

Sullivan

Palatek®

Above & Beyond



Compressed Air & Gas Filtration

Why is Compressed Air Filtration Required?

In one cubic foot of atmospheric air, there are millions of particles that are potentially harmful to your machines and equipment. These particles are primarily made up of dust, bacteria, viruses, smoke, fumes, hydrocarbons, water, oil and other contaminants derived from human and industrial activities. Roughly 80% of the contaminants are so small that they will easily pass through your compressors intake filter. When this air is drawn into the compressor intake and compressed to 100 PSIG the concentration of contamination is increased eight fold. The concentrated contaminants will easily find their way into your process lines, causing frequent and expensive downtime of your pneumatic equipment or adversely affect the quality of your products.

The incorporation of filtration into your compressed air system will produce benefits in both productivity and product quality.

Advanced Housing Features

- Bi-directional aluminum differential pressure gauge, which is standard on housings with 3/4" to 3" NPT connections.
- Aluminum housing with powder coated interior and exterior.
- Automatic float drain with manual override



Sullivan-Palatek Filter Grades

Sullivan-Palatek has developed a comprehensive range of filter grades to meet to the requirements of various compressed air and gas applications.



High Efficiency Coalescing

- High Quality Compressed Air Filtration
 - 99.9999% Efficiency
- Particle Removal Down to 0.01 Micron
 - Max. Oil Carryover 0.008 PPM w/w
 - Nominal Pressure Drop 1.2 PSID
 - ISO 8573 (Class 1)

Utility Grade Coalescing

- General Compressed Air Filtration
 - 99.999% Efficiency
- Particle Removal Down to 0.1 Micron
 - Max. Oil Carryover 0.4 PPM w/w
 - Nominal Pressure Drop 0.75 PSID
 - ISO 8573 (Class 2)



Particulate Filtration

- Particulate removal or coalescing prefiltration
 - 99.99% efficiency
- Particle removal down to 1 micron
- Nominal pressure drop 0.5 PSID



Carbon Adsorption Filtration

- High purity extended surface area activated carbon removes hydrocarbon mist and vapor.
- Max. Oil Carryover 0.002 PPM w/w
- Nominal Pressure Drop 1.2 PSID



Molecular Particle Range	Macro Molecular Particle Range	Micro Particle Range	Macro Particle Range
Carbon		Milled Flour	
	Paint Pigment	Water Mist	Beach Sand
Collodial Silica Particles	Oil Vapors		Human Hair
		Coal Dust	
Viruses	Bacteria		
	Tobacco Smoke		Pollen
0.01	0.1	1.0	10
			100
			1000

Micrometers = Microns = μm

Element Design that is *Above & Beyond*



- All Sullivan-Palatek filter elements utilize a pleated media design to increase surface area. The higher surface area decreases pressure drop and extends the elements contaminant holding capacity.
- Inner and outer stainless steel element retainer.
- Machined aluminum end caps to ensure a positive element to housing seal.

Condensate Drains



Semi Autodrain



Autodrain with manual override



External Autodrain

Model Number Nomenclature

Series		Connection		Bowl Length		Accessories		Element Grade	
XXX		XX		X		XX		X	
SPT	Inline T-Type	02	1/2"	1	Short	M	Manual Drain	H	High Efficiency Coalescing
SPAT	ASME T-Type	03	3/4"	2	Middle	G	Delta Pressure Gauge		Utility Grade Coalescing
SPAF	ASME F-Type	04	1"	3	Long			A	Auto Float Drain
		06	1-1/2"					P	Activated Carbon Adsorber
		08	2"					V	
		10	2-1/2"						
		12	3"						

Specifications & Dimensions

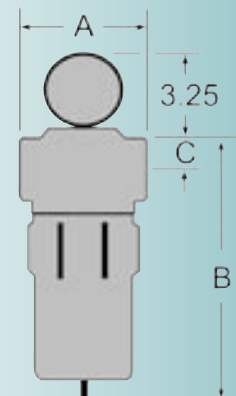
High Efficiency Coalescing	Utility Coalescing	Particulate	Activated Carbon	In/Out Conn.	Capacity In SCFM @		Dimensions				
					120 PSIG	100 PSIG	A	B	C	D	
Model #	Model #	Model #	Model #								
SPT-021A-H	SPT-021A-U	SPT-021M-P	SPT-021-V	1/2	29	25	3.4	6.9	0.8	2.4	
SPT-022A-H	SPT-022A-U	SPT-022M-P	SPT-022-V	1/2	41	35	3.4	8.2	0.8	3	
SPT-023A-H	SPT-023A-U	SPT-023M-P	SPT-023-V	1/2	55	47	3.4	8.2	0.8	3.5	
SPT-031GA-H	SPT-031GA-U	SPT-031GM-P	SPT-031G-V	3/4	82	70	3.4	11	0.8	3.5	
SPT-041GA-H	SPT-041GA-U	SPT-041GM-P	SPT-041G-V	1	136	116	5.1	12.4	1.7	5.3	
SPT-061GA-H	SPT-061GA-U	SPT-061GM-P	SPT-061G-V	1-1/2	236	201	5.1	16.3	1.7	9.3	
SPT-062GA-H	SPT-062GA-U	SPT-062GM-P	SPT-062G-V	1-1/2	374	318	5.1	20.2	1.7	13.2	
SPT-063GA-H	SPT-063GA-U	SPT-063GM-P	SPT-063G-V	1-1/2	553	470	5.1	28.1	1.7	20.7	
SPT-081GA-H	SPT-081GA-U	SPT-081GM-P	SPT-081G-V	2	724	616	6.5	32.4	1.9	20.5	
SPT-101GA-H	SPT-101GA-U	SPT-101GM-P	SPT-101G-V	2-1/2	1085	923	6.5	42.2	1.9	30.3	

Notes:

Capacity is in SCFM @ Specified Pressure & 100°F
 Dimensions are in inches
 Dimension "D" is minimum bowl removal clearance
 Connections are in NPT

SPT Series Housing Specifications:

Maximum Pressure: 235 PSIG
 Maximum Temperature: 140°F
 Housing Material: Aluminum
 Port Connection: NPT Standard
 Seals: Nitrile



Large Capacity ASME Housings

Large Capacity Filter Grades

HB = High Efficiency Coalescing with Pleated Prefilter

- General filtration 0.01 micron
 - 99.9999% Efficient
- Max. oil carryover 0.008 PPM w/w
- Nominal pressure drop 1.0 PSID

P = Particulate Filtration

- 99.99% Efficiency
- Particle removal down to 1.0 micron
- Nominal pressure drop 0.75 PSID

M = Mist Eliminator Coalescing Filter

- General filtration 0.01 micron
 - 99.97% efficient
- Max. oil carryover 0.09 PPM w/w
- Nominal pressure drop 0.5 PSID

A = Activated Carbon Adsorber

- High purity extended surface area activated carbon removes hydrocarbon mist and vapor.
- Max. Oil Carryover 0.002 PPM w/w

Specifications & Dimensions

Model Number	Capacity in SCFM @		In/Out	Housing Type	Height	Width
	120 PSIG	100 PSIG				
SPA-T123F-HB	1765	1500	3" Flg	T-Type	43.1	15
SPA-F123F-HB	1765	1500	3" Flg	Floor Mount	59.0	15
SPA-T161F-HB	2353	2000	4" Flg	T-Type	42.7	20
SPA-F161F-HB	2353	2000	4" Flg	Floor Mount	63.3	20
SPA-F241F-HB	3530	3000	6" Flg	Floor Mount	75.3	26
SPA-F242F-HB	5295	4500	6" Flg	Floor Mount	76.6	30
SPA-F321F-HB	7060	6000	8" Flg	Floor Mount	87.3	34
SPA-F401F-HB	12350	10500	10" Flg	Floor Mount	96.0	34
SPA-T123F-P	2941	2500	3" Flg	T-Type	43.1	15
SPA-F123F-P	2941	2500	3" Flg	Floor Mount	59.0	15
SPA-T161F-P	3918	3330	4" Flg	T-Type	42.7	20
SPA-F161F-P	3918	3330	4" Flg	Floor Mount	63.3	20
SPA-F241F-P	5860	4980	6" Flg	Floor Mount	75.3	26
SPA-F242F-P	8825	7500	6" Flg	Floor Mount	76.6	30
SPA-F321F-P	11715	9960	8" Flg	Floor Mount	87.3	34
SPA-F401F-P	20588	17500	10" Flg	Floor Mount	96.0	34
SPA-T123F-M	2059	1750	3" Flg	T-Type	43.1	15
SPA-F123F-M	2059	1750	3" Flg	Floor Mount	59.0	15
SPA-T161F-M	2706	2300	4" Flg	T-Type	42.7	20
SPA-F161F-M	2706	2300	4" Flg	Floor Mount	63.3	20
SPA-F241F-M	4000	3400	6" Flg	Floor Mount	75.3	26
SPA-F242F-M	6175	5250	6" Flg	Floor Mount	76.6	30
SPA-F321F-M	8235	7000	8" Flg	Floor Mount	87.3	34
SPA-F401F-M	14410	12250	10" Flg	Floor Mount	96.0	34
SPA-T123F-V	1765	1500	3" Flg	T-Type	43.1	15
SPA-F123F-V	1765	1500	3" Flg	Floor Mount	59.0	15
SPA-T161F-V	2353	2000	4" Flg	T-Type	42.7	20
SPA-F161F-V	2353	2000	4" Flg	Floor Mount	63.3	20
SPA-F241F-V	3530	3000	6" Flg	Floor Mount	75.3	26
SPA-F242F-V	5295	4500	6" Flg	Floor Mount	76.6	30
SPA-F321F-V	7060	6000	8" Flg	Floor Mount	87.3	34
SPA-F401F-V	12350	10500	10" Flg	Floor Mount	96.0	34



Floor Mount ASME Filter Housing

Notes:

Capacity is in SCFM @ Specified pressure & 100°F
 Maximum Pressure: 150 PSIG @ 225°F
 Materials: Carbon Steel Shell
 Seals: Inorganic Gasket
 Housings Meet ASME Section VIII Division 1
 Dimensions are in Inches

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