

stainless steel industrial filters

FEATURES

- high efficiency stainless steel industrial filters for critical process applications and caustic environments
- high efficiency and low pressure drop
- encompasses 10 models with connections from ¼" to 3" and rated flows from 50 to 1150 scfm
- choice of adsorbing, coalescing and particulate elements
- specifically designed for the efficient and effective removal of contaminants
- ideally suited for process applications such as food and beverage facilities with washdown requirements
- interchangeable borosilicate microfiber elements
- applications include high tech manufacturing, food processing, beverage, oil & gas, chemical and military



unique elements

incorporate stainless steel support media and a positive double o-ring click-lock seal to ensure optimal filtration integrity



SS housings

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



nano-purification solutions llc
charlotte, north carolina
united states

nano-purification solutions penn
new bethlehem, pennsylvania
united states

nano-purification solutions
st. catharines, ontario
canada

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

nano-purification solutions GmbH
krefeld, germany

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

SPECIFICATIONS

filter model	inlet & outlet	rated flow ⁽¹⁾		dimensions (inches)				approx. weight	replacement element
	NPT	scfm	Nm³/h	A	B ⁽²⁾	C	D	lbs	
PF 0050 (grade) -N	¼"	50	85	9.45	4.14	2.76	2.24	4.2	E 102 (grade)
PF 0065 (grade) -N	⅜"	65	110	9.45	4.14	2.76	2.24	4.4	E 102 (grade)
PF 0085 (grade) -N	½"	85	144	9.45	4.25	2.76	2.24	4.6	E 102 (grade)
PF 0120 (grade) -N	¾"	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 ½"	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 ½"	850	1444	29.53	7.17	4.10	3.80	15.2	E 120 (grade)
PF 1150 (grade) -N	3"	1150	1150	40.04	7.17	4.10	3.96	19.4	E 130 (grade)

specifications	standard	optional
design operating pressure range	0 to 232 psig	-
inlet & outlet connections	NPT (F)	tri-clamp sanitary
drain & vent connections	¼" 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/m³)	0.1	0.01	0.003
oil removal efficiency at 68°F	>99.99%	>99.999%	-
recommended operating temp range	35 to 212°F	35 to 212°F	35 to 77°F
design operating temperature range	35 to 248°F	35 to 248°F	35 to 122°F
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 8573-1:2010
(4) install with air flow from inside to outside for coalescing and from outside to inside for dry dust filtration
(5) technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182

