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## Compressed Air/Gas Filters



For over 40 years,  
Pneumatech products  
have provided complete  
solutions for all of our  
customers' filtration  
needs. Today, we're very  
proud to continue that  
legacy with our newest  
line of enhanced filtration  
systems and replacement  
elements – all in stock  
and ready to ship.

## B E N E F I T S

- Quick and easy push-to-fit element installation.
- Push to fit elements up to 460 scfm. Secure tie rods from 600 to 1500 scfm.
- O-ring seals eliminate any possibility of oil carryover
- Audible pressure indicating alarm warns you if the unit is not depressurized prior to element change
- Pressure differential indicator standard– helps secure replacement element in a timely manner
- Filter model # indicates flow, type and connection size making sizing units much easier than in the past
- New functional, foam color wrap gives element a finished look
- Installed float drain is standard on all except adsorber filters.

## APPLICATIONS



### COALESCER

Pneumatech's new style coalescing filter has an even greater coalescing efficiency than before, eliminating the need for a "Grade 4" element. Our "C" style coalescer is the standard for coalescing efficiency at 99.981% efficient. The element wrapping is **red** and it is used as a pre-filter to a desiccant or refrigerant dryer or when removal of liquid aerosols and suspended fines is required. Also used for the protection of control systems, painting systems and critical air conveying.



Our "C1" element is our 1 micron coalescer and is the equivalent of our old Grade 8 or Grade 10 elements. **Green in color**, this coalescer is normally used as a pre-filter to a C series grade filter to extend its life. Used to remove gross amounts of water and oil, or tenacious aerosols that are difficult to drain.

All of our new filters still have the same "deep sump capacity" that give our filters a huge silent zone to be able to drain away coalescing effluent efficiently.



### PARTICULATE

Our new Particulate Filter offering is better than ever before with a new finer grade particulate filter that we have not been able to offer until now. Our standard 3 micron particulate filter is still using our "P" designation and is **yellow in color**. It is normally installed on the outlet of desiccant dryers to remove all traces of desiccant dust. It is ideal as a pre-filter for coalescing filters (series C & C1), and for vacuum pumps, and pneumatic blowing systems.



Our finer grade particulate or "P1" filter is a 1 micron particulate filter. **Red in color**, this filter is installed where finer filtration is needed. It is a great point of use final particle filtration filter.



### ADSORBER

Our new Adsorber Filter has the same "A" designation as always. **Silver in color**, this activated carbon media filter is used primarily for vapor and odor elimination and to polish gas streams of final trace amounts of hydrocarbon contaminants. Applications include the pharmaceutical industry, dental offices, photographic workshops, and in packaging and galvanic treatment operations. This filter must be preceded by a "C" series coalescing filter.

# MEDIA SELECTION

## COALESCER FILTER MEDIA (OIL REMOVAL)

Grade Designation	Description	Coalescing Efficiency	Maximum Oil Carryover	Micron Rating	Pressure Drop (PSID) @ Rated Flow
<b>C</b>	Coalescing filter capable of separating residual oil and extremely small particles down to 0.01 micron. It produces air technically free from oil.	99.981%	.008	.01	1.3
<b>C/ G10</b>	Coalescing filter capable of separating residual oil and extremely small particles down to 1 micron. /H extension indicates hi-temp element.	95%	.83	1.0	.5
<b>C1</b>	Coalescing filter capable of separating emulsion and particles down to 1 micron, liquid and oil included. Maximum contents of residual oil 0.1 mg/m3.	98.5%	.2	1.0	.43

Color of letters above corresponds to color of foam wrap around elements

Test Method: Independent Laboratory Aerosol Retention Efficiency Test per CAGI ADF-480 at 47ppm inlet.

## PARTICULATE FILTER MEDIA (PARTICULATE REMOVAL)

Grade Designation	Description	Micron Rating	Pressure Drop (PSID) @ Rated Flow
<b>P</b>	Particulate filter capable of separating particles down to 3 micron.	3.0	0.29
<b>P1</b>	Particulate filter capable of separating particles down to 1 micron.	1.0	1.0

Color of letters above corresponds to color of elements

## ADSORBER FILTER MEDIA (VAPOR REMOVAL)

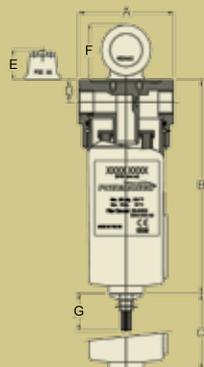
Grade Designation	Description	Micron Rating	Pressure Drop (PSID) @ Rated Flow
<b>A</b>	Activated carbon filter for the elimination of hydrocarbon vapor and odor. When installed after a C series grade filter, it lowers the maximum contents of residual oil to 0.005 mg/m3.	.005	1.01

Special Note: Activated charcoal adsorbers should always be preceded by a "C" grade coalescer. F-style ASME housings use only grade designations shaded above. C/G10 is only available in ASME housings. Use C1 grade for all P-style housings.

# SPECIFICATIONS

## P-STYLE HOUSINGS

- Max Pressure:** 232 PSIG (16 bar)  
**Max Temp.:** 150°F (65°C)  
 Adsorbers max working temp  
 100°F (38°C)
- Seals:** O-ring  
**Materials:** Aluminum  
**Coatings:** Anti-corrosion treatment;  
 Powder coated exterior  
**Design:** In-line threaded bowl to head



E = 1.4 in (35mm)

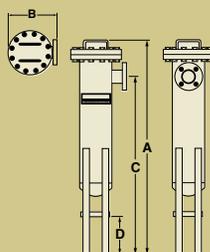
F = 3.3 in (83mm)

G = 1.3 in (34mm)

NOTE:  
 "C" dimension indicates minimum  
 clearance for element removal.

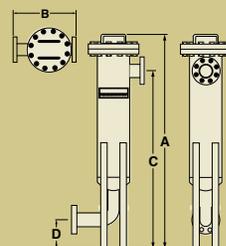
## ASME F-STYLE HOUSINGS

- Max Pressure:** 150 PSIG (10 bar)  
**Max Temp.:** 175°F (79°C) with option to  
 450°F (232°C) for Coalescers  
 and 350°F (177°C) for Particulate
- Seals:** Nitrile standard / Viton optional  
**Materials:** Carbon Steel Housing  
**Coatings:** Primer with Enamel Finish Coat  
**Design:** ASME coded and stamped vessel



**Housing A**

F12 -280-51  
 F16 -250-85  
 F16 -360-85



**Housing B**

F16 -280-51  
 F24 -250-85  
 F24 -360-85

## Flow rates and Dimensions

Model	SCFM (Nm3/h)	SCFM (Nm3/h)	Connections (NPT)	Dimensions inches (mm)				Approx. Weight lbs (kg)
				A	B	C	D	
P1.5 □-35	35 (55)		3/8"	3.5 (88)	7.4 (187)	2.4 (60)	0.8 (21)	2.2 (1.0)
P2 □-50	50 (79)		1/2"	3.5 (88)	7.4 (187)	2.4 (60)	0.8 (21)	2.2 (1.0)
P3 □-75	75 (119)		3/4"	3.5 (88)	10.1 (256)	3.2 (80)	0.8 (21)	2.4 (1.1)
P4 □-120	120 (190)		1"	4.9 (125)	10.3 (262)	3.9 (100)	1.3 (33)	5.3 (2.4)
P4 □-200	200 (317)		1"	4.9 (125)	14.3 (362)	4.7 (120)	1.3 (33)	6.4 (2.9)
P6 □-300	300 (475)		1 1/2"	4.9 (125)	17.8 (452)	5.5 (140)	1.3 (33)	7.9 (3.6)
P6 □-460	460 (728)		1 1/2"	4.9 (125)	25.3 (643)	6.3 (160)	1.3 (33)	10.4 (4.7)
P8 □-600	600 (950)		2"	6.4 (163)	27.4 (695)	20.5 (520)	1.9 (48)	19.0 (8.6)
P8 □-900	900 (1425)		2"	6.4 (163)	36.8 (935)	30.3 (770)	1.9 (48)	25.8 (11.7)
P12 □-1250	1250 (1979)		3"	9.8 (248)	42.1 (1070)	30.7 (780)	2.9 (74)	61.1 (27.7)
P12 □-1500	1500 (2375)		3"	9.8 (248)	42.1 (1070)	30.7 (780)	2.9 (74)	61.1 (27.7)

Element Style:	C&A	P & C/G10						
F12 □-280-51	1500 (2375)	2500 (3958)	3" FLG	59.75 (1518)	15.06 (383)	50.00 (1270)	12.00 (305)	165 (74.8)
F16 □-280-51	1500 (2375)	2500 (3958)	4" FLG	59.75 (1518)	17.13 (435)	50.00 (1270)	8.50 (216)	175 (79.4)
F16 □-250-85	2000 (3166)	3300 (5224)	4" FLG	60.00 (1524)	21.38 (543)	50.25 (1276)	15.00 (381)	320 (145.1)
F24 □-250-85	2000 (3166)	3300 (5224)	6" FLG	61.50 (1562)	25.50 (648)	50.00 (1270)	9.50 (241)	360 (163.3)
F16 □-360-85	3000 (4749)	5000 (7915)	4" FLG	75.38 (1915)	21.38 (543)	64.00 (1626)	15.00 (381)	385 (174.6)
F24 □-360-85	3000 (4749)	5001 (7915)	6" FLG	74.50 (1892)	25.50 (648)	63.00 (1600)	9.50 (241)	420 (190.5)

□ = Insert grade letter for model number. Filter sizes available to 20,000 CFM,C/F.

## Correction factor (CF) for operating pressure changes:

Inlet air pressure Psig	14.5	29.0	43.5	58.0	72.5	87.0	101.5	116.0	130.5	145.0	159.5	174.1	188.6	203.1	217.6	232.1
	[bar]	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]
CF	0.25	0.38	0.50	0.65	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

Filter Size = Flow Rate ÷ CF

Flow Rate of Filter = Filter Size x CF



## Standard components



Installed Float  
Drain Valve  
Standard  
(Except Adsorber)



Installed Differential  
Pressure Indicator  
Standard with  
35–200 Housings



Installed Differential  
Pressure Gauge -  
Standard with  
300–1250 Housings  
(shipped loose on  
1500 housing)



Differential  
Pressure Gauge -  
Standard with  
F-style housings  
(shipped loose),  
1/4" FNPT connections

(Available with dry  
contacts)



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