SR
Gas Purification Solutions

Flanged Dust Filters

Applications include

Chemical

Electronics

Food & Beverage

Manufacturing

Military

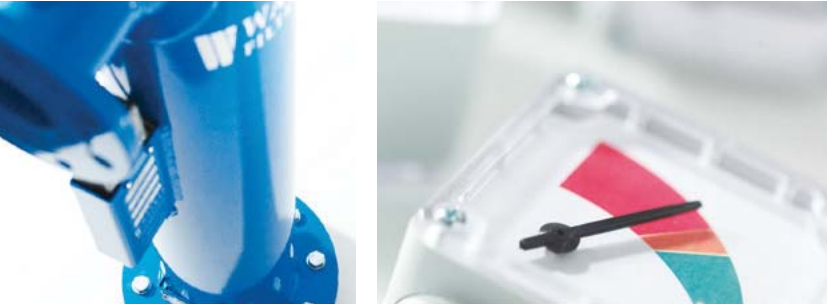Oil & Gas

Paint Applications

Pharmaceutical Manufacturing

Pneumatic Conveying

For larger flow dust removal applications, our flanged range is perfect for installation downstream of regenerative air and gas dryers.

Our flanged dust filters are robust and corrosion resistant thanks to their carbon construction and Walker E-Coat™ finish. Dual sided differential pressure indicators are fitted as standard for easy viewing. All models are also fitted with a side mounted drain port for permanent drainage.

Flows of up to 15000 SCFM (25500 Nm³/h)

Our unique media construction guarantees exceptional dirt holding, improved drainage and minimal pressure drop. A deep bed of oleophobic borosilicate media finished with a custom engineered anti re-entrainment layer delivers reliable filtration with improved efficiency.

Custom engineered media for exceptional performance

Dust filters are available in 5 grades to suit your application and operate in reverse flow. Designed to EN 286-1 and compliant to SPVD (87/404/EEC).

Tested and validated to international standards

CAGI   ®   UKAS

bcas
BRITISH COMPRESSED
AIR SOCIETY LIMITED

W WALKER
FILTRATION

Technical Specification

filter model	pipe size	flow rate*		dimensions (mm)				weight Kg	element model	no. of elements
		Nm³/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℃

	RX25		RX5		RX1		RXA		RAC	
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℃	248°F	120℃	248°F	120℃	248°F	120℃	248°F	25℃	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 - 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	black									

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

65
75

65DPIG

A

B

C

D
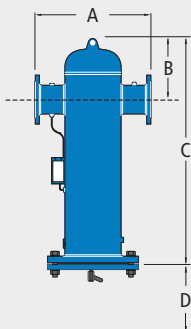
A391 (grade) to A12824 (grade)

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

technical notes

1. Direction of air flow is outside to in 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, ½" are fitted; ¾" on models A10816 to A12824.
4. An additional ½" side entry port is included on models A391 to A8810, ¾" 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_2).
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).

WALKER FILTRATION