

Stainless Steel Industrial Filters



High efficiency stainless steel industrial filters for critical process applications & caustic environments

The nano P-Series¹ range of industrial 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 the efficient and effective removal of contaminants in sterile or caustic environments, these filters are ideally suited for process applications such as food and beverage facilities with washdown requirements.

The unique interchangeable borosilicate microfiber elements incorporate stainless steel support media and a positive double o-ring click-lock seal to ensure optimal filtration integrity.

High performance filtration for industrial process facilities

With high efficiency low pressure drop performance and a choice of adsorbing, coalescing and particulate elements, there is no better filter for your industrial process needs.



Applications Include:

High Tech Manufacturing

Food Processing

Beverage

Oil & Gas

Chemical

Military

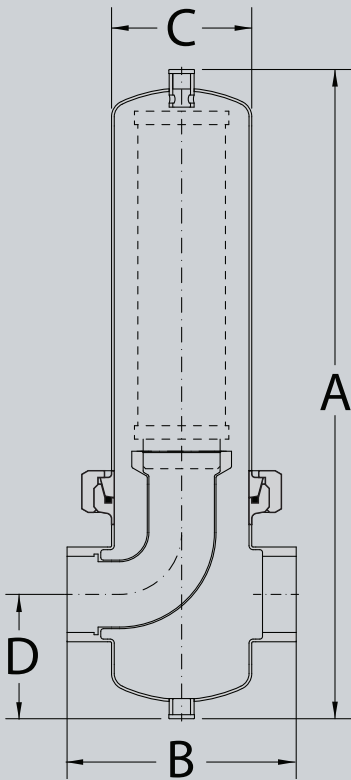
nano-purification solutions

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Technical Specification

Filter Model	Inlet & Outlet	Rated Flow ⁽¹⁾		Dimensions (inches)				Approx. Weight	Replacement Element
	NPT(F)	scfm	Nm ³ /h	A	B ⁽²⁾	C	D	lbs	Part No.
PF 0050 (grade) -N	1/4"	50	85	9.45	4.14	2.76	2.24	4.2	E 102 (grade)
PF 0065 (grade) -N	3/8"	65	110	9.45	4.14	2.76	2.24	4.4	E 102 (grade)
PF 0085 (grade) -N	1/2"	85	144	9.45	4.25	2.76	2.24	4.6	E 102 (grade)
PF 0120 (grade) -N	3/4"	120	204	9.45	4.92	2.76	2.24	5.1	E 102 (grade)
PF 0170 (grade) -N	1"	170	289	11.40	4.92	3.35	2.78	7.3	E 105 (grade)
PF 0295 (grade) -N	1 1/2"	295	501	12.70	5.51	3.35	3.49	11.4	E 105 (grade)
PF 0460 (grade) -N	2"	460	782	19.02	6.70	4.10	3.64	12.1	E 110 (grade)
PF 0680 (grade) -N	2"	680	1156	29.37	6.70	4.10	3.64	15.0	E 120 (grade)
PF 0850 (grade) -N	2 1/2"	850	1444	29.53	7.17	4.10	3.80	15.2	E 120 (grade)
PF 1150 (grade) -N	3"	1150	1954	40.04	7.17	4.10	3.96	19.4	E 130 (grade)



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	-
differential pressure indicator / gauge	-	on request
filter housing material	304 stainless steel	316 stainless steel

element performance	M1	M01	AC
maximum particle size (ISO Class) ⁽³⁾	2	1	1
maximum oil content (ISO Class) ⁽³⁾	2	1	1
particle removal (microns)	1	0.01	-
max oil carry over at 68°F (ppm or mg/m ³)	0.1	0.01	0.003
oil removal efficiency at 68°F	>99.99%	>99.999%	-
recommended operating temp range (°F)	35 - 212	35 - 450	35 - 77
design operating temperature range (°F)	35 - 248	35 - 450	35 - 122
pressure drop - clean	1.0 psid	1.5 psid	1.85 psid
maximum element life	12 months or 8000 hours		6 months or 1000 hrs

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) Per ISO 8573-1:2001 (E)

- Install with air flow from inside to outside for coalescing and from outside to inside for dry dust filtration.