

High-Flow VANGUARD General Purpose Filters

FD100 Models Port Sizes: 3/4, 1



Model Shown: FD100-8

- ◆ Inline mounting.
- ◆ 5- μ m-rated polyethylene filter element; optional sintered bronze elements.
- ◆ High-strength polycarbonate plastic filter bowl with steel shatterguard; optional metal bowl with clear nylon sight glass.
- ◆ Internal automatic drain; optional manual drain, internal float drain, or external Hydro-Jector drain.
- ◆ NPTF port threads; optional SAE or BSPP threads.

SPECIFICATIONS

Ambient/Media Temperature:

Plastic Bowl: 40° to 125°F (4° to 52°C).
Metal Bowl: 40° to 175°F (4° to 79°C).

Body: Aluminum.

Bowl: 16-Ounce (480-ml) capacity polycarbonate plastic with steel shatterguard; optional aluminum bowl with clear nylon sight glass.

Bowl Drain: Internal automatic drain; optional manual drain, internal float drain, or external Hydro-Jector drain.

Bowl Ring: Aluminum.

Filter Element: 5- μ m-rated polyethylene; optional 5- μ m, 20- μ m, or 40- μ m sintered bronze.

Fluid Media: Compressed air.

Inlet Pressure:

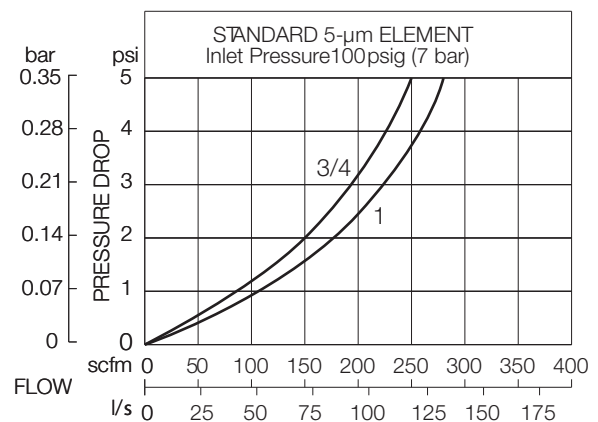
Minimum: 15 psig (1 bar) with automatic drain, 30 psig (2 bar) with internal float drain.

Plastic Bowl: 150 psig (10 bar) maximum.

Metal Bowl: 200 psig (14 bar) maximum.

Seals: Nitrile.

FLOW CHART

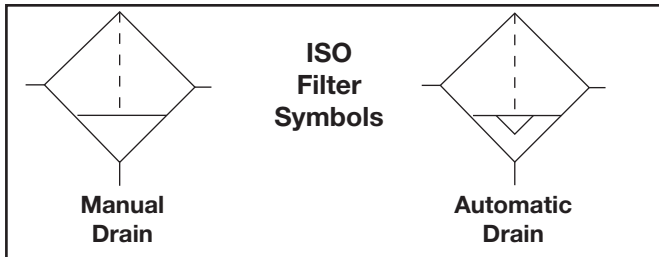
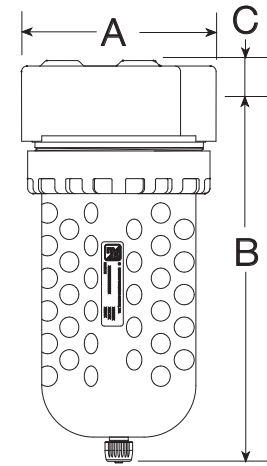


* **Note:** "6", 3/4" NPTF has larger bowl capacity than "6x", 3/4" NPTF

DIMENSIONS inches (mm)

Bowl	Ports	A	B †	C	Depth	Weight † lb (kg)
Plastic	3/4, 1	4.5 (114)	8.0 (203)	0.8 (21)	4.2 (106)	2.44 (1.11)
Metal	3/4, 1	4.5 (114)	8.3 (210)	0.8 (21)	4.2 (106)	3.25 (1.48)

† With Hydro-Jector external drain, dimension B is increased by 8.0 inches (203 mm), and weight is increased by 2.56 pounds (1.18 kg).



REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
5-µm polyethylene (Std element)	KA109-3PE
5-µm bronze	KA109-03E5
20-µm bronze	KA109-03E4
40-µm bronze	KA109-03E3

ORDERING INFORMATION

Change the letters in the sample model number below to specify the filter you want.

BFD 100 - 6 Y W

BOWL AND DRAIN TYPE

- Plastic bowl, internal automatic drain FD
- Metal bowl, internal automatic drain BFD
- Plastic bowl, manual drain F
- Metal bowl, manual drain BF
- Plastic bowl, internal float drain (**plastic stem**) ... F5A
- Metal bowl, internal float drain (**brass stem**) BF6A
- Metal bowl, external Hydro-Jector drain BFE
(LDC option is not needed; under **OPTIONS**)
- Metal bowl, warrior electronic drain BF2A

DIFFERENTIAL PRESSURE GAUGE

- No gauge 100
- Large gauge 101
- Small gauge 101S
- Large gauge with normally **OPEN** reed switch..... 101E
- Large gauge with normally **CLOSED**..... 101E2
reed switch

PORT SIZE

- 3/4 NPTF 6
- Note:** '6', 3/4 NPTF has a larger bowl capacity than '6X' 3/4 NPTF.
- 1 NPTF 8
- 1-1/16-12 UNF SAE S12
- 1-5/16-12 UNF SAE S16

PORT TYPE

- As specified in **INLET PORT** Leave Blank
- BSP** threads on both ports W

OPTIONS (More than one option can be chosen. Add in alphabetical order.)

- None Leave Blank

Polyethylene filter element:

- 5-µm rating Leave Blank

Bronze filter element:

- 5-µm rating E5
- 20-µm rating E4
- 40-µm rating E3

- No bowl drain LDC

(1/4 NPT female port instead. Also use 'BF' option under **BOWL AND DRAIN TYPE** section.)

DIFFERENTIAL PRESSURE GAUGES



Small Slide Gauge
103-151



Large Dual Face Gauge
106-35



Large Dual Face Gauge
with Reed Switch
106-35E (Normally Open)
106-35EC (Normally Closed)

VANGUARD High-Flow Filter, FD100 Series