

# COALESCING FILTERS

A 0.3- $\mu\text{m}$ -rated coalescing filter element is standard in all coalescing units. They remove 99.99% of oil and solid contaminants larger than 0.3  $\mu\text{m}$ . An optional 0.01- $\mu\text{m}$ -rated element provides extremely fine filtration, but at some reduction in air flow. However, in **GUARDSMAN**, **GUARDSMAN II**, **SERIES 380**, and **VANGUARD** filters there are available extended bowls with higher capacity coalescing elements for significantly increased air flows.



Coalescing filters have epoxy-resin-coated, borosilicate, glass-fiber elements. Liquids and solids are removed from the air stream by several different actions, namely:  
**IMPACTION:** Particles larger than 1  $\mu\text{m}$  collide with and adhere to the fibers of the element.

**INTERCEPTION:** Particles 0.3  $\mu\text{m}$  to 2  $\mu\text{m}$  in size are molecularly attracted to the fibers of the element, and this causes them to adhere.

**DIFFUSION:** Particles 0.001  $\mu\text{m}$  to 0.3  $\mu\text{m}$  in size move by random Brownian motion, thereby contacting and adhering to the fibers of the element.

**DRAINING:** Tiny droplets of oil coalesce (merge) until they form drops large enough to fall off the filter element and into the bowl sump. The automatic drain then expels them.

The filter element will continue to coalesce liquids until solid contaminants accumulated in the filter element cause the pressure drop across the element to become excessive. At this point the filter element must be changed. A built-in differential pressure gauge (see next page) will indicate when the point is reached that requires the element to be changed.

## GUIDE to COALESCING FILTERS

Filter Series	Modular Construction	Port Sizes								Pages	
		1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2		2
<b>SENTRY</b>											
FCD10 models †	yes	X	X								80-81
<b>MINIATURE</b>											
FCD50 models	no	X	X								82-83
<b>GUARDSMAN</b>											
FCD60 models	yes		X	X	X						84-85
<b>GUARDSMAN II</b>											
BFCD70 models	yes		X	X	X						86-87
<b>SERIES 350</b>											
F5A350 models	yes		X	X	X						88-89
<b>Full-Size VANGUARD</b>											
FCD101 models	yes		X	X	X	X					90-91
<b>Full-Size SERIES 380</b>											
FCD380 models	yes			X	X	X					92-93
<b>High-Flow VANGUARD</b>											
FCD101 models	no					X	X				94-95
BFC6A401 models	no							X	X	X	100-103
BFCD201 models	no					X	X	X	X		96-99

† Also available with quick-connect tube fittings up to 10 mm.

# DIFFERENTIAL PRESSURE GAUGES

**GUARDSMAN, SERIES 350, 380, and VANGUARD** coalescing filters include a differential pressure gauge which measures the pressure drop across the coalescing filter element. This monitors the condition of the coalescing element, and such a gauge should always be used with coalescing filters. When the pressure drop increases into the range of 7 to 10 psi (0.5 to 0.7 bar) the gauge indicates that the element must be changed. The types of gauges are shown below.



The Full-Size **VANGUARD** and **SERIES 380** filters use the small **K103-151** gauge kit. **GUARDSMAN** units use the **A60F-28** gauge kit. Series 350 units use the **A125-09** gauge kit. All three are slide-type gauges, and are color coded to show the condition of the coalescing element.

**Green** — Clean (Up to 7 psi)  
**Red** — Change (7 to 10 psi)



**High-Flow VANGUARD** filters employ the large **106-35** gauge as shown above. It is a dual face gauge color coded to show the condition of the coalescing element. Optionally available for other units.

**Green** — Clean (Up to 6 psi)  
**Yellow** — Change (6 to 9 psi)  
**Red** — Dirty (Over 9 psi)



The large gauge is also available with a reed switch: normally open (**106-35E**) or normally closed (**106-35EC**). See options for specific filters under Ordering Information. Gauge face readings are unchanged.

**Green** — Clean (Up to 6 psi)  
**Yellow** — Change (6 to 9 psi)  
**Red** — Dirty (Over 9 psi)

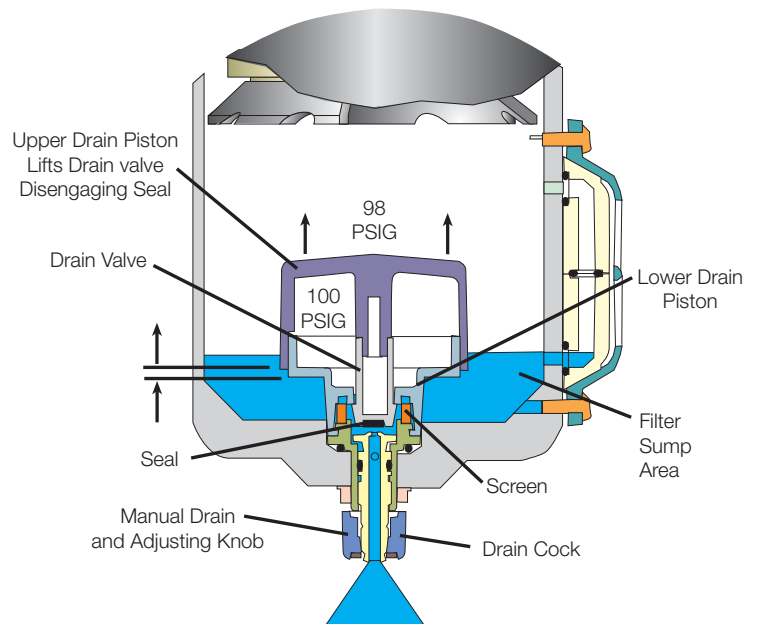
**IMPORTANT NOTE**  
 A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## INTERNAL AUTOMATIC BOWL DRAIN

Automatic drains are standard on Master Pneumatic coalescing filters and we strongly recommend their use to improve filter effectiveness, lengthen service life, and reduce maintenance needs.

The Master Pneumatic automatic drains operate when liquids have accumulated in the filter bowl and a pressure drop of 2 psi or more occurs (e.g., when a valve or other device is actuated). The pressure drop triggers the automatic drain to expel accumulated liquid.

The drain is also activated whenever the air supply is shut down and exhausted. Although the unit is set at the factory an adjusting knob at the bottom of the filter can be manually set for optimum performance with very high or low flows of air.



# SENTRY Modular Coalescing Filters

# FCD10 Models Port Sizes: 1/8, 1/4; Tube Fittings



Model Shown: FCD10-2

## SPECIFICATIONS

### Ambient/Media Temperature:

40° to 125°F (4° to 52°C).

### Body:

Acetal.

**Bowl:** 2-Ounce (60-ml) capacity polycarbonate plastic; optional aluminum bowl.

### Bowl Drain:

Internal automatic drain; optional manual drain.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu$ m-rated element.

**Fluid Media:** Compressed air.

### Inlet Pressure:

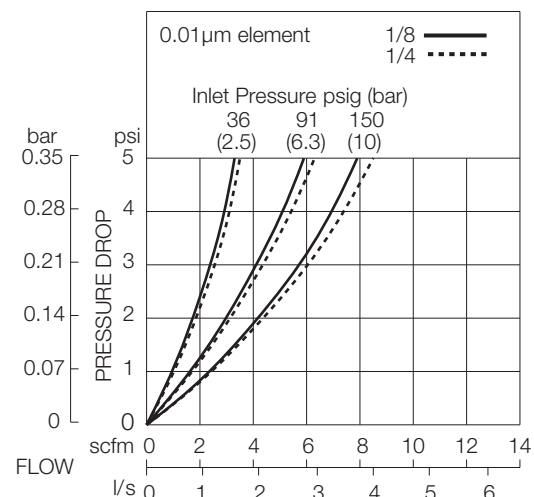
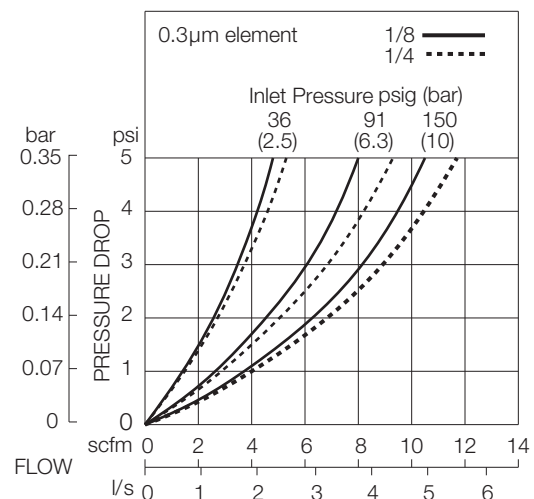
15 psig (1 bar) minimum with automatic drain.  
150 psig (10 bar) maximum.

**Seals:** Nitrile.

**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

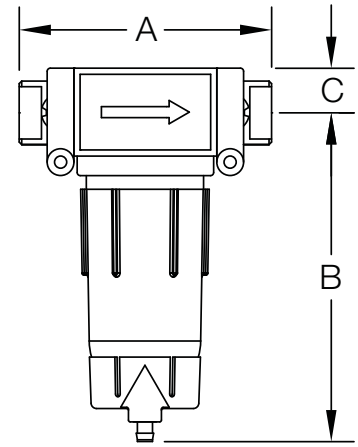
- ◆ Modular assembly and mounting.
- ◆ Threaded ports or quick-connect fittings for tubing up to 10 mm in diameter.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m-rated element.
- ◆ High-strength polycarbonate plastic filter bowl; optional aluminum bowl.
- ◆ Internal automatic drain; optional manual drain.
- ◆ NPTF port threads; optional **BSPF** threads.

## FLOW CHARTS

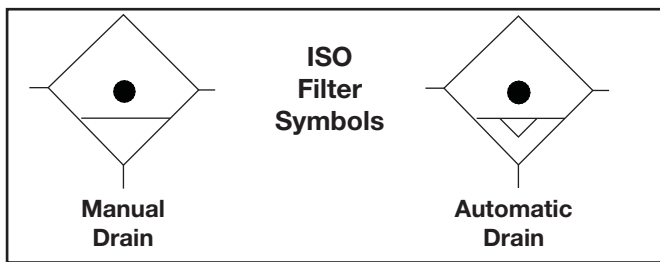


## DIMENSIONS inches (mm)

Ports	A	B †	C	Depth	Weight lb (kg)
No Port	1.7 (43)	3.9 (99)	0.5 (13)	1.8 (45)	0.27 (0.12)
1/8, 1/4	3.0 (76)	3.9 (99)	0.5 (13)	1.8 (45)	0.49 (0.22)
<b>Models below have quick-connect fittings for tubing.</b>					
1/4	3.4 (86)	3.9 (99)	0.5 (13)	1.8 (45)	0.47 (0.21)
3/8	3.9 (99)	3.9 (99)	0.5 (13)	1.8 (45)	0.47 (0.21)
4 mm	3.4 (86)	3.9 (99)	0.5 (13)	1.8 (45)	0.47 (0.21)
6 mm	3.4 (86)	3.9 (99)	0.5 (13)	1.8 (45)	0.47 (0.21)
8 mm	3.4 (86)	3.9 (99)	0.5 (13)	1.8 (45)	0.47 (0.21)
10 mm	3.9 (99)	3.9 (99)	0.5 (13)	1.8 (45)	0.47 (0.21)



† Dimension for plastic bowl; metal bowl is 4.3 (109).



## REPLACEMENT FILTER ELEMENT KITS

Element Rating	Kit Number
0.3 µm (Std element).....	A10F-16
0.01 µm For models with E8 option.....	A10F-16E8

## ORDERING INFORMATION

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

B FCD 10 P - 2 X Y W

**BOWL TYPE**

Plastic bowl ..... Leave blank  
Metal bowl..... B

**BOWL DRAIN**

Internal automatic drain ..... FCD  
Manual drain..... FC

**MOUNTING HOLE LOCATION**

Bottom mount (Standard) ..... Leave Blank  
Top mount ..... P

**INLET PORT SIZE**

No inlet and outlet ports.. ..... Leave blank

**Threaded:**

1/8 NPTF ..... 1  
1/4 NPTF ..... 2

**Fittings for Tubing:**

1/4 ..... 04  
3/8 ..... 06  
4 mm ..... M4  
6 mm ..... M6  
8 mm ..... M8  
10 mm ..... M10

**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  
0.01-µm-rated coalescing ..... E8  
element  
No Drain (Lubricator bowl) ..... LDC  
(Use manual drain option under **BOWL DRAIN** section as well)

**OUTLET PORT SIZE**

Same as inlet port ..... Leave Blank

**Threaded:**

1/8 NPTF ..... 1  
1/4 NPTF ..... 2

**Fittings for Tubing:**

1/4 ..... 04  
3/8 ..... 06  
4 mm ..... M4  
6 mm ..... M6  
8 mm ..... M8  
10 mm ..... M10

# MINIATURE Coalescing Filters

# FCD50 Models Port Sizes: 1/8, 1/4



Model Shown: FCD50-2

## SPECIFICATIONS

### Ambient/Media Temperature:

Plastic bowl: 40° to 125°F (4° to 52°C).  
Metal bowl: 40° to 150°F (4° to 66°C).

**Body:** Aluminum.

**Bowl:** 2-Ounce (60-ml) capacity polycarbonate plastic;  
optional aluminum bowl.

### Bowl Drain:

Internal automatic drain; optional manual drain.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber  
coalescing element; optional 0.01- $\mu$ m-rated element.

**Fluid Media:** Compressed air.

### Inlet Pressure:

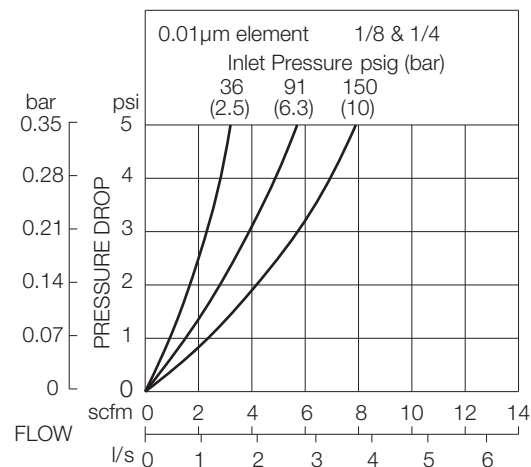
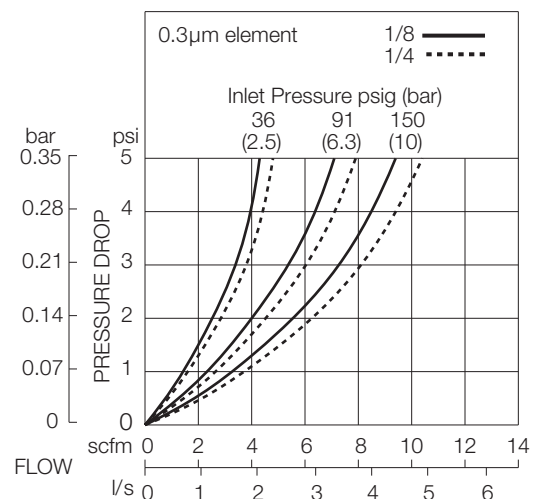
15 psig (1 bar) minimum with automatic drain.  
Plastic bowl: 150 psig (10 bar) maximum.  
Metal bowl: 200 psig (14 bar) maximum.

**Seals:** Nitrile.

**APPLICATION NOTE:** A general purpose filter must  
be installed ahead of a coalescing filter to ensure good  
performance and to extend the life of the coalescing element.

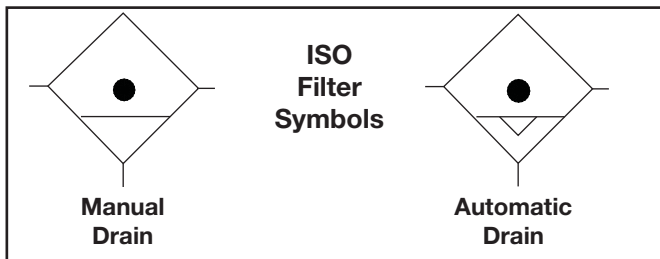
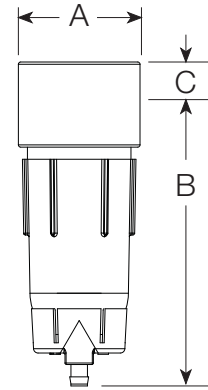
- ◆ Inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m-rated element.
- ◆ High-strength polycarbonate plastic filter bowl; optional metal bowl.
- ◆ Internal automatic drain; optional manual drain.
- ◆ **NPTF** port threads; optional **BSPP** threads.

## FLOW CHARTS



**DIMENSIONS** inches (mm)

Bowl	Ports	A	B	C	Depth	Weight lb (kg)
Plastic	1/8, 1/4	1.6 (41)	3.9 (99)	0.4 (9.5)	1.6 (41)	0.33 (0.15)
Metal	1/8, 1/4	1.6 (41)	4.3 (109)	0.4 (9.5)	1.6 (41)	0.35 (0.16)



**REPLACEMENT FILTER ELEMENT KITS**

Element Rating	Kit Number
0.3 µm (Std element).....	A10F-16
0.01 µm For models with E8 option.....	A10F-16E8

**ORDERING INFORMATION**

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

**B FCD 50 - 2 Y W**

**BOWL TYPE**

Plastic bowl..... Leave blank  
Metal bowl..... B

**BOWL DRAIN**

Internal automatic drain .....FCD  
Manual drain.....FC

**PORT TYPE**

NPTF threads .....Leave Blank  
BSPP threads ..... W

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

None ..... Leave Blank  
0.01-µm-rated coalescing ..... E8 element  
Tapped modified head to ..... T to allow 50-01 bracket assy.  
No Drain (*Lubricator bowl*) ..... LDC  
*(Use manual drain option under BOWL DRAIN section as well)*

**PORT SIZE**

1/8 NPTF ..... 1  
1/4 NPTF..... 2

# GUARDSMAN Modular Coalescing Filters

# FCD60 Models Port Sizes: 1/4, 3/8, 1/2



Model Shown: FCD60-4

## 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:** 4-Ounce (120-ml) capacity polycarbonate plastic with zinc shatterguard; optional zinc bowl.

### Bowl Drain:

Internal automatic drain; optional manual drain.

**Differential Pressure Gauge:** A60F-28.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu$ m-rated element (reduces flow by 20%).

**Fluid Media:** Compressed air.

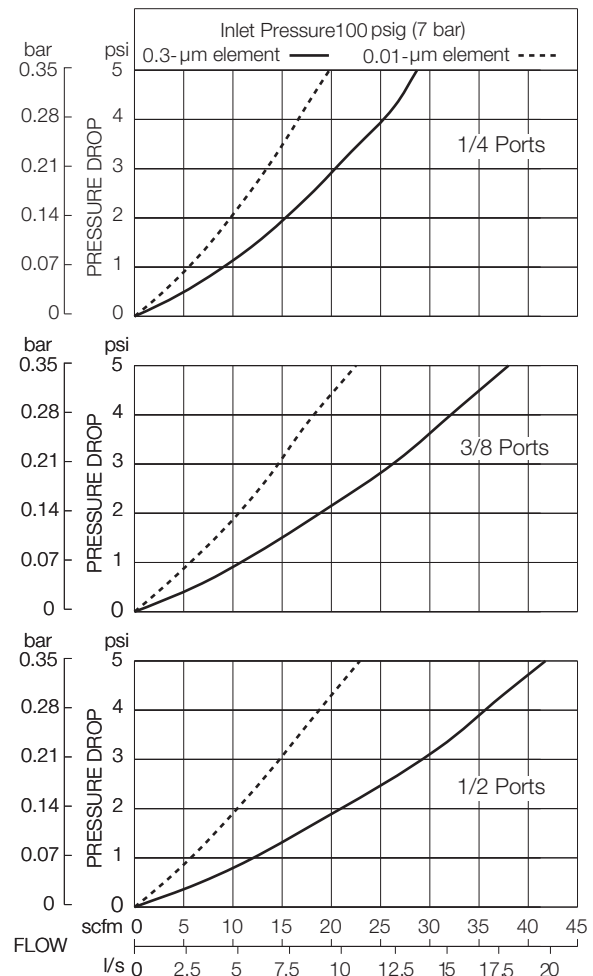
### Inlet Pressure:

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

**Seals:** Nitrile.

- ◆ Modular or inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m-rated element.
- ◆ High-strength polycarbonate plastic filter bowl with zinc shatterguard; optional zinc bowl.
- ◆ Differential pressure gauge to indicate when filter element needs changing.
- ◆ Internal automatic drain; optional manual drain.
- ◆ **NPTF** port threads; optional **BSPP** threads.

## FLOW CHARTS

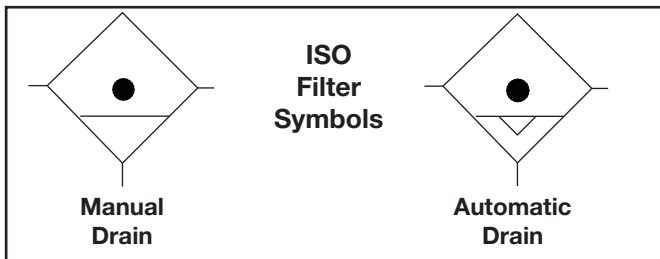
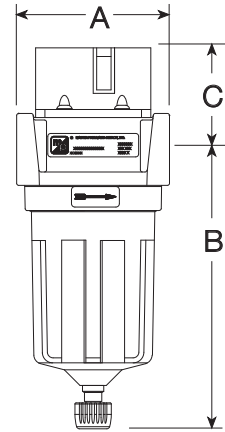


**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

**DIMENSIONS** inches (mm)

Bowl	Ports	A	B	C	Depth	Weight lb (kg)
Plastic	1/4 – 1/2	2.7 (67)	4.8 (122)	1.8 (46)	2.4 (60)	1.13 (0.51)
Metal	1/4 – 1/2	2.7 (67)	4.8 (122)	1.8 (46)	2.4 (60)	1.65 (0.75)

**Note:** Remove 1.23 (31) from (C) dimension if no differential pressure gauge is ordered.

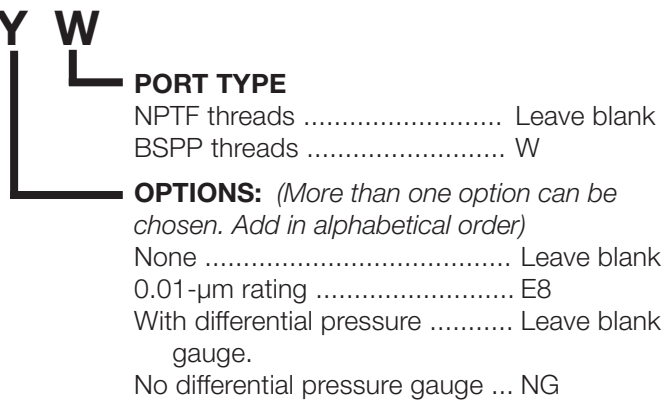
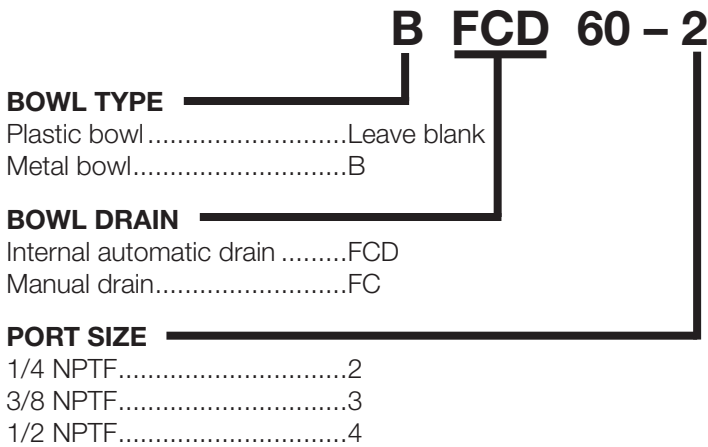


**REPLACEMENT FILTER ELEMENT KITS**

Element Rating	Kit Number
0.3 µm (Std element).....	60F-23
0.01 µm For models with E8 option.....	60F-23E8

**ORDERING INFORMATION**

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





# GUARDSMAN II Modular Coalescing Filters

# BFCD70 Models Port Sizes: 1/4, 3/8, 1/2



Model Shown: BFCD70-4

## SPECIFICATIONS

### Ambient/Media Temperature:

Manual & auto drains: 40° to 175°F (4° to 79°C).  
Float drains: 40° to 150°F (4° to 66°C).

### Body:

Zinc.

**Bowl:** 6-Ounce (180-ml) capacity aluminum with clear nylon sight glass. Bowl can be rotated for easy readability. Optional 10-ounce (300-ml) extended aluminum bowl has higher capacity filter element for increased air flow.

### Bowl Drain:

Internal automatic drain; optional manual drain and internal float drain.

### Bowl Ring:

Nylon.

### Differential Pressure Gauge:

A60F-28.

**Filter Element:** 0.3- $\mu\text{m}$ -rated borosilicate-glass-fiber coalescing element. Optional 0.01- $\mu\text{m}$ -rated element (reduces flow by 20%).

### Fluid Media:

Compressed air.

### Inlet Pressure:

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

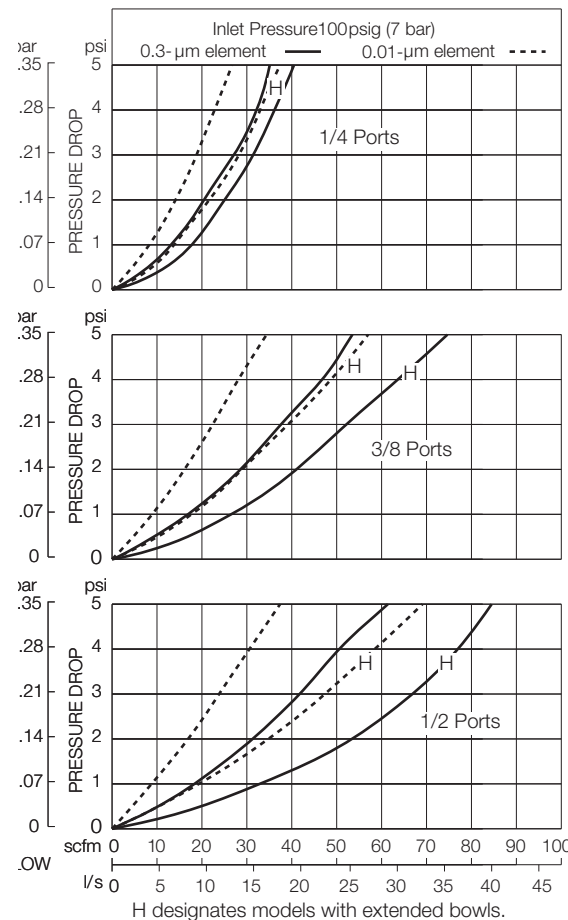
Maximum: 200 psig (14 bar).

### Seals:

Nitrile.

- ◆ Modular or inline mounting.
- ◆ 0.3- $\mu\text{m}$ -rated coalescing filter element; optional 0.01- $\mu\text{m}$ -rated element.
- ◆ Aluminum bowl with clear nylon sight glass. Bowl can be rotated for easy readability.
- ◆ Optional extended bowl with higher flow filter element.
- ◆ Differential pressure gauge to indicate when filter element needs changing.
- ◆ Internal automatic drain; optional manual drain and internal float drain.
- ◆ NPTF port threads; optional BSPP threads.

## FLOW CHARTS

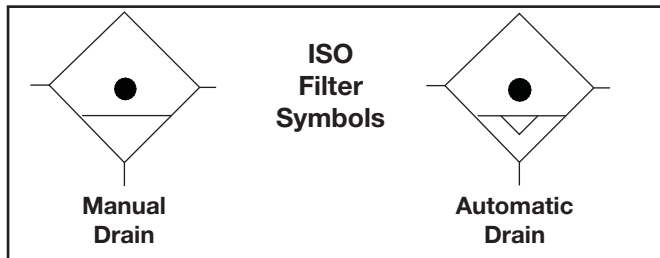
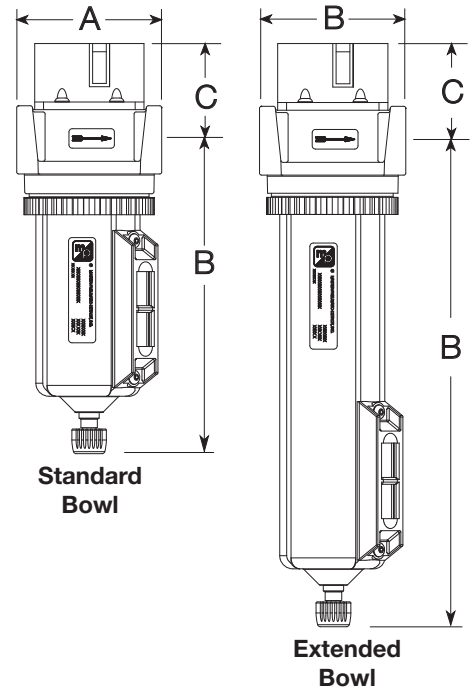


**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## DIMENSIONS inches (cm)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard	2.7 (67)	6.5 (165)	1.8 (45)	2.4 (60)	1.75 (0.80)
Extended	2.7 (67)	9.5 (241)	1.8 (45)	2.4 (60)	2.00 (0.91)

**Note:** Remove 1.23 (3.2) from (C) dimension if no differential pressure gauge is ordered.



## REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
0.3 µm Standard bowl (Std element).....	A60F-29
0.3 µm Extended bowl (Std element) .....	A60F-32
0.01 µm Standard bowl .....	A60F-29E8
0.01 µm Extended bowl.....	A60F-32E8

## ORDERING INFORMATION

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

**B F C D 70 - 2 Y W**

### BOWL and DRAIN TYPE

Metal bowl, internal automatic drain ..... B F C D  
 Metal bowl, manual drain ..... B F C  
 Metal bowl, internal internal float drain ..... B F C 6 A  
 (Brass stem).

### BOWL SIZE

Standard 6-ounce bowl ..... 70  
 Extended 10-ounce bowl with higher flow ... 70 H  
 filter element.

### PORT TYPE

NPTF threads ..... Leave blank  
 BSPP threads ..... W

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

0.3-µm rating ..... Leave blank  
 0.01-µm rating ..... E8  
 With differential pressure ..... Leave blank  
 gauge.  
 No differential pressure gauge .. NG

### PORT SIZE

1/4 NPTF ..... 2  
 3/8 NPTF ..... 3  
 1/2 NPTF ..... 4

# SERIES 350 Modular Coalescing Filters

# FC350 Models Port Sizes: 1/4, 3/8, 1/2



## Available Color Caps

**Yellow**  
(standard)



**Red**  
(optional)



**Blue**  
(optional)



**Grey**  
(optional)



**Model Shown:** FC5A350-3C1

## SPECIFICATIONS

### Ambient/Media Temperature:

Plastic Bowl, all drain types: 40° to 125°F (4° to 52°C).  
Metal Bowl, manual drains: 40° to 175°F (4° to 79°C).  
Metal Bowl, float drains: 40° to 150°F (4° to 66°C).

**Body:** Die-cast zinc.

**Bowl:** 5.1-Ounce (151-ml) capacity polycarbonate plastic with nylon shatterguard; optional 6.0 ounce (177-ml) aluminum bowl with clear nylon sight glass. Optional 10-ounce (300-ml) extended aluminum bowl with clear nylon sight glass and higher flow filter element.

**Bowl Drain:** Internal float drain; by removing the adjustment knob, a 3/16" (5mm) flexible tube can be connected to drain effluents. Optional manual drain.

**Cap Color:** Yellow, optional red, blue and grey.

**Differential Pressure Gauge:** A125-09

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber; optional 0.01- $\mu$ m-rated element (reduces flow by 20%).

**Fluid Media:** Compressed air.

### Inlet Pressure:

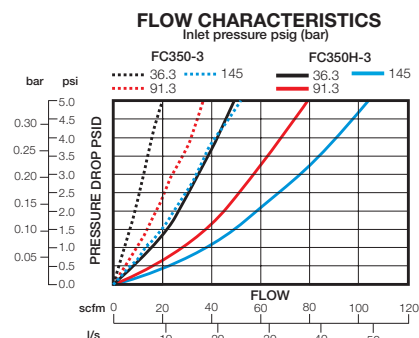
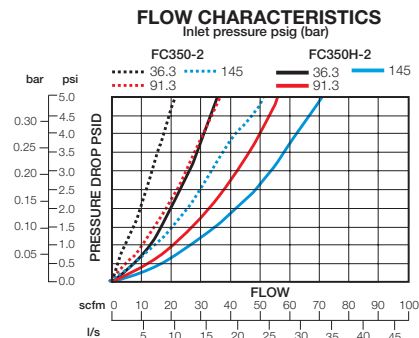
Plastic bowl & manual drain: 0-150 psig (0-10 bar).  
Plastic bowl & Float drain: 30-150 psig (2-10 bar).  
Metal bowl & manual drain: 0-250 psig (0-17 bar).  
Metal bowl & Float drain: 30-200 psig (2-14 bar).

**Seals:** Nitrile.

- ◆ Modular or inline mounting.
- ◆ Designed to remove particulate material 99.98% of free oils and solid contaminants 0.3 microns and larger.
- ◆ Optional 0.01- $\mu$ m-rated element.
- ◆ Removal of effluents via manual or automatic drains.
- ◆ Inlet pressure rated at 250 psig (17 bar) with metal bowls up to 175°F (79°C).
- ◆ Color caps available for visual management systems. (Blue, red, yellow and grey). Consult factory for custom colors.
- ◆ Front mounted modular clamping design with encapsulated screws.
- ◆ Compatible with modular 380 series of products.
- ◆ Coalescent elements are absolute rated.
- ◆ Polycarbonate plastic bowl with shatterguard. Optional metal bowl.
- ◆ Differential pressure gauge to indicate when filter element needs changing.
- ◆ NPTF port threads; optional BSPP threads.

**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

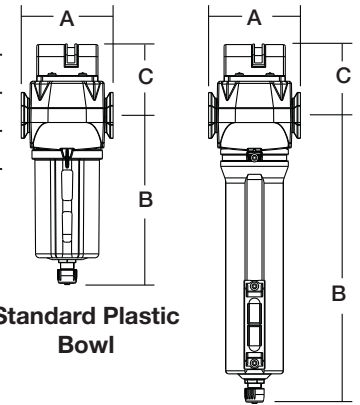
## FLOW CHARTS



## DIMENSIONS inches (mm)

Bowl	A	B †	C	Depth	Weight lb (kg)
Std plastic	3.0 (76.2)	5.54 (140.7)	2.33 (59.3)	2.51 (63.8)	1.30 (0.59)
Std metal	3.0 (76.2)	6.42 (163.1)	2.33 (59.3)	2.76 (70.1)	1.42 (0.65)
Ext metal	3.0 (76.2)	9.51 (241.6)	2.33 (59.3)	2.76 (70.1)	1.54 (0.70)

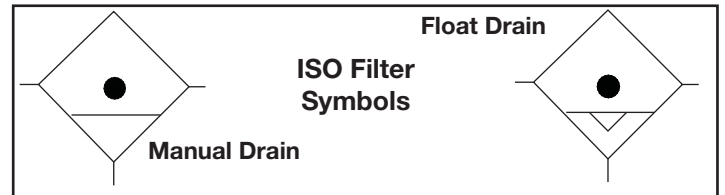
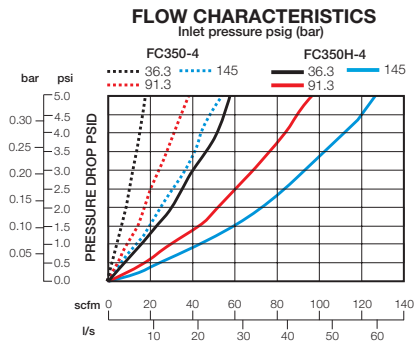
† **Bowl (standard) removal clearance:** add 3.1 (79)  
 † **Bowl (extended) removal clearance:** add 6.1 (155)



### REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
0.3 µm Standard for plastic bowl	A60F-23
0.3 µm Standard for metal bowl	A60F-29
0.3 µm Extended for metal bowl	A60F-32
0.01 µm Standard for plastic bowl	A60F-23E8
0.01 µm Standard for metal bowl	A60F-29E8
0.01 µm Extended metal bowl	A60F-32E8

**Extended Metal Bowl**



## ORDERING INFORMATION

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

# BFC 350 H S - 3 E8 W

### BOWL AND DRAIN TYPE

- (Metal bowls contain a sight glass)
- Plastic bowl, manual drain ..... FC
  - Metal bowl, manual drain ..... BFC
  - Plastic bowl, internal float drain (**plastic stem**) ... FC5A
  - Metal bowl, internal float drain (**brass stem**) ..... BFC6A

### BOWL LENGTH

- Standard length ..... Leave Blank
  - Extended bowl length ..... H
- (Must be used with metal bowl option shown in **BOWL AND DRAIN TYPE**).

### DIFFERENTIAL PRESSURE GAUGE

- No gauge (No gauge ports) ..... Leave Blank
- Differential pressure gauge ..... S

### PORT TYPE

- NPTF threads ..... Leave blank
- BSP threads ..... W

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

#### Cap color:

- Yellow (standard) ..... C1
- Red ..... C2
- Mid blue ..... C3
- Grey ..... Leave Blank

#### Filter element: (borosilicate-glass-fiber)

- 0.3-µm rating ..... Leave Blank
- 0.01-µm rating ..... E8

#### PORT SIZE

- 1/4 NPTF ..... 2
- 3/8 NPTF ..... 3
- 1/2 NPTF ..... 4

# Full-Size VANGUARD Modular Coalescing Filters

# FC101 Models Port Sizes: 1/4, 3/8, 1/2



Model Shown: FC101-2

## 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:** Zinc.

**Bowl:** 8-Ounce (240-ml) capacity polycarbonate plastic with steel shatterguard; optional zinc bowl with clear nylon sight glass. Optional 20-ounce (600-ml) extended polycarbonate or zinc bowl has higher flow filter element.

**Bowl Drain:** Manual. Optional internal automatic drain and internal float drain.

**Bowl Ring:** Aluminum.

**Differential Pressure Gauge:** Small 103-151.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu$ m-rated element.

**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.

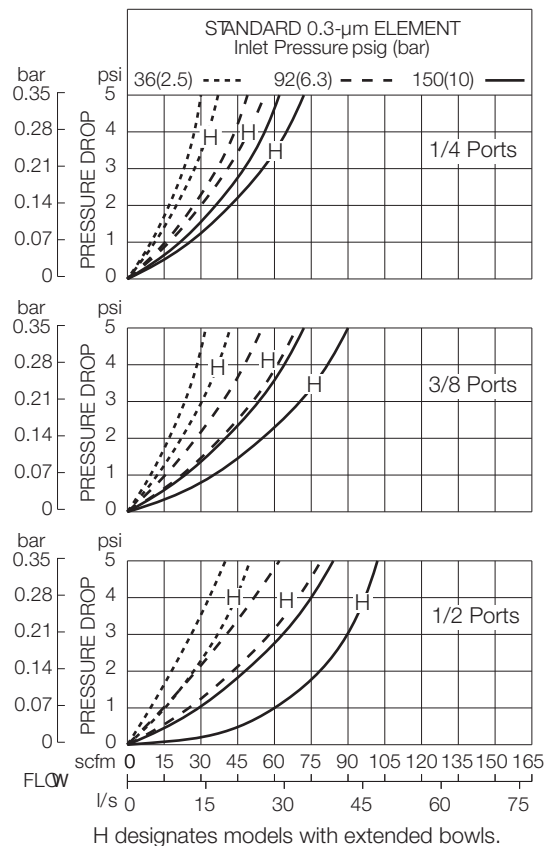
Metal Bowl: 200 psig (14 bar) maximum.

**Seals:** Nitrile.

- ◆ Modular or inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m element.
- ◆ Differential pressure gauge.
- ◆ High-strength polycarbonate plastic filter bowl with steel shatterguard; optional metal bowl with clear nylon sight glass.
- ◆ Optional extended bowl with higher flow filter element.
- ◆ Manual filter drain; optional internal automatic drain and internal float drain.
- ◆ NPTF port threads; optional BSPP threads.

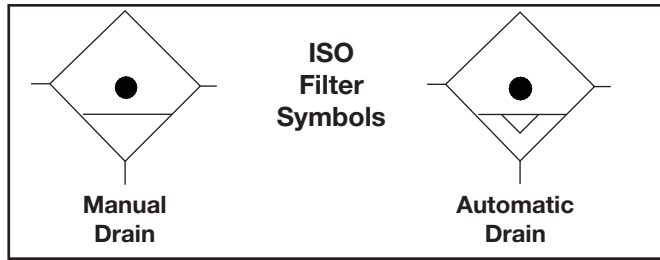
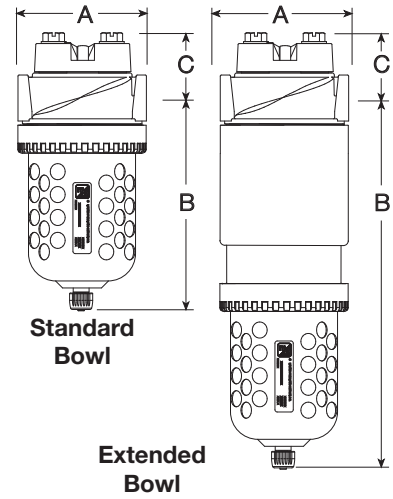
**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## FLOW CHARTS



## DIMENSIONS inches (mm)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard	3.5 (89)	5.8 (146)	1.8 (45)	3.5 (89)	2.13 (0.95)
Extended	3.5 (89)	10.3 (260)	1.8 (45)	3.5 (89)	3.25 (1.54)



## REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
0.3 µm Standard bowl (Std element).....	A103-160
0.3 µm Extended bowl .....	A103-160L
Models with E8 option:	
0.01 µm Standard bowl .....	A103-160E8
0.01 µm Extended bowl .....	A103-160LE8

## BFC 101 - 2 Y W

### BOWL AND DRAIN TYPE

- Plastic bowl, internal automatic drain ..... FCD
- Metal bowl, internal automatic drain ..... BCD
- Plastic bowl, manual drain ..... FC
- Metal bowl, manual drain ..... BFC
- Plastic bowl, internal float drain ..... FC5A
- Metal bowl, internal float drain ..... BFC6A

### BOWL SIZE and DIFFERENTIAL PRESSURE GAUGE

#### Standard Bowls:

- Tapped ports on head, no gauge ..... 101  
(Add 'NG' option under **OPTION** section).
- Tapped ports on head, small gauge ..... 101
- Tapped ports on head, large gauge ..... 101L
- Tapped ports on head, large gauge ..... 101E  
with normally **OPEN** reed switch.
- Tapped ports on head, large gauge ..... 101E2  
with normally **CLOSED** reed switch.

#### Extended Bowls:

- Tapped ports on head, no gauge ..... 101H  
(Add 'NG' option under **OPTION** section).
- Tapped ports on head, small gauge ..... 101H
- Tapped ports on head, large gauge ..... 101HL
- Tapped ports on head, large gauge ..... 101HE  
with normally **OPEN** reed switch.
- Tapped ports on head, large gauge ..... 101HE2  
with normally **CLOSED** reed switch.

### PORT TYPE

- NPTF threads ..... Leave blank
- BSPP threads ..... W

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

#### Filter element:

- 0.3-µm rating ..... Leave Blank
- 0.01-µm rating ..... E8
- No bowl drain ..... LDC  
(1/4 NPT female port instead. Also use 'BFC' option under **BOWL and DRAIN TYPE** section.)
- No differential gauge ..... NG  
(Add '101' option under **BOWL SIZE and DIFFERENTIAL PRESSURE GAUGE** section).

### PORT SIZE

- 1/4 NPTF ..... 2
- 3/8 NPTF ..... 3
- 1/2 NPTF ..... 4

## 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)

# Full-Size SERIES 380 Modular Coalescing Filters

# FCD380 Models Port Sizes: 3/8, 1/2, 3/4

## Available Color Caps



Model Shown: FCD380S-4

## 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:** Die-cast zinc.

**Bowl:** 9-Ounce (270-ml) capacity polycarbonate plastic with steel shatterguard; optional aluminum bowl with clear nylon sight glass. Optional 15-ounce (450-ml) extended aluminum bowl with a clear nylon sight glass and higher flow filter element.

**Bowl Drain:** Internal automatic drain; optional manual drain, internal float drain, or Warrior electronic drain.

**Bowl Ring:** Nylon.

**Cap Color:** Grey. Yellow, red, and blue optional.

**Differential Pressure Gauge:** Small K103-151.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber; optional 0.01- $\mu$ m-rated element (reduces flow by 20%).

**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).

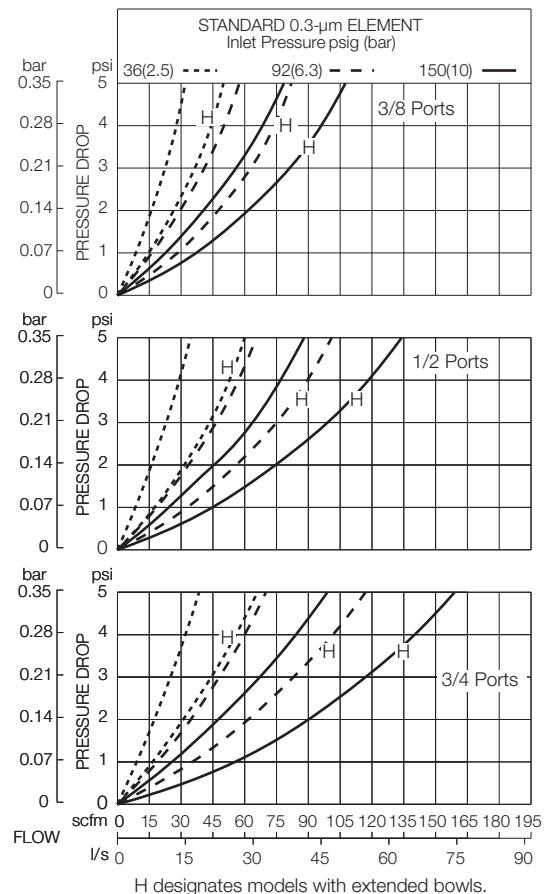
Metal bowl: 200 psig (14 bar).

**Seals:** Nitrile.

- ◆ Modular or inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m-rated element.
- ◆ Polycarbonate plastic bowl with steel shatter-guard; optional metal bowl with sight glass.
- ◆ Optional extended metal bowl with higher capacity filter element included.
- ◆ Differential pressure gauge to indicate when filter element needs changing.
- ◆ Internal automatic bowl drain; optional manual drain, internal float drain, or Warrior electronic drain.
- ◆ NPTF port threads; optional BSPP threads.

**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

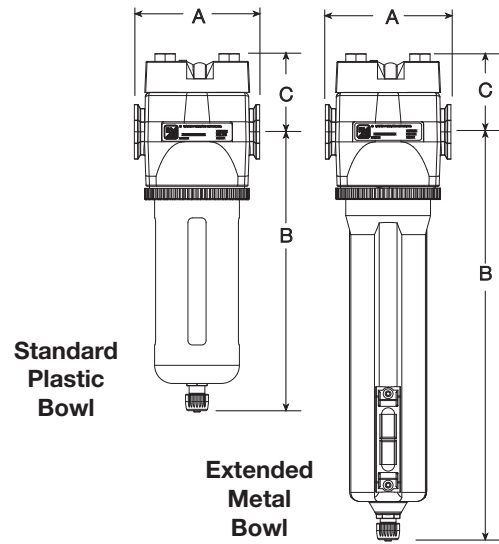
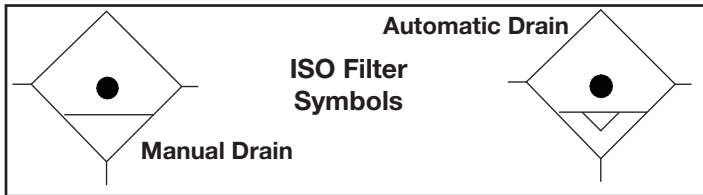
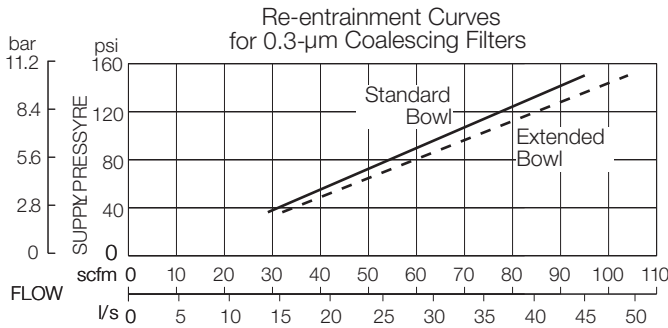
## FLOW CHARTS



## DIMENSIONS inches (mm)

Bowl	A	B †	C	Depth	Weight lb (kg)
Polycarbonate	3.5 (88)	7.7 (195)	2.2 (55)	2.9 (73)	2.13 (0.97)
9-Ounce Metal	3.5 (88)	7.6 (193)	2.2 (55)	3.1 (79)	2.13 (0.97)
Extended Metal	3.5 (88)	11.2 (284)	2.2 (55)	3.1 (79)	2.31 (1.05)

† Bowl removal clearance: add 3.1 (79) for 9-ounce bowl; 6.1 (155) for extended bowl.



## REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
0.3 µm Standard bowl	A115-117
0.3 µm Extended bowl	A115-118
0.01 µm Standard bowl	A115-117E8
0.01 µm Extended bowl	A115-118E8

## ORDERING INFORMATION

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

# B F C D 380 S - 3 Y W

### BOWL AND DRAIN TYPE (Metal bowls

contain a sight glass)

- Plastic bowl, internal automatic drain ..... FCD
- Metal bowl, internal automatic drain ..... B F C D
- Plastic bowl, manual drain ..... F C
- Metal bowl, manual drain ..... B F C
- Plastic bowl, internal float drain (plastic stem) ... F C 5 A
- Metal bowl, internal float drain (brass stem) ..... B F C 6 A
- Metal bowl, warrior electronic drain ..... B F C 2 A

### BOWL SIZE and DIFFERENTIAL PRESSURE GAUGE

#### Standard Bowls - 9 ounce:

- Tapped ports on head, no gauge ..... 380
- Tapped ports on head, small gauge ..... 380 S
- Tapped ports on head, large gauge ..... 380 L
- Tapped ports on head, large gauge ..... 380 E
- with normally **OPEN** reed switch.
- Tapped ports on head, large gauge ..... 380 E 2
- with normally **CLOSED** reed switch.

#### Extended Bowls - 15 ounce high flow:

(Only available with metal bowl option. Also use 'B' options under **BOWL AND DRAIN TYPE** section.)

- Tapped ports on head, no gauge ..... 380 H
- Tapped ports on head, small gauge ..... 380 H S
- Tapped ports on head, large gauge ..... 380 H L
- Tapped ports on head, large gauge ..... 380 H E
- with normally **OPEN** reed switch.
- Tapped ports on head, large gauge ..... 380 H E 2
- with normally **CLOSED** reed switch.

### PORT TYPE

- NPTF threads ..... Leave blank
- BSPP threads ..... W

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

Add in alphabetical order.)

- None ..... Leave Blank

### Cap color:

- Grey ..... Leave Blank
- Yellow ..... C1
- Red ..... C2
- Blue ..... C3

### Filter element:

- 0.3-µm rating ..... Leave Blank
  - 0.01-µm rating ..... E8
  - No bowl drain ..... LDC
- (1/4 NPT female port instead. Also use 'BFC' option under **BOWL AND DRAIN TYPE** section.)

### PORT SIZE

- 3/8 NPTF ..... 3
- 1/2 NPTF ..... 4
- 3/4 NPTF ..... 6



# High-Flow VANGUARD Coalescing Filters

# FCD101 Models Port Sizes: 3/4, 1



Model Shown: FCD101-6

## 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 and internal float drain.

**Bowl Ring:** Aluminum.

**Differential Pressure Gauge:** 106-35.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu$ m-rated element.

**Fluid Media:** Compressed air.

### Inlet Pressure:

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

Plastic Bowl: 150 psig (10 bar) maximum.

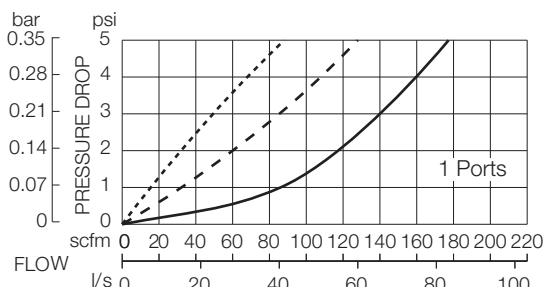
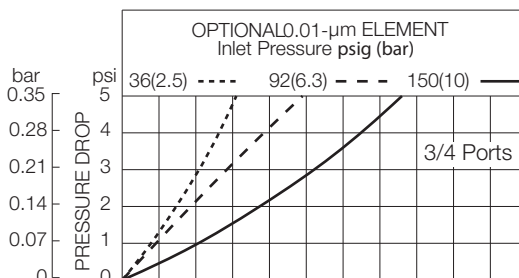
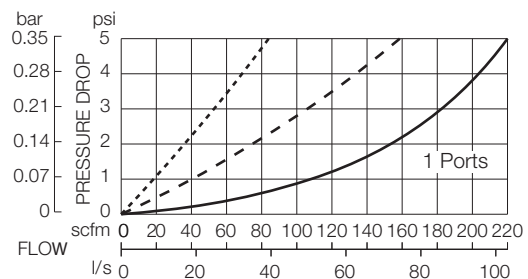
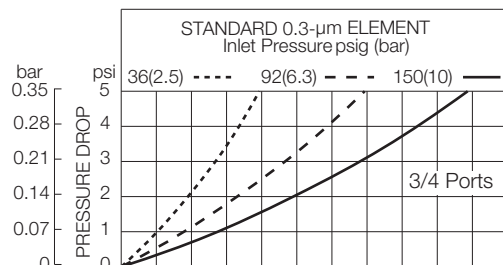
Metal Bowl: 200 psig (14 bar) maximum.

**Seals:** Nitrile.

- ◆ Inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m element.
- ◆ Differential pressure gauge.
- ◆ High-strength polycarbonate plastic filter bowl with steel shatterguard; optional aluminum bowl with clear nylon sight glass.
- ◆ Internal automatic drain; optional manual drain and internal float drain.
- ◆ NPTF port threads; optional BSPP threads.

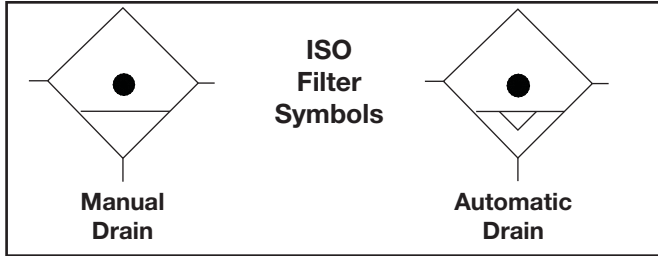
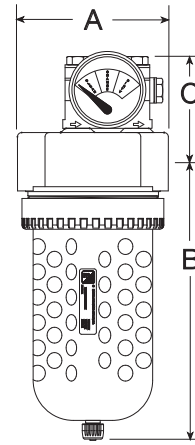
**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## FLOW CHARTS



## DIMENSIONS inches (cm)

Bowl	A	B	C	Depth	Weight lb (kg)
Plastic	4.5 (114)	8.0 (203)	3.1 (78)	4.5 (114)	2.38 (1.09)
Metal	4.5 (114)	8.3 (210)	3.1 (78)	4.5 (114)	3.20 (1.46)



## REPLACEMENT FILTER ELEMENT KITS

Element Rating	Kit Number
0.3 µm (Std element)	A109-106
0.01 µm	
For models with E8 option	A109-106E8

## ORDERING INFORMATION

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

**B F C D 101 - 6 Y W**

### BOWL AND DRAIN TYPE

- Plastic bowl, internal automatic drain ..... FCD
- Metal bowl, internal automatic drain ..... B F C D
- Plastic bowl, manual drain ..... FC
- Metal bowl, manual drain ..... BFC
- Plastic bowl, internal float drain ..... FC5A  
*(plastic stem)*
- Metal bowl, internal float drain ..... BFC6A  
*(brass stem)*

### DIFFERENTIAL PRESSURE GAUGE

- Tapped ports on head, no gauge ..... 101  
(Add 'NG' option under **OPTION** section).
- Tapped ports on head, small gauge ..... 101S
- Tapped ports on head, large gauge ..... 101
- Tapped ports on head, large gauge ..... 101E  
with normally **OPEN** reed switch.
- Tapped ports on head, large gauge ..... 101E2  
with normally **CLOSED** reed switch.

### PORT TYPE

- NPTF threads ..... Leave blank
- BSPF threads ..... W

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

- None ..... Leave Blank

### Filter element:

- 0.3-µm rating ..... Leave Blank
- 0.01-µm rating ..... E8
- No bowl drain ..... LDC  
(1/4 NPT female port instead. Also use 'BFC' or 'FC' option under **BOWL and DRAIN TYPE** section.)

- No differential gauge ..... NG

(Add '101' option under **BOWL SIZE and DIFFERENTIAL PRESSURE GAUGE** section).

### PORT SIZE

- 3/4 NPTF ..... 6
- 1 NPTF ..... 8

## 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)

# High-Flow VANGUARD Coalescing Filters

# BFCD201 Models Port Sizes: 3/4, 1



Model Shown: BFCD201-6

## SPECIFICATIONS

### Ambient/Media Temperature:

Manual & auto drains: 40° to 175°F (4° to 79°C).  
Float drains: 40° to 150°F (4° to 66°C).

**Body:** Aluminum.

**Bowl:** 35-Ounce (1050-ml) capacity aluminum bowl. Optional 62-ounce (1860-ml) extended aluminum bowl has higher capacity filter element for increased air flow.

### Bowl Drain:

Internal automatic drain; optional manual drain and internal float drain.

**Bowl Ring:** Aluminum.

**Differential Pressure Gauge:** Large 106-35.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu$ m-rated element.

**Fluid Media:** Compressed air.

### Inlet Pressure:

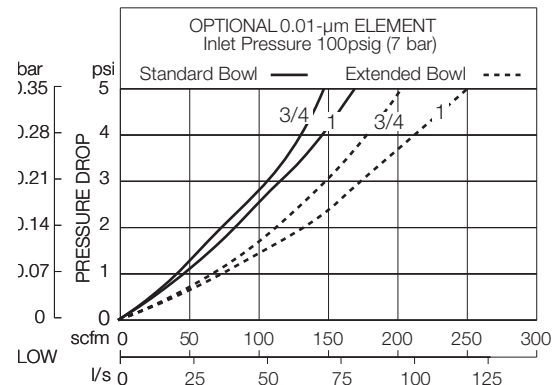
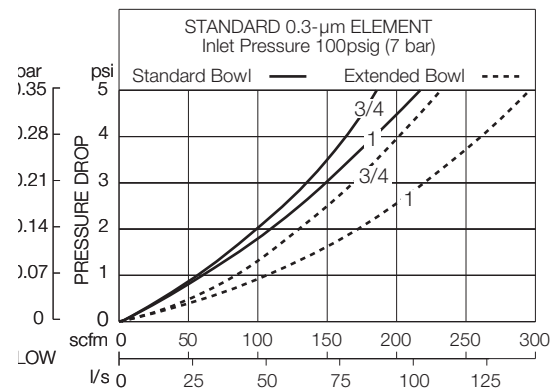
Minimum: 15 psig (1 bar) with automatic drain, 30 psig (2 bar) with internal float drain.  
200 psig (14 bar) maximum.

**Seals:** Nitrile.

- ◆ Inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m element.
- ◆ Differential pressure gauge.
- ◆ Aluminum bowl.
- ◆ Internal automatic drain; optional manual drain and internal float drain.
- ◆ NPTF port threads; optional BSPP threads.

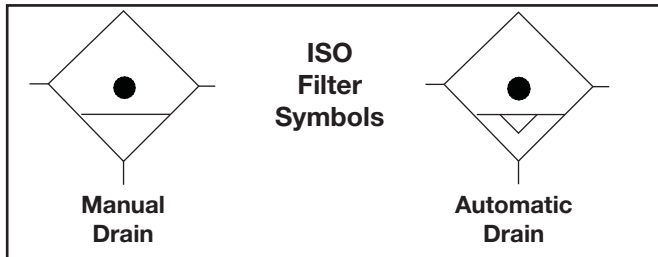
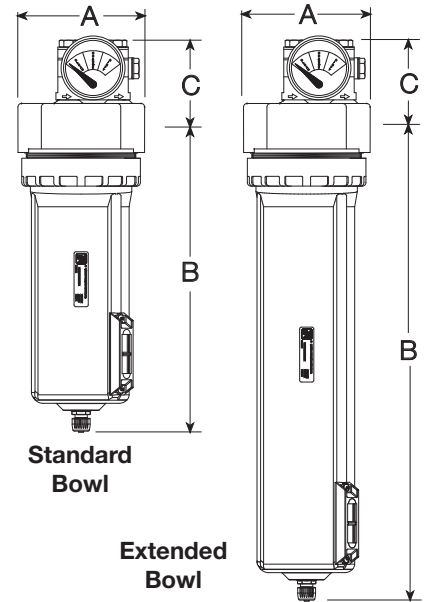
**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## FLOW CHARTS



## DIMENSIONS inches (mm)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard	4.5 (114)	10.1 (257)	3.3 (83)	4.2 (106)	3.50 (1.59)
Extended	4.5 (114)	15.7 (399)	3.3 (83)	4.2 (106)	4.25 (1.91)



### ORDERING INFORMATION

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

**B F C D 201 - 6 Y W**

#### BOWL DRAIN

- Internal automatic drain ..... B F C D
- Manual Drain ..... B F C
- Internal Float drain (*brass stem*) .... B F C 6 A

#### BOWL SIZE & DIFFERENTIAL PRESSURE GAUGE

- Standard bowl, no gauge..... 201  
Also add 'NG' under **Option Menu**.
- Standard bowl & large gauge ..... 201
- Standard bowl & small gauge ..... 201S
- Standard bowl & large gauge with .. 201E  
normally open reed switch.
- Standard bowl & large gauge with .. 201E2  
normally closed reed switch.
- Extended bowl, no gauge..... 201H  
Also add 'NG' under **Option Menu**.
- Extended bowl & large gauge ..... 201H
- Extended bowl & small gauge ..... 201HS
- Extended bowl & large gauge with .. 201HE  
normally open reed switch.
- Extended Bowl & large gauge with .. 201HE2  
normally closed reed switch.

#### PORT SIZE

- 3/4 NPTF ..... 6
- 1 NPTF ..... 8

### REPLACEMENT FILTER ELEMENT KITS

Model	Element Rating	Kit Number
Standard bowl	0.3-µm (Std element)	A114-112
With E8 option	0.01-µm	A114-112E8
Extended bowl	0.3-µm	A114-113
With E8 option	0.01-µm	A114-113E8

#### PORT TYPE

- NPTF threads ..... Leave blank
- BSPF threads ..... W

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

- None ..... Leave blank
- 0.3-µm-rated element ..... Leave blank
- 0.01-µm-rated element ..... E8
- No bowl drain ..... LDC  
**(1/4-NPT female port instead.)**  
Use 'BFC' option under **BOWL DRAIN** menu.
- No differential pressure gauge ... NG

#### 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*)

# High-Flow VANGUARD Coalescing Filters

# BFCD201 Models Port Sizes: 1-1/4, 1-1/2



Model Shown: BFCD201-10

## SPECIFICATIONS

### Ambient/Media Temperature:

Manual & auto drains: 40° to 175°F (4° to 79°C).  
Float drains: 40° to 150°F (4° to 66°C).

**Body:** Aluminum.

**Bowl:** 35-Ounce (1050-ml) capacity aluminum bowl.  
Optional 62-ounce (1860-ml) extended aluminum bowl has higher capacity filter element for increased air flow.

### Bowl Drain:

Internal automatic drain; optional manual drain and internal float drain.

**Bowl Ring:** Aluminum.

**Differential Pressure Gauge:** Large 106-35.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu$ m-rated element.

**Fluid Media:** Compressed air.

### Inlet Pressure:

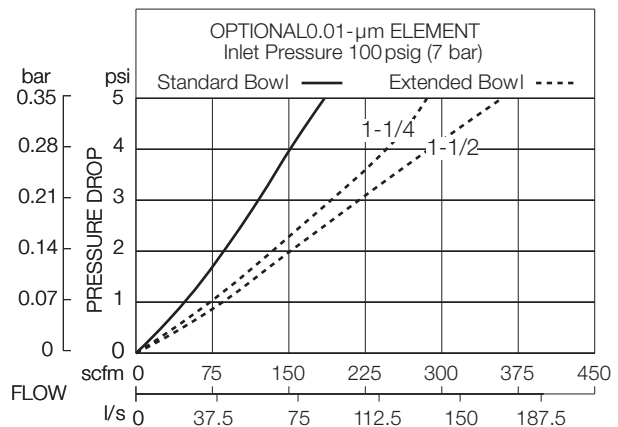
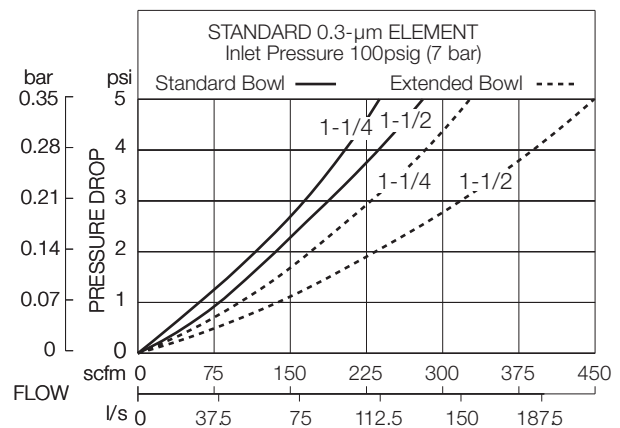
Minimum: 15 psig (1 bar) with automatic drain, 30 psig (2 bar) with internal float drain.  
Maximum: 200 psig (14 bar)

**Seals:** Nitrile.

- ◆ Inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m element.
- ◆ Differential pressure gauge.
- ◆ Aluminum bowl. Optional extended bowl with higher flow element.
- ◆ Internal automatic drain; optional manual drain and internal float drain.
- ◆ NPTF port threads; optional BSPP threads.

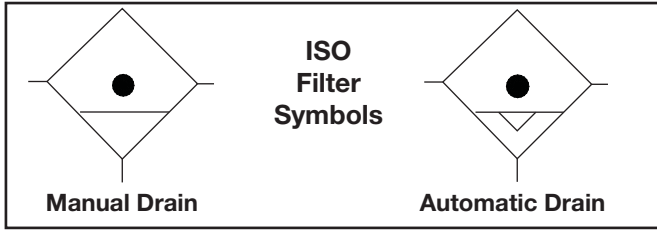
**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## FLOW CHARTS



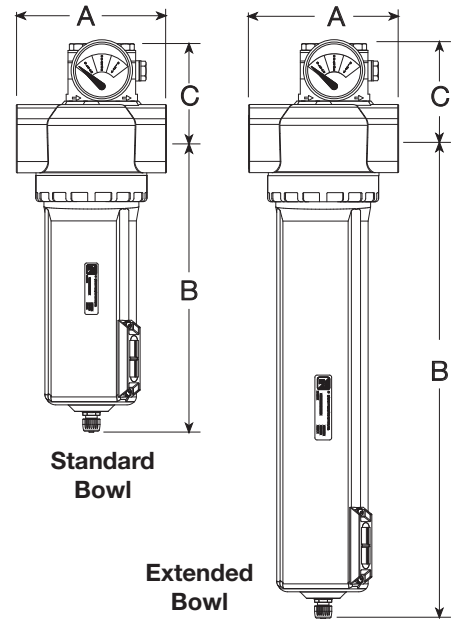
## DIMENSIONS inches (mm)

Bowl	A	B	C	Depth	Weight lb (kg)
Standard	5.5 (140)	10.6 (270)	3.7 (94)	4.2 (106)	4.31 (1.94)
Extended	5.5 (140)	16.2 (412)	3.7 (94)	4.2 (106)	5.00 (2.27)



## REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
0.3 µm Standard bowl (Std element)	A114-112
0.3 µm Extended bowl	A114-113
Models with E8 option:	
0.01 µm Standard bowl	A114-112E8
0.01 µm Extended bowl	A114-113E8



## ORDERING INFORMATION

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

**BFC D 201 - 10 Y W**

### BOWL DRAIN

Internal automatic drain ..... BFC D  
 Manual Drain ..... BFC  
 Internal Float drain (*brass stem*) ..... BFC6A

### BOWL SIZE & DIFFERENTIAL

#### PRESSURE GAUGE

Standard bowl, no gauge..... 201  
 Also add 'NG' under **Option Menu**.  
 Standard bowl & large gauge ..... 201  
 Standard bowl & small gauge ..... 201S  
 Standard bowl & large gauge with ..... 201E  
 normally open reed switch.  
 Standard bowl & large gauge with ..... 201E2  
 normally closed reed switch.  
 Extended bowl, no gauge..... 201H  
 Also add 'NG' under **Option Menu**.  
 Extended bowl & large gauge ..... 201H  
 Extended bowl & small gauge ..... 201HS  
 Extended bowl & large gauge with ..... 201HE  
 normally **open** reed switch.  
 Extended Bowl & large gauge with ..... 201HE2  
 normally **closed** reed switch.

### PORT TYPE

NPTF Threads ..... Leave blank  
 BSPF Threads ..... W

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

None ..... Leave blank  
 0.3-µm-rated element ..... Leave blank  
 0.01-µm-rated element ..... E8  
 No bowl drain ..... LDC

**(1/4-NPT female port instead.)**

Use 'BFC' option under **BOWL DRAIN** menu.

No differential pressure gauge ..... NG

### PORT SIZE

1-1/4 NPTF ..... 10  
 1-1/2 NPTF ..... 12

## 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*)

# High-Flow VANGUARD Coalescing Filters



Model Shown: BFC6A401L-10

## SPECIFICATIONS

### Ambient/Media Temperature:

**Manual drain:** 40° to 175°F (4° to 79°C).

**Float drain:** 40° to 150°F (4° to 66°C).

**Body:** Aluminum.

**Bowl:** 120-Ounce (3548ml) capacity aluminum bowl.  
Optional 230-ounce (6802ml) extended aluminum bowl has higher flow filter element.

### Bowl Drain:

Internal automatic float drain; optional manual drain.

**Differential Pressure Gauge:** 106-35.

**Filter Element:** 0.3- $\mu$ m-rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu$ m-rated element.

**Fluid Media:** Compressed air.

### Inlet Pressure:

**Float drain:** 30 psig (2.1 bar) minimum 200 psig (14 bar) maximum.

**Manual drain:** 0 psig (0 bar) minimum 300 psig (21 bar) maximum.

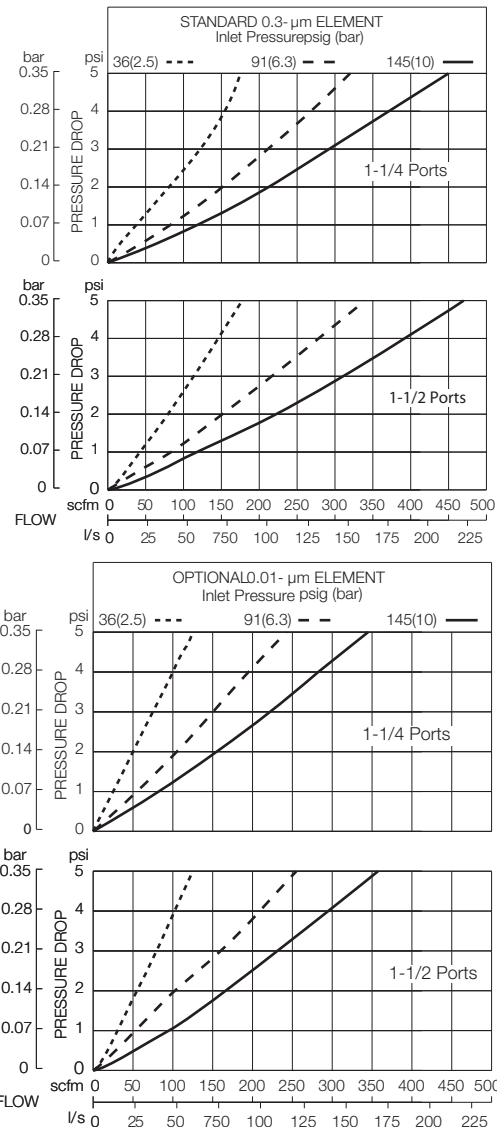
**Seals:** Nitrile.

# BFC6A401 Models Port Sizes: 1-1/4, 1-1/2

- ◆ Inline mounting.
- ◆ 0.3- $\mu$ m-rated coalescing filter element; optional 0.01- $\mu$ m element.
- ◆ Differential pressure gauge.
- ◆ Aluminum bowl.
- ◆ Optional extended bowl with higher capacity filter element for greater air flow.
- ◆ Internal float drain; optional manual drain.
- ◆ NPTF port threads; optional BSPP threads.

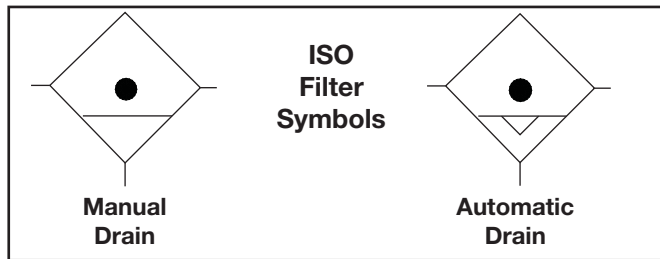
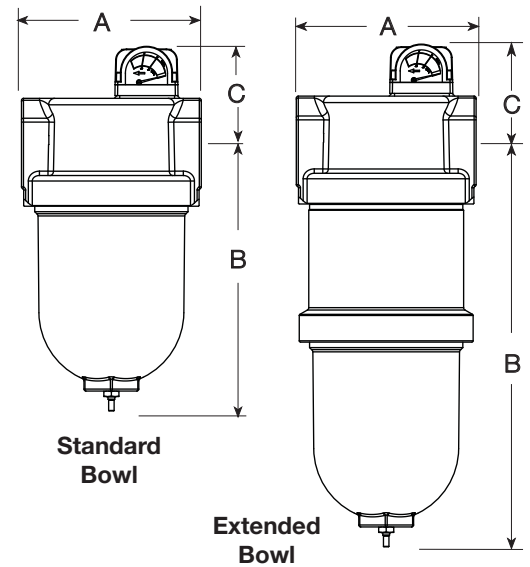
**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## FLOW CHARTS



## DIMENSIONS inches (mm)

Bowl	A	B *	C	Depth	Weight * lb (kg)
Standard	8.1 (204.7)	12 (305.1)	4.6 (117.4)	8 (203.2)	17 (7.8)
Extended	8.1 (204.7)	18.3 (465.1)	4.6 (117.4)	8 (203.2)	26 (11.8)



## REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
0.3 µm Standard bowl (Std element)	A106-24
0.3 µm Extended bowl	A106-24L
Models with E8 option:	
0.01 µm Standard bowl	A106-24E8
0.01 µm Extended bowl	A106-24LE8

## ORDERING INFORMATION

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

**B FC6A 401 H L - 10 E8 W**

### DRAIN TYPE

Internal automatic float drain (*brass stem*) ...FC6A  
 Manual Drain ..... FC  
 No drain (*less drain cock*) ..... FC7A

### BOWL SIZE

Standard Bowl ..... Leave Blank  
 Extended Bowl ..... H

### DIFFERENTIAL PRESSURE GAUGE

No gauge ..... Leave Blank  
 Large differential pressure gauge ... L  
 Small differential pressure gauge ... S  
 Large differential pressure gauge ... E  
 with normally open reed switch.  
 Large differential pressure gauge ... E2  
 with normally closed reed switch.

### PORT TYPE

NPTF ..... Leave Blank  
 BSPP ..... W

### ELEMENT TYPE

0.3-µm element ..... Leave Blank  
 0.01-µm element ..... E8

### PORT SIZE

1-1/4 NPTF ..... 10  
 1-1/2 NPTF ..... 12

## DIFFERENTIAL PRESSURE GAUGES



Small Slide Gauge  
K103-151



Large Dual Face Gauge  
106-35



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



# High-Flow VANGUARD Coalescing Filters

# BFC6A401H Model Port Size: 2



Model Shown: BFC6A401HL-16

## SPECIFICATIONS

### Ambient/Media Temperature:

**Manual drain:** 40° to 175°F (4° to 79°C).

**Float drain:** 40° to 150°F (4° to 66°C).

**Body:** Aluminum.

**Bowl:** 230-Ounce (6802ml) capacity aluminum bowl; has higher flow filter element.

### Bowl Drain:

Internal automatic float drain; optional manual drain.

**Differential Pressure Gauge:** 106-35.

**Filter Element:** 0.3- $\mu\text{m}$ -rated borosilicate-glass-fiber coalescing element; optional 0.01- $\mu\text{m}$ -rated element.

**Fluid Media:** Compressed air.

### Inlet Pressure:

**Float drain:** 30 psig (2.1 bar) minimum 200 psig (14 bar) maximum.

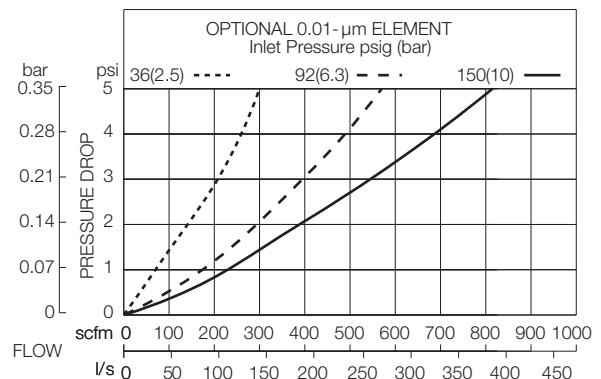
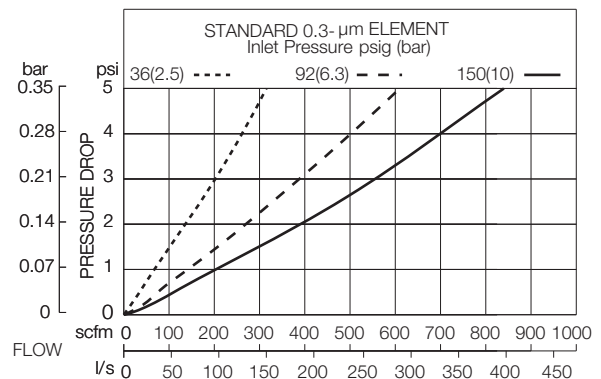
**Manual drain:** 0 psig (0 bar) minimum 300 psig (21 bar) maximum.

**Seals:** Nitrile.

- ◆ Inline mounting.
- ◆ 0.3- $\mu\text{m}$ -rated coalescing filter element; optional 0.01- $\mu\text{m}$  element.
- ◆ Differential pressure gauge.
- ◆ Aluminum bowl.
- ◆ Internal float drain; optional manual drain.
- ◆ **NPTF** port threads; optional **BSPP** threads.

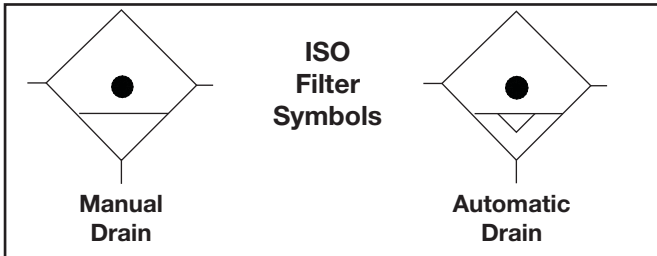
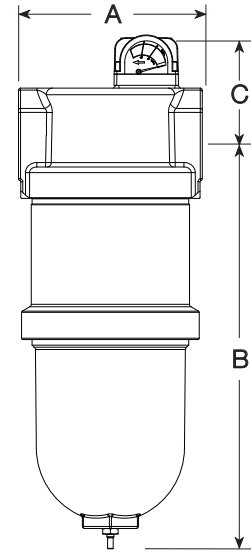
**APPLICATION NOTE:** A general purpose filter must be installed ahead of a coalescing filter to ensure good performance and to extend the life of the coalescing element.

## FLOW CHARTS



**DIMENSIONS** inches (cm)

A	B *	C	Depth	Weight * lb (kg)
8.1 (204.7)	18.3 (465.1)	4.6 (117.4)	8.0 (203.2)	26 (11.8)



**REPLACEMENT FILTER ELEMENT KITS**

Element Rating	Kit Number
0.3 µm (Std element).....	A106-24L
0.01 µm For model with E8 option.....	A106-24LE8

**ORDERING INFORMATION**

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

**B FC6A 401H L - 16 E8 W**

**DRAIN TYPE**

- Internal automatic float drain (*brass stem*) ...FC6A
- Manual Drain ..... FC
- No drain (*less drain cock*) ..... FC7A

**DIFFERENTIAL PRESSURE GAUGE**

- No gauge ..... Leave Blank
- Large differential pressure gauge ... L
- Small differential pressure gauge ... S
- Large differential pressure gauge ... E  
with normally open reed switch.
- Large differential pressure gauge ... E2  
with normally closed reed switch.

**PORT TYPE**

- NPTF ..... Leave Blank
- BSPP ..... W

**ELEMENT TYPE**

- 0.3-µm element ..... Leave Blank
- 0.01-µm element ..... E8

**PORT SIZE**

- 2 NPTF ..... 16

**DIFFERENTIAL PRESSURE GAUGES**



Small Slide Gauge  
K103-151



Large Dual Face Gauge  
106-35



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



**บริษัท ฟลูเทค จำกัด**  
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