

Sterile Filter Type PSF

Validated sterile filter for 100% contamination free filtration of air, compressed air, CO2 and other gases. CPM® sterile filters are equipped with the variable CPM®-ECOFILTERELEMENT®.

High efficiency, 100% security and reliability are the specialties of the unique line of filters.

CPM® sterile filter membranes, made from PTFE have an extremely high pore distribution (95%) which allows high throughput and very little pressure loss, are permanently hydrophobic, no bacteria growth is possible.

CPM® sterile filters make 100% reverse flow filtration possible. Standard equipment includes a glycerine filled, temperature resistant, stainless steel pressure gauge. CPM® sterile filters are designed for upstream and downstream sampling as well as draining condensate.

CPM® sterile filters are sterilizable in situ using steam up to 140°C for 6 minutes in both directions for 150 times. See NFL-report.

Technical data:

Filter type	Leistung Capacity		Gehäuseanschlüsse Housing connections		Gewicht/weight		Segment- filterelement Segmented filter element	Ersatzfilter Replacement Membrane(s) Anzahl / Typ	Maximal Druck Filtergehäuse maximal pressure filter housing	
	7 bar/ü Nm3/h	100 psig scf/m	Milchrohr Milk pipe	Gewinde thread	kg	lbs			16	232
PSF-6002	40	24	15	½"	3,8	8	SF-60/02	2 EM-60/3T	16	232
PSF-6004	80	48	15	½"	4,0	9	SF-60/04	4 EM-60/3T	16	232
PSF-6006	120	72	15	½"	4,2	9	SF-60/06	6 EM-60/3T	16	232
PSF-8202	120	72	25	1	6,4	14	SF-82/02	2 EM-82/3T	16	232
PSF-8204	240	144	25	1	6,6	15	SF-82/04	4 EM-82/3T	16	232
PSF-8206	360	216	40	1 ½"	6,8	15	SF-82/06	6 EM-82/3T	16	232
PSF-8208	480	288	40	1 ½"	7,2	16	SF-82/08	8 EM-82/3T	16	232
PSF-8210	600	360	40	1 ½"	7,4	16	SF-82/10	10 EM-82/3T	16	232
PSF-1008	680	408	50	2	13,4	30	SF-100/08	8 EM-100/3T	16	232
PSF-1010	850	510	50	2	13,8	30	SF-100/10	10 EM-100/3T	16	232
PSF-1012	1020	612	50	2	14,2	31	SF-100/12	12 EM-100/3T	16	232
PSF-1014	1190	714	50	2	14,6	32	SF-100/14	14 EM-100/3T	16	232
PSF-1408	1360	816	50	2	20,0	44	SF-140/08	8 EM-140/3T	16	232
PSF-1410	1700	1020	50	2	20,5	45	SF-140/10	10 EM-140/3T	16	232
PSF-1412	2040	1224	50	2	21,5	48	SF-140/12	12 EM-140/3T	16	232
PSF-1414	2380	1428	65	2 ½"	22,5	50	SF-140/14	14 EM-140/3T	16	232
PSF-1416	2720	1632	65	2 ½"	24,5	54	SF-140/16	16 EM-140/3T	16	232
PSF-1418	3060	1836	65	2 ½"	25,5	56	SF-140/18	18 EM-140/3T	16	232
PSF-1420	3400	2040	80	3	26,5	58	SF-140/20	20 EM-140/3T	16	232
PSF-1426	4420	2652	80	3	28,0	62	SF-140/26	26 EM-140/3T	16	232
PSF-1432	5440	3264	80	3	29,5	65	SF-140/32	32 EM-140/3T	16	232

Betriebsüberdruck bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Working pressure psi	15	30	45	58	72	87	100	115	130	145	160	174	189	203	217	232
Umrechnungsfakt Conversion factor	0,25	0,38	0,50	0,65	0,75	0,88	1	1,13	1,25	1,38	1,50	1,60	1,75	1,88	2,0	2,13

Filter housing material	: Stainless steel aisi 304
Filter cartridge material	: Stainless steel aisi 304
Maximum pressure filter housing	: 16 bar / 232 psig
Material warranty	: 5 years except for filter membranes
Retaining rate nominal	: 0,02 µm
Retaining rate absolute	: 0,20 µm

Material Filtergehäuse	: Edelstahl Werkstoff 1.4301
Material Filterkerze	: Edelstahl Werkstoff 1.4301
Maximaler Betriebsdruck*	: 16 bar/ü
Materialgarantie	: 5 Jahre (außer Filtermembranen)
Rückhalterate nominal	: 0,02 µm
Rückhalterate absolut	: 0,20 µm

Recommended sterilization procedures

Saturated steam	: 20 minutes at 121°C 10 minutes at 130°C 6 minutes at 140°C
Hot air	: 12 hours at 121°C

Empfohlene Sterilisationsarten

Partikelfreier Heißdampf	: 20 Minuten 121°C 10 Minuten 130°C 6 Minuten 140°C
Heißluft	: 12 Stunden 121°C