

# Viega Gas Pressure Spring

## Instructions for Use



only in connection with Viega Eco Plus WC element model

8161.22,

for ceramic up to 28 kg

**Model**

8174.1

**Year built:**

from 07/2013

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](http://www.viega.com/legal-notices).

## 1.1 Target groups

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

- 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 approved 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.

	<b>DANGER!</b> This symbol warns against possible life-threatening injury.
	<b>WARNING!</b> This symbol warns against possible serious injury.
	<b>CAUTION!</b> This symbol warns against possible injury.
	<b>NOTICE!</b> This symbol warns against possible damage to property.
	<i>Notes give you additional helpful tips.</i>

## 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 Intended use

#### 2.1.1 Areas of use

The gas pressure spring is exclusively suitable for the height-adjustable Viega Eco Plus WC element (model 8161.22). The gas pressure spring is used to lift and lower WC ceramic up to 28 kg.

# 3 Handling

## 3.1 Assembly information

### 3.1.1 Required tools

The following tools are required for mounting:

- fork or ring spanner: 17 mm / 19 mm
- socket wrench: 17 mm
- Allen key: 5 mm
- Phillips-tip screwdriver
- slotted screwdriver
- silicone press
- For disposal preparation: drill with 2 or 3 mm drill bit

## 3.2 Assembly

### 3.2.1 Replace gas pressure spring

The model replaces the built-in gas pressure spring in the case of a defect.

**NOTICE!**  
**Damage to the cover plate!**

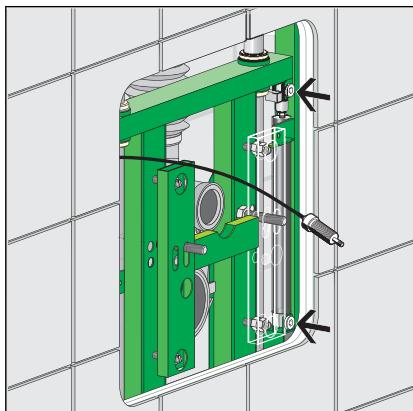
If the upper edge of the finished floor is higher than planned, there is a risk that the cover plate will touch. To avoid touching, limit the lowering of the WC (possible up to a max. of 20 mm):

- Place a maximum of five 4 mm spacer washers (included in scope of delivery) under the piston rod of the gas pressure spring.

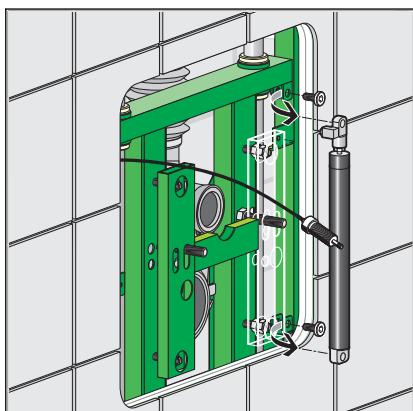
Requirements:

- WC ceramic is at the lowest position
- Following components are removed (see instructions for use of the cover plate 8356.8):
  - WC ceramic
  - cover plate
  - actuating button / hydraulic actuation
  - cover frame

Proceed as follows:



- Remove gas pressure spring by lowering the top and bottom 5 mm Allen screw.



**NOTICE!** If necessary, place a maximum of five 4 mm spacer washers (included in scope of delivery) under the piston rod of the gas pressure spring, *Further information on page 7*.

- Insert new gas pressure spring and attach with Allen screws.

Re-mount all components:

- cover frame
- actuating button / hydraulic actuation
- cover plate
- WC ceramic

### 3.2.2 Preparing gas pressure spring for disposal



#### WARNING!

#### Risk of injury due to high pressure

The gas pressure is highly pressurised. There is a risk of injury due to flying metal fragments and oil, if disposal is not carried out properly. Observe following safety measures implicitly for proper draining.

Before disassembling:

- No person in the extended axis of the device. The piston rod cannot hit anyone in the case of an error.
- Do not remove the ends.
- Under no circumstances use a lathe.
- Put on eye / face and clothing protection.

In case of doubt, please contact your Viega Service Center.

***The gas itself is harmless.***



## Draining gas and oil

The container needs to be drilled at two points to enable the disposal of the gas pressure spring without pressure and without oil. The drilling points X1 and X2 vary depending on the diameter of piston rod and cylinder.

Diameter (mm) piston rod / cylinder	X1 (mm)	X2 (mm)
8/19; 8/22; 10/22	20	30
8/28; 10/28; 14/28	40	35
10/40; 14/40	40	55

- ▶ Open up gas pressure spring.

**DANGER! Protect eyes, face and body and cover drill hole before drilling.**

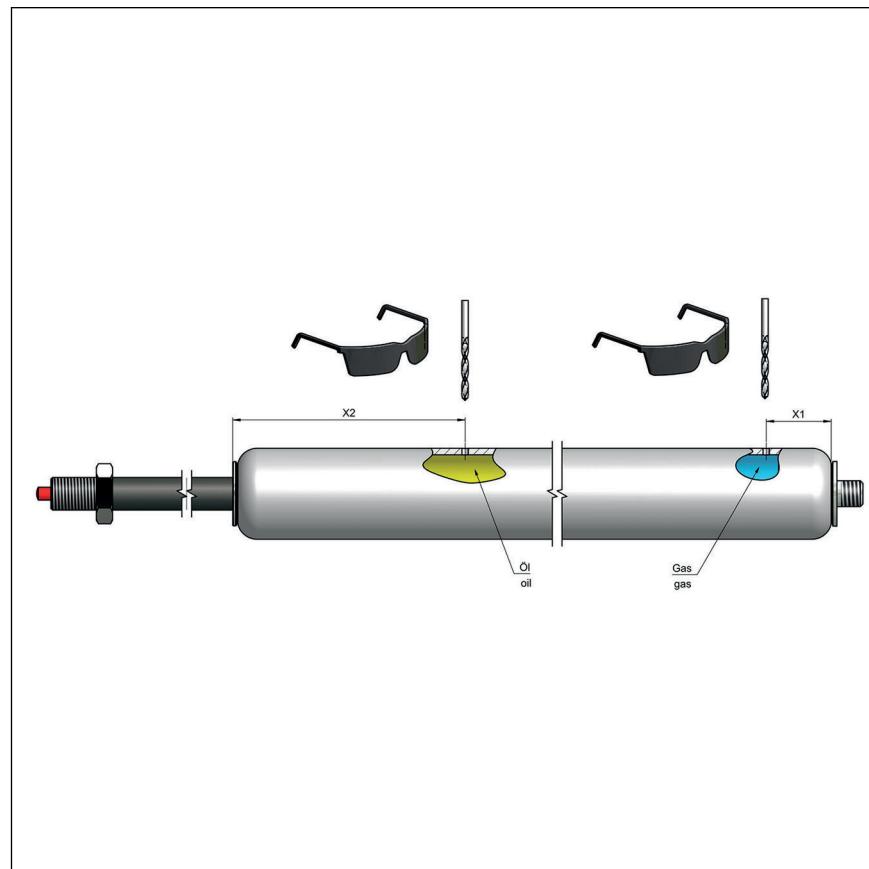


Fig. 1: draining gas and oil

- ▶ Using a 2–3 mm drill, drill slowly at point X1 until gas escapes.
  - ⇒ Due to the high internal pressure, metal fragments and oil can squirt out.
- ▶ Using a 2–3 mm drill, drill slowly at point X2 until pressure drops and oil becomes accessible.
- ▶ Pour out the oil into a suitable container.

- ⇒ Now, the piston rod can be easily moved by hand. If not, repeat procedure.
- Saw through the metal cylinder, if necessary.
  - ⇒ Disposal of the individual components can now take place.

### 3.3 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.