

## 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 6 models with connections from ½" to 3" NPT and rated flows from 85 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 and 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  
charlotte, north carolina  
united states

nano-purification solutions  
new bethlehem, pennsylvania  
united states

nano-purification solutions  
st. catharines, ontario  
canada

nano-purification solutions  
gateshead, tyne and wear  
united kingdom

nano-purification solutions  
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 <sup>(1)</sup>		dimensions (inches)				approx. weight	replacement element
	NPT	scfm	Nm <sup>3</sup> /h	A	B <sup>(2)</sup>	C	D	lbs		
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 0460 (grade) -N	2"	460	782	19.02	6.70	4.10	3.64	12.1	E 110 (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	-
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) <sup>(3)</sup>	2	1	-
maximum oil content (ISO Class) <sup>(3)</sup>	2	1	1
particle removal (microns)	1	0.01	-
max oil carry over at 68°F (ppm or mg/m <sup>3</sup> )	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

