SP FILTRATION

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

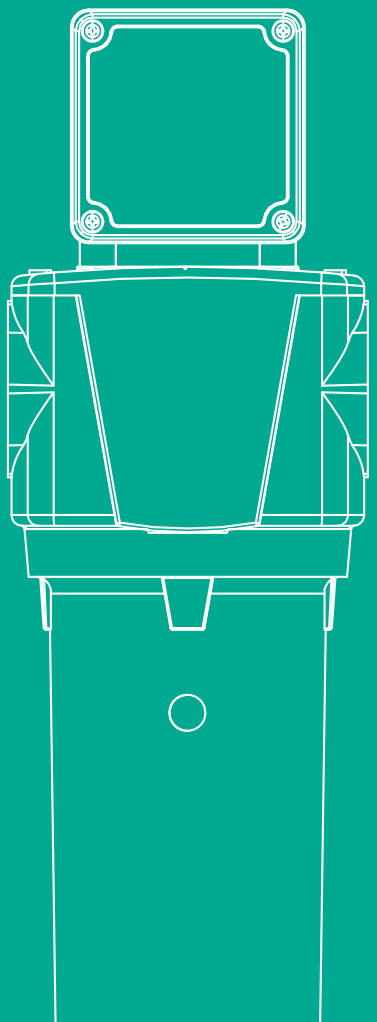
Clean and Dry

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

They provide:

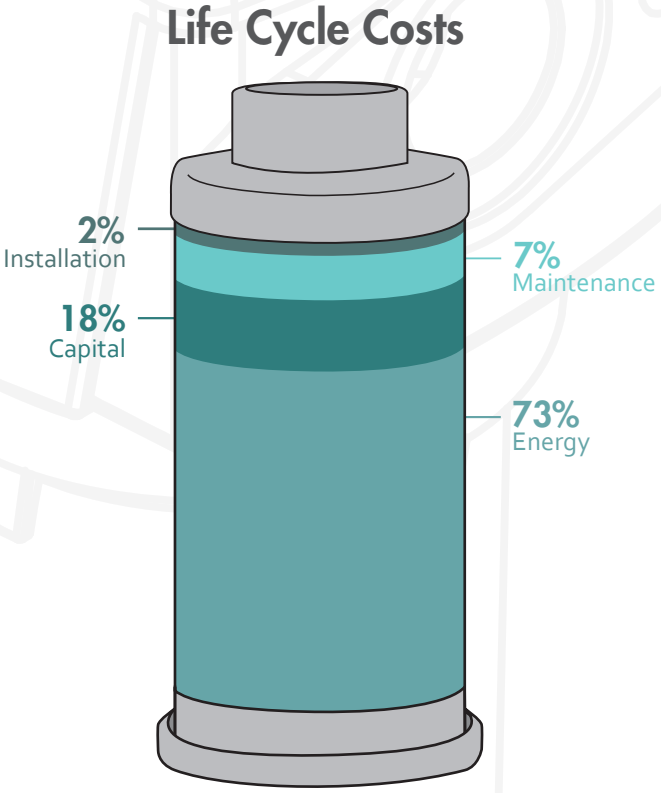
- Improved filtration for your compressor room or point of use application
- Reliable and efficient liquid and
- particulate removal with low pressure drop
- Space saving design - no tie rod allows easy bowl removal

  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.



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

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

Extensive Range
ports from ¼" 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 [1]	Dimensions (Inches)				Approx. Weight
	NPT	scfm	A	B	C	D	lbs
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)	1¼"	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) [3]	-	2	1	-
Maximum Oil Content (ISO Class) [3]	-	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 [2]
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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