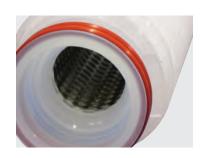
PURIFICATION SOLUTIONS

Sterile Air Depth Filters







Stainless steel process filters for bio-burden reduction in compressed air and gas

The nano P-Series¹ range of sterile depth process filters are fabricated from polished 304 or 316 stainless steel for critical compressed air and gas applications in the high tech manufacturing, food processing, and beverage industries.

This range encompasses ten models with connections from 1/4" to 3" and rated flows from 50 to 1150 scfm.

Specifically designed for particulate and bacteria retention in sterile environments, these filters are ideally suited for process applications such as food and beverage facilities with washdown requirements.

The non-woven depth pleated polypropylene elements incorporate a positive double o-ring click-lock seal and are 100% integrity tested prior to shipment for reliable performance.

High performance filtration for sterile process applications

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



Applications Include:

Food Processing

Beverage

Dairy

Biotechnology

Hospitals

Packing Industry

nano-purification solutions

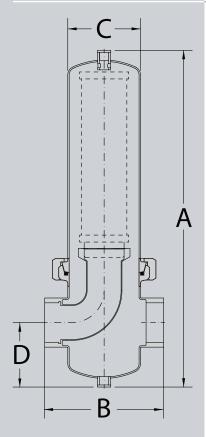
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Technical Specification

Filter Model	Inlet & Outlet	Rated Flow ⁽¹⁾			Dimer (incl	Approx. Weight	Replacement Element		
	NPT(F)	scfm	Nm³/h	Α	B (2)	С	D	lbs	Part No.
PF 0050 SD-N	1/4"	50	85	9.45	4.14	2.76	2.24	4.2	E 102 SD
PF 0065 SD-N	3/8"	65	110	9.45	4.14	2.76	2.24	4.4	E 102 SD
PF 0085 SD-N	1/2"	85	144	9.45	4.25	2.76	2.24	4.6	E 102 SD
PF 0120 SD-N	3/4"	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 0295 SD-N	1 ½"	295	501	12.70	5.51	3.35	3.49	11.4	E 105 SD
PF 0460 SD-N	2"	460	782	19.02	6.70	4.10	3.64	12.1	E 110 SD
PF 0680 SD-N	2"	680	1156	29.37	6.70	4.10	3.64	15.0	E 120 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				0 to 362 psig				
inlet & outlet connections			NPT(F)				tri-clamp sanitary				
drain & vent connections			1/4" BSPP				-				
filter housing material			1.4301 quality 304 stainless steel				1.4404 quality 316L stainless steel				
filter housing polishing				passivated & polished to grade Ra <1.6um				-			
filter housing seals			aseptic EPDM				consult factory				
element performance	e					SD					
particle removal (at 100% pleated depth PP)				0.3 microns							
continuous operating temperature range				35 to 120°F							
maximum sterilizing tempe	rature (3)					257°F					
media material				polypropylene ⁽⁴⁾							
media support & endcap material				polypropylene							
element to housing connection				positive click lock with dual silicone o-rings							
pressure correction fa	actors										
operating pressure (psig)	60	70	85	100	115	145	175	205	23		
obergenig bressere (bai9)											
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) Hydrophobic graded porosity non-woven depth pleated.
- Validation documentation available on request.
- Differential pressure gauge 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.