Gas and air filter

GF / 3
DN 40 - DN 100
GF
DN 125 - DN 200

DUNGS®

2.03

Technical description
Filter for interior gas lines as per DIN 3386 with high dust storage capacity.

Flange connection as per DIN 2501 Part 1 to fit preweld flange as per DIN 2633 corresponding to ISO 7005-1 (PN 16), ISO 7005-2 (PN 16).

Maximum recommended pressure difference:
10 mbar

Installation option for pressure measurement point for filter monitoring.

Application
GF/3 and GF gas and air filter to protect downstream fittings. Filter suitable for gases of families 1, 2, 3 and other neutral gaseous media.

Approvals
EU type test approval as per EU Gas Appliance Directive.

GF 4.../3	CE-0085 AQ 0122
GF 4...	CE-0085 AQ 0123

Approvals in other important gas-consuming countries.

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Specifications

Nominal flange size	DN 40 DN 50 DN 65 DN 80 DN 100 DN 125 DN 150 DN 200 Flange connection as per DIN 2501 Part 1 to fit preweld flange as per DIN 2633 (PN 16), ISO 7005-1 (PN 16), ISO 7005-2 (PN 16).	
Max. operating pressure	4.0 bar	
Pressure stage	PN 4	
Max. pressure difference	≤ 10 mbar, maximum recommended pressure difference when new	
Ambient temperature	-15 °C to +80 °C	
Pore width of filter element	≤ 50 µm	
Measuring gas connection	G1/4 as per DIN ISO 228 upstream and downstream of filter element, on left of housing	
Materials	Housing	aluminium cast
	Seals	NBR
	Random laid nonwoven fabric	PP
	Support frame	Stainless steel
Installation position	Any, preferred position: with cap vertical	

Functional description
Filter designed for installation in interior gas lines and compressed air lines to protect downstream fittings. Filter element made of random laid nonwoven polypropylene fabric and metal support frame with pore width of ≤ 50 µm.
Dust, chips and rust as well as other physical gas-accompanying materials and fouling are retained by the random laid nonwoven fabric.
If the dust storage capacity is exceeded or if there is an excessive pressure difference, the filter loses its protective function.

Installation
Refer to gas flow direction indicated by arrow on filter housing.
Provide sufficient space for changing the filter element.
If the filter cap is mounted in vertical position, it is easier to clean the filter housing.
After installation, perform leak test.

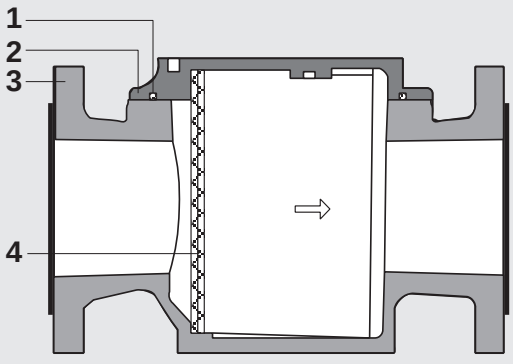
Important: Avoid direct contact between hardening masonry, concrete walls, floors and filter.

Change filter element
- At least once a year
- If pressure difference has increased by 100% compared to new filter
- When pressure difference exceeds 10 mbar

Filter monitoring
The G 1/4 screw plugs can be replaced with suitable screw connections. This permits the connection of an gas differential pressure switch to monitor pressure difference.

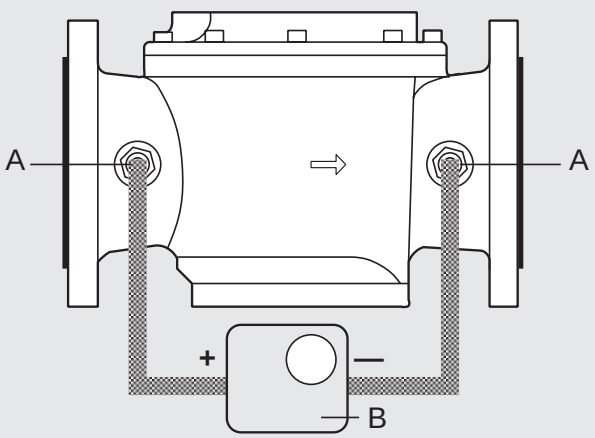
GF .../3 gas filter section

1 O ring
2 Cover
3 Housing
4 Filter element

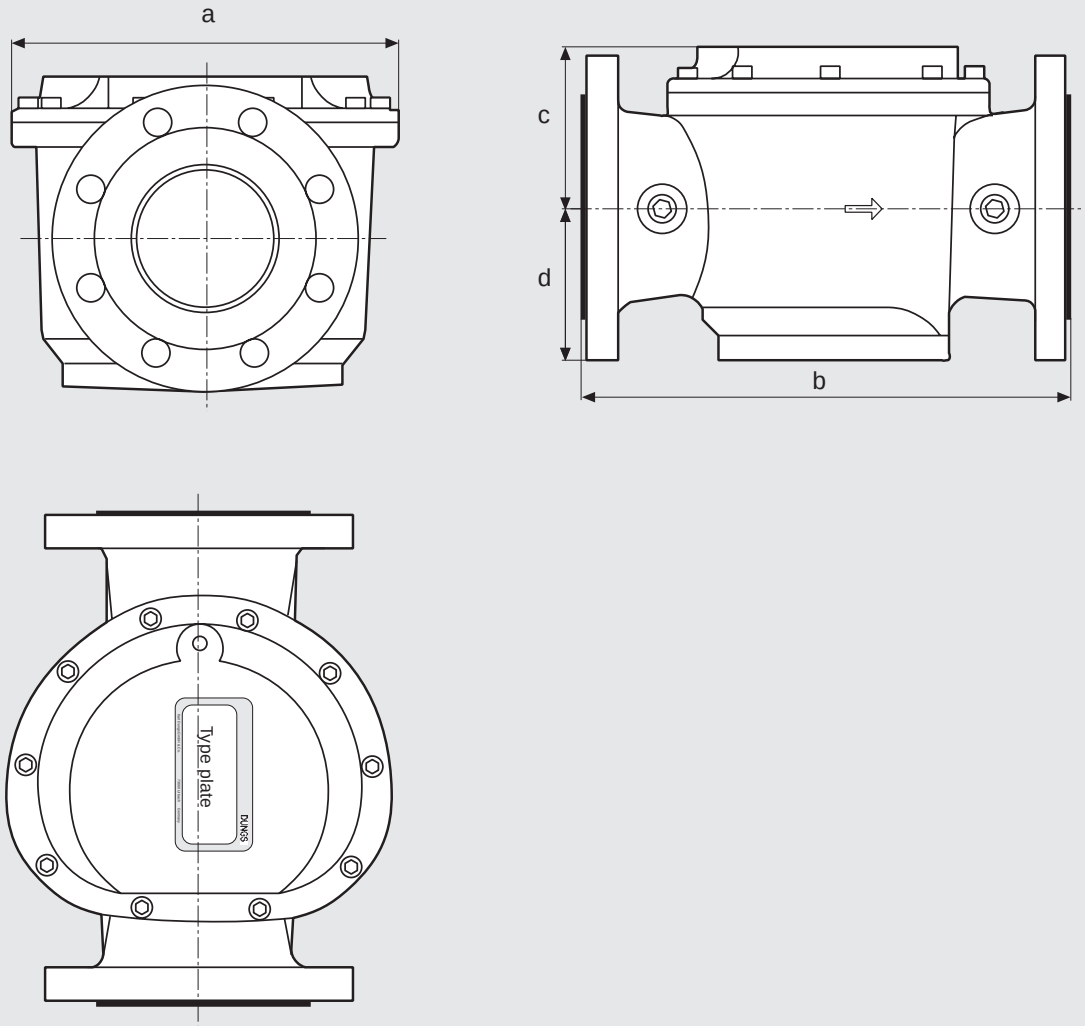


Filter monitor

A G1/4 screw connection
B Differential pressure switch for gas



Dimensions (mm)



Type	Order No.	Max. operating pressure [bar]	DN connection	Dimensions [mm] a	b	c	d	Weight [kg]
GF 40040/3	222 637	**4.0**	DN 40	131	195	56	47	**2.8**
GF 40050/3	222 638	**4.0**	DN 50	159	211	66	49	**3.6**
GF 40065/3	222 639	**4.0**	DN 65	194	256	92	95	**5.7**
GF 40080/3	222 640	**4.0**	DN 80	234	295	103	101	**7.9**
GF 40100/3	222 641	**4.0**	DN 100	281	354	116	112	**11.8**
GF 40125	218 162	**4.0**	DN 125	281	360	178	186	**19.5**
GF 40150	218 163	**4.0**	DN 150	281	385	255	257	**25.5**
GF 40200	218 164	**4.0**	DN 200	387	455	240	236	**40.0**

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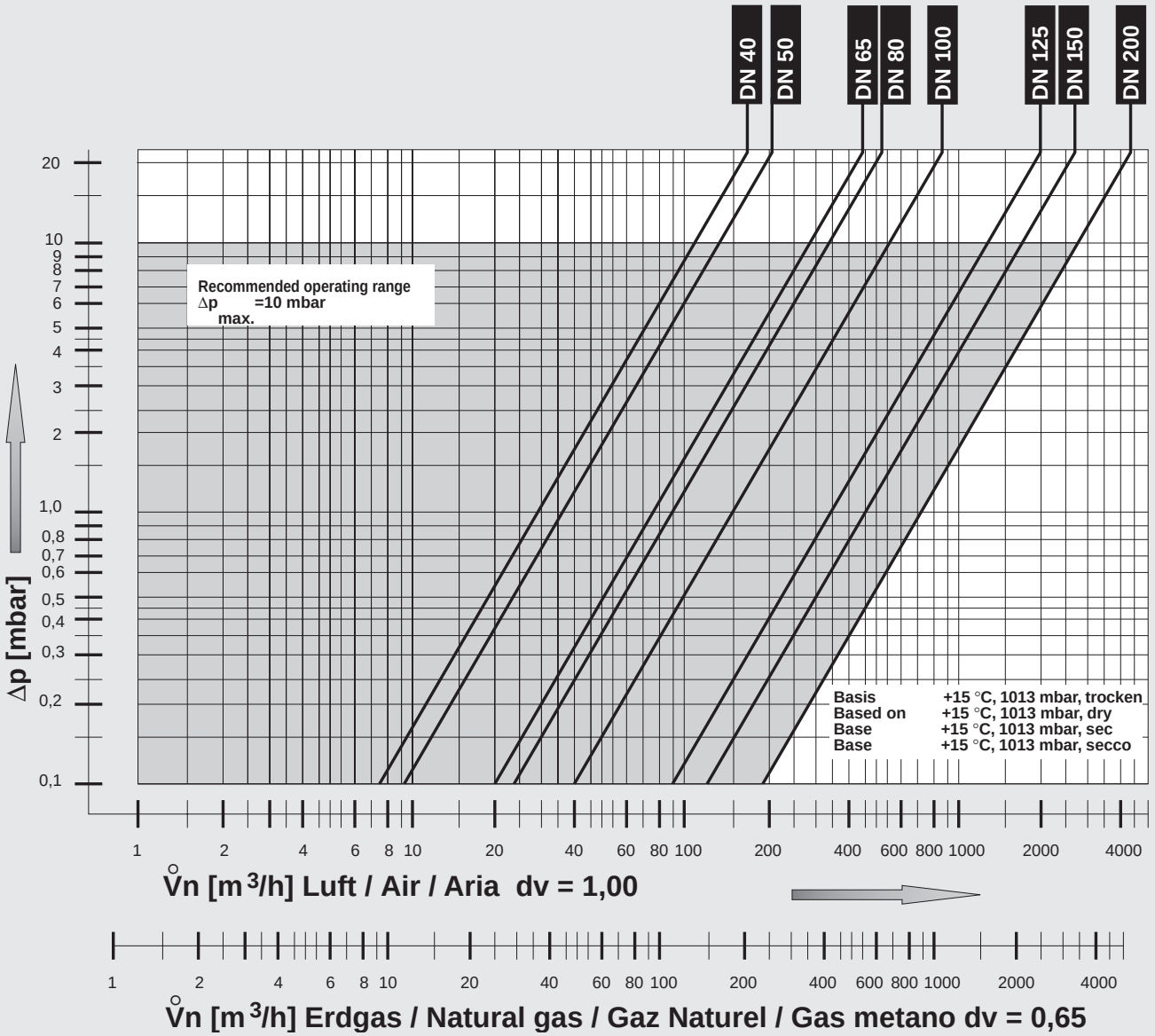
Volumetric flow/pressure drop characteristic



We reserve the right to make any changes in the interest of technical progress.

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