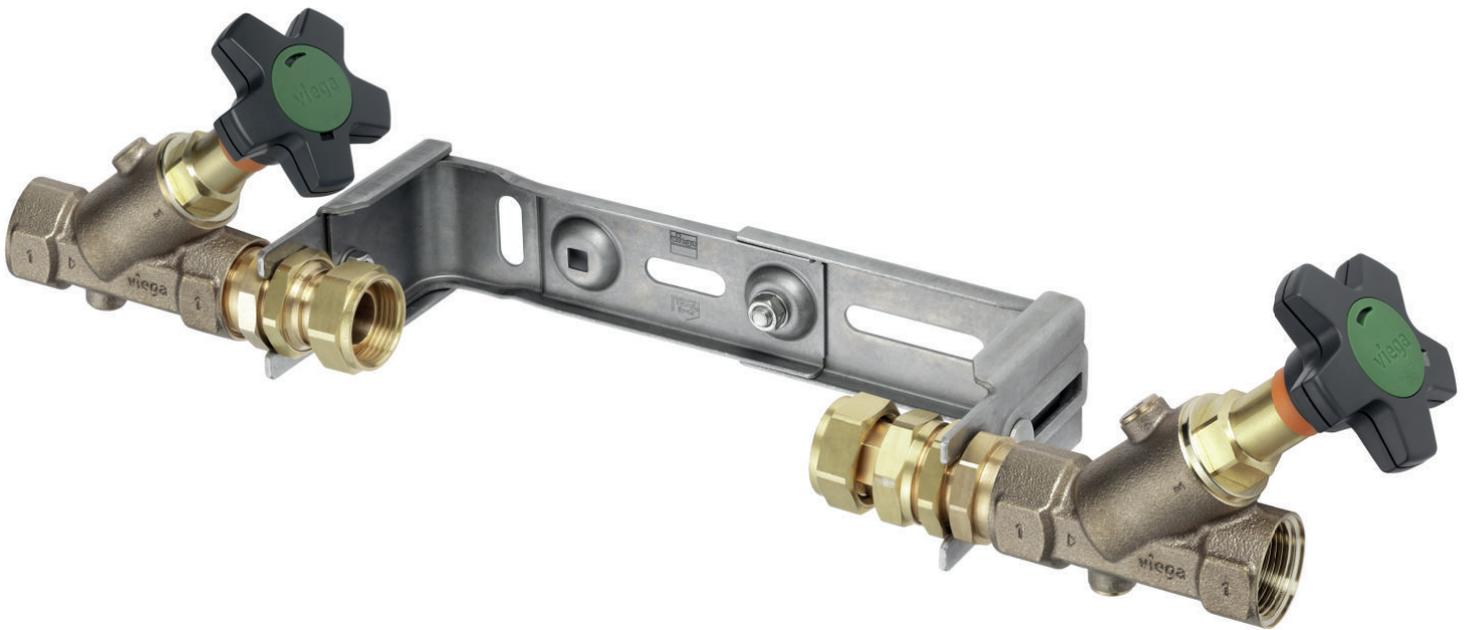


Easytop mounting unit with SC-Contur Instructions for Use



for water meters

Model
2230.12

Year built:
from 02/2008

en_INT

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: Fields of application

Scope / Notice	Regulations applicable in Germany
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 1
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 2
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 3
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 4
Planning, execution, operation and maintenance of potable water installations	DIN EN 806, part 5
Planning, execution, operation and maintenance of potable water installations	DIN EN 1717
Planning, execution, operation and maintenance of potable water installations	DIN 1988
Planning, execution, operation and maintenance of potable water installations	VDI/DVGW 6023
Planning, execution, operation and maintenance of potable water installations	Trinkwasserverordnung (TrinkwV)

Regulations from section: Media

Scope / Notice	Regulations applicable in Germany
Suitability for drinking water	Trinkwasserverordnung (TrinkwV)

Regulations from section: Product description

Scope / Notice	Regulations applicable in Germany
Suitability for drinking water installations	Trinkwasserverordnung (TrinkwV)
Suitability for drinking water installations	DIN 50930-6
Requirements in plastic components in drinking water installations	DVGW-Arbeitsblatt W270

Regulations from section: Overview

Scope / Notice	Regulations applicable in Germany
Compliance with the inspection requirements (fittings group I)	DIN EN 1213

Regulations from section: Threaded connection

Scope / Notice	Regulations applicable in Germany
Threaded pair	DIN EN 10226-1
Permitted sealants	DIN 30660
Permitted sealants	DIN EN 751-2

Regulations from section: Marking on components

Scope / Notice	Regulations applicable in Germany
Designation noise class I	DIN EN 1213
EA marking for classification	DIN EN 1717

Regulations from section: Compatible components

Scope / Notice	Regulations applicable in Germany
Permitted pipe types	DVGW-Arbeitsblatt W 534
Permitted copper pipes	DVGW-Arbeitsblatt GW 392
Permitted copper pipes	DIN EN 1057
Permitted stainless steel pipes	DVGW-Arbeitsblatt GW 541
Permitted stainless steel pipes	DIN EN 10312
Permitted stainless steel pipes	DIN EN 10088

Regulations from section: Corrosion

Scope / Notice	Regulations applicable in Germany
External corrosion protection	DIN EN 806-2
External corrosion protection	DIN 1988-200
External corrosion protection	DKI-Informationsdruck i. 160

Regulations from section: Leakage test

Scope / Notice	Regulations applicable in Germany
Leakage test for potable water installations	DIN EN 806, part 4
Leakage test for potable water installations	ZVSHK-Merkblatt „Dichtheitsprüfungen von Trinkwasserinstallationen mit Druckluft, Inertgas oder Wasser“

Regulations from section: Maintenance

Scope / Notice	Regulations applicable in Germany
Operation and maintenance of potable water installations	DIN EN 806-5

2.2 Intended use



Coordinate the use of the model for areas of use and media other than those described with the Viega Service Center.

2.2.1 Areas of use

Use is possible in the following areas among others:

- Drinking water installations

The general rules of engineering and the applicable regulations must be observed for planning, execution, operation and maintenance potable water installations, see ↗ „Regulations from section: Fields of application“ on page 6.

2.2.2 Media

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

- Drinking water without limitations acc. to the applicable directives, see ↗ „Regulations from section: Media“ on page 6
- maximum chloride concentration 250 mg/l pursuant to applicable regulations, see ↗ „Regulations from section: Media“ on page 6

2.3 Product description

According to the applicable regulations, Easytop system fittings can be used for all types of potable water and are DVGW certified, see ↗ „Regulations from section: Product description“ on page 7. Their plastic components comply with the KTW recommendation and the requirements pursuant to the applicable regulations.

2.3.1 Overview



*The Easytop system fittings comply with the test requirements specified in the applicable regulations, see ↗ „Regulations from section: Overview“ on page 7.
Sound protection $L_{ap} \leq 20$ dB(A)*

The Easytop mounting unit is suitable for the horizontal and vertical mounting of water meters.

The model is equipped as follows:

- water meter bow made of stainless steel, stainless, depth and length-adjustable
- water meter screw connection, inlet side sealable, outlet side length-adjustable
- inlet side Easytop slanted seat valve model 2230.52
- outlet side Easytop CRV slanted seat valve model 2230.92
- all parts that come into contact with water are made of gunmetal/silicon bronze
- fixing material

Backflow preventer

The model is fitted with a backflow preventer.

Backflow preventers only allow flowthrough in one direction (in the direction of flow). If the direction of flow changes, e.g. due to back suction, the backflow preventers close automatically.

The model is available in the following dimensions:

Q3	4
Qn	2.5
d	28
Rp	1

2.3.2 Press connection with SC-Contur



Fig. 1: Press connection using a press connector as an example

The press connection has a circumferential bead in which the sealing element lies. The connector is deformed upstream and downstream of the bead and permanently connected to the pipe during pressing. The sealing element is not deformed during pressing.

SC-Contur



Fig. 2: SC-Contur

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

Viega guarantees that unpressed connections are visible during a leakage test:

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

2.3.3 Sealing elements

Area of use of the EPDM sealing element



NOTICE!

Only EPDM sealing elements are approved in potable water installations. The use of other sealing elements is not permitted.

The model is factory-fitted with an EPDM sealing element.

Area of use	Potable water
Operating temperature [T_{max}]	20 °C
Operating pressure [P_{max}]	1.6 MPa (16 bar)
Comments	see notes ↗ Chapter 2.2.2 „Media“ on page 9

2.3.4 Threaded connection

Prerequisite for a threaded connection, which seals via a thread, is a threaded pair in accordance with applicable regulations, see  „Regulations from section: Threaded connection“ on page 7. Pursuant to these regulations, a permitted threaded pair comprises a conical external thread and a cylindrical internal thread, e.g. R $\frac{3}{4}$ and Rp $\frac{3}{4}$.

Only use commercially available and chloride-free, DVGW approved sealant in accordance with the applicable regulations to seal threads, see  „Regulations from section: Threaded connection“ on page 7.

2.3.5 Markings on components

The model is marked as follows:

- flow direction indicator
- noise class I pursuant to applicable regulations, see  „Regulations from section: Marking on components“ on page 7
- dimension
- DVGW writing
- position indicator below the handwheel
- green dot for potable water
- Easytop CRV slanted seat valve with CRV writing and EA marking for classification in accordance with applicable regulations, see  „Regulations from section: Marking on components“ on page 7

2.3.6 Compatible components

The model is suitable for the mounting of water meters sizes Qn 2.5 and Q3 4.

The model is equipped with press connections and compatible with the Profipress, Sanpress and Sanpress Inox system.

Pipes

The press connections are tested and approved according to the applicable regulations with the following pipe types:

- Copper pipes
 - see  „Regulations from section: Compatible components“ on page 8
- Stainless steel pipes (material 1.4401 / 1.4521)
 - see  „Regulations from section: Compatible components“ on page 8

Should you have any questions on this subject, please contact the Viega Service Center.

2.3.7 Technical data

Observe the following operating conditions for the installation of the model:

Operating temperature [T _{max}]	20 °C
Operating pressure [P _{max}]	1.6 MPa (16 bar)

2.4 Information for use

2.4.1 Corrosion

Overground pipelines and fittings in rooms do not normally require external corrosion protection.

There are exceptions in the following cases:

- Contact with aggressive building materials such as nitrite or materials containing ammonium
- in aggressive surroundings

If external corrosion protection is required, observe the pertinent guidelines, see ↗ „Regulations from section: Corrosion“ on page 8.



Easytop fittings made of gunmetal/silicon bronze are suitable for all types of potable water.

The chloride concentration in the medium must not exceed a maximum value of 250 mg/l.

This chloride is not a disinfectant, but in fact pertains to the content in sea and table salt (sodium chloride).

3 Handling

3.1 Assembly information

3.1.1 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 2.3.3 „Sealing elements“ on page 11. The use of other sealing elements is not permitted.

3.1.2 Mounting instructions

Checking system components



Do not remove the model from the packaging until immediately before use.

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

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

During assembly

Observe the following when mounting:

- flow direction indicator
- use suitable tools



Choose the place of installation so that the Easytop mounting unit is easy to access and to operate and the water meter can be mounted without any problems.

Laying and fixing pipes

For information, refer to the instructions for use of the Profipress, Sanpress and Sanpress Inox systems.

Length expansion

For information, refer to the instructions for use of the Profipress, Sanpress and Sanpress Inox systems.

3.1.3 Required tools

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
- Press jaw or press ring with corresponding hinged adapter jaw, suitable for the pipe diameter and suitable profile



Fig. 3: Press jaws

Recommended Viega press machines:

- Pressgun 5
- Pressgun Picco
- Pressgun 4E / 4B
- Picco
- Type PT3-AH
- Type PT3-H / EH
- Type 2 (PT2)

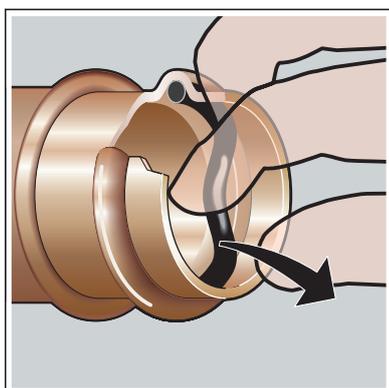
3.2 Assembly

3.2.1 Replacing the sealing element

Removing the sealing element

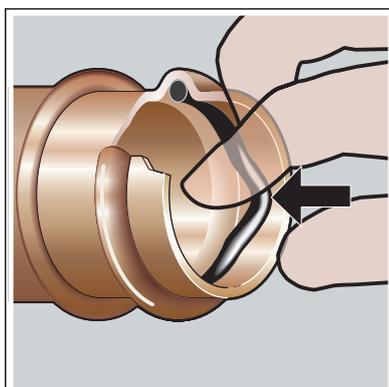


Do not use pointed or sharp-edged objects to remove the sealing element. These could damage the sealing element or bead.



- Remove the sealing element from the bead.

Inserting the sealing element



- Insert a new, undamaged sealing element into the bead.
- Ensure that the complete sealing element is in the bead.

3.2.2 Shortening the pipes



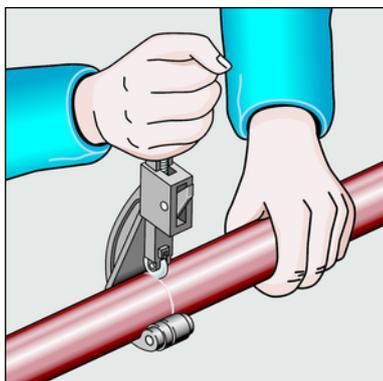
NOTICE!
Leaky press connections due to damaged material!

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 3.1.3 „Required tools“](#) on page 15.



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

3.2.3 Pressing the connection

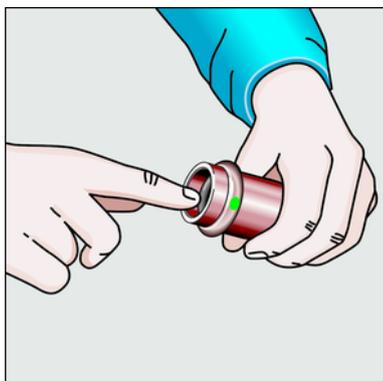


NOTICE!

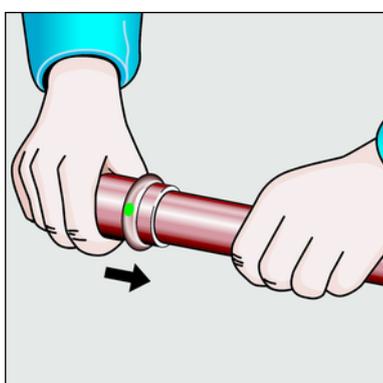
Leaky press connections due to pipes being too short

If two press connectors are to be mounted onto a pipe without an interval, the pipe must not be too short. If the pipe is not inserted up to the prescribed insertion depth in the press connector during pressing, the connection may become leaky.

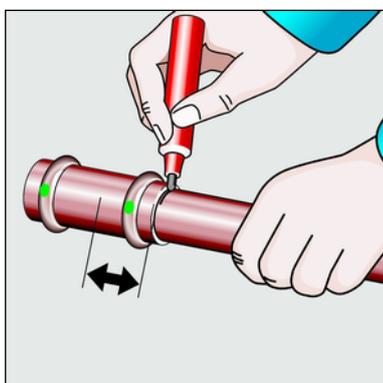
With pipes with a diameter of d 15–28 mm, the length of the pipe must be at least as long as the total insertion depth of both press connectors.


Requirements:

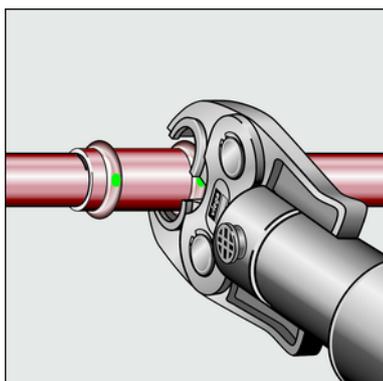
- The pipe end is not bent or damaged.
- The pipe is deburred.
- The correct sealing element is in the press connector.
EPDM = polished black
- The sealing element is undamaged.
- The complete sealing element is in the bead.



- Push the press connector onto the pipe as far as it will go.



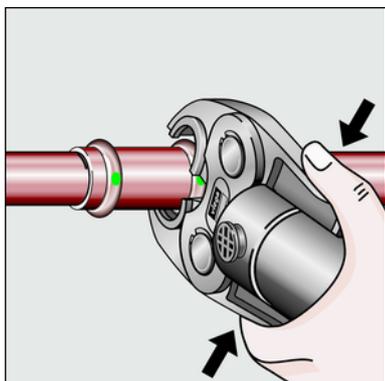
- Mark the insertion depth.



- Place the press jaw onto the press machine and push the retaining bolt in until it clicks into place.

INFO! Observe the press tool instruction manual.

- Open the press jaw and place at a right-angle onto the connector.
- Check the insertion depth using the marking.
- Ensure that the press jaw is placed centrally on the bead of the press connector.



► Carry out the pressing process.

► Open and remove the press jaw.

⇒ Connection is pressed.

3.2.4 Mounting preparation

Mounting is demonstrated with the example model 2230.15.



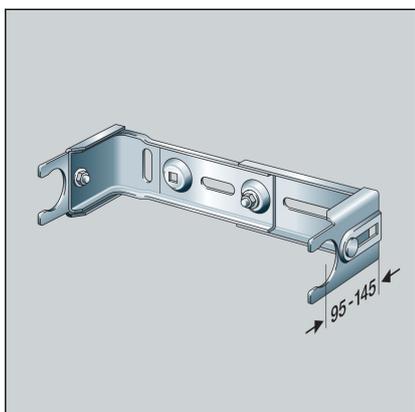
NOTICE!

The supplied fixing set is designed for installation on a solid wall.

Adapt the fixing material to the ground and the ambient conditions.

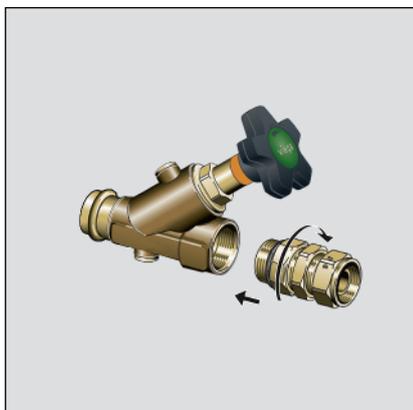
3.2.5 Horizontal installation

Assembly steps



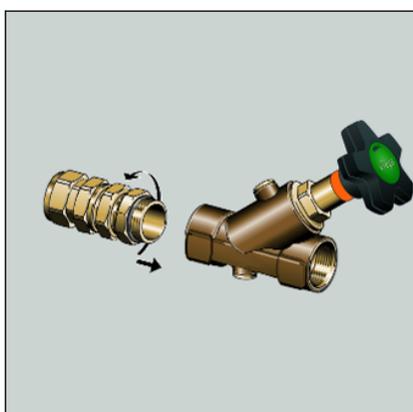
► Attach the water meter bow to the wall.

► Set the required distance to the wall for the water meter.



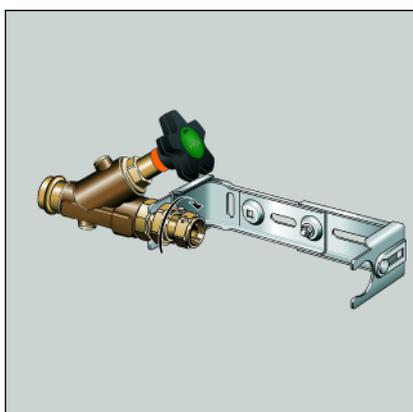
- Inlet:**
 Screw the water meter screw connection into the Easytop slanted seat valve. Sealing is achieved using an O-Ring.

INFO! Use the adapters supplied with article 717902. Sealing is achieved using an O-Ring.

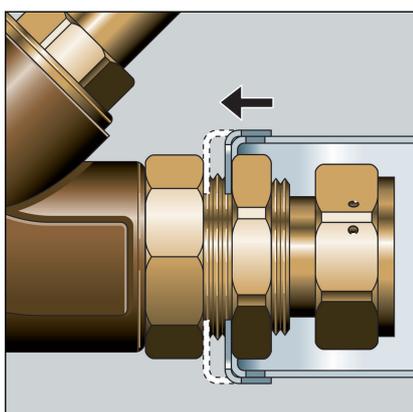


- Outlet:**
 Screw the water meter screw connection into the Easytop CRV slanted seat valve. Sealing is achieved using an O-Ring.

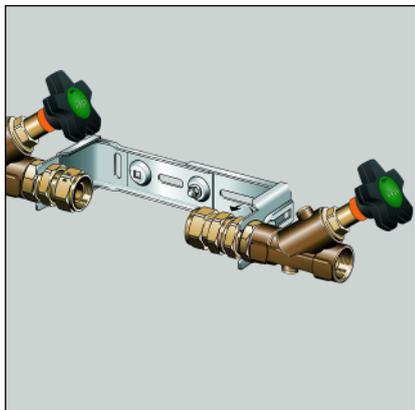
INFO! Use the adapters supplied with article 717902. Sealing is achieved using an O-Ring.



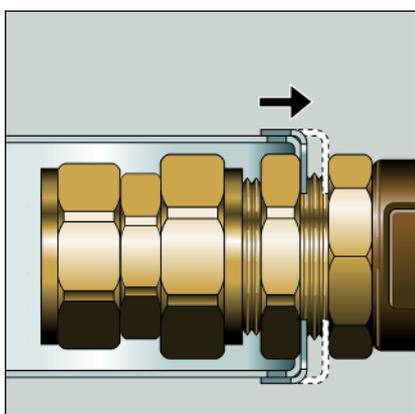
- Secure the Easytop slanted seat valve on the water meter bow.**
NOTICE! Observe the flow direction!



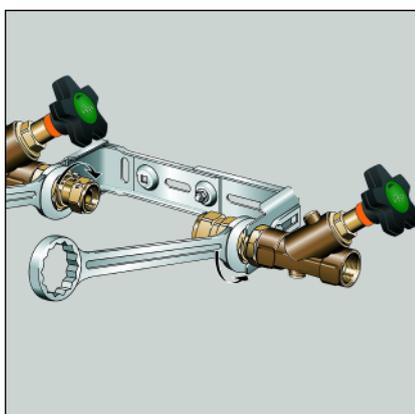
- Screw the lock nut finger-tight against the water meter bow.**



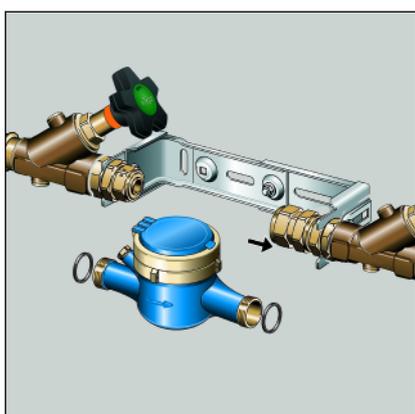
- Secure the Easytop CRV slanted seat valve on the water meter bow.
NOTICE! Observe the flow direction!



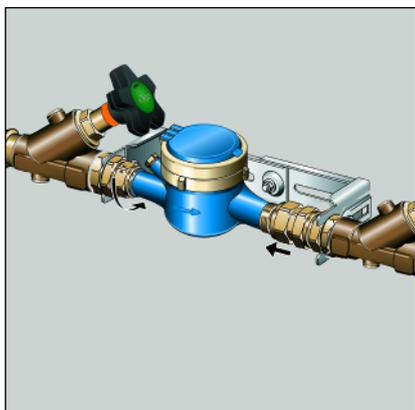
- Screw the lock nut finger-tight against the water meter bow.



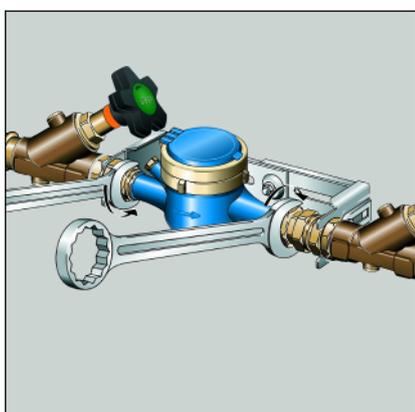
- Tighten the lock nuts of the water meter screw connection.



- Loosen the fixing nut of the slide and push in the slide.



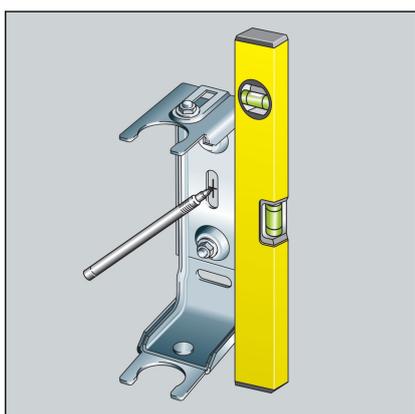
- Place the water meter with seal on the inlet screw fitting and tighten finger-tight.
- Push the slide with seal back to the water meter and tighten the screw fitting finger-tight.



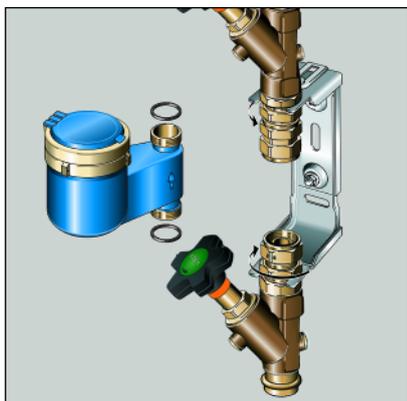
- Tighten the water meter screw connections.
- Tighten the fixing nut of the slide.

3.2.6 Vertical installation

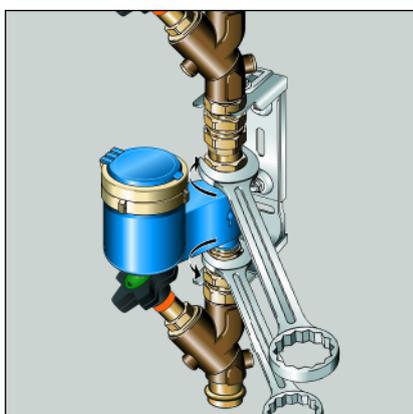
Assembly steps



- Use the water meter for vertical mounting.
- Carry out the assembly steps as with the horizontal installation.



- Tighten the lock nuts of the water meter screw connection.
- Loosen the fixing nut of the slide and push in the slide.
- Place the water meter with seal on the inlet screw fitting and tighten finger-tight.
- Push the slide with seal back to the water meter and tighten the screw fitting finger-tight.



- Tighten the water meter screw connections.
- Tighten the fixing nut of the slide.

3.2.7 Leakage test

The installer must perform a leakage test before commissioning.

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

Comply with the general rules of engineering and the applicable directives, see ↗ „Regulations from section: Leakage test“ on page 8.

Document the result.

3.3 Maintenance



NOTICE!

Inform your customer or the operator of the drinking water installation that the system has to be maintained on a regular basis.

Observe the applicable regulations for the operation and maintenance of drinking water installations, see ↗ „Regulations from section: Maintenance“ on page 8.



Viega recommends actuating the fitting regularly and checking its function.

Replacing the valve top

When the valve tops need to be replaced, use the models 2237.22 and 2238.22.

Replace water meter screw connection

When the water meter screw connection needs to be replaced, use the model 2230.71.

3.4 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.