

You Need Pure Compressed air & gas

If compressed air & gas is the energy source behind your production, you depend on its economic and efficient operation. Every cubic meter of air contains as many as 140 million particles of dirt. These particles, mixed with water vapor and hydrocarbon vapor from unburnt fuel and industrial processes, are drawn into the compressor and concentrated under compression. After compression, as of these contaminants can combine in the piping system with condensed moisture, pipe scale and rust, creating a damaging abrasive emulsion. NSEC, has developed a perfectly matched filter system, which reduces all type of contamination right from the source according to your individual requirement.

FSP grade to meet your compressed air quality needs.

- P- Grade : Particulate filter for dust protection, removal particles down to 3 micron including liquid (water and oil) and solid particles.
- Z- Grade : coalescing filters for general purpose protection for removal of particles down to 1 micron including coalesced liquid water and oil, providing maximum remaining oil aerosol content of 0.5 mg/m3 @ 20°C.
- X- Grade : Super fine high efficiency coalescing filter for removal of particles down to 0.01 micron including coalesced liquid water and oil, providing maximum remaining oil aerosol content of 0.01 mg/m3 @ 20° C. (Precede grade X with Grade Z)
- S- Grade : Super fine high efficiency coalescing filter for removal of particle down to 0.01 micron including coalesced liquid water and oil, providing maximum remaining oil aerosol content of 0.001 mg/m3 @ 20°
- C- Grade : Activated carbon filter for removal of oil vapor and hydrocarbon odour giving a maximum remaining oil content of < 0.003 mg/m3 @ 20° C (Precede C with Grade Z & X)



COMPRESSED AIR QUALITY TO ISO 8573.1

Class	Solid Particles Maximum number of particles per m ³			Water Pressure Dewpoint°C	Oil (Incl. Vapor) mg/m3
	0.1-0.5 micron	0.5-1.0 micron	1.0-5.0 micron		
1	100	1	0	-70	0.01
2	10,000	1,000	10	-40	0.1
3	-	10,000	500	-20	1
4	-	-	1,000	3	5
5	-	-	20,000	7	-
6	-	-	-	10	-

FSP filter housing

FSP supplies Micro filters in two housing formats :

G- Housing with threaded connection from G 1/4 to G 3

- High grade aluminum casting
- Alocrom in and outside to prevent corrosion
- Powder coated to ensure top outside quality finish

Both types of housings are built to the highest quality standards and have a double surface protection. The aluminum housings with alocrom and epoxy powder coating and the steel housings with intensive cleaning, polyester priming and acrylic paint.

Thanks to the attention to quality surface treatment, Filtrex offers a 10 year guarantee on the filter housings. This gives confidence to the user.



F-Flanged housings DN 80 to DN 300

- Welded mild steel vessels
- Sand blasted, cleaned and de-greased
- Polyester primed in and Acrylic paint outside



FSP filter elements

FSP Filters use machine wrapped elements, which form the heart of the filter. These pictures will illustrate the benefits of a Multiple wrapping filter. They have 3 to 4.5 times the high dirt holding capacity with respect to conventional filter elements and they deliver consistent quality as air/gas.



Have following benefits

- ▼ Lower velocity
- ▼ Lower differential pressure
- ▼ Better separation
- ▼ High dirt holding capacity
- ▼ Lower operating cost

RSG air filter specification

	Model	Inlet & Outlet Conn.	Capacity (m ³ / min)	App. Weight	Dimensions					Elements
					A	B	C	D	E	
T H R E A D E D	G-0017 (grade)	1/2"	1.0	1.1	89	42	160		95	L 017 (grade)
	G-0030 (grade)	1/2"	1.8	1.5	89	42	193		130	L 030 (grade)
	G-0058 (grade)	3/4"	3.5	2.5	120	58	252		172	L 058 (grade)
	G-0080 (grade)	1"	4.8	3.2	120	58	352		272	L 145 (grade)
	G-0125 (grade)	1 1/4"	7.2	3.2	120	58	352		272	L 145 (grade)
	G-0205 (grade)	1 1/2"	12.0	6.6	162	66.5	509.6		320	L 220 (grade)
	G-0220 (grade)	2"	13.2	6.6	162	74	424		320	L 220 (grade)
	G-0330 (grade)	2"	19.8	10.9	162	74	738		625	L 330 (grade)
	G-0405 (grade)	2 1/2"	24.0	12.9	200	90	488		400	L 430 (grade)
	G-0430 (grade)	3"	25.8	12.9	200	90	488		400	L 430 (grade)
	G-0620 (grade)	3"	40.0	17.5	200	90	749		625	L 620 (grade)
	G-145 (grade)	1 1/2"	8.7	3.2	120	58	352		272	L 145 (grade)
F L A N G E D	F-1000 (grade)	DN 100	60.0	115	493	263	1119	340	650	L 330 (grade)
	F-1300 (grade)	DN 125	80.0	150	617	290	1199	340	650	L 330 (grade)
	F-1950 (grade)	DN 150	120.0	195	617	300	1209	340	650	L 330(grade)
	F-2500 (grade)	DN 1200	156.0	240	666	343	1369	340	650	L 620 (grade)
	F-3250 (grade)	DN 200	200.0	425	736	368	1459	340	650	L 330 (grade) (2)
	F-4650 (grade)	DN 250	280.0	450	420	420	1583	340	650	L 330 (grade) (3)
	F-5200 (grade)	DN 250	312.0	515	850	433	1552	340	650	L 330 (grade) (4)
	F-7800 (grade)	DN 300	468.0	690	996	480	1739	340	650	L 330 (grade) (6)
	F-0205 (grade)	DN 40	12.0	35	162	182	667	340	650	L 220 (grade) (6)
	F-0220 (grade)	DN 50	13.2	35	162	182	667	340	650	L 220 (grade) (6)
	F-0330 (grade)	DN 50	19.8	45	162	182	967	340	650	L 330 (grade) (6)
	F-0430 (grade)	DN 80	25.8	60	90	215	823	340	650	L 430 (grade) (6)
	G-145 (grade)	1 1/2"	8.7	3.2	120	58	352		272	L 145 (grade) (6)

Capacity Correction Factor Various Operating Pressure

Pressure (bar g)	1	2	3	5	7	9	11	13	15	17	20
Correction Factor	0.38	0.53	0.65	0.85	1.0	1.13	1.25	1.36	1.46	1.56	1.7

Filter Element Performance

Filter Grade	Particle Removal Down to	Oil Removal Down 10*l	Nominal Initial Pressure Drop
P	3 micron		0.03 bar g
Z	1 micron	0.1 mg/m ³	0.05 bar g
X	0.01 micron	0.01 mg/m ³	0.09 bar g
S	0.01 micron	0.001 mg/m ³	0.10 bar g
C	Activated Carbon	0.003 mg/m ³	0.10 bar g

General Information

Maximum recommended operating temperature of 600° C (high temperature range is also available)
 Minimum recommended operating temperature 10° C.
 Maximum recommended operating pressure of 16 bar g.
 Maximum recommended pressure differential for element charge is 0.6 bar g. (Except Grade C)
 Material for G-Type filters housing is aluminum. Material for F-Type filters is steel.
 Filters come complete with auto drain. Gauges are optional.
 The Weight of the compressed air filters does not include packaging and gauge.
 High Pressure Filters also available upto 400 bars.

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