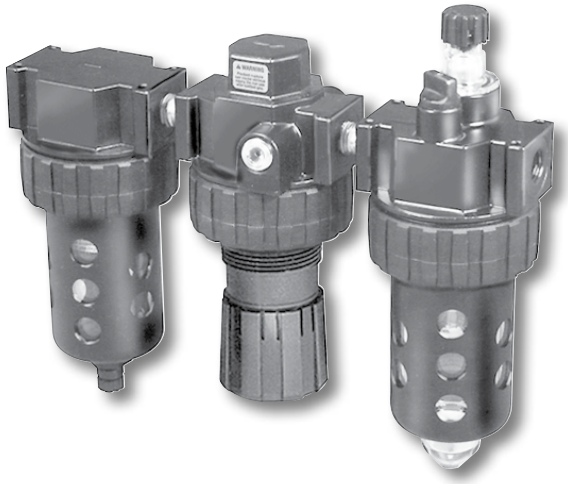
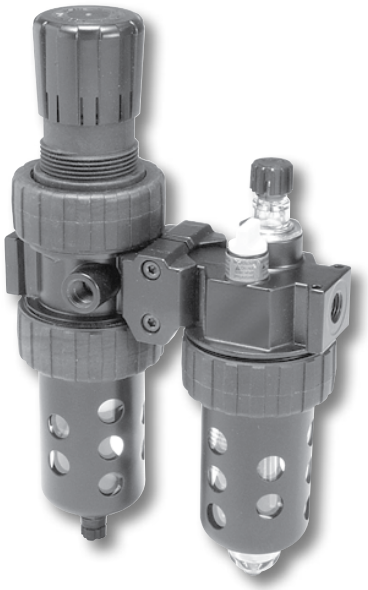




Air Preparation Units

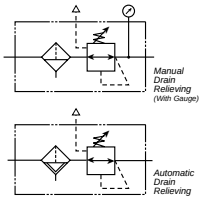
Filters, Regulators, and Lubricators

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Parker

ENGINEERING YOUR SUCCESS

Filter / Regulators



- Pipe Sizes 1/8 thru 3/4 Inch
- Flows to 90 SCFM
- Pressures to 250 PSIG

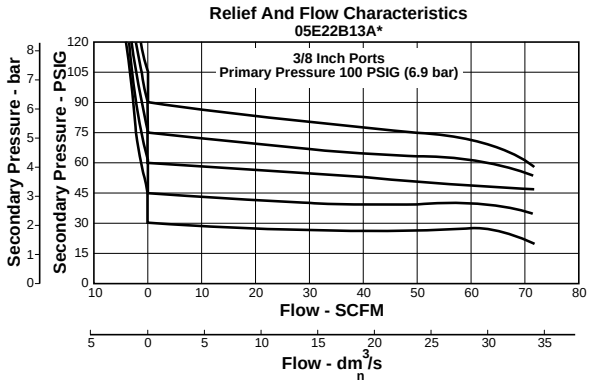
Integral Filter / Regulators are an excellent choice where accurate pressure regulation and high moisture removal efficiency are required in a space saving package.

- Miniature 14E Series, 1/8 and 1/4 Inch
- Miniature F10E Series, 1/8 and 1/4 Inch
- Miniature FB548 Stainless Series, 1/4 Inch
- Economy 05E Series, 1/4 and 3/8 Inch
- Compact 06E Series, 1/4, 3/8 and 1/2 Inch
- Standard FB11 Stainless Series, 1/2 Inch
- Standard 07E Series, 3/8, 1/2 and 3/4 Inch
- Standard / Coalescing F12E Series, 3/8, 1/2 and 3/4 Inch

Filter / Regulator Selection

1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in SCFM.
3. Refer to flow chart and select filter/regulator by choosing the curve that offers minimum pressure drop at desired flow in SCFM.

Reading Flow Charts to Size Filter / Regulators



Once the required flow is determined for a pneumatic application the regulator or filter/regulator can be selected by using the flow chart. The chart serves two different purposes. To read the flow, use the right side of the chart. To read the relief characteristics use the left side of the chart. When reading the flow chart, first determine the secondary pressure that will be used. Find the appropriate pressure curve on the graph. Given an acceptable pressure drop for an application, follow the flow curve until it intersects the pressure drop point. This will give the flow at that particular pressure drop.

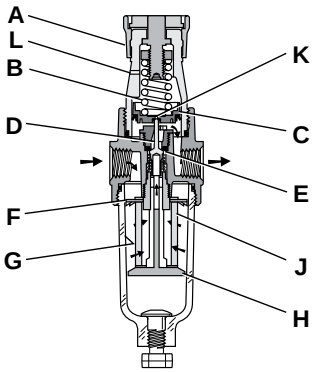
⚠ WARNING

Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

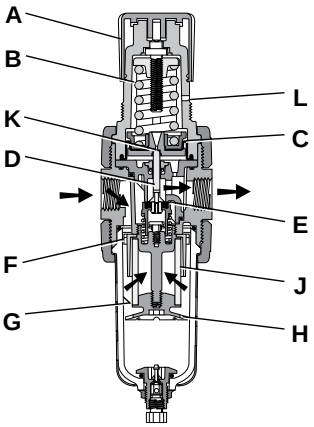
CAUTION:

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.

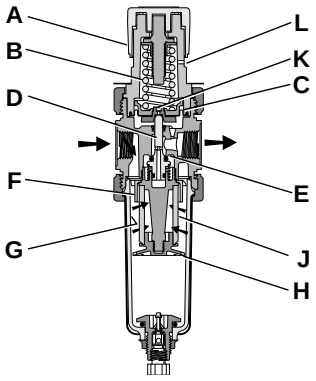


14E

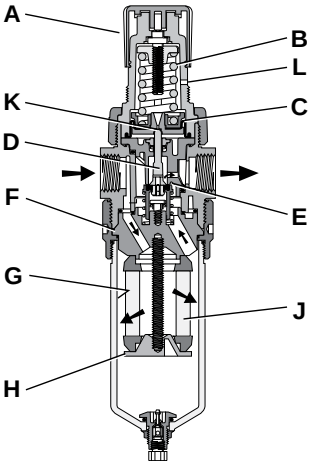


06E / 07E

Turning the knob **(A)** clockwise applies a load to control spring **(B)** which forces the piston/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" begins when 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 piston/diaphragm **(C)** and offsets the load of control spring **(B)**. When downstream pressure reaches the set-point, poppet valve assembly **(D)** and piston/diaphragm **(C)** move upward closing seat area **(E)**. Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the piston/ 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 regulator only.)

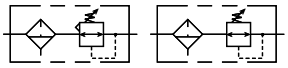


05E



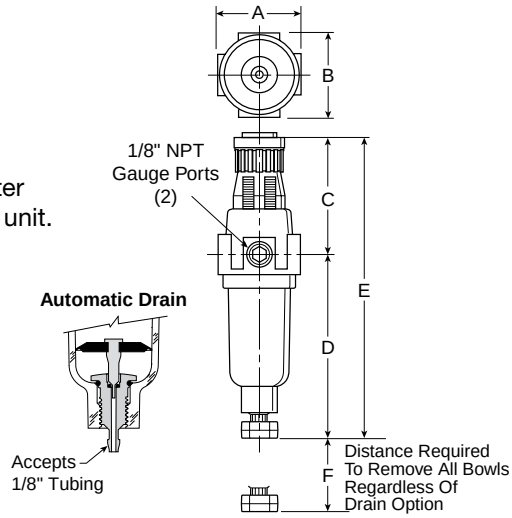
F12E

14E Filter / Regulator – Miniature



Features

- Excellent water removal efficiency.
- Unbalanced poppet standard.
- Solid control piston for extended life.
- Space saving package offers both filter and regulator features in one integral unit.
- Non-rising adjustment knob.
- Two full flow 1/8" gauge ports.
- High Flow: 1/8" – 16 SCFM§
  1/4" – 18 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Pulse Drain
Poly Bowl‡		
1/8"	**14E01B13F***	**14E05B13F***
1/4"	**14E11B13F***	**14E15B13F***
Metal Bowl		
1/8"	**14E03B13F***	**14E07B13F***
1/4"	**14E13B13F***	**14E17B13F***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

14E Filter / Regulator Dimensions		
A 1.62 (41)	**B** 1.58 (40)	**C** 2.42 (61)
D 3.79 (96)	**D†** 3.64 (92)	**E** 6.21 (158)
E† 6.06 (154)	**F** 1.60 (41)	

Inches (mm)
† With Auto Drain

Ordering Information

14E	1	1	B	13	F	*	—	—	---

Port Size
0 1/8 Inch
1 1/4 Inch

Bowl Options
Polycarbonate Bowl
1 Twist Drain
5 Automatic Drain
Metal Bowl
3 Twist Drain
7 Automatic Drain

Elements
B 5 Micron

Pressure Range
13 125 PSIG

Relief
F Relieving

Engineering Level
* Will be Entered at Factory

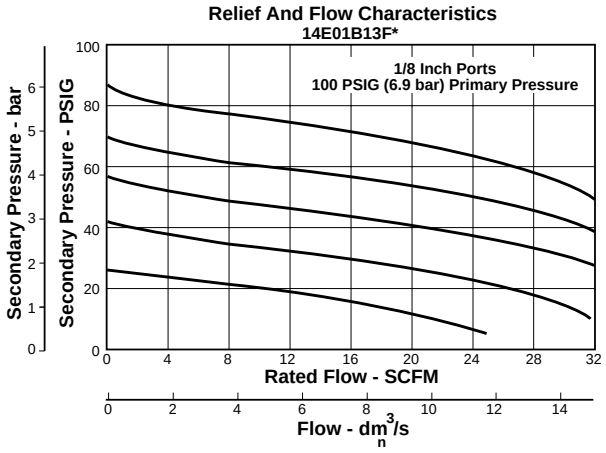
Port Type
Blank NPT

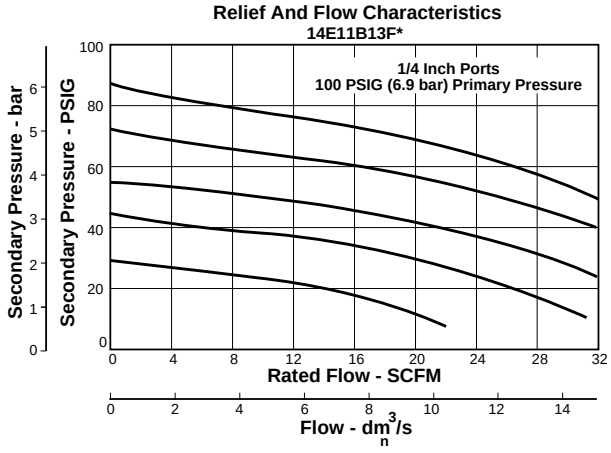
Options
Blank No Options

Inlet Pressure is 100 PSIG. For other pressures, contact factory.

Preset / Pressure Limited
Blank None

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.

⚠ WARNING

Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

14E Filter / Regulator Kits & Accessories

Bowl Kits –
Poly Bowl – Automatic Drain.....PS408BP
Twist Drain.....PS404P
Metal Bowl –Automatic Drain.....PS451BP
Twist Drain.....PS447BP

Filter Element Kits – Grade 6 (Box of 10).....6HR06-013 X 10
Grade 10 (Box of 10).....10HR06-013 X 10

Gauges – 160 PSIG (0 to 11.0 bar) K4515N18160
Mounting Bracket Kit (Includes Panel Mount Nut).....PS417BP
Panel Mount Nut P78652
Poppet Kit – Unbalanced PS424BP

Service Kit – Relieving PS423P
Springs – 2- 125 PSIG Range (Gold).....P01173

Specifications

Automatic Pulse Drain Tube Barb ..... 1/8 Inch
Bowl Capacity .....1 Ounce
Gauge Ports (2) (Can be used for Full Flow)..... 1/8 Inch
Port Threads.....1/8, 1/4 Inch

Pressure & Temperature Ratings –
Polycarbonate Bowl
0 to 150 PSIG (0 to 10.3 bar), 32°F to 125°F (0°C to 52°C)
Metal Bowl
0 to 250 PSIG (0 to 17.2 bar), 32°F to 175°F (0°C to 80°C)
Secondary Pressure Range –
Standard Pressure..... 2 to 125 PSIG (0 to 8.6 bar)

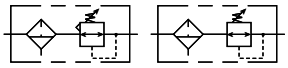
Weight.....0.4 lb. (0.18 kg)

Materials of Construction

Adjusting Nut..... Brass
Adjusting Stem & Spring ..... Steel
Body..... Zinc
Bonnet, Knob, Seat, Piston, Holder & Deflector .....Plastic
Bowls Available – Transparent ..... Polycarbonate
Metal (Without Sight Gauge) ..... Zinc
Drains – Manual – Twist Type
Body & Stem.....Plastic
Seals.....Nitrile
Automatic – Pulse Type
Piston & Seals.....Nitrile
Stem, Seat, Adaptor & Washers..... Aluminum
Filter Elements – 5 Micron (Standard) .....Plastic

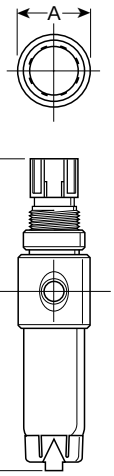
Seals .....Nitrile

F10E Filter / Regulator – Miniature



Features

- Excellent water removal efficiency.
- Unbalanced poppet standard.
- Solid control piston for extended life.
- Space saving package offers both filter and regulator features in one integral unit.
- Non-rising adjustment knob.
- Two full flow 1/8" gauge ports.
- High Flow: 1/8" – 16 SCFM§
  1/4" – 18 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Pulse Drain
Poly Bowl‡		
1/8"	**F10E0113E***	**F10E0513E***
1/4"	**F10E1113E***	**F10E1515E***
Metal Bowl		
1/8"	**F10E1313E***	**F10E0713E***
1/4"	**F10E1313E***	**F10E1713E***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

F10E Filter / Regulator Dimensions		
A 1.61 (41)	**B** 3.67 (93)	**B*** 4.18 (106)
C 3.14 (80)		

Inches (mm)
*Metal Bowl

Ordering Information

F10E	1	1	13	E	*	

Port Size
0 1/8 Inch
1 1/4 Inch

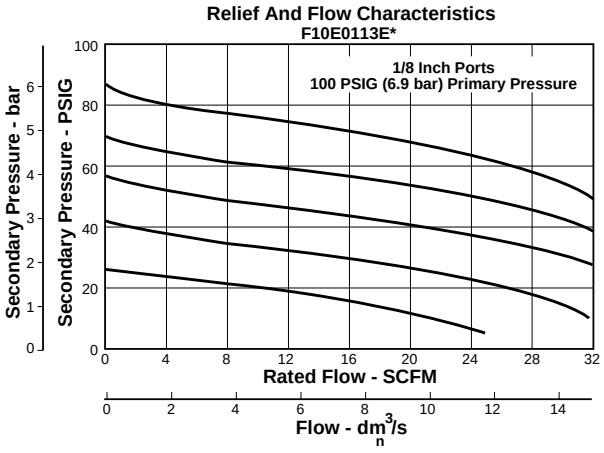
Bowl Options
Polycarbonate Bowl
1 Twist Drain
5 Automatic Drain
Metal Bowl
3 Twist Drain
7 Automatic Drain

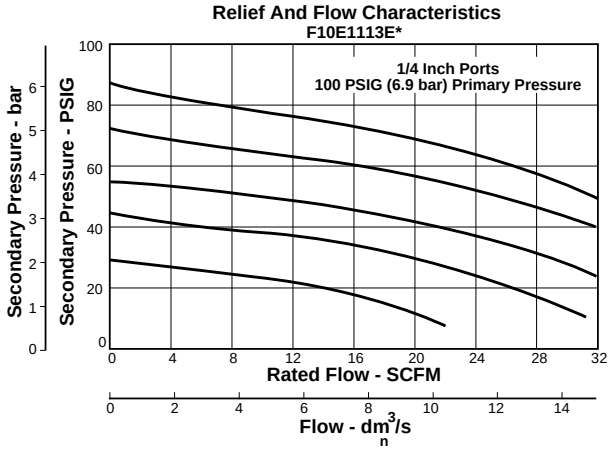
Pressure Range
13 125 PSIG

Element
E Grade 6 Coalescing Element
H Grade 10 Coalescing Element

Engineering Level
* Will be Entered at Factory

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.

⚠ WARNING

Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

F10E Filter / Regulator Kits & Accessories

For spare parts, please call our technical assistance department at 1-800-521-4357.

Specifications

Automatic Pulse Drain Tube Barb ..... 1/8 Inch
Bowl Capacity ..... 1 Ounce
Gauge Ports (2) (Can be used for Full Flow) ..... 1/8 Inch
Port Threads ..... 1/8, 1/4 Inch
Pressure & Temperature Ratings –
Polycarbonate Bowl
0 to 150 PSIG (0 to 10.3 bar), 32°F to 125°F (0°C to 52°C)
Metal Bowl
0 to 200 PSIG (0 to 13.8 bar), 32°F to 175°F (0°C to 80°C)
Secondary Pressure Range –
Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar)

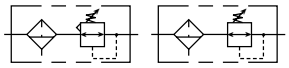
Weight ..... 0.4 lb. (0.18 kg)

Materials of Construction

Adjusting Nut ..... Brass
Adjusting Stem & Spring ..... Steel
Body ..... Zinc
Bonnet, Knob, Seat, Piston, Holder & Deflector ..... Plastic
Bowls Available – Transparent ..... Polycarbonate
Metal (Without Sight Gauge) ..... Zinc
Drains – Manual – Twist Type
Body & Stem ..... Plastic
Seals ..... Nitrile
Automatic – Pulse Type
Piston & Seals ..... Nitrile
Stem, Seat, Adaptor & Washers ..... Aluminum
Filter Elements – Coalescing (Standard) ..... Plastic

Seals ..... Nitrile

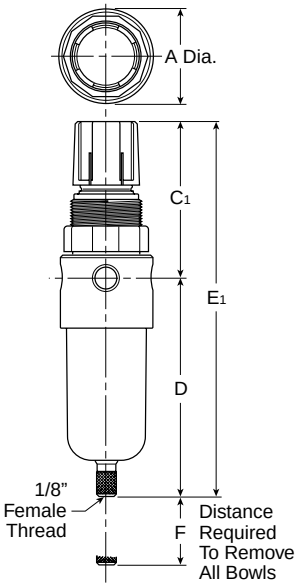
FB548 Filter / Regulator – Miniature



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



Port Size	NPT
1/4"	FB548-02DGCSS

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.

FB548 Piggyback Dimensions		
A 1.56 (40)	**C1** 2.17 (55)	**D** 3.63 (92)
E1 3.06 (78)	**F** 1.58 (40)	

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

⚠ WARNING

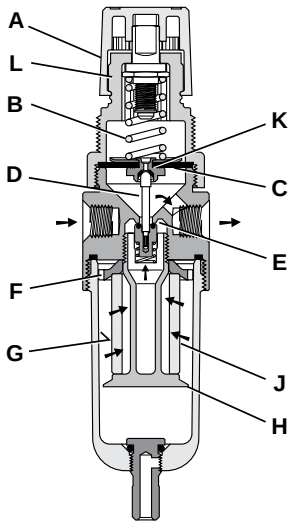
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

Ordering Information

FB548	-	02	D	G	C		SS

Series	Port Type	Port Size	Bowl	Element	Reduced Pressure Range	Options	Material
Standard Knob	- NPT	02 1/4 Inch	D Metal Bowl without Sight Gauge	G 5 Micron	C 0-125 PSIG (0-8.5 bar)	Blank Relieving	SS Stainless Steel

Operation



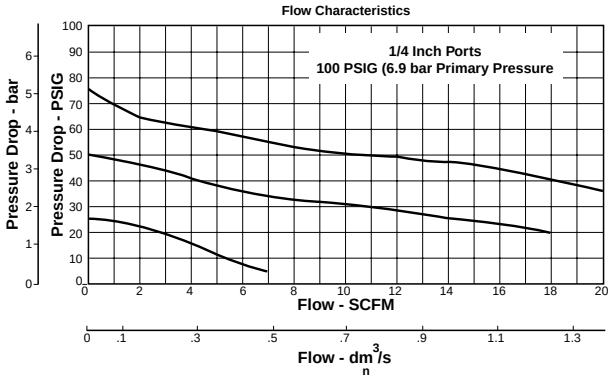
Turning the adjusting knob clockwise applies a load tocontrol spring **(B)** which forces diaphragm **(C)** and valve poppet assembly **(D)** to move downward allowing filtered air to flow through the seat area **(E)** created between the poppet assembly and the seat. **"First stage filtration".** Air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



FB548, Regulator Kits & Accessories

FB548 Bonnet Kit (Knob Included) CKR364YSS

Filter Element Kits –
Particulate (5 Micron) EK504VY

Gauge –
160 PSIG (0 to 1100 kPa), 1½" Face K4515N14160SS

Manual Twist Drain SA600Y7-1SS

Panel Mount Bracket (Stainless) 161X57-SS

Panel Mount Nut –
Stainless R05X51SS
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)

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

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

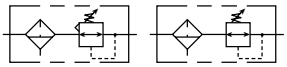
Bottom Plug ..... 316 Stainless Steel

Knob (B548) ..... Polypropylene

Poppet ..... 316 Stainless Steel

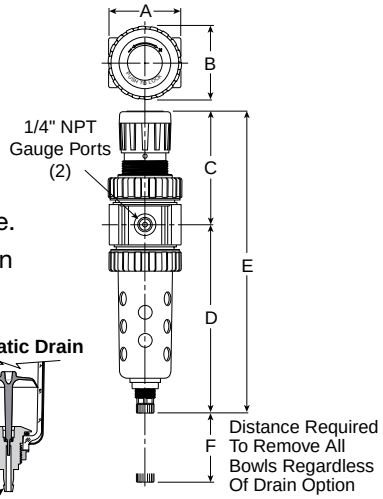
Seals ..... Fluorocarbon

05E Filter / Regulator – Economy



Features

- Space saving package offers both filter and regulator features for optimal performance.
- Excellent water removal efficiency.
- Rolling diaphragm for extended life.
- Removable non-rising knob for tamper resistance.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- 5 micron filter element standard,
- High Flow: 1/4" – 30 SCFM§
  3/8" – 40 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Pulse Drain
Poly Bowl‡ / Metal Guard		
1/4"	05E12B13A*	05E1PB13A*
3/8"	05E22B13A*	05E2PB13A*
Metal Bowl / Sight Gauge		
1/4"	05E14B13A*	05E1TB13A*
3/8"	05E24B13A*	05E2TB13A*

‡ For polycarbonate bowl see Caution on page 2.
§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.
NOTE: 1.53 Dia. (39mm) hole required for panel mounting.

⚠ WARNING

**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

05E Filter / Regulator Dimensions		
A	B	C
2.00 (51)	2.06 (52)	3.16 (80)
D†	E†	F
5.35 (136)	8.51 (216)	1.77 (45)

Inches (mm)
† With Twist Drain or Auto Pulse Drain

Ordering Information

05E	1	2	B	13	A	*	—	—	---

Port Size
1 1/4 Inch
2 3/8 Inch

Elements
B 5 Micron

Relief
A Relieving

Port Type
Blank NPT
Note: 1/4 & 3/8 inch meet ISO 1179-1 Standard.

Preset / Pressure Limited
Blank None

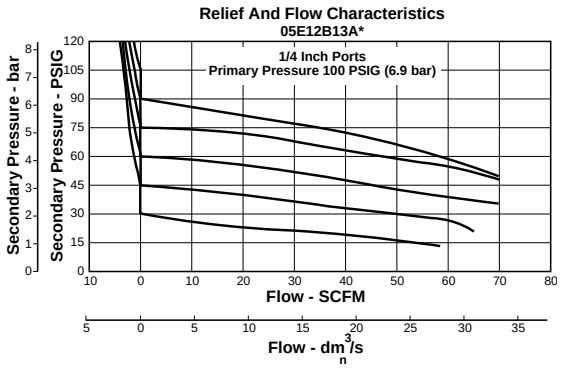
Bowl Options
Polycarbonate Bowl
2 Metal Bowl Guard / Twist Drain
P Metal Bowl Guard / Auto Pulse Drain
Metal Bowl
4 Sight Gauge / Twist Drain
T Sight Gauge / Auto Pulse Drain

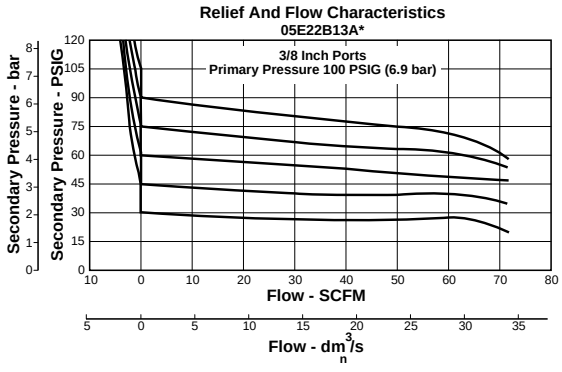
Pressure Range
13 125 PSIG

Engineering Level
*Will be entered at factory

Options
Blank No Options

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.

05E Filter / Regulator Kits & Accessories

Bowl Guard Kit PS905P

Bowl Kits –
Poly Bowl – Automatic Pulse Drain PS995P
Twist Drain..... PS932P
Metal Bowl – Sight Gauge / Automatic Pulse Drain..... PS996P
Sight Gauge / Twist Drain PS935P

Drain Kit –
Automatic Pulse Drain..... PS998P
Twist Drain PS512P

Filter Element Kits – 5 Micron..... PS902P
40 Micron PS901P

Sight Gauge Kit PS914P

Gauges - 2" Dial Face
60 PSIG (0 to 4.1 bar) K4520N14060
160 PSIG (0 to 11.0 bar) K4520N14160

Mounting Bracket Kit (Includes Panel Mount Nut) PS963P

Panel Mount Nut – Metal PS964P

Spring – 2-125 PSIG Range P04425

Relieving Service Kit PS908P

Bonnet Assembly Kit..... PS915P

Specifications

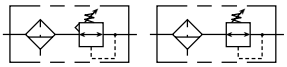
Bowl Capacity .....2.0 Ounces
Gauge Port (2)..... 1/4 Inch
Sump Capacity ..... 0.9 Ounce
Port Threads ..... 1/4, 3/8 Inch
Pressure & Temperature Rating –
Polycarbonate Bowl – 0 to 150 PSIG (0 to 10.3 bar)
32°F to 125°F (0°C to 52°C)
Metal Bowl – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
Automatic Pulse Drain – 10 to 150 PSIG (0.7 to 10.3 bar)
Weight`.....1.35 lb. (0.6 kg)

Materials of Construction

Adjusting Stem .....Steel
Body ..... Zinc
Bonnet, Internal Parts ..... Plastic
Bowl Guard .....Steel
Collar ..... Plastic
Diaphragm .....Nitrile
Drain ..... Plastic
Filter Element – 5 Micron (Standard)..... Plastic

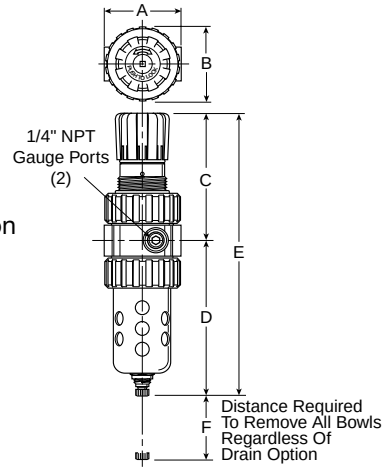
Knob ..... Plastic
Seals .....Nitrile
Sight Gauge .....Polyamide (Nylon)
Springs – Poppet & Control .....Steel

06E Filter / Regulator – Compact



Features

- Space saving package offers both filter and regulator features for optimal performance.
- Excellent water removal efficiency.
- Rolling diaphragm for extended life.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Shown with recommended metal bowl guard.
- High Flow: 1/4" – 46 SCFM§
  3/8" – 55 SCFM§
  1/2" – 61 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
Poly Bowl‡ / Metal Guard		
1/4"	**06E12B13A***	**06E16B13A***
3/8"	**06E22B13A***	**06E26B13A***
1/2"	**06E32B13A***	**06E36B13A***
Metal Bowl / Sight Gauge		
1/4"	**06E14B13A***	**06E18B13A***
3/8"	**06E24B13A***	**06E28B13A***
1/2"	**06E34B13A***	**06E38B13A***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

NOTE: 2.00 Dia. (50.8 mm) hole required for panel mounting. Max. panel thickness 1/4".

06E Filter / Regulator Dimensions			
A	B	C	D
2.81 (71)	2.74 (70)	4.69 (119)	5.69 (145)
D†	E	E†	F
5.74 (146)	10.38 (264)	10.43 (265)	2.25 (57)

Inches (mm)

† With Twist Drain or Auto Pulse Drain

⚠ WARNING

Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

Ordering Information

06E	1	2	B	13	A	*	—	—	---

Port Size
1 1/4 Inch
2 3/8 Inch
3 1/2 Inch

Bowl Options

Polycarbonate Bowl	Metal Bowl
2 Metal Bowl Guard / Twist Drain	4 Sight Gauge / Twist Drain
6 Metal Bowl Guard / Auto Float Drain	8 Sight Gauge / Auto Float Drain

Elements
B 5 Micron

Pressure Range
13 125 PSIG

Relief
A Relieving

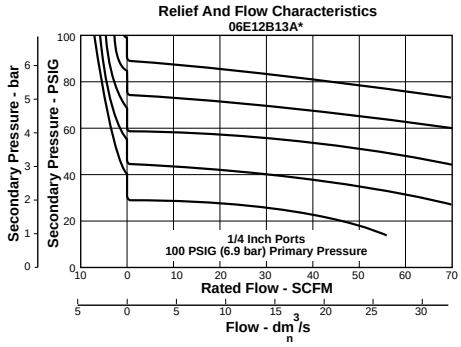
Engineering Level
*Will be entered at factory

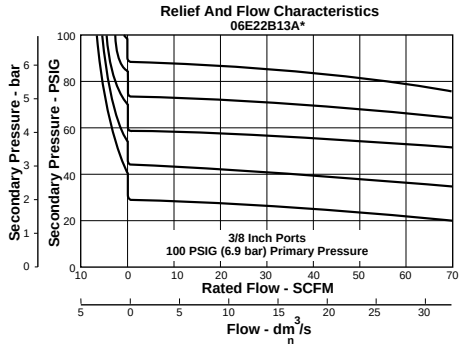
Port Type
Blank NPT
Note: 1/4 & 3/8 inch meet ISO 1179-1 Standard.

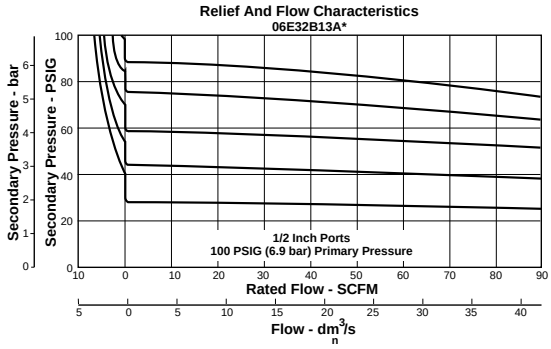
Options
Blank No Options

Preset
Blank None

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.

06E Filter / Regulator Kits & Accessories

Bonnet Assembly Kit PS715P
Bowl Guard Kit PS705P
Bowl Kits –
Poly Bowl – Automatic Float Drain PS722P
Twist Drain PS732P

Metal Bowl – Sight Gauge / Automatic Drain PS723P
Sight Gauge / Twist Drain PS735P
Control Knob P04069B
Drain Kit – Automatic Float Drain PS506P
Twist Drain PS512P

Filter Element Kits – 5 Micron PS702
40 Micron PS701

Gauges – 60 PSIG (0 to 4.1 bar) K4520N14060
160 PSIG (0 to 11.0 bar) K4520N14160

Mounting Bracket Kit (Includes Panel Mount Nut) PS707P
Panel Mount Nut P04082

Service Kits – Non-Relieving (Includes Poppet) PS711P
Relieving (Includes Poppet) PS710P
Seat Insert Kit PS713P
Spring – 2- 125 PSIG Range P04063

Tamperproof Kit (Key Lock) PS737P

Specifications

Bowl Capacity ..... 4.4 Ounces
Gauge Ports (2) ..... 1/4 Inch
(Can be used as Additional Full Flow 1/4" Outlet Ports)
Port Threads ..... 1/4, 3/8, 1/2 Inch

Pressure & Temperature Ratings –
Polycarbonate Bowl – 0 to 150 PSIG (0 to 10.4 bar)
32°F to 125°F (0°C to 52°C)
Metal Bowl – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
Automatic Float Drain – 15 to 250 PSIG (1.0 to 17.2 bar)

Secondary Pressure Range –
Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar)

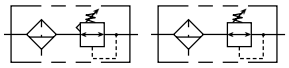
Sump Capacity ..... 1.75 Ounces
Weight ..... 1.6 lb. (0.7 kg)

Materials of Construction

Adjusting Stem ..... Steel
Body ..... Zinc
Bonnet, Internal Parts ..... Plastic
Bowls Available – Transparent ..... Polycarbonate
Metal (With or Without Sight Gauge) ..... Zinc
Bowl Guard ..... Steel
Collar ..... Plastic
Diaphragm ..... Nitrile
Drains – Manual Twist Drain Standard
Body & Nut ..... Plastic
Automatic Float Drain (Optional)
(Interchangeable for Field Conversions)
Operating Range ..... 10 to 250 PSIG (.7 to 17.2 bar)
Housing, Float ..... Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Knob ..... Plastic
Filter Elements – 5 Micron (Optional) ..... Plastic

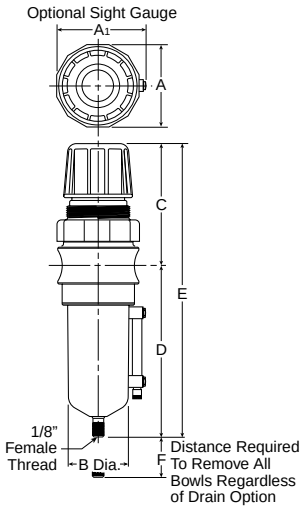
Seals ..... Nitrile
Sight Gauge ..... Polyamide
Springs – Poppet ..... Stainless
Control ..... Steel

FB11 Filter / Regulator – Standard



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§



Port Size	Adjustment Type	NPT	
		Manual Twist Drain	Automatic Float Drain
1/2"	Metal Bowl with Sight Gauge		
	Knob	FB11-04WGCSS	FB11-04WGCRSS

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

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

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

⚠ WARNING

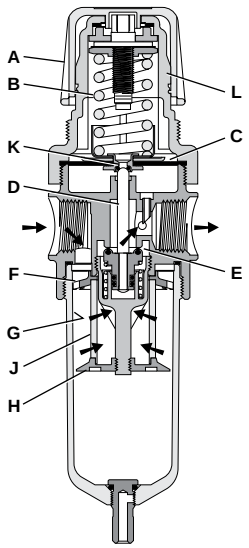
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

Ordering Information

FB11	-	04	W	G	C	—	SS

Series	Port Type	Port Size	Bowl	Element	Reduced Pressure Range	Options	Material
FB11 Standard Knob	- NPT	04 1/2 Inch	D Metal Bowl without Sight Gauge W Metal Bowl with Sight Gauge	G 5 Micron	C 0-125 PSIG (0-8.5 bar)	Blank Manual Twist Drain R Automatic Float Drain	SS Stainless Steel

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:

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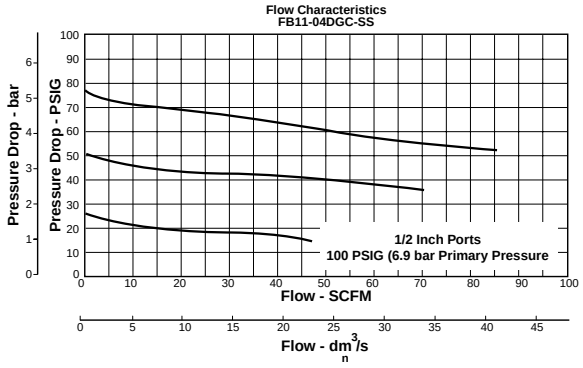
For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



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 R10X51SS
- Plastic R10X51-P

Service Kit –
- Relieving RKR10YSS

Spring –
- 0-125 PSIG Range SPR-389-1-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) 0°F to 150°F (-18°C to 66°C)
- Metal Bowl (W) ..... 0 to 250 PSIG (0 to 17.2 bar) 0°F to 150°F (-18°C to 66°C)
- Automatic Float Drain ..... 15 to 175 PSIG (1 to 12 bar) 40°F to 125°F (4°C to 52°C)

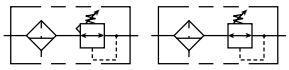
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

Sump Capacity ..... 1.7 Ounce
Weight ..... 2.42 lb. (1.09 kg)

Materials of Construction

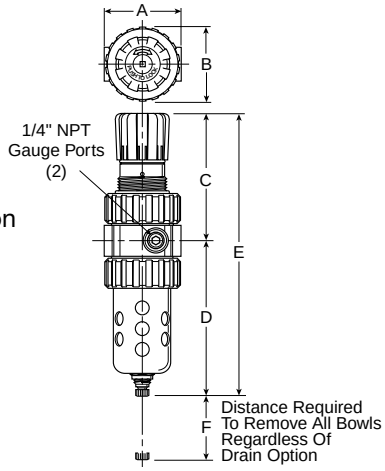
Adjustment Mechanism / Springs ..... 316 Stainless Steel
Body ..... 316 Stainless Steel
Bonnet / Knob ..... Acetal
Bottom Plug ..... 316 Stainless Steel
Poppet ..... 316 Stainless Steel
Seals ..... Fluorocarbon
Sight Gauge ..... Isoplast

07E Filter / Regulator – Standard



Features

- Space saving package offers both filter and regulator features for optimal performance.
- Excellent water removal efficiency.
- Rolling diaphragm for extended life.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Shown with recommended metal bowl guard.
- High Flow: 3/8" – 70 SCFM§
  1/2" – 90 SCFM§
  3/4" – 90 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
Poly Bowl‡ / Metal Guard		
3/8"	**07E22B13A***	**07E26B13A***
1/2"	**07E32B13A***	**07E36B13A***
3/4"	**07E42B13A***	**07E46B13A***
Metal Bowl / Sight Gauge		
3/8"	**07E24B13A***	**07E28B13A***
1/2"	**07E34B13A***	**07E38B13A***
3/4"	**07E44B13A***	**07E48B13A***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

NOTE: 2.00 Dia. (50.8 mm) hole required for panel mounting. Max. panel thickness 1/4".

07E Filter / Regulator Dimensions			
A	B	C	D
3.24 (82)	3.25 (83)	4.79 (122)	6.97 (177)
D†	E	E†	F
7.00 (178)	11.76 (299)	11.79 (299)	2.75 (70)

Inches (mm)
† With Auto Float Drain

⚠ WARNING

Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

Ordering Information

07E	3	2	B	13	A	*	—	—	---

Port Size
2 3/8 Inch
3 1/2 Inch
4 3/4 Inch

Elements
B 5 Micron

Relief
A Relieving

Port Type
Blank NPT
Note: 3/8, 1/2 & 3/4 inch meet ISO 1179-1 Standard.

Preset
Blank None

Bowl Options

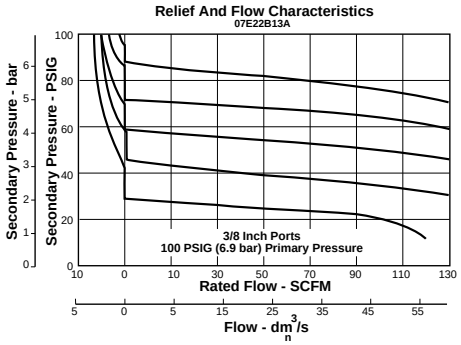
Polycarbonate Bowl	Metal Bowl
2 Metal Bowl Guard / Twist Drain	4 Sight Gauge / Twist Drain
6 Metal Bowl Guard / Auto Float Drain	8 Sight Gauge / Auto Float Drain

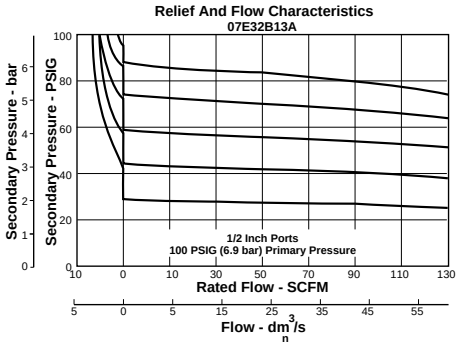
Pressure Range
Without Gauge
13 125 PSIG

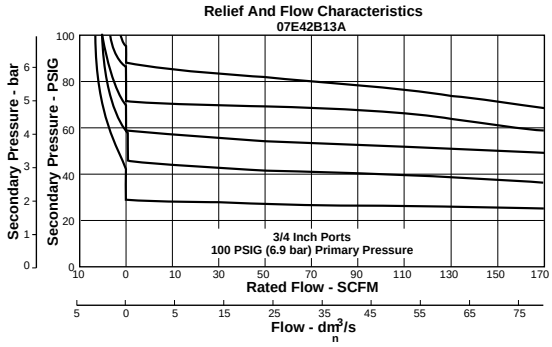
Engineering Level
*Will be entered at factory

Options
Blank No Options

Technical Information







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

07E Filter / Regulator Kits & Accessories

Bonnet Assembly Kit PS715P
Bowl Guard Kit PS805P
Bowl Kits –
Poly Bowl – Automatic Float Drain PS822P
Twist Drain PS832P
Metal Bowl – Sight Gauge / Automatic Drain PS823P
Sight Gauge / Twist Drain PS835P
Control Knob P04069B
Drain Kits – Automatic Float Drain PS506P
Twist Drain PS512P

Filter Element Kit – 5 Micron PS802
40 Micron PS401

Gauges – 60 PSIG (0 to 4.1 bar) K4520N14060
160 PSIG (0 to 11.0 bar) K4520N14160

Mounting Bracket Kit (Includes Panel Mount Nut) PS807P
Panel Mount Nut P04082

Service Kits – Relieving (Includes Poppet) PS810P
Seat Insert Kit PS813P
Springs – 2- 125 PSIG Range P04063

Tamperproof Kit (Key Lock) PS737P

Specifications

Bowl Capacity ..... 7.2 Ounces
Gauge Ports (2) ..... 1/4 Inch
(Can be used as Additional Full Flow 1/4" Outlet Ports)
Port Threads ..... 3/8, 1/2, 3/4 Inch

Pressure & Temperature Ratings –
Polycarbonate Bowl – 0 to 150 PSIG (0 to 10.4 bar)
32°F to 125°F (0°C to 52°C)
Metal Bowl – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
Automatic Float Drain – 15 to 250 PSIG (1.0 to 17.2 bar)

Secondary Pressure Range –
Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar)

Sump Capacity ..... 2.8 Ounces
Weight ..... 2.5 lb. (1.1 kg)

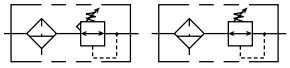
Materials of Construction

Adjusting Stem ..... Steel
Body ..... Zinc
Bonnet, Internal Parts ..... Plastic
Bowls Available – ..... Transparent Polycarbonate
Metal (With or Without Sight Gauge) ..... Zinc
Bowl Guard ..... Steel
Collar ..... Plastic or Metal
Diaphragm ..... Nitrile
Drains – Manual Twist Drain Standard
Body & Nut ..... Plastic

Automatic Float Drain Optional
(Interchangeable for Field Conversions)
Operating Range ..... 10 to 250 PSIG (.7 to 17.2 bar)
Housing, Float ..... Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Knob ..... Plastic
Filter Element – 5 Micron (Standard) ..... Plastic

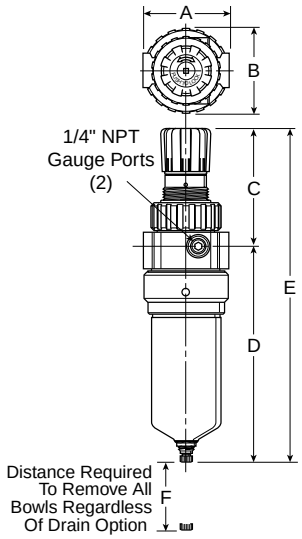
Seals ..... Nitrile
Sight Gauge ..... Polyamide
Springs – Poppet ..... Stainless
Control ..... Steel

F12E Filter / Regulator – Coalescing



Features

- Space saving package offers both coalescer and regulator features for optimal performance.
- Removes liquid, aerosol and sub-micron particles.
- Rolling diaphragm for extended life.
- Removable non-rising knob for panel mounting and tamper resistance.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Rated Flows: Standard - 36 SCFM§
  High Flow - 55 SCFM§



	Standard with Coalescer	Standard w/Coalescer and Built-in prefilter
Twist Drain		
3/8" NPT	F12E23C13A*	F12E23Q13A*
1/2" NPT	F12E33C13A*	F12E23Q13A*
3/4" NPT	F12E43C13A*	F12E23Q13A*
Automatic Float Drain		
3/8" NPT	F12E27C13A*	F12E23Q13A*
1/2" NPT	F12E37C13A*	F12E23Q13A*
3/4" NPT	F12E47C13A*	F12E23Q13A*

	High Flow with Coalescer	High Flow w/ Coalescer and Built-in prefilter
Twist Drain		
3/8" NPT	F12E28C13A*	F12E28Q13A*
1/2" NPT	F12E38C13A*	F12E28Q13A*
3/4" NPT	F12E48C13A*	F12E28Q13A*
Automatic Float Drain		
3/8" NPT	F12E29C13A*	F12E29Q13A*
1/2" NPT	F12E39C13A*	F12E29Q13A*
3/4" NPT	F12E49C13A*	F12E29Q13A*

F12E Filter / Regulator Dimensions

A	B	C	D
3.24 (82)	3.25 (83)	4.79 (122)	8.20 (208)
D†	**E**	**E†**	**F**
8.17 (208)	12.99 (330)	12.96 (329)	3.29 (84)

Inches (mm)
† With Twist Drain or Auto Float Drain

§ SCFM = Standard cubic feet per minute at 150 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.
NOTE: 2.00 Dia. (50.8 mm) hole required for panel mounting.

⚠ WARNING
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

Ordering Information

F12E	3	3	C	13	A	*	–	–

Port Size
2 3/8 Inch
3 1/2 Inch
4 1/4 Inch

Bowl Options
Metal Bowl
3 Twist Drain
7 Automatic Float Drain
8 High Flow Twist Drain
9 High Flow Float Drain

Elements
C Grade 6
Q Grade 10

Note: Q media is a coalescing element with the same configuration as Type C, but with a pleated cellulose prefilter built-in.

Port Size
Without Gauge
13 125 PSIG

Relief
A Relieving

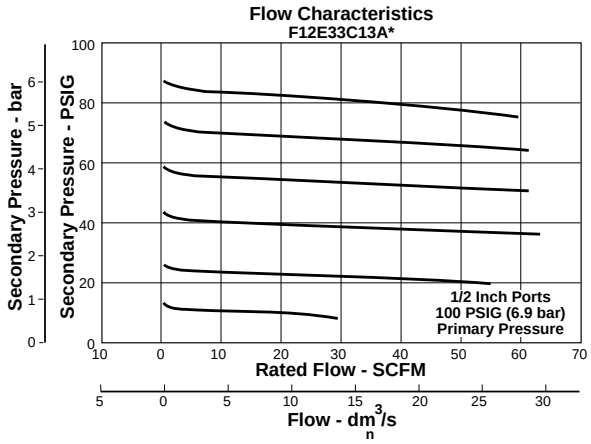
Engineering Level
*Will be entered at factory

Port Type
Blank NPT

Note: 3/8 & 1/2 inch meet ISO 1179-1 Standard.

Options
Blank No Options

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.

F12E Filter / Regulator Kits & Accessories

Bonnet Assembly Kit PS715P

Bowl Kits –
Metal Bowl – Automatic Float Drain PS826P
Twist Drain PS834P

Control Knob P04069B

Drain Kits – Automatic Float Drain PS506P
Twist Drain PS512P

Filter Element –

Standard w/coalescer: 6CU13-027 x 4
Standard w/coalescer & Built-in prefilter: 6QU13-027 x 4
High Flow w/coalescer: 6CU13-042 x 4
High Flow w/coalescer & Built-in prefilter: 6QU13-042 x 4

Gauges – 60 PSIG (0 to 4.1 bar) K4520N14060
160 PSIG (0 to 11.0 bar) K4520N14160

Mounting Bracket Kit (Includes Panel Mount Nut) PS807P

Service Kit – Relieving (Includes Poppet) PS886P
Spring – 2- 125 PSIG Range P04063

Tamperproof Kit (Key Lock) PS737P

Specifications

Bowl Capacity ..... 7.2 Ounces
Gauge Ports (2) ..... 1/4 Inch
(Can be used as Additional Full Flow 1/4" Outlet Ports)
Port Threads ..... 3/8, 1/2, 3/4 Inch

Pressure & Temperature Ratings –
Metal Bowl – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
Secondary Pressure Range –
Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar)

Sump Capacity ..... 2.8 Ounces
Weight ..... 2.5 lb. (1.1 kg)

Materials of Construction

Adjusting Stem ..... Steel
Body ..... Zinc
Bonnet, Internal Parts ..... Plastic
Bowls Available – Metal (Without Sight Gauge) ..... Zinc
Collar For Bonnet ..... Metal
Control Spring ..... Steel
Diaphragm ..... Nitrile
Drains – Manual Twist Drain Standard
Body & Nut ..... Plastic

Automatic Float Drain Optional
(Interchangeable for Field Conversions)
Operating Range ..... 10 to 250 PSIG (.7 to 17.2 bar)
Housing, Float ..... Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Knob ..... Plastic

Filter Element ..... Borosilicate & microglass fibers
Filter Element (optional) ..... Pleated cellulose prefilter layer

Seals ..... Nitrile
Sight Gauge ..... Polyamide
Springs – Poppet ..... Stainless