34410012



Operating instructions **Gas filters GFK**



Cert. version 12.10

Contents
Gas filters GFK
Contents
Safety
Type code
Part designations
Type label
Installation
Tightness test
Maintenance
Cleaning or replacing the filter pad
Technical data
Logistics
Certification
Declaration of conformity
Contact

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 12.10

The following chapters have been changed:

Fully revised version

Checking the usage

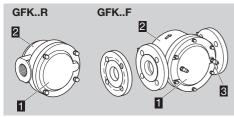
Gas filter GFK is used for filtration of the fuel gas and combustion air supply to all gas consuming appliances.

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

Code	Description
GFK	Gas filter
15-250	Nominal size
T	T-product
R	Rp internal thread
F	Flanged connection to ISO 7005
N	NPT internal thread
Α	ANSI flange
	Max. inlet pressure p _{u max}
10	1 bar (14.5 psig)
40	4 bar (58 psig)
60	6 bar (87 psig)
-3	Screw plug at the inlet
	and outlet
-6	Pressure test point at the inlet
	and outlet

Part designations



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

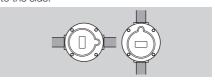
Type label

Max. inlet pressure: see type label.

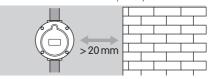


Installation

Installation position: any, in horizontal or vertical pipework – recommended: housing cover to the side.

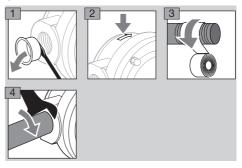


➤ The housing must not be in contact with masonry, minimum distance 20 mm (0.79").

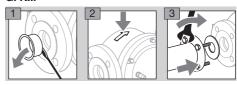


We recommend applying a protective coating when installing in the open air.

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

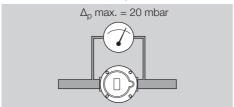
In order to ensure smooth operation: clean or replace the filter pad of the GFK every year, or every six months if operated with biologically produced methane.

- 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.

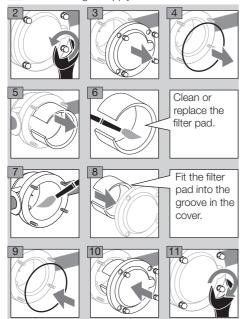
GFK 125 to 250: Inlet side: Rp 1/8 plug, Outlet side: Rp 1/8 plug.

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.

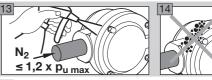


Tighten screws in a crosswise fashion and pay attention to the torque, see table:

according to the torque, ood table.		
Туре	Torque [Nm]	
GFK 15	5	
GFK 20	5	
GFK 25	8	
GFK 32	8	
GFK 40	8	
GFK 50	8	
GFK 65	8	
GFK 80	20	
GFK 100	20	
GFK 125	60	
GFK 150	60	
GFK 200	80	
GFK 250	80	

Checking tightness and function

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



15 Tightness OK: open the pipeline.

Technical data

Gas type: natural gas, town gas, LPG (gaseous), biologically produced methane and air.

Max. inlet pressure pu max:

GFK 15 to 250: 1 bar (14.5 psig), GFK 15R to 65R: 4 bar (60 psig),

GFK 15TN to 100TN: 4 bar (60 psig).

GFK 40F to 100F: 6 bar (87 psig).

Storage temperature: -15 to +60°C (5 to 140°F). Ambient temperature: -15 to +80°C (5 to 176°F).

Continuous operation at high temperatures ac-

celerates the ageing of elastomer materials.

Version to DIN 3386. Housing material:

GFK 15 to 100: AISi.

GFK 125 to 250; sheet steel.

Connection:

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).

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.

Storage

Store the product in a dry and clean place.

Storage temperature: see page 3 (Technical data). Storage time: 6 months 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, marked with product ID No. 0063AU1408, complies with the essential requirements of the following Directives and Standards:

Directives:

- 2009/142/FC
- 97/23/EC

Standards:

EN 13611

The relevant product corresponds to the type tested by the notified body 0063.

The production is subject to the surveillance procedure pursuant to Directive 2009/142/EC according to annex II, paragraph 3.

Elster GmbH

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

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.



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