



# FF 1 - 12 - Flanged Filters

## Features & Benefits

- ▶ Guaranteed air purity
  - High-efficient glass fiber and foam media
- ▶ No risks of:
  - Cracked filter media
  - Cylinder implosion
  - Top cap leakages
  - Oil re-entrainment
- ▶ Significant energy savings
  - Optimal filter media selection allows low pressure losses
  - Zero-loss electronic drain included as standard
- ▶ 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
  - Special coating ensures high corrosion protection, and therefore a housing lifetime of at least 20 years
- ▶ Easy service and installation
  - Bottom cover with special rotating system
  - Different grade, different colour
  - Differential pressure gauge, with voltage free contact

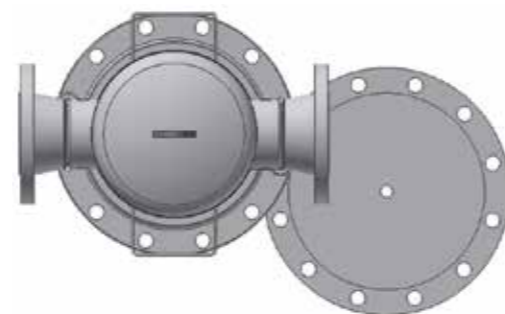


## General Specifications

- ▶ Compressed air inlet pressure: 1-16 barg / 15-232 psig
- ▶ Max. ambient air temperature: 66°C / 151 °F (35°C / 95 °F for V grade)
- ▶ Available grades:
  - P: pre-filter
  - G: fine filter
  - C: super fine filter
  - V: activated carbon filter for oil vapor
  - S: dust filter
  - D: dust filter- high efficient

### Zooming in

#### Special rotating system of bottom cover



Pneumatech's flanged filter range contains the same type of robust, high-efficient filter cartridges as the threaded range. The cartridges are contained in a welded steel housing which is pressure-rated up to 16 barg / 232 psig and provided with flanged connections at the compressed air inlet and outlet. The filter housings are completely cleaned, zinc phosphate and KTL

coated at the inside and outside and externally painted afterwards. This guarantees a housing lifetime of at least 20 years.

All flanged filters are standard equipped with a zero-loss electronic drain and differential pressure gauge with voltage-free contact connections. The special rotating system of the bottom cover makes filter cartridge replacement very straightforward.

### Technical specifications for flanged filters FF 1-12

Pneumatech Variant → Specifications ↓	Units	FF 1	FF 2	FF 3	FF 4	FF 5	FF 6	FF 7	FF 8	FF 9	FF 10	FF 11	FF12
Nominal (max.) Flow Rate <sup>(1)</sup>	l/s	"550 (630)"	"850 (970)"	1100 (1260)	1400 (1600)	1800 (2200)	2200 (2400)	3000 (3600)	4000	5000	6000	7000	8000
	m <sup>3</sup> /hr	1980 (2268)	3060 (3492)	3960 (4536)	5040 (5760)	6480 (7920)	7920 (8640)	10800 (12960)	14400	18000	21600	25200	28800
	cfm	1165 (1335)	1801 (2055)	2331 (2670)	2966 (3390)	3814 (4662)	4662 (5085)	6357 (7628)	8476	10594	12713	14832	16951
Max Pressure	barg	16	16	16	16	16	16	16	16	16	16	16	16
	psig	232	232	232	232	232	232	232	232	232	232	232	232
Connection	DN	DN80	DN100	DN100	DN150	DN150	DN150	DN200	DN200	DN250	DN250	DN300	DN300
Dimensions (A)	mm	370	510	510	620	640	640	820	820	820	920	920	1040
	inch	14.6	20.1	20.1	24.4	25.2	25.2	32.3	32.3	32.3	36.2	36.2	40.9
Dimensions (B)	mm	190	230	230	290	285	285	400	400	400	550	550	525
	inch	7.5	9.1	9.1	11.4	11.2	11.2	15.7	15.7	15.7	21.7	21.7	20.7
Dimensions (C)	mm	1295	1360	1360	1480	1555	1555	1745	1745	1745	2085	2085	2070
	inch	51.0	53.5	53.5	58.3	61.2	61.2	68.7	68.7	68.7	82.1	82.1	81.5
Weight	Kg	76	141	143	210	176	178	420	428	432	594	597	1140
	Lbs	167.6	310.9	415.3	463	388	392.4	925.9	943.6	952.4	1034	1479.3	1984.2
Number of filter elements		1	3	4	5	6	7	10	14	16	20	24	28
Filter element size		1F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)	2F (grade)
Order example:		FF 1 C HE (superfine filter with differential pressure gauge)											

1. Flow is measured at reference conditions: 1 bara and 20°C at operating pressure of 7 barg, inlet temperature 10°C & std PDP of 3°C at the inlet.

### Filter Elements performance

Grades → Performance ↓	P	G	C	V	S	D
	Pre-filter	Fine filter - Oil aerosols/ solid particles	Super fine filter - Oil aerosols/ solid particles	Activated Carbon - Oil vapor	Dust filter	High efficiency dust filter
Particle removal efficiency at nominal flow (% at MPPS)	92.03%	99.92%	99.98%	n/a	99.92%	99.98%
Oil carry-over at nominal flow (mg/m <sup>3</sup> )	<1*	<0,07*	<0,008*	<0,003	n/a	n/a

\* Oil aerosol content

### Correction factors

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

