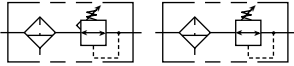


# Compressed Air Filters

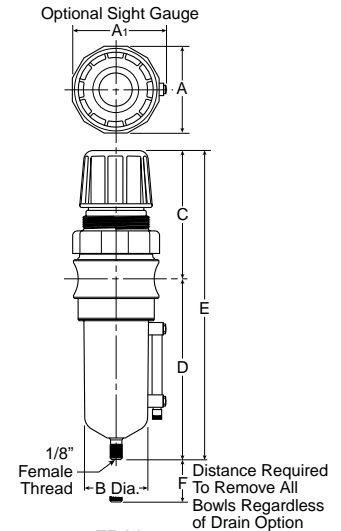
## Air Preparation Units - FB11 Filter/Regulator - Standard 1/2" Ports



B11

### Features

- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- 1/8" female threaded drain.
- Meets NACE specifications MR-01-75/ISO-15156.
- Low temperature version available.
- High Flow: 1/2" - 72 SCFM<sup>§</sup>



FB11

Port Size	Adjustment Type	NPT		BSPP	
		Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
1/2"	<b>Metal Bowl with Sight Gauge</b>				
	Knob	<b>FB11-04WGCSS</b>	<b>FB11-04WGRSS</b>	FB11G04WGCSS	FB11G04WGRSS

FB11 Piggyback Dimensions		
<b>A</b> 2.34 (60)	<b>A1</b> 2.50 (64)	<b>B</b> 1.75 (44)
<b>C</b> 3.59 (91)	<b>D</b> 5.00 (127)	<b>E</b> 8.59 (218)
<b>F</b> 2.12 (54)		

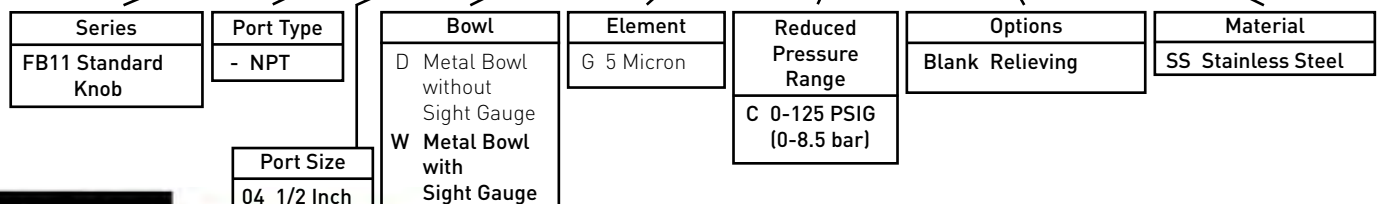
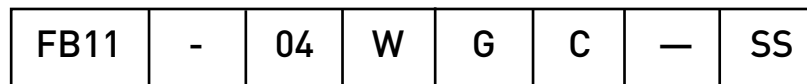
Standard part numbers shown bold. For other models refer to ordering information below.

<sup>§</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 15 PSIG pressure drop.

inches (mm)  
NOTE: 1.75 Dia. (44mm) hole required for panel mounting.

<b>WARNING</b>
<p>Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.</p>

### Ordering Information

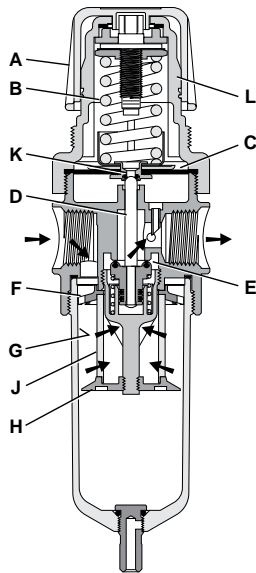


# Compressed Air Filters

## Air Preparation Units - FB11 Filter/Regulators

### Technical Information

#### Operation



Turning the adjusting knob clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration".

Air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit. Pressure in the downstream line is sensed below the diaphragm (C) and offsets the load of spring (B). When downstream pressure reaches the set-point, poppet valve assembly (D) and diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). [This occurs in the standard relieving type filter/regulators only.]

#### Technical Information

#### CAUTION:

**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design.

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

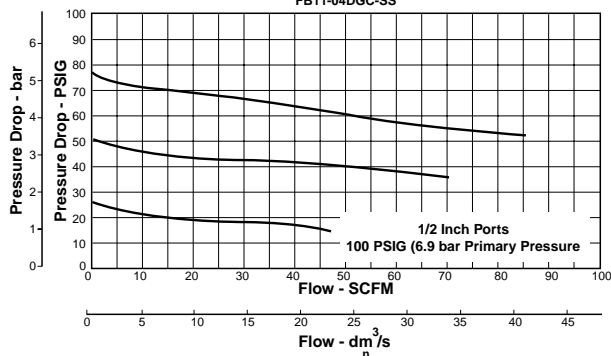
#### FB11 Regulator Kits & Accessories

FB11 Bonnet Kit (Knob Included) .....	CKR10YSS
Drain Kit –	
Automatic Float Drain .....	SA602MDSS
Manual Twist Drain .....	SA600Y7-1SS
Filter Element Kit –	
Particulate (5 Micron).....	EKF10VY
Gauge –	
160 PSIG (0 to 1100 kPa), 2" Face.....	K4520N14160SS
Panel Mount Bracket (Stainless).....	R10Y57-SS
Panel Mount Nut –	
Stainless .....	R10X51-SS
Plastic .....	R10X51-P
Service Kit –	
Relieving .....	RKR10YSS
Spring –	
0-125 PSIG Range .....	SPR-389-1-SS

#### Materials of Construction

Adjustment Mechanism / Springs .....	316 Stainless Steel
Body .....	316 Stainless Steel
Bonnet / Knob (B11) .....	Acetal
Bottom Plug .....	316 Stainless Steel
Poppet .....	316 Stainless Steel
Seals .....	Fluorocarbon
Sight Gauge .....	Isoplast

Flow Characteristics  
FB11-04DGC-SS



#### Specifications

Bowl Capacity .....	4.0 Ounces
Filter Rating .....	5 Micron
Gauge Port .....	1/4 Inch
Operation .....	Fluorocarbon Diaphragm
Port Threads .....	1/2 Inch
Pressure & Temperature Ratings –	
Metal Bowl (D) .....	300 PSIG Max (20.7 bar)
Metal Bowl (W) .....	0°F to 150°F (-18°C to 66°C)
Automatic Float Drain .....	15 to 175 PSIG (1 to 12 bar)
Automatic Float Drain .....	40°F to 125°F (4°C to 52°C)
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).	
Sump Capacity .....	1.7 Ounce
Weight .....	2.42 lb. (1.09 kg)