34429700







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Solenoid valve VGP	
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Safety

Please read and keep in a safe place

Please read through these instructions carefully before installing or operating. Following the installation, pass the instructions on to the operator. This unit must be installed and commissioned in accordance with the regulations and standards in force. These instructions can also be found at www.docuthek.com.

Explanation of symbols

•, 1, 2, 3 ... = Action = Instruction

Liability

We will not be held liable for damage resulting from non-observance of the instructions and non-compliant use.

Safety instructions

Information that is relevant for safety is indicated in the instructions as follows:

⚠ DANGER

Indicates potentially fatal situations.

⚠ WARNING

Indicates possible danger to life and limb.

CAUTION

Indicates possible material damage.

All interventions may only be carried out by qualified gas technicians. Electrical interventions may only be carried out by qualified electricians.

Conversion, spare parts

All technical changes are prohibited. Only use OEM spare parts.

Changes to edition 05.11

The following chapters have been changed:

- Installation
- Certification

Checking the usage

Intended use

VGP

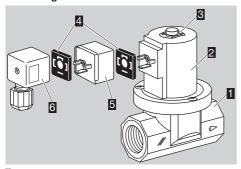
Gas solenoid valve for safeguarding gas or air on various appliances.

This function is only guaranteed when used within the specified limits – see page 7 (Technical data). Any other use is considered as non-compliant.

Type code

Code	Description
VGP	Gas solenoid valve
10-25	Nominal size
R	Rp internal thread
01	p _{e max.} 150 mbar
02	p _{e max} 200 mbar
Q	Mains voltage: 120 V AC, 50/60 Hz
W	Mains voltage: 230 V AC, 50/60 Hz
5	Connection via rectifier adapter
	without standard socket
6	Connection via rectifier adapter
	and standard socket

Part designations



- 1 Housing
- Actuator
- Quick fastener
- Seals
- 5 Rectifier adapter
- Socket

Type label

Rated voltage, electrical power consumption, installation position, max. inlet pressure p_{e max.}, ambient temperature, enclosure and medium: see type label.

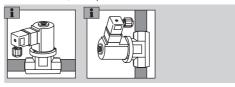


Installation

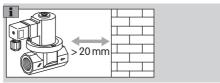
! CAUTION

Please observe the following to ensure that the VGP is not damaged during installation and operation:

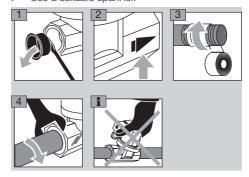
- Do not clamp the unit in a vice. Only secure the flange by holding the octagon with a suitable spanner. Risk of external leakage.
- Continuous operation at high temperatures accelerates the ageing of elastomer materials.
- Do not install or store the unit in the open air.
- Dropping the device can cause permanent damage. In this event, replace the entire device and associated modules before use.
- Check max. ambient temperature see type label.
- Check max. inlet pressure see type label.
- Installation position: black solenoid actuator in the vertical upright position or tilted up to the horizontal, not upside down.



The housing must not be in contact with masonry. Minimum clearance 20 mm.



- Sealing material and dirt, e.g. thread cuttings, must not be allowed to get into the valve housing.
- ▷ Install a filter upstream of every system.
- Use a suitable spanner.





(B)

Wiring

⚠ WARNING

Electric shocks can be fatal! Before working on possible live components, ensure the unit is disconnected from the power supply.

The solenoid actuator heats up during operation depending on ambient temperature and voltage.



- > The rectifier adapter must be installed.
- Use temperature-resistant cable (> 80°C).
- 1 Disconnect the system from the electrical power supply.
- 2 Shut off the gas supply.
- The actuator can be rotated.



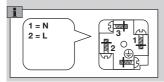












▶ Plug insert can be rotated in 90° steps.







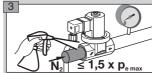


Tightness test

! CAUTION

Please observe the following to ensure that the VGP is not damaged during the tightness test:

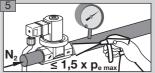
- Check max. inlet pressure see type label.
- Test pressure ≤ 1.5 x max. inlet pressure.
- 1 Close the solenoid valve.
- To be able to check the tightness, shut off the downstream pipeline as close as possible to the valve.







4 Open the solenoid valve.





- 6 Tightness OK: the unit is ready for operation.
- 7 Open the pipeline again and release the gas supply.
- VGP leaking: dismantle the unit and return it to the manufacturer.

Replacing the actuator

- We recommend replacing the entire actuator set when replacing the actuator.
- Actuator set VGP 10-15 comprises the actuator, 1 x O-ring, 1 x seal and 1 x quick fastener.
- ➤ Actuator set VGP 20-25 comprises the actuator and 2 x O-rings.
- The actuator set is available separately as a spare part.

VGP

- Disconnect the system from the electrical power supply
- 2 Shut off the gas supply.







VGP 10-15







Do not remove the grounding spring A.







VGP 20-25













VGP







- 14 The unit is ready for operation.
- 15 Release the gas supply.

Maintenance

In order to ensure smooth operation: check the tightness and function of the VGP every year, or every six months if operated with biogas.

Checking tightness and function

- ▷ In order to determine whether the VGP is tight and closes securely, check the internal and external tightness, see page 3 (Tightness test).
- Check electrical installations in line with local regulations; pay particular attention to the PE wire, see page 3 (Wiring).
- ▶ We recommend replacing the entire seal set when servicing the solenoid valve.
- Seal set VGP 10-15 comprises the valve seal, 2 x
 O-rings, 1 x seal and 1 x quick fastener.
- Seal set VGP 20-25 comprises the valve seal and 3 x O-rings.
- → The seal set is available separately as a spare part.

VGP

- 1 Disconnect the system from the electrical power supply.
- 2 Shut off the gas supply.

VGP 10-15







Do not remove the grounding spring A.







- Check closing spring for damage.
- Closing spring damaged: dismantle the unit and return it to the manufacturer.



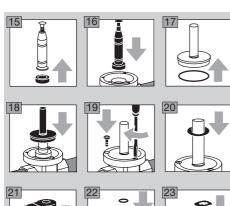










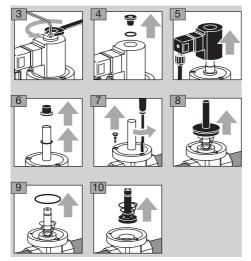




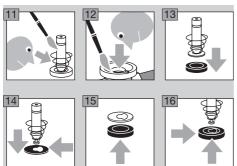




VGP 20-25



- Closing spring damaged: dismantle the unit and return it to the manufacturer.



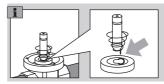


! CAUTION

Please observe the following to ensure that the VGP is not damaged during subsequent operation:

Install the closing spring in the correct position.

Install the closing spring in the correct position.
 Ensure that the catch of the closing spring is positioned in the opening of the valve disc.













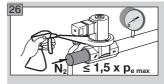




VGP

24 Close the solenoid valve.

25 To be able to check the tightness, shut off the downstream pipeline as close as possible to the valve.







Assistance in the event of malfunction

⚠ WARNING

Electric shocks can be fatal! Before working on possible live components, ensure the unit is disconnected from the power supply.

Fault-clearance must only be undertaken by authorized trained personnel.

Unauthorized repairs or incorrect electrical connections can cause the solenoid valve to become defective. In this case, our warranty will be rendered void.

- ? Fault
- ! Cause
- Remedy

Possible faults and suggested solutions

- The solenoid valve does not open, there is no flow downstream of the solenoid valve.
- ! There is no power supply.
- Check wiring, see page 3 (Wiring).
- ! Rectifier adapter defective.
- Remove socket and rectifier adapter, see page 4 (Replacing the actuator), steps 1 to 5. Check the ohmic resistance of the rectifier adapter between contacts 1 and 2. Note the inscription on the rectifier adapter.



- No resistance, replace adapter.
- The rectifier adapter is available separately as a spare part.
- ! Actuator defective.
- Remove socket and rectifier adapter, see page 4 (Replacing the actuator), steps 1 to 5. Check the ohmic resistance of the actuator between contacts 1 (N) and 2 (L). Read off the contact assignment from the rectifier adapter.



- No resistance, change actuator, see page 4 (Replacing the actuator).
- The actuator set is available separately as a spare part.

! Guiding elements bent. Incorrect handling when installing the unit.



- Dismantle the unit and return it to the manufacturer.
- The solenoid valve does not close securely, the flow downstream of the solenoid valve does not stop.
- ! Valve seat is dirty.
- Clean the valve seat, see page 4 (Maintenance).
- Install a filter upstream of the solenoid valve.
- ! Valve seat is damaged.
- Dismantle the unit and return it to the manufacturer.
- I Valve seal is damaged or hardened.
- Replace the valve seal, see page 4 (Maintenance).
- I Guiding elements bent. Incorrect handling when installing the unit.



 Dismantle the unit and return it to the manufacturer.

Technical data

Gas types: natural gas, town gas, LPG (gaseous), biogas (max. 0.1 %-by-vol. H₂S) or clean air; other gases on request. The gas must be dry in all temperature conditions and must not contain condensate.

Opening time: 0.5 s. Closing time: < 1 s.

Ambient temperature: -20 to +60°C.

Long-term use in the upper ambient temperature range accelerates the ageing of the elastomer materials and reduces the service life (please contact manufacturer).

Storage temperature: -20 to +40°C.

Safety valve:

Class A, Group 2 pursuant to EN 161.

Mains voltage:

230 V AC, +10/-15%, 50/60 Hz, 120 V AC, +10/-15%, 50/60 Hz.

Electrical connection:

plug with socket to EN 175301-803.

Power consumption:

Туре	120/230 V AC [W]
VGP 10	26
VGP 15	26
VGP 20	35
VGP 25	35

Enclosure: IP 54. Duty cycle: 100%.

Power factor of the solenoid coil: $\cos \varphi = 1$. Solenoid coil insulation: class F insulating material.

Switching frequency: any. Valve housing: aluminium, valve disc: Perbunan.

Internal thread: Rp to ISO 7-1.

Designed lifetime

This information on the designed lifetime is based on using the product in accordance with these operating instructions. Once the designed lifetime has been reached, safety-relevant products must be replaced. Designed lifetime (based on date of manufacture) in accordance with EN 161 for VGP:

	Designed lifetime		
Type	Switching	Time	
	cycles	[years]	
VGP 10 to 15	200,000	10	
VGP 20 to 25	500,000	10	

You can find further explanations in the applicable 🗒 rules and regulations and on the afecor website (www.afecor.org).

This procedure applies to heating systems. For thermoprocessing equipment, observe local regulations.

Logistics

Transport

Protect the unit from external forces (blows, shocks, vibration). On receipt of the product, check that the delivery is complete, see page 2 (Part designations). Report any transport damage immediately.

Store the product in a dry and clean place. Storage temperature: see page 7 (Technical data). Storage time: 6 months in the original packaging before using for the first time. If stored for longer than this, the overall service life will be reduced by the corresponding amount of extra storage time.

Packaging

The packaging material is to be disposed of in accordance with local regulations.

Disposal

Components are to be disposed

Certification

Declaration of conformity



We, the manufacturer, hereby declare that the product VGP, marked with product ID No. CE-0063BL1554, complies with the requirements of the listed Directives and Standards.

Directives:

- 2009/142/EC GAD (valid until 20 April 2018)
- 2014/30/EU
- 2014/35/EU

Regulation:

(EU) 2016/426 – GAR (valid from 21 April 2018)
 The relevant product corresponds to the tested type sample.

The production is subject to the surveillance procedure pursuant to Directive 2009/142/EC Annex II paragraph 3 (valid until 20 April 2018) and to Regulation (EU) 2016/426 Annex III paragraph 3 (valid from 21 April 2018).

Elster GmbH

Scan of the Declaration of conformity (D, GB) – see www.docuthek.com

Approval for Australia



Australian Gas Association, Approval No.: 5567 www.aga.asn.au/product_directory

Eurasian Customs Union



The product VGP meets the technical specifications of the Eurasian Customs Union.

Contact

If you have any technical questions, please contact your local branch office/agent. The addresses are available on the Internet or from Elster GmbH.

We reserve the right to make technical modifications in the interests of progress.

Honeywell



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