



Fabricated Flanged Medical Vacuum

Models | A391MV to A686MV

Flow Rates 194 SCFM (330Nm³/h) to 388 SCFM (660Nm³/h)

**Ideal Solution
for Larger Flow
Applications**

Designed for use in critical medical applications to remove solid, liquid and bacterial contamination in vacuum systems, Walker Filtration's Medical Vacuum Flanged Filters guarantee a safe and reliable product for larger flow applications that is trusted by hospitals worldwide.

Situated on the suction side of the vacuum pump, Medical Vacuum Filters are essential to avoiding damage to vacuum pumps and preventing potentially hazardous biological contagions from being exhausted into the surrounding environment.

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.



Efficient Filtration Technology

Filtration efficiency in excess of 99.9999% (HTM 02-01 specifies >99.995%)



Product Safety in Mind

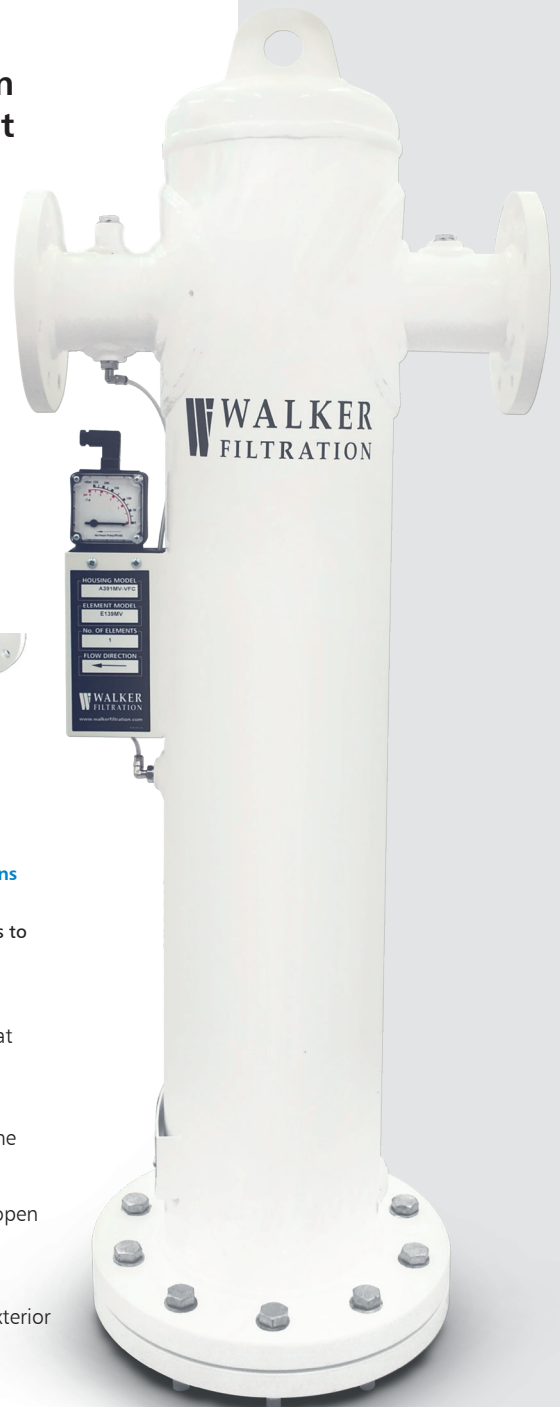
Easily removable sterilisable drain flask and Differential Pressure monitor supplied as standard



DN80 to DN150 Connections

Flanged connections are complete with mating flanges to BS4504, PN16.

- **High Efficiency Medical Grade Filter Element** Custom engineered filter media and deep pleat element technology provides minimal pressure loss and filtration efficiencies in excess of international medical gas standards
- **International Medical Gas Standard** Designed in accordance with global medical gas pipeline systems standards ISO 7396-1, HTM 02-01, NFPA 99 and AS 2896
- **Advanced Filtration Technology** Low pressure loss borosilicate glass microfiber-media and open cell reticulated foam pre-filtration layer captures particulates, bacteria and liquid aerosols reducing energy consumption and overall system costs for low total cost of ownership
- **Corrosion Protection** Internal and external electrophoretic painting followed by a tough exterior polyester powder coating
- **Product Safety in Mind** Quality design and build. Flanged vessels are designed and manufactured in accordance with BSEN286



For further information please call: +44 (0) 191 417 7816



Technical Specification

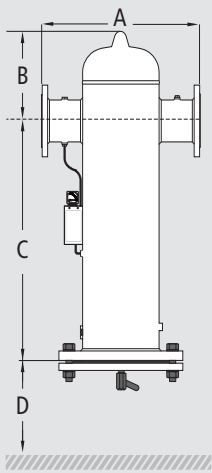
Filter model	Pipe size inches	Inlet flow rate*		Dimensions mm				Weight Kg	Element model	No. of elements
		Nm ³ /h	SCFM	A	B	C	D			
A391MV	3 (DN80)	330	194	450	300	940	700	58.0	E139 (grade)	1
A483MV	4 (DN100)	406	238	520	300	960	700	74.0	E88 (grade)	3
A484MV	4 (DN100)	492	289	520	300	960	700	74.0	E88 (grade)	4
A686MV	6 (DN150)	660	388	680	400	1000	700	165.0	E88 (grade)	6

*Rated flow at 101.325kPa (1013.25 mbar(a)), 20°C

Grade	MV
Particle removal efficiency	>99.995%**
Maximum temperature	60°C (140°F)
Pressure loss - clean & dry	≤ 3 kPa (30 mbar / 0.44 psig)
Maximum working pressure	0.5 barg (7 psig)
Maximum working vacuum	Full Vacuum
Element end cap colour	Black

**In accordance with BS3928:1969

Pressure correction factor		for maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure								
Operating vacuum	mbar abs	atmospheric	900	800	700	600	500	400	300	200
	Torr	760	675	600	525	450	375	300	225	150
	psia	14.7	13.0	11.6	10.2	8.7	7.3	5.8	3.3	2.9
Correction factor		1.00	0.93	0.86	0.79	0.71	0.64	0.57	0.5	0.43



A391 MV to A686 MV

Technical Notes

1. Direction of air flow is inside to out through the filter element.
2. Differential Pressure Gauge (65DPG250B) is fitted to all flanged models.
3. Sterilisable glass drain flasks are supplied as standard. An additional 1/2" side entry drain port is included on models A391 MV to A686 MV.
4. Flow rates shown above are free air conditions when operating at atmospheric pressure
5. Pressure for leak testing purposes MUST be limited to 7 barg and only applied with the drain valve and drain flask REMOVED.
6. Flanged filters are fabricated in carbon steel with a polyester protective coating.
7. Flanged vessels are designed and manufactured in accordance with BS EN286 and meet the Simple Pressure Vessels Directive.
8. Flanged connections are complete with mating flanges to BS4504, PN16..
9. Cross port dimensions on flanged vessels are subject to a manufacturing tolerance of +/- 3mm and a squareness tolerance of 1 degree.

