

sterile air depth filters

FEATURES

- stainless steel process filters for bio-burden reduction in compressed air and gas
- high efficiency and low pressure drop
- provide efficient, cost effective performance for bio-burden reduction in compressed air or gas prior to incidental product contact
- encompasses 6 models with connections from ½" to 3" NPT and rated flows from 85 to 1150 scfm
- specifically designed for particulate and bacteria retention in sterile environments
- exceeds Safe Quality Food (SQF) Air Quality Standard
- ideally suited for process applications such as food and beverage facilities with wash down requirements
- applications include food processing, beverage, dairy, biotechnology, hospitals and packaging industry



100% integrity tested

non-woven depth pleated polypropylene elements incorporate a positive double o-ring click-lock seal



SS housings

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



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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 0085 SD-N	½"	85	144	9.45	4.25	2.76	2.24	4.6	E 102 SD
PF 0120 SD-N	¾"	120	204	9.45	4.92	2.76	2.24	5.1	E 102 SD
PF 0170 SD-N	1"	170	289	11.40	4.92	3.35	2.78	7.3	E 105 SD
PF 0460 SD-N	2"	460	782	19.02	6.70	4.10	3.64	12.1	E 110 SD
PF 0850 SD-N	2 ½"	850	1444	29.53	7.17	4.10	3.80	15.2	E 120 SD
PF 1150 SD-N	3"	1150	1954	40.04	7.17	4.10	3.96	19.4	E 130 SD

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% pleated depth PP)	0.01 micron
continuous operating temperature range	35 to 120°F
maximum sterilizing temperature ⁽³⁾	257°F
media material	polypropylene ⁽⁴⁾
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) hydrophobic graded porosity non-woven depth pleated
- (5) validation documents available upon request
- (6) not for use in air or gas streams containing water or oil
- (7) all materials conform to 21CFR Part 177 of the US code of Federal Regulations and USP Class VI Biological test for plastics
- (8) air flow from outside to inside
- (9) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

