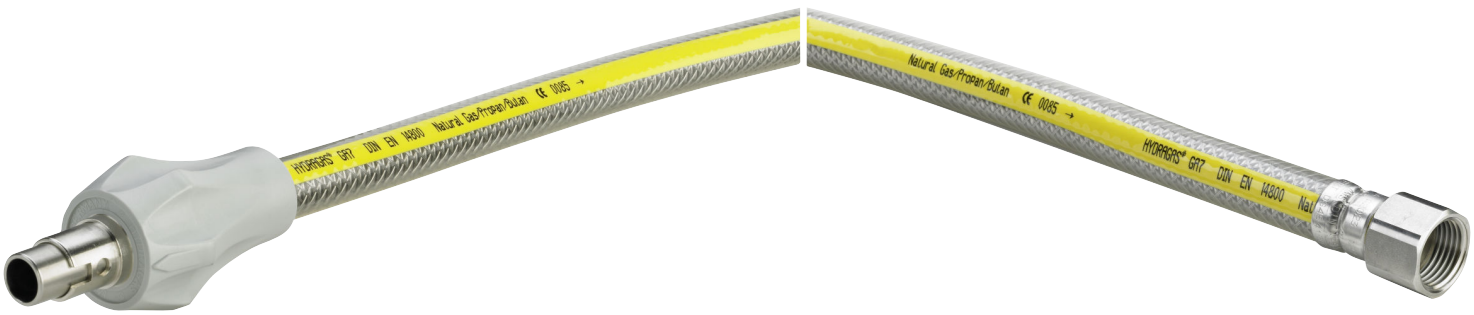
## Gas plug-in hose, straight-through form

# Instructions for Use




**suitable for gas socket model G2019T, G2016T**

**Model**
G2023

**Year built:**
from 01/1990

**en_INT**

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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 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 |
| | DIN 3383-1 | Connection with all gas sockets |
| | DIN EN 15069 | Connection with all gas sockets |
| **Media** | | |
| | DVGW Worksheet G 260 | Gas quality |
| **Overview** | | |
| | DIN 3383-1 | Gas socket |
| | DIN EN 14800 | Gas plug-in hose |
| **Threaded connection** | | |
| | DIN EN 10226-1 | Threaded pair |
| | DIN 30660 | Permitted sealants |
| | DIN EN 751-2 | Permitted sealants |
| **Corrosion** | | |
| | DIN 30672 | |
| | DVGW-TRGI 2008, Point 5.2.7.1 | Outer pipes |
| | DVFG-TRF 2012, Point 7.2.7.1 | Outer pipes |
| **Mounting instructions** | | |
| | DVGW-TRGI 2008 | Exceptions, selection criteria, and arrangement of the components |
| | DVFG-TRF 2012 | Exceptions, selection criteria, and arrangement of the components |

**Connecting gas plug-in hose**

| | |
|---|---|
| DIN EN 377 | Fitting grease |

**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

The gas plug-in hose is intended and certified for the following uses:

- for the flexible connection of fixed gas devices
- for gas devices with electrical connection
- for connection with all gas sockets pursuant to applicable regulations, see *Chapter 2.1 „Standards and regulations“ on page 6*
- up to maximum 2.0 mlong in domestic installations (CE certification up to 2.0 m in length)
- outside up to a length of 6.0 m (no CE certification)

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*.

### 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

*The model has a CE approval pursuant to the applicable regulations, see Chapter 2.1 „Standards and regulations“ on page 6.*

The model is equipped as follows:

- inlet side with standard plug
  pursuant to applicable regulations, see *Chapter 2.1 „Standards and regulations“ on page 6*
- outlet side with Rp internal thread
- corrugated hose made of stainless steel inside
- stainless steel mesh with plastic coating on the outside
- hose socket made of plastic (PPO)

The model is available in the dimension Rp ½ in the following lengths:
L 500 / 750 / 1000 / 1250 / 1500 / 2000 / 2500 / 3000.

### 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 ¾ and Rp ¾.

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*.

*Establish the threaded connection first and the plugged connection next.*

### 2.3.3 Markings on components

The model is marked as follows:

- Flow direction indicator
- DVGW writing and certificate number
- Writing DIN EN 14800 / CE 0085
- HTR marking
- Class AMS – classification in acc. DIN 3383-1
- yellow strip for gas

### 2.3.4 Compatible components

The model is compatible with the gas socket model G2016T and G2019T.

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:

| | |
|---|---|
| **Operating temperature** | -20° C up to +70° C |
| **Operating pressure** | ≤ 0.01 MPa (0.1 bar) |

## 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.

For corrosion protection, comply with the applicable directives, see *Chapter 2.1 „Standards and regulations“ on page 6*.

- *Do not use the model in aggressive surroundings.*
- *Avoid contact with aggressive building materials such as materials containing nitrite or ammonium.*

# 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:

- Observe flow direction indicator.
- Do not install the model in heat zones (e. g. with hot emissions or strong heat radiation.
- Use suitable tools.
- Do not tension.
- Avoid heavy bending (bending radius at least 40 mm).

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*.

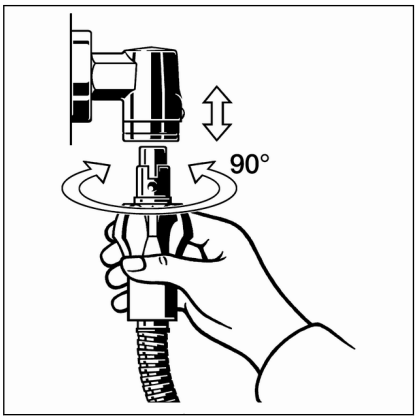
## 3.2 Assembly

### 3.2.1 Connecting the gas plug-in hose

*When mounting, also observe the instructions for use of the relevant gas socket.*

Produce the threaded connection first then the plug connection.

*If the plug is difficult to connect, lubricate the plug with tap grease in acc. with the applicable directives, see Chapter 2.1 „Standards and regulations“ on page 6.*




- Push the plug as far as it will go into the gas socket.

  The markings on the gas socket and the plug must match.
- Turn the plug anti-clockwise by 90°.

  The connection is secured in this way.

### 3.2.2 Leakage test

The installer must perform a leakage test (load and leakage test) on the gas installation before commissioning.

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

*The gas plug-in hose must not be included in the leakage test.*

*The connection must be checked for leaks by suitable means after the gas has been filled.*

Document the result.

## 3.3 Maintenance

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

Particular attention should be paid to damage, e. g. kinks or corrosion.

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.