



**Sullivan  
Palatek**

# SP FILTRATION

8-1500 SCFM (13-2550 Nm<sup>3</sup>/hr) \ PERFORMANCE VALIDATED COMPRESSED AIR & GAS FILTRATION



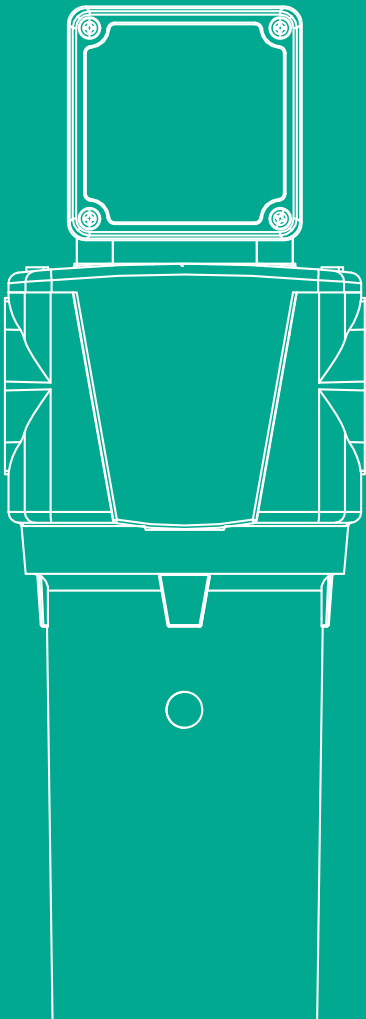
*Dependable by design.™*

## Clean and Dry

Clean and oil-free compressed air is easily achieved with the new range of performance validated compressed air and gas filters.

### They provide:

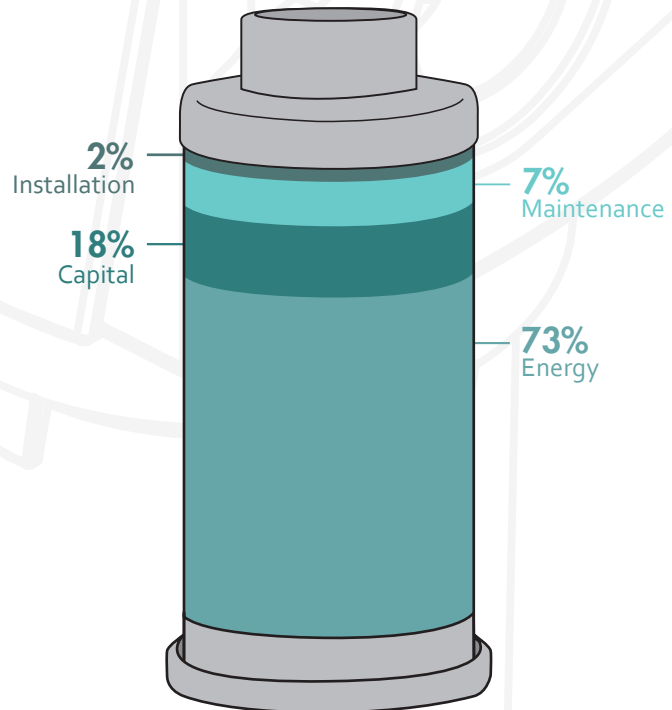
- » Improved filtration for your compressor room or point of use application
  - » Reliable and efficient liquid and particulate removal with low pressure drop
  - » Space saving design - no tie rod allows easy bowl removal
- Four element grades from 25 to 0.01 micron
- » Twenty-one models from 8 to 1500 scfm at 100 psig
  - » A comprehensive range of accessories for every application



## Energy Efficient

Having a well designed compressed air system with suitable air treatment and filtration is important, but so is monitoring and maintaining that system. Over the ten-year life of an air compressor the cost of energy to run the system far outweighs the capital investment of buying it. Maintenance costs account for only 7% of the total costs yet this is a crucial activity for maximizing the energy efficiency of any compressed air system. Repeated exposure to oil, vapor and particulate matter can, over time, cause the filter elements to become clogged. This creates an increase in pressure drop compromising not only performance but also resulting in an increase in energy cost.

### Life Cycle Costs



## Optimized Filtration

Every 10 psig of pressure drop represents a 5% increase in compressor energy costs. It is vital to observe a scheduled maintenance program which includes the replacement of filter elements. We recommend that filter elements are replaced at least every 12 months (6 months for activated carbon). All filters and elements are supplied with an element change out label which adheres to the filter housing and shows when the next change should take place.

# SP Filtration

## Filter Element Features

### Double Element O-Ring

prevents contaminant bypass

### Stainless Steel Cylinders

provide strength, rigidity & corrosion resistance

### Spiral Wound Inner Coil

provides extra strength on larger elements

### Deep Bed Filter Media

provides low differential pressure resulting in improved energy efficiency & long element life

### Hydrophobic & Oleophobic

borosilicate glass microfiber media repels oil & water for improved coalescing performance

### Anti Re-Entrainment Layer

optimizes liquid drainage & minimizes differential pressure

### Outer Drainage Layer

compatible with synthetic lubricants & prevents oil carry over

### Ultrasonic Seam Welded Elements

ensures element strength & integrity

### Air Distribution Duct

provides uniform air flow, resulting in lower differential pressure & improved filtration & flow dynamics

### Drop-Fit, Self Locating Elements

no tie rod simplifies element change out & reduces access requirements for bowl removal

### Corrosion Resistant Endcaps

color coded to provide easy & accurate filtration grade identification

### Lower Annular Location Ring

prevents element vibration, improves stability in reverse flow (dust removal) applications & improves drainage

## Filter Housing Features

### Extensive Range

ports from 1/4" to 3" in both NPT & BSP, & flow capacities up to 1500 scfm

### Compact Design

allows installation in confined spaces

### Modular Design

enables easy & compact installation of multiple filters

### Aluminum Die Cast Housing

pressure die casting provides enhanced strength & long life

### E-Coat™ Internal Coating

advanced process provides exceptional corrosion resistance

### Powder Coated Exterior

provides a tough and abrasion resistant surface

### Secure Bowl Connection

three full turns ensure head is safely connected to bowl

### High Nitrile Rubber Seals

provide enhanced resistance in challenging environments & applications

### Large Condensate Reservoir

provides a quiet zone for bulk oil collection

### Automatic Drain Standard

includes manual override for testing & depressurization

### Hexagon Spanner Locator

for simple bowl removal

### No Tie Rod

for minimum maintenance access

### Chemically Compatible Design

for use with all oil flooded or oil-free compressors





# SPF Compressed Air Filters

Filter Model	Inlet & Outlet	Rated Flow <sup>(1)</sup> scfm	Dimensions (Inches)				Approx. Weight lbs
	NPT		A	B	C	D	
SPF-0008-(grade)	¼"	8	1.97	0.71	5.98	2.36	0.7
SPF-0015-(grade)	¼"	15	1.97	0.71	5.98	2.36	0.7
SPF-0025-(grade)	¼"	25	2.75	0.98	7.52	2.76	1.3
SPF-0035-(grade)	⅜"	35	2.75	0.98	7.52	2.76	1.3
SPF-0050-(grade)	½"	50	2.75	0.98	9.13	2.76	1.5
SPF-0070-(grade)	½"	70	3.94	1.38	10.87	3.15	3.5
SPF-0085-(grade)	¾"	85	3.94	1.38	10.87	3.15	3.5
SPF-0090-(grade)	1"	90	3.94	1.38	10.87	3.15	3.5
SPF-0125-(grade)	¾"	125	3.94	1.38	15.59	3.15	4.4
SPF-0135-(grade)	1"	135	3.94	1.38	15.59	3.15	4.4
SPF-0175-(grade)	1"	175	3.94	1.38	15.59	3.15	4.4
SPF-0280-(grade)	1½"	280	4.80	1.65	18.11	3.15	6.2
SPF-0290-(grade)	1½"	290	4.80	1.65	18.11	3.15	6.2
SPF-0325-(grade)	1½"	325	4.80	1.65	18.11	3.15	6.2
SPF-0400-(grade)	1½"	400	5.75	2.05	18.98	3.94	9.2
SPF-0450-(grade)	2"	450	5.75	2.05	18.98	3.94	9.2
SPF-0700-(grade)	2"	700	5.75	2.05	30.91	3.94	13.9
SPF-0850-(grade)	2½"	850	8.27	2.60	23.43	3.94	18.7
SPF-1000-(grade)	3"	1000	8.27	2.60	23.43	3.94	18.7
SPF-1250-(grade)	3"	1250	8.27	2.60	32.09	3.94	23.1
SPF-1500-(grade)	3"	1500	8.27	2.60	38.39	3.94	26.4

Element Grades	P	UC	C	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)	25	1	0.01	-
Max Oil Carry Over At 68°F (ppm or mg/m³)	10	0.1	0.01	0.003
Recommended Operating Temp Range (°F)	35 - 212	35 - 212	35 - 212	35 - 77
Design Operating Temperature Range (°F)	35 - 248	35 - 248	35 - 248	35 - 122

Specifications	SPF-0008 to 0015	SPF-0025 to 0050	SPF-0070 to 1500
Design Operating Pressure	0 - 232 psig	0 - 232 psig	22 - 232 psig <sup>(2)</sup>
Automatic Float Drain	Yes	Yes	Yes
Differential Pressure Indicator	No	Yes	Yes

Pressure Correction Factors									
Operating Pressure (psig)	60	70	85	100	115	145	175	205	235
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 factor table above.

(2) For pressures below 22 psig a different condensate drain is required. Contact us.

(3) Per ISO 8573.1:2001 (E)



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Specifications and designs are subject to change without notice. Machines may be shown with optional equipment.

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