



Filter Solutions

Pneumatech offers you a comprehensive line-up of innovative filter solutions to meet your specific needs. Our filtration solutions are engineered cost-effectively to provide the best quality air and meet today's increasing quality demands.

For general applications we provide oil coalescing, particulate and oil vapor filters in a wide range of flows and pressures. Pneumatech is also your partner for breathing air, silicone-free, sterile & process filtration.

FP & FP HP -
Process Filters (incl. high pressure)

FP & FP HP - Process Filters (incl. high pressure)

Features & Benefits

- ▶ Enhanced high-grade stainless steel filter housing
 - Designed for applications with high risk of corrosion
 - High hygiene standards
- ▶ Advanced filter cartridge design
 - High filtration efficiency
 - Guaranteed performance over the entire lifetime
 - Low pressure drop
- ▶ Ultimate strength
- ▶ 100% integrity tested (DOP test)
- ▶ All components meet the FDA requirements for contact with food in accordance with the Code of Federal Regulations (CFR), title 21.
- ▶ Wide range of cartridges to suit application needs

General Specifications: FP 1-18

- ▶ Stainless Steel Process Filters
- ▶ Operating Pressure: 10-16 Bar / 145-232 PSI
- ▶ Operating temperature range¹: 0-150°C / 41-302°F
- ▶ Body Connections: DIN 11851 (Milk pipe connections)
- ▶ Surface Finish: Ra 1.6
- ▶ Inlet and outlet Connections: Threaded and flanged.

¹Operating temperature range can vary as per the filter element used.

General Specifications: HP 1-8

- ▶ High Pressure Stainless Steel Process Filters
- ▶ Operating Pressure: 50 Bar / 725 PSI
- ▶ Operating temperature range¹: 0-150°C / 41-302°F
- ▶ Body Connections: DIN 11851 (Milk pipe connections)
- ▶ Surface Finish: Ra 1.6
- ▶ Inlet and outlet Connections: Threaded

¹Operating temperature range can vary as per the filter element used.

FP & FP HP - Process Filters (incl. high pressure)





In process industries where the risk of corrosion of the compressed air system components is high, Pneumatech's FP 1-18 process filter range provides the right solution. The filter housing is made out of stainless steel grade 1,4301. The surface has been smoothed with advanced mechanical and electro-polishing techniques to a level of Ra 1,6. To avoid

micro-organism contamination between the filter head and bowl, these are connected by a milk pipe connection as per DIN 11851.

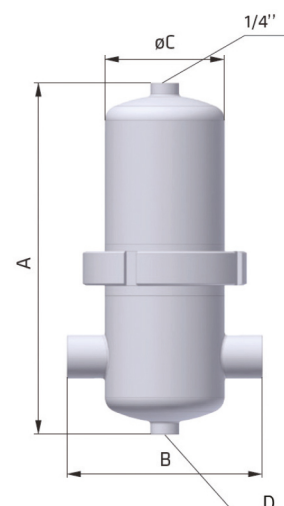
The filter cartridges are available in 4 different filtration grades for a wide variety of applications. All cartridges have been extensively tested to guarantee the best filtration efficiency over the entire cartridge lifetime.

Technical Specifications FP 1-18																			
Pneumatech Variant → Specifications ↓	Units	FP 1	FP 2	FP 3	FP 4	FP 5	FP 6	FP 7	FP 8	FP 9	FP 10	FP 11	FP 12	FP 13	FP 14	FP 15	FP 16	FP 17	FP 18
Flow ¹	m ³ /hr	75	105	150	225	315	420	600	900	1260	1680	2400	3600	5040	6720	9600	13440	17280	21120
	cfm	44	62	88	132	185	247	353	530	742	989	1413	2119	2966	3955	5650	7910	10171	12431
Operating Pressure	bar/psi	16/232	16/232	16/232	16/232	16/232	16/232	16/232	16/232	16/232	16/232	12/174	12/174	10/145	10/145	10/145	10/145	10/145	10/145
Connections	Inch	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2"	2 1/2"	3"	3"	DN100	DN100	DN150	DN150	DN200	DN200
Dimensions	A (mm)	202	232	230	254	275	337	386	457	583	740	1004	1029	986	1240	1311	1351	1496	1496
	A (inch)	8.0	9.1	9.1	10.0	10.8	13.3	15.2	18.0	23.0	29.1	39.5	40.5	38.8	48.8	51.6	53.2	58.9	58.9
	B (mm)	116	120	125	125	136	155	180	180	180	224	224	252	410	410	480	540	660	660
	B (inch)	4.6	4.7	4.9	4.9	5.4	6.1	7.1	7.1	7.1	8.8	8.8	9.9	16.1	16.1	18.9	21.3	26.0	26.0
	C (mm)	76.1	76.1	76.1	76.1	88.9	88.9	114.3	114.3	114.3	139.7	139.7	168.3	219.1	219.1	273	323.9	406.4	406.4
	C (inch)	3.0	3.0	3.0	3.0	3.5	3.5	4.5	4.5	4.5	5.5	5.5	6.6	8.6	8.6	10.7	12.8	16.0	16.0
	D	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1"	1"	1"	1"	1"
Mass	Kg	1.7	1.9	1.9	2	2.6	3	4.3	4.8	5.3	9	10.8	16.2	45	46	70	80	135	135
	Lbs	3.7	4.2	4.2	4.4	5.7	6.6	9.5	10.6	11.7	19.8	23.8	35.7	99.2	101.4	154.3	176.4	297.6	297.6

1. Flow is measured at Reference Conditions: 1 Bar(a) and 20°C

Technical specifications for FP HP 1-8									
Pneumatech Variant → Specifications ↓	Units	FP HP 1	FP HP 2	FP HP 3	FP HP 4	FP HP 5	FP HP 6	FP HP 7	FP HP 8
Flow ¹	m ³ /hr	150	225	315	420	600	900	1260	2400
	cfm	88	132	185	247	353	530	742	1413
Operating Pressure	bar/PSI	50/725	50/725	50/725	50/725	50/725	50/725	50/725	50/725
Connections	Inch	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2"	3"
Dimensions	A (mm)	231	253	274	336	387	453	580	1005
	A (inch)	9.1	10.0	10.8	13.2	15.2	17.8	22.8	39.6
	B (mm)	125	125	136	155	180	180	180	224
	B (inch)	4.9	4.9	5.4	6.1	7.1	7.1	7.1	8.8
	C (mm)	76.1	76.1	88.9	88.9	114.3	114.3	114.3	139.7
	C (inch)	3.0	3.0	3.5	3.5	4.5	4.5	4.5	5.5
	D	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Mass	kg	2.5	2.6	3.4	3.9	5.6	6.2	6.9	14.1
	Lbs	5.5	5.7	7.5	8.6	12.3	13.7	15.2	31.1

1. Flow is measured at Reference Conditions: 1 Bar(a) and 20°C



Correction factors																				
Operating pressure	Bar(g)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	20	30	40	50
	psi (g)	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232	100	290	435	725
Correction factor	Kp	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13	2,63	3,88	5,13	6,38



Pneumatech reserves the right to change or revise specifications and product design in connection with any features of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

© 2017 Pneumatech. All rights reserved.

