

# Full-Size VANGUARD Modular Integral Filter/Regulators

# CFDR100 Models Port Sizes: 1/4, 3/8, 1/2, 3/4



Model Shown: CFDR100-6

- ◆ Filter and regulator consolidated in a single assembly.
- ◆ Modular assembly and 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 or external Hydro-Jector drain.
- ◆ Self-relieving diaphragm-type regulator; non-relieving optional.
- ◆ Pressure adjustment locking key.
- ◆ Pressure gauge.
- ◆ 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:** Zinc.

**Bowl:** 8-Ounce (240-ml) capacity polycarbonate plastic with steel shatterguard; optional zinc bowl with clear nylon sight glass.

**Dome:** Nylon. Aluminum with option H spring.

**Filter Drain:** Internal automatic drain; optional manual drain or external Hydro-Jector drain.

**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:

15 psig (1 bar) minimum with automatic drain.  
Plastic bowl: 150 psig (10 bar) maximum.  
Metal bowl: 200 psig (14 bar) maximum.

**Knob:** Acetal.

**Outlet Pressure:** Adjustable up to 125 psig (8.6 bar).

**Pressure Adjustment Locking Key:** Removable.

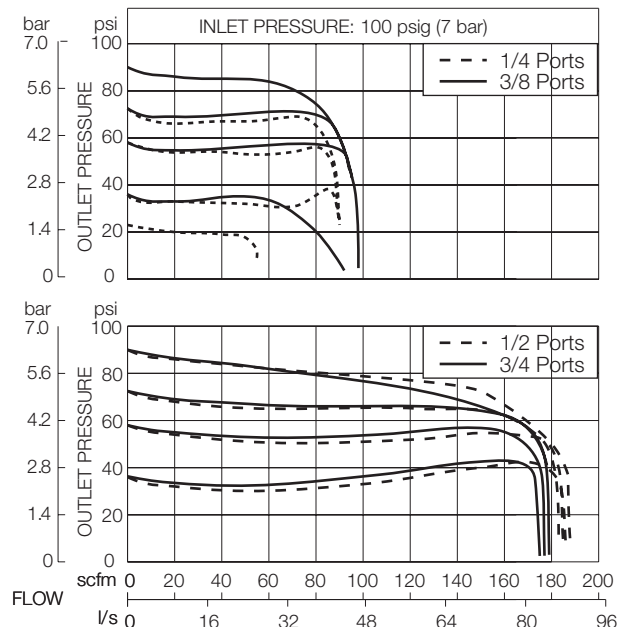
**Pressure Gauge:** 0 to 200 psig (14 bar); 1/4 NPT gauge ports front and rear.

**Panel Mounting:** 2-1/16 inch (52 mm) hole required.

**Seals:** Nitrile

## FLOW CHARTS

Standard 5- $\mu$ m Element



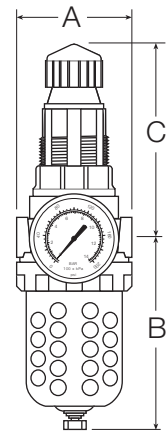
## DIMENSIONS inches (mm)

Bowl	A	B *	C **	Depth †	Weight † lb (kg)
Plastic	3.5 (89)	5.8 (146)	5.8 (146)	3.5 (89)	2.50 (1.15)
Metal	3.5 (89)	6.4 (163)	5.8 (146)	3.5 (89)	2.55 (1.17)

\* Bowl removal clearance: add 3.1 (79).

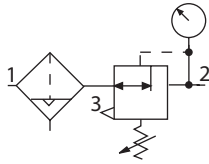
\*\* Dome removal clearance: add 0.63 (16).

† Less gauge.



### ISO Filter/Regulator Symbol

**Automatic Drain**  
**Self-relieving**



## REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
5-µm polyethylene (Std element).....	KA103-3PE
5-µm bronze .....	KA103-03 E5
20-µm bronze .....	KA103-03E4
40-µm bronze .....	KA103-03E3

## ORDERING INFORMATION

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

**B C FD R100-2 Y G W**

### BOWL TYPE

Plastic bowl ..... Leave Blank  
Metal bowl ..... B

### FILTER DRAIN

Internal automatic drain ..... FD  
Manual drain ..... F  
External Hydro-Jector drain ..... FE

### PORT SIZE

1/4 NPTF ..... 2  
3/8 NPTF ..... 3  
1/2 NPTF ..... 4  
3/4 NPTF ..... 6  
9/16-18 UNF SAE ..... S6  
3/4-16 UNF SAE ..... S8  
7/8-14 UNF SAE ..... S10

### PORT TYPE

NPTF Threads ..... Leave Blank  
BSPF threads ..... W

### OPTIONS (More than one option can be chosen)

0-200 psig Gauge ..... Leave Blank  
No psig Gauge ..... NG  
Mounting nut ..... P

### OPTIONS (More than one option can be chosen)

None ..... Leave Blank  
Non-relieving ..... A  
Sintered bronze filter element:  
5-µm rating ..... E5  
20-µm rating ..... E4  
40-µm rating ..... E3

### Adjusting springs:

0-20 psig (0-1.4 bar) ..... L20  
0-175 psig (0-12 bar) ..... H\*\*  
0-50 psig (0-3.4 bar) ..... L

Remove adjusting key ..... JJ  
Metal Dome ..... MD  
Limit maximum psig setting .... M\*  
Tee handle ..... T

\* Insert maximum limited pressure.

\*\* H option spring includes metal dome.

### MOUNTING BRACKETS

See page 276.