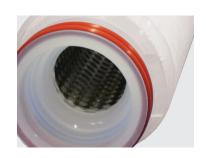
### 

#### sterile air membrane filters







## pharmaceutical grade process filters for critical processes requiring integrity validation

The nano P¹ range of sterile membrane process filters are fabricated from polished 304 or 316 stainless steel for critical compressed air and gas applications in the pharmaceutical, high tech manufacturing, food processing and beverage industries.

Thisrange encompasses ten models with connections from ¼" to 3" and rated flows from 40 to 702 scfm.

Specifically designed for absolute particulate and bacteria retention in sterile environments, these filters are ideally suited for pharmaceutical protocols where documentation and integrity are critical.

The PTFE membrane filtration media is housed in a polypropylene element which incorporates a positive double o-ring click-lock seal and is 100% integrity tested for reliable performance.

# absolute bacteria & particulate retention for critical integrity

With high efficiency and low pressure drop, filters provide efficient, cost effective performance for absolute validated filtration in compressed air or gas prior to incidental product contact. There is no better filter for your critical process filtration needs.



#### applications include:

pharmaceuticals

biotechnology

food processing

beverage

dairy

hospitals

nano-purification solutions llc charlotte, north carolina united states

**nano-purification solutions** st. catharines, ontario canada

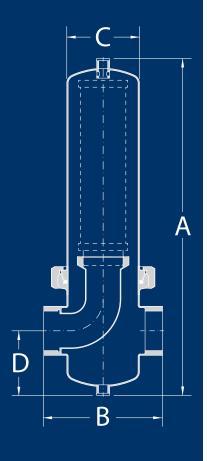
nano-purification solutions ltd gateshead, tyne and wear united kingdom

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



## technical specification

			ted ow <sup>(1)</sup>		dimensions (inches)				replacement element	
		scfm	Nm³/h	Α	B (2)	С	D	lbs	part no.	
PF 0050 SM-N	1/4"	40	68	9.45	4.14	2.76	2.24	4.2	E 102 SM	
PF 0065 SM-N	3/8"	50	85	9.45	4.14	2.76	2.24	4.4	E 102 SM	
PF 0085 SM-N	1/2"	55	93	9.45	4.25	2.76	2.24	4.6	E 102 SM	
PF 0120 SM-N	3/4"	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			standa	rd		optional				
design operating pressure i	0 to 232				-					
inlet & outlet connections			NPT(F)				tri-clamp sanitary			
drain & vent connections				1/4" BS	PP		-			
filter housing material				1.4301 qu 4 stainles			1.4404 quality 316L stainless steel			
filter housing polishing			passivated & polished to grade Ra <1.6um					-		
filter housing seals				aseptic El	consult factory					
element performance	SM									
particle removal (at 100% F	0.01 micron									
continuous operating temp	35 to 140°F									
maximum sterilizing tempe	257°F									
media material	hydrophobic PTFE membrane									
media support & endcap m	polypropylene									
element to housing connec	positive click lock with dual silicone o-rings									
prossure correction for	actors									
pressure correction factors operating pressure (psig) 60 70			85	100	115	145	175	205	2	
operating pressure (psig)	60									
correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1	

- (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 documentation available on request
- not for use in air or gas streams containing water or oil
- all materials conform to 21CFR Part 177 of the US code of Federal Regulations and USP Class VI Biological test for plastics
- air flow from outside to inside

