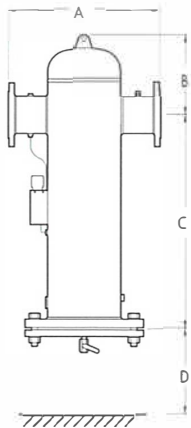


## COMPRESSED AIR FLANGED FILTERS



Walker Filtration design and manufacture in the UK and North America a comprehensive range of compressed air and gas filters in accordance with EN286, ASMEVIII and CRN pressure vessel standards. The range includes various model sizes with flow capacities to suit all industrial applications, high capacity filters are available upon request. Unique features of this range include stainless steel internal parts for maintenance free operation, a dual sided differential gauge for easy viewing and a side mounted drain port for permanent connection to an electronic drain or for a drain balance line. Five grades of filter elements are available and have a tie rod construction for easy replacement. The coalescing elements feature a high temperature drainage layer which is resistant to all oils including synthetic coolants. A tough corrosion resistant polyester powder coating both inside and out filter housings eliminates corrosion.

**W** WALKER  
FILTRATION



Models NA382 to NA12823

FILTER MODEL	FLANGE SIZE	FLOW RATE		ELEMENT MODEL	NUMBER OF ELEMENTS	DIMENSIONS mm				WEIGHT		DIMENSIONS inch				FILTER MODEL
		Nm <sup>3</sup> /h	SCFM			A	B	C	D	Kg	lb	A	B	C	D	
NA382 (grade)	3 Flg	2380	1400	E88 (grade)	2	405	190	985	815	98	215	16	7 1/2	39	32	NA382 (grade)
NA483 (grade)	4 Flg	3570	2100	E88 (grade)	3	460	245	1005	815	148	326	18 1/2	9 3/4	39 1/2	32	NA483 (grade)
NA684 (grade)	6 Flg	4760	2800	E88 (grade)	4	520	305	1045	815	199	439	20 1/2	12	41	32	NA684 (grade)
NA685 (grade)	6 Flg	5950	3500	E88 (grade)	5	520	305	1045	815	199	439	20 1/2	12	41	32	NA685 (grade)
NA686 (grade)	6 Flg	7140	4200	E88 (grade)	6	560	320	1035	815	243	536	22	12 3/4	40 1/2	32	NA686 (grade)
NA888 (grade)	8 Flg	9520	5600	E88 (grade)	8	610	365	1050	815	293	647	24	14 1/2	41 1/2	32	NA888 (grade)
NA8810 (grade)	8 Flg	11900	7000	E88 (grade)	10	710	390	1055	815	353	778	28	15 1/2	41 1/2	32	NA8810 (grade)
NA10812 (grade)	10 Flg	14280	8400	E88 (grade)	12	710	447	1080	815	353	778	28	17 1/2	42 1/2	32	NA10812 (grade)
NA10814 (grade)	10 Flg	16660	9800	E88 (grade)	14	710	447	1080	815	425	936	28	17 1/2	42 1/2	32	NA10814 (grade)
NA10816 (grade)	10 Flg	19040	11200	E88 (grade)	16	840	485	1085	815	551	1214	33	19	42 3/4	32	NA10816 (grade)
NA10818 (grade)	10 Flg	21420	12600	E88 (grade)	18	840	485	1085	815	551	1214	33	19	42 3/4	32	NA10818 (grade)
NA12823 (grade)	12 Flg	??370	16100	F88 (grade)	23	ON APPLICATION										NA12823 (grade)

SPECIFICATION	GRADE X25		GRADE X5		GRADE X1		GRADE XA		GRADE AC	
Maximum particle size class to ISO 8573-1: 2001(E)	4		3		2		1		1	
Maximum oil content class to ISO 8573-1: 2001(E)	-		4		2		1		1	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum oil carryover at 20°C (68°F)	10 mg/m <sup>3</sup>	10 ppm	5 mg/m <sup>3</sup>	5 ppm	0.1 mg/m <sup>3</sup>	0.1 ppm	0.01 mg/m <sup>3</sup>	0.01 ppm	0.003 mg/m <sup>3</sup>	0.003 ppm
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	25°C	77°F
Pressure loss - clean & dry	30 mbar	0.4 psi	40 mbar	0.6 psi	75 mbar	1.1 psi	100 mbar	1.5 psi	75 mbar	1.1 psi
Pressure loss - oil saturated	50 mbar	0.7 psi	75 mbar	1.1 psi	150 mbar	2.2 psi	300 mbar	4.4 psi	see notes	
Pressure loss - change element	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	see notes	
Maximum working pressure	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig	16 barg	232 psig
Element end cap color	black									

\* ISO 8573-1:2001(E) now includes liquid, aerosol and vapor.

\* Reverse flow dust removal filters for installation downstream of regenerative compressed air and gas dryers are available, please insert 'R' prior to the filter element grade required. Dust filter elements operate in a dry condition, therefore the pressure loss oil saturated figure quoted above is not applicable.

## TECHNICAL NOTES

- Flanged filters are fabricated from carbon steel and carry the U stamp and CRN number.
- Flanged filters are designed and manufactured in accordance with ASME VIII and U Stamped for the USA, CRN approved for use within Canada.
- Flanged connections are to ANSI 150 #RF.
- Filter element bottom end caps are color coded black and are internally threaded to ease installation. Direction of air flow, inside to out, through filter element.
- Activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide and carbon dioxide.
- Grade AC elements must be changed periodically to suit application but at least every 6 months.
- Activated carbon towers for larger applications are available to order. Please refer to activated carbon tower leaflet.
- Differential pressure indicators are fitted to all models, part number 65DPIW.
- Inlet and outlet pressure toppings are included to facilitate pressure gauge installation.
- 1/2" manual drain valves are fitted to NA382 (grade) to NA8810 (grade), 3/4" fitted to NA10812 (grade) and NA12823 (grade) as standard. An additional 1/2" side entry drain part is included on models NA382 (grade) to NA8810 (grade), 3/4" to NA10812 (grade) and NA12823 (grade).
- All filter bodies are coated inside and out with blue polyester powder paint finish to eliminate corrosion.
- Flanged filters and filter elements are suitable for use with mineral and synthetic oils plus oil free compressed air applications.
- Flanged filters and filter elements are silicone free.

## CORRECTION FACTOR

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working pressure.

Operating pressure	barg	0.3	0.6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		psi	4						58	72	87	100	115	130	145	160	174	189	203
Correction factor		0.21					0.76	0.84	0.92	1	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51



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