

Gas ball valve with test opening
Instructions for Use



Model
2671.5

Year built:
from 11/2007

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 viega.com/legal.

1.1 Target groups

The information in this instruction manual is directed at the following groups of people:

- contract installers registered in the installers' register of a utility company
- professional specialist companies for the construction, maintenance and alteration of a natural or liquid gas system

Liquid gas systems may only be constructed, maintained or altered by companies that have the necessary qualification and experience.

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.



Notes give you additional helpful tips.

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 pertinent national laws, standards, regulations and guidelines, as well as other technical guidelines, have priority over German/European guidelines in this manual: The information is not binding for other countries and territories and should, as mentioned, be considered as support.

2 Product information

2.1 Standards and regulations

The following standards and regulations apply:

| | Regulations | Scope / Notice |
|----------------------------|-----------------------------------|---|
| Areas of use | DVGW-TRGI 2008 | Gas installations |
| | DVFG-TRF 2012 | Liquid gas systems |
| | DVGW Worksheet G 5614 | Industrial, commercial and process plants |
| | DVGW Worksheet G 462 | Industrial, commercial and process plants |
| | DVGW Worksheet G 459-1 | Industrial, commercial and process plants |
| | DVGW Technical information No. 10 | Industrial, commercial and process plants |
| Media | DVGW Worksheet G 260 | Gas quality |
| Overview | DIN EN 331 | Gas fittings |
| | DIN 3537-1 | Leak tightness |
| Threaded connection | DIN EN 10226-1 | Threaded pair |
| | DIN 30660 | Permitted sealants |
| | DIN EN 751-2 | Permitted sealants |
| Technical data | DIN EN 331 | Operating temperature |
| Corrosion | | |

| | |
|-------------------------------|-------------|
| DIN 30672 | |
| DVGW-TRGI 2008, Point 5.2.7.1 | Outer pipes |
| DVGW-TRGI 2008, Point 5.2.7.2 | Inner pipes |
| DVFG-TRF 2012, Point 7.2.7.1 | Outer pipes |
| DVFG-TRF 2012, Point 7.2.7.2 | Inner pipes |

Mounting instructions

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|-----------------------------|---|
| DVGW-TRGI 2008 | Exceptions, selection criteria, and arrangement of the components |
| DVFG-TRF 2012 | Exceptions, selection criteria, and arrangement of the components |
| DVGW-TRGI 2008, Point 5.3.9 | Application of active and passive protection measures |

Leakage test

| | |
|---------------------------|--|
| DVGW-TRGI 2008, Point 5.6 | |
| DVFG-TRF 2012, Point 8 | Testing and initial commissioning of a liquid gas system |

Maintenance

| | |
|----------------------------|--|
| DVGW-TRGI 2008 Appendix 5c | Operation and maintenance of gas installations |
|----------------------------|--|

2.2 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.

2.2.1 Areas of use

Use is possible in the following areas among others:

- Gas installations
- Liquid gas installations

For planning, execution, modification and operation of gas installations, observe the applicable regulations, see [Chapter 2.1 „Standards and regulations“](#) on page 6.

Use is possible in the gas installations described in the following:

- Gas installations
 - low pressure range ≤ 100 hPa (100 mbar)
 - medium pressure range from 100 hPa (100 mbar) up to 0.1 MPa (1 bar)
- Liquid gas installations
 - with liquid gas tank in medium pressure range downstream of the pressure regulating device, 1st level on the liquid gas tank > 100 hPa (100 mbar) up to a permitted operating pressure of 0.5 MPa (5 bar)
 - with liquid gas tank in the low pressure range ≤ 100 hPa (100 mbar) behind the pressure regulating device, 2nd level
 - with liquid gas pressurised container (liquid gas bottles) < 16 kg behind the small bottle pressure regulating valve
 - with liquid gas tank (liquid gas bottle) ≥ 16 kg behind the large bottle pressure regulating device

Observe the applicable regulations, see ↪ *Chapter 2.1 „Standards and regulations“ on page 6.*

2.2.2 Media

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

- Gases, see ↪ *Chapter 2.1 „Standards and regulations“ on page 6*
- Liquid gases, only in the gaseous state for domestic and commercial applications, see ↪ *Chapter 2.1 „Standards and regulations“ on page 6.*

2.3 Product description

2.3.1 Overview



Viega gas fittings conform with the requirements of the applicable regulations. The gas fittings have been tested and certified by the DVGW in accordance with the following criteria, see ↪ Chapter 2.1 „Standards and regulations“ on page 6:

- *Leak tightness*
- *Higher thermal resistance (HTR)*

The model is equipped as follows:

- casing made of gunmetal
- R external thread
- Rp internal thread
- test opening < 1 mm

- test screw in the dimension G 1/8
- yellow, powder-coated T handle made of metal, rotatable by 90°

The model is lead-sealable and, in addition, can be locked using a commercially available padlock.

The model is available in the following dimension: R / Rp 3/4.

2.3.2 Threaded connection

Prerequisite for a threaded connection, which seals via a thread, is a threaded pair in accordance with applicable regulations, see ↗ *Chapter 2.1 „Standards and regulations“ on page 6*. Pursuant to these regulations, a permitted threaded pair comprises a conical external thread and a cylindrical internal thread, e. g. R 3/4 and Rp 3/4.

Only use commercially available and chloride-free, DVGW approved sealant in accordance with the applicable regulations to seal threads, see ↗ *Chapter 2.1 „Standards and regulations“ on page 6*.

2.3.3 Markings on components

The model is marked as follows:

- *MOP5* for maximum operating pressure 0.5 MPa (5 bar)
- *GT1* for maximum operating pressure with HTR requirement 0.1 MPa (1 bar)
- DVGW writing
- HTR marking

2.3.4 Compatible components

Please contact the Viega Service Center for questions on this subject.

2.3.5 Technical data

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

| Use | Gas installation | Liquid gas installation |
|-----------------------|--|--|
| Operating temperature | -20° C up to +70° C | -20° C up to +70° C |
| Operating pressure | ≤ 0.5 MPa (5 bar) (MOP 5) | ≤ 0.5 MPa (5 bar) (MOP5) ¹⁾ |
| | ≤ 0.1 MPa (1 bar) (HTR / GT1) ²⁾ | ≤ 0.1 MPa (1 bar) (HTR / GT1) ²⁾ |

¹⁾ Maximum pressure – equates to the pick-up pressure of the SSV in the pressure regulating valve

²⁾ Operating pressure at HTR requirement max. 0.1 MPa (1 bar) (GT1)

In accordance with the applicable regulations, the scope of the operating temperature is between -20 °C and +60 °C, see [Chapter 2.1 „Standards and regulations“ on page 6](#).

2.4 Information for use

2.4.1 Corrosion

Depending on the area of use, corrosion protection measures may have to be taken into account.

One differentiates between external pipelines (underground and overground external pipelines), as well as internal pipelines.

For corrosion protection, comply with the applicable directives, see [Chapter 2.1 „Standards and regulations“ on page 6](#).

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

There are exceptions in the following cases:

- There is external contact with materials containing chloride.
- Stainless steel pipes must not come into contact with building materials or mortar containing chloride.
- There is contact with aggressive building materials such as materials containing nitrite or ammonium.
- in aggressive surroundings

3 Handling

3.1 Assembly information

3.1.1 Mounting instructions

Checking system components

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.

Mounting conditions

Observe the following when mounting:

- Do not cover or paint the model.
- Do not install the model in heat zones (e. g. with hot emissions or strong heat radiation).
- Use suitable tools.

Exceptions, selection criteria and the arrangement of the components are described in the applicable regulations, see ↪ *Chapter 2.1 „Standards and regulations“ on page 6.*



NOTICE!

Use active and possibly passive protection measures to protect a gas installation from tampering by unauthorised persons.

Generally use active protective measures.

Choose passive protective measures matching the installation, and use them.

The use of active and passive protection measures is specified in the applicable regulations, see ↪ *Chapter 2.1 „Standards and regulations“ on page 6.*

3.2 Assembly

3.2.1 Leakage test

The installer must perform a leakage test before commissioning.

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

Observe the applicable regulations, see ↪ *Chapter 2.1 „Standards and regulations“ on page 6.*

Document the result.

3.3 Maintenance

Gas installations must be given a visual inspection, e. g. by the owner, once a year.

Serviceability and leak tightness must be checked every twelve years by an installation contractor.

To be covered by the warranty and to ensure the safe operation of the gas installations, operate and maintain them as intended. For more detailed information, refer to the applicable regulations, see [↪ Chapter 2.1 „Standards and regulations“ on page 6.](#)

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.