Easytop slanted seat valve with SC-Contur

Instructions for Use

for Easytop water meter bow model 2230.70

Model
2230.55

Year built:
from 04/2006

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)
Planning, execution, operation and maintenance of potable water installations	DIN EN 805
Planning, execution, operation and maintenance of potable water installations	DVGW-Arbeitsblatt W 400-1

Scope / Notice	Regulations applicable in Germany
Planning, execution, operation and maintenance of potable water installations	DVGW-Arbeitsblatt W 400-2
Planning, execution, operation and maintenance of potable water installations	DVGW-Arbeitsblatt W 400-3

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

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 model is suitable for Easytop mounting units and Easytop water meter bows.

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 7*
- maximum chloride concentration 250 mg/l pursuant to applicable regulations, see *„Regulations from section: Media“ on page 7*

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} ≤ 20 dB(A)

The model is equipped as follows:

- valve casing made of gunmetal/silicon bronze
- valve top made of gunmetal/silicon bronze (dead space free)
- valve seat made of stainless steel
- inlet side Geopress connection with SC-Contur
- outlet side Rp-thread
- non-rising spindle
- position indication open/closed
- handwheel with exchangeable coloured plastic cap as media labelling
- key surface on the casing
- valve and spindle seal made of EPDM (maintenance-free)

The model is available in the following dimensions:

d	32	40
Rp	1	1

2.3.2 Press connection with SC-Contur

SC-Contur

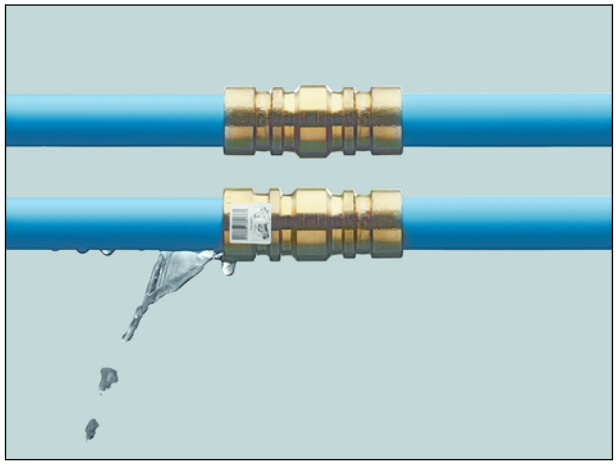

Fig. 1: SC-Contur

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 NBR sealing element

The model is factory-fitted with an NBR 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 ¾ and Rp ¾.

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*.

Establish the threaded connection first and the press connection next.

2.3.5 Markings on components

The press connection is 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 pursuant to applicable regulations, see *„Regulations from section: Marking on components“ on page 8*
- dimension
- DVGW writing
- position indicator below the handwheel
- green dot for potable water

2.3.6 Compatible components

The model is equipped with a Geopress connection and compatible with the Geopress system.

Pipes

Information can be found in the Geopress system instructions for use.

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)

The performance diagram shows the pressure losses (in hPa) in relation to the volume flow and the nominal width.

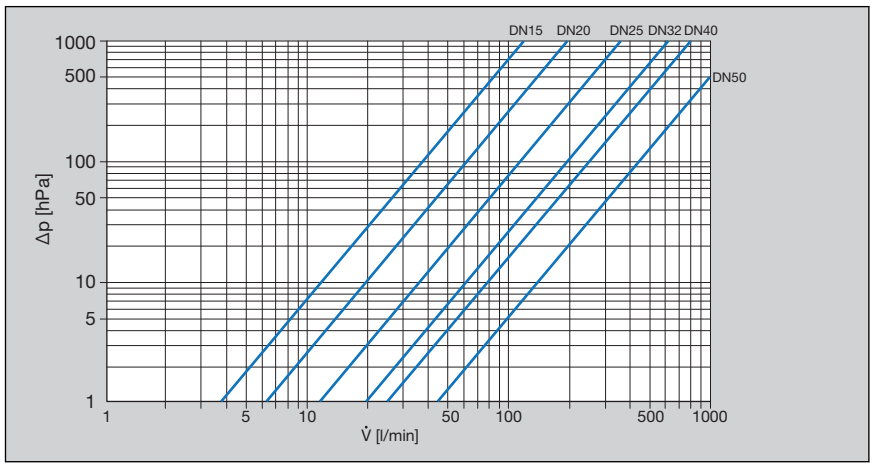

Fig. 2: Performance diagram slanted seat valve press/threaded connection

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 10. 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 fitting is easily accessible, simple to operate and can be well mounted.

Laying and fixing pipes

Information can be found in the Geopress system instructions for use.

Length expansion

Information can be found in the Geopress system instructions for use.

3.1.3 Required tools

Information can be found in the Geopress system instructions for use.

3.2 Assembly

Information can be found in the Geopress system instructions for use.

3.2.1 Replacing the sealing element

Information can be found in the Geopress system instructions for use.

3.2.2 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

If the valve top needs to be replaced, model 2237.22 can be used.

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.