Performance Validated Compressed Air & Gas Filters

Features

- Advanced filter design to optimise flow capabilites, significantly reducing differential pressure and thus increasing energy efficiency.
- 18 models with connections from ⅛" to 3" BSPP and rated flows from 10 to 2550 Nm^3/h.
- Extremely low pressure drop across the range (<125 mbar).
- Tested and validated in accordance with ISO 12500-1 & ISO 8573.1:2010.
- Both housings and elements are manufactured using the highest quality materials to provide optimum performance and improved efficiencies.
- Guaranteed safe housing closure with single start, fixed thread engagement stop and lock indication arrows to prevent over tightening ensuring effective sealing.
- Externally accessible float drain supplied as standard.

Easy to Use Elements

Push fit elements perfect sealing within filter housing; colour coded end caps for quick and simple grade identification.

Deep-Pleated Media

Utilising a new deep pleated media combined with a custom-engineered anti-re-entrainment layer, GFNB filters deliver exceptional particulate retention, oil coalescing and aerosol removal, while significantly reducing pressure losses.

nano F[1.1]: Compressed Air & Gas Filters

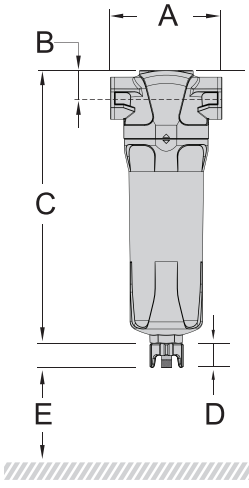
FILTER MODEL	INLET & OUTLET	REPLACEMENT ELEMENT	RATED FLOW [1]	DIMENSIONS (mm) [2]				APPROX. WEIGHT
	BSPP	PART NO.	Nm^3/h	A	B	C	D	kg
GFNB 0006 (grade)	⅛”	GE 0015 (grade)	10	50	17	157	28	0.3
GFNB 0015 (grade)	¼”	GE 0015 (grade)	25	50	17	157	28	0.3
GFNB 0025 (grade)	¼”	GE 0032 (grade)	42	70	24	231	28	0.6
GFNB 0032 (grade)	⅜”	GE 0032 (grade)	54	70	24	231	28	0.6
GFNB 0050 (grade)	½”	GE 0050 (grade)	85	70	24	231	28	0.6
GFNB 0070 (grade)	½”	GE 0105 (grade)	119	127	32	285	42	1.7
GFNB 0085 (grade)	¾”	GE 0105 (grade)	145	127	32	285	42	1.7
GFNB 0105 (grade)	1”	GE 0105 (grade)	178	127	32	285	42	1.7
GFNB 0125 (grade)	1”	GE 0175 (grade)	212	127	32	371	42	2.0
GFNB 0175 (grade)	1”	GE 0175 (grade)	298	127	32	371	42	2.0
GFNB 0280 (grade)	1 ¼”	GE 0325 (grade)	476	140	40	475	42	3.0
GFNB 0325 (grade)	1½”	GE 0325 (grade)	553	140	40	475	42	3.0
GFNB 0450 (grade)	2”	GE 0450 (grade)	765	170	53	508	42	4.9
GFNB 0700 (grade)	2”	GE 0700 (grade)	1190	170	53	708	42	5.5
GFNB 0850 (grade)	2 ½”	GE 0900 (grade)	1445	220	70	736	42	10.5
GFNB 0900 (grade)	3”	GE 0900 (grade)	1530	220	70	736	42	10.5
GFNB 1250 (grade)	3”	GE 1250 (grade)	2125	220	70	857	42	11.5
GFNB 1500 (grade)	3”	GE 1500 (grade)	2550	220	70	1005	42	12.5

SPECIFICATIONS	0006 TO 0015	0025 TO 0050	0070 TO 1500
Design operating pressure range (barg)	0 to 16	0 to 16	1.5 to 16
Automatic float drain [3]	GFDK 0050	GFDK 0050	GFDK 1500
Differential pressure gauge	-	-	GFDP 1500
Differential pressure indicator	-	GFDP 0050	-

ELEMENT PERFORMANCE	M1	M01	AC	RM1
Maximum particle size (ISO class) [4]	3	1	-	3
Particle removal (microns)	1.0	0.01	-	1.0
Maximum oil content (ISO class) [4]	3	2	1	3
Max oil carry over at 20°C (ppm or mg/m^3)	0.3	0.01	0.003	0.3
Design operating temperature range (°C)	0 to 80	0 to 80	0 to 50	0 to 80

PRESSURE CORECTION FACTORS									
Operating pressure (barg)	4	5	6	7	8	10	12	14	16
Correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

(1) At 7 barg. For all other pressures, refer to the pressure correction factors above.
(2) For pressures below 1.5 barg order with an GFDK 0050 condensate drain.
(3) AC & RM1 come with manual drain, all other filters are supplied with an automatic float drain. When high liquid loads are anticipated we recommend installing a high capacity external condensate drain. Contact sales_uk@nano-purification.com for avaliable options.
(4) Per ISO 8573.1:2010
(5) RM1 grade housing, replacment element is M1.



GFNB 0006 to GFNB 1500

Technical specifications subject to change without notice.
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