

# High-Flow VANGUARD General Purpose Filters

## FD100 Models Port Sizes: 3/4, 1



Model Shown: FD100-8

### SPECIFICATIONS

#### Ambient/Media Temperature:

Plastic Bowl, all drain types: 40° to 125°F (4° to 52°C).  
Metal Bowl, manual & auto drains: 40° to 175°F (4° to 79°C).  
Metal Bowl, float drains: 40° to 150°F (4° to 66°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- $\mu$ m-rated polyethylene; optional 5- $\mu$ m, 20- $\mu$ m, or 40- $\mu$ m sintered bronze.

**Fluid Media:** Compressed air.

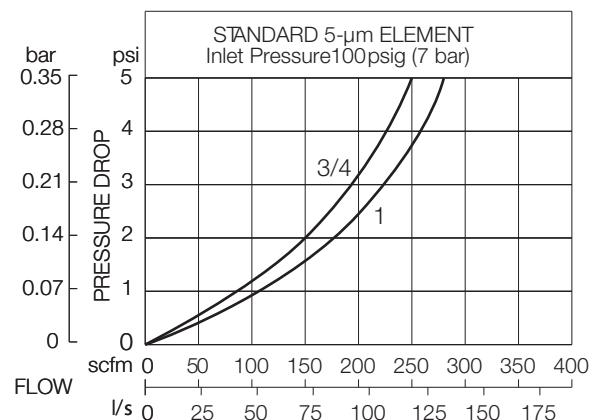
#### Inlet Pressure:

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.

- ◆ Inline mounting.
- ◆ 5- $\mu$ 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 BSPP threads.

### FLOW CHART



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



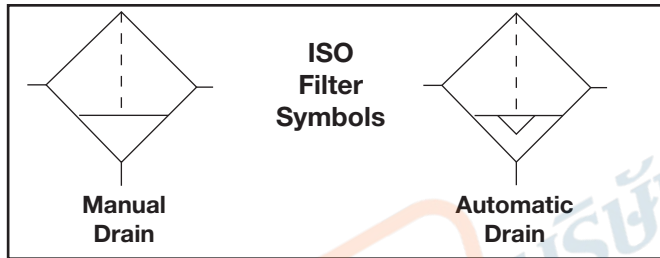
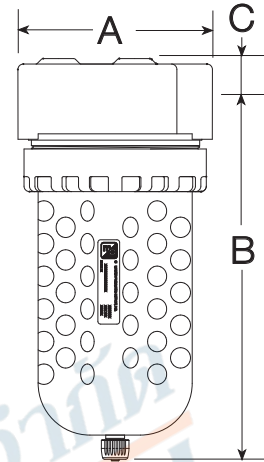
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## DIMENSIONS inches (mm)

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
<i>(LDC option is not needed; under OPTIONS)</i>	
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 reed switch	101E2

### PORT SIZE

3/4 NPTF	6
<b>Note:</b> '6', 3/4 NPTF has a larger bowl capacity than '6X' 3/4 NPTF.	
1 NPTF	8

### PORT TYPE

As specified in INLET PORT ..... Leave Blank  
 BSPP 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)



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