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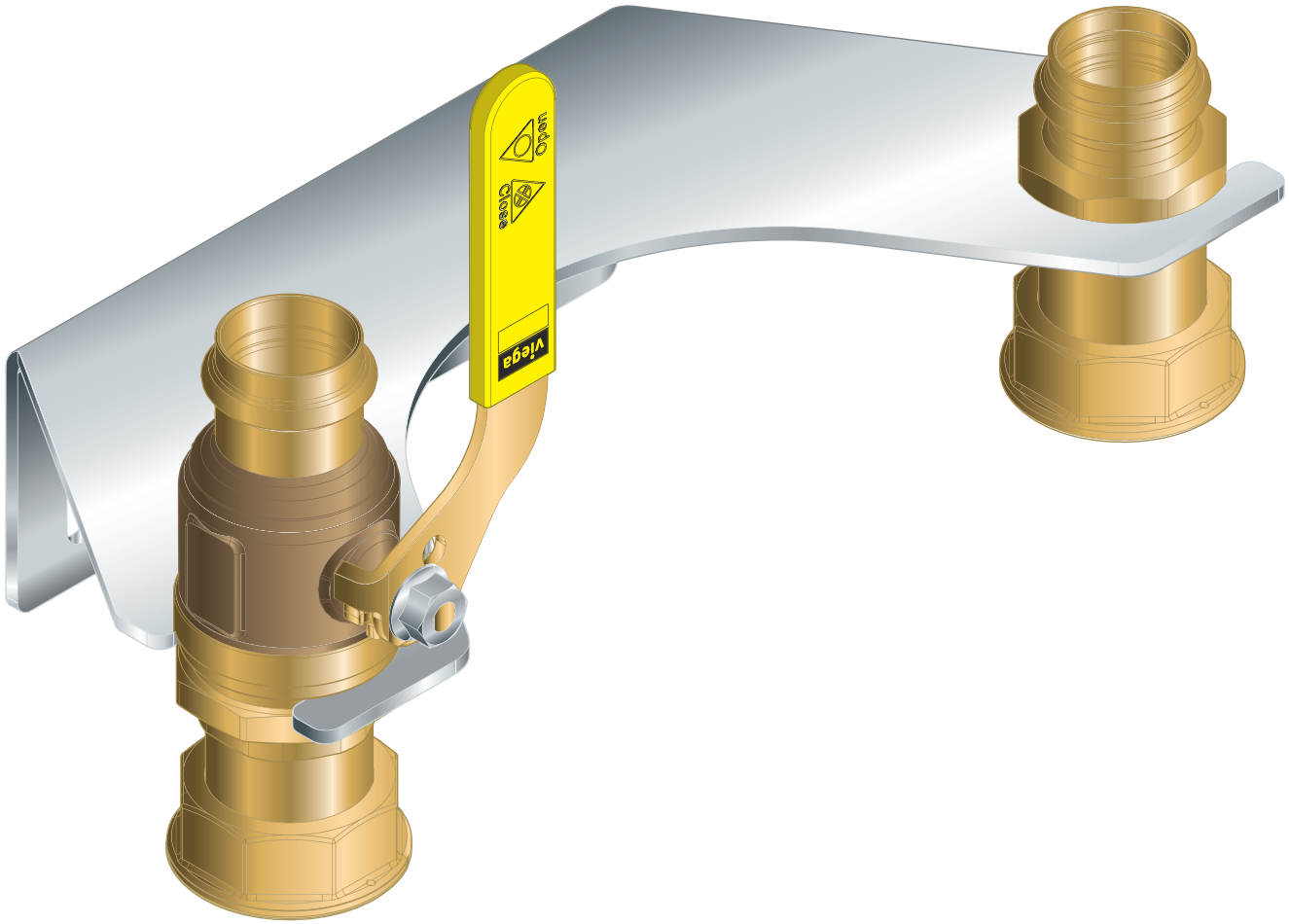
Instructions for Use

Profipress G mounting unit with SC-Contur



for double-pipe gas meters

Model	Year built (from)
2648	06/2007

viega

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1 About these instructions for use

1.1 Target groups

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

- Contract installers
- Professional companies specialising in 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.

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, execution, modification and operation of gas installations	DVGW-TRGI 2018
Planning, execution, modification and operation of liquid gas installations	DVFG-TRF 2021
Gas installations in industrial, commercial, and process engineering systems	DVGW-Arbeitsblatt G 5614
Gas installations in industrial, commercial, and process engineering systems	DVGW-Arbeitsblatt G 462
Gas installations in industrial, commercial, and process engineering systems	DVGW-Arbeitsblatt G 459-1
Gas installations in industrial, commercial, and process engineering systems	DVGW Fachinformation Nr. 10
Certification programme supplementary tests for fittings for gaseous fuels for a hydrogen content of up to 100 % by volume	DVGW CERT ZP 4110

Regulations from section: Media

Scope / Notice	Regulations applicable in Germany
Natural gas and liquid gas in gaseous state	DVGW-Arbeitsblatt G 260

Regulations from section: Overview

Scope / Notice	Regulations applicable in Germany
Requirements in gas fittings	DIN EN 331
Criteria for leak tightness	DIN 3537-1
Certification programme supplementary tests for fittings for gaseous fuels for a hydrogen content of up to 100 % by volume	DVGW CERT ZP 4110

Regulations from section: Sealing elements

Scope / Notice	Regulations applicable in Germany
Scope for the operating temperature	DIN EN 331

Regulations from section: Compatible components

Scope / Notice	Regulations applicable in Germany
Permitted pipe types	DVGW-Arbeitsblatt G 5614
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: Technical data

Scope / Notice	Regulations applicable in Germany
Operating temperature	DIN EN 331

Regulations from section: Corrosion

Scope / Notice	Regulations applicable in Germany
Corrosion protection	DIN 30672
Corrosion protection for external pipes	DVGW-TRGI 2018, Point 5.2.7.1
Corrosion protection for internal pipelines	DVGW-TRGI 2018,, Point 5.2.7.2
Corrosion protection for external pipes	DVFG-TRF 2021,, Point 7.2.7.2
Corrosion protection for internal pipelines	DVFG-TRF 2021,, Point 7.2.7.3

Regulations from section: Notes on mounting

Scope / Notice	Regulations applicable in Germany
Gas installations	DVGW-TRGI 2018
Liquid gas installations	DVFG-TRF 2021
Use of active protective measures	DVGW-TRGI 2018, Point 5.3.6.3.1
Use of passive protective measures	DVGW-TRGI 2018, Point 5.3.6.3.2

Regulations from section: Mounting the wall bracket

Scope / Notice	Regulations applicable in Germany
Information on ground and ambient conditions	DVGW-TRGI 2018, Point 5.3.7

Regulations from section: Leakage test

Scope / Notice	Regulations applicable in Germany
Leakage test for gas installations	DVGW-TRGI 2018, Point 5.6
Leakage test for liquid gas installations	DVFG-TRF 2021, Point 8.2

Regulations from section: Maintenance

Scope / Notice	Regulations applicable in Germany
Ensuring and maintaining a safe operating condition	DVGW-TRGI 2018, Point 13

2.2 Safety advice

DANGER!
Danger of explosion due to escaping gas
Smoking and open flames near gas supply lines can lead to explosions.

- Keep away from heat, hot surfaces, sparks, open flames and other types of sources of ignition.

2.3 Intended use

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

2.3.1 Areas of application

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 *'Regulations from section: Application areas' on page 5*.

Use is possible in the gas installations described below:

- 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 valve, 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 valve, 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 *'Regulations from section: Application areas' on page 5*.

2.3.2 Media

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

- Gases, see *'Regulations from section: Media' on page 5*
- Liquid gases, only in the gaseous state for domestic and commercial applications, see *'Regulations from section: Media' on page 5*.

2.4 Product description

2.4.1 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 *'Regulations from section: Overview' on page 6*:

- Leak tightness
- Higher thermal resistance (HTR)

The model is equipped as follows:

- inlet side gas ball valve with Profipress G press connection with SC-Contur, casing made of brass
- outlet side with Profipress G press connection with SC-Contur
- dual-sided gas meter screw fitting with thread G 1¼
- wall bracket with fixing set

The gas meter is screwed onto the gas meter screw fittings G 1¼.

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

The yellow protective sleeve on the actuating lever shows the medium to be gas.

The model is available in the following dimension: d28.

2.4.2 Press connection with SC-Contur

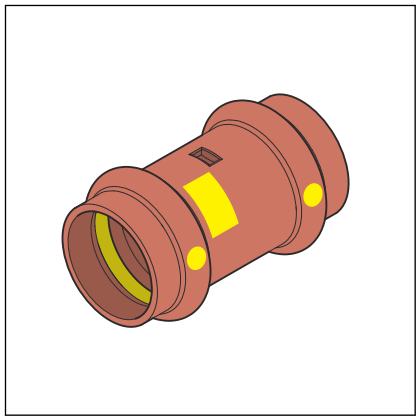


Fig. 1: Press connection using a press connector as an example

The press connection has a circumferential bead in which the sealing element lies. The press 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

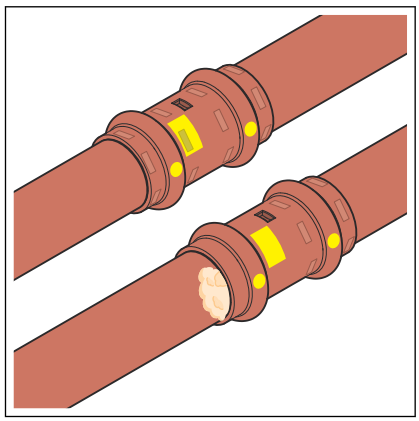


Fig. 2: SC-Contur

Viega press connectors are equipped with the SC-Contur. Die SC-Contur ist eine vom DVGW zertifizierte Sicherheitstechnik und sorgt dafür, dass die Verbindung im unverpressten Zustand undicht ist. In this way, inadvertently unpressed connections are noticed immediately during a leakage test.

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

- With dry leakage test in the pressure range from 22 hPa–0.3 MPa (22 mbar–3.0 bar)

2.4.3 Sealing elements

The gas meter screw fittings are equipped with nyhalit seals. The seals are higher thermal resistant (HTR).

The nyhalit seals may only be used once. The seals in the meter threaded connections must be exchanged when replacing a gas meter (model G2932).

The press connections are factory-fitted with yellow HNBR sealing elements.

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) ≤ 0.1 MPa (1 bar) (HTR/C1)[2)]	≤ 0.5 MPa (5 bar) (MOP 5)[1)] ≤ 0.1 MPa (1 bar) (HTR/C1)[2)]

[1)] The maximum pressure equates to the pick-up pressure of the SSV in the pressure regulating valve.

[2)] Operating pressure at HTR requirement is max. 0.1 MPa (1 bar) (C1).

In accordance with the valid regulations, the scope of the operating temperature is between -20 °C and 60 °C, see .

2.4.4 Markings on components

The model is marked as follows:

- *MOP5* for maximum operating pressure 0.5 MPa (5 bar)
- *Class C1* for maximum operating pressure with HTR requirement 0.1 MPa (1 bar)
- Flow direction indicator
- DVGW writing
- HTR marking

- Yellow dot and yellow rectangle for gas
- Position indicator

2.4.5 Compatible components

The model is compatible with the following systems:

- Profipress G
- Sanpress Inox G

Profipress G-Gasarmaturen sind mit Pressanschlüssen ausgestattet.

Die Pressanschlüsse sind nach geltenden Richtlinien mit folgenden Rohrarten geprüft und zugelassen, siehe *'Regulations from section: Compatible components' on page 6*:

- Copper pipes
- Edelstahlrohre (Werkstoff 1.4401)

Profipress G-Gasarmaturen dürfen nur bis d 28 mit dem Sanpress Inox-Edelstahlrohr (Werkstoff 1.4401) verbunden werden.

Please contact the Viega Service Center if you have any questions on this subject.

2.4.6 Technical data

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

Use	Gas installation	Liquid gas installation
Operating temperature	-20–70 °C	-20–70 °C
Operating pressure	≤ 0.5 MPa (5 bar) (MOP 5) ≤ 0.1 MPa (1 bar) (HTR/Class C1)[2)]	≤ 0.5 MPa (5 bar) (MOP5)[1)] ≤ 0.1 MPa (1 bar) (HTR/Class C1)[2)]

[1)] Maximum pressure – equates to the response pressure of the safety shut-off valve in the pressure regulating valve

[2)] Operating pressure with HTR requirement max. 0.1 MPa (1 bar) (Class C1)

In accordance with the valid regulations, the scope of the operating temperature is between -20 °C and 60 °C, see *'Regulations from section: Technical data' on page 6*.

2.5 Information for use

2.5.1 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.

Observe the pertinent guidelines for corrosion protection, see *'Regulations from section: Corrosion' on page 7*.

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, have 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:

- Observe flow direction indicator.
- Observe space required for the gas meters according to the manufacturer's information.
- 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 *'Regulations from section: Notes on mounting' on page 7*.

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 *'Regulations from section: Notes on mounting' on page 7*.

3.1.2 Required tools

The following tools are required for mounting the tapping valve:

The use of original Viega tools or equivalent tools is recommended for installation.

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

The following tools are required for production of a clamp 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 with suitable profile

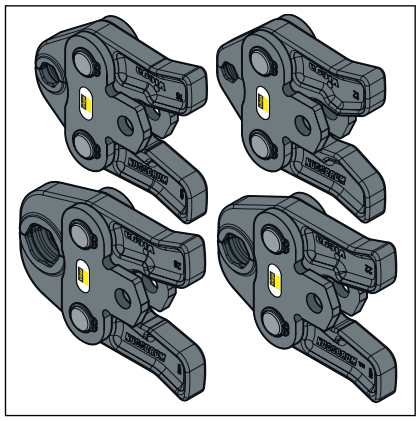


Fig. 3: Press jaws

3.2 Mounting

3.2.1 Mounting the wall bracket

Mount the wall bracket first, then the fitting.

The model is equipped with a wall bracket and the required fixing set for mounting on a solid wall.

The fixing material must be adapted to the ground and to the ambient conditions.

Information about the substrate and ambient conditions are to be found the applicable regulations, see *'Regulations from section: Mounting the wall bracket' on page 7*.

- Hold the wall bracket in the correct position and mark the drill holes on the wall.
- Drill the holes.
- Align the wall bracket horizontally and screw it on.
- Mount the fitting on the wall bracket.

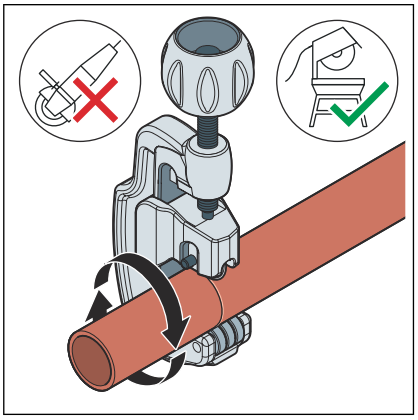
3.2.2 Cutting pipes to length

NOTICE!
Leaking press connections due to pipes being too short!

If two press connectors are to be mounted onto a pipe at a short distance apart, 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.

For that reason, the length of the pipe must correspond exactly with the total insertion depth of both press connectors.

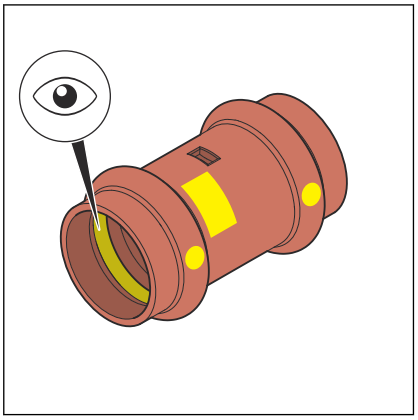
For information about tools, also see *Chapter 3.1.2 'Required tools' on page 15*.



- Cut the pipe at a right angle as accurately as possible using a pipe cutter or a fine-toothed hacksaw to ensure correct and even pipe insertion depth.

  Avoid grooves on the pipe surface.

3.2.3 Pressing the connection



Requirements:

- The pipe end is not bent or damaged.
- The pipe is clean.
- The pipe is deburred.
- The correct sealing element is in the press connector.
  HNBR = yellow
- Sealing element, separator ring and cutting ring are undamaged.
- The sealing element is undamaged.
- Sealing element and cutting ring are undamaged.
- The complete sealing element, separator ring and cutting ring are in the bead.

- The complete sealing element and cutting ring are in the bead.
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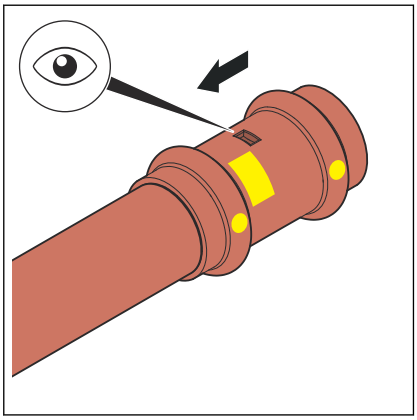
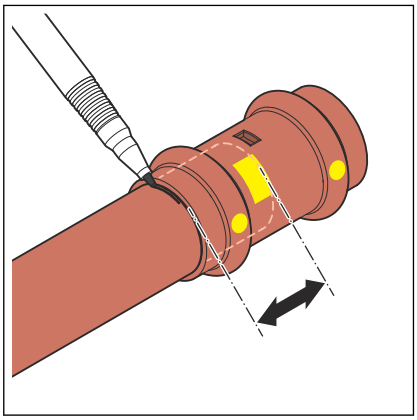
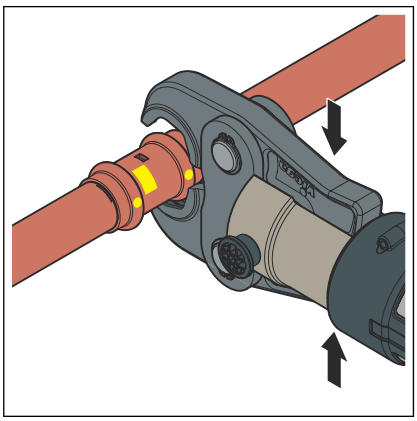


- Push the press connector onto the pipe as far as it will go.

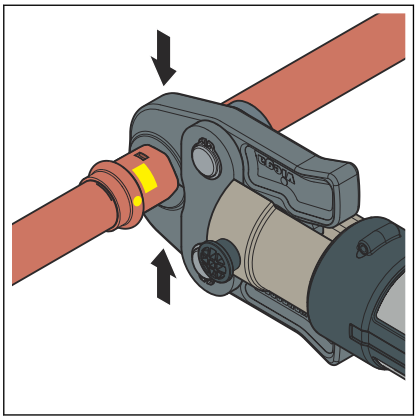


- Mark the insertion depth, and check it by fully removing and refitting the press connector.
- Place the press jaw onto the press machine and push the retaining bolt in until it clicks into place.

INFO! Observe the press tool instruction manual.



- Open the press jaw and place it at a right-angle onto the press 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 Leakage test

The installer must perform a leakage test before commissioning.

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

Comply with the general rules of engineering and the applicable directives, see *Chapter 2.1 'Standards and regulations' on page 5*.

Document the result.

By employing a gas meter connecting piece (y-adaptor model G2326), you can test the gas installation upstream and downstream of the mounting unit without mounted gas meters.

3.3 Maintenance

The gas installation 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 *'Regulations from section: Maintenance' on page 8*.

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.

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