

Gas filters GFK

OPERATING INSTRUCTIONS

Cert. Version 10.17 · Edition 05.19 · EN · 34410012

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, a, b, c = 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 06.14

The following chapters have been changed:

- Installation
- Maintenance
- Certification
- Filter pads



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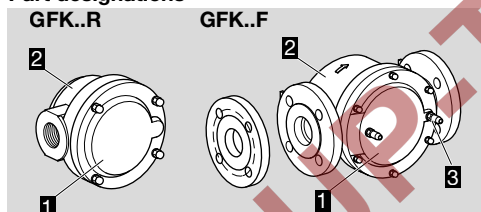
CHECKING THE USAGE

Gas filter GFK is used for filtration of the fuel gas and combustion air supply to all gas consuming appliances. This function is only guaranteed when used within the specified limits – see page 3 (Technical data). Any other use is considered as non-compliant.

Type code

GFK	Gas filter
15–250	Nominal size
T	T-product
R	Rp internal thread
F	Flanged connection to ISO 7005
N	NPT internal thread
A	ANSI flange
	Max. inlet pressure $p_{u \text{ max}}$
10	1 bar
40	4 bar (58 psig)
60	6 bar
-3	Screw plug at the inlet and outlet
-6	Pressure test point at the inlet and outlet

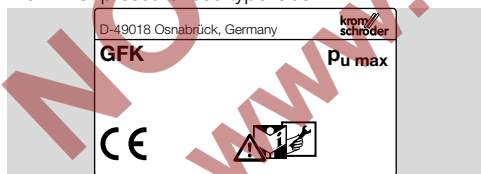
Part designations



- 1 Housing cover
- 2 Lower housing section
- 3 Pressure test point

Type label

Max. inlet pressure: see type label.



INSTALLATION

CAUTION

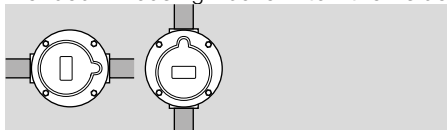
Incorrect installation

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

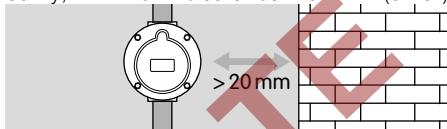
- Dropping the device can cause permanent damage. In this event, replace the entire device and associated modules before use.

→ Installation position: as required, in horizontal or vertical pipework – recom-

mended: housing cover to the side.

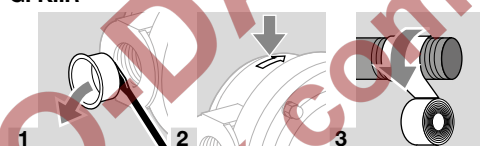


→ The housing must not be in contact with masonry, minimum clearance 20 mm (0.79").

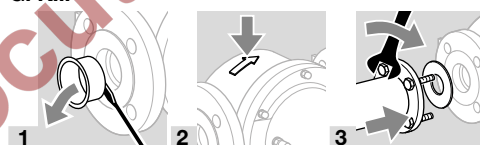


→ We recommend applying a protective coating when installing in the open air.

GFK..R

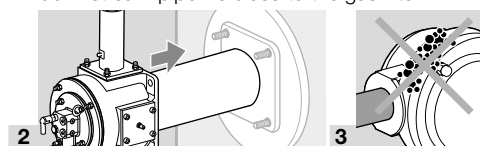


GFK..F



TIGHTNESS TEST

1 To be able to check the tightness, shut off the downstream pipeline close to the gas filter.



4 Tightness OK: open the pipeline.

→ Pipeline leaking: replace the seal.

MAINTENANCE

CAUTION

In order to ensure smooth operation:

- clean or replace the filter pad of the GFK every year, or every six months if operated with biogas.
- When cleaning or replacing the filter pad, no dirt may contaminate the clean gas circuit.

→ The filter pad should be changed at a pressure gradient ≥ 20 mbar (8 "WC).

Pressure test points on the cover:

GFK 15 to 100:

inlet side: Rp 1/8 pressure test nipple,

outlet side: Rp 1/8 pressure test nipple.

GFK 125 to 250:

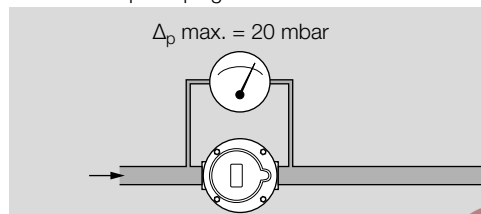
inlet side: Rp 1/8 plug,

outlet side: Rp 1/8 plug.

GFK 15T to 100T:

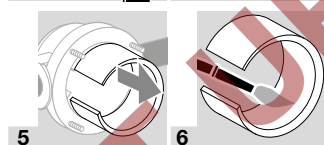
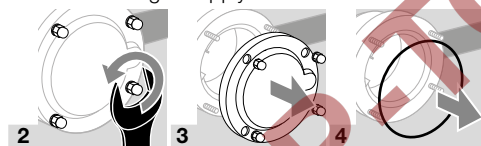
inlet side: Rp 1/8 plug,

outlet side: Rp 1/8 plug.

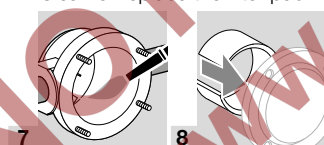


Cleaning or replacing the filter pad

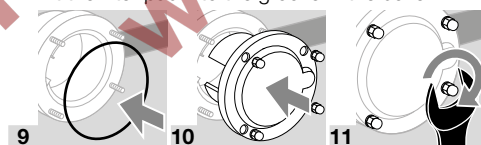
1 Shut off the gas supply.



→ Clean or replace the filter pad.



→ Fit the filter pad into the groove in the cover.



→ Tighten screws in a crosswise fashion and pay attention to the torque, see table:

Type	Torque [Nm]
GFK 15	5
GFK 20	5
GFK 25	8
GFK 32	8
GFK 40	8
GFK 50	8

Type	Torque [Nm]
GFK 65	8
GFK 80	20
GFK 100	20
GFK 125	60
GFK 150	60
GFK 200	80
GFK 250	80

→ When replacing the filter pad, the gas-filled space in the GFK is opened. Therefore, check for tightness once the filter pad has been reinstalled, see page 2 (Tightness test).

TECHNICAL DATA

Gas type: natural gas, town gas, LPG (gaseous), biogas and air.

Max. inlet pressure p_{i1} :

GFK 15 to 250: 1 bar,

GFK 15R to 65R, GFK 15TN to 100TN: 4 bar (60 psig),

GFK 40F to 100F: 6 bar.

Ambient temperature: -15 to +80°C (5 to 176°F).

Continuous operation at high temperatures accelerates the ageing of elastomer materials.

Version to DIN 3386

Housing

GFK 15 to 100 made from AlSi.

GFK 125 to 250 made from sheet steel.

GFK..R: Rp internal thread connection to ISO 7-1.

GFK..F: flanged connection to ISO 7005, PN 16.

GFK..N: NPT internal thread.

GFK..A: ANSI 150 flanged connection.

Filter pad: polypropylene fleece (standard 50 µm).

Pressure test points on the cover

GFK 15 to 100:

inlet side: Rp 1/8 pressure test nipple,

outlet side: Rp 1/8 pressure test nipple.

GFK 125 to 250:

inlet side: Rp 1/8 plug,

outlet side: Rp 1/8 plug.

GFK 15T to 100T:

inlet side: Rp 1/8 plug,

outlet side: Rp 1/8 plug.

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 13611 for GFK: 10 years. 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).

Transport temperature: see page 3 (Technical data).

Transport is subject to the ambient conditions described.

Report any transport damage on the unit or packaging without delay.

Check that the delivery is complete.

Storage

Storage temperature: see page 3 (Technical data).

Storage is subject to the ambient conditions described.

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 of separately in accordance with local regulations.

CERTIFICATION

Declaration of conformity



We, the manufacturer, hereby declare that the product GFK with product ID No. 0063AU1408 complies with the requirements of the listed Directives and Standards.

Directives:

- 2014/68/EU – PED

Regulation:

- (EU) 2016/426 – GAR

The relevant product corresponds to the tested type sample.

The production is subject to the surveillance procedure pursuant to Regulation (EU) 2016/426 Annex III paragraph 3.

FOR MORE INFORMATION

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Eclipse, Exothermics, Hauck, Kromschroder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

Elster GmbH
Strotheweg 1, D-49504 Lotte
T +49 541 1214-0
hts.lotte@honeywell.com
www.kromschroeder.com

Global centralized service deployment coordination:
T +49 541 1214-365 or -555
hts.service.germany@honeywell.com

Elster GmbH

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

FILTER PADS

Filter pads with a separation rate of 50 µm can be found at www.partdetective.de

Filter pads with special separation rate of 10 µm for GFK 15 – 100 on request.

Honeywell
kromschroder

Translation from the German
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