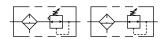
## **Compressed Air Filters**

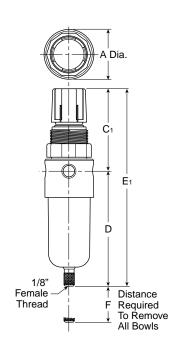
# Air Preparation Units - FB548 Filter/Regulator - Miniature 1/4" Ports





#### **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.
- High Flow: 1/4" 12 SCFM§
- \* Beginning January 2008



	FB548 Piggyback Dimensions		
<b>A</b> 1.56 (40)	<b>C</b> <sub>1</sub> 2.17 (55)	<b>D</b> 3.63 (92)	
<b>E</b> 1 3.06 (78)	<b>F</b> 1.58 (40)		

inches (mm) NOTE: 1.25 Dia. (32mm) hole required for panel mounting.

Port Size	NPT
1/4"	FB548-02DGCSS

<sup>\$</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.

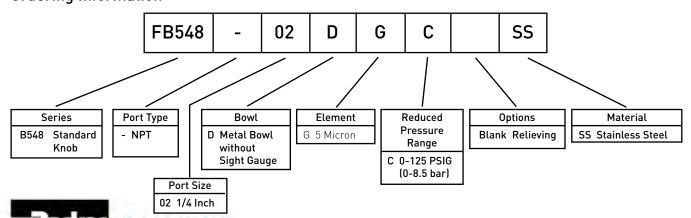
### **M** WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

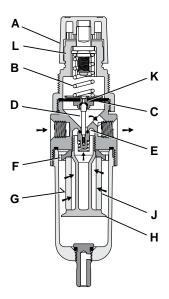
### **Ordering Information**



## **Compressed Air Filters**

# Air Preparation Units - FB548 Filter/Regulators Technical Information

### Operation



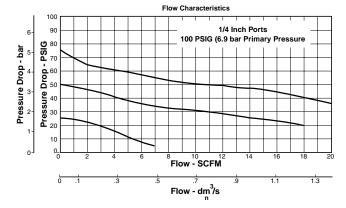
Turning the adjusting knob clockwise applies a load tocontrol spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration". Air pressure supplied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



FB548, Regulator Kits & Accessories

FB548 Bonnet Kit (Knob Included)	CKR364YSS			
Filter Element Kits –				
Particulate (5 Micron)	EK504VY			
Gauge –				
160 PSIG (0 to 1100 kPa), 2" Face	K4515N14160SS			
Manual Twist Drain	SA600Y7-1SS			
Panel Mount Bracket (Stainless)	161X57-SS			
Panel Mount Nut –				
Stainless	R05X51-SS			
Plastic	R05X51-P			
Service Kit –				
Relieving	RK549YSS			
-				
Springs –				
0-125 PSIG Range	SPR-377-1-SS			

Specifications

Bowl Capacity	1.0 Ounces			
Filter Rating	5 Micron			
Gauge Port	1/4 Inch			
Operation	Fluorocarbon Diaphragm			
Port Threads	1/4 Inch			
Pressure & Temperature Ratings –	300 PSIG Max (20.7 bar) 0°F to 150°F (-18°C to 66°C)			
<b>Note:</b> Air must be dry enough to avoid ice f below 32°F (2°C).	ormation at temperatures			
Sump Capacity	0.4 Ounce			
Weight	0.6 lb. (0.27 kg)			
Materials of Construction				
Adjustment Mechanism / Springs	316 Stainless Steel			
Body	316 Stainless Steel			
Bonnet (B548)	Acetal			
Bottom Plug	316 Stainless Steel			
Knob (B548)	Polypropylene			
Poppet	316 Stainless Steel			
CI-	Florence and a second			



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