

STERILE VENT

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STERILE VENT FILTERS SERIES VE

Demands for absolute microbiological control assurance within the food, beverage, dairy, brewery and pharmaceutical industries are continuously increasing. Complete retention of micro-organisms such as bacteria, viruses and bacteriophages, the largest possible filter area, low differential pressure and cost effectiveness are standard requirements that a filter must meet.

As a solution for this application, the SG series cartridge was developed with an absolute retention of 0.01 µm in gas and compressed air. With the help of the pleated depth media with a voids volume of 95% (PTFE:85%;PVDF:67%) the flow rate could be increased several times while maintaining a low differential pressure.

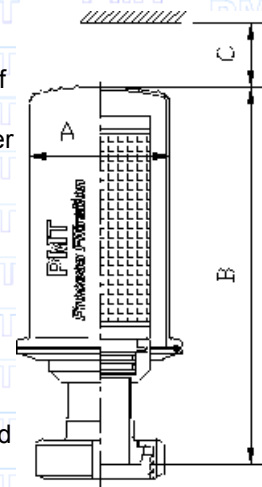
The high particle absorption capacity increases the life of the SG series filter cartridge while at the same time reducing filtration costs. Heat stabilised Polypropylene together with internal stainless steel core result in high mechanical stability. The PTFE impregnated medium protects against the wetting of the filter medium with water / condensate on the inlet of the filter.

Series SG filter cartridges revolutionise sterile air filtration. They offer the user the best opportunity for cost effective and reliable filtration.

The **PMT™** sterile vent filter series VE, is equipped with a **PMT™** series SG pleated hydrophobic PTFE impregnated Borosilicate micro-fibre cartridge. The design of the cartridge and filter housing aids in quick replacement of filter cartridges.

Standard equipment includes;

- * Stainless steel filter housing
- * Pleated hydrophobic PTFE impregnated Borosilicate micro-fibre cartridge



HOUSING:

Material	Stainless steel 304
Surface finish	High external polish
Vent & drain connection	¼" BSP plug
Max operating pressure	16 bar
Connections	DN15-DN50 DIN11851
	Others e.g. Tri-Clamp on request
Seals	EPDM standard
	Others on request

CARTRIDGE:

Filter media	Pleated, PTFE impregnated Borosilicate micro-fibre (hydrophobic)
Inner core	2½" & 5" heat stabilised polypropylene
Outer Core	KC & 10" – 30" stainless steel Heat stabilised Polypropylene
Retention rate	0.01µm
Operating temp	80°C
Sterilisation	Sat. steam - 130°C & 30 min. 0.5 bar max ΔP. Autoclave - 130°C & 30 min.
Biological safety Validation	Acc. USP plastics class VI and BS5736 Aerosol challenge test

FILTER TYPE	Capacity 1 bar abs. 20°C		Connection DIN11851	Dimensions			Cartridge Length mm / Inch	Filter Area m ²	Cartridge Type
	ΔP 25 mbar	ΔP 50 mbar		DN	A	B			
	m ³ /h	m ³ /h							
VE07SG	8	14	15	80	150	170	65 / 2½	0.09	SG09T
VE09SG	12	17	20	80	150	170	65 / 2½	0.09	SG09T
VE11SG	16	28	25	104	205	225	125 / 5	0.18	SG13T
VE12SG	18	30	32	104	205	225	125 / 5	0.18	SG13T
VE13SG	20	32	40	104	205	225	125 / 5	0.18	SG13T
VE13KCS G	32	55	50	104	271	225	125 / 5	0.2	SG13KCT
VE14SG	65	120	50	104	435	370	250 / 10	0.4	SG14T
VE15SG	90	210	50	104	685	600	500 / 20	0.8	SG18T