

# Compressed Air Flanged Filters



**As a filtration solution for larger flow applications of up to 25500 Nm<sup>3</sup>/h (15000 SCFM), our range of flanged filters offers 8 models with connections ranging from DN80 to DN300.**

Constructed from robust carbon steel with an anti corrosion Walker E-Coat finish. All flanged housings are fitted with dual sided differential pressure indicators for easy viewing. Permanent drainage is provided via a side mounted drain port.

## Ideal solution for larger flow applications

Oleophobic borosilicate media and a custom engineered anti re-entrainment layer guarantees exceptional dirt holding and drainage capabilities. The unique material construction also minimises pressure drop.

## Custom engineered media for exceptional performance

Five grades of filter elements are available, from fine to coarse including activated carbon. Designed to EN 286-1 and compliant to SPVD (87/404/EEC).



### Applications include

- Chemical
- Electronics
- Food & Beverage
- Manufacturing
- Military
- Oil & Gas
- Paint Applications
- Pharmaceutical Manufacturing
- Pneumatic Conveying



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# Technical Specification

filter model	pipe size	flow rate*		dimensions (mm)				weight Kg	element model	no. of elements
		Nm <sup>3</sup> /h	SCFM	A	B	C	D			
A391 (grade)	DN80	2160	1270	450	265	1205	700	58	E139 (grade)	1
A483 (grade)	DN100	3100	1824	520	285	1245	700	74	E88 (grade)	3
A484 (grade)	DN100	4250	2500	520	285	1245	700	74	E88 (grade)	4
A686 (grade)	DN150	6500	3824	680	400	1400	700	165	E88 (grade)	6
A688 (grade)	DN150	8720	5130	780	400	1430	700	208	E88 (grade)	8
A8810 (grade)	DN200	11000	6470	780	400	1460	700	260	E88 (grade)	10
A10816 (grade)	DN250	17000	10000	900	550	1570	700	450	E88 (grade)	16
A12824 (grade)	DN300	25500	15000	900	600	1620	700	740	E88 (grade)	24

\* Rated flow at 7 barg, reference conditions 1 bar (a) 20°C

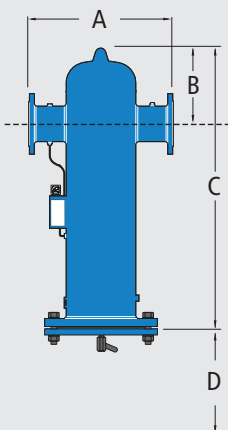
	X25		X5		X1		XA		AC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum particle size class**	-		3		2		1		1	
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	50°C*	122°F*
Pressure loss - clean & dry	30 mbar	0.4 psi	40 mbar	0.6 psi	75 mbar	1.1 psi	100 mbar	1.5 psi	75 mbar	1.1 psi
Pressure loss - change element	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	at least every 6 months	
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 colour A391	black		green		red		blue		black	
Element end cap colour A483 - A12824	black									

\*\* to ISO 8573-1:2001 (E)

### pressure correction factors

for maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure

Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)
7 barg - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51



A391 (grade) to A12824 (grade)

### technical notes

- 1 Direction of air flow is inside to out through the filter element.
- 2 Differential pressure indicators (65DPiG) are fitted to models A391 to A12824. AC grade filters do not include DP equipment.
- 3 Flanged filters are fitted with manual drain valves. On models A391 to A8810, 1/2" are fitted; 3/4" on models A10816 to A12824.
- 4 An additional 1/2" side entry port is included on models A391 to A8810, 3/4" for A10816 and A12824.
- 5 Activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).
- 6 Flanged filters are fabricated from carbon steel and carry the CE mark where applicable.
- 7 Flanged vessels are designed and manufactured in accordance with BS EN 286 Part 1 and meet the Simple Pressure Vessels Directive.
- 8 Cross port dimensions on flanged vessels are subject to a manufacturing tolerance of +/- 3mm and a squareness tolerance of 1 degree.
- 9 Flanged connections are complete with mating flanges to BS4504, PN16.
- 10 Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months / 1000 hours (whichever comes first).
- 11 \*Recommended operating temperature 25°C (77°F)