



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.

TF 1- 11 (S & HE) -
Threaded filters

TF 1 - 11 (S & HE) - Threaded filters

Features & Benefits

- ▶ Guaranteed air purity
 - High-efficient glass fiber and foam media
 - No risks of cracked filter media, cylinder implosion, top cap leakages or oil re-entrainment
- ▶ Significant energy savings
 - Optimal filter media selection allows low pressure losses
- ▶ Highest quality standards
 - In-house research, development & production
 - Each filter subjected to rigorous quality control
 - Fully tested and qualified according to ISO standards
- ▶ Robust design
 - Stainless steel cores guarantee ultimate strength
 - Protection paper to avoid damaging of glass fiber media
 - Anti-corrosive coated filter housing
- ▶ Easy service and installation
 - Push-on filter cartridges elements
 - Different grade, different color
 - Differential pressure gauge on HE range (indicator for sizes 1 to 3)

General Specifications

- ▶ Compressed air inlet pressure: 1-16 bar / 15-232 PSI
- ▶ Max. ambient air temperature: 66°C / 151 °F (35°C / 95 °F for V grade)
- ▶ Available grades:
 - G: general oil coalescing filtration
 - C: fine oil coalescing filtration
 - S: general dust filtration
 - D: fine dust filtration
 - V: oil vapor filtration
 - P: pre-filtration



Options



Wall mounting kit



Connection kit



Potential free contact



Zero-loss drain



Differential pressure gauge
(std. on HE range)



Pneumatech offers a comprehensive line-up of innovative filter solutions to meet your specific needs. Our state-of-the-art test facility allows to perform all tests according to ISO 8573 & ISO 12500 standards in-house. In this way we can optimize and validate our products to the maximum; and bring best-in-class filters to the market. From operations side, we distinct ourselves with our high level of automation and quality control in a triple certified manufacturing environment.

A filter is only as good as its weakest link. This explains our choices for two perforated stainless steel filter cores (strength), additional protection layers between filter media and core (no cracks), double O-rings for proper cartridge fixation (no leaks) and epoxy sealed end caps (guaranteed fixation). In this way, we can guarantee the highest air purity at lowest operational costs throughout the entire service life of the filter.

Technical specifications for threaded filters 1 S/HE - 11S/HE												
Pneumatech Variant → Specifications ↓	Units	1 S/HE	2 S/HE	3 S/HE	4 S/HE	5 S/HE	6 S/HE	7 S/HE	8 S/HE	9 S/HE	10 S/HE	11 S/HE
Nominal Flow for S Range ⁽¹⁾	l/s	12	25	45	65	90	160	215	265	360	525	690
	m ³ /hr	43.2	90	162	234	324	576	774	954	1296	1890	2484
	cfm	25	53	95	138	191	339	456	562	763	1112	1462
Nominal Flow for HE Range ⁽¹⁾	l/s	10	20	30	40	60	110	160	220	320	450	600
	m ³ /hr	36	72	108	144	216	396	576	792	1152	1620	2160
	cfm	21	42	64	85	127	233	339	466	678	953	1271
Max Pressure	Bar	16	16	16	16	16	16	16	16	16	16	16
	PSI	290	290	290	290	290	290	290	290	290	290	290
Connection	G/NPT	3/8"	½"	½"	¾" & 1"	1"	1½"	1½"	1½"	2" & 2½"	3"	3"
Dimensions (A)	mm	90	90	90	110	110	140	140	140	179	210	210
	inch	3.5	3.5	3.5	4.3	4.3	5.5	5.5	5.5	7.0	8.3	8.3
Dimensions (B)	mm	61	61	61	99	99	105	105	105	121	128	128
	inch	2.4	2.4	2.4	3.9	3.9	4.1	4.1	4.1	4.8	5.0	5.0
Dimensions (C)	mm	268	268	323	374	414	520	603	603	689	791	961
	inch	10.6	10.6	12.7	14.7	16.3	20.5	23.7	23.7	27.1	31.1	37.8
Weight	Kg	1	1.1	1.3	1.6	2.1	4.2	4.5	4.6	6.9	11	12.6
	Lbs	2.2	2.4	2.9	4.2	4.6	9.3	9.9	10.1	15.2	24.2	27.8

1. Flow is measured at reference conditions: 1 Bar(a) and 20°C at operating pressure of 7 bar (g), inlet temperature 20°C & inlet PDP of 3°C at the outlet.

Filter Elements performance						
	S	D	G	C	P	V
Grades → Performance ↓	Dry dust - general protection	Dry dust - high efficiency	Oil coalescing - general protection	Oil coalescing - high efficiency	Oil vapor	Activated Carbon
Particle removal efficiency (% at MPPS) HE performance	99.92%	99.98%	n/a	n/a	92.03%	n/a
Particle removal efficiency (% at MPPS) S performance	99.81%	99.97%	n/a	n/a	89.45%	n/a
Oil carry-over (mg/m ³) HE performance	n/a	n/a	<0,07	<0,008	<1	<0,003
Oil carry-over (mg/m ³) S performance	n/a	n/a	<0,1	<0,01	<1	<0,003

Correction factors													
Inlet pressure	Bar(g)	1	2	3	4	5	6	7	8	10	12	14	16
	psi (g)	15	29	44	58	72.5	87	102	116	145	174	203	232
Correction factor	Kp	0.38	0.53	0.65	0.75	0.83	0.92	1	1.06	1.2	1.31	1.41	1.5



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