



HEAT nano P1

stainless steel industrial filters

50 to 1150 scfm

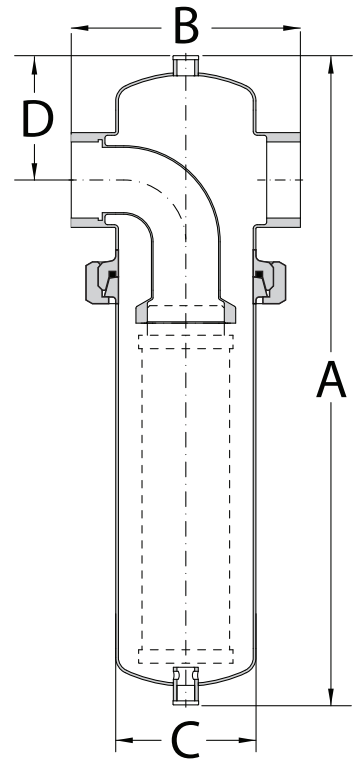
nano P1 stainless steel industrial filters are designed for critical compressed air and gas applications in high tech manufacturing, food processing, caustic, marine or any aggressive environments. There is no better filter for your critical industrial filtration needs.

filter model	replacement element	inlet & outlet	rated flow ⁽¹⁾		dimensions (inches)				approx. weight
	part no.		NPT(F)	scfm	Nm ³ /h	A	B ⁽²⁾	C	D
PF 0050 (grade) -N	E 102 (grade)	1/4"	50	85	9.45	4.14	2.76	2.24	4.2
PF 0065 (grade) -N	E 102 (grade)	3/8"	65	110	9.45	4.14	2.76	2.24	4.4
PF 0085 (grade) -N	E 102 (grade)	1/2"	85	144	9.45	4.25	2.76	2.24	4.6
PF 0120 (grade) -N	E 102 (grade)	3/4"	120	204	9.45	4.92	2.76	2.24	5.1
PF 0170 (grade) -N	E 105 (grade)	1"	170	289	11.40	4.92	3.35	2.78	7.3
PF 0295 (grade) -N	E 105 (grade)	1 1/2"	295	501	12.70	5.51	3.35	3.49	11.4
PF 0460 (grade) -N	E 110 (grade)	2"	460	782	19.02	6.70	4.10	3.64	12.1
PF 0680 (grade) -N	E 120 (grade)	2"	680	1156	29.37	6.70	4.10	3.64	15.0
PF 0850 (grade) -N	E 120 (grade)	2 1/2"	850	1444	29.53	7.17	4.10	3.80	15.2
PF 1150 (grade) -N	E 130 (grade)	3"	1150	1954	40.04	7.17	4.10	3.96	19.4

specifications	standard	optional
design operating pressure range	0 to 232 psig	-
inlet & outlet connections	NPT(F)	tri-clamp sanitary
drain & vent connections	1/4" BSPP	-
differential pressure indicator / gauge	-	on request
filter housing material	1.4301 quality 304 stainless steel	1.4404 quality 316L stainless steel

element performance	M1	M01	AC
maximum particle size (ISO Class) ⁽³⁾	2	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%	>99.99%	-
recommended operating temp range (°F)	35 to 212	35 to 212	35 to 77
design operating temperature range (°F)	35 to 248	35 to 248	35 to 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 factor table above
- (2) +/- 0.118"
- (3) per ISO 8573-1:2010
- (4) install with air flow from inside to outside for coalescing and from outside to inside for dry dust filtration



Activated Carbon filters must always be installed immediately downstream of a M01 coalescing filter. They will not remove carbon monoxide (CO) or carbon dioxide (CO₂) and are not suitable for breathing air applications. The life of the element decreases as the inlet temperature increases. They are not recommended for temperatures above 77°F. As a maximum, activated carbon elements should be replaced every 1000 hours or 6 months, whichever is shorter.

P1 culinary steam filters

75 to 4250 lbs/hr



nano P1 stainless steel culinary steam filters are specifically designed to provide culinary grade steam to the food and beverage industry. The 100% integrity tested stainless steel mesh elements provide efficient particulate removal surpassing 3A culinary specifications for direct food contact.

filter model	replacement element	inlet & outlet NPT(F)	rated flow ⁽¹⁾ lbs/hr	dimensions (inches)				approx. weight lbs
	part no.			A	B ⁽²⁾	C	D	
PF 0050 SP-N	E 102 SP	1/4"	75	9.45	4.14	2.76	2.24	4.2
PF 0065 SP-N	E 102 SP	3/8"	100	9.45	4.14	2.76	2.24	4.4
PF 0085 SP-N	E 102 SP	1/2"	125	9.45	4.25	2.76	2.24	4.6
PF 0120 SP-N	E 102 SP	3/4"	300	9.45	4.92	2.76	2.24	5.1
PF 0170 SP-N	E 105 SP	1"	500	11.40	4.92	3.35	2.78	7.3
PF 0295 SP-N	E 105 SP	1 1/2"	950	12.70	5.51	3.35	3.49	11.4
PF 0460 SP-N	E 110 SP	2"	1500	19.02	6.70	4.10	3.64	12.1
PF 0680 SP-N	E 120 SP	2"	2100	29.37	6.70	4.10	3.64	15.0
PF 0850 SP-N	E 120 SP	2 1/2"	2600	29.53	7.17	4.10	3.80	15.2
PF 1150 SP-N	E 130 SP	3"	4250	40.04	7.17	4.10	3.96	19.4

specifications	standard	optional
design operating pressure range	0 to 232 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	SP
particle removal	1 micron
particle removal efficiency	99%
continuous operating temperature range	212 to 392°F
media material	pleated 304 stainless steel mesh
media support & endcap material	304 stainless steel
element to housing connection	positive click lock dual EPDM o-rings
differential pressure - clean	1.0 psid

pressure correction factors								
operating pressure (psia)	15	30	45	60	75	90	100	120
correction factor	0.04	0.20	0.36	0.52	0.68	0.84	1	1.20

- (1) at 100 psia and 80ft/sec flow velocity. For all other pressures, refer to the pressure correction factor table above
- (2) +/- 0.118"
- (3) steam flow from outside to inside

