

HAFFMANS CPM[®]-PVF PRE-FILTER

GENERAL PRODUCT INFORMATION

Haffmans CPM pre-filters feature an innovative design that offers significant advantages over traditional filter cartridges used in food, beverage, and other process applications. Each CPM filter is rigorously tested to ensure exceptional performance, delivering maximum reliability, extended service life, and cost-effective operation.

Effective pre-filtration is an essential part of your production process and serves as protection for the air and gas line instruments.

The CPM pre-filter, type PVF, is a validated pre-filter for up to 100 percent particle-free filtration of all types of compressed air, carbon dioxide (CO₂) and other gases. Equipped with the patented, flexible Ecofilter element, consisting of filter membranes in between segmented stainless steel disks, the PVF offers the highest filtration efficiency and security.

The PVF's filter membranes are made of woven stainless steel threads that assure absolute filtration. CPM pre-filter membranes can be supplied in a variety of pore sizes to meet your special requirements and allow for high flow capacities against very little pressure loss. The innovative filter design makes up to 100 percent reverse flow filtration possible.



CUSTOMER BENEFITS

- **Robust design:** Stainless steel segmented elements ensure long-lasting durability.
- **Quick maintenance:** Cost-effective filter membranes are easy to replace, minimizing downtime.
- **Lower costs:** Reduced inventory and waste cut both expenses and environmental impact.
- **Sustainable:** Only the membrane is replaced, reducing material waste.
- **CIP-compatible:** Clean-in-place design eliminates the need for disassembly.

APPLICATIONS

- Particle-free filtration of compressed air, CO₂, and other gases for a wide range of industrial applications.

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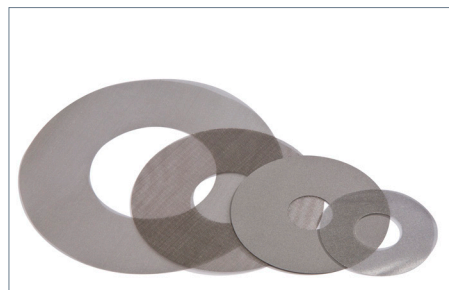
FEATURES

- Unique and flexible modular filter design.
- Robust stainless steel construction, including stainless steel membranes, results in no damage or aging of the filter element.
- Only the filter element is replaced as a wear part.
- Easy up- and downscaling of filter capacity.
- High filter capacities possible.
- Filter elements can be retrofitted within conventional filter housings.
- CPM standard filter housings are equipped with condensate release connections for both the inlet and outlet that can also be used for filter element testing.
- Up to 100 percent reverse flow filtration and sterilization possible.
- Absolute pore size of woven stainless steel thread membranes provides absolute filtration.
- Filter membranes can be chemically and/or mechanically cleaned.



SUPERIOR MEMBRANE TECHNOLOGY

CPM pre-filters use an innovative membrane technology that allows for up to 100 percent particle-free filtration of all types of compressed air, CO₂ and other gases. The filter membranes are available in various sizes. Standard pore size delivered is 32 µm. Other pore sizes are dependent on availability.



MAXIMUM FLEXIBILITY

All CPM pre-filters with standard filter housings can be used for primary and secondary sampling, and to drain condensate. CPM pre-filters are optionally delivered with valves for condensate release connections.

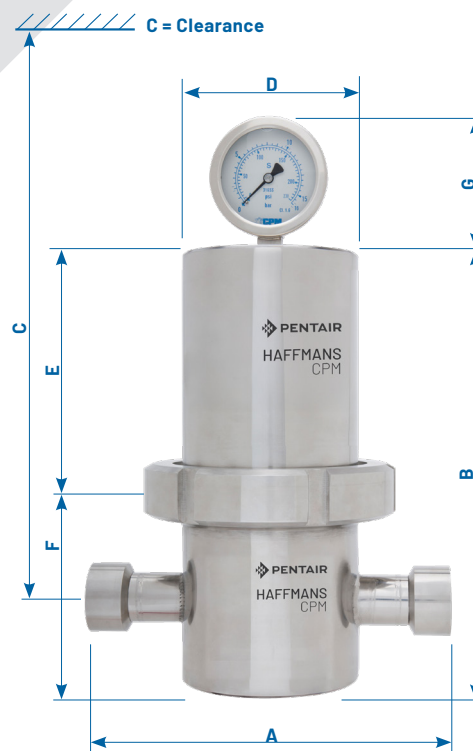


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TECHNICAL DATA

PRE-FILTER TYPE, DIMENSIONS IN MM							
Type	A	B	C	D	E	F	G
6002	160	235	310	70	143	100	85
6004	160	235	330	70	143	100	85
6006	160	235	350	70	143	100	85
8202	210	248	320	104	143	115	85
8204	210	248	340	104	143	115	85
8206	210	248	360	104	143	115	85
8208	210	293	430	104	188	115	85
8210	210	293	450	104	188	115	85
1008	330	397	500	154	237	170	85
1010	330	397	520	154	237	170	85
1012	330	397	540	154	237	170	85
1014	330	397	560	154	237	170	85
1408	330	392	500	154	234	170	85
1410	330	392	520	154	234	170	85
1412	330	392	540	154	234	170	85
1414	330	455	610	154	234	185	85
1416	330	455	630	154	234	185	85
1418	330	508	710	154	335	185	85
1420	330	508	730	154	335	185	85
1426	330	657	940	154	484	185	85
1432	330	657	1000	154	484	185	85

STANDARD FILTER HOUSING



CPM standard filter housings are designed for upstream and downstream sampling as well as in-line testing of the filter element with a suitable filter tester.

Filter housing material: Stainless steel AISI 304

Segmented filter element material: Stainless steel AISI 304

Filter membrane material: Stainless steel AISI 304

Standard pore size: 32 µm

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TECHNICAL DATA

Filter	Kapazität Luft/Gas		Filtergehäuse, Verbindung		Gewicht		Einzelne Filterelemente	Ersatz- membranen		Filtergehäuse, max. Druck	
Type	7 barg	100 psig	BSP	DIN-11851			Type	Quantity	Type		
	Nm³/h	scf/m	G	DN	kg	lbs				barg	psig
PVF-6002	40	24	½"	15	3.8	8	SF-60/02	2	EM-60/32S	20	290
PVF-6004	80	48	½"	15	4.0	9	SF-60/04	4	EM-60/32S	20	290
PVF-6006	120	72	½"	15	4.2	9	SF-60/06	6	EM-60/32S	20	290
PVF-8202	120	72	1"	25	6.4	14	SF-82/02	2	EM-82/32S	20	290
PVF-8204	240	144	1"	25	6.6	15	SF-82/04	4	EM-82/32S	20	290
PVF-8206	360	216	1½"	40	6.8	15	SF-82/06	6	EM-82/32S	20	290
PVF-8208	480	288	1½"	40	7.2	16	SF-82/08	8	EM-82/32S	20	290
PVF-8210	600	360	1½"	40	7.4	16	SF-82/10	10	EM-82/32S	20	290
PVF-1008	680	408	2"	50	14.4	32	SF-100/08	8	EM-100/32S	16	232
PVF-1010	850	510	2"	50	13.8	30	SF-100/10	10	EM-100/32S	16	232
PVF-1012	1020	612	2"	50	14.2	31	SF-100/12	12	EM-100/32S	16	232
PVF-1014	1190	714	2"	50	14.6	32	SF-100/14	14	EM-100/32S	16	232
PVF-1408	1360	816	2"	50	20.0	44	SF-140/08	8	EM-140/32S	16	232
PVF-1410	1700	1020	2"	50	20.5	45	SF-140/10	10	EM-140/32S	16	232
PVF-1412	2040	1224	2"	50	21.5	47	SF-140/12	12	EM-140/32S	16	232
PVF-1414	2380	1428	2 ½"	65	22.5	50	SF-140/14	14	EM-140/32S	16	232
PVF-1416	2720	1632	2 ½"	65	24.5	54	SF-140/16	16	EM-140/32S	16	232
PVF-1418	3060	1836	2 ½"	65	25.5	56	SF-140/18	18	EM-140/32S	16	232
PVF-1420	3400	2040	3"	80	26.5	58	SF-140/20	20	EM-140/32S	16	232
PVF-1426	4420	2652	3"	80	28.0	62	SF-140/26	26	EM-140/32S	16	232
PVF-1432	5440	3264	3"	80	29.5	65	SF-140/32	32	EM-140/32S	16	232

Arbeitsdruck	barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psig	14.5	29	43.5	58	72.5	87	101.5	116	130.5	145	159.5	174	188.5	203	217.5	232
Umrechnungsfaktor		0.25	0.38	0.50	0.63	0.75	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1

Pore sizes in µm	3	10	25	32	50	75/100
Conversion factor	0.5	0.6	0.8	1.0	1.5	2



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