

sterile air membrane filters

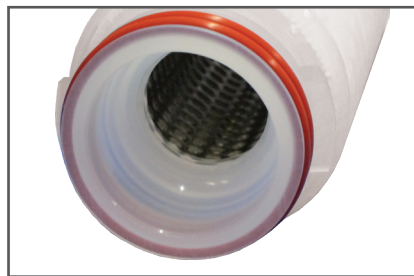
FEATURES

- pharmaceutical grade process filters for critical processes requiring integrity validation
- high efficiency and low pressure drop
- provide effective performance for absolute validated filtration in compressed air or gas prior to incidental product contact.
- encompasses 10 models with connections from ¼" to 3" NPT and rated flows from 40 to 702 scfm
- specifically designed to absolute particulate and bacteria retention in sterile environments
- exceeds Safe Quality Food (SQF) Air Quality Standard
- ideally suited for pharmaceutical protocols where documentation and integrity are critical
- applications include pharmaceuticals, biotechnology, food processing, beverage, dairy and hospitals



PTFE membrane filtration

housed in a polypropylene element incorporates a positive double o-ring click-lock seal and is 100% integrity tested



SS housings

fabricated from polished 304 or 316 stainless steel for critical air and gas applications



nano-purification solutions
charlotte, north carolina
united states

nano-purification solutions
new bethlehem, pennsylvania
united states

nano-purification solutions
st. catharines, ontario
canada

nano-purification solutions
gateshead, tyne and wear
united kingdom

nano-purification solutions
krefeld, germany

tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

SPECIFICATIONS

filter model	inlet & outlet		rated flow ⁽¹⁾		dimensions (inches)			approx. weight	replacement element
	NPT	scfm	Nm ³ /h	A	B ⁽²⁾	C	D	lbs	
PF 0050 SM-N	¼"	40	68	9.45	4.14	2.76	2.24	4.2	E 102 SM
PF 0065 SM-N	⅜"	50	85	9.45	4.14	2.76	2.24	4.4	E 102 SM
PF 0085 SM-N	½"	55	93	9.45	4.25	2.76	2.24	4.6	E 102 SM
PF 0120 SM-N	¾"	60	102	9.45	4.92	2.76	2.24	5.1	E 102 SM
PF 0170 SM-N	1"	102	173	11.40	4.92	3.35	2.78	7.3	E 105 SM
PF 0295 SM-N	1 ½"	118	201	12.70	5.51	3.35	3.49	11.4	E 105 SM
PF 0460 SM-N	2"	235	399	19.02	6.70	4.10	3.64	12.1	E 110 SM
PF 0680 SM-N	2"	435	739	29.37	6.70	4.10	3.64	15.0	E 120 SM
PF 0850 SM-N	2 ½"	468	795	29.53	7.17	4.10	3.80	15.2	E 120 SM
PF 1150 SM-N	3"	702	1193	40.04	7.17	4.10	3.96	19.4	E 130 SM

specifications	standard	optional
design operating pressure range	0 to 232 psig	-
inlet & outlet connections	NPT (F)	tri-clamp sanitary
drain & vent connections	¼" BSPP	-
filter housing material	1.4301 quality 304 stainless steel	1.4404 quality 316L stainless steel
filter housing polishing	passivated & polished to grade Ra <1.6 um	-
filter housing seals	aseptic EPDM	consult factory

element performance	
particle removal (at 100% PTFE membrane)	0.01 micron
continuous operating temperature range	35 to 140°F
maximum sterilizing temperature ⁽³⁾	257°F
media material	hydrophobic PTFE membrane
media support & end cap material	polypropylene
element to housing connection	positive click lock with dual silicone o-rings

pressure correction factors									
operating pressure (psig)	60	70	85	100	115	145	175	205	232
correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51

- (1) at 100 psig. For all other pressures, refer to the pressure correction factors above
- (2) +/- 0.118"
- (3) at 30 psia for 20 minutes. Applies to element only
- (4) validation documents available upon request
- (5) not for use in air or gas streams containing water or oil
- (6) all materials conform to 21CFR Part 177 of the US code of Federal Regulations and USP Class VI Biological test for plastics
- (7) air flow from outside to inside
- (8) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

