25 to 63 mm.
- Only 3.2 kg weight without press jaw.
- Simple one-hand operation.
- Lightweight 18 V/2.0 Ah lithium ion high-performance batteries with deep discharge protection and improved cold-start function; optionally available for higher capacity requirements: 18 V /4.0 Ah battery version.
- Utmost flexibility in each space situation thanks to the press head rotatable by 180° and the press rings with articulation.
- Integrated LED lamp for comfortable illumination of the pressing point.
- Safety standards checked by recognised authority (TÜV): tripping delay, pin retainer, maintenance display and automatic safety lock.
- Service only after 40,000 pressings or 4 years, safety lock after 42,000 pressings.

Viega Geopress K

THE PRODUCT RANGE.

With Geopress K, Viega offers a comprehensive product range for uniform connections of underground supply lines with one single system. All connectors, couplings and adapters are available in dimensions d25 to d63 for water and d32 to d63 for gas.



9716



9714



9714.2



9726



9726.2



9793TW
9793G



9794TW
9794G



9720.1TW



9715.2



9715.5



9711



9715



9712



9718



9717.1



9794.1TW
9794.1G



9756



9690TW
9690G



9796.2



9697



9796.1



2295.2



9796.7



9796.2



2296.2



9696



9796.7

We reserve the right to effect changes.



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