

**Gas and air filter
GF / 1
Rp 1/2 - Rp 2**

11.02

DUNGS®



Technical description

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

Maximum recommended pressure difference:
10 mbar.

Installation option for pressure measurement point for filter monitoring.

Application

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

Approvals

EC type test approval as per EC Gas Appliance Directive:
GF.../1 CE-0085 AQ0121
Approvals in other important gas consuming countries.

Specifications

Nominal diameter	DN 15 DN 20 DN 25 DN 40 DN 50 Rp 1/2 Rp 3/4 Rp 1 Rp 1 1/2 Rp 2 as per ISO 7/1
Max. operating pressure	0.5 bar
Pressure stage	PN 1
Max. pressure difference	≤ 10 mbar, maximum recommended pressure difference in new condition
Ambient temperature	-15 °C to +80 °C
Pore width of filter element	≤ 50 μm
Measuring/ignition gas connection	GF 5.../1: G 1/4 as per DIN ISO 228 upstream and downstream of filter element, on housing cover GF 40.../1 : Screw plugs
Materials	Housing aluminium cast Seals NBR Random laid nonwoven fabric PP, PE Filter holder POM
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 using 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.

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

Change filter element

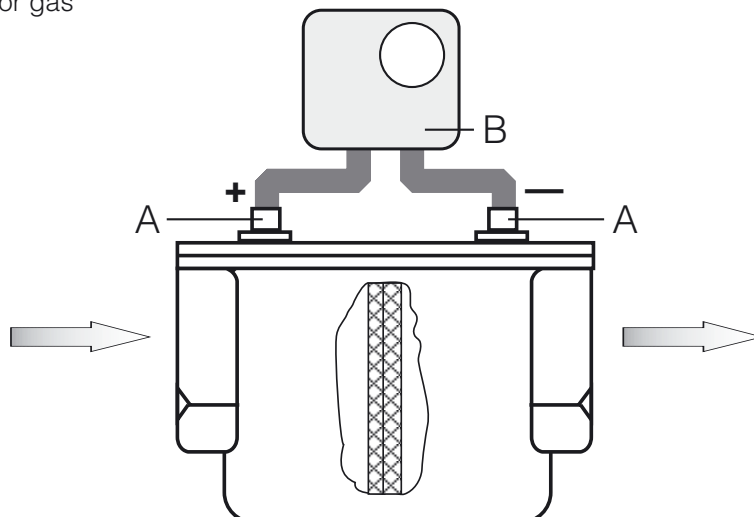
- At least once a year
- If pressure difference has increased by 100% compared to new filter
- When pressure difference exceeds 10 mbar

Filter monitoring

GF 40.../1: The G 1/4 screw plugs can be replaced by suitable screw connections. Connect an gas differential pressure switch to monitor the pressure difference.

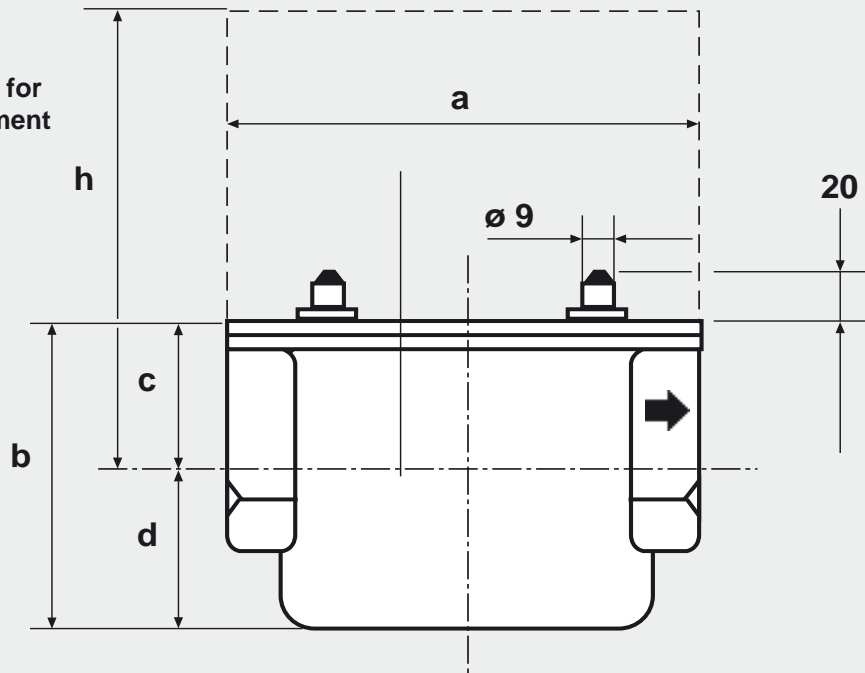
Gas filter with differential pressure switch

- A** G 1/4 screw connection **only** GF 5.../1
B Differential pressure switch for gas



Dimensions (mm)

h Space requirement for changing filter element



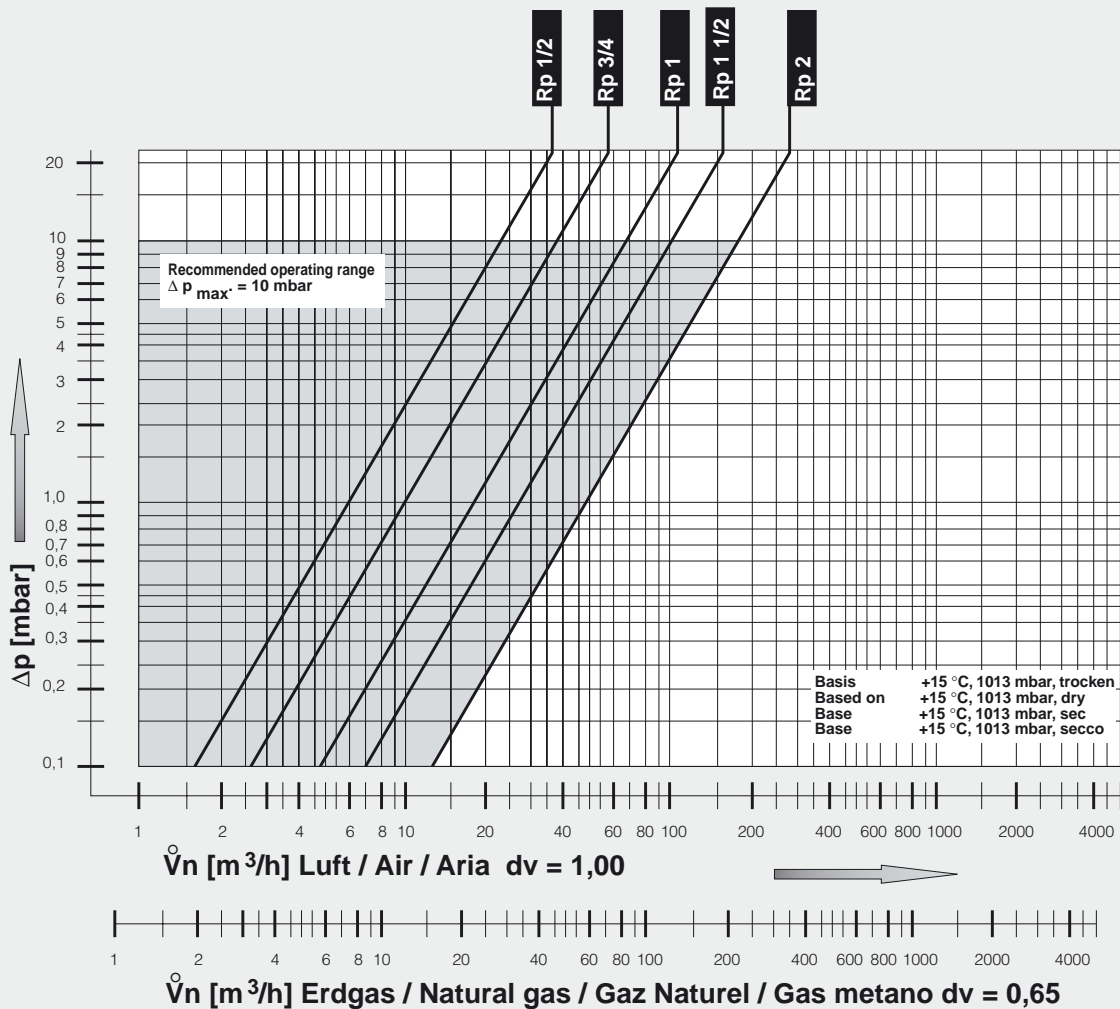
Type	Order No.	Max. operating pressure [bar]	connection Rp	Dimensions [mm]					Weight [kg]
				a	b	c	d	h	
GF 505/1	066 191	0.5	Rp 1/2	120	90	35	55	125	0.7
GF 507/1	066 209	0.5	Rp 3/4	120	90	35	55	125	0.7
GF 510/1	066 217	0.5	Rp 1	160	105	54	51	159	1.1
GF 515/1	066 225	0.5	RP 1 1/2	160	105	54	51	159	1.1
GF 520/1	066 233	0.5	Rp 2	186	140	75	65	215	1.9
GF 4005/1	228 073	4.0	Rp 1/2	120	90	35	55	125	0.7
GF 4007/1	228 074	4.0	Rp 3/4	120	90	35	55	125	0.7
GF 4010/1	228 075	4.0	Rp 1	160	105	54	51	159	1.1
GF 4015/1	228 076	4.0	Rp 1 1/2	160	105	54	51	159	1.1
GF 4020/1	228 077	4.0	Rp 2	186	140	75	65	215	1.9

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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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