

Easytop concealed straight seat valve with SC-Contur

Instructions for Use



for drinking water installation

Model
2134

Year built:
from 07/2007

en_INT

viega

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1 About these instructions for use

Trade mark rights exist for this document, further information can be found at www.viega.com/legal-notices.

1.1 Target groups

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

It is not permitted for individuals without the abovementioned training or qualification to mount, install and, if required, service 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 against possible life-threatening injury.
	WARNING! This symbol warns against possible serious injury.
	CAUTION! This symbol warns against possible injury.
	NOTICE! This symbol warns against possible damage to property.
	<i>Notes give you additional helpful tips.</i>

2 Product information

2.1 Intended use



The use of the model for areas of use and media other than those described must be approved by the Viega Service Center.

2.1.1 Areas of use

Use is possible in the following areas among others:

- Drinking water installations
 - with Sanfix Fosta PE-Xc/Al/PE-Xc pipes (dimensionally stable with external oxygen seal coat)
 - with Sanfix PE-Xc pipes (flexible without external oxygen seal coat)

The model serves as a shut-off for the storey units.

The general rules of engineering must be observed for planning, execution, operation and maintenance of drinking water installations.

E. g. the following regulations apply:

- DIN EN 806 Part 1–5 and DIN EN 1717
- Supplementary national regulations amongst others DIN 1988, VDI/DVGW 6023 and Drinking Water Ordinance (DWO)

2.1.2 Media

The model is suitable for the following media, among others:

- Drinking water without limitations
in acc. with DWO
- max. chloride concentration 250 mg/l
in acc. with DWO

2.2 Product description

Easytop system fittings can be used for all types of drinking water in acc. with DWO and DIN 50930-6 and are DVGW certified. Their plastic components conform with the KTW recommendation and the requirements of the DVGW Worksheet W 270.

2.2.1 Overview



*The Easytop system fittings comply with the testing criteria of DIN EN 1213: 1999 (Fitting group I).
Sound protection $L_{ap} \leq 20 \text{ dB(A)}$*

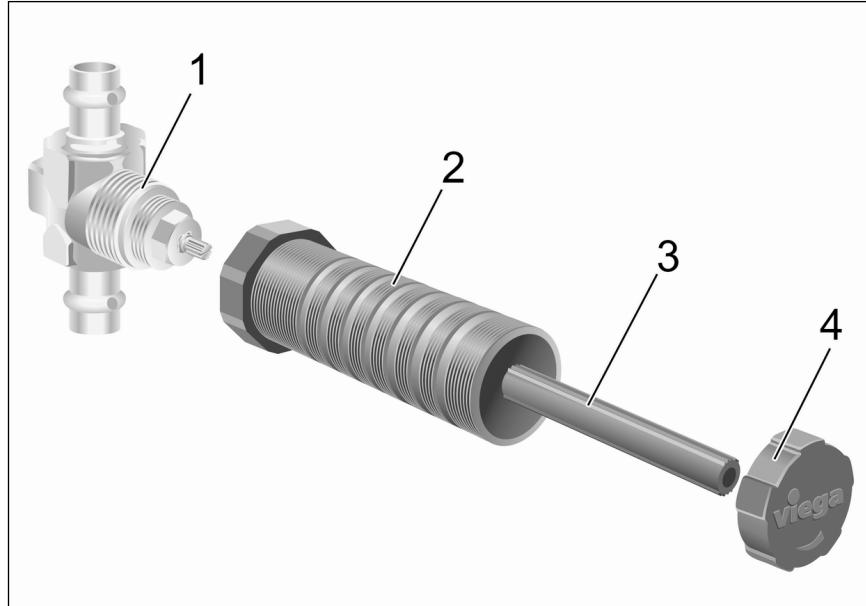


Fig. 1: Installation of a straight seat valve with model 2235 as an example

- 1 - Easytop concealed straight seat valve
- 2 - protective sleeve
- 3 - driver
- 4 - protective cap

The model is equipped as follows:

- upper part
- site protection
- valve casing made of gunmetal
- valve seat made of stainless steel
- dual-sided Sanfix P press connection with SC-Contur
- green dot for drinking water

The model is available in the following dimensions: d 16 / 20 / 25 / 32.

2.2.2 Press connection with SC-Contur

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 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)

2.2.3 Sealing elements



NOTICE!

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

The model is factory-fitted with EPDM sealing elements.

Area of use	Drinking water
Area of use	all piping sections
Operating temperature [T _{max}]	70 °C
Operating pressure [P _{max}]	1.0 MPa (10 bar)
Comments:	see note ↗ <i>Chapter 2.1.2 „Media“ on page 5</i>

2.2.4 Markings on components

The press connections are marked with a coloured dot. This identifies the SC-Contur, where the test medium would escape in the case of an inadvertently unpressed connection.

The model is marked as follows:

- Flow direction indicator
- Noise class I in acc. with DIN EN 1213
- Dimension
- DWGW writing
- green dot for drinking water
- Position indicator

2.2.5 Compatible components

The model is equipped with Sanfix P press connections and compatible with the Sanfix / Sanfix Fosta systems.

2.2.6 Technical data

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

Operating temperature [$T_{max.}$]	70 °C
Operating pressure [$P_{max.}$]	1.0 MPa (10 bar)

2.3 Information for use

2.3.1 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
- Contact with aggressive chemicals
- in aggressive surroundings

If external corrosion protection is required, the following regulations should be followed:

- DIN EN 806-2
- DIN 1988-200
- DKI information publication i. 160



Easytop fittings made of gunmetal are suitable for all types of drinking water.

The chloride concentration in the medium must not exceed 250 mg/l.

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

2.4 Optional accessories

The following optional accessories are available:

- Insulating shell
- Equipment sets
- Public building model
- Mounting sets

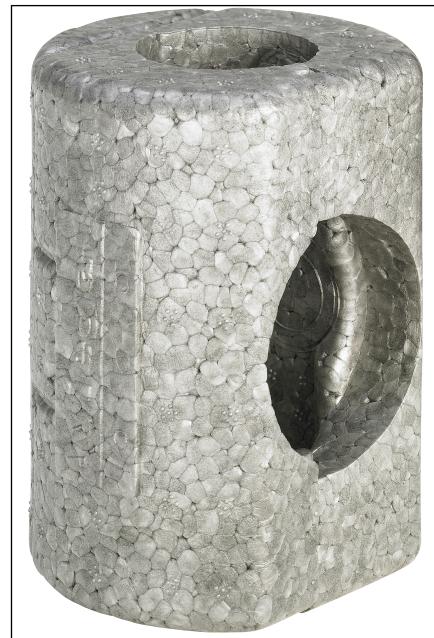


Fig. 3: 2210.40 Insulating shell



Fig. 4: 2236.10 Equipment set

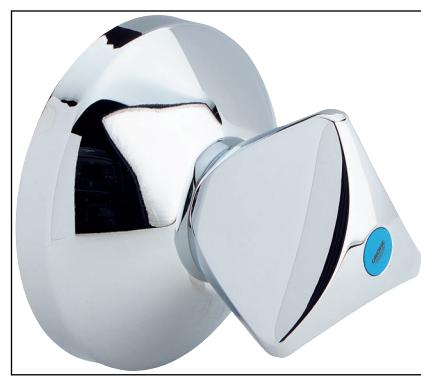


Fig. 5: 2236 Equipment set



Fig. 6: 2236.50 Public building model



Fig. 7: 2235.90 Mounting set front

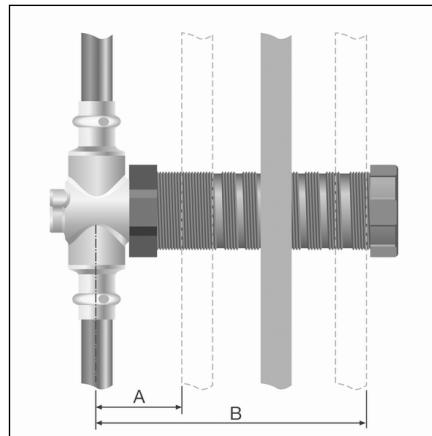


Fig. 8: 2235.95 Mounting set back

3 Handling

3.1 Assembly information

3.1.1 Installation dimensions



A - at least 45 mm

B - maximum 130 mm

(when using model 2236 maximum 80 mm)

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 the model:

- minimum / maximum installation depth
- Use suitable tools



Choose the place of installation so that the fitting is easily accessible, simple to operate and the insulating shell can be well mounted.

Laying and fixing pipes

Information can be found in the Sanfix / Sanfix Fosta system instructions for use.

Length expansion

Information can be found in the Sanfix / Sanfix Fosta system instructions for use.

3.1.3 Required tools

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



Hand or electric saws or angle grinders are not permitted.

- Press machine with constant pressing force
- suitable Sanfix press jaws for PE-Xc systems (model 2299.7 or 2484.7)
- Pipe shear (model 5341) for dimensions 16–25 mm
- Pipe cutters (model 2191) for dimensions 32–63 mm
- Bending tool (model 5331 or 5331.2)
- Calibrating tool suitable for the pipe size:
 - 16 / 20 mm (model 2139.0)
 - 25 / 32 / 40 mm (model 2139.3)



Fig. 9: 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 Shortening the pipes



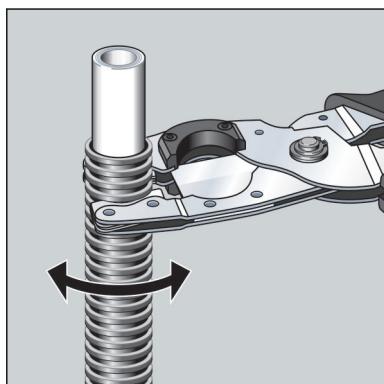
NOTICE!

Leaky press connections due to damaged material

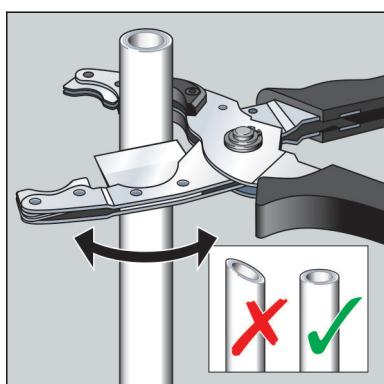
Press connections can become leaky due to damaged pipes.

See *Chapter 3.1.3 „Required tools“ on page 14* for information about tools.

Dimensions 16–25 mm

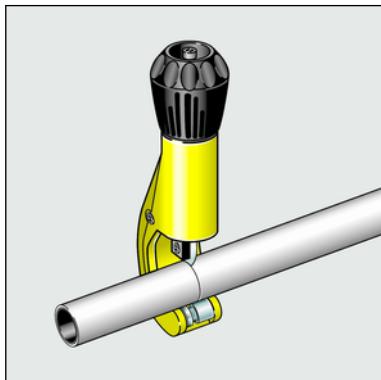


- ▶ Cut the protective pipe to length using the protective pipe cutter (model 5341).



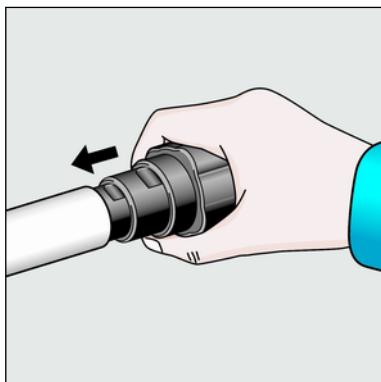
- ▶ Cut pipe to length properly using a pipe shear.
Make sure that the cut surface is clean and straight (see illustration on bottom right).

Dimensions 32–63 mm



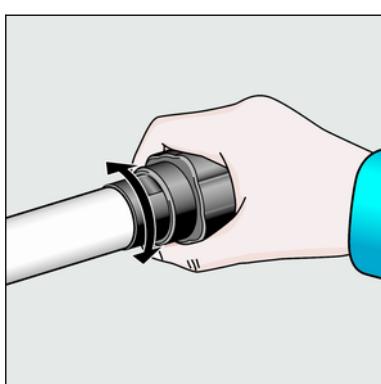
► Cut the pipe to length properly using a pipe cutter (model 2191).

3.2.2 Calibrating the pipes



► Using the calibrating tool, prepare pipe ends ≥ 25 mm and deformed pipe ends before pressing.

Push the calibrating tool in as far as it will go.



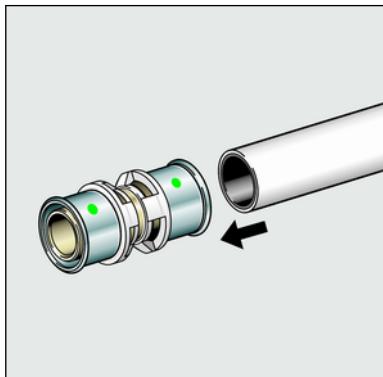
► Calibrate the pipe with turning movements.

⇒ Pipe is calibrated.

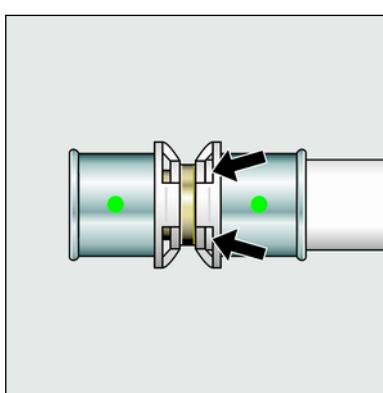
3.2.3 Pressing the connection



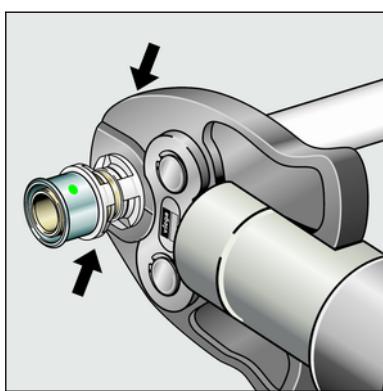
Information regarding the intervals can be found in the Sanfix / Sanfix Fosta system instructions for use.



► Push the pipe into the press connector until the pipe end is visible in the inspection window.



► Check insertion depth in the inspection window.



► Open press jaw and place at a right-angle onto the connector. Start pressing.

⇒ Connection is pressed.

3.2.4 Mounting the valve

A functionality test must be carried out after mounting.



Installation is possible in masonry (wet construction) and in dry constructions (pre-wall / duct installations).

Attaching in dry constructions



Fig. 10: 2235.95 Fixing set back



Fig. 11: 2235.90 Fixing set front

- ▶ Attach the fitting from behind with the fixing set onto a Viega fitting holder with slot nuts.
- ▶ Seal wall lead-in on the front side of the wall with the self-adhesive sealing flange.

Actuating the valve

- ▶ Open or close the valve clockwise or anti-clockwise respectively.
- ▶ During the preliminary building work phases:
 - Actuate the valve via the protective cap.

3.2.5 Leakage test

The installer must perform a leakage test before commissioning.

This test is carried out on a unit that is finished but not yet covered.

The general rules of engineering must be observed.

E. g. the following regulations apply:

- DIN EN 806-4

The result must be documented.

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.

DIN EN 806-5 must be observed for the operation and maintenance of drinking water installations.



We recommend actuating the fitting regularly and checking its function.

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.