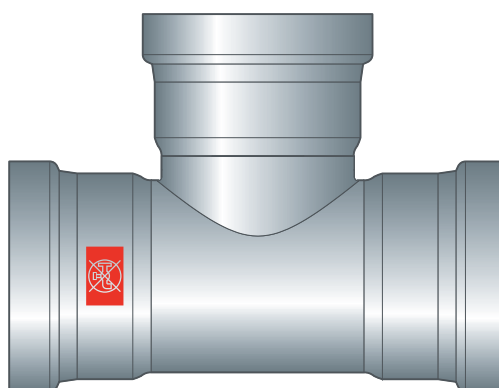
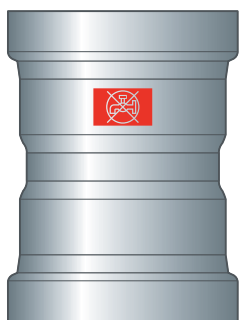


Instructions for Use

Prestabo XL



Press connector system made of non-alloy steel for non-alloy steel pipes

System
Prestabo XL

Year built (from)
04/2007

viega

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1 About these instructions for use

Trade mark rights exist for this document; for further information, go to viega.com/legal.

1.1 Target groups

The information in this manual is directed at heating and sanitary professionals and trained personnel.

Individuals without the abovementioned training or qualification are not permitted to mount, install and, if required, maintain this product. This restriction does not extend to possible operating instructions.

The installation of Viega products must take place in accordance with the general rules of engineering and the Viega instructions for use.

1.2 Labelling of notes

Warning and advisory texts are set aside from the remainder of the text and are labelled with the relevant pictographs.



DANGER!

This symbol warns of possible life-threatening injury.



WARNING!

This symbol warns of possible serious injury.



CAUTION!

This symbol warns of possible injury.



NOTICE!

This symbol warns of possible damage to property.



This symbol gives additional information and hints.

1.3 About this translated version

This instruction for use contains important information about the choice of product or system, assembly and commissioning as well as intended use and, if required, maintenance measures. The information about the products, their properties and application technology are based on the current standards in Europe (e.g. EN) and/or in Germany (e.g. DIN/DVGW).

Some passages in the text may refer to technical codes in Europe/Germany. These should serve as recommendations in the absence of corresponding national regulations. The relevant national laws, standards, regulations, directives and other technical provisions take priority over the German/European directives specified in this manual: The information herein is not binding for other countries and regions; as said above, they should be understood as a recommendation.

2 Product information

2.1 Standards and regulations

The following standards and regulations apply to Germany / Europe and are provided as a support feature.

Regulations from section: Application areas

Scope / Notice	Regulations applicable in Germany
Planning, setup, operation and maintenance of fire extinguishing systems	DIN 14462

Regulations from section: Media

Scope / Notice	Regulations applicable in Germany
Suitability for low-salt / saline potable water	VDI-Richtlinie 2035, Table 1
Suitability for heating water for pump hot water heating systems	VDI-Richtlinie 2035, Sheet 1 and Sheet 2

Regulations from section: Sealing elements

Scope / Notice	Regulations applicable in Germany
Area of application of the EPDM sealing element ■ Heating	DIN EN 12828

Regulations from section: Corrosion

Scope / Notice	Regulations applicable in Germany
Entry of oxygen during re-filling of a system	DIN EN 14868 (2005–11)
Oxygen content in low-salt / saline water	VDI-Richtlinie 2035 Table 1
Complete external corrosion protection for application in cooling circuits	DIN 50929
Complete external corrosion protection for application in cooling circuits	AGI-Arbeitsblatt Q 151

Regulations from section: Storage

Scope / Notice	Regulations applicable in Germany
Requirements for material storage	DIN EN 806-4, Chapter 4.2

Regulations from section: Leakage test

Scope / Notice	Regulations applicable in Germany
Test on a system that is finished but not yet covered	DIN EN 806–4
Leakage test for water installations	ZVSHK-Merkblatt: "Dichtheitsprüfungen von Trinkwasserinstallationen mit Druckluft, Inertgas oder Wasser"
Requirements for filling and top-up water	VDI 2035

2.2 Intended use



Agree the use of the system for areas of application and media other than those described with Viega.

2.2.1 Areas of application

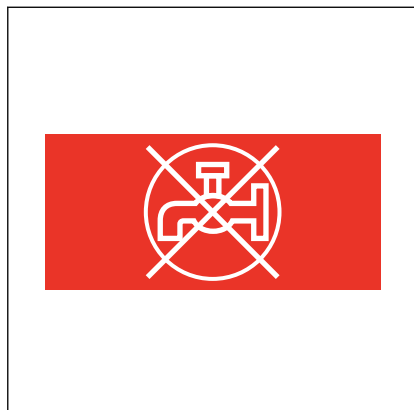


Fig. 1: "Non-potable water"

The system is intended for use in industrial and heating systems. The system is not suitable for use in potable water installations. For this reason, pipes and press connectors are labelled with a red symbol "Not potable water".

Use is possible in the following areas among others:

- Industrial and heating systems
- Wet sprinkler systems (with hot dip galvanised pipe)
- Wet fire extinguishing systems, see [☞ 'Regulations from section: Application areas' on page 5](#)
 - Exclusively with hot dip galvanised tube
- Solar installations with flat collectors
- Solar installations with vacuum collectors (only with FKM sealing element)
- Compressed air systems
- Cooling water pipelines (closed circuit)
- Vacuum systems (on request)
- Systems for technical gases (on request)
- Painting systems (only with lube-free components)



The system is intended for installation in warm and dry atmospheres. The pipes must not be subjected to constant dampness. Non-compliance may result in corrosion of the system, see [☞ Chapter 2.4.1 'Corrosion' on page 16](#).

2.2.2 Media

The system can be employed in closed water circuits, into which no oxygen can enter during operation.

The following limits are valid for the oxygen content, see [☞ 'Regulations from section: Media' on page 5](#):

- Low-salt water ≤ 0.1 mg/l
- Saline water < 0.02 mg/l

The system is also suitable for the following media, amongst others:

For the applicable directives, see ↗ *'Regulations from section: Media' on page 5.*

- Heating water for closed pump hot water heating systems
- Compressed air (dry) in compliance with the specification of the sealing elements being used
 - EPDM at oil concentration < 25 mg/m³
 - FKM at oil concentration ≥ 25 mg/m³
- Anti-freeze, cooling brines up to a concentration of 50 %



NOTICE!

Do not use hot dip galvanised pipes for cooling water with additives (e.g. anti-freeze etc.). Otherwise, the zinc layer in the internal pipe may dissolve and unit components may get clogged.

2.3 Product description

2.3.1 Overview

The piping system consists of press connectors in connection with non-alloy steel pipes and the corresponding press tools.

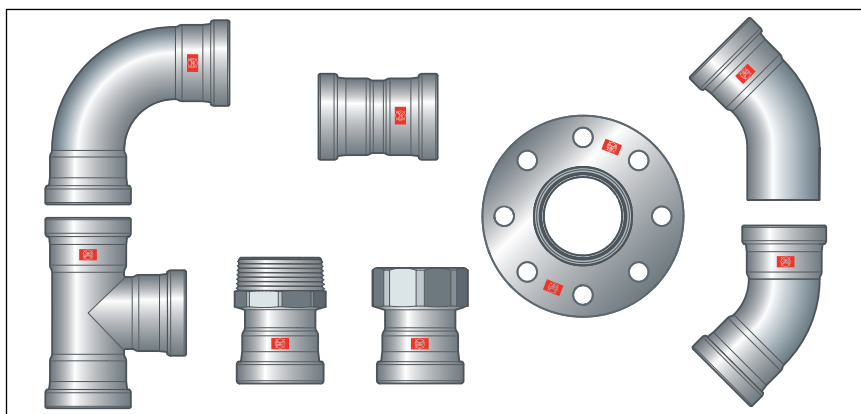


Fig. 2: Prestabo XL product selection

The system components are available in the following dimensions:
d 64.0 / 76.1 / 88.9 / 108.0.

2.3.2 Pipes

Prestabo XL pipes are available in a length of 6 m.

The following pipes are available from the system described:

Type of pipe	Prestabo XL pipe	Prestabo XL pipe for special applications
Area of application	Industrial and heating systems	Sprinkler and compressed air systems
d [mm]	64.0 / 76.1 / 88.9 / 108.0	64.0 / 76.1 / 88.9 / 108.0
Type of galvanisation	externally galvanised	hot dip galvanised inside and outside
Thickness of the zinc plating	8–15 µm	15–27 µm
Protective cap	Red	White



Hot dip galvanised pipes are not suitable for heating and cooling systems.

Pipe key data blank Prestabo XL pipe

d x s [mm]	Volume per metre of pipe [l/m]	Pipe weight [kg/m]
64.0 x 2.0	2.83	3.06
76.1 x 2.0	4.08	3.66
88.9 x 2.0	5.66	4.29
108.0 x 2.0	8.49	5.23

Laying and fixing pipes

Only pipe clamps with chloride-free sound insulating inlays should be used to secure the pipes.

Observe the general rules of fixing technology:

- Do not use fixed pipelines as a support for other pipelines and components.
- Do not use pipe hooks.
- Observe distance to press connectors.
- Observe the expansion direction: Plan fixed and gliding points.

Make sure to affix the pipelines in such a way as to de-couple them from the installation body, so that they cannot transfer any structure-borne sound, resulting from thermal expansion or possible pressure surges, onto the installation body or other components.

Observe the following fixing distances:

Distance between the pipe clamps

d [mm]	Fixing distance between the pipe clamps [m]
64.0	4.00
76.1	4.25
88.9	4.75
108.0	5.00

Length expansion

Pipelines expand with heat. Heat expansion is dependent on the material. Changes in length lead to tension within the installation. These tensions must be compensated for with suitable measures.

The following are effective:

- Fixed and gliding points
- Expansion equalisation joints (expansion bends)
- Compensators

Heat expansion co-efficients of various pipe materials

Material	Heat expansion co-efficient α [mm/mK]	Example: Length expansion with pipe lengths L = 20 m and $\Delta T = 50$ K [mm]
Galvanised steel	0.0120	12.0

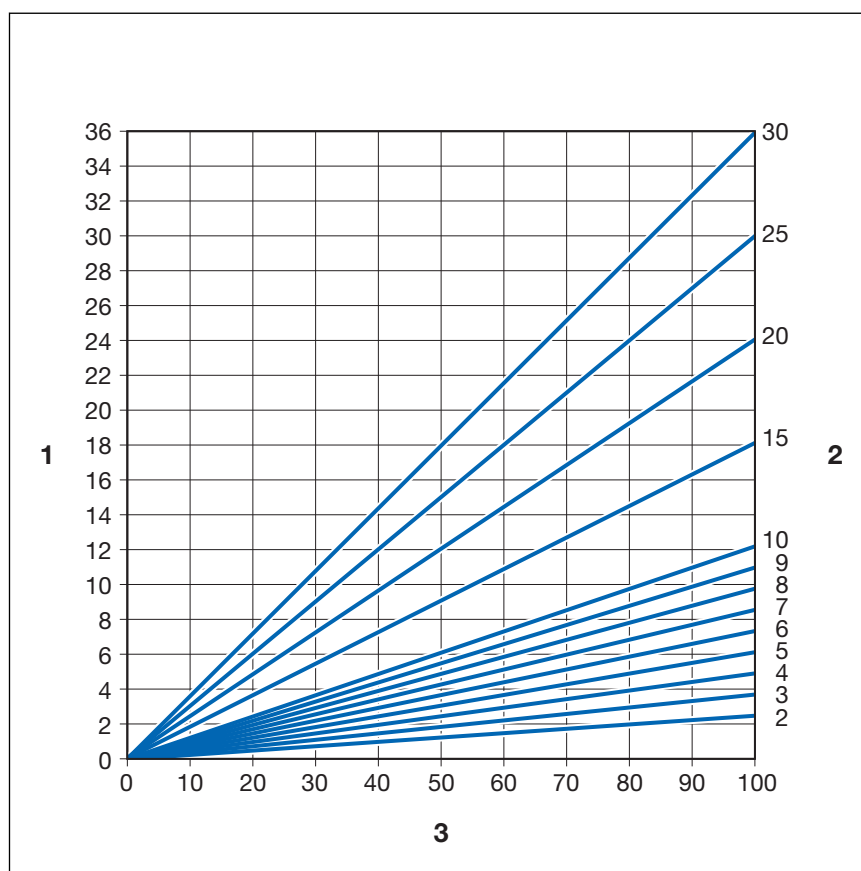


Fig. 3: Length expansion steel pipes

- 1 - Length expansion Δl [mm]
- 2 - Pipe length l_0 [m]
- 3 - Temperature difference $\Delta\theta$ [K]

The length expansion Δl can be taken from the diagram or can be calculated using the following formula:

$$\Delta l = \alpha \text{ [mm/mK]} \times L \text{ [m]} \times \Delta\theta \text{ [K]}$$

2.3.3 Press connectors

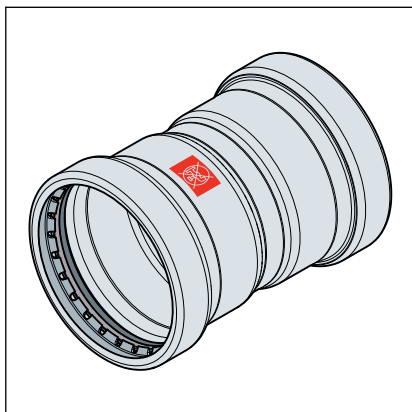


Fig. 4: Press connectors

On Prestabo XL press connectors, there is a cutting ring, a separator ring and a sealing element in the bead of the press connector. The cutting ring cuts into the pipe during pressing and ensures a force-fit connection.

During installation, and later during the pressing, the separator ring protects the sealing element from damage from the cutting ring.

SC-Contur

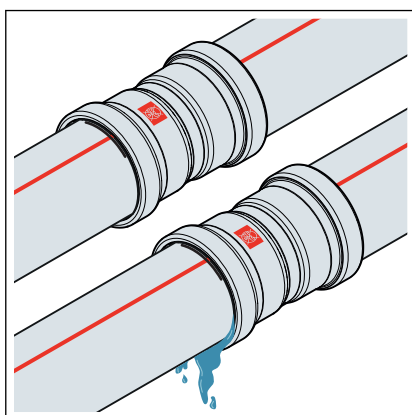


Fig. 5: SC-Contur

Viega press connectors are equipped with the SC-Contur. The SC-Contur is a safety technology that is certified by the DVGW and ensures that the press connector is guaranteed to be leaky in an unpressed state. In this way, inadvertently unpressed connections are noticed during a leakage test.

Viega guarantees that accidentally unpressed connections become visible during a leakage test:

- with the wet leakage test in the pressure range from 0.1–0.65 MPa (1.0–6.5 bar)
- with dry leakage test in the pressure range from 22 hPa–0.3 MPa (22 mbar–3.0 bar)

2.3.4 Sealing elements

The press connectors are factory-fitted with EPDM sealing elements. For areas of use with higher thermal resistance, such as e.g. in the case of district heat supply systems, the press connectors must be equipped with FKM sealing elements.

The sealing elements can be distinguished as follows:

- EPDM sealing elements are polished black.
- FKM sealing elements are matt black.

Area of use of the EPDM sealing element

Area of use	Heating	Solar installations	Air-conditioning systems	Compressed air	Technical gases
Use	Pump hot water heating system	Solar circuit	Secondary circuit closed	all pipeline sections	all pipeline sections
Operating temperature [T _{max.}]	110 °C	1)	≥ -25 °C	60 °C	—
Operating pressure [P _{max.}]	1.6 MPa (16 bar)	0.6 MPa (6 bar)	1.0 MPa (10 bar)	1.6 MPa (16 bar)	—
Comments	T _{max.} 105 °C ²⁾ with radiator connections T _{max.} 95 °C	for flat collectors	Inhibitor for water chiller, see material resistance	dry, oil content < 25 mg / m ³	1)

¹⁾ Consultation with Viega required

²⁾ see  'Regulations from section: Sealing elements' on page 5

Area of use of the FKM sealing element

Area of use	District heat supply	Solar installations	Compressed air
Use	District heat supply systems behind the external wall lead-in	Solar circuit	all pipeline sections
Operating temperature [T _{max.}]	140 °C	1)	60 °C
Operating pressure [P _{max.}]	1.6 MPa (16 bar)	0.6 MPa (6 bar)	1.6 MPa (16 bar)
Comments	Needs to be coordinated with the utility company before installation.	For vacuum pipe collectors	dry, oil content ≥ 25 mg / m ³

¹⁾ Consultation with Viega required.

2.3.5 Markings on components

Pipe marking

Prestabo XL pipe	Prestabo XL pipe for special applications
Red continuous line	Red dotted line
Red writing	Black writing

The pipe markings contain important information regarding the material configuration and manufacture of the pipes. The red line on the pipes serves as a warning: *'Not suitable for potable water!'*.

The meaning of the marking is as follows:

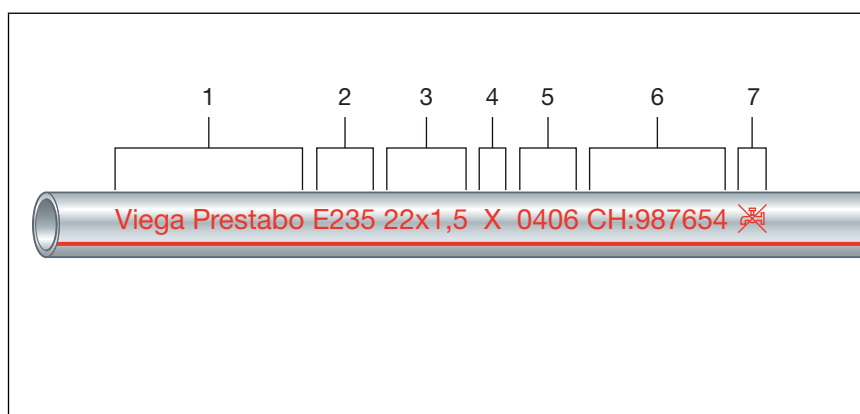


Fig. 6: Galvanised pipe

- 1 - System manufacturer / system name
- 2 - DIN material number
- 3 - d x s
- 4 - Pipe manufacturer's symbols
- 5 - Date of manufacture
- 6 - Batch number
- 7 - Symbol *'Not suitable for potable water!'*

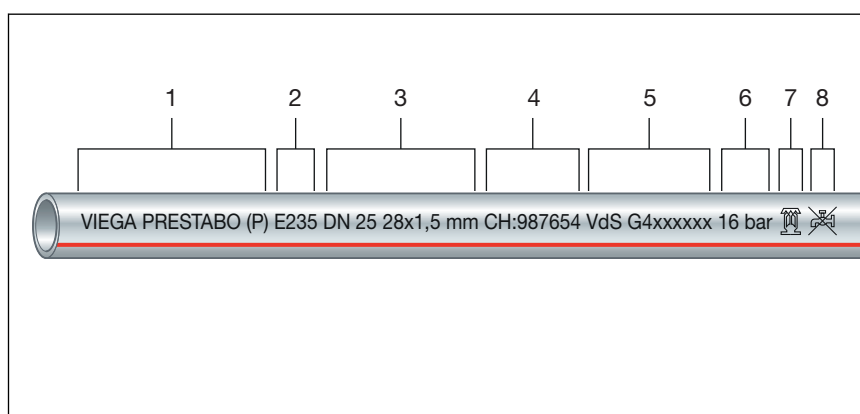
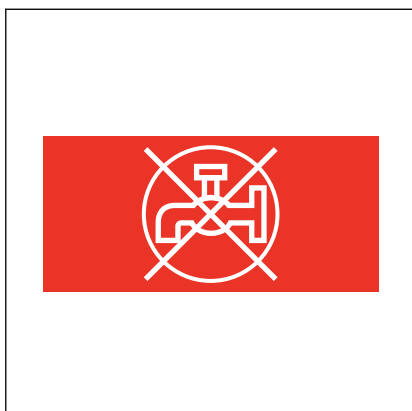


Fig. 7: Pipe internally and externally hot dip galvanized

- 1 - System manufacturer / system name
- 2 - DIN material number
- 3 - DIN nominal pipe diameter and d x s
- 4 - Batch number
- 5 - Test symbol / number
- 6 - Pressure level
- 7 - Suitable for sprinklers
- 8 - Symbol *'Not suitable for potable water!'*

Markings on press connectors



The red rectangle serves as a warning "Not suitable for potable water!".

The rectangle is to be found in the following places:

- on the press end of the press connector
- on the flange of the flange adapter

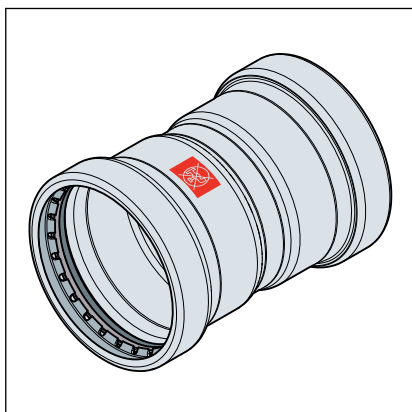


Fig. 8: Marking "Not suitable for potable water"

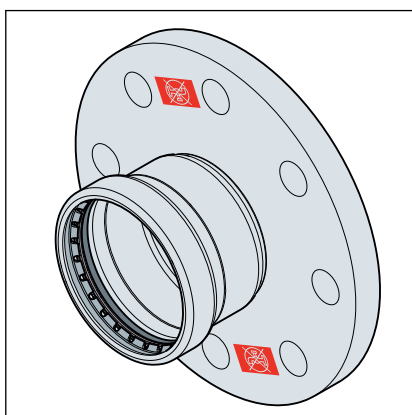


Fig. 9: Marking "Not suitable for potable water"

2.4 Information for use

2.4.1 Corrosion

Internal corrosion (three-phase boundary)

Corrosion can occur in the area of the three-phase boundary – water/ material/air – in metallic materials. This corrosion can be prevented if the system remains completely full of water after its first filling and bleeding. If the installation is not to be commissioned immediately, carry out the pressure and leakage test using air or inert gases, see [Chapter 3.4.5 'Leakage test' on page 27](#).

Prestabo system in cooling water circuits

The Prestabo system, in combination with externally galvanised pipes, can be used with its moulded and connection pieces in all closed cooling water circuits in which no oxygenation is possible during operation.

Due to the operating conditions in cooling water systems, it may be necessary to add anti-freeze to the carrier medium. The standard sealing elements made of EPDM can be used up to a glycol content of 50 % of the total water content. Internally and externally hot dip galvanised Viega pipes are not suitable for use in this case.

The re-filling of a system does not normally lead to significant oxygenation, see ['Regulations from section: Corrosion' on page 6](#). However, the oxygenation can lead to damage (corrosion) in the system, if the circulating water is regularly replaced due to losses and (e. g. automatic topping up) considerable quantities of fresh water were added.

The oxygen content of low salt water should be <0.1 mg/l, in the case of saline water, be <0.02 mg/l, see ['Regulations from section: Corrosion' on page 6](#).

Complete external corrosion protection, which reliably prevents corrosive influences, must be applied when using in cooling circuits. Observe the manufacturer's product information and the pertinent guidelines, see ['Regulations from section: Corrosion' on page 6](#).

External corrosion

Prestabo pipes and the press connectors are protected by a thin galvanic zinc-plating coat. This galvanisation protects against moist surroundings, however not against external corrosion on a permanent basis. The system is intended for installation in warm and dry atmospheres. The components should not normally come into contact with water when properly installed and used as intended.

Constant moisture on the pipe

Constant dampness on the pipe occurs due to the following conditions e.g.:

- due to condensation or precipitation during the construction phase
- Condensation (e. g. when used in cooling circuits)

- through cleaning or splash water as well as wastewater through defect floor seals etc.
- when water reaches the pipeline installation in a non-intended way, e.g. due to a construction defect or water damage in the building.

Protective measures against external corrosion

The following measures should be observed to protect the Prestabo system from external corrosion:

- Lay the pipelines outside of the areas at risk of dampness.
- Avoid contact with corrosive building materials (e. g. filler or levelling screed).
- Use waterproof separating foil in the floor construction to protect the laid pipelines against possible dampness, e. g. screed dampness. The overlapping foil overlaps must be sealed tightly.
- Use closed-cell insulating hoses and seal properly. Take particular care to stick all of the abutting ends and cut edges together. However, the measures are no substitute for potentially necessary and additional corrosion protection.
- In the case of installations, e. g. in industrial areas, which are contaminated with aggressive ambient air, observe the internal factory standards.

Corrosion due to cleaning water

In areas where daily cleaning of the floor is deemed necessary (e. g. in hospitals), corrosion can also be caused by water and cleaning agent coming into contact with visible radiator connection lines that protrude from the floor. The water can seep through leaky joints between pipeline and the floor covering into the insulation. It is unable to escape and this leads to constant dampness around the pipes, which leads to external corrosion.

Disinfectant can also have a corrosive effect on pipelines.

Recommended measures to protect from corrosion due to cleaning water

- Favour radiator connections out of the wall.
- Use plastic coated Prestabo pipes for connections coming out of the floor.
- Seal joints between pipeline and floor covering properly. Silicone joints must be maintained regularly.

Viega recommends to use the PP coated Prestabo pipe (model 1104) for laying the Prestabo system in the floor area or for concealed installation. The press connectors and pipe ends must be treated with a corrosion prevention agent — e.g. Denso Densolen ET 100, to ensure constant protection against corrosion. The relevant processing guidelines must be observed, whilst doing so.

3 Handling



NOTICE!

Risk of corrosion from damaged surfaces

The galvanised surfaces of the components must not be damaged (e. g. with pointed objects). Otherwise there is a risk of corrosion.

3.1 Transport

Observe the following when transporting pipes:

- Do not pull the pipes over the sill. The surface could be damaged.
- Secure pipes during transportation. Pipes may become bent due to shifting.
- Do not damage the protective caps on the pipe ends and do not remove them until immediately before mounting. Damaged pipe ends must not be pressed.

3.2 Storage

For storage, comply with the requirements specified in the applicable regulations, see [§ 'Regulations from section: Storage' on page 6](#):

- Store components in a clean and dry place.
- Provide ventilation.
- Do not store the components directly on the floor.
- Provide at least three points of support for the storage of pipes.
- Do not cover the pipes with foils, prevent the formation of condensation.
- Where possible, store different sizes separately.
Store small sizes on top of larger sizes if separate storage is not possible.
- Store pipes of different materials separately to prevent contact corrosion.

3.3 Assembly information

3.3.1 Mounting instructions

Checking system components

System components may, in some cases, have become damaged through transportation and storage.

- Check all parts.
- Replace damaged components.
- Do not repair damaged components.
- Contaminated components may not be installed.

3.3.2 Potential equalisation



DANGER! **Danger due to electrical current**

An electric shock can lead to burns and serious injury and even death.

Because all metallic piping systems conduct electricity, unintentional contact with a live part can lead to the whole piping system and components connected to it (e. g. radiators) becoming energised.

- Only allow electrical work to be carried out by qualified electricians.
- Always integrate the metal piping system into the potential equalisation.



It is the fitter of the electrical system who is responsible for ensuring that the potential equalisation is tested and secured.

3.3.3 Permitted exchange of sealing elements



Important instruction

With their material-specific qualities, sealing elements in press connectors are adapted for use with the corresponding media and/or the areas of use of the piping systems and are generally only certified for them.

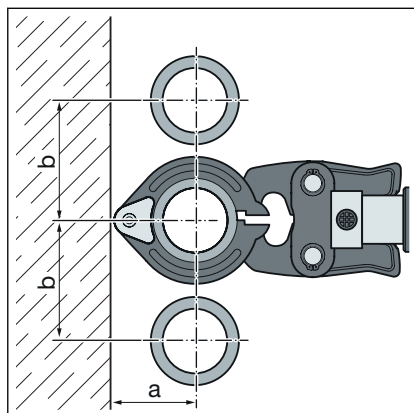
The exchange of a sealing element is generally permitted. The sealing element must be exchanged for a designated spare part for the intended application ↗ *Chapter 2.3.4 'Sealing elements' on page 12*. The use of other sealing elements is not permitted.

Exchanging a sealing element is permitted in the following situations:

- if the sealing element in the press connector is obviously damaged and should be exchanged for a Viega spare sealing element made of the same material
- if an EPDM sealing element should be exchanged for an FKM sealing element (higher thermal resistance, e.g. for industrial use)

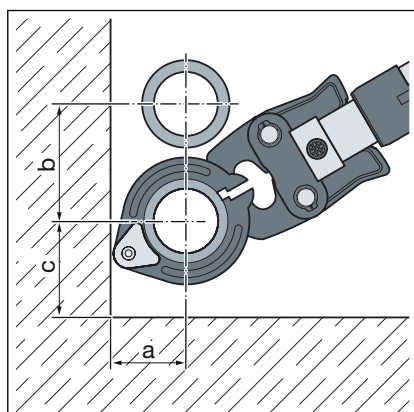
3.3.4 Space requirements and intervals

Pressing between pipelines



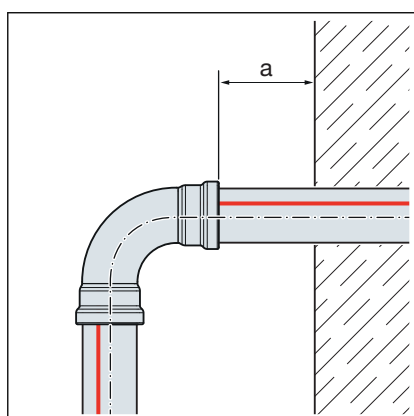
d	64.0	76.1	88.9	108.0
a [mm]	110	110	120	135
b [mm]	185	185	200	215

Pressing between pipe and wall



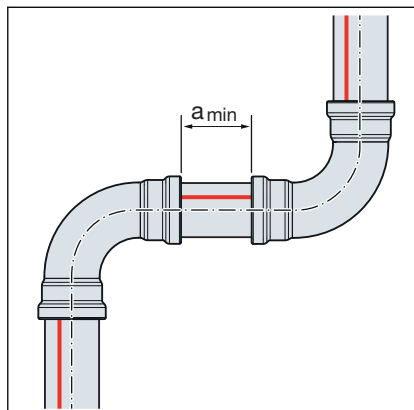
d	64.0	76.1	88.9	108.0
a [mm]	110	110	120	135
b [mm]	185	185	200	215
c [mm]	130	130	140	155

Wall distance



d	64.0–108.0
Minimum interval a_{min} [mm]	20

Interval between the pressings



d	64.0–108.0
Minimum distance a [mm]	15

Z dimensions

For the Z dimensions, refer to the respective product page in the online catalogue.

3.3.5 Required tools



NOTICE!

Prestabo XL connectors may only be pressed with Viega press rings in the dimensions 64.0–108.0. Connection with Viega press chains in the dimensions 76.1–108.0 is not permitted.

The following tools are required for production of a press connection:

- pipe cutter or a fine-toothed hacksaw
- deburrer and coloured pen for marking
- press machine with constant pressing force of 32 kN
- Press ring with corresponding hinged adapter jaw, suitable for the pipe diameter and with suitable profile

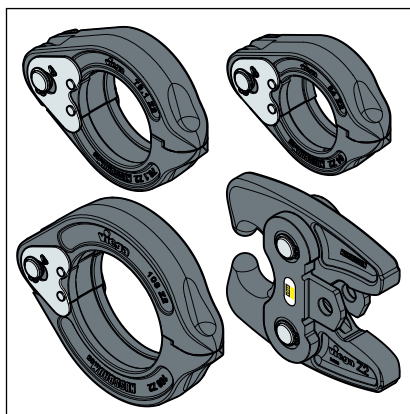


Fig. 10: Press rings and hinged adapter jaw



Viega recommends the use of Viega system tools when installing the press fittings.

The Viega system press tools have been developed and tailored specifically for the installation of Viega press connector systems.

3.4 Assembly

3.4.1 Replacing the sealing element

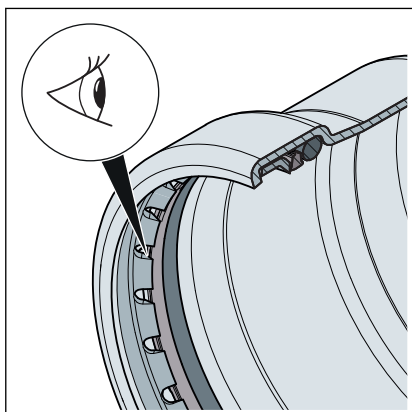


Fig. 11: Cutting ring



CAUTION! Risk of injury due to sharp edges

There is a separator ring and a sharp-edged cutting ring above the sealing element (see arrow). There is a risk of injury (cutting) when replacing the sealing element.

- Do not reach into the press connector with your bare hands.

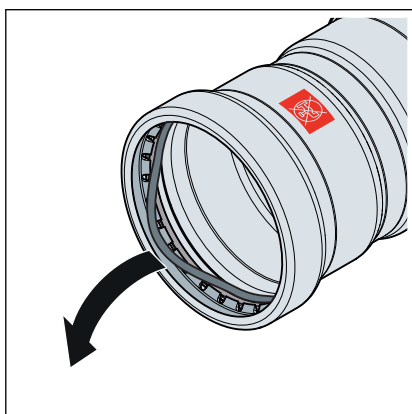
Removing the sealing element



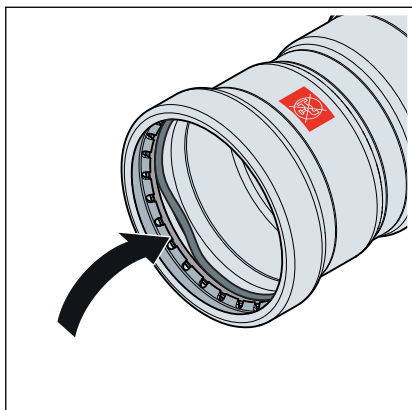
Do not use pointed or sharp-edged objects to remove the sealing element. They may damage the sealing element or the bead.

- Remove the sealing element from the bead, leaving the separator ring in the press connector.

Proceed carefully to avoid damaging the separator ring and sealing element seat.



Inserting the sealing element



- Insert a new, undamaged sealing element into the bead below the separator ring.
Make sure that the sealing element is not damaged by the cutting ring.
- Ensure that the complete sealing element is in the bead.

3.4.2 Shortening the pipes



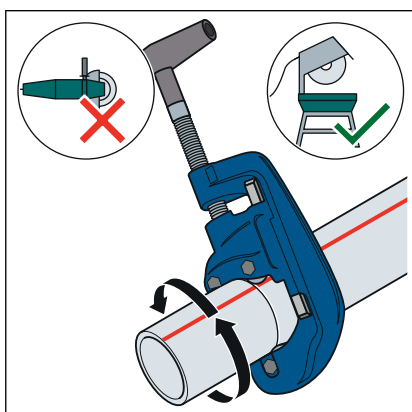
NOTICE! **Leaking press connections due to damaged material!**

Press connections can become leaky due to damaged pipes or sealing elements.

Observe the following instructions to avoid damage to pipes and sealing elements:

- Do not use cutting discs (angle grinders) or flame cutters when cutting to length.
- Do not use grease or oils (e. g. cutting oil).

For information about tools, also see ➤ *Chapter 3.3.5 'Required tools' on page 21.*



- Cut the pipe using a pipe cutter or fine-toothed hacksaw.
Avoid grooves on the pipe surface.

3.4.3 Deburring the pipes

The pipe ends must be thoroughly deburred internally and externally after shortening.

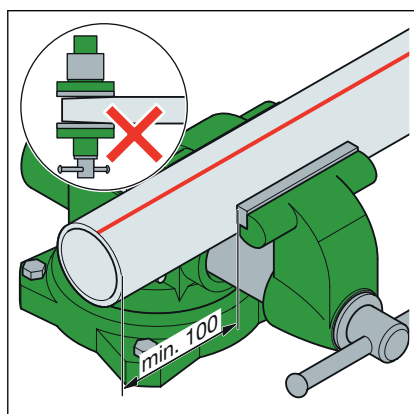
Deburring prevents the sealing element being damaged or the that the press connector cants when mounted. Viega recommends using a deburrer (model 2292.4XL).



NOTICE!

Damage due to the wrong tool!

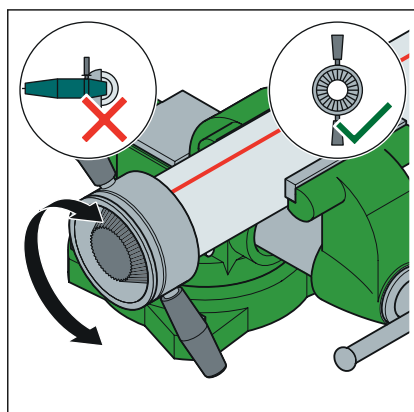
Do not use sanding disks or similar tools when deburring.
The pipes could be damaged by these.



➤ Secure the pipe in the vice.

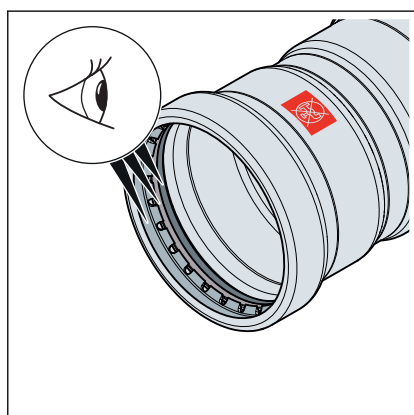
➤ When clamping, leave an interval of at least 100 mm (a) to the pipe end.

The pipe ends must not be bent or damaged.



➤ Deburr the inside and outside of the pipe.

3.4.4 Pressing the connection

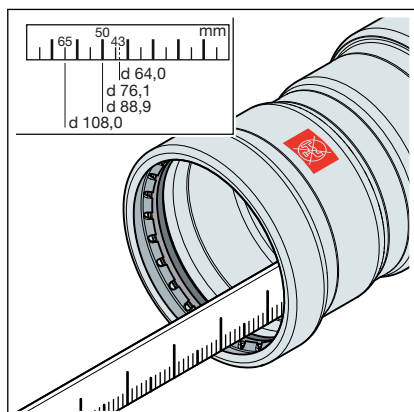


Requirements:

- The pipe end is not bent or damaged.
- The pipe is deburred.
- The correct sealing element is in the press connector.
EPDM = polished black
FKM = matt black

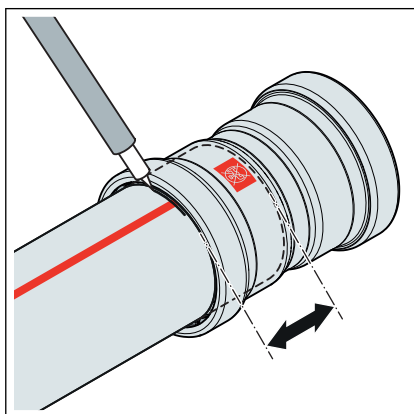
- Sealing element, separator ring and cutting ring are undamaged.
- The complete sealing element, separator ring and cutting ring are in the bead.

- Measure insertion depth in the connector.



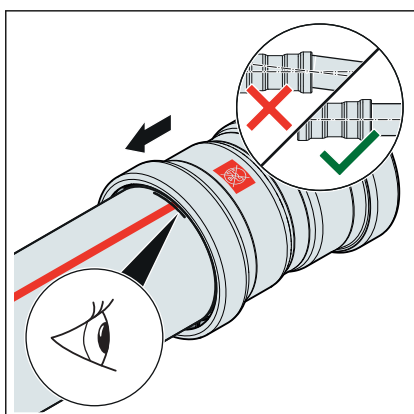
d [mm]	Insertion depth [mm]
64.0	43
76.1	50
88.9	50
108.0	60

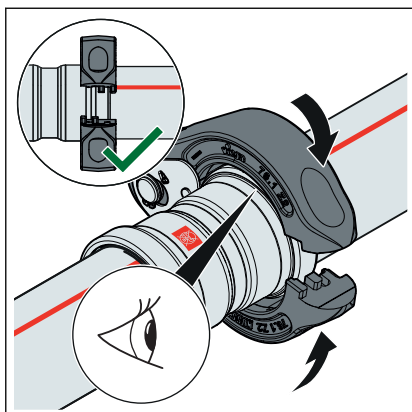
- Mark the insertion depth on the pipe.



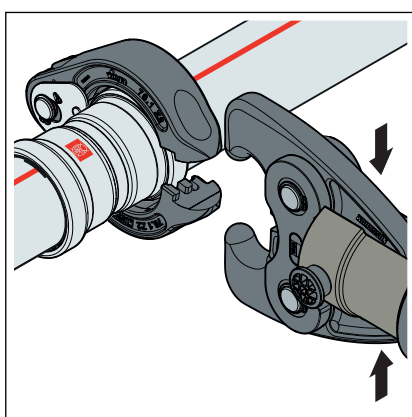
- Push the press connector up to the marked insertion depth on the pipe. Do not twist the press connector.
- Place the hinged adapter jaw onto the press machine and push the retaining bolt in until it clicks into place.

INFO! Observe the press tool instruction manual.

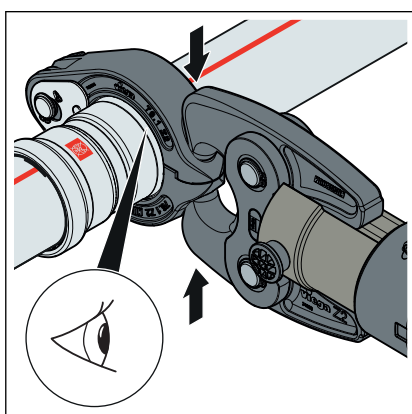




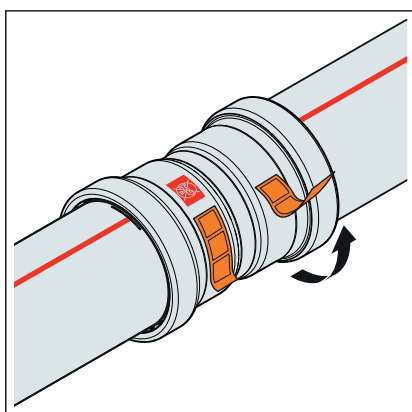
- Place the press ring onto the press connector. The press ring must completely cover the outside ring of the press connector.



- Open the hinged adapter jaw.



- Position the hinged adapter jaw into the seat of the press ring.
- Carry out the pressing process.
- Open the hinged adapter jaw and remove the press ring.



- Remove the checking strip.
- The connection is marked as having been pressed.

3.4.5 Leakage test

The installer must perform a leakage test before commissioning.

Carry out this test on a system that is finished but not covered yet.

Observe the applicable regulations, see ↗ *'Regulations from section: Leakage test' on page 6.*

The leakage test pursuant to the applicable regulations must also be carried out for non-potable water installations, see ↗ *'Regulations from section: Leakage test' on page 6.*

Document the result.



To prevent corrosion, the system must remain full of water after the leakage test has been performed.

For the filling and top-up water, comply with the requirements specified in the applicable regulations, see ↗ *'Regulations from section: Leakage test' on page 6.*

3.5 Disposal

Separate the product and packaging materials (e. g. paper, metal, plastic or non-ferrous metals) and dispose of in accordance with valid national legal requirements.



Viega GmbH & Co. KG
service-technik@viega.de
viega.com

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