

H - High Pressure Filters

Features & Benefits

- ▶ High reliability
 - High-performance aluminum or stainless steel housings to withstand ultimately high operational pressures
 - Double O-rings, epoxy sealed caps and anti-corrosive coated filter housing
- ▶ Maximum contaminant removal
 - Removal of dry and wet dust, particulates, oil aerosol and water droplets
 - High-efficiency glass fiber and fleece media
- ▶ Significant energy savings & limited system operating costs
 - Optimal design and filter media allow for low pressure drops
- ▶ Easy to service
 - Cartridge color based on type of filtration grade, makes it easy to service

General Specifications

- ▶ Operating pressures: 50-100-350 barg / 725-1450-5075 psig
- ▶ Operating temperature range:
 - 0-120°C / 32-248°F (for grades S, D, G & C)
 - 0-35°C / 32-95°F (for grade V)
- ▶ Available grades:
 - G: general oil coalescing filtration (max oil carry-over: 0,08 mg/m³)
 - C: fine oil coalescing filtration (max oil carry-over: 0,007 mg/m³)
 - S: general dust filtration (99,92% at MPPS)
 - D: fine dust filtration (99,98% at MPPS)
 - V: oil vapor filtration (max oil carry-over: 0,003 mg/m³)
- ▶ Inlet and outlet connections: threaded
- ▶ Housing material: Aluminum (50 barg / 725 psig only) or stainless steel (complete range)



Applications



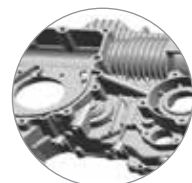
Laser cutting



PET bottling



Pressure testing of components



High-pressure die casting



Autoclave

Pneumatech's high pressure filters are engineered to cost effectively provide the best air purity and meet today's increasing quality demands up to working pressures of 350 barg/5075 psig. All high pressure filter housings are hydraulically tested to ensure safe and reliable operation at all times. The hydrostatic test certificate is supplied with every filter.

The high pressure filters are available in 3 pressure ranges. The 50 barg (725 psig) range is available in both aluminum and stainless steel housings. As the performance of both filters is the same, the choice between the 2 can be made based on the customer's preference. The 100 barg (1450 psig) and 350 barg (5075 psig) filters are available in stainless steel housings.

Technical specifications for HP 1-9 50 barg Aluminium Filters										
Pneumatech Variant → Specifications ↓	Units	1	2	3	4	5	6	7	8	9
Capacity ⁽¹⁾	l/s	44	69	125	153	232	347	479	535	889
	m ³ /hr	160	250	450	550	835	1250	1725	1925	3200
	cfm	94	147	265	324	491	736	1015	1133	1883
Connection	BSP	¼"	3/8"	½"	¾"	1"	1½"	1½"	2"	2"
Dimensions (A)	mm	63	63	114	114	114	146	146	146	146
	inch	2.48	2.48	4.49	4.49	4.49	5.75	5.75	5.75	5.75
Dimensions (B)	mm	150	190	305	305	395	435	435	435	635
	inch	5.91	7.48	12.01	12.01	15.55	17.13	17.13	17.13	25.00
Weight	Kg	0.3	0.3	2.6	2.6	3.3	7.5	7.5	7.5	10
	Lbs	0.7	0.7	5.7	5.7	7.3	16.5	16.5	16.5	22.0

Technical specifications for HP 1-7 100 barg Stainless Steel								
Pneumatech Variant → Specifications ↓	Units	1	2	3	4	5	6	7
Capacity ⁽¹⁾	l/s	28	88	128	189	333	472	944
	m ³ /hr	100	315	460	680	1200	1700	3400
	cfm	59	185	271	400	706	1001	2001
Connection	BSP	¼"	1/2"	¾"	1"	1"	1½"	2"
Dimensions (A)	mm	65	65	88	135	135	150	150
	inch	2.56	2.56	3.46	5.31	5.31	5.91	5.91
Dimensions (B)	mm	135	250	275	265	480	525	815
	inch	5.31	9.84	10.83	10.43	18.90	20.67	32.09
Weight	Kg	3.2	5.6	6.1	10.5	14.7	22	28
	Lbs	7.1	12.3	13.4	23.1	32.4	48.5	61.7

Technical specifications for HP 1-8 50 barg Stainless Steel									
Pneumatech Variant → Specifications ↓	Units	1	2	3	4	5	6	7	8
Capacity ⁽¹⁾	l/s	28	56	94	139	278	472	567	944
	m ³ /hr	100	200	340	500	1000	1700	2040	3400
	cfm	59	118	200	294	589	1001	1201	2001
Connection	BSP	¼"	3/8"	½"	¾"	1"	1½"	2"	2"
Dimensions (A)	mm	85	85	85	110	110	150	150	150
	inch	3.35	3.35	3.35	4.33	4.33	5.91	5.91	5.91
Dimensions (B)	mm	202	227	257	270	422	517	517	817
	inch	7.95	8.94	10.12	10.63	16.61	20.35	20.35	32.17
Weight	Kg	1.7	2	2.2	4	5	15	15	21
	Lbs	3.7	4.4	4.9	8.8	11.0	33.1	33.1	46.3

Technical specifications for HP 1-6 350 barg Stainless Steel							
Pneumatech Variant → Specifications ↓	Units	1	2	3	4	5	6
Capacity ⁽¹⁾	l/s	13	31	71	142	208	369
	m ³ /hr	48	111	255	510	750	1330
	cfm	28	65	150	300	441	783
Connection	BSP	¼"	¼"	½"	¾"	1"	1"
Dimensions (A)	mm	41	65	88.5	88.5	150	150
	inch	1.61	2.56	3.48	3.48	5.91	5.91
Dimensions (B)	mm	103	135	210	280	330	480
	inch	4.06	5.31	8.27	11.02	12.99	18.90
Weight	Kg	1.6	3.2	5.6	6.1	14.5	17.4
	Lbs	3.5	7.1	12.3	13.4	32.0	38.4

Correction factors: 50 barg Aluminum & Stainless Steel										
Operating pressure	barg	4	6	8	10	15	20	30	40	50
	psig	58	87	116	145	218	290	435	581	726
Correction factor	Kp	0.14	0.22	0.28	0.34	0.47	0.56	0.7	0.85	1

Correction factors: 100 barg Stainless Steel										
Operating pressure	barg	20	30	40	50	60	70	80	90	100
	psig	290	435	581	726	871	1016	1161	1306	1451
Correction factor	Kp	0.45	0.57	0.68	0.8	0.84	0.88	0.92	0.96	1

Correction factors: 350 barg Stainless Steel										
Operating pressure	barg	-	-	50	100	150	200	250	300	350
	psig	-	-	726	1451	2177	2903	3628	4354	5080
Correction factor	Kp	-	-	0.73	0.78	0.82	0.87	0.91	0.96	1

1. Flow is referred to an absolute pressure of 1 barg and temperature of 20°C

