

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

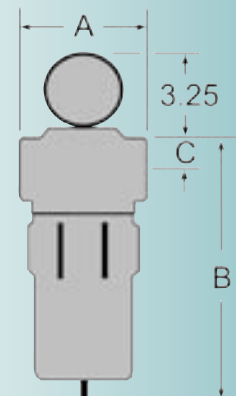
| High Efficiency Coalescing | Utility Coalescing | Particulate | Activated Carbon | In/Out Conn. | Capacity In SCFM @ | | Dimensions | | | | |
|----------------------------|--------------------|-------------|------------------|--------------|--------------------|----------|------------|------|-----|------|--|
| | | | | | 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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