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.

We are dedicated to fulfilling your compressed air filtration requirements. We know that every application requires specific needs and we have the products ready to address them.

If you can't find a specific compressed air/gas filter, dryer, or accessory in this catalog, call 1-800-521-4357. Our knowledgeable technical assistance department will be happy to assist you!

Inquires via e-mail are also encouraged. E-mail inquiries to finitefilter@parker.com. We can provide solutions that will remove contaminants such as oil, water and particulate from your compressed air and gas lines, saving you time and money!

⚠ CAUTION:

Polycarbonate bowls and sight domes, being transparent and tough, are ideal for use with Filters and Lubricators. They are suitable for use in normal industrial environments, but should not be located in areas where they could be subjected to direct sunlight, an impact blow, nor temperatures outside of the rated range. As with most plastics, some chemicals can cause damage. Polycarbonate bowls and sight domes should not be exposed to chlorinated hydro-carbons, ketones, esters and certain alcohols. They should not be used in air systems where compressors are lubricated with fire-resistant fluids such as phosphate ester and di-ester types.

Metal bowls are recommended where ambient and/or media conditions are not compatible with polycarbonate bowls. Metal bowls resist the action of most such solvents, but should not be used where strong acids or bases are present or in salt laden atmospheres. Consult the factory for specific recommendations where these conditions exist.

TO CLEAN POLYCARBONATE COMPONENTS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Metal bowl guards are recommended for all applications.

⚠ 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.

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Product Selection Chart

Basic Unit	Series	Port Size (inches)							Bowls			Capacity	Elements (Micron)	Page
		1/8	1/4	3/8	1/2	3/4	1	1½	Poly	Metal	Metal SG*		5	
FILTERS	14F	X	X						X	X	N/A	1 oz.	Standard	10
	FF504		X						316 Stainless Steel			1 oz.	Standard	12
	05F		X	X					X	N/A	X	2 oz.	Standard	14
	06F		X	X	X				X	N/A	X	4.4 oz.	Standard	16
	FF10				X				316 Stainless Steel			4 oz.	Standard	18
	07F			X	X	X			X	N/A	X	7.2 oz.	Standard	20
	P3NF					X	X	X	N/A	N/A	X	18 oz.	Standard	22
COALESCERS	Q*S, H*S	X	X						X	X	N/A	1 oz.	Grade 6 Std., Grade 10 Opt.	26
	FF501		X						316 Stainless Steel			1 oz.	Grade 6	28
	15F		X	X					X	N/A	X	2 oz.	Grade 6 Std., Grade 10 Opt.	30
	11F		X	X	X				X	N/A	X	4.4 oz.	Grade 6 Std., Grade 10 Opt.	32
	FF11				X				316 Stainless Steel			4 oz.	Grade 6	34
	12F			X	X	X			X	N/A	X	7.2 oz.	Grade 6 Std., Grade 10 Opt.	36

Basic Unit		Series	Port Size (inches)							Spring	Page
			1/8	1/4	3/8	1/2	3/4	1	1½	125	
REGULATORS	STANDARD	14R	X	X						Standard	40
		FR364		X						Standard	42
		05R		X	X					Standard	44
		06R		X	X	X				Standard	46
		FR10				X				Standard	48
		07R			X	X	X			Standard	50
		P3NR					X	X	X	Standard	52
	PILOT	11R		X	X	X				-	54
		12R			X	X	X			-	56

* sight gauge

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Product Selection Chart

Basic Unit		Series	Port Size (inches)							Bowls			Capacity	Elements (Micron)	Spring Range	Page
			1/8	1/4	3/8	1/2	3/4	1	1½	Poly	Metal	Metal SG*		5	125	
FILTER/REGULATORS		14E	X	X						X	X	N/A	1 oz.	Standard	Standard	60
		F10E	X	X						X	X	N/A	1 oz.	Grade 6 Standard; Grade 10 Optional	Standard	62
		FB548		X						316 Stainless Steel			1 oz.	Grade 6 Standard; Grade 10 Optional	Standard	64
		05E		X	X					X	X	X	2 oz.	Standard	Standard	66
		06E		X	X	X				X	X	X	4.4 oz.	Standard	Standard	68
		FB11				X				316 Stainless Steel			4 oz.	Standard	Standard	70
		07E			X	X	X			X	X	X	7.2 oz.	Standard	Standard	72
		F12E			X	X	X			N/A	X	N/A	7.2 oz.	Grade 6 Standard; Grade 10 Optional	Standard	74
LUBRICATORS	MICRO MIST	15L		X	X					X	N/A	X	2 oz.	Cannot be filled under pressure		78
		16L		X	X	X				X	N/A	X	2.6 oz.	Cannot be filled under pressure		80
		17L			X	X	X			X	N/A	X	4.9 oz.	Cannot be filled under pressure		82
	MIST	04L	X	X						X	X	N/A	1 oz.	Cannot be filled under pressure		86
		FL10				X				316 Stainless Steel			4 oz.			88
		P3NL					X	X	X	N/A	N/A	X	18 oz.	Can be filled under perssure		90
COMBOS	NIPPLED	14G		X						X	X	N/A	1 oz.	Two-Unit	Standard	92
		14A		X						X	X	N/A	1 oz.	Three-Unit	Standard	
		15G		X	X					X	N/A	X	2 oz.	Two-Unit	Standard	94
		15A		X	X					X	N/A	X	2 oz.	Three-Unit	Standard	
		16G		X	X	X				X	N/A	X	2 oz.	Two-Unit	Standard	100
		16A		X	X	X				X	N/A	X	2 oz.	Three-Unit	Standard	
		17G			X	X	X			X	N/A	X	2 oz.	Two-Unit	Standard	
		17A			X	X	X			X	N/A	X	2 oz.	Three-Unit	Standard	
		P3N3B					X	X	X	N/A	N/A	X	18 oz.	Three-Unit	Standard	106
	MODULAR	15H		X	X					X	N/A	X	2 oz.	Two-Unit	Standard	96
		15B		X	X					X	N/A	X	2 oz.	Three-Unit	Standard	
		16H		X	X	X				X	N/A	X	2 oz.	Two-Unit	Standard	102
		16B		X	X	X				X	N/A	X	2 oz.	Three-Unit	Standard	
		17H			X	X	X			X	N/A	X	2 oz.	Two-Unit	Standard	
		17B			X	X	X			X	N/A	X	2 oz.	Three-Unit	Standard	
		P3NCB					X	X	X	N/A	N/A	X	18 oz.	Three-Unit	Standard	108

* sight gauge

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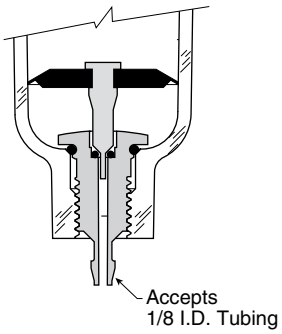
Drains

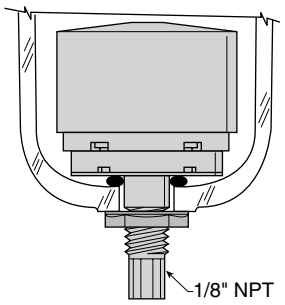
Automatic Pulse Drain



(Spitter Drain)

The diaphragm in this drain pulses when there is a pressure differential such as a valve cycling or cylinder stroking downstream. This action flexes the diaphragm and allows the filter to drain the entrapped water.

Automatic Float Drain



The float internal to this drain rises with increased liquid level. When the float rises, it opens a seat area allowing the trapped liquids to drain through the bottom.
A manual override can be pushed in the bottom of the drain to unseat the float if particulates create a block.

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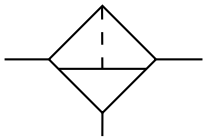
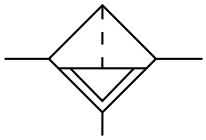
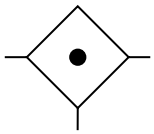
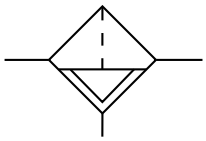
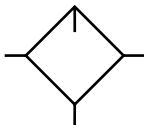
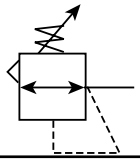
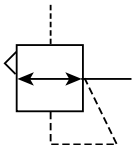
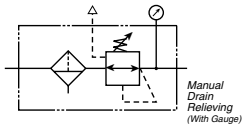
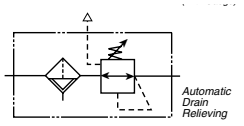
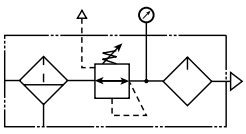
Air Preparation Units Symbol Chart

Symbol	Description
	FILTER/SEPARATOR with manual drain
	FILTER/SEPARATOR with automatic drain
	OIL REMOVAL FILTER (coalescing filter)
	AUTOMATIC DRAIN
	LUBRICATOR with manual drain
	AIR LINE PRESSURE REGULATOR adjustable, relieving
	AIR LINE PRESSURE REGULATOR pilot controlled, relieving
	FILTER/REGULATOR (piggyback) Manual Drain Relieving (With Gauge)
	FILTER/REGULATOR (piggyback) Auto Drain Relieving
	AIR LINE COMBO F-R-L simplified

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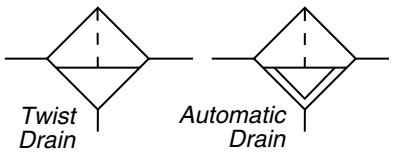
Filters



- Pipe Sizes 1/8 thru 1½ Inch
- Flows to 310 SCFM
- Pressures to 250 PSIG

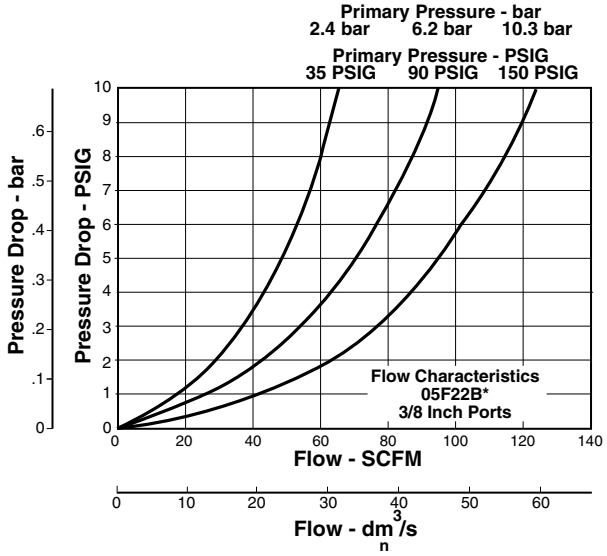
Air filters are designed to remove airborne solid contaminants, pipe scale, rust, pipe dope, etc., which may plug small orifices or cause excessive wear and premature failure of pneumatic components.

- Miniature 14F Series, 1/8 and 1/4 Inch
- Miniature FF504 Stainless Series, 1/4 Inch
- Economy 05F Series, 1/4 and 3/8 Inch
- Compact 06F Series, 1/4, 3/8 and 1/2 Inch
- Standard FF10 Stainless Series, 1/2 Inch
- Standard 07F Series, 3/8, 1/2 and 3/4 Inch
- Hi-Flow P3NF Series, 3/4, 1 and 1-1/2 Inch

Filter 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 pipe size by choosing curve that offers minimum pressure drop at desired flow in SCFM. For optimum performance, a 2 to 5 PSIG pressure drop should be selected.

Reading Flow Charts to Size Filters



Once the required flow is determined for a pneumatic application, the filter can be selected by using the flow chart. To read the filter flow chart, first determine the inlet pressure that will be used. Find the appropriate pressure curve on the graph. Each graph will contain three pressure curves. If the required inlet pressure is not on the graph, interpolate a similar curve for the required pressure. Next, determine the acceptable pressure drop across the filter and locate it on the vertical axis. Find the intersection point of the acceptable pressure drop and the inlet pressure curve. At this point follow a vertical path downward to view the flow in SCFM. If the flow is too low, select a larger port size or body size to give the required flow. If the flow is higher than necessary, select a smaller port size or body size to give the required flow.

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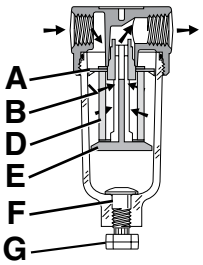
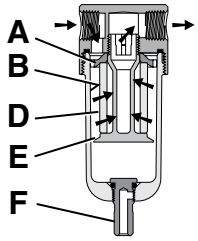
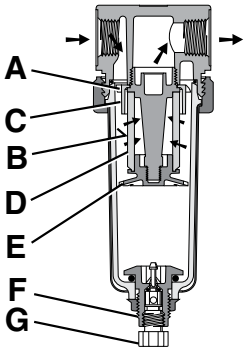


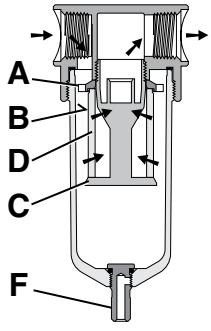
14F



F504



05F



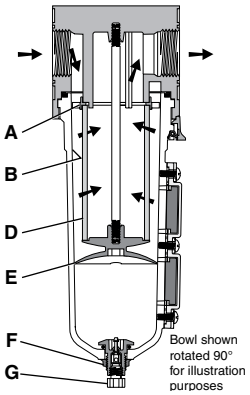
F10

First Stage Filtration:

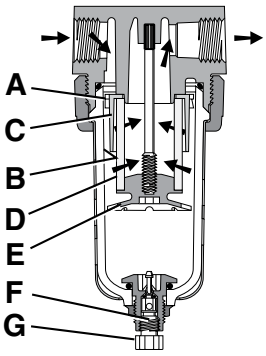
Air enters at inlet port and flows through deflector plate **(A)** which causes a swirling action. Liquids and coarse particles are forced to the bowl interior wall **(B)** by the centrifugal action of the swirling air. They then carry down the bowl wall by the force of gravity. Shroud **(C)** assures that the proper swirling action occurs and that the air does not pass directly through the filter element (D) until the large particles and liquids are removed. The baffle (E) separates the lower portion of the bowl into a "quiet zone" where the removed liquids and particles collect, unaffected by the swirling air, and are therefore not reentrained into the flowing air.

Second Stage Filtration:

After liquids and large particles are removed in the first stage of filtration, the air flows through element **(D)** where smaller particles are filtered out and retained. The filtered air then passes downstream. Collected liquids and particles in the "quiet zone" should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by the twist drain **(F)** which is actuated by twisting knob **(G)** counterclockwise.



P3NF



06F / 07F

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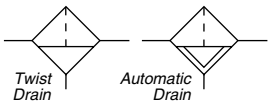
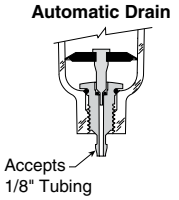
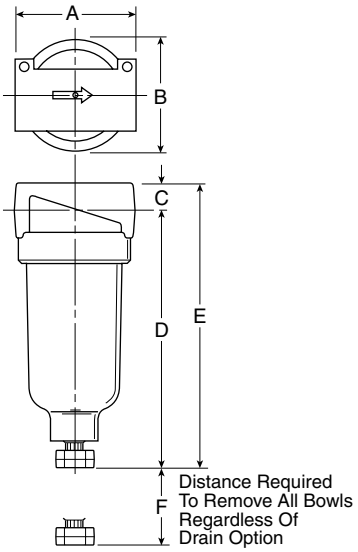
14F Filters – Miniature



Features

- Excellent water removal efficiency.
- Unique deflector plate that creates swirling of the air stream ensuring maximum water and dirt separation.
- Easily disassembled for servicing without the use of tools.
- 5 micron element standard.
- Interchangable Twist and Automatic Pulse Drains.
- High Flow: 1/8" – 22 SCFM§
  1/4" – 24 SCFM§





Port Size	NPT	
	Twist Drain	Automatic Pulse Drain
Poly Bowl ‡		
1/8"	**14F01B***	**14F05B***
1/4"	**14F11B***	**14F15B***
Metal Bowl without Sight Gauge		
1/8"	**14F03B***	**14F07B***
1/4"	**14F13B***	**14F17B***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

14F Filter Dimensions		
A 1.69 (43)	**B** 1.53 (39)	**C** .39 (10)
D 3.82 (97)	**D†** 3.87 (99)	**E** 4.21 (107)
E† 4.26 (108)	**F** 1.60 (41)	

Inches (mm)

† With Automatic Pulse Drain.

Ordering Information

14F	1	1	B	*	–

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

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

Elements
B 5 Micron

Engineering Level
* Will be Entered at Factory

Port Type
Blank NPT

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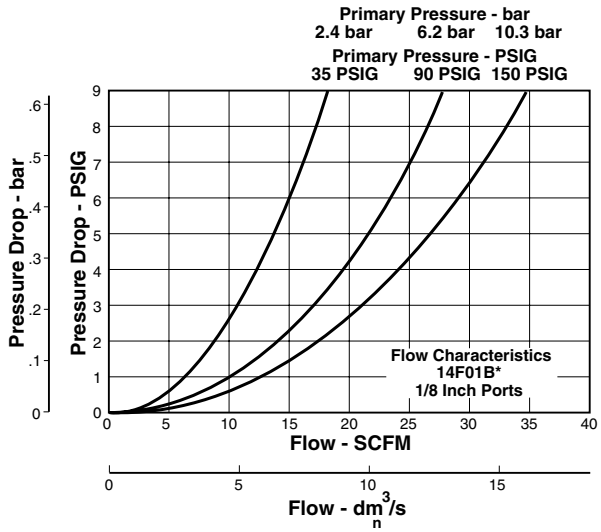
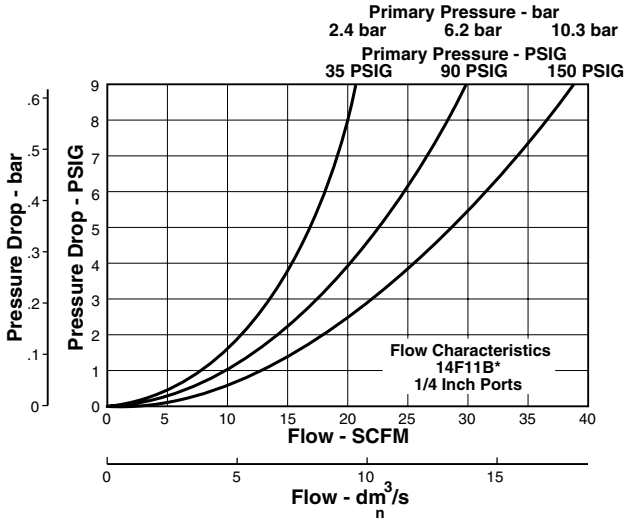
Technical Information





14F Filter Kits & Accessories

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

Filter Element Kits –
40 Micron Element PS401
5 Micron Element PS403
5 Micron Element Kit (element and retainer) PS407P

Mounting Bracket PS417BP

Specifications

Automatic Pulse Drain Tube Barb ..... 1/8 Inch

Bowl Capacity ..... 1 Ounce

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)
Automatic Pulse Drain ..... 10 to 250 PSIG (0.7 to 17.2 bar)
at 125°F (52°C) or less

Weight ..... 0.41 lb. (0.18 kg)

Materials of Construction

Body ..... Zinc

Bowls ..... Transparent Polycarbonate
Metal (Zinc) Bowl w/o Sight Gauge

Deflector, Element Holder & Baffle ..... Plastic

Drains –
Twist Drain –
Body & Stem ..... Plastic
Seals ..... Nitrile
Automatic Pulse Drain –
Piston & Seals ..... Nitrile
Stem, Seat, Adaptor & Washers ..... Aluminum

Filter Elements –
5 Micron (Standard) ..... Plastic
Seals ..... Nitrile

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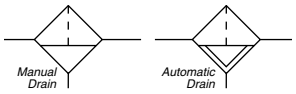
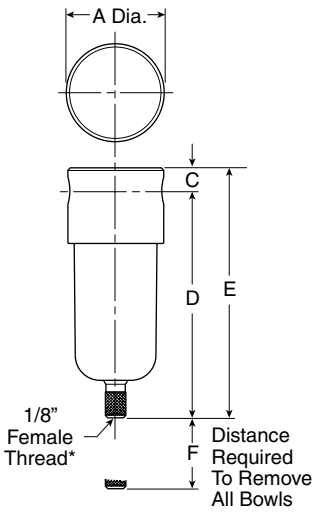
FF504 Filter – Miniature



Features

- Stainless steel construction handles most corrosive environments.
- Fluorocarbon seals standard.
- Meets NACE specifications MR-01-75/ISO 15156.
- 1/8" female threaded drain.
- High Flow: 1/4" - 23 SCFM §



Port Size	NPT
	Manual Twist Drain
1/4"	FF504-02DGSS

SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

FF504 Filter Dimensions		
A 1.56 (40)	C 0.31 (8)	D 3.69 (94)
E 4.00 (102)	F 1.58 (40)	

inches
(mm)

Ordering Information

FF504	-	02	D	G	SS

Port Type	Port Size	Bowl	Element	Material
- NPT	02 1/4 Inch	D Metal Bowl without Sight Gauge	G 5 Micron	SS Stainless Steel

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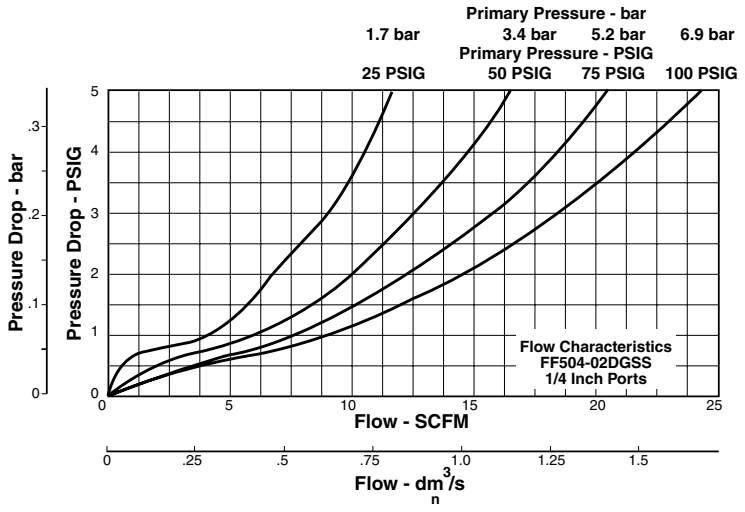
Technical Information



FF504 Filter Kits & Accessories

Filter Element Kit –
Particulate (5 Micron) Element EK504VY

Manual Twist Drain –
Small (Old) SA600Y7-1SS
Large (New) SAP05481

Pipe Nipple –
1/4" 316 Stainless Steel 616Y28-SS

Specifications

Bowl Capacity ..... 1.0 Ounces
Filter Rating ..... 5 Micron
Sump Capacity ..... 0.4 Ounce
Port Threads ..... 1/4 Inch

Pressure & Temperature Ratings –
Manual Twist Drain ..... 0 to 300 PSIG (0 to 20.7 bar)
0°F to 180°F (18°C to 82°C)
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C).

Weight ..... 0.6 lb. (0.27 kg)

Materials of Construction

Body ..... 316 Stainless Steel
Bowls ..... 316 Stainless Steel
Deflector ..... Acetal
Drain ..... 316 Stainless Steel
Element Holder ..... Acetal
Filter Element ..... Polyethylene
Seals ..... Fluorocarbon

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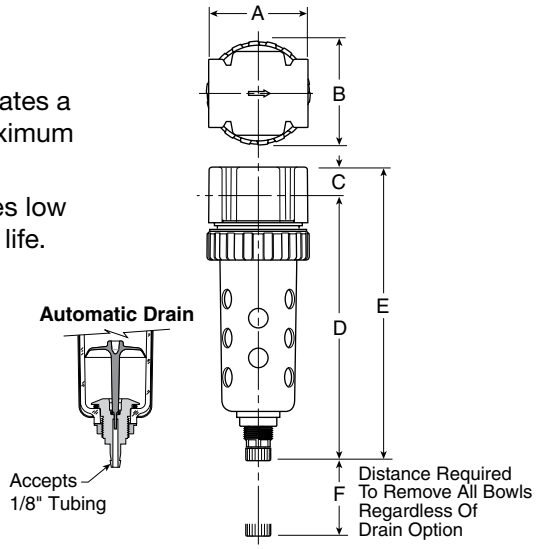
05F Filters – Economy

Features

- Excellent water removal efficiency.
- Unique deflector plate and shroud creates a swirling of the air stream ensuring maximum water and dirt separation.
- Large filter element surface guarantees low pressure drop and increased element life.
- 5 micron filter element standard.
- Shown with metal bowl guard.
- High Flow: 1/4" – 54 SCFM§
  3/8" – 70 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Pulse Drain
Poly Bowl‡ / Metal Guard		
1/4"	**05F12B***	**05F1PB***
3/8"	**05F22B***	**05F2PB***
Metal Bowl / Sight Gauge		
1/4"	**05F14B***	**05F1TB***
3/8"	**05F24B***	**05F2TB***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

05F Filter Dimensions		
A	**B**	**C**
2.00 (51)	2.06 (52)	.56 (14)
D†	**E†**	**F**
5.35 (136)	5.91 (150)	2.25 (57)

Inches (mm)

† With Twist or Automatic Pulse Drain

Ordering Information

05F	1	2	B	*	–	–

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

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

Elements
- B 5 Micron

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

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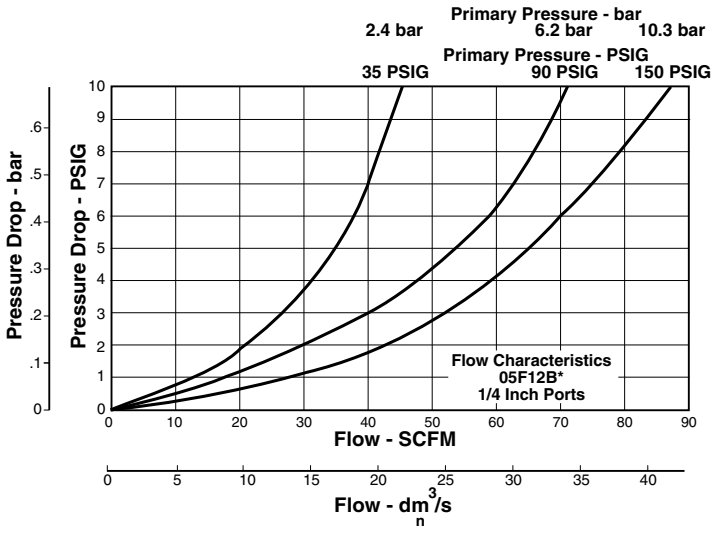
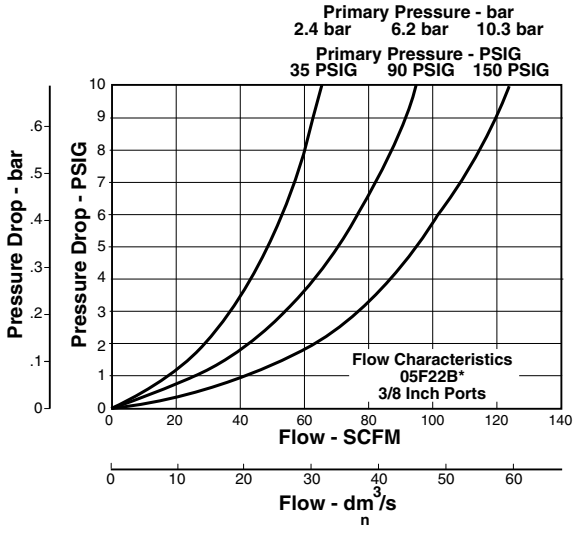
Technical Information





05F Filter 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 Element PS902P
- 40 Micron Element PS901P

Mounting Bracket Kit PS943P

Sight Gauge Kit PS914P

Specifications

Bowl Capacity ..... 2.0 Ounces

Sump Capacity ..... 0.9 Ounce

Port Threads ..... 1/4, 3/8 Inch

Pressure & Temperature Ratings –

Without Differential Pressure Indicator:

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)

With Differential Pressure Indicator: 0 to 150 PSIG (0 to 10.3 bar)
32°F to 125°F (0°C to 52°C)
Automatic Pulse Drain – 10 to 150 PSIG (0.7 to 10.3 bar)

Weight ..... 1.2 lb. (0.54 kg)

Materials of Construction

Body ..... Zinc

Bowls ..... Transparent Polycarbonate or Metal (Zinc) With or Without Sight Gauge

Bowl Guards ..... Steel

Collar ..... Plastic

Deflector, Shroud & Baffle ..... Plastic

Drain ..... Plastic

Filter Elements –
- 5 Micron ..... Plastic

Seals ..... Nitrile

Sight Gauge, DPI ..... Polyamide (Nylon)

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Finite Filter Operation
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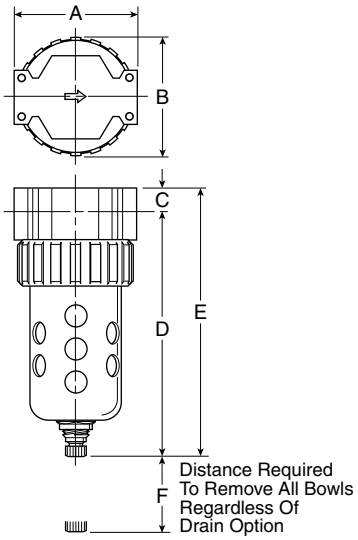
06F Filters – Compact

Features

- Excellent water removal efficiency.
- Unique deflector plate and shroud creates a swirling of the air stream ensuring maximum water and dirt separation.
- Large filter element surface guarantees low pressure drop and increased element life.
- Optional automatic float drain available.
- Shown with metal bowl guard.
- High Flow: 1/4" – 53 SCFM§
  3/8" – 80 SCFM§
  1/2" – 85 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
Poly Bowl‡ / Metal Guard		
1/4"	**06F12B***	**06F16B***
3/8"	**06F22B***	**06F26B***
1/2"	**06F32B***	**06F36B***
Metal Bowl / Sight Gauge		
1/4"	**06F14B***	**06F18B***
3/8"	**06F24B***	**06F28B***
1/2"	**06F34B***	**06F38B***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

06F Filter Dimensions		
A 2.81 (71)	**B** 2.74 (70)	**C** .53 (13)
D 5.69 (145)	**D†** 5.74 (146)	**E** 6.22 (158)
E† 6.27 (159)	**F** 2.25 (57)	

Inches (mm)

† With Automatic Float Drain

Ordering Information

06F	1	2	B	*	–	–

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

Engineering Level
- * Will be Entered at Factory

Options
- Blank None

Port Type
- Blank NPT

Note: 1/4 & 3/8 inch meet ISO 1179-1 Standard.

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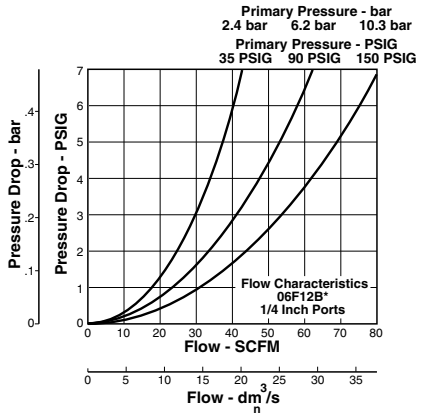
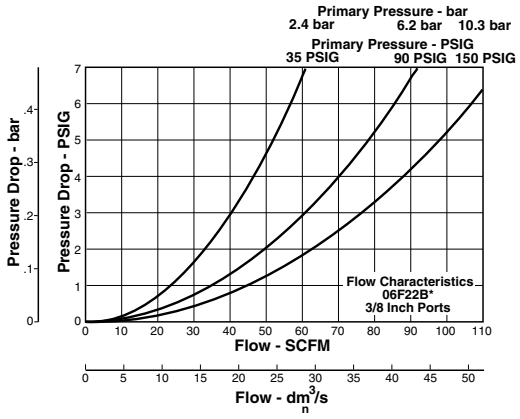
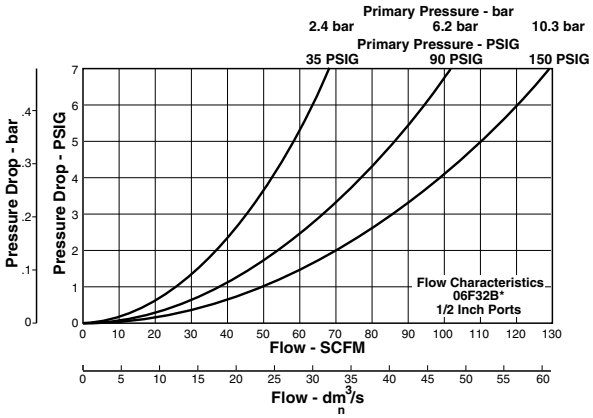
Technical Information







06F Filter Kits & Accessories

Bowl Guard Kit PS705P

Bowl Kits –
- Poly Bowl –
  - Automatic Float Drain PS722P
  - Twist Drain PS732P
- Metal Bowl –
  - Sight Gauge / Automatic Float Drain PS723P
  - Sight Gauge / Twist Drain..... PS735P

Drain Kits –
- Automatic Float Drain..... PS506P
- Twist Drain PS512P

Filter Element Kits –
- 5 Micron Element.....PS702
- 40 Micron Element.....PS701

Mounting Bracket Kit PS743P

Sight Gauge Kit PS914P

Specifications

Bowl Capacity .....4.4 Ounces

Sump Capacity ..... 1.75 Ounces

Port Threads ..... 1/4, 3/8, 1/2 Inch

Pressure & Temperature Ratings –

Without Differential Pressure Indicator:

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)

With Differential Pressure Indicator: 0 to 150 PSIG (0 to 10.3 bar)
32°F to 125°F (0°C to 52°C)

Automatic Float Drain – 15 to 250 PSIG (1.0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)

Weight..... 1.4 lb. (0.6 kg)

Materials of Construction

Body ..... Zinc

Bowls .....Transparent Polycarbonate or Metal (Zinc) With or Without Sight Gauge

Bowl Guards ..... Steel

Collar ..... Plastic

Deflector, Shroud & Baffle ..... Plastic

Drains –
- Twist Drain – Body & Nut..... Plastic
- Automatic Float Drain – Housing, Float ..... Plastic
  - Seals .....Nitrile
  - Springs, Push Rod..... Stainless Steel

Filter Elements –
- 5 Micron ..... Plastic

Seals.....Nitrile

Sight Gauge ..... Polyamide

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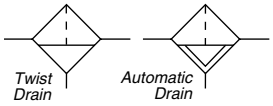
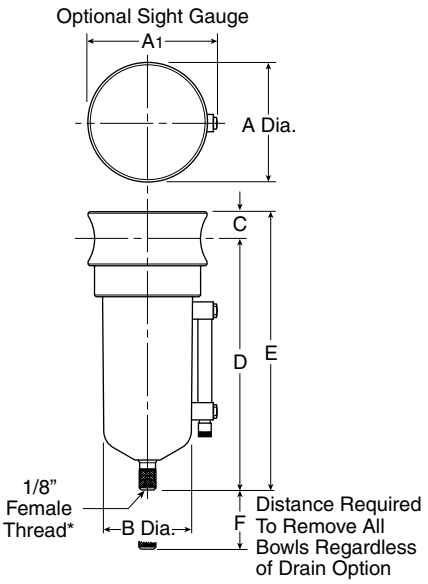
FF10 Filter – Standard



Features

- Stainless steel construction handles most corrosive environments.
- Meets NACE specifications MR-01-75/ISO 15156.
- 1/8" female threaded drain.
- High Flow: 1/2" - 70 SCFM §



Port Size	NPT without sight gauge		NPT with sight gauge	
	Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
1/2"	FF10-04DGSS	FF10-04DGRSS	FF10-04WGSS	FF10-04WGRSS

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

FF10 Filter Dimensions		
A 2.38 (60)	**A1** 2.50 (64)	**B** 1.75 (44)
C .56 (14)	**D** 5.00 (127)	**E** 5.56 (141)
F 2.12 (54)		

inches (mm)

Ordering Information

FF10	-	04	W	G		SS

Port Type	Port Size	Bowl	Element	Options	Material
- NPT	04 1/2 Inch	D Metal Bowl without Sight Gauge W Metal Bowl with Sight Gauge	G 5 Micron	Blank Manual Twist Drain R Automatic Float Drain	SS Stainless Steel

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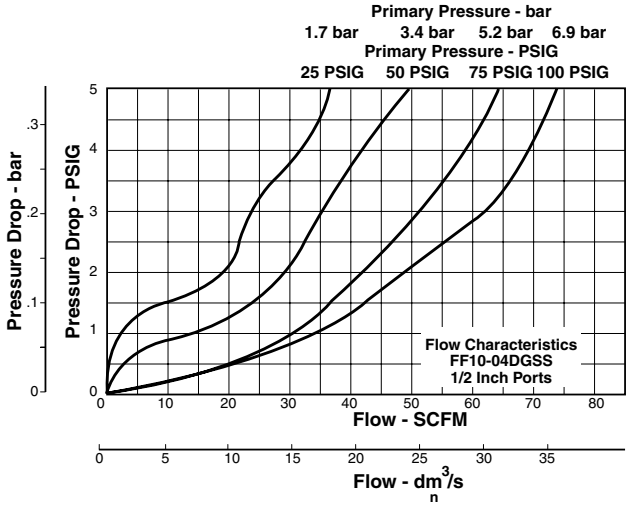
Technical Information



FF10 Filter Kits & Accessories

Drain Kit –
Automatic Float Drain FSA602MDSS
Manual Twist Drain–
Small (Old) SA600Y7-1SS
Large (New) SAP05481

Filter Element Kits –
Particulate (5 Micron) Element EK55G

Pipe Nipple – 1/2" 316 Stainless Steel 616A28-SS

Specifications

Bowl Capacity ..... 4.0 Ounces

Filter Rating ..... 5 Micron

Sump Capacity ..... 1.7 Ounce

Port Threads ..... 1/2 Inch

Pressure & Temperature Ratings –
Manual Twist Drain (D-Bowl) ..... 0 to 300 PSIG (0 to 20.7 bar)
0°F to 180°F (-18°C to 82°C)
Manual Twist Drain (W-Bowl) ..... 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).

Weight ..... 1.9 lb. (0.85 kg)

Materials of Construction

Body ..... 316 Stainless Steel

Bowls ..... 316 Stainless Steel

Deflector ..... Acetal

Drain ..... 316 Stainless Steel

Element Holder ..... Acetal

Filter Element ..... Polyethylene

Seals ..... Fluorocarbon

Sight Gauge ..... Isoplast

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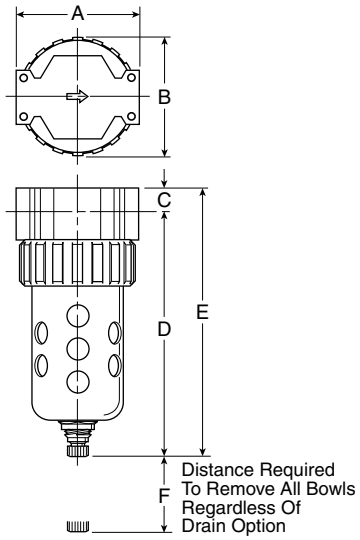
07F Filters – Standard

Features

- Excellent water removal efficiency.
- Unique deflector plate and shroud creates a swirling of the air stream ensuring maximum water and dirt separation.
- Large filter element surface guarantees low pressure drop and increased element life.
- Optional automatic float drain available.
- Shown with metal bowl guard.
- High Flow: 3/8" – 100 SCFM§
  1/2" – 130 SCFM§
  3/4" – 145 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
Poly Bowl‡ / Metal Guard		
3/8"	**07F22B***	**07F26B***
1/2"	**07F32B***	**07F36B***
3/4"	**07F42B***	**07F46B***
Metal Bowl / Sight Gauge		
3/8"	**07F24B***	**07F28B***
1/2"	**07F34B***	**07F38B***
3/4"	**07F44B***	**07F48B***

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

07F Filter Dimensions		
A 3.24 (82)	**B** 3.25 (83)	**C** .70 (18)
D 6.97 (177)	**D†** 7.00 (178)	**E** 7.67 (195)
E† 7.70 (196)	**F** 2.75 (70)	

Inches (mm)

† With Automatic Float Drain

Ordering Information

07F	3	2	B	*	–	–

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

Engineering Level
- * Will be Entered at Factory

Options
- Blank None

Port Type
- Blank NPT

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

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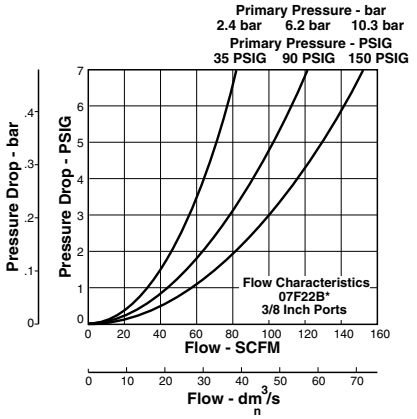
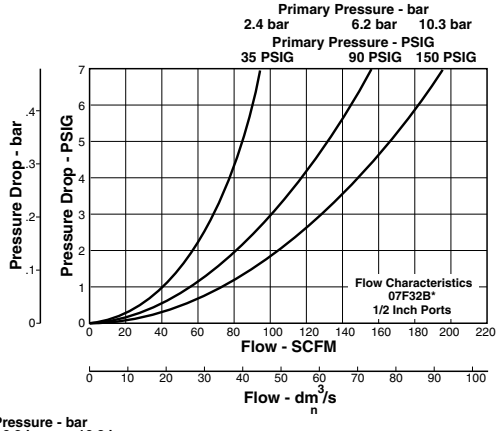
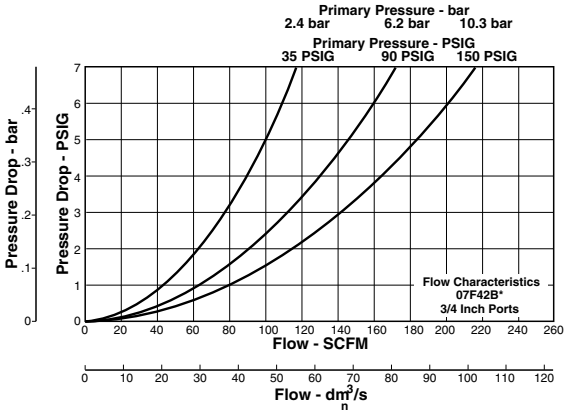
Technical Information







07F Filter Kits & Accessories

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

Drain Kits –
- Automatic Float Drain PS506P
- Twist Drain PS512P

Filter Element Kits –
- 5 Micron Element PS802
- 40 Micron Element PS801

Mounting Bracket Kit PS843P

Sight Gauge Kit PS914P

Specifications

Bowl Capacity ..... 7.2 Ounces

Sump Capacity ..... 2.8 Ounces

Port Threads ..... 3/8, 1/2, 3/4 Inch

Pressure & Temperature Ratings –

Without Differential Pressure Indicator:

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)

With Differential Pressure Indicator: 0 to 150 PSIG (0 to 10.3 bar)
32°F to 125°F (0°C to 52°C)

Automatic Float Drain – 15 to 250 PSIG (1.0 to 17.2 bar)

Weight ..... 2.2 lb. (1.0 kg)

Materials of Construction

Body ..... Zinc

Bowls ..... Transparent Polycarbonate
Metal (Zinc) With or Without Sight Gauge

Bowl Guards ..... Steel

Collar ..... Plastic or Metal

Deflector, Shroud & Baffle ..... Plastic

Drains –
- Twist Drain – Body & Nut ..... Plastic

- Automatic Float Drain –
  - Housing, Float ..... Plastic
  - Seals ..... Nitrile
  - Springs, Push Rod ..... Stainless Steel

Filter Elements –
- 5 Micron (Standard) ..... Plastic

Seals ..... Nitrile

Sight Gauge ..... Polyamide

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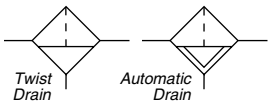
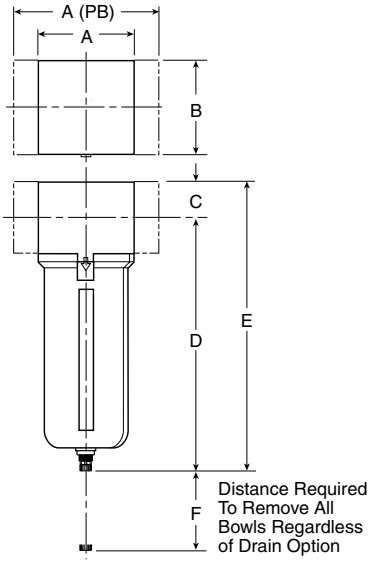
P3NF Filters – Hi-Flow



Features

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies.
- Excellent water removal efficiency.
- Metal bowl with sight gauge.
- Large filter element surface guarantees low pressure drop and increased element life.
- Twist Drain as standard, optional automatic float drain.
- High Flow: 3/4" – 270 SCFM§
  1" – 300 SCFM§
  1-1/2" – 310 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
Metal Bowl / Sight Gauge		
3/4"	**P3NFA96ESM**	**P3NFA96ESA**
1"	**P3NFA98ESM**	**P3NFA98ESA**
1-1/2"#	**P3NFA9PESM**	**P3NFA9PESA**

1" Port Body with 1-1/2" Port Block.

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop, with 40 micron element.

P3NF Filter Dimensions		
A 3.62 (92)	**A (PB)** 5.91 (150)	**B** 3.62 (92)
C 1.38 (35)	**D†** 9.57 (243)	**E†** 10.95 (278)
F 4.92 (125)		

Inches (mm)

† With Twist Drain or Automatic Float Drain

Ordering Information

P3N	F	A	9	8	E	S	M

Design Level

Port Type
9 NPT Female

Note: 3/4 & 1 inch meet ISO 1179-1 Standard.

Port Size
6 3/4" (w/o Port Blocks)
8 1" (w/o Port Blocks)
P 1-1/2" Port Blocks (w/ 1" Ported Body)

Element
E 5 Micron

Bowl
S Metal Bowl w/ Sight Gauge

Drain
M Twist Drain
A Automatic Float Drain

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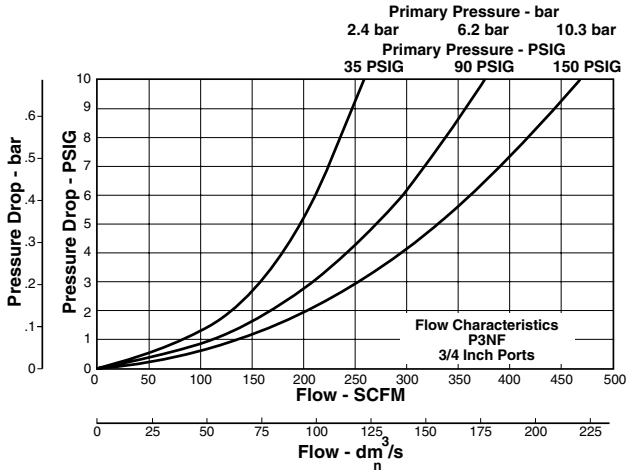
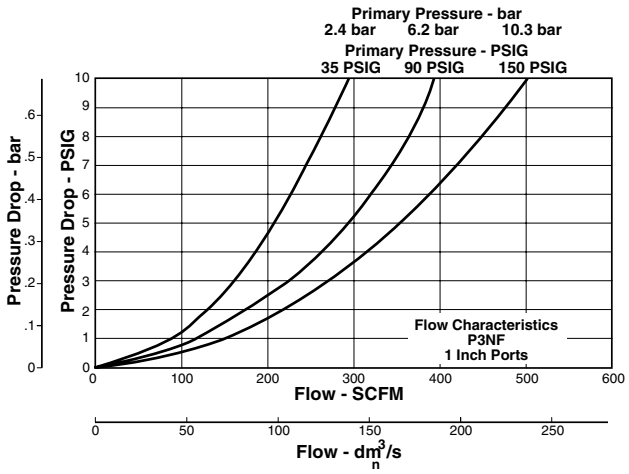
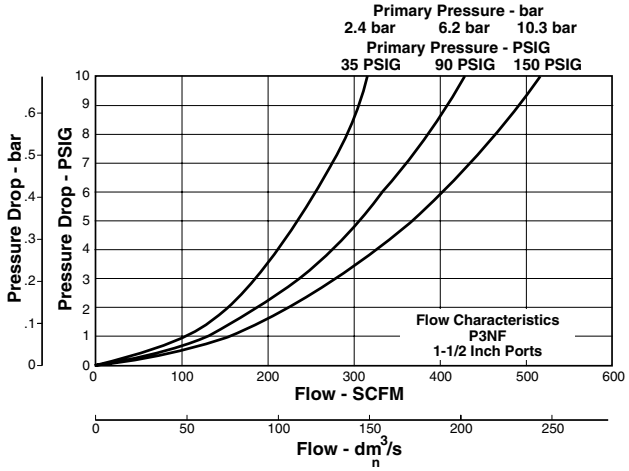
Technical Information







P3NF Filter Kits & Accessories

Bowl Kits –
Metal Bowl –
Sight Gauge / Automatic Float Drain P3NKA00BSA
Sight Gauge / Twist Drain P3NKA00BSM

Bowl Latch Kit C11A33

Drain Kit –
Automatic Float Drain PS506P
Twist Drain PS512P

Filter Elements –
5 Micron Element P3NKA00ESE
40 Micron Element P3NKA00ESG

Mounting Bracket Kit P3NKA00MW

Sight Gauge Kit P3NKA00PE

Specifications

Pressure & Temperature Rating –
0 to 250 PSIG (0 to 17 bar) 32°F to 175°F (0°C to 80°C)
Automatic Float Drain – 15 to 250 PSIG (1.0 to 17 bar)

Bowl Capacity ..... 18.0 Ounces

Sump Capacity ..... 6.8 Ounces

Weight –
3/4" ..... 3.5 lb. (1.6 kg)
1" ..... 3.5 lb. (1.6 kg)
1-1/2" # ..... 4.6 lb. (2.1 kg)

Materials of Construction

Body ..... Aluminum

Deflector ..... Plastic

Drain ..... Plastic

Filter Elements –

5 Micron (Standard) ..... Plastic

Seals ..... Nitrile

Sight Gauge ..... Polyamide (Nylon)

1" Port Body with 1-1/2" Port Block.

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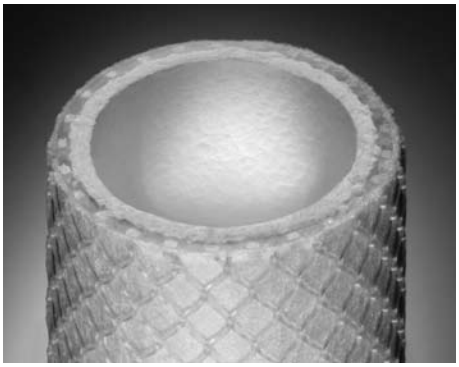
Coalescing Filters

- Pipe Sizes 1/8 thru 3/4 Inch
- Flows to 44 SCFM
- Pressures to 250 PSIG

Coalescing filters are designed to remove 99.9% + of the liquid aerosols, both water and oil, and submicron particulate matter from your pneumatic system. These filters will provide oil free air for applications such as spray painting, air gauging, pneumatic instrumentation, printing and packaging.

- Miniature Q5S/Q1S and H5S/H1S Series, 1/8 and 1/4 Inch
- Miniature FF501 Stainless Steel, 1/4 Inch
- Economy 15F Series, 1/4 and 3/8 Inch
- Compact 11F Series, 1/4, 3/8 and 1/2 Inch
- Standard FF11 Stainless Series, 1/2 Inch
- Standard 12F Series, 3/8, 1/2 and 3/4 Inch

Coalescing Filter Elements



Filter Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3
10	95%	0.85	1.0	0.5	0.5

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

Filter Element Selection

Element Grade	Applications
6	General air coalescing applications when total removal of liquid aerosols and suspended fines is required in all pressure ranges. Protection of air dryers, air gauging, air logic, modulating systems, critical air conveying, most breathing air systems, etc.
10	Precoalescer or prefilter for Grade 6 to remove gross amounts of water and oil, or tenacious aerosols which are difficult to remove. Upgrading existing particulate equipment to coalescing without increase in pressure drop.

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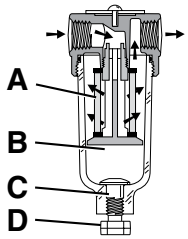
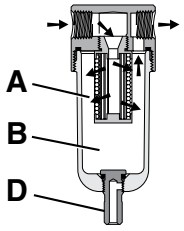
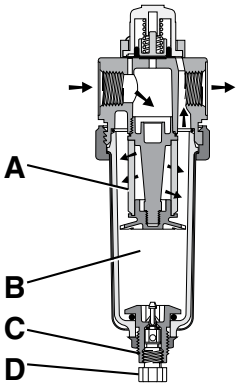


Q5S/Q1S/H5S/H1S



FF501

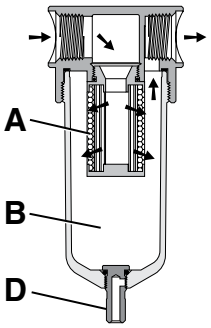


15F

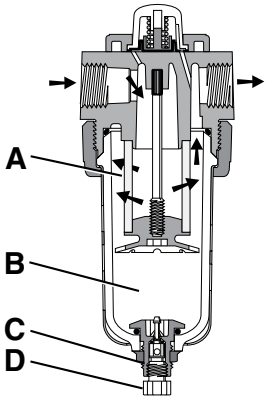
The contaminated air enters the element interior and is forced through a thick matrix of borosilicate glass fibers coated with epoxy **(A)**. Flow then passes through an outer structural support and, at this stage, has removed up to 99.97% + of the sub-micron aerosols evident in the contaminated air. These tiny droplets coalesce together and are drawn away from the filter surface by the drain layers of polyester. The droplets now begin a gravitational passage to the filter sump **(B)** where they can be manually or automatically drained.

The clean, filtered air now passes out into the pneumatic system. The Air Line Coalescing Filter removes both liquid aerosols and sub-micron particulate matter.

Collected liquids and particles in the “quiet zone” should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by the manual drain **(C)** which is actuated by twisting knob **(D)** counterclockwise.



FF11



11F / 12F

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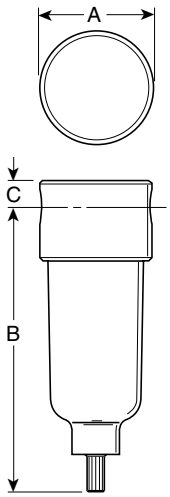
Q5S/Q1S and H5S/H1S Coalescing Filters – Miniature

Features

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic pulse drains.
- Grade 6 element, 99.97% efficiency.
- High Flow: Grade 6 Element
  1/8" – 7.7 SCFM§
  1/4" – 7.7 SCFM§
  Grade 10 Element
  1/8" – 7.7 SCFM§
  1/4" – 7.7 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Drain
Poly Bowl ‡		
1/8"	Q5S-6HM06-013	AQ5S-6HM06-013
1/4"	Q1S-6HM06-013	AQ1S-6HM06-013
Metal Bowl		
1/8"	H5S-6HM06-013	AH5S-6HM06-013
1/4"	H1S-6HM06-013	AH1S-6HM06-013

Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "6" with "10")

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet and 2-3 PSIG pressure drop.

Dimensions		
A 1.69 (43)	B 3.82 (97)	B* 3.87 (99)
C 0.39 (10)		

Inches (mm)
*Metal Bowl

Ordering Information

	Q	1S	-	6HM	06-013

Drain	
A	Automatic Drain
Blank	Manual Twist Drain

Bowl Options	
Q	Polycarbonate
H	Metal Bowl

Port Size	
5S	1/8 Inch
1S	1/4 Inch

Port Type	
-	NPT

Elements	
6HM	Grade 6
10 HM	Grade 10

For grade specifications, please see next page.

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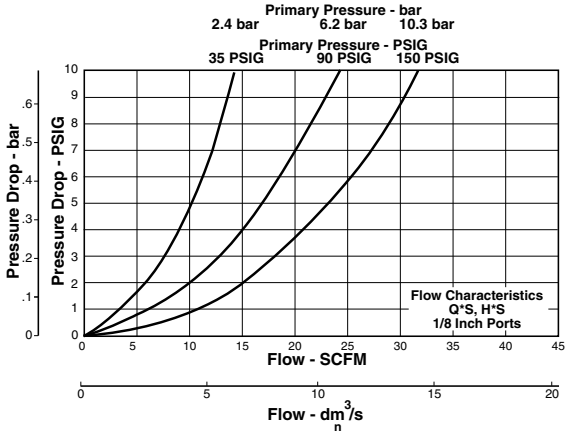
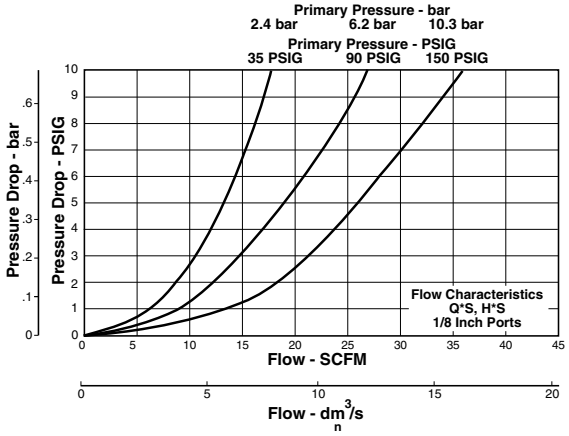
Technical Information

Q*S, H*S
Grade 6



Q*S, H*S
Grade 10



Q5S/Q1S and H5S/H1S Coalescing Filter Kits & Accessories

Bowl Kits –
- Poly Bowl – Automatic Pulse Drain 40914
- Twist Drain 40733
- Metal Bowl – Automatic Pulse Drain 41028
- Twist Drain 41581

Filter Element Kits – Grade 6 (Standard) .....6HM06-013 x 10
Grade 10 (Optional) .....10HM06-013 x 10
Mounting Bracket Kit PS417BP

Specifications

Automatic Pulse Drain Tube Barb .....1/8 Inch
Bowl Capacity ..... 1 Ounce
Operation –
- Normal Operating Pressure Drop ..... 2-3 PSIG
- Maximum Recommended Pressure Drop ..... 10 PSIG (Element should be replaced)

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)
- Automatic Pulse Drain.....10 to 250 PSIG (0.7 to 17.2 bar) at 125°F (52°C) or less

Weight ..... 0.41 lb. (0.18 kg)

Materials of Construction

Body ..... Aluminum
Bowls ..... Transparent Polycarbonate
Metal (Zinc)
Drains – Twist Drain –
- Body & Stem .....Plastic
- Seals ..... Nitrile

Automatic Pulse Drain –
- Piston & Seals ..... Nitrile
- Stem, Seat, Adaptor & Washers ..... Aluminum

Element Holder .....Plastic
Filter Element ..... Borosilicate Microglass fibers
Seals ..... Nitrile

Filter Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3
10	95%	0.85	1.0	0.5	0.5

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

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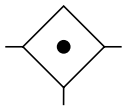
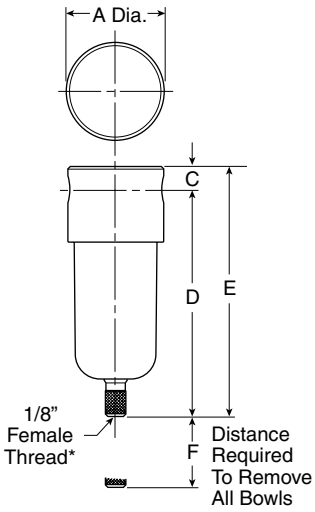
FF501 Coalescing Filter – Miniature



Features

- Stainless steel construction handles most corrosive environments.
- Meets NACE specifications MR-01-75/ISO 15156.
- 1/8" female threaded drain.
- Rated Flow: 1/4" - 8 SCFM @ 100 PSIG inlet with 1.5 PSIG drop



Port Size	NPT
	Manual Twist Drain
1/4"	FF501-02DHSS

FF501 Coalescing Filter Dimensions		
A 1.56 (40)	C 0.31 (8)	D 3.69 (94)
E 4.00 (102)	F 1.58 (40)	

inches
(mm)

Ordering Information

FF501	-	02	D	H	SS

Port Type	Port Size	Bowl	Element	Material
- NPT	02 1/4 Inch	D Metal Bowl without Sight Gauge	H Grade 6	SS Stainless Steel

For grade specifications, please see next page.

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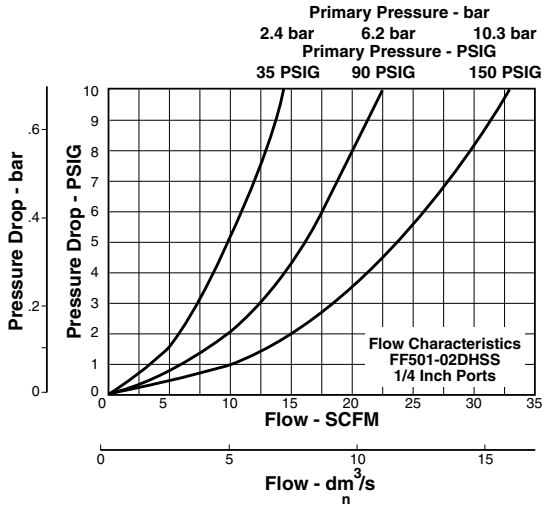
Technical Information



FF501 Filter Kits & Accessories

Filter Element ..... 6HM06-013 x 10

Manual Twist Drain SAP05481

Specifications

Bowl Capacity ..... 1.0 Ounces

Filter Rating ..... 99.97% efficient at 0.01 Micron

Port Threads ..... 1/4 Inch

Pressure & Temperature Ratings –
Manual Twist Drain ..... 0 to 300 PSIG (0 to 20.7 bar)
0°F to 180°F (-18°C to 82°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)

FF501 Filter Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

Materials of Construction

Body ..... 316 Stainless Steel

Bowls ..... 316 Stainless Steel

Drain ..... 316 Stainless Steel

Element Holder ..... Acetal

Filter Element ..... Borosilicate Microglass Fiber

Seals ..... Fluorocarbon

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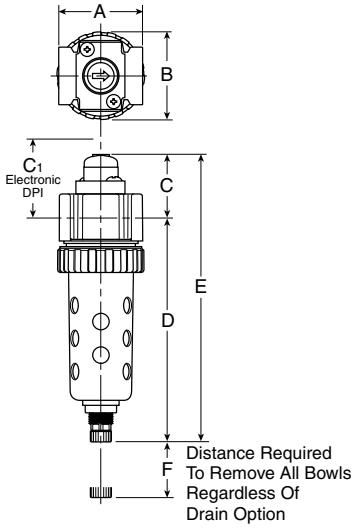
15F Coalescing Filters – Economy

Features

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic pulse drains.
- Pressure differential indicator standard.
- High Flow: Grade 6 Element — 1/4" – 30 SCFM §, 3/8" – 30 SCFM §; Grade 10 Element — 1/4" – 51 SCFM§, 3/8" – 66 SCFM§

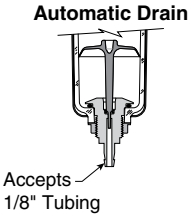


Port Size	NPT	
	Twist Drain	Automatic Pulse Drain
Poly Bowl‡ / Metal Guard		
1/4"	**15F12E***	**15F1PE***
3/8"	**15F22E***	**15F2PE***
Metal Bowl / Sight Gauge		
1/4"	**15F14E***	**15F1TE***
3/8"	**15F24E***	**15F2TE***

Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "E" with "H" in the 6th position). For other models refer to ordering information below.

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet and 2-3 PSIG pressure drop.



15F Coalescing Filter Dimensions		
A 2.00 (51)	**B** 2.06 (52)	**C** 1.50 (38)
C1 1.86 (47)	**D** † 5.35 (136)	**E** † 6.85 (174)
F 1.77 (45)		

Inches (mm)

† With Twist Drain or Automatic Float Drain

Ordering Information

15F	1	2	E	*	—	—

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

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

Elements
- E Grade 6
- H Grade 10

For grade specifications, please see next page.

Engineering Level
- * Will be Entered at Factory

Port Type
- Blank NPT

* 1/4 & 3/8 inch meet ISO 1179-1 Standard.

Options
- Blank With Differential Pressure Indicator

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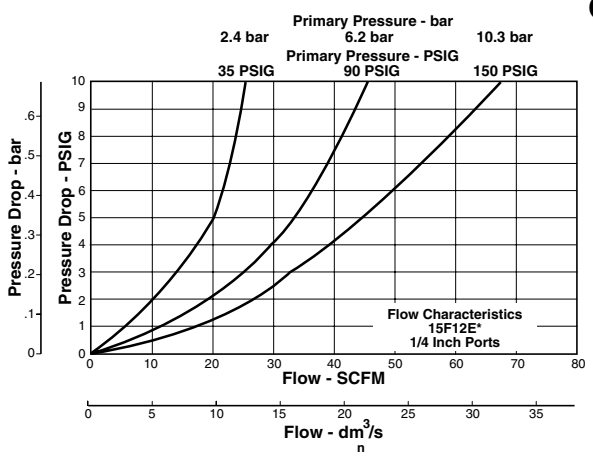
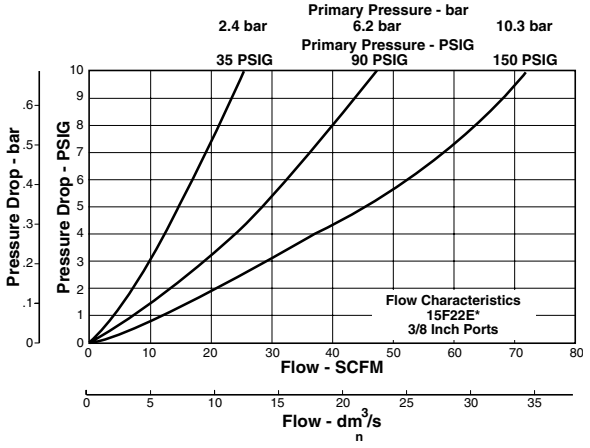
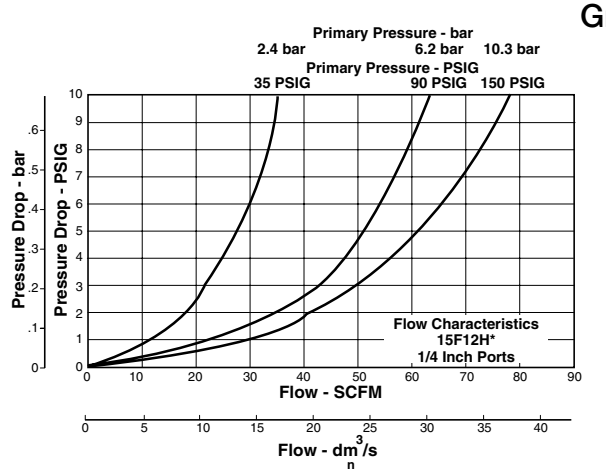
Technical Information

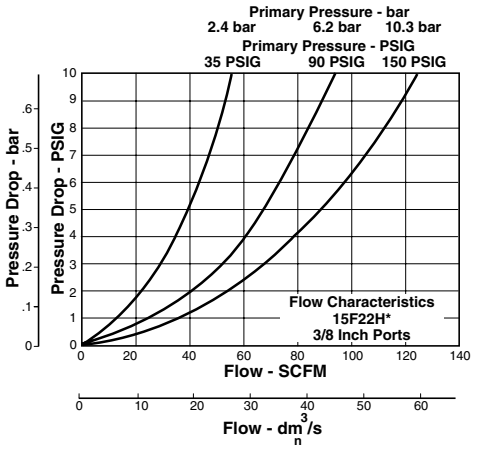
Grade 6





Grade 10





15F Coalescing Filter 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

DPI Replacement Kit PS781P

Drain Kit – Automatic Pulse Drain PS998P
Twist Drain PS512P

Filter Element Kits – Grade 6 (Standard) PS924P
Grade 10 (Optional) PS930P

Mounting Bracket Kit PS943P

Sight Gauge Kit PS914P

Specifications

Bowl Capacity ..... 2.0 Ounces

Sump Capacity ..... 0.9 Ounce

Port Threads ..... 1/4, 3/8 Inch

Pressure & Temperature Ratings –
With Differential Pressure Indicator: 0 to 150 PSIG (0 to 10.3 bar)
32°F to 125°F (0°C to 52°C)

Weight ..... 1.2 lb. (0.54 kg)

Materials of Construction

Body ..... Zinc

Bowls ..... Transparent Polycarbonate
Metal (Zinc) Without Sight Gauge

Bowl Guards ..... Steel

Collar ..... Plastic

Drain ..... Plastic

Filter Element ..... Borosilicate microglass fibers

Seals ..... Nitrile

Sight Gauge, DPI ..... Polyamide (Nylon)

15F Filter Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3
10	95%	0.85	1.0	0.5	0.5

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

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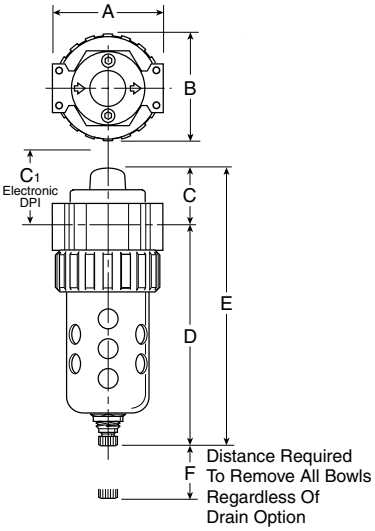
Oxford, MI
www.parker.com/finitefilter

11F Coalescing Filters – Compact

Features

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic float drains.
- Pressure differential indicator standard.
- Shown with recommended metal bowl guard.
- High Flow: Grade 6 Element — 1/4" – 45 SCFM§, 3/8" – 48 SCFM§, 1/2" – 65 SCFM§; Grade 10 Element — 1/4" – 60 SCFM§, 3/8" – 72 SCFM§, 1/2" – 95 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
Poly Bowl ‡ / Metal Guard		
1/4"	**11F12E***	**11F16E***
3/8"	**11F22E***	**11F26E***
1/2"	**11F32E***	**11F36E***
Metal Bowl / Sight Gauge		
1/4"	**11F14E***	**11F18E***
3/8"	**11F24E***	**11F28E***
1/2"	**11F34E***	**11F38E***

Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "E" with "H" in the 6th position). For other models refer to ordering information below.

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet and 2-3 PSIG pressure drop.

11F Coalescing Filter Dimensions		
A 2.81 (71)	**B** 2.74 (70)	**C** 1.46 (37)
C_1 1.81 (46)	**D** 5.69 (145)	**D †** 5.74 (146)
E 7.15 (182)	**E †** 7.20 (183)	**F** 2.25 (57)

Inches (mm)

† With Automatic Float Drain

Ordering Information

11F	1	2	E	*	–	–

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
E Grade 6
H Grade 10

For grade specifications, please see next page.

Engineering Level
* Will be Entered at Factory

Options
Blank With Differential Pressure Indicator

Port Type
Blank NPT

* 1/4 & 3/8 inch meet ISO 1179-1 Standard.

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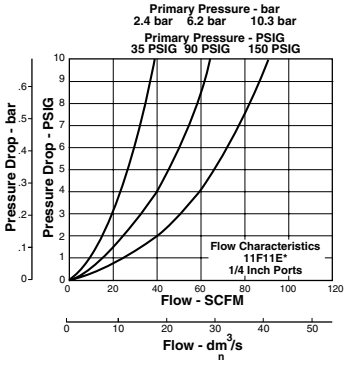
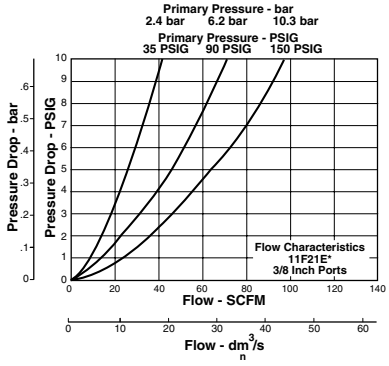
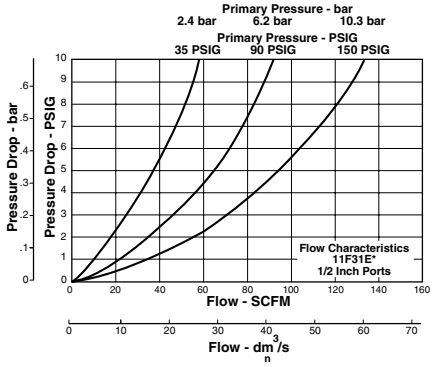
Technical Information

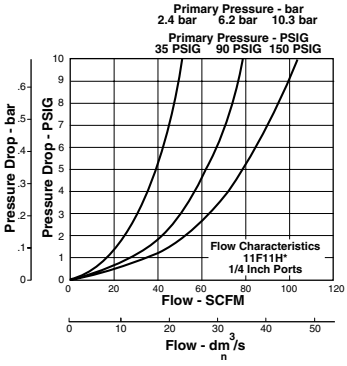
Grade 6

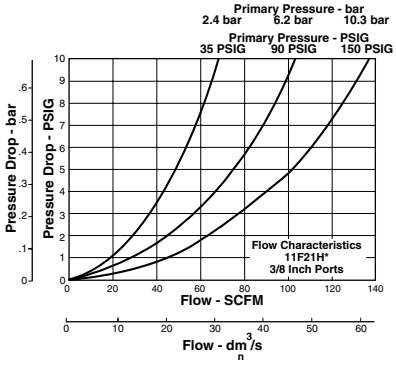


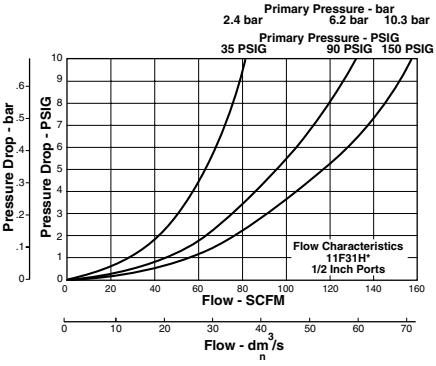




Grade 10







11F Coalescing Filter Kits & Accessories

Bowl Guard Kit PS705P

Bowl Kits –
Poly Bowl – Automatic Float Drain PS722P
Twist Drain PS732P
Metal Bowl – Sight Gauge / Automatic Float Drain PS723P
Sight Gauge / Twist Drain PS735P

DPI Replacement Kit PS781P

Drain Kits – Automatic Float Drain PS506P
Twist Drain PS512P

Filter Element Kits – Grade 6 (Standard) PS724P
Grade 10 (Optional) PS730P

Mounting Bracket Kit PS743P

Sight Gauge Kit PS914P

Specifications

Bowl Capacity ..... 4.4 Ounces

Sump Capacity ..... 1.75 Ounces

Operation – Normal Operating Pressure Drop ..... 2 PSIG
Maximum Recommended Pressure Drop ..... 10 PSIG
(Element should be replaced)
Minimum Recommended Flow –
20% Nominal Rating of Element

Port Threads ..... 1/4, 3/8, 1/2 Inch

Weight ..... 1.5 lb (0.7 kg)

Materials of Construction

Body ..... Zinc

Bowls ..... Transparent Polycarbonate
Metal (Zinc) With or Without Sight Gauge

Bowl Guard ..... Steel

Collar ..... Plastic

Drains – Twist Drain – Body & Nut ..... Plastic
Automatic Float Drain – ..... Housing, Float Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel

Filter Element ..... Borosilicate microglass fibers

Seals ..... Nitrile

Sight Gauge ..... Polyamide

11F Filter Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3
10	95%	0.85	1.0	0.5	0.5

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

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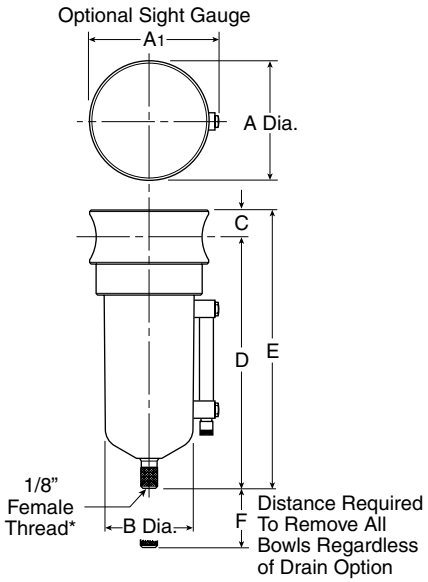
FF11 Coalescing Filter – Standard

Features

- Stainless steel construction handles most corrosive environments.
- Meets NACE specifications MR-01-75/ISO 15156.
- 1/8" female threaded drain.
- High Flow: 1/2" - 30 SCFM §



Port Size	NPT without sight gauge		NPT with sight gauge	
	Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
1/2"	Metal Bowl With Sight Gauge			
	FF11-04DJSS	FF11-04DJRSS	FF11-04WJSS	FF11-04WJRSS

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

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet and 2-3 PSIG pressure drop.

FF11 Coalescing Filter Dimensions		
A 2.38 (60)	**A1** 2.50 (64)	**B** 1.75 (44)
C 0.56 (14)	**D** 5.00 (127)	**E** 5.56 (141)
F 2.12 (54)		

inches
(mm)

Ordering Information

FF11	-	04	W	J		SS

Port Type
- NPT

Port Size
04 1/2 Inch

Bowl
- D Metal Bowl without Sight Gauge
- W Metal Bowl with Sight Gauge

Element
J Grade 6

Options
- Blank Manual Twist Drain
- R Automatic Float Drain

Material
SS Stainless Steel

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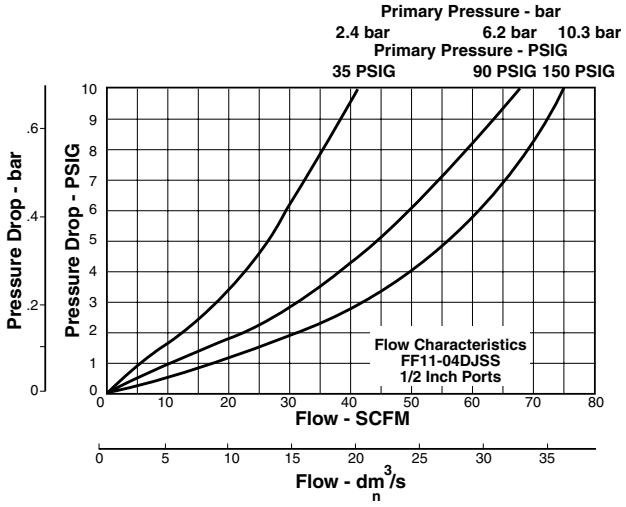
Technical Information



FF11 Filter Kits & Accessories

Drain Kit –
Automatic Float Drain SA602MDSS
Manual Twist Drain SAP05481

Filter Element Kits –
Grade 6 .....6HM07-019 x 10

Specifications

Bowl Capacity .....4.0 Ounces

Filter Rating ..... 0.01 Micron

Sump Capacity .....1.7 Ounce

Port Threads ..... 1/2 Inch

Pressure & Temperature Ratings –
Manual Twist Drain ..... 0 to 300 PSIG (0 to 20.7 bar)
0°F to 180°F (-18°C to 82°C)
Manual Twist Drain (W).....0 to 250 PSIG (0 to 17.2 bar)
0°F to 150°F (-18°C to 66°C)
Automatic Float Drain .....0 to 175 PSIG (0 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).

Weight .....1.9 lb. (0.85 kg)

Materials of Construction

Body ..... 316 Stainless Steel

Bowls ..... 316 Stainless Steel

Drain ..... 316 Stainless Steel

Element Holder ..... Acetal

Filter Element .....Borosilicate Microglass Fiber

Seals ..... Fluorocarbon

Sight Gauge .....Isoplast

FF11 Filter Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

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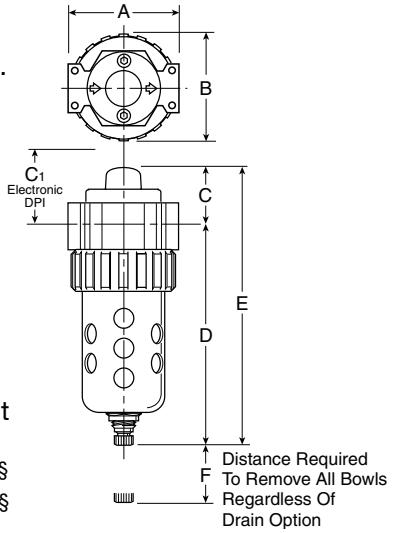
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

12F Coalescing Filters – Standard

Features

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic float drains.
- Pressure differential indicator standard.
- Shown with metal bowl guard.
- High Flow: Grade 6 Element — 3/8" – 73 SCFM§, 1/2" – 75 SCFM§, 3/4" – 80 SCFM§; Grade 10 Element — 3/8" – 98 SCFM§, 1/2" – 125 SCFM§, 3/4" – 160 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
Poly Bowl ‡ / Metal Guard		
3/8"	**12F22E***	**12F26E***
1/2"	**12F32E***	**12F36E***
3/4"	**12F42E***	**12F46E***
Metal Bowl / Sight Gauge		
3/8"	**12F24E***	**12F28E***
1/2"	**12F34E***	**12F38E***
3/4"	**12F44E***	**12F48E***

Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "E" with "H" in the 6th position). For other models refer to ordering information below.

‡ For polycarbonate bowl see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet and 2-3 PSIG pressure drop.

12F Coalescing Filter Dimensions		
A 3.24 (82)	**B** 3.25 (83)	**C** 1.63 (41)
C1 2.00 (51)	**D** 6.97 (177)	**D †** 7.00 (178)
E 8.60 (218)	**E †** 8.63 (219)	**F** 2.75 (70)

Inches (mm)

† With Automatic Float Drain

Ordering Information

12F	3	2	E	*	–	–

Port Size
- 2 3/8 Inch
- 3 1/2 Inch
- 4 3/4 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
- E Grade 6
- H Grade 10

For grade specifications, please see next page.

Engineering Level
- * Will be Entered at Factory

Options
- Blank With Differential Pressure Indicator

Port Type
- Blank NPT

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

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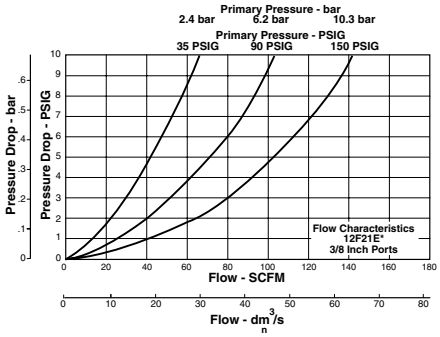
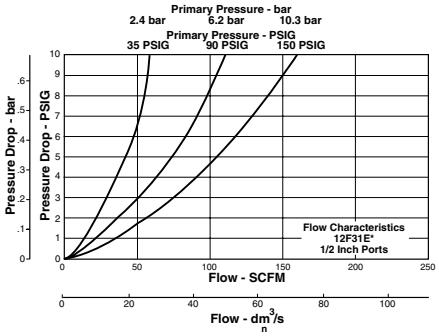
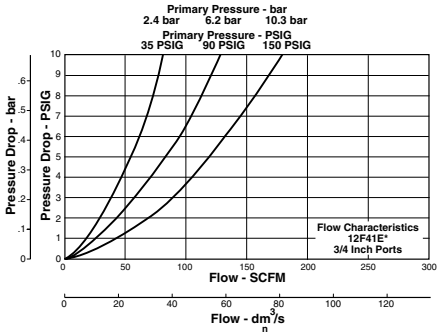
Technical Information

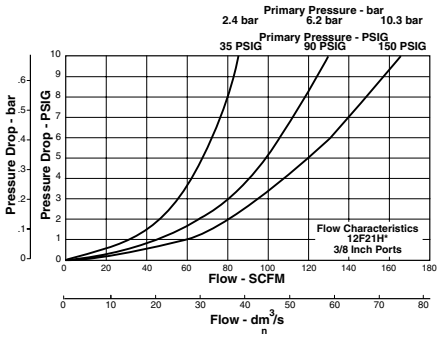
Grade 6

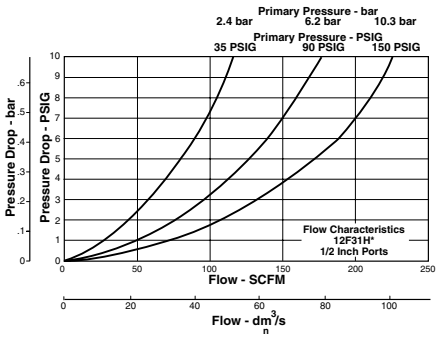


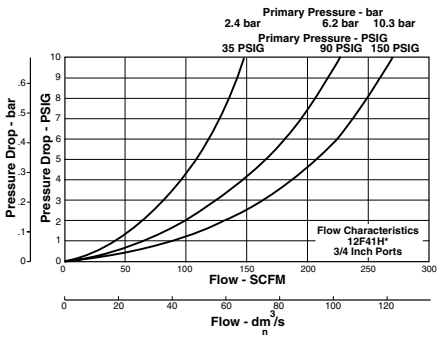




Grade 10







12F Coalescing Filter Kits & Accessories

Bowl Guard Kit PS805P

Bowl Kits –

Poly Bowl – Automatic Float Drain.....PS822P
Twist Drain PS832P
Metal Bowl –Sight Gauge / Automatic Float Drain PS823P
Sight Gauge / Twist Drain..... PS835P

DPI Replacement Kit PS781P

Drain Kits – Automatic Float Drain..... PS506P
Twist Drain PS512P

Filter Element Kits – Grade 6 (Standard) PS824P
Grade 10 (Optional) PS830P

Mounting Bracket Kit PS843P

Sight Gauge Kit PS914P

Specifications

Bowl Capacity .....7.2 Ounces

Sump Capacity .....2.8 Ounces

Operation – Normal Operating Pressure Drop.....2 PSIG
Maximum Recommended Pressure Drop .....10 PSIG
(Element should be replaced)

Port Threads .....3/8, 1/2 & 3/4 Inch

Pressure & Temperature Ratings –

With Differential Pressure Indicator: ..... 0 to 150 PSIG (0 to 10.3 bar)
32°F to 125°F (0°C to 52°C)
Automatic Float Drain – 15 to 250 PSIG (1.0 to 17.2 bar)

Weight .....2.4 lb. (1.1 kg)

Materials of Construction

Body ..... Zinc

Bowls .....Transparent Polycarbonate
Metal (Zinc) With or Without Sight Gauge

Bowl Guard .....Steel

Collar .....Plastic or Metal

Drains – Twist Drain – Body & Nut..... Plastic
Automatic Float Drain – .....Housing, Float Plastic
Seals .....Nitrile
Springs, Push Rod ..... Stainless Steel

Filter Element .....Borosilicate Microglass fibers

Seals .....Nitrile

Sight Gauge ..... Polyamide

12F Filter Media Specifications

Grade Designation	Coalescing Efficiency 0.3 to 0.6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Micron Rating	Pressure Drop (PSID) @ Rated Flow[2]	
				Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3
10	95%	0.85	1.0	0.5	0.5

[1]Tested per ADF-400 at 40 ppm inlet.
[2]Add dry + wet for total pressure drop.

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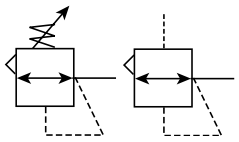
Regulators



- Pipe Sizes 1/8 thru 1½ Inch
- Flows to 300 SCFM
- Pressures to 250 PSIG

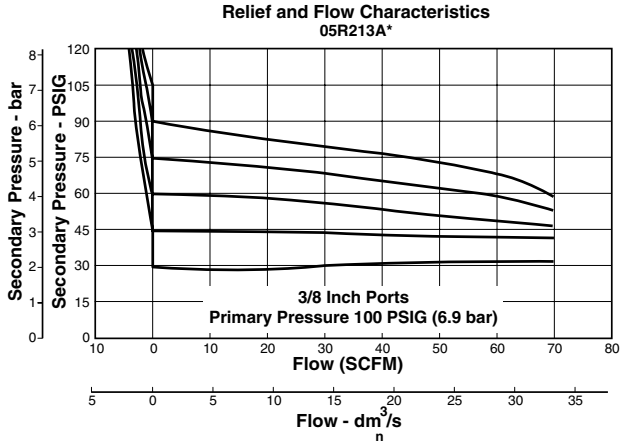
Air regulators are designed to provide quick response and accurate pressure regulation for the most demanding industrial applications.

- Miniature 14R Series, 1/8 and 1/4 Inch
- Miniature FR364 Stainless Series, 1/4 Inch
- Economy 05R Series, 1/4 and 3/8 Inch
- Compact 06R Series, 1/4, 3/8 and 1/2 Inch
- Standard FR11 Stainless Series, 1/2 Inch
- Standard 07R Series, 3/8, 1/2 and 3/4 Inch
- Hi-Flow P3NR Series, 3/4, 1 and 1½ Inch
- Pilot Controlled 11R, 12R Series, 1/4 thru 3/4 Inch

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 regulator by choosing the curve that offers minimum pressure drop at desired flow in SCFM.

Reading Flow Charts to Size 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.

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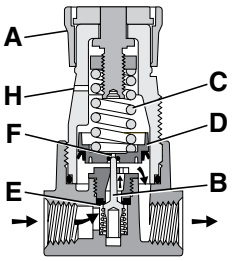
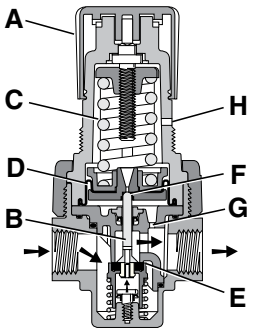


14R

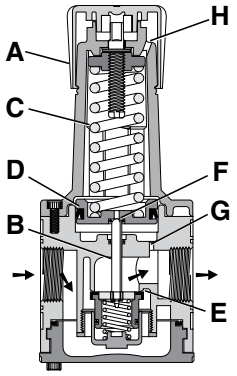


05R, 06R, 07R

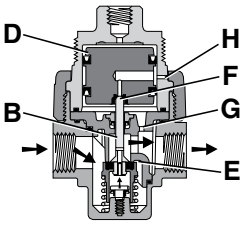
With the adjusting knob **(A)** turned fully counterclockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly **(B)** is closed. Turning the adjusting knob clockwise applies a load to control spring **(C)**. This load causes the piston /diaphragm **(D)** and the valve poppet assembly **(B)** to move downward allowing flow across the seat area **(E)** created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the piston / diaphragm **(D)** and offsets the load of spring **(C)**. As downstream pressure rises, poppet assembly **(B)** and control piston **(C)** move upward until the area **(E)** is closed and the load of the spring **(C)** and pressure under piston / diaphragm **(D)** are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the piston / diaphragm **(D)**. The load of control spring **(C)** now causes the poppet assembly to move downward opening seat area **(E)** allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening **(E)**.

During low flow requirements, the amount of opening at the seat **(E)** is small, while at high flows it is large. The downstream pressure signal, which regulates the amount of opening, requires an adjustment over this range, in order to attempt a constant output.
This adjustment is the orifice **(G)**, which is sized and located in such a manner as to provide a compensation to the downstream pressure signal transmitted to the piston. This effect is called aspiration and its effect is to maintain downstream pressure nearly constant over a wide range of flow demands.

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the piston / diaphragm **(D)** to move upward against control spring **(C)**, open vent hole **(F)**, and vent the excess pressure to atmosphere through the hole in the bonnet **(H)**. (This occurs in the relieving type regulator only.)



P3NR



11R, 12R

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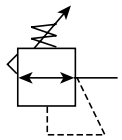
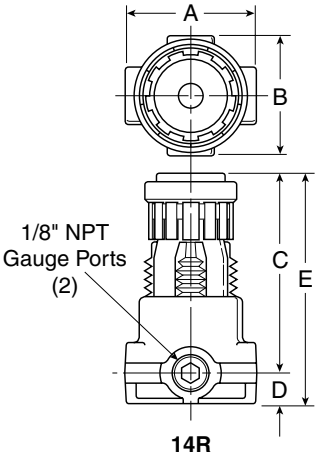
14R Regulators – Miniature



Features

- Unbalanced poppet standard.
- Solid control piston with lip seal for extended life.
- Non-rising adjusting knob.
- Compact, 2.88 inch (73,2mm) high by 1.65 inch (42mm) wide.
- Easily serviced.
- High Flow: 1/8" – 13 SCFM§
  1/4" – 15 SCFM§



14R

Port Size	NPT
Without Gauge	
1/8"	**14R013F***
1/4"	**14R113F***

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

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

14R Regulator Dimensions					
	A	**B**	**C**	**D**	**E**
14R	1.65 (42)	1.56 (40)	2.50 (63,5)	0.38 (10)	2.88 (73)

Inches (mm)

Ordering Information

14R	1	13	F	*	—	—	---

Port Size
- 0 1/8 Inch Pipe, 1/8 Inch Gauge Port
- 1 1/4 Inch Pipe, 1/8 Inch Gauge Port

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

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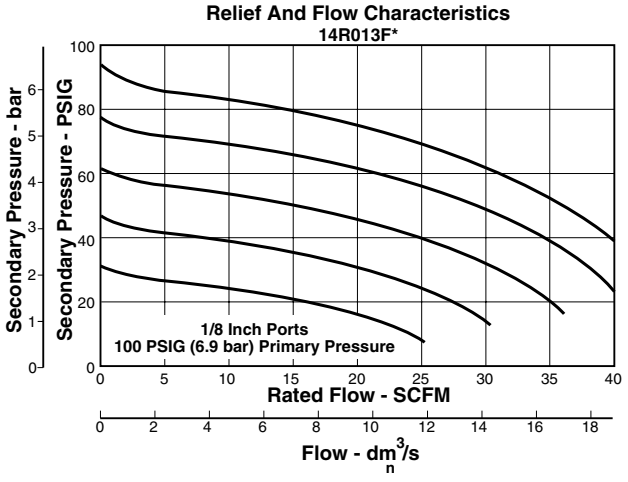
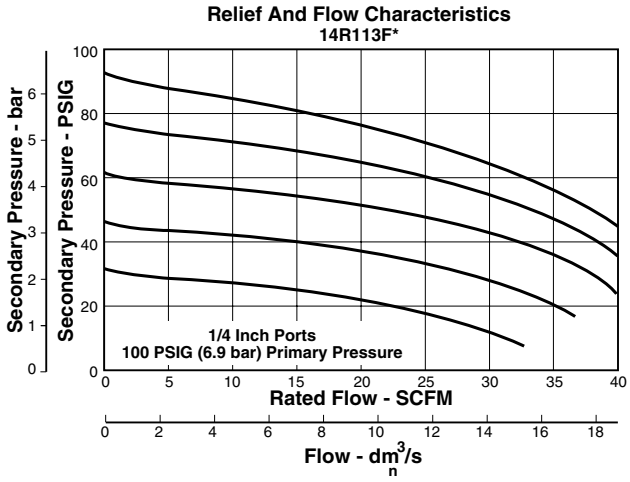
Technical Information





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.

14R Regulator Kits & Accessories

Body Service Kit – Unbalanced PS424BP

Bonnet Assembly Kit L01369

Gauges – 30 PSIG, 1/8" NPT (0 to 2.1 bar)..... K4515N18030
60 PSIG, 1/8" NPT (0 to 4.1 bar)..... K4515N18060
160 PSIG, 1/8" NPT (0 to 11.0 bar)..... K4515N18160

Mounting Bracket Kit (Includes Panel Mount Nut) PS417BP

Panel Mount Nuts – Plastic P78652
Metal P01531

Service Kits – Relieving..... PS423P

Springs – 2-125 PSIG Range (Gold)..... P01173

Specifications

Gauge Ports (2) ..... 1/8 Inch
(Can be used for Full Flow)

Port Threads ..... 1/8, 1/4 Inch

Pressure & Temperature Ratings – 0 to 300 PSIG (0 to 20.7 bar)
32°F to 125°F (0°C to 52°C)
Low Temperature ..... -4°F to 125°F (-20°C to 52°C)

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

Weight – 14R..... 0.3 lb. (0.14 kg)

Materials of Construction

Adjusting Nut ..... Brass

Adjusting Stem & Spring ..... Steel

Body ..... Zinc

Bonnet, Seat, Piston & Valve Poppet ..... Plastic

Seals ..... Nitrile

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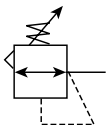
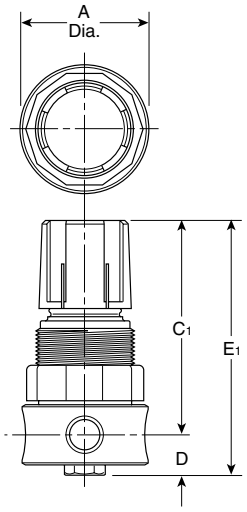
FR364 Regulator – Miniature



Features

- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- Meets NACE specifications MR-01-75/ISO 15156.
- High Flow: 1/4" – 12 SCFM§



FR364

Series	Adjustment Type	Port Size	NPT
FR364	Knob	1/4"	FR364-02CSS

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

FR364 Regulator Dimensions	
A 1.56 (40)	C_1 2.56 (65)
D 0.50 (13)	E_1 3.06 (78)

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

FR364	-	02	C	SS

Series	Port Type	Port Size	Pressure Range	Material
FR364 Standard Knob	- NPT	02 1/4 Inch	C 0-125 PSIG (0-8.5 bar)	SS Stainless Steel

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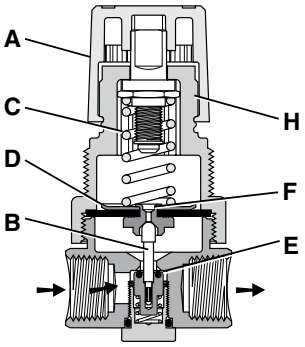
Operation



FR364

With the adjusting knob **(A)** turned fully counter-clockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly **(B)** is closed. Turning the adjusting knob clockwise applies a load to control spring **(C)**. This load causes the diaphragm **(D)** and the valve poppet assembly **(B)** to move downward allowing flow across the seat area **(E)** created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm **(D)** and offsets the load of spring **(C)**. As downstream pressure rises, poppet assembly **(B)** and diaphragm **(D)** move upward until the area **(E)** is closed and the load of the spring **(C)** and pressure under diaphragm **(D)** are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm **(D)**. The load of control spring **(C)** now causes the poppet assembly to move downward opening seat area **(E)** allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening **(E)**.

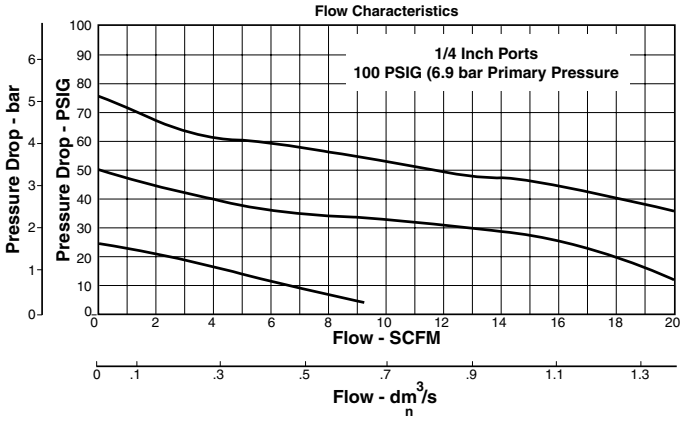
Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm **(D)** to move upward against control spring **(C)**, open vent hole **(F)**, and vent the excess pressure to atmosphere through the hole in the bonnet **(H)**. (This occurs in the relieving type regulator 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.



FR364 Regulator Kits & Accessories

Bonnet Kit (Knob Included) CKR364YSS

Gauge –
160 PSIG (0 to 1100 kPa) K4515N14160SS

Panel Mount Bracket (Stainless) 161X57-SS

Panel Mount Nut –
Stainless R05X51SS
Plastic R05X51-P

Service Kit –
Relieving RKR364YSS

Springs –
0-125 PSIG Range SPR-377-1-SS

Specifications

Gauge Port ..... 1/4 Inch

Operation ..... Fluorocarbon Diaphragm

Port Threads ..... 1/4 Inch

Pressure & Temperature Ratings – ..... 300 PSIG Max (20.7 bar)
40°F to 150°F (4°C to 66°C)

Weight ..... 0.5 lb. (0.23 kg)

Materials of Construction

Adjustment Mechanism / Springs ..... 316 Stainless Steel

Adjusting Knob ..... Polypropylene

Body ..... 316 Stainless Steel

Bonnet ..... Acetal

Bottom Plug ..... 316 Stainless Steel

Poppet ..... 316 Stainless Steel

Seals ..... Fluorocarbon

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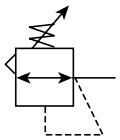
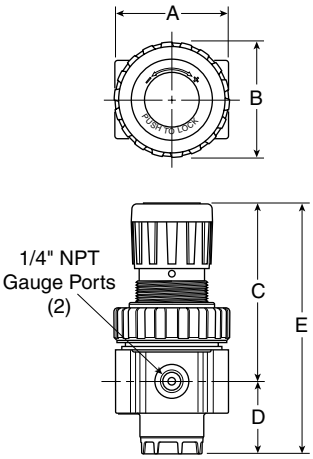
05R Regulators – Economy



Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Removable non-rising knob for panel mounting and tamper resistance.
- Easily serviced.
- Reverse Flow.
- High Flow: 1/4" – 30 SCFM§
  3/8" – 40 SCFM§



Port Size	NPT
Without Gauge	
1/4"	**05R113A***
3/8"	**05R213A***
With 160 PSI Gauge	
1/4"	**05R118A***
3/8"	**05R218A***

NOTE: 1.53 Dia. (39mm) hole required for panel mounting.

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

05R Regulator Dimensions		
A 2.00 (51)	**B** 2.06 (52)	**C** 3.16 (80)
D 1.28 (32)	**E** 4.44 (113)	

Inches (mm)

Ordering Information

05R	1	13	A	*	—	—	---

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

Pressure Range
Without Gauge
13 125 PSIG
With Gauge**
18 125 PSIG

** Includes 1-1/2" Dial Face Gauge

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

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

Preset / Pressure Limited
Blank None

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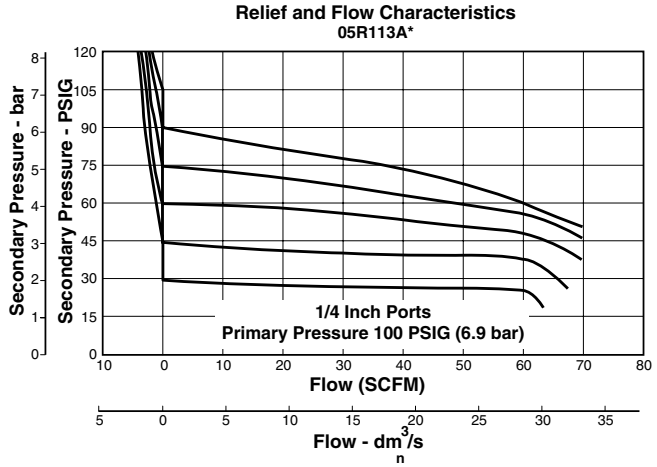
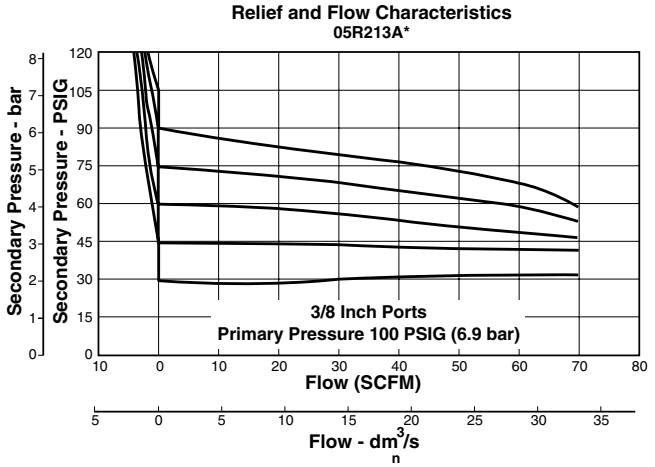
Technical Information





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.

05R Regulator Kits & Accessories

Bonnet Assembly Kit PS915P
Control Knob P04420
Gauges – 2" Dial Face
60 PSIG (0 to 4.1 bar) K4520N14060
160 PSIG (0 to 11.0 bar) K4520N14160

Mounting Bracket Kit PS963P
Panel Mount Nut – Metal PS964P
Springs – 2-125 PSIG Range P04425

Service Kit – Relieving PS908P

Specifications

Gauge Ports (2) ..... 1/4 Inch
Port Threads ..... 1/4, 3/8 Inch
Primary Pressure Rating –
Maximum Primary Pressure ..... 250 PSIG (17.2 bar) Max.
For Secondary Pressure Ranges see above charts.
Temperature Rating ..... 32°F to 175°F (0°C to 80°C)
Low Temperature ..... -4°F to 125°F (-20°C to 52°C)
Weight ..... 1.1 lb. (0.49 kg)

Materials of Construction

Adjusting Stem ..... Brass
Bonnet ..... Plastic
Body ..... Zinc
Collar, Knob ..... Plastic
Diaphragm ..... Nitrile
Poppet & Cap ..... Plastic
Seals ..... Nitrile
Springs – Poppet & Control ..... Steel

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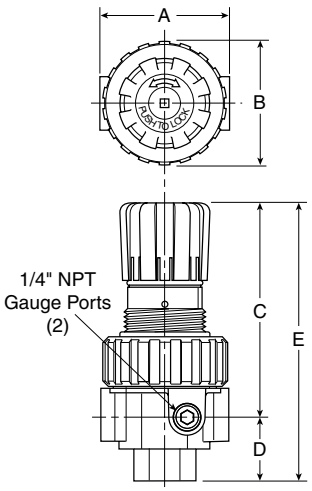
06R Regulators – Compact

Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Easily serviced.
- Removable non-rising knob for panel mounting and tamper resistance.
- High Flow: 1/4" – 53 SCFM§
  3/8" – 60 SCFM§
  1/2" – 75 SCFM§



Port Size	NPT
Without Gauge	
1/4"	**06R113A***
3/8"	**06R213A***
1/2"	**06R313A***

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

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

06R Regulator Dimensions		
A 2.81 (71)	**B** 2.74 (70)	**C** 4.69 (119)
D 1.39 (35)	**E** 6.08 (154)	

Inches (mm)

⚠ WARNING

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

Ordering Information

06R	1	13	A	*	—	—	---

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

Pressure Range
Without Gauge
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
Inlet Pressure is 100 PSIG. For other pressures, contact factory.

Preset / Pressure Limited
Blank None

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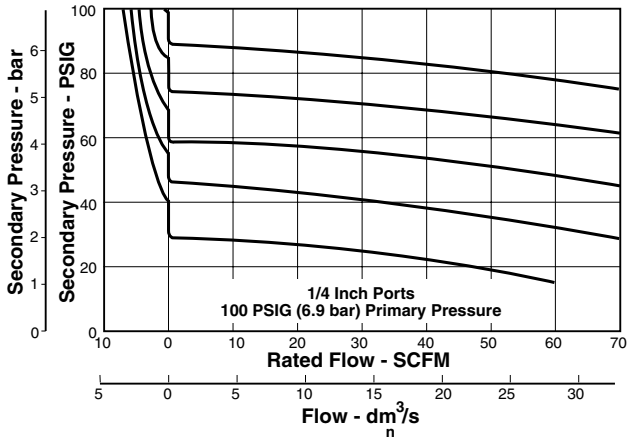
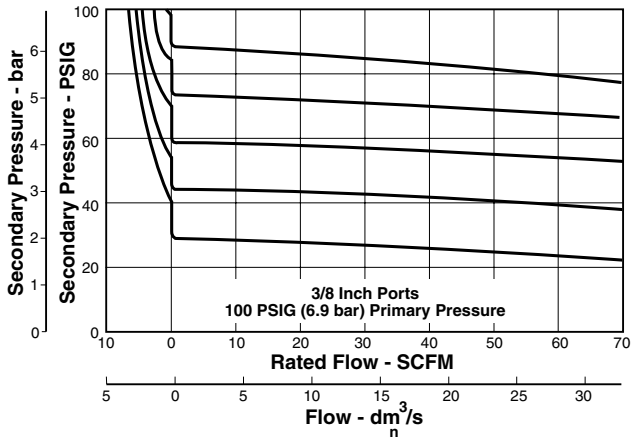
Technical Information

Relief And Flow Characteristics
06R113A*



Relief And Flow Characteristics
06R213A*

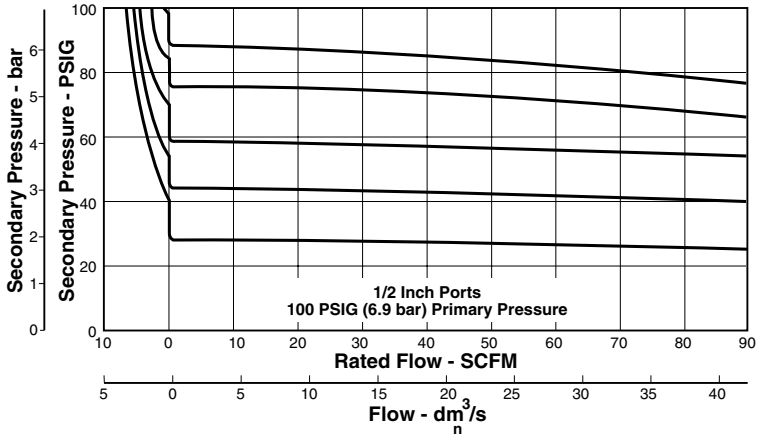


CAUTION:

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.

Relief And Flow Characteristics
06R313A*



06R Regulator Kits & Accessories

Bonnet Assembly Kit PS715P

Control Knob P04069B

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 – Plastic P04082
Metal P04079B

Service Kit – Relieving (Includes Poppet) PS708P

Springs – 2-125 PSIG Range P04063

Tamperproof Kit PS737P

Specifications

Gauge Ports (2) ..... 1/4 Inch
(Can be used as additional High Flow 1/4 Inch Outlet Ports)

Port Threads ..... 1/4, 3/8, 1/2 Inch

Primary Pressure Rating –
Maximum Primary Pressure ..... 250 PSIG (17.2 bar)

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

Temperature Rating ..... 32°F to 175°F (0°C to 80°C)

Weight ..... 1.6 lb. (0.7 kg)

Materials of Construction

Adjusting Stem ..... Steel

Body ..... Zinc

Bonnet, Piston Stem, Valve Poppet & Cap ..... Plastic

Collar, Knob ..... Plastic

Diaphragm ..... Nitrile

Seals ..... Nitrile

Springs – Poppet ..... Stainless
Control ..... Steel

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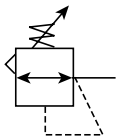
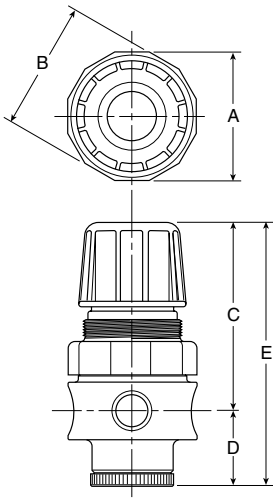
FR10 Regulator – Standard



Features

- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- Meets NACE specifications MR-01-75/ISO 15156.
- Low temperature version available.
- High Flow: 1/2" – 80 SCFM§



Port Size	NPT
1/2"	FR10-04CSS

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

FR10 Regulator Dimensions		
A 2.34 (60)	B 2.43 (62)	C 3.59 (91)
D 1.38 (35)	E 4.97 (126)	

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

FR10	-	04	C	SS

Series	Port Type	Port Size	Pressure Range	Material
FR10 Standard Knob	- NPT	04 1/2 Inch	C 0-125 PSIG (0-8.5 bar)	SS Stainless Steel

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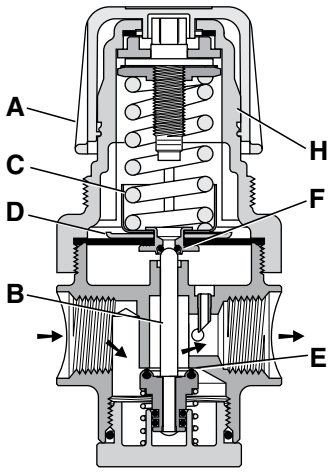
Operation



With the adjusting knob **(A)** turned fully counter-clockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly **(B)** is closed. Turning the adjusting knob clockwise applies a load to control spring **(C)**. This load causes the diaphragm **(D)** and the valve poppet assembly **(B)** to move downward allowing flow across the seat area **(E)** created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm **(D)** and offsets the load of spring **(C)**. As downstream pressure rises, poppet assembly **(B)** and diaphragm **(D)** move upward until the area **(E)** is closed and the load of the spring **(C)** and pressure under diaphragm **(D)** are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm **(D)**. The load of control spring **(C)** now causes the poppet assembly to move downward opening seat area **(E)** allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening **(E)**.

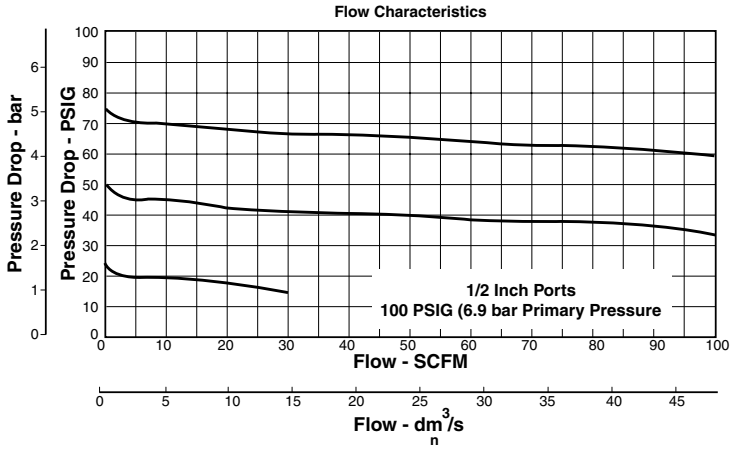
Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm **(D)** to move upward against control spring **(C)**, open vent hole **(F)**, and vent the excess pressure to atmosphere through the hole in the bonnet **(H)**. (This occurs in the relieving type regulator 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.



FR10 Regulator Kits & Accessories

FR10 Bonnet Kit (Knob Included) CKR10YSS

Gauge –
160 PSIG (0 to 1100 kPa), 2" Face..... K4520N14160SS

Panel Mount Bracket (Stainless) 161X57-SS

Panel Mount Nut –
Stainless R10X51SS
Plastic..... R10X51-P

Service Kit –
Relieving..... RKR10YSS

Springs –
0-125 PSIG Range SPR-389-1-SS

Specifications

Gauge Port .....1/4 Inch
Operation ..... Fluorocarbon Diaphragm
Port Threads ..... 1/2 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).
Weight ..... 1.79 lb. (0.81 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

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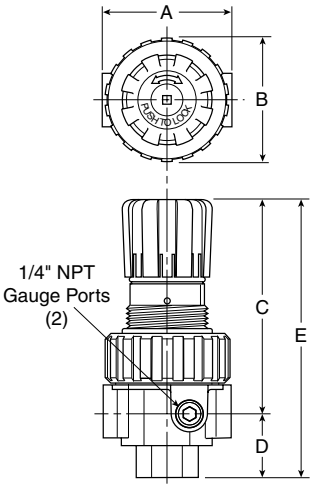
07R Regulators – Standard

Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Two high flow 1/4" gauge ports can be used as additional outlets.
- Easily serviced.
- Removable non-rising knob for panel mounting and tamper resistance.
- High Flow: 3/8" – 70 SCFM§
  1/2" – 90 SCFM§
  3/4" – 90 SCFM§



Port Size	NPT
Without Gauge	
3/8"	**07R213A***
1/2"	**07R313A***
3/4"	**07R413A***

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

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

07R Regulator Dimensions		
A 3.24 (82)	**B** 2.74 (70)	**C** 4.79 (122)
D 1.61 (41)	**E** 6.40 (163)	

Inches (mm)

⚠ WARNING

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

Ordering Information

07R	3	13	A	*	—	—	---

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

Pressure Range
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

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

Preset / Pressure Limited
Blank None

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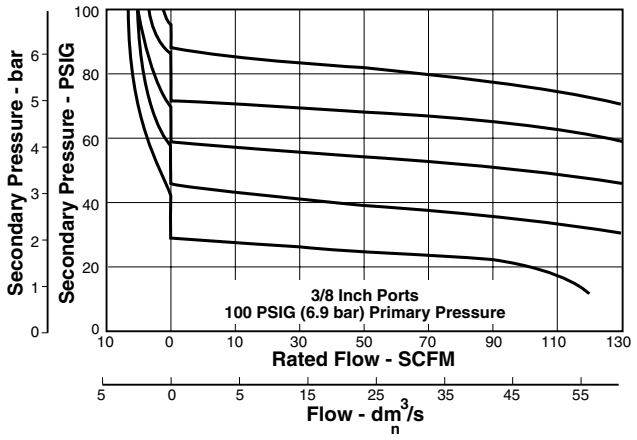
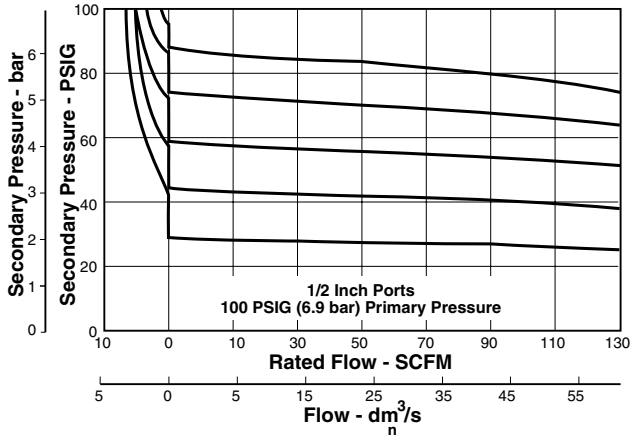
Technical Information

Relief And Flow Characteristics
07R213A*



Relief And Flow Characteristics
07R313A*

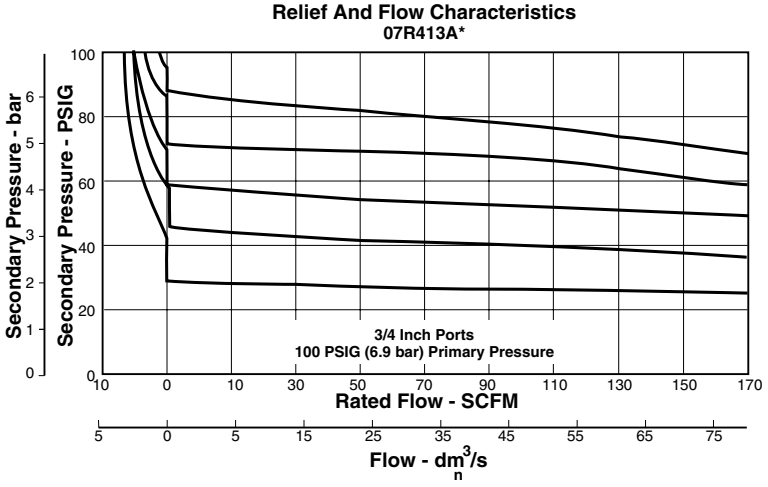


CAUTION:

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.

Relief And Flow Characteristics
07R413A*



07R Regulator Kits & Accessories

Bonnet Assembly Kit PS715P

Control Knob P04069B

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 – Plastic P04082
Metal P04079B

Service Kit – Relieving (Includes Poppet) PS808P

Springs – 2-125 PSIG Range P04063

Tamperproof Kit PS737P

Specifications

Gauge Ports (2) ..... 1/4 Inch
(Can be used as additional High Flow 1/4 Inch Outlet Ports)

Port Threads ..... 3/8, 1/2, 3/4 Inch

Primary Pressure Rating –
Maximum Primary Pressure ..... 250 PSIG (17.2 bar)

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

Temperature Rating ..... 32°F to 175°F (0°C to 80°C)

Weight ..... 2.5 lb. (1.1 kg)

Materials of Construction

Adjusting Stem ..... Steel

Body ..... Zinc

Bonnet, Piston Stem, Valve Poppet & Cap ..... Plastic

Collar, Knob ..... Plastic

Diaphragm ..... Nitrile

Seals ..... Nitrile

Springs – Poppet ..... Stainless
Control ..... Steel

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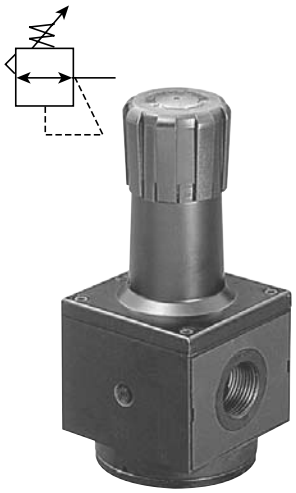
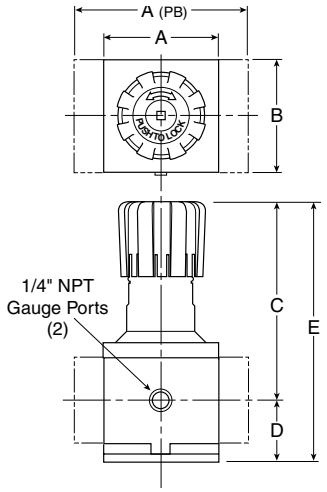
P3NR Regulators – Hi-Flow



Features

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies.
- Self relieving feature plus balanced poppet provides quick response and accurate pressure regulation.
- Solid control piston for extended life.
- High Flow: 3/4" – 200 SCFM§
  1" – 300 SCFM§
  1½" – 300 SCFM§



P3NR Regulator Dimensions		
A 3.62 (92)	**A(PB)** 5.91 (150)	**B** 3.62 (92)
C 6.38 (162)	**D** 2.08 (53)	**E** 8.46 (215)

Inches (mm)

Port Size	NPT
	Without Gauge
3/4"	**P3NRA96BNN**
1"	**P3NRA98BNN**
1½	**P3NRA9PBNN**

NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

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

⚠ WARNING

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

Ordering Information

P3N	R	A	9	8	B	N	N

Design Level

Port Type
9 NPT Female

Note: 3/4 & 1 inch meet ISO 1179-1 Standard.

Port Size
6 3/4" (w/o Port Blocks)
8 1" (w/o Port Blocks)
P 1-1/2" Port Blocks (w/ 1" Ported Body)

Relief
B Relieving

Adjustment
N Non-Rising Knob

Pressure Gauge
Without Gauge
N 125 PSI (0 to 8 bar)

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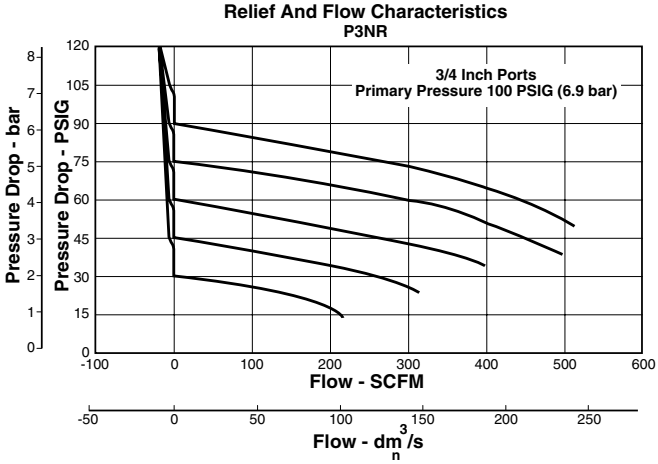
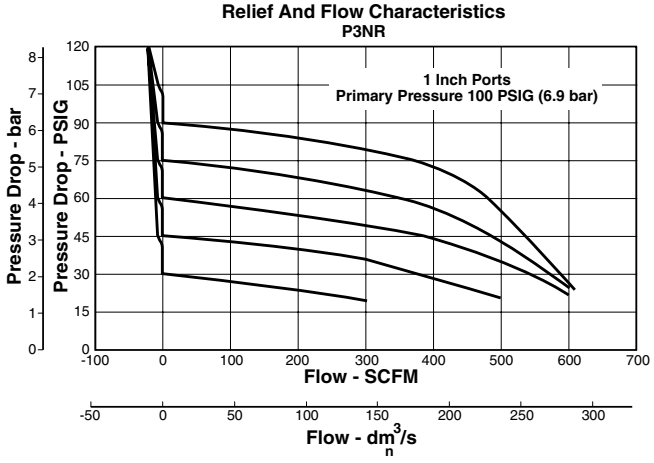
Technical Information

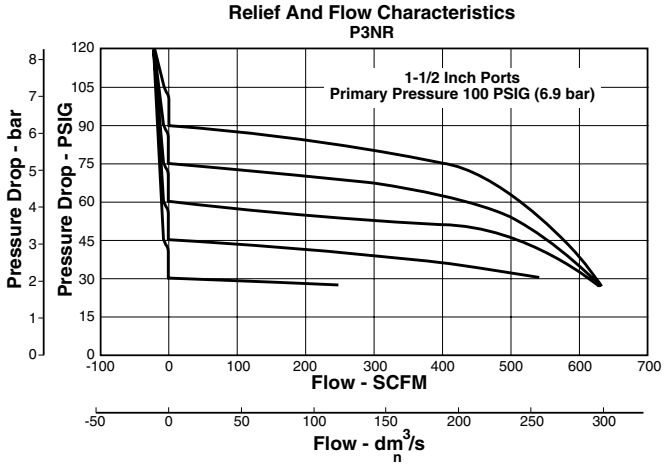




CAUTION:

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.



P3NR Regulator Kits & Accessories

Control Knob P3NKA00PN
Gauges – 60 PSIG (0 to 4.1 bar) K4520N14060
160 PSIG (0 to 11.0 bar) K4520N14160

Mounting Bracket Kit P3NKA00MW

Service Kit – Relieving P3NKA00RR

Springs – 2-125 PSIG Range C10A1308

Specifications

Gauge Ports (2) ..... 1/4 Inch
(Can be used as additional High Flow 1/4 Inch Outlet Ports)
Port Threads ..... 3/4, 1, 1-1/2 Inch

Primary Pressure Rating –
Maximum Primary Pressure ..... 250 PSIG (17.2 bar)
Secondary Pressure Range –
Standard Pressure ..... 2 to 125 PSIG (0 to 8.6 bar)

Temperature Rating ..... 32°F to 175°F (0°C to 80°C)
Weight – 3/4" ..... 4.2 lb. (1.9 kg)
1" ..... 4.2 lb. (1.9 kg)
1½" † ..... 5.3 lb. (2.4 kg)

Materials of Construction

Adjusting Stem ..... Steel
Body ..... Aluminum
Bonnet ..... Aluminum
Knob ..... Plastic
Piston ..... Plastic
Poppet Assembly ..... Brass
Seals ..... Nitrile
Springs – Poppet & Control ..... Steel

† 1" Port Body with 1½" Port Block.

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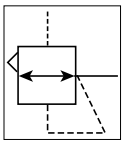
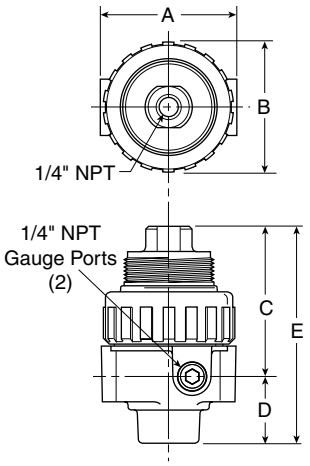
11R Pilot Controlled Regulator – Compact



Features

- Balanced poppet provides quick response and accurate pressure regulation.
- Pilot controlled regulators can be mounted “out of reach” with pilot regulator installed in a convenient location.
- Solid control piston for extended life.
- Two full flow 1/4" gauge ports can be used as additional outlets.
- Pilot port 1/4 Inch.
- High Flow: 1/4" – 85 SCFM§
  3/8" – 95 SCFM§
  1/2" – 95 SCFM§



Port Size	NPT
	Without Gauge
1/4"	**11R115P***
3/8"	**11R215P***
1/2"	**11R315P***

NOTE: 2.00 Dia. (50,8mm) hole required for panel mounting.

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

11R Pilot Regulator Dimensions		
A 2.81 (71)	**B** 2.74 (70)	**C** 3.05 (77)
D 1.39 (35)	**E** 4.44 (113)	

Inches (mm)

⚠ WARNING

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

Ordering Information

11R	2	15	P	*	–

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

Relief / Gauge Options
Without Gauge
15 Relieving Piston

Adjustment
P Pilot Operated

Engineering Level
* Will be Entered at Factory

Port Type
Blank NPT

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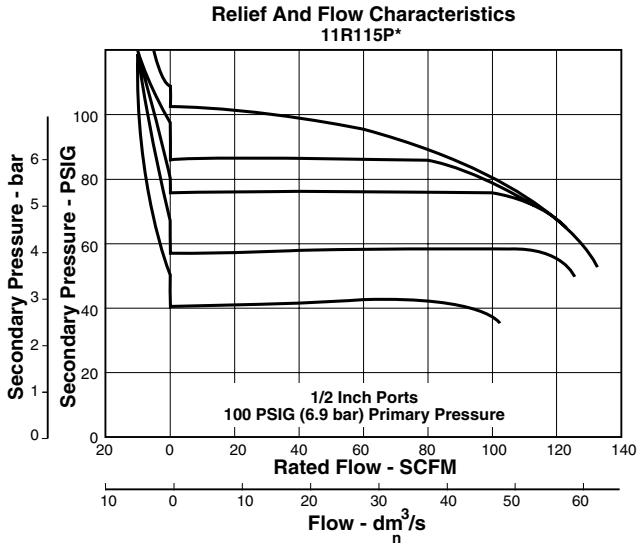
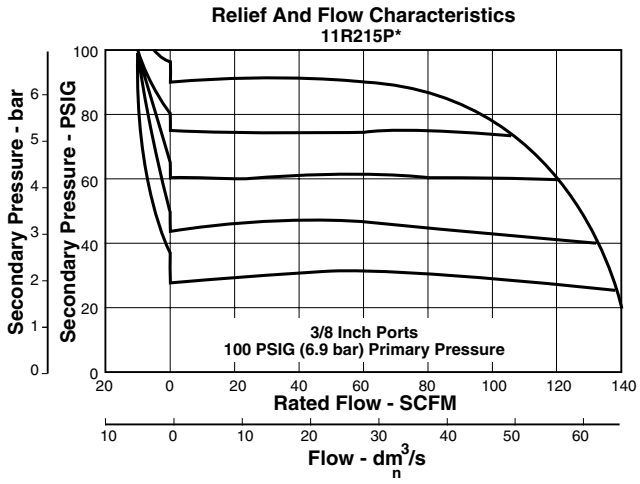
Technical Information





11R Pilot Regulator Kits & Accessories

Body Service Kits – Seat Insert Kit PS713P

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 – Plastic P04082
Metal P04079B

Pilot Conversion Kit – Relieving PS745P

Service Kits – Relieving PS749P

Specifications

Gauge Ports (2) ..... 1/4 Inch
(Can be used as additional Full Flow 1/4 Inch Outlet Ports)

Port Threads ..... 1/4, 3/8, 1/2 Inch

Pressure & Temperature Rating –..... 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)

Weight..... 1.3 lb. (0.58 kg.)

Materials of Construction

Body & Pilot Cap ..... Zinc

Piston, Valve Poppet, & Collar..... Plastic

Seals ..... Nitrile

Springs ..... Steel

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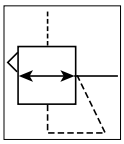
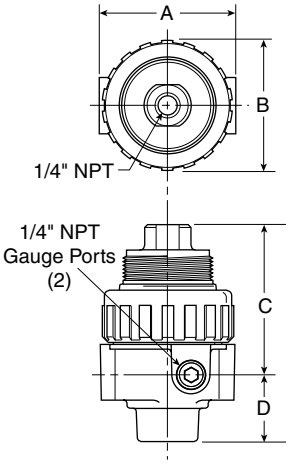
12R Pilot Controlled Regulator – Standard



Features

- Balanced poppet provides quick response and accurate pressure regulation.
- Pilot controlled regulators can be mounted “out of reach” with pilot regulator installed in a convenient location.
- Solid control piston for extended life.
- Two full flow 1/4" gauge ports can be used as additional outlets.
- Pilot port 1/4 Inch.
- High Flow: 3/8" – 120 SCFM§
  1/2" – 140 SCFM§
  3/4" – 140 SCFM§



Port Size	NPT
	Without Gauge
3/8"	**12R215P***
1/2"	**12R315P***
3/4"	**12R415P***

NOTE: 2.00 Dia. (50,8mm) hole required for panel mounting.

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

12R Pilot Regulator Dimensions		
A 3.24 (82)	**B** 2.74 (70)	**C** 3.15 (80)
D 1.61 (41)	**E** 4.76 (121)	

Inches (mm)

⚠ WARNING

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

Ordering Information

12R	2	15	P	*	—

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

Relief / Gauge Options
Without Gauge
15 Relieving Piston

Adjustment
P Pilot Operated

Engineering Level
* Will be Entered at Factory

Port Type
Blank NPT

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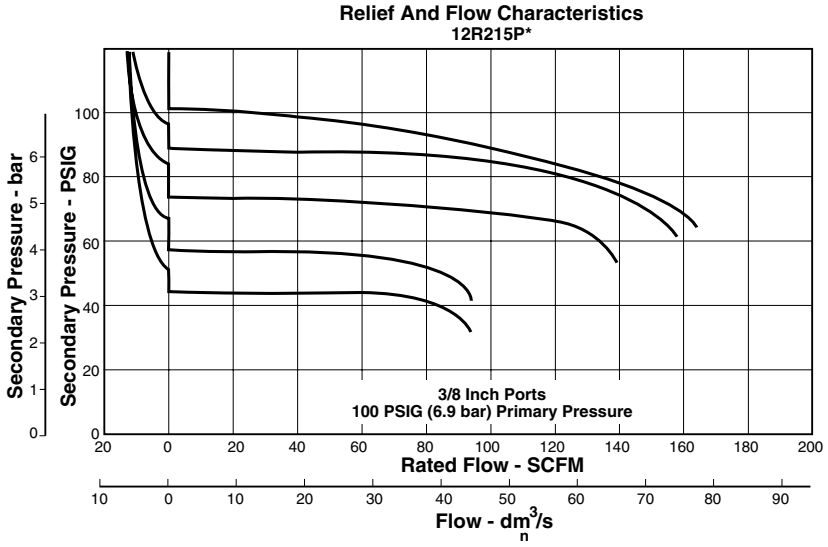
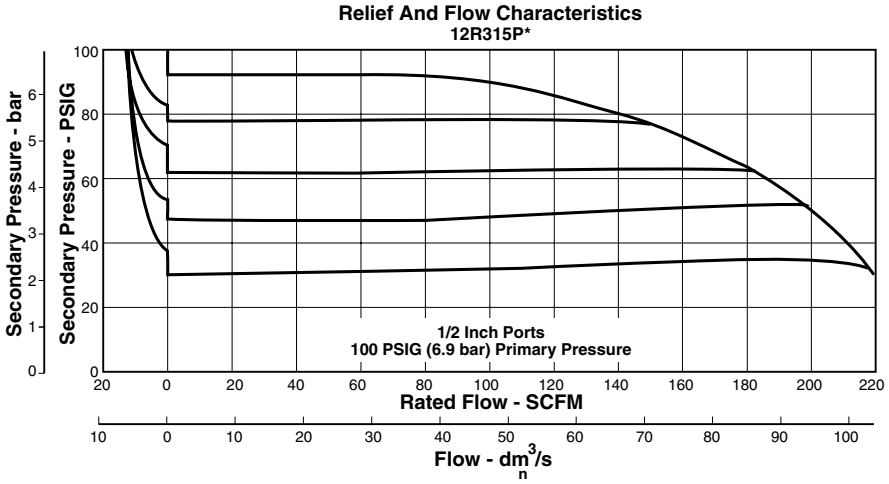
Technical Information





12R Pilot Regulator Kits & Accessories

Body Service Kits – Seat Insert Kit PS813P

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 – Plastic P04082
Metal P04079B

Pilot Conversion Kit – Relieving PS745P

Service Kits – Relieving PS849P

Specifications

Gauge Ports (2) ..... 1/4 Inch
(Can be used as additional Full Flow 1/4 Inch Outlet Ports)

Port Threads .....3/8, 1/2, 3/4 Inch

Pressure & Temperature Rating –.....0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)

Weight .....2.0 lb. (0.91 kg)

Materials of Construction

Body & Pilot Cap ..... Zinc

Piston, Valve Poppet, & Collar..... Plastic

Seals .....Nitrile

Springs .....Steel

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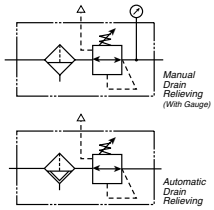
Filter / Regulators



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

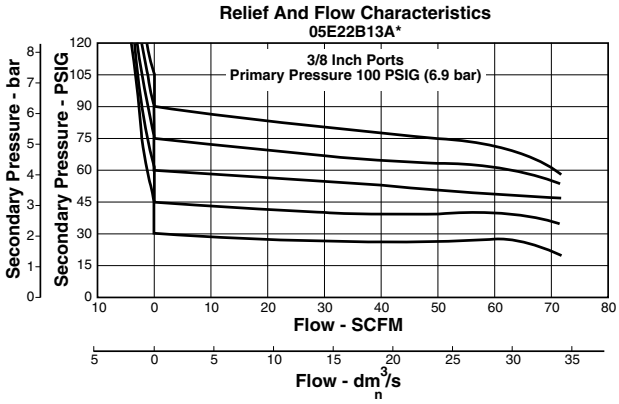
Integral Filter / Regulators are an excellent choice where accurate pressure regulation and high moisture removal efficiency are required in a space saving package.

- 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.

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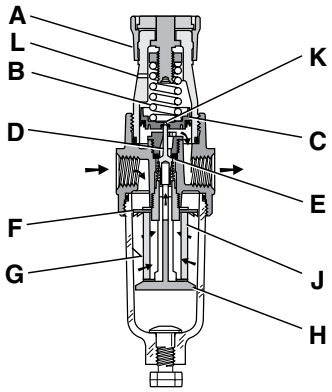
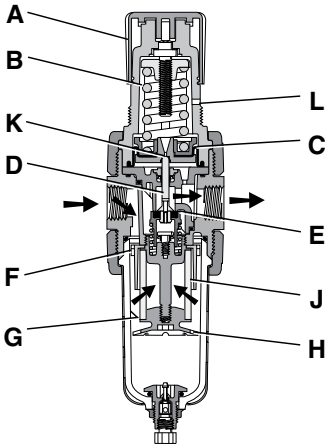
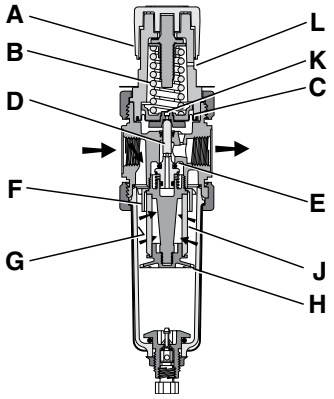


14E

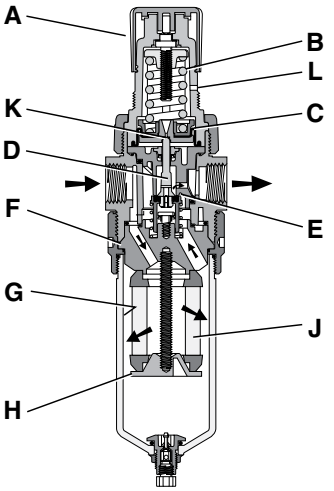


06E / 07E

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

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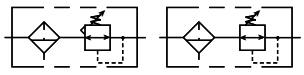
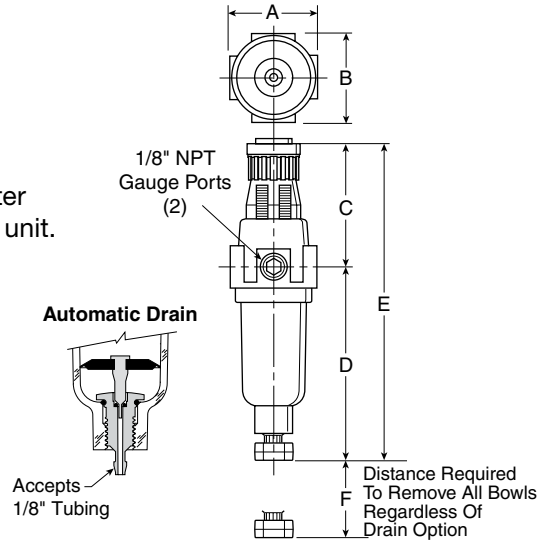
14E Filter / Regulator – Miniature



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

Elements
B 5 Micron

Relief
F Relieving

Port Type
Blank NPT

Preset / Pressure Limited
Blank None

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

Pressure Range
13 125 PSIG

Engineering Level
* Will be Entered at Factory

Options
Blank No Options

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

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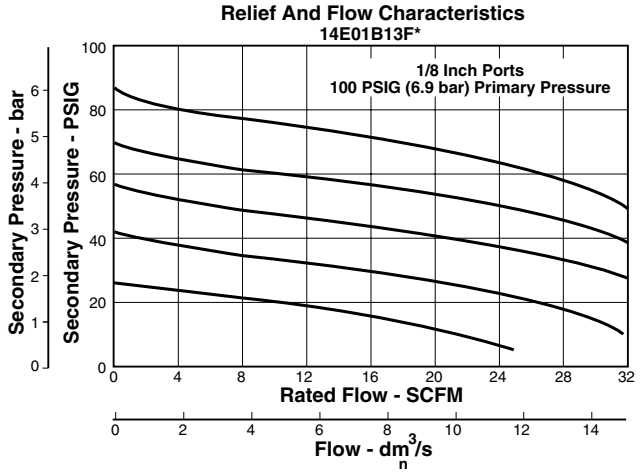
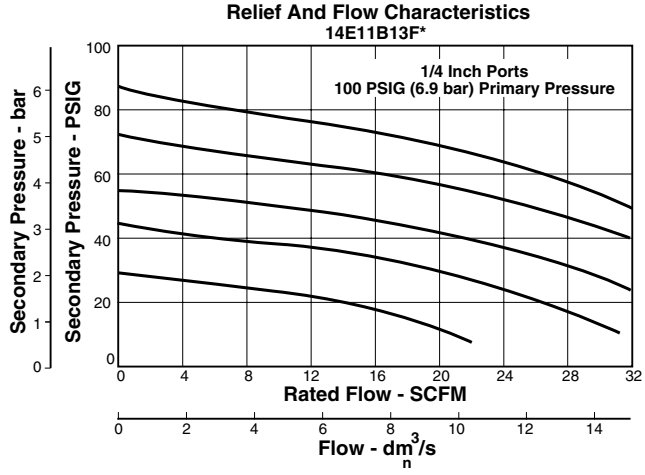
Technical Information





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

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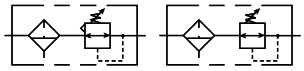
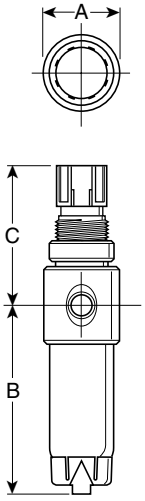
F10E Filter / Regulator – Miniature



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

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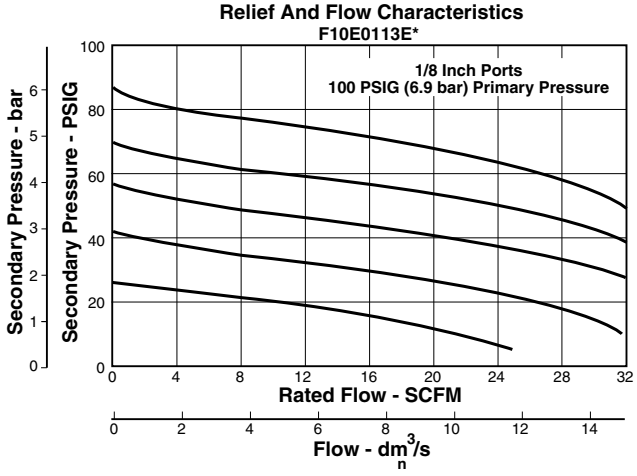
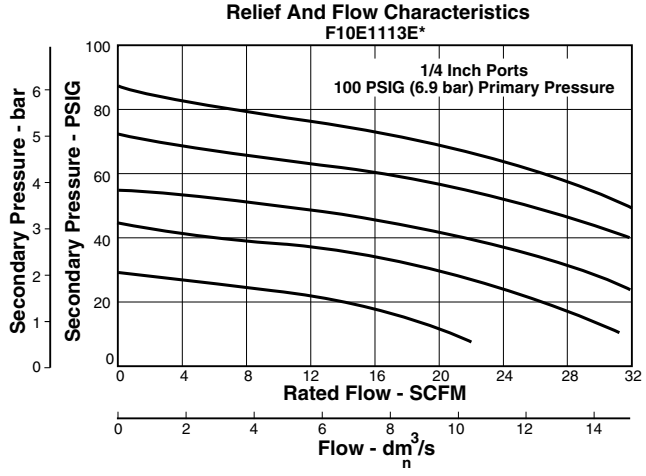
Technical Information





CAUTION:

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

⚠ 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

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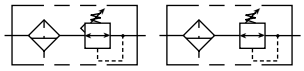
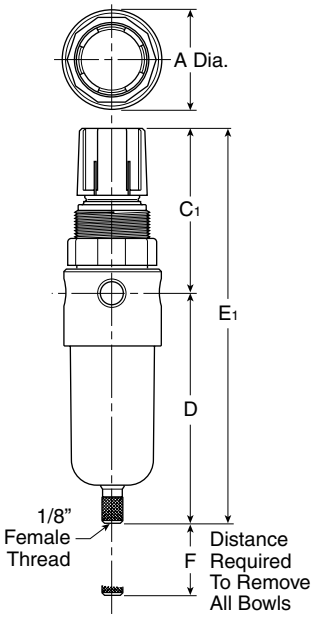
FB548 Filter / Regulator – Miniature



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

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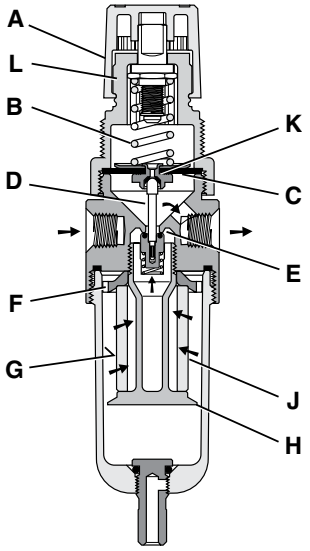
Operation



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:

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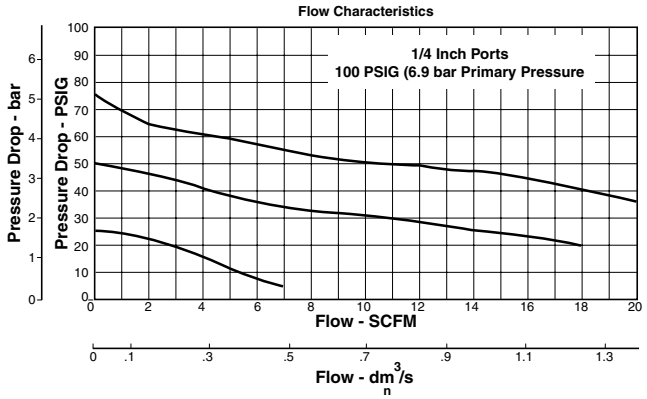
For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



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

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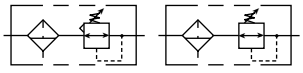
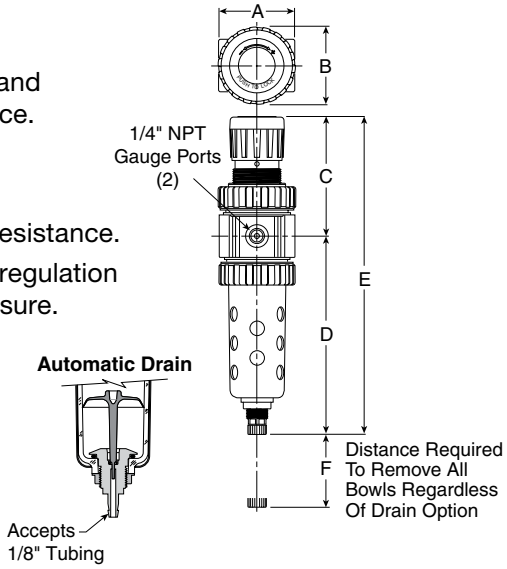
05E Filter / Regulator – Economy



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

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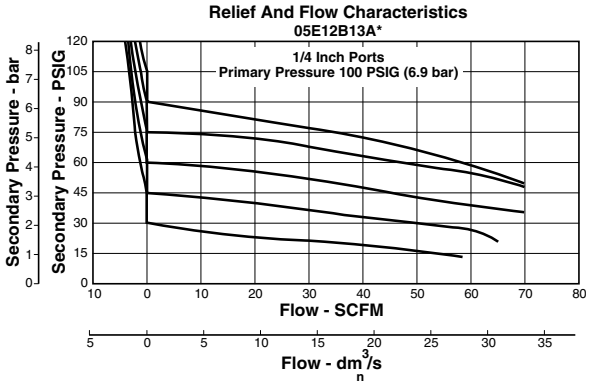
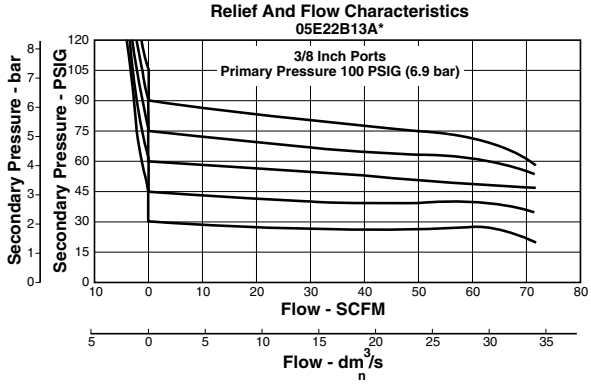
Technical Information





CAUTION:

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

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

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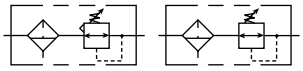
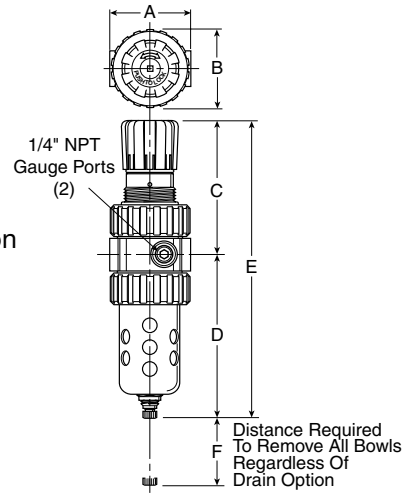
06E Filter / Regulator – Compact



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

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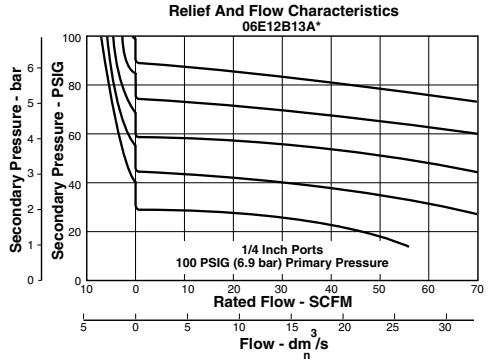
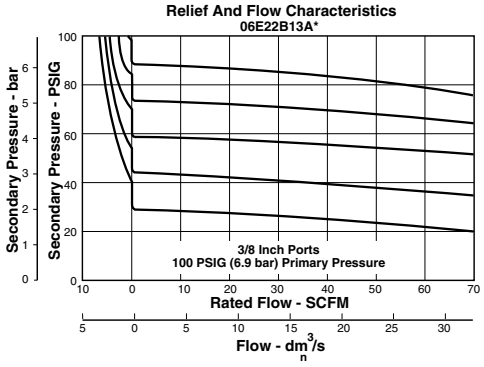
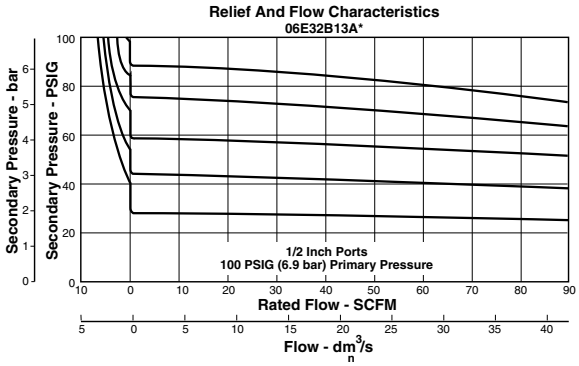
Technical Information







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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

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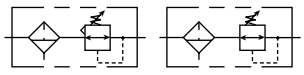
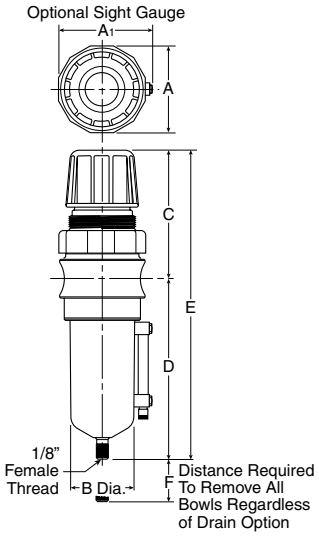
FB11 Filter / Regulator – Standard



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

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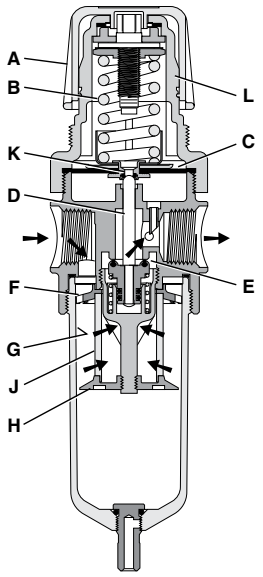
Operation



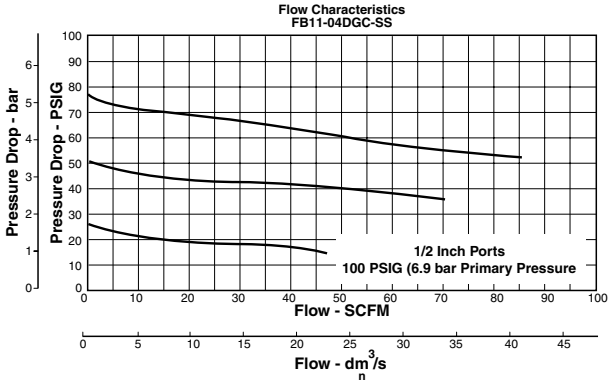
Turning the adjusting knob clockwise applies a load to control spring **(B)** which forces diaphragm **(C)** and valve poppet assembly **(D)** to move downward allowing filtered air to flow through the seat area **(E)** created between the poppet assembly and the seat. **"First stage filtration".** Air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

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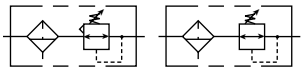
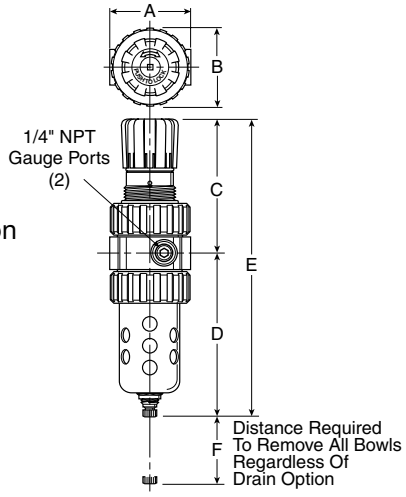
07E Filter / Regulator – Standard



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
2 Metal Bowl Guard / Twist Drain
6 Metal Bowl Guard / Auto Float Drain

Metal Bowl
4 Sight Gauge / Twist 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

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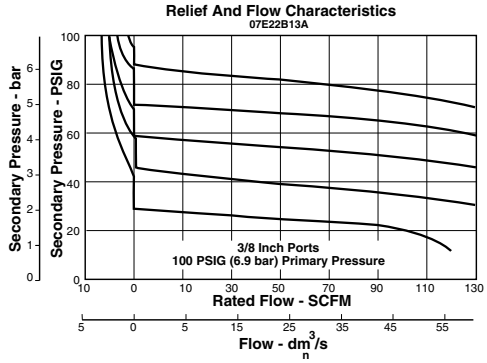
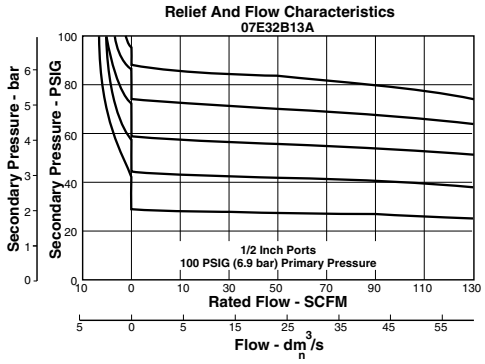
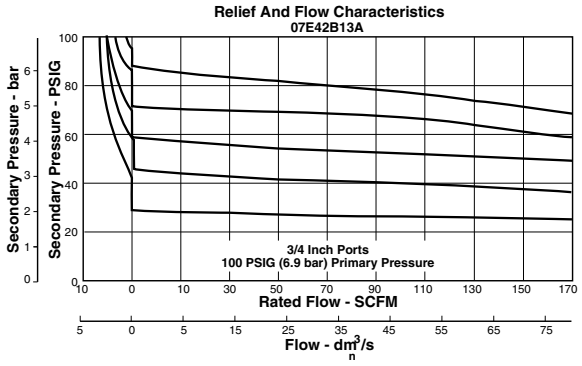
Technical Information







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.

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

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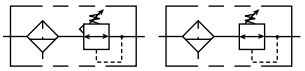
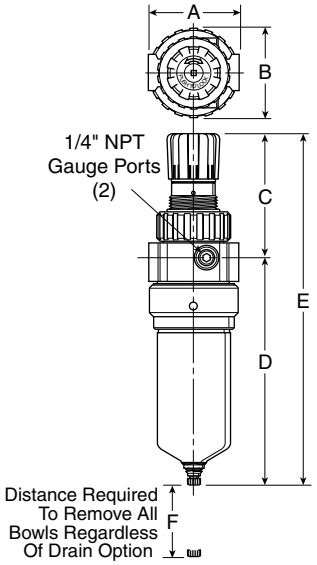
F12E Filter / Regulator – Coalescing



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

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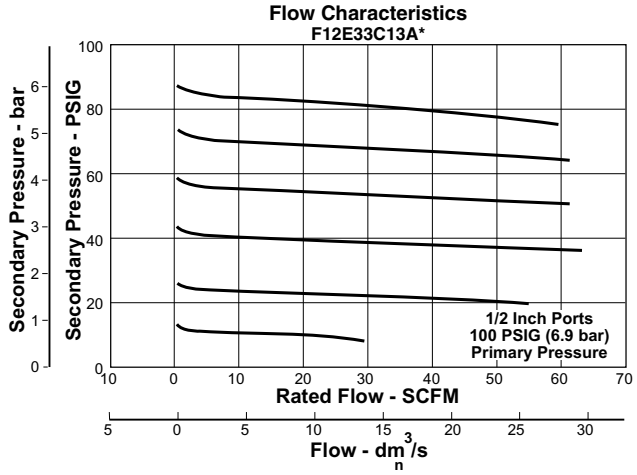
Technical Information



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

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Oxford, MI
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Micro-Mist Lubricators

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

Micro-Mist Air Lubricators are designed to provide optimum and uniform lubrication with fine micro-mist particles of 2 micron or smaller, to pneumatic components even through complex piping arrangements.

- Economy 15L Series, 1/4 and 3/8 Inch
- Compact 16L Series, 1/4, 3/8 and 1/2 Inch
- Standard 17L Series, 3/8, 1/2 and 3/4 Inch

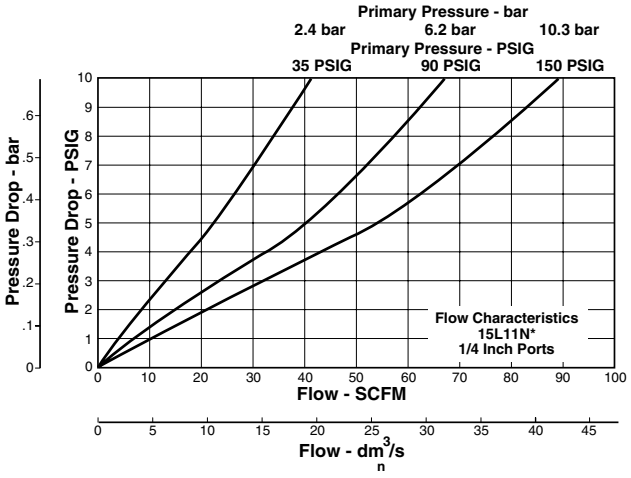
Lubricator Selection

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

F442 Oil

Quantity	Part Numbers
1 Quart	F442001P
1 Gallon	F442002P
12 Quart Case	F442003P
4 Gallon Case	F442005P

Reading Flow Charts to Size Micro-Mist Lubricators



Once the required flow is determined for a pneumatic application the lubricator can be selected by using the flow chart. To read the lubricator flow chart, first determine the inlet pressure that will be used. Find the appropriate pressure curve on the graph. Each graph will contain three pressure curves. If the required inlet pressure is not on the graph, interpolate a similar curve for the required pressure. Next, determine the acceptable pressure drop across the lubricator and locate it on the vertical axis. Find the intersection point of the acceptable pressure drop and the inlet pressure curve. At this point follow a vertical path downward to view the flow in SCFM. If the flow is too low, select a larger port size or body size to give the required flow. If the flow is higher than necessary, select a smaller port size or body size to give the required flow.

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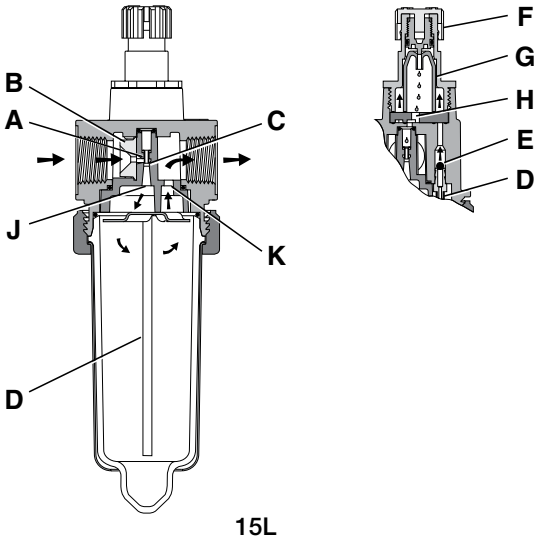
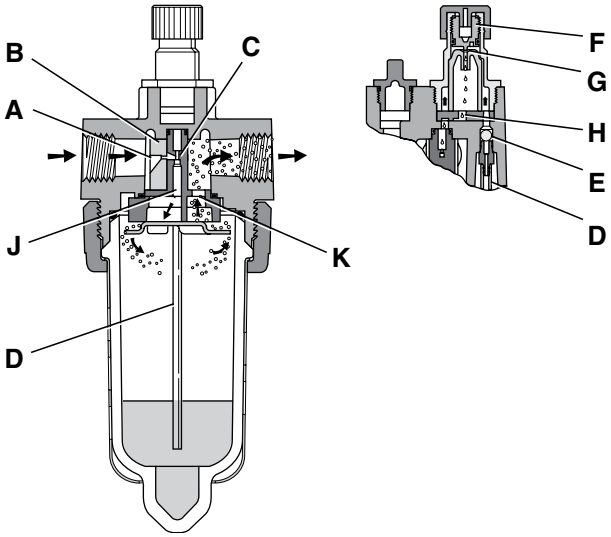


15L



16L / 17L

Air flowing through the unit goes through two paths. At low air flow rates, the majority of the air flows through venturi section **(A)**. The rest of the air slightly deflects and flows by the flapper **(B)**. The velocity of the air flowing through venturi section **(A)** creates a pressure drop at throat section **(C)**. This lower pressure allows oil to be forced from the reservoir through the pickup tube **(D)** past the check ball **(E)**, to the dome assembly where the rate of oil flow is controlled by metering screw **(F)**. Rotation of the metering screw **(F)** in the counterclockwise direction increases the oil flow rate; in the clockwise direction decreases the oil flow rate.

Oil then flows through the clearance between the inner and outer sight domes **(G)** where drops are formed and drip into the nozzle tube **(H)**. Here it is then broken into fine particles as it expands into the low pressure venturi. From there, the atomized oil flows through the precision orifice **(J)**. This action causes the larger particles of oil to fall back into the reservoir where it can recirculate through the system. The remaining mist of fine particles (5 micron or smaller – about 3% of which passed through the sight dome) is then carried through opening **(K)** where it joins and mixes with air that bypassed the flapper **(B)**. As air flow rate increases, the flapper **(B)** deflects, allowing most of the inlet air to bypass the venturi section **(A)**. However, a proportion of the inlet air passes through the venturi, assuring that oil delivery increases linearly with increased air flow rate. This proportioning method is advantageous at low inlet flows because the venturi design remains efficient.

The check ball **(E)** prevents reverse oil flow down the pickup tube when air flow stops. Thus, oil delivery can resume immediately when air flow restarts. **Micro-Mist Lubricators can only be filled when the air supply is shut off.**

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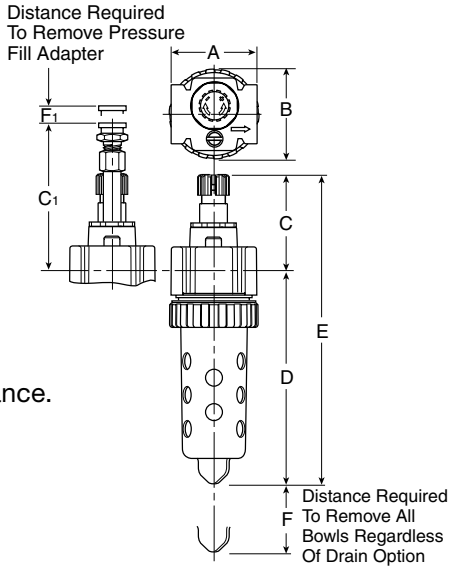
15L Micro-Mist Lubricators – Economy

Features

- Proportional oil delivery over a wide range of air flows.
- Generates oil particles of 5 micron or smaller downstream to lubricate systems having complex piping arrangements.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- Removable drip control knob for tamper resistance.
- High Flow: 1/4" – 40 SCFM§
  3/8" – 40 SCFM§



Port Size	NPT	
	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard		
1/4"	—	**15L12N***
3/8"	—	**15L22N***
Metal Bowl / Sight Gauge		
1/4"	**15L14N***	—
3/8"	**15L24N***	—

‡ For polycarbonate bowl and sight dome, see Caution on page 2.
§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

15L Lubricator Dimensions			
A 2.00 (51)	**B** 2.06 (52)	**C** 2.26 (57)	**C1** 3.35 (85)
D 5.12 (130)	**D†** 5.35 (136)	**E** 7.38 (187)	**E†** 7.61 (193)
F 1.77 (45)	**F†** .39 (10)		

Inches (mm)
† With Twist Drain.

Ordering Information

15L	1	2	N	*	—

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
2 Metal Bowl Guard / No Drain	4 Sight Gauge / Twist Drain

Fill Options
N No Fill Plug

Engineering Level
* Will be Entered at Factory

Port Type
Blank NPT

Note: 1/4 & 3/8 inch meet ISO 1179-1 Standard.

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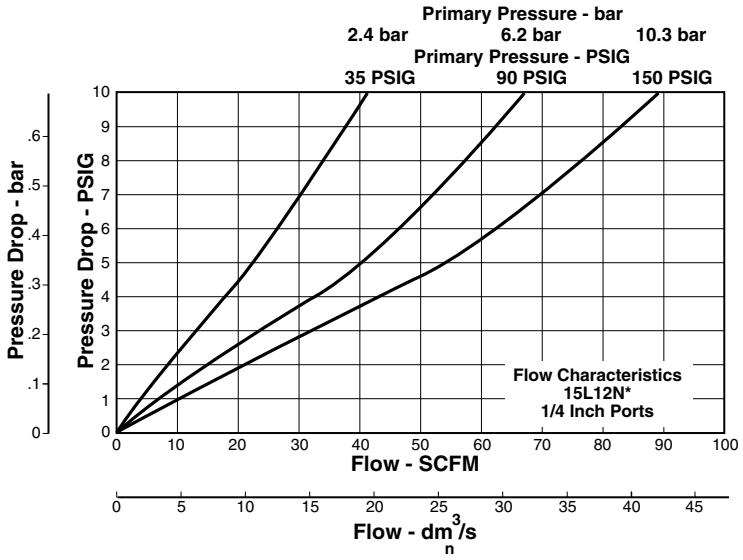
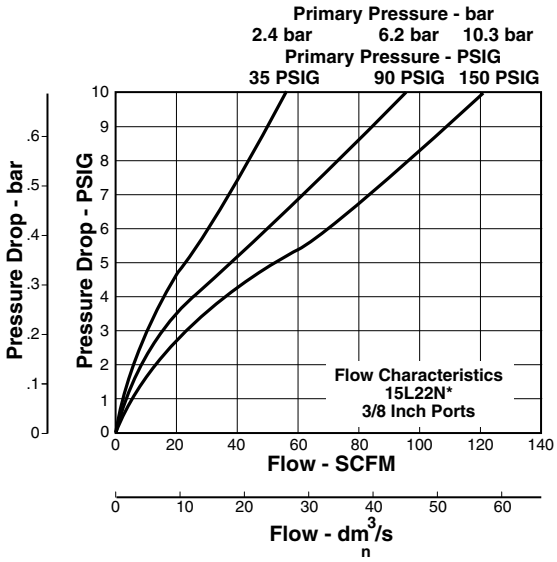
Technical Information





15L Micro-Mist Lubricator Kits & Accessories

Adjustment Knob P04121
Bowl Guard Kit PS905P
Bowl Kits –
Poly Bowl – No Drain PS946P
Metal Bowl –Sight Gauge / Twist Drain PS929P
Drain Kit– Twist Drain PS512P
Mounting Bracket Kit PS943P
Oil – 1 Gal. F442002P
12 Quart Case F442003P
4 Gallon Case F442005P
Pressure Fill Adapter Kit PS916P
Service Kit PS948P
Sight Dome Kit PS740P
Sight Gauge Kit PS914P

Specifications

Bowl Capacity ..... 2.0 Ounces
Minimum Flow for Lubrication ..... 2 SCFM at 100 PSIG
Port Threads ..... 1/4, 3/8 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)
Suggested Lubricant ..... F442 Oil
Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F
(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)
Weight ..... 1 lb. (0.45 kg)

Materials of Construction

Body ..... Zinc
Bowls – Transparent ..... Polycarbonate
Metal (With Sight Gauge) ..... Zinc
Bowl Guard ..... Steel
Collar ..... Plastic
Drains – Twist – Body & Nut ..... Plastic
Injector Meter Block & Base Assembly ..... Plastic
Seals ..... Nitrile
Sight Dome ..... Polycarbonate
Sight Gauge ..... Polyamide (Nylon)

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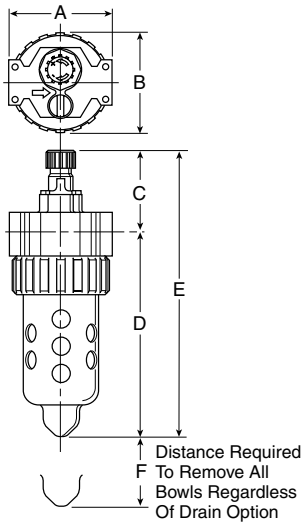
16L Micro-Mist Lubricators – Compact

Features

- Proportional oil delivery over a wide range of air flows.
- Generates oil particles of 5 micron or smaller downstream to lubricate systems having complex piping arrangements.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- Yellow fill cap identifies Micro-Mist Lubricator.
- High Flow: 1/4" – 40 SCFM §
  3/8" – 60 SCFM §
  1/2" – 90 SCFM §



Port Size	NPT	
	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard		
1/4"	—	**16L12B***
3/8"	—	**16L22B***
1/2"	—	**16L32B***
Metal Bowl / Sight Gauge		
1/4"	**16L14B***	—
3/8"	**16L24B***	—
1/2"	**16L34B***	—

‡ For polycarbonate bowl and sight dome, see Caution on page 2.
§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

16L Lubricator Dimensions		
A 2.81 (71)	**B** 2.74 (70)	**C** 2.24 (57)
D 5.58 (142)	**D†** 5.69 (145)	**E** 7.82 (199)
E† 7.93 (201)	**F** 2.25 (57)	

Inches (mm)
†With Twist Drain.

Ordering Information

16L	1	2	B	*	—

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

Bowl Options	
Polycarbonate Bowl	Metal Bowl
2 Metal Bowl Guard / No Drain	4 Sight Gauge / Twist Drain

Options
B With Fill Plug

Engineering Level
* Will be Entered at Factory

Port Type
Blank NPT

Note: 1/4 & 3/8 inch meet ISO 1179-1 Standard.

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Oxford, MI
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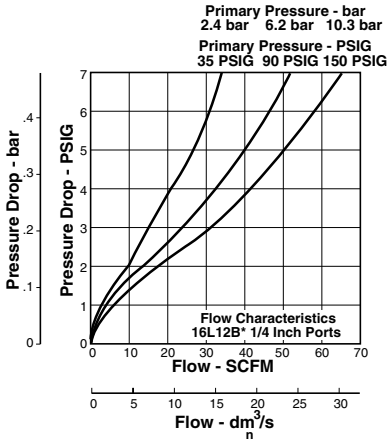
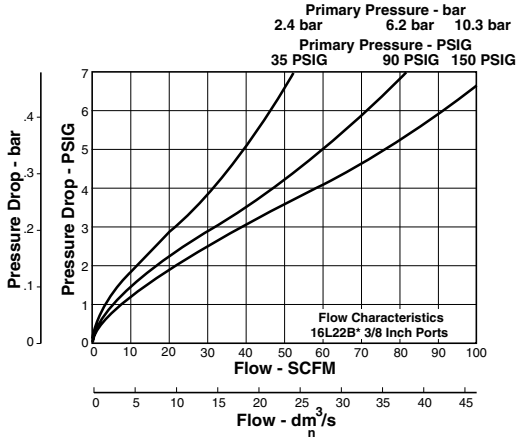
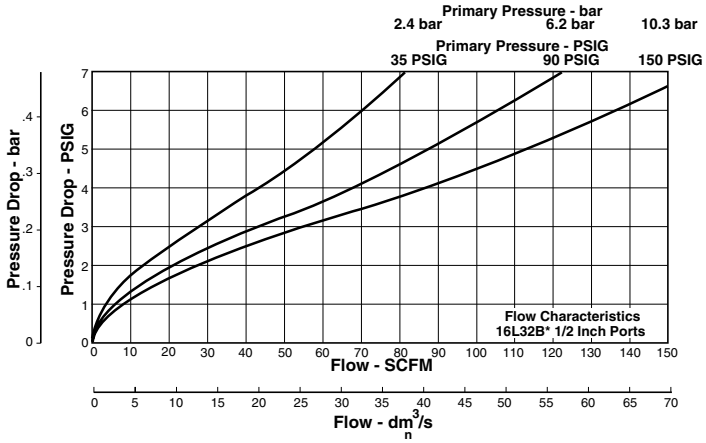
Technical Information







16L Micro-Mist Lubricator Kits & Accessories

Adjustment Knob P04121
Bowl Guard Kit PS705P
Bowl Kits –
Poly Bowl – No Drain PS746P
Metal Bowl – Sight Gauge / Twist Drain PS729P

Drain Kit – Twist Drain PS512P
Fill Cap Kit PS742P
Lubricator Service Kit PS748P
Mounting Bracket Kit PS743P
Oil – 1 Gal. F442002P
12 Quart Case F442003P
4 Gallon Case F442005P
Pressure Fill Adapter Kit PS716P
Sight Dome / Fill Cap Kit PS739P
Sight Dome Kit PS740P
Nylon Sight Dome Kit PS740N

Specifications

Bowl Capacity ..... 2.60 Ounces
Minimum Flow for Lubrication ..... 1 SCFM At 100 PSIG
Port Threads ..... 1/4, 3/8, 1/2 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)

Suggested Lubricant ..... F442 Oil
Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)
Weight ..... 1.2 lb. (.5 kg)

Materials of Construction

Body ..... Zinc
Bowls – Transparent ..... Polycarbonate
Metal (With Sight Gauge) ..... Zinc
Bowl Guard ..... Steel
Collar ..... Plastic
Drain – Twist – Body & Nut ..... Plastic
Injector Meter Block & Base Assembly ..... Plastic
Seals ..... Nitrile
Sight Dome ..... Polycarbonate
Sight Gauge ..... Polyamide (Nylon)

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Finite Filter Operation
Oxford, MI
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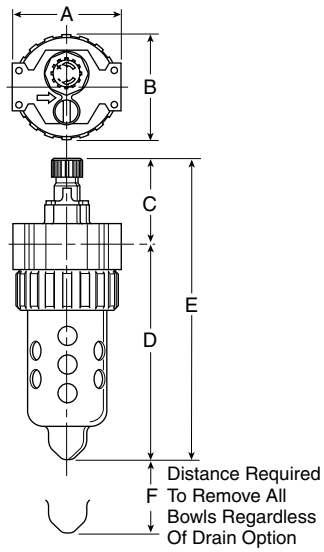
17L Micro-Mist Lubricators – Standard

Features

- Proportional oil delivery over a wide range of air flows.
- Generates oil particles of 5 micron or smaller downstream to lubricate systems having complex piping arrangements.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- Yellow fill cap identifies Micro-Mist Lubricator.
- High Flow: 3/8" – 60 SCFM§
  1/2" – 90 SCFM§
  3/4" – 90 SCFM§



Port Size	NPT	
	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard		
3/8"	—	**17L22B***
1/2"	—	**17L32B***
3/4"	—	**17L42B***
Metal Bowl / Sight Gauge		
3/8"	**17L24B***	—
1/2"	**17L34B***	—
3/4"	**17L44B***	—

‡ For polycarbonate bowl and sight dome, see Caution on page 2.
§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

17L Lubricator Dimensions		
A 3.24 (82)	**B** 3.25 (83)	**C** 2.41 (61)
D 6.86 (174)	**D†** 6.95 (177)	**E** 9.09 (231)
E† 9.35 (237)	**F** 2.75 (70)	

Inches (mm)
† With Twist Drain.

Ordering Information

17L	2	2	B	*	—

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

Bowl Options	
Polycarbonate Bowl	Metal Bowl
2 Metal Bowl Guard / No Drain	4 Sight Gauge / Twist Drain

Options
B With Fill Plug

Engineering Level
* Will be Entered at Factory

Port Type
Blank NPT

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

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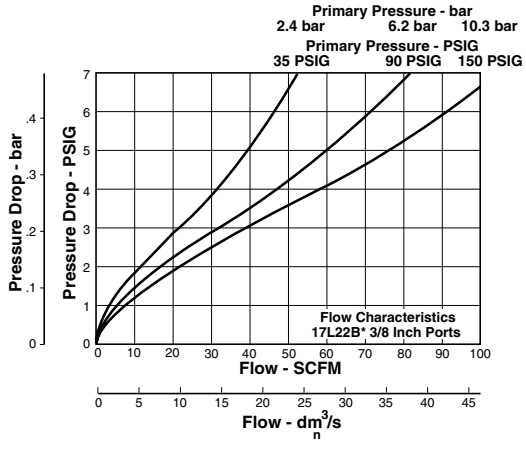
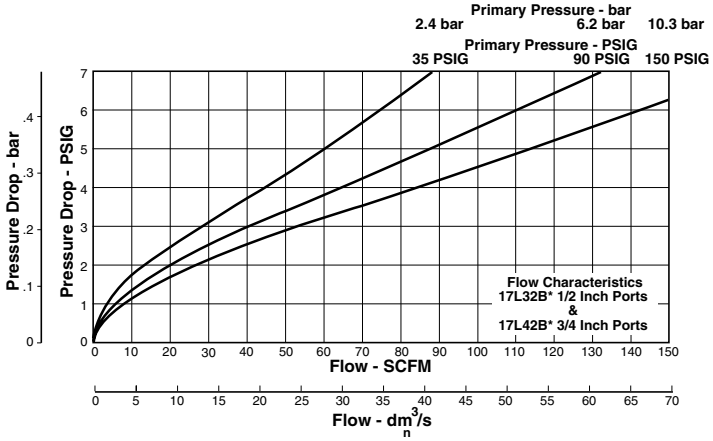
Technical Information





17L Micro-Mist Lubricator Kits & Accessories

Adjustment Knob P04121

Bowl Guard Kit PS805P

Bowl Kits –

Poly Bowl – No Drain PS846P

Metal Bowl – Sight Gauge / Twist Drain PS829P

Drain Kit – Twist Drain PS512P

Fill Cap Kit PS742P

Lubricator Service Kit PS748P

Mounting Bracket Kit PS843P

Oil – 1 Gal. F442002

12 Quart Case F442003

4 Gallon Case F442005

Pressure Fill Adapter Kit PS716P

Sight Dome / Fill Cap Kit PS739P

Sight Dome Kit PS740P

Nylon Sight Dome Kit PS740N

Specifications

Bowl Capacity ..... 4.9 Ounces

Minimum Flow for Lubrication ..... 1 SCFM At 100 PSIG

Port Threads ..... 3/8, 1/2, 3/4 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)

Suggested Lubricant ..... F442 Oil

Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F

(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Weight ..... 1.9 lb. (.9 kg)

Materials of Construction

Body ..... Zinc

Bowls – Transparent ..... Polycarbonate

Metal (With Sight Gauge) ..... Zinc

Bowl Guard ..... Steel

Collar ..... Plastic or Metal

Drain – Twist – Body & Nut ..... Plastic

Injector Meter Block & Base Assembly ..... Plastic

Seals ..... Nitrile

Sight Dome ..... Polycarbonate

Sight Gauge ..... Polyamide (Nylon)

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Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Mist Lubricators

- Pipe Sizes 1/4 thru 1½ Inch
- Flows to 260 SCFM
- Pressures to 250 PSIG

Mist Air Lubricators are designed to provide lubrication for most general applications in a pneumatic system. Units should be installed close to the application ensuring effective distribution of oil to pneumatic components.

- Miniature 04L Series, 1/4 Inch
- Standard FL10 Stainless Series, 1/2 Inch
- Hi-Flow P3NL Series, 3/4, 1 and 1-1/2 Inch

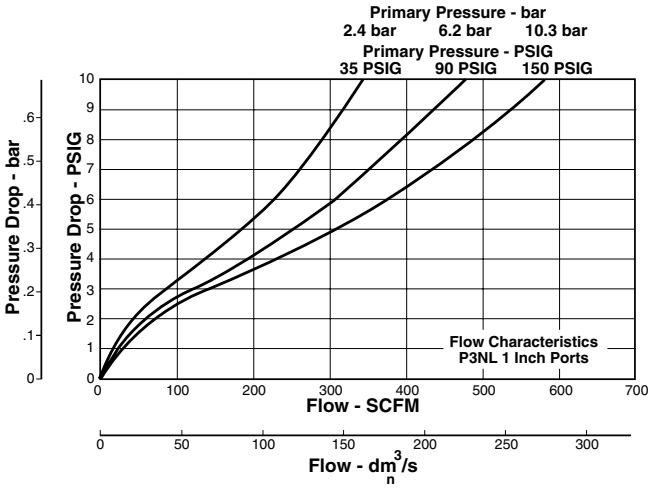
Lubricator Selection

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

F442 Oil

Quantity	Part Numbers
1 Quart	F442001P
1 Gallon	F442002P
12 Quart Case	F442003P
4 Gallon Case	F442005P

Reading Flow Charts to Size Mist Lubricators



Once the required flow is determined for a pneumatic application the lubricator can be selected by using the flow chart. To read the lubricator flow chart, first determine the inlet pressure that will be used. Find the appropriate pressure curve on the graph. Each graph will contain three pressure curves. If the required inlet pressure is not on the graph, interpolate a similar curve for the required pressure. Next, determine the acceptable pressure drop across the lubricator and locate it on the vertical axis. Find the intersection point of the acceptable pressure drop and the inlet pressure curve. At this point follow a vertical path downward to view the flow in SCFM.

If the flow is too low, select a larger port size or body size to give the required flow. If the flow is higher than necessary, select a smaller port size or body size to give the required flow.

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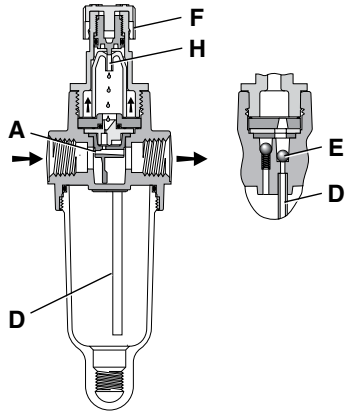
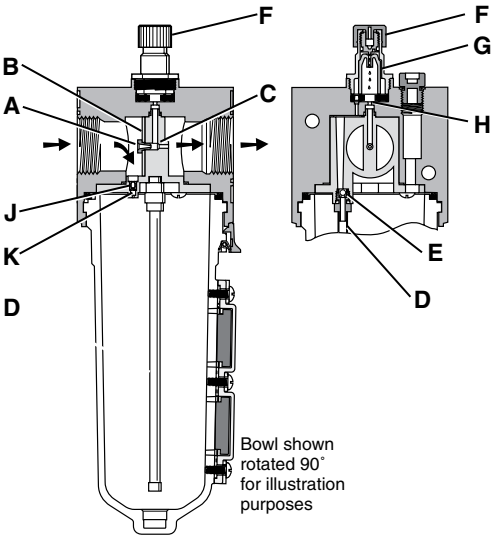


04L



P3NL

Air flowing through the unit goes through two paths. At low air flow rates, the majority of the air flows through venturi section **(A)**. The rest of the air slightly deflects and flows by the flapper **(B)**. The velocity of the air flowing through venturi section **(A)** creates a pressure drop at throat section **(C)**. This lower pressure allows oil to be forced from the reservoir through the pickup tube **(D)** past the check ball **(E)**, to the dome assembly where the rate of oil flow is controlled by metering screw **(F)**. Rotation of the metering screw **(F)** in the counterclockwise direction increases the oil flow rate; in the clockwise direction decreases the oil flow rate. Oil then flows through the clearance between inner and outer sight domes **(G)** where drops are formed and drip into the nozzle tube **(H)**. On the 09L, oil flows through the drip tube **(F)** where drops are formed and drip into the throat section **(C)**. Here it is then broken into fine particles and mixed with the swirling air to be carried to the venturi outlet where it joins the air by passing the flapper **(B)**. As air flow rate increases, the flapper **(B)**, deflects, allowing a greater part of the additional air to bypass the venturi section **(A)**. This assures the oil delivery rate increases linearly with increased air flow rate. The check ball **(E)** assures that when there is no oil flow the oil in the pickup tube does not return to the reservoir.

The bowl can be filled under pressure due to the action of the check ball **(J)**. When the fill cap is removed, air in the bowl escapes and pressure forces the check ball **(J)** to nearly seal at **(K)**. When the fill cap is replaced, the small amount of air flow past check ball **(J)** builds up pressure and together with the spring forces the check ball **(J)** off seat **(K)**, letting full line pressure into the bowl.

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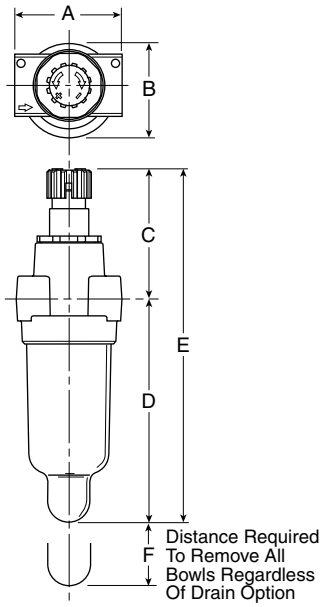
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

04L Mist Lubricators – Miniature

Features

- Proportional oil delivery over a wide range of air flows.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- High Flow: 1/4" – 20 SCFM§



Port Size	NPT	
	Twist Drain	No Drain
Poly Bowl ‡		
1/4"	—	**04L10G***
Metal Bowl without Sight Gauge		
1/4"	**04L13G***	—

‡ For polycarbonate bowl and sight dome, see Caution on page 2.

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

04L Lubricator Dimensions		
A 1.73 (44)	**B** 1.56 (40)	**C** 2.16 (55)
D 3.64 (92)	**D†** 3.78 (96)	**E** 5.80 (147)
E† 5.94 (151)	**F** 1.60 (41)	

Inches (mm)

† With Twist Drain.

Ordering Information

04L	1	0	G	*	—

Port Size	Bowl Options		Body	Engineering Level	Port Type
1 1/4 Inch	Polycarbonate Bowl	Metal Bowl	G Without Tamperproof Cap. No Fill Plug	* Will be Entered at Factory	Blank NPT
	0 Without Drain	3 Twist Drain			

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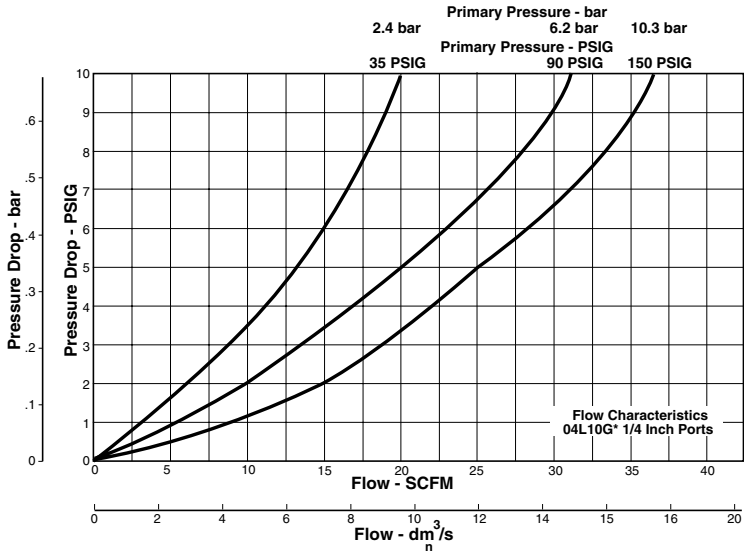
Technical Information



04L Mist Lubricator Kits & Accessories

Bowl Kits –

Poly Bowl – No Drain PS421P

Metal Bowl – Twist Drain (No Sight Gauge) PS447BP

Mounting Bracket Kit PS419

Oil – 1 Gal. F442002P
12 Quart Case F442003P
4 Gallon Case F442005P

Specifications

Bowl Capacity .....1 Ounce

Minimum Flow for Lubrication .....0.5 SCFM at 100 PSIG

Port Threads ..... 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)

Suggested Lubricant – .....F442 Oil
Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

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

Materials of Construction

Body ..... Zinc

Bowls – Transparent .....Polycarbonate
Metal (Without Sight Gauge) ..... Zinc

Drains – Twist – Body & Nut.....Plastic

Seals .....Nitrile

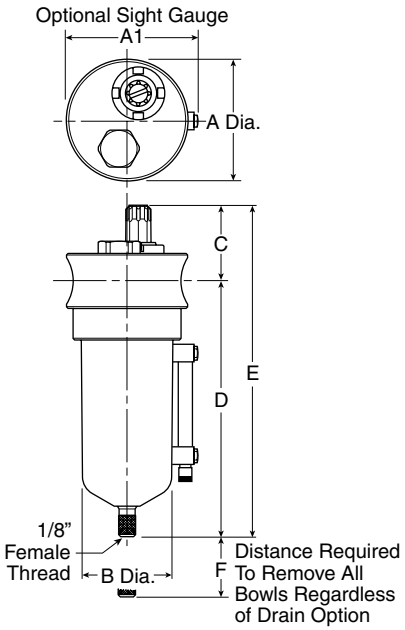
Sight Dome .....Polycarbonate

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

FL10 Lubricator – Standard

Features

- Stainless Steel Construction Handles Most Corrosive Environments
- 1/8" Female Threaded Drain
- Fillable Under Pressure
- Meets NACE Specifications MR-01-75/ISO 15156
- High Flow: 1/2" - 100 SCFM §



Port Size	NPT	
	Metal Bowl Without Sight Gauge	Metal Bowl With Sight Gauge
1/2"	FL10-04DSS	FL10-04WSS

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

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

FL10 Lubricator Dimensions		
A 2.38 (60)	**A1** 2.50 (64)	**B** 1.75 (44)
C 1.81 (46)	**D** 5.00 (127)	**E** 6.81 (173)
F 3.50 (89)		

inches (mm)

Ordering Information

FL10	-	04	W	SS

Port Type	Port Size	Bowl	Material
- NPT	04 1/2 Inch	D Metal Bowl without Sight Gauge W Metal Bowl with Sight Gauge	SS Stainless Steel

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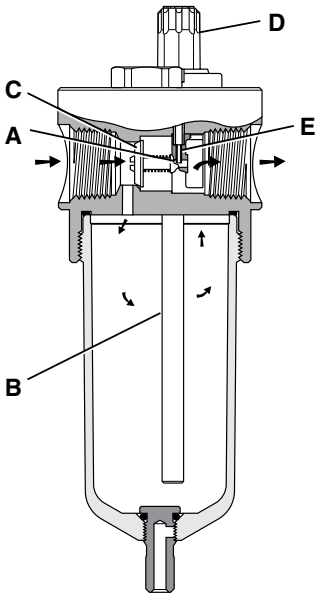
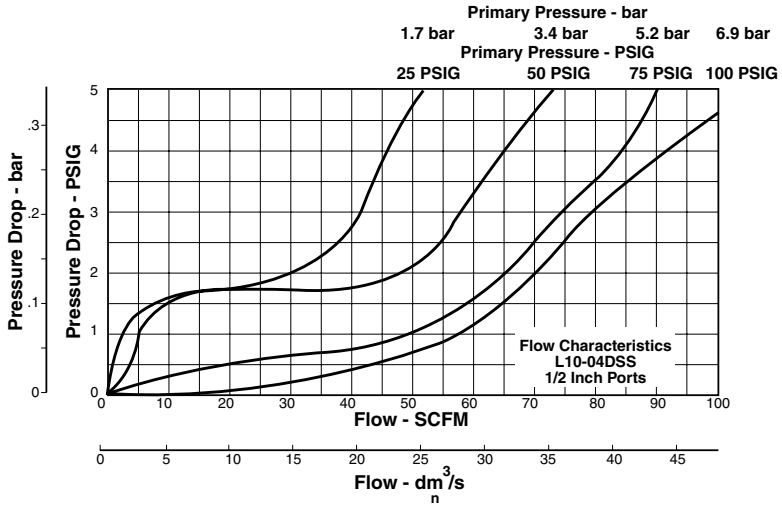
Operation



Air flowing through the unit goes through two paths. At low flow rates the majority of the air flows through the Venturi section **(A)**. The rest of the air opens the check valve **(C)**. The velocity of the air flowing through the Venturi section **(A)** creates a pressure drop. This lower pressure allows the oil to be forced from the reservoir through the pickup tube **(B)** and travels up to the metering screw **(D)**. The rate of oil delivery is then controlled by adjusting the metering screw **(D)**. Oil flows past the metering screw **(D)** and forms a drop in the nozzle tube **(E)**. As the oil drops through the dome **(F)** and back into the Venturi section **(A)**, it is broken up into fine particles. It is then mixed with the air flowing past the check valve **(C)** and is carried downstream. As the air flow increases the check valve **(C)** will open more fully. This additional flow will assure that the oil delivery rate will increase linearly with the increase of air flow.

Technical Information



FL10 Lubricator Kits & Accessories

Drain Kit –
Manual Twist Drain SA600Y7-1SS

Pipe Nipple –
1/2" 316 Stainless Steel 616A28-SS

Sight Dome Kit RKL10SS

Specifications

Bowl Capacity ..... 4.0 Ounces

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) Auto Drain Ratings

Metal Bowl (W) ..... 0 to 250 PSIG (0 to 17.2 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).

Weight ..... 1.9 lb. (0.85 kg)

Materials of Construction

Body ..... 316 Stainless Steel

Bowl ..... 316 Stainless Steel

Dip Tube ..... 316 Stainless Steel

Drain ..... 316 Stainless Steel

Fill Plug ..... 316 Stainless Steel

Seals ..... Fluorocarbon

Sight Dome ..... Nylon

Sight Gauge ..... Isoplast

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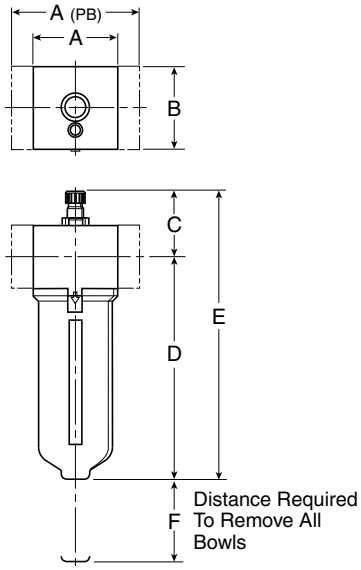
P3NL Mist Lubricators – Hi-Flow

Features

- Port blocks (PB) available to provide 1½" port extension to 1" ported bodies.
- Proportional oil delivery over a wide range of air flows.
- Bowl can be filled while air line is under pressure.
- Transparent sight dome for 360° visibility.
- High Flow: 3/4" – 240 SCFM§
  1" – 250 SCFM§
  1½" – 260 SCFM§



Port Size	NPT
	No Drain
Metal Bowl / Sight Gauge	
3/4"	**P3NLA96LSN**
1"	**P3NLA98LSN**
1½"#	**P3NLA9PLSN**

1" Port Body with 1-1/2" Port Block.

§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

P3NL Lubricator Dimensions		
A 3.62 (92)	**APB** 5.91 (150)	**B** 3.62 (92)
C 2.81 (71)	**D** 9.00 (229)	**E** 11.81 (300)
F 4.92 (125)		

Inches (mm)

Ordering Information

P3N	L	A	9	8	L	S	N

Design Level

Port Type
9 NPT Female

Note: 3/4 & 1 inch meet ISO 1179-1 Standard.

Port Size
6 3/4" (w/o Port Blocks)
8 1" (w/o Port Blocks)
P 1-1/2" Port Blocks (w/ 1" Ported Body)

Type
Oil Mist
L w/ Polycarbonate Sight Dome

Bowl
S Metal Bowl w/ Sight Gauge

Drain / Fill Device
N No Drain, Solid Bowl / Fill Plug

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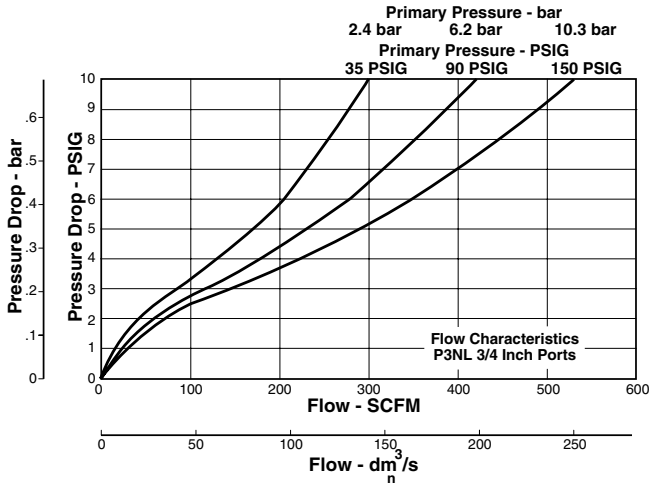
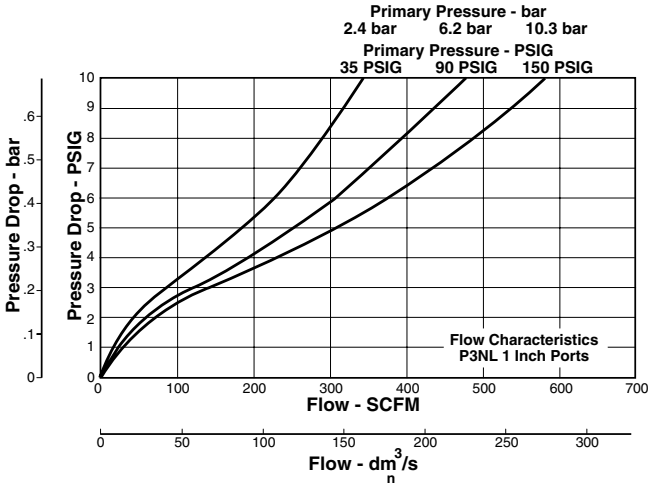
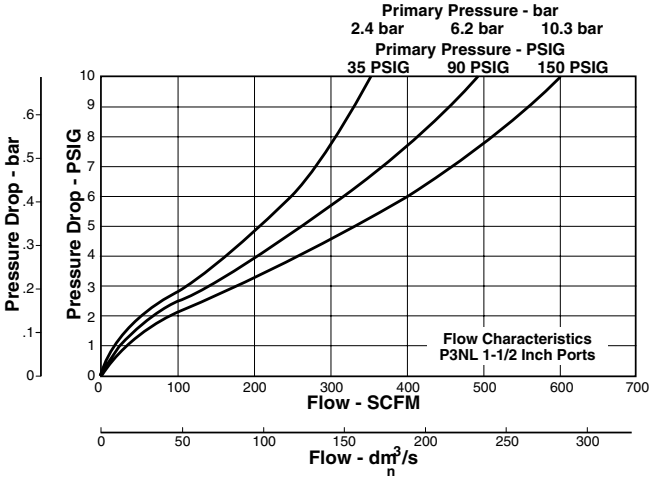
Technical Information







P3NL Lubricator Kits & Accessories

Adjustment Knob P04121

Bowl Kits –
Metal Bowl – Sight Gauge / Twist Drain P3NKA00BSM
Metal Bowl – Sight Gauge / No Drain P3NKA00BSN

Bowl Latch Kit C11A33

Drain Kit – Twist Drain PS512P

Fill Cap Kit P3NKA00PL

Sight Dome Kit – Polycarbonate PS740P
Nylon PS740N

Sight Gauge Kit P3NKA00PE

Pressure Fill Adapter Kit P3NKA00PK

Service Kit P3NKA00RL

Mounting Bracket Kit* P3NKA00MW

Oil – 1 Gal. F442002P
12 Quart Case F442003P
4 Gallon Case F442005P

Specifications

Bowl Capacity ..... 18.0 Ounces

Minimum Flow for Lubrication ..... 6.6 SCFM at 100 PSIG

Pressure & Temperature Rating ..... 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)

Suggested Lubricant ..... F442 Oil
Petroleum based oil of 100 to 200 SSU viscosity at 100°F and an aniline point greater than 200°F
(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Weight – 3/4 Inch ..... 3.5 lb. (1.6 kg)
1 Inch ..... 3.5 lb. (1.6 kg)
1-1/2 Inch† ..... 4.6 lb. (2.1 kg)

Materials of Construction

Body, Bowl ..... Aluminum

Drains: Twist Drain (Optional) ..... Plastic

Injector Meter Block & Base Assembly ..... Plastic

Seals ..... Nitrile

Sight Dome ..... Polycarbonate

Sight Gauge ..... Polyamide (Nylon)

† 1" Port Body with 1-1/2" Port Block.

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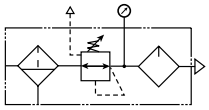
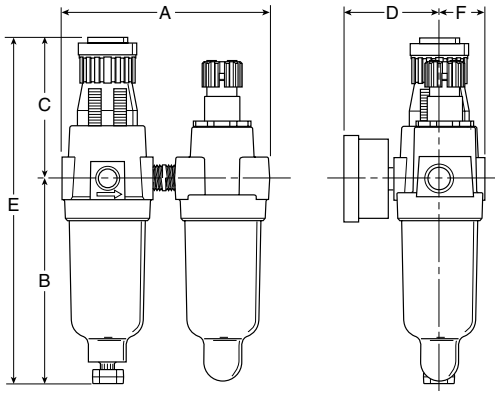
Close Nippled Combinations – 14 Miniature Series

- See individual component pages for details.

Two-Unit Combo





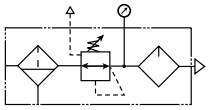
Series	Port	Model Numbers
14G	1/4"	**14G11B13F0G***

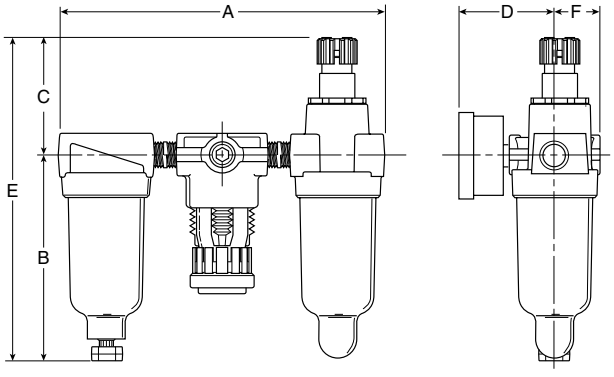
A	B	C	D	E	F
3.75 (95)	3.79 (96)	2.42 (61)	2.04 (52)	6.21 (158)	0.79 (20)

Inches (mm)
Note: All dimensions nominal.

- Regulator can be mounted with knob in up or down position.

Three-Unit Combo





Series	Port	Model Numbers
14A	1/4"	**14A11B13F0G***

A	B	C	D	E	F
5.77 (147)	3.82 (97)	2.16 (55)	2.04 (52)	5.98 (152)	0.79 (20)

Inches (mm)
Note: All dimensions nominal.

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Close Nippled Combinations – 14 Miniature Series

Ordering Information

14A	1	1	B	13	F	0	G	*

Series
14A 3-Unit
14G 2-Unit

Port Size
1 1/4 Inch

Filter Bowl Options
Poly Bowl
1 Twist Drain
Metal Bowl
3 Twist Drain

Filter Element
B 5 Micron

Regulator Pressure
Without Gauge
13 125 PSIG

Relief
F Relieving

Lubricator Bowl Options
Poly Bowl
0 No Drain
Metal Bowl
3 Twist Drain

Lubricator Body Options
G No Fill Plug

Engineering Level
*Will be entered at factory

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.

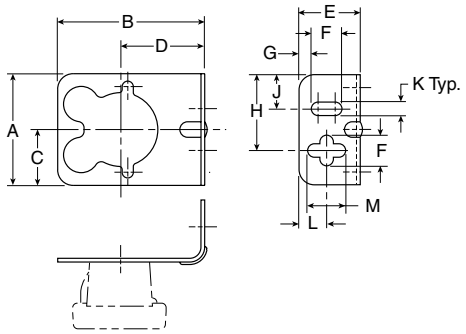
For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

⚠ WARNING

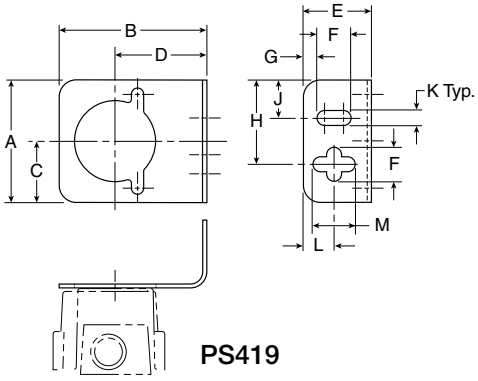
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

For polycarbonate bowl and sight dome, see Caution on page 2.

Mounting Brackets



PS417BP
(Includes Panel Mount Nut)



PS419

Dimensions

A	B	C	D	E	F	G	H	J	K	L	M	Kit
1.80 (46)	2.37 (60)	0.90 (23)	1.35 (34)	1.00 (25)	0.50 (13)	0.20 (5)	1.24 (31)	0.56 (14)	0.22 (6)	0.45 (11)	0.62 (16)	**PS417BP** (14F, P3A, 14R, 14E)
1.80 (46)	2.17 (55)	0.90 (23)	1.35 (34)	1.00 (25)	0.50 (13)	0.20 (5)	1.24 (31)	0.56 (14)	0.22 (6)	0.45 (11)	0.62 (16)	**PS419** (04L)

Inches (mm)

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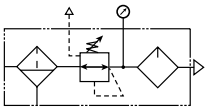
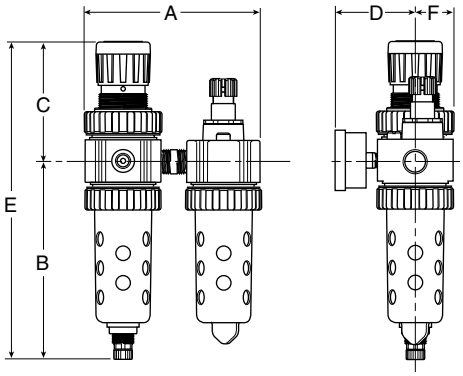
Close Nippled Combinations – 15 Economy Series

- Regulator can be mounted with knob in up or down position.
- See individual component pages for details.

Two-Unit Combo



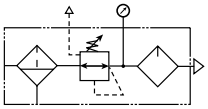


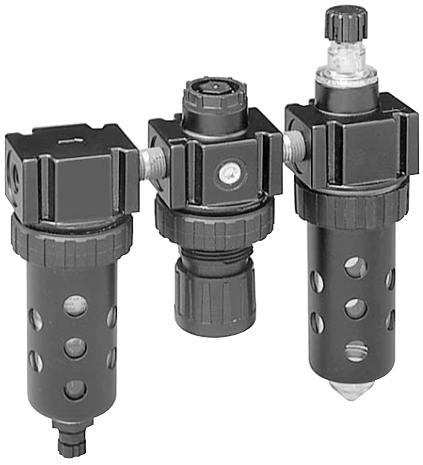
Series	Port	Model Numbers
15G	1/4"	15G12B13A2N*
	3/8"	15G22B13A2N*

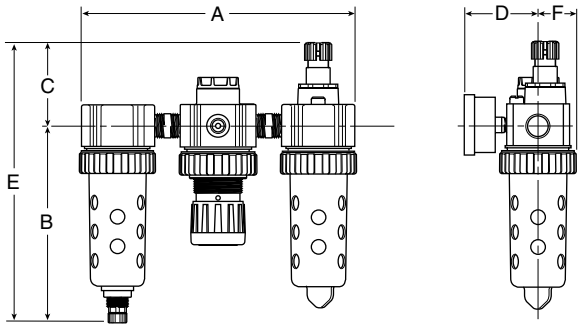
A	B	C	D	E	F
4.49 (114)	5.35 (136)	3.16 (80)	2.05 (52)	8.50 (216)	1.03 (26)

Inches (mm)
Note: All dimensions nominal.

Three-Unit Combo







Series	Port	Model Numbers
15A	1/4"	15A12B13A2N*
	3/8"	15A22B13A2N*

A	B	C	D	E	F
7.00 (178)	5.35 (136)	2.24 (57)	2.05 (52)	7.59 (193)	1.03 (26)

Inches (mm)
Note: All dimensions nominal.

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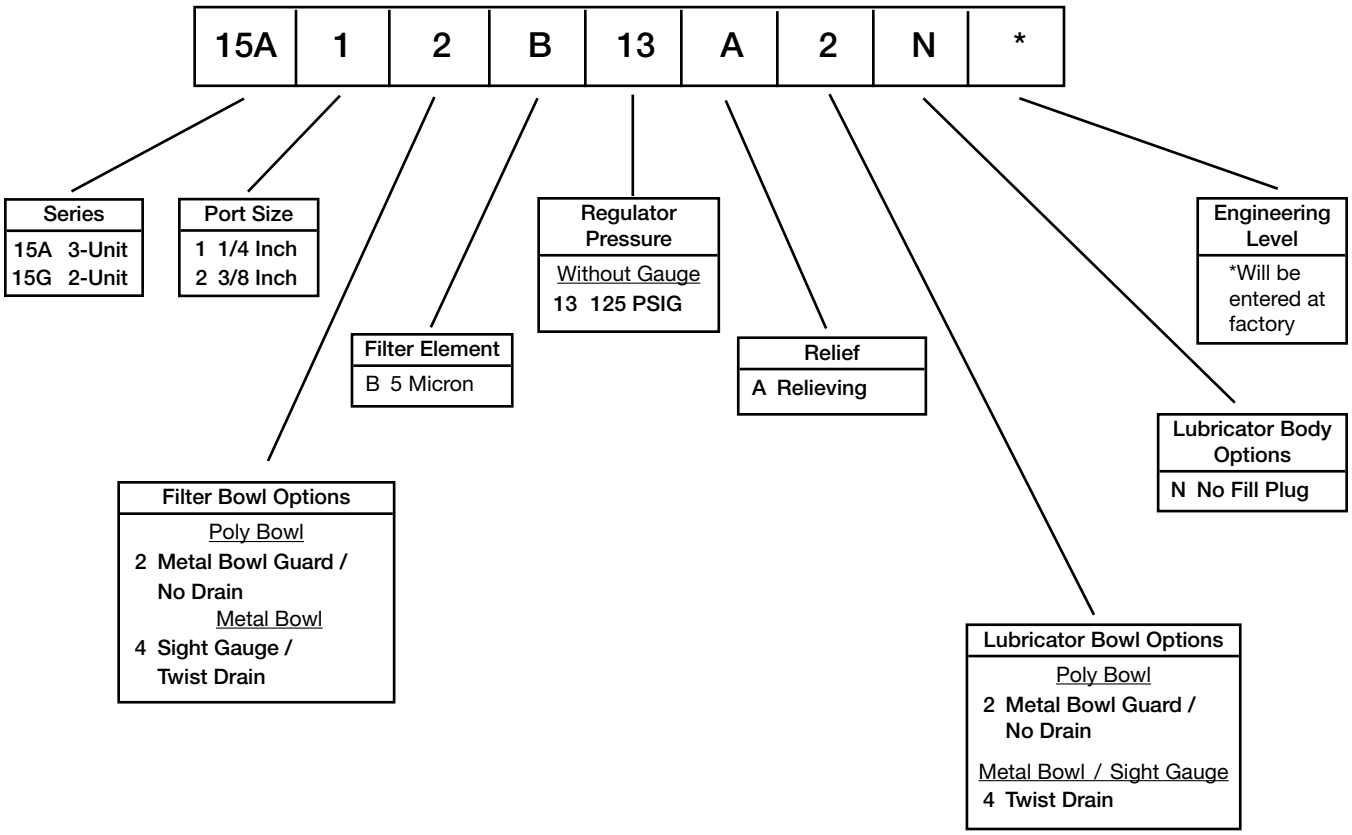
Close Nippled Combinations – 15 Economy Series

Ordering 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.

For polycarbonate bowl and sight dome, see Caution on page 2.

Kits & Accessories (See individual component sections for other kits and accessories.)

Mounting Bracket Kit PS963P
(Includes Panel Mount Nut)

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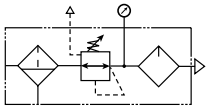
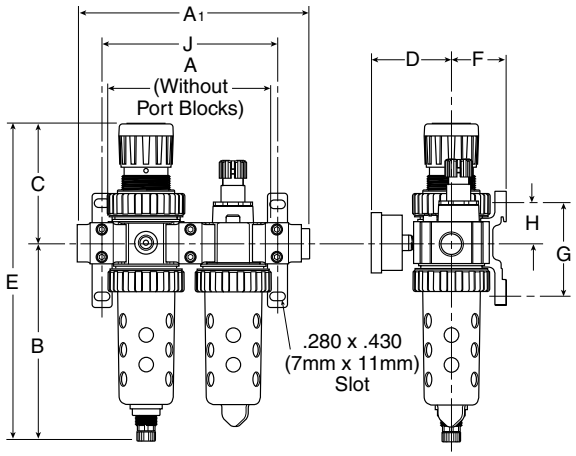
Modular Combinations – 15 Economy Series

- Regulator can be mounted with knob in up or down position.
- See individual component pages for details.
- Gauges, Port Blocks, Manifold Blocks and Ball Valve must be ordered separately.

Two-Unit Combo





Series	Port	Model Numbers
15H	1/4"	15H12B13A2N*
	3/8"	15H22B13A2N*

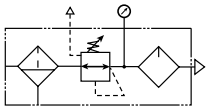
For other models, refer to ordering information on next page.

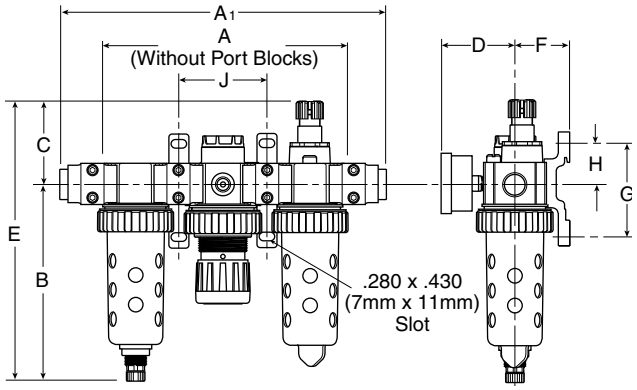
A	A1	B	C	D	E	F
4.33 (110)	6.38 (162)	5.35 (136)	3.15 (80)	2.05 (52)	8.50 (216)	1.45 (37)
G	**H**	**J**				
2.60 (66)	1.14 (29)	4.72 (120)				

Inches (mm)

- All dimensions nominal.
- **Mounting brackets not included.**

Three-Unit Combo





Series	Port	Model Numbers
15B	1/4"	15B12B13A2N*
	3/8"	15B22B13A2N*

For other models, refer to ordering information on next page.

A	A1	B	C	D	E	F
6.70 (170)	8.72 (222)	5.35 (136)	2.24 (57)	2.05 (52)	7.59 (193)	1.45 (37)
G	**H**	**J**				
2.60 (66)	1.14 (29)	2.35 (600)				

Inches (mm)

- All dimensions nominal.
- **Mounting brackets not included.**

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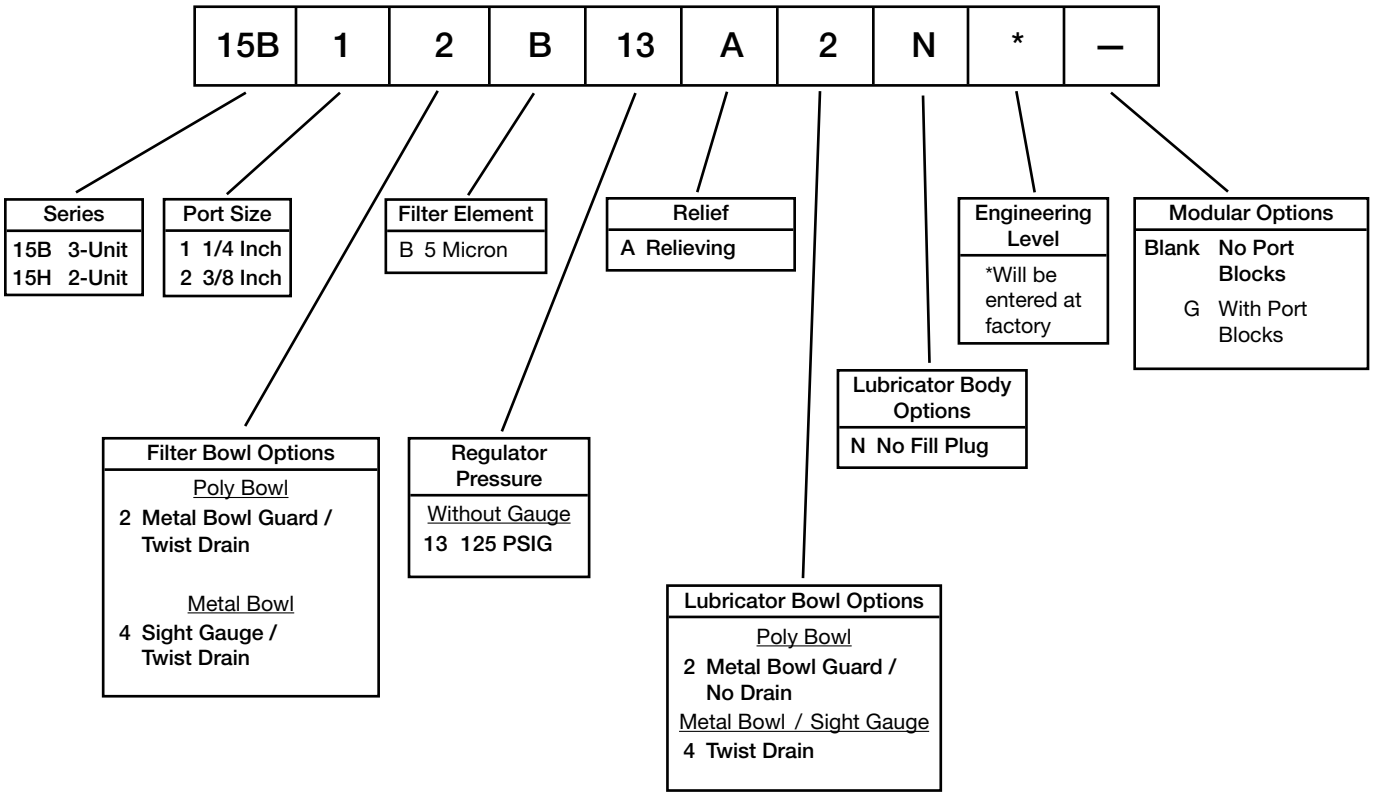
Modular Combinations – 15 Economy Series

Ordering Information



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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.

For polycarbonate bowl and sight dome, see Caution on page 2.

Kits & Accessories (See individual component sections for other kits and accessories.)

Body Connector Kit PS954P
Lockout Valve PS95601P
Manifold Block PS95701P
Wall Mounting Kit PS955P

Port Block Kits:	**1/4"**	**3/8"**
NPT	**PS95001P**	**PS95002P**

* 1/4 & 3/8 inch meet ISO 1179-1 Standard.

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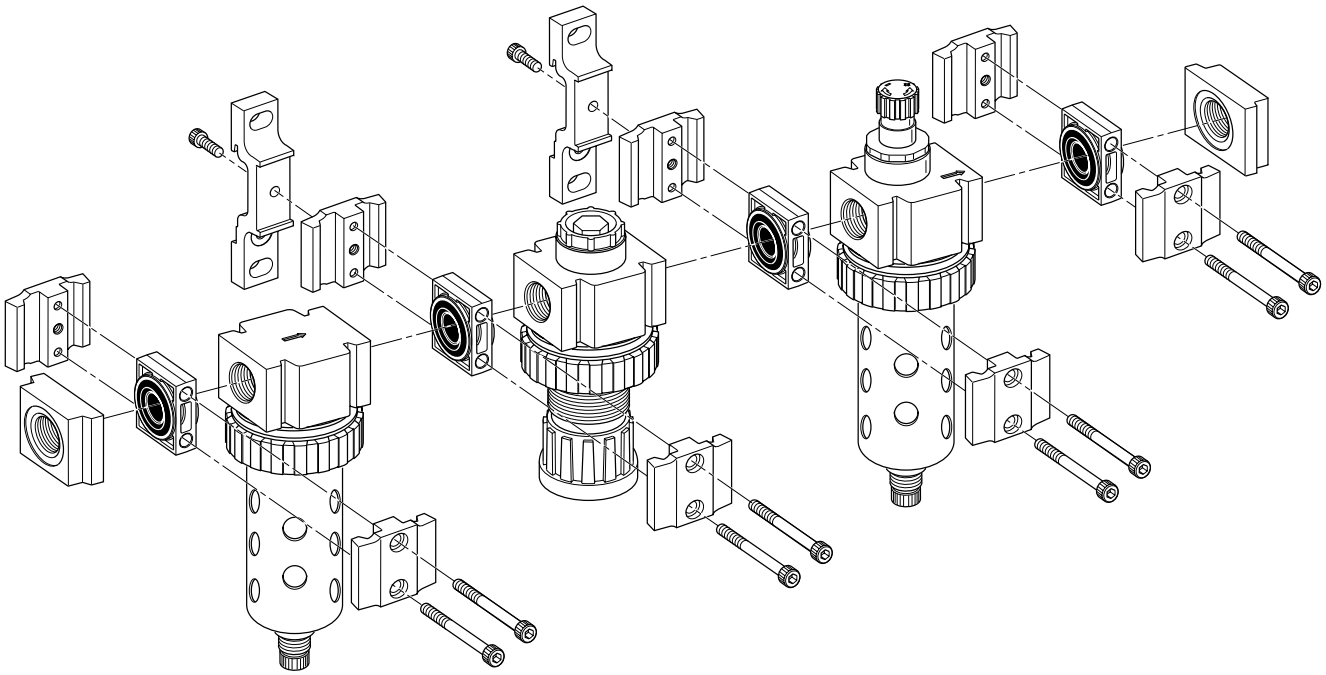
Modular Accessories – 15 Economy Series



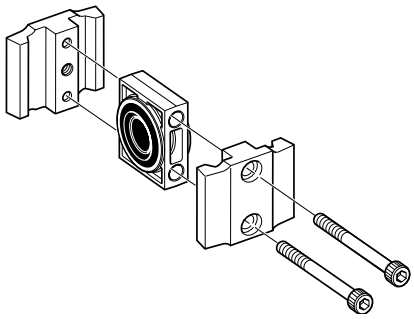
Port Block Connector Kits

	1/4"	3/8"
NPT	PS95001P	PS95002P

* 1/4 & 3/8 inch meet ISO 1179-1 Standard.

Body Connectors

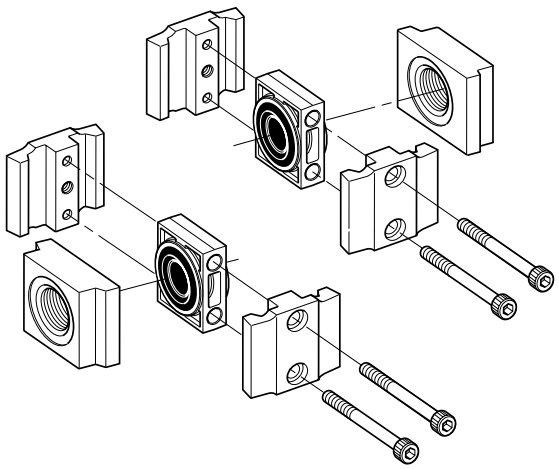
PS954P



Body Connectors allow you to easily assemble and disassemble Modular Combinations.

Body Connectors are required whenever you assemble two or more pieces together.

Each Kit includes one set.



Port Block Connectors allow you to make threaded port connections to Modular units and are available in various port sizes to match your system requirements.

Each Kit includes all the necessary pieces to make two port connections.

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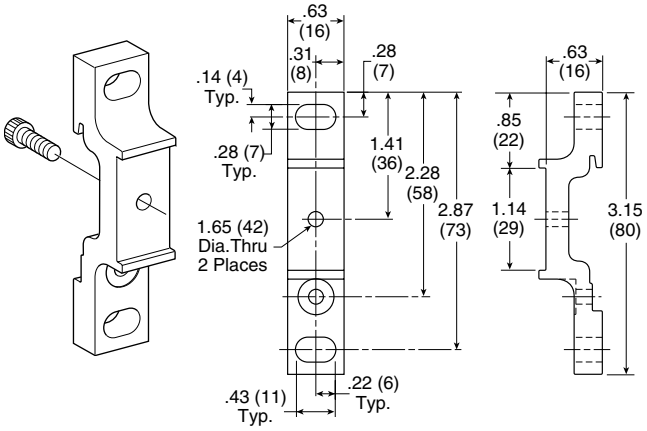
Modular Accessories – 15 Economy Series

Wall Mounting Kits

PS955P



Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set.

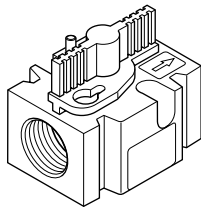
Since Modular Combinations are always identical in size, you can predrill for wall mounting on your equipment.

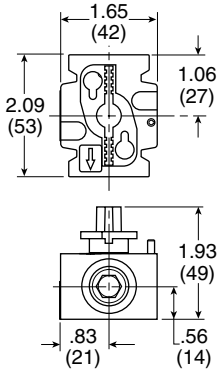
Kit includes 1 assembly.

Lockout Valve

PS95601P

1/4" Port





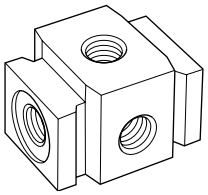
Lockout Valves provide positive shut-off and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start for 06 and 07 series. Accepts #3 padlock.

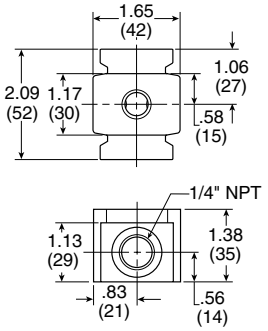
NOTE: Body Connectors are not supplied with Lockout Valves.

Modular Manifold Block

PS95701P

1/4" Port





A Modular Manifold Block can be used between any two Modular units to give additional outlet ports. The 1/4" Manifold Block provides three additional outlets. Any standard pipe plug can be used to close off unused ports.

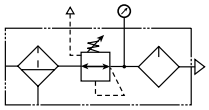
NOTE: Body Connectors are not supplied with Manifold Blocks.

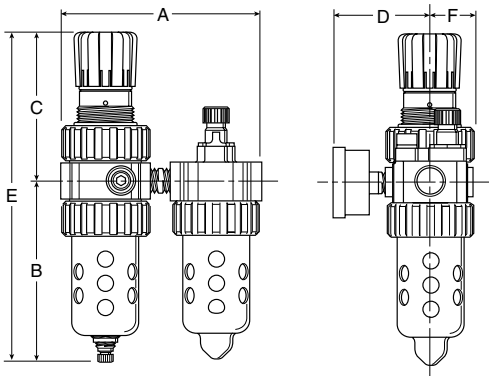
Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Close Nippled Combinations – 16 Compact & 17 Standard Series

- See individual component pages for details.

Two-Unit Combo





Series	Port	Model Numbers
16G	1/4"	16G12B13A2B*
	3/8"	16G22B13A2B*
	1/2"	16G32B13A2B*
17G	3/8"	17G22B13A2B*
	1/2"	17G32B13A2B*
	3/4"	17G42B13A2B*

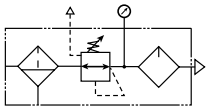
For other models, refer to ordering information on next page.

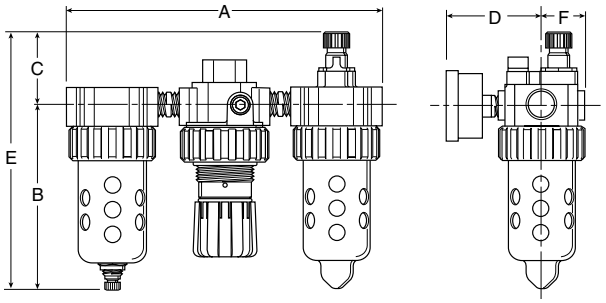
16G Series					
A	B	C	D	E	F
6.13 (156)	5.69 (145)	4.69 (119)	3.18 (81)	10.38 (264)	1.37 (35)
17G Series					
A	B	C	D	E	F
6.99 (178)	6.97 (177)	4.79 (122)	3.44 (87)	11.76 (299)	1.63 (41)

Inches (mm)

- All dimensions nominal.

Three-Unit Combo





Series	Port	Model Numbers
16A	1/4"	16A12B13A2B*
	3/8"	16A22B13A2B*
	1/2"	16A32B13A2B*
17A	3/8"	17A22B13A2B*
	1/2"	17A32B13A2B*
	3/4"	17A42B13A2B*

For other models, refer to ordering information on next page.

16A Series					
A	B	C	D	E	F
9.45 (240)	5.69 (145)	2.24 (57)	3.18 (81)	7.93 (201)	1.37 (35)
17A Series					
A	B	C	D	E	F
10.74 (2738)	6.97 (177)	2.41 (61)	3.44 (87)	9.38 (238)	1.63 (41)

Inches (mm)

- All dimensions nominal.

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Close Nippled Combinations – 16 Compact & 07 Standard Series

Ordering Information

16A	1	2	B	13	A	1	B	*

Series
Micro-Mist
16A Compact 3-Unit
17A Standard 3-Unit
16G Compact 2-Unit
17G Standard 2-Unit

Port Size
1 1/4 Inch*
2 3/8 Inch
3 1/2 Inch
4 3/4 Inch**
* Available on 16G/16A only.
** Available on 17G/17A only.

Filter Element
B 5 Micron

Relief
A Relieving

Lubricator Body Options
B With Fill Plug

Engineering Level
*Will be entered at factory

Filter Bowl Options
Poly Bowl
2 Metal Bowl Guard / Twist Drain
Metal Bowl
4 Sight Gauge / Twist Drain

Regulator Pressure
Without Gauge
13 125 PSIG

Lubricator Bowl Options
Poly Bowl
2 Metal Bowl Guard / No Drain
Metal Bowl / Sight Gauge
4 Twist Drain

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.

For polycarbonate bowl and sight dome, see Caution on page 2.

Kits & Accessories (See individual component sections for other kits and accessories.)

Mounting Bracket Kit (Includes Panel Mount Nut)
16A , 16G PS707P
17A , 17G PS807P

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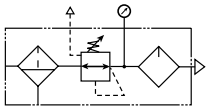
Oxford, MI
www.parker.com/finitefilter

Modular Combinations – 16 Compact & 17 Standard Series

- See individual component pages for details.

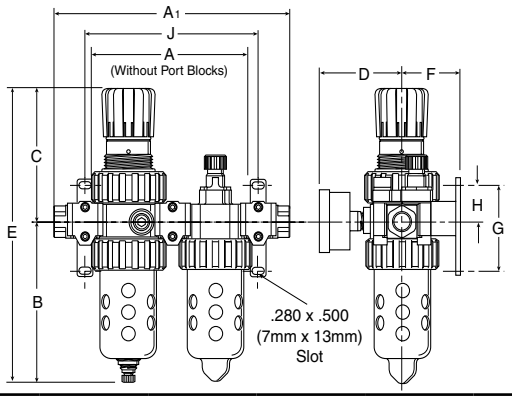
Two-Unit Combo



Series	Port	Model Numbers
16H	1/4"	16H12B13A2B*
	3/8"	16H22B13A2B*
	1/2"†	16H32B13A2B*G
17H	3/8"	17H22B13A2B*
	1/2"	17H32B13A2B*
	3/4"	17H42B13A2B*

For other models, refer to ordering information on next page.

† Available with Port Blocks Only.

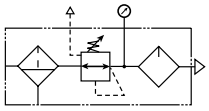


16H Series					
A	A1	B	C	D	E
6.10 (155)	9.04 (230)	5.69 (145)	4.69 (119)	3.18 (81)	10.38 (264)
F	G	H	J		
2.00 (51)	3.58 (91)	1.40 (36)	6.65 (169)		
17H Series					
A	A1	B	C	D	E
7.00 (178)	10.28 (261)	6.97 (177)	4.79 (122)	3.44 (87)	11.76 (299)
F	G	H	J		
2.18 (55)	3.58 (91)	1.40 (36)	7.51 (191)		

Inches (mm)

- All dimensions nominal.

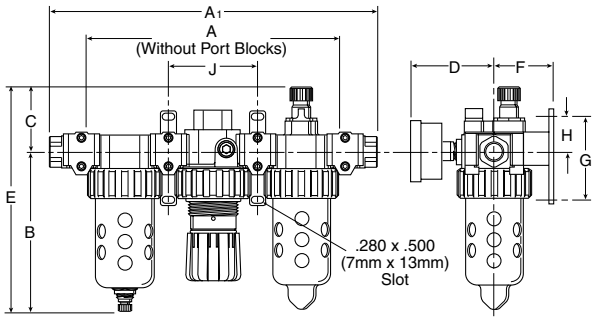
Three-Unit Combo



Series	Port	Model Numbers
16B	1/4"	16B12A13A2B*
	3/8"	16B22A13A2B*
	1/2"†	16B32A13A2B*G
17B	3/8"	17B22B13A2B*
	1/2"	17B32B13A2B*
	3/4"	17B42B13A2B*

For other models, refer to ordering information on next page.

† Available with Port Blocks Only.



16B Series					
A	A1	B	C	D	E
9.46 (240)	12.39 (315)	5.69 (145)	2.24 (57)	3.18 (81)	7.82 (199)
F	G	H	J		
2.00 (51)	3.58 (91)	1.40 (36)	3.33 (85)		
17B Series					
A	A1	B	C	D	E
10.750 (273)	14.03 (356)	6.97 (177)	2.41 (61)	3.44 (87)	9.27 (235)
F	G	H	J		
2.18 (55)	3.58 (91)	1.40 (36)	3.76 (95)		

Inches (mm)

- All dimensions nominal.

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Modular Combinations – 16 Compact & 17 Standard Series

Ordering Information

16B	1	2	B	13	A	2	B	*	–

Series
Micro-Mist
16B Compact 3-Unit
17B Standard 3-Unit
16H Compact 2-Unit
17H Standard 2-Unit

Port Size
1 1/4 Inch*
2 3/8 Inch
3 1/2 Inch***
4 3/4 Inch**
* Available on 16 Series only.
** Available on 17 Series only.
*** 16 available with Port Blocks only.

Filter Element
B 5 Micron

Relief
A Relieving

Engineering Level
*Will be entered at factory

Modular Options
Blank No Port Blocks
G With Port Blocks

Lubricator Body Options
B With Fill Plug

Filter Bowl Options
Poly Bowl
2 Metal Bowl Guard / Twist Drain
Metal Bowl
4 Sight Gauge / Twist Drain

Regulator Pressure
Without Gauge
13 125 PSIG

Lubricator Bowl Options
Poly Bowl
2 Metal Bowl Guard / No Drain
Metal Bowl / Sight Gauge
4 Twist Drain

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.

For polycarbonate bowl and sight dome, see Caution on page 2.

Kits & Accessories (See individual component sections for other kits and accessories.)

Body Connector Kit	PS754P
Lockout Valve	PS756P
Manifold Block	PS757P
Wall Mounting Kit	PS755P

Port Block Kits:	NPT	
06 Series	1/4"	PS750P
	3/8"	PS751P
	1/2"	PS752P*

* Use 1/4 or 3/8 ported bodies.
† 1/4, 3/8 & 1/2 inch meet ISO 1179-1 Standard.

07 Series	1/4"	PS850P
	3/8"	PS851P
	1/2"	PS852P
	3/4"	PS853P

‡ 1/2 inch meets ISO 1179-1 Standard.

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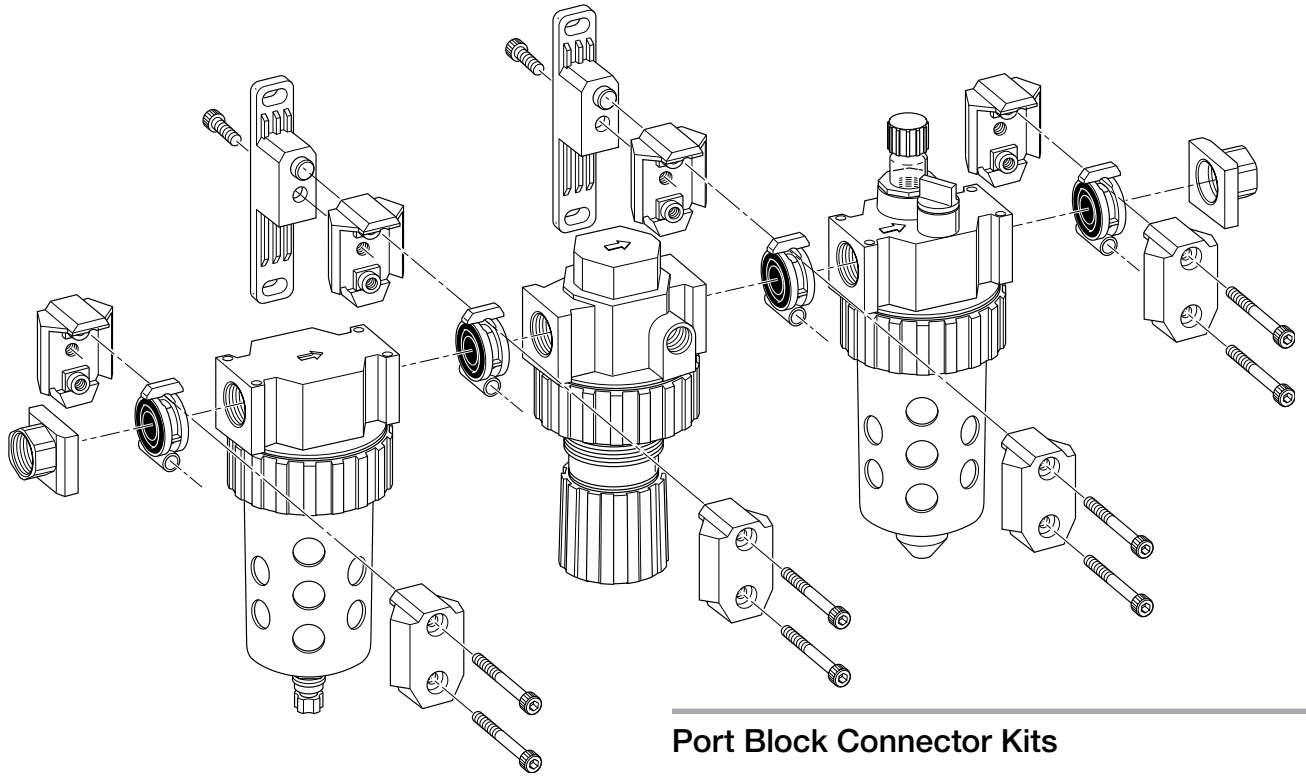
Modular Accessories – 16 Compact & 17 Standard Series



Port Block Connector Kits

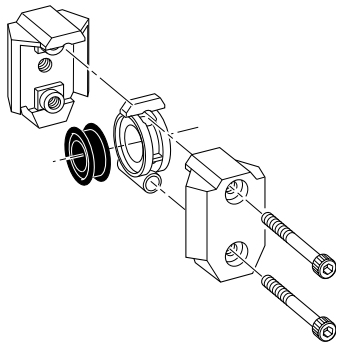
Series	Size	NPT
16 Series	1/4"	PS750P
	3/8"	PS751P
	1/2"	PS752P*
17 Series	3/8"	PS851P
	1/2"	PS852P
	3/4"	PS853P

* Use 1/4 or 3/8 ported bodies.

Body Connectors

16 Series..... PS754P

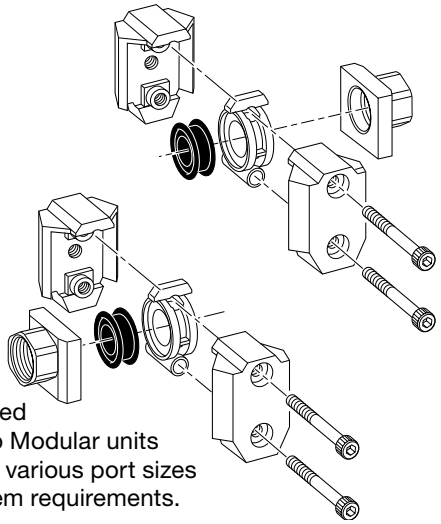
17 Series..... PS854P



Body Connectors allow you to easily assemble and disassemble Modular Combinations.

Each Kit includes one set.

Body Connectors are required whenever you assemble two or more pieces together.



Port Block Connectors allow you to make threaded port connections to Modular units and are available in various port sizes to match your system requirements.

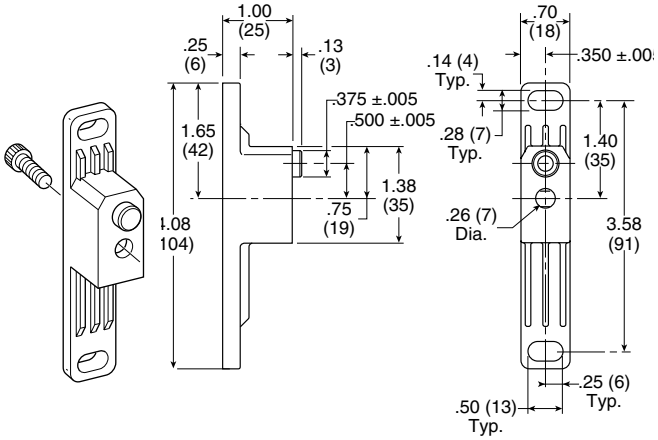
Each Kit includes all the necessary pieces to make two port connections.

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Modular Accessories – 16 Compact & 17 Standard Series

Wall Mounting Kits

16 Series & 17 Series PS755P



Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set.

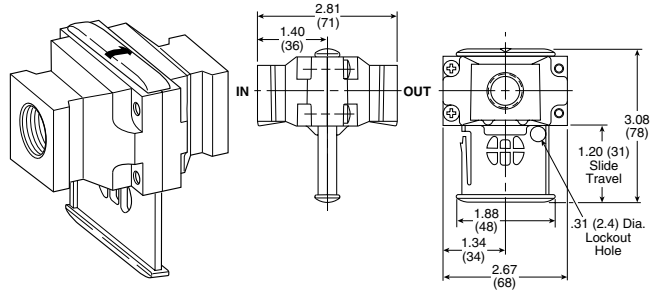
Since Modular Combinations are always identical in size, you can predrill for wall mounting on your equipment.

Kit includes 1 assembly.

Lockout Valves

06 Series ..... PS756P.....3/8" Port

07 Series..... PS856P .....1/2" Port



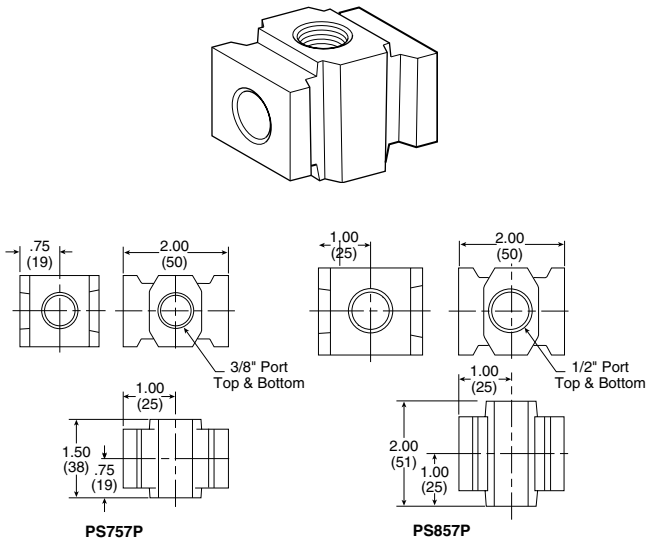
Lockout Valves provide positive shut-off and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start. Accepts #3 padlock.

NOTE: Body Connectors are not supplied with Lockout Valves.

Modular Manifold Block

16 Series..... PS757P..... 3/8" Port

17 Series..... PS857P ..... 1/2" Port



A Modular Manifold Block can be used between any two Modular units to give additional outlet ports. The Manifold Block provides 2 additional outlets in 3/8" and 1/2" sizes. Any standard pipe plug can be used to close off unused ports.

NOTE: Body Connectors are not supplied with Manifold Blocks.

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
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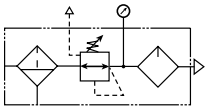
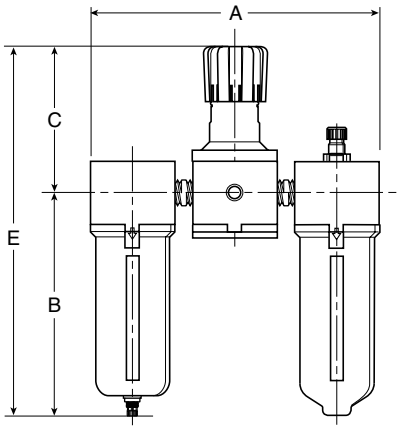
Close Nippled Combinations – P3N Hi-Flow Series

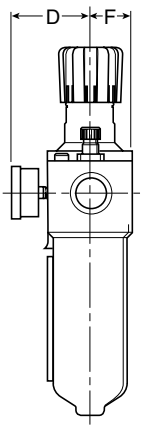
- Regulator can be mounted with knob in up or down position.
- See individual component pages for details.

Three-Unit Combo



- 5 Micron Filter Element
- Manual Twist Drain
- Relieving Regulator
- 125 PSI (8.6 bar)





Series	Port	Model Numbers
P3N3B	3/4"	P3N3B96SEMNNLNA
	1"	P3N3B98SEMNNLNA
	1-1/2"†	P3N3B9PSEMNNLNA

Notes: All Combo part numbers are with regulator knob in up position.
† 1" Port Body with 1-1/2" Port Block.
For other models, refer to Ordering Information on next page.

A	B	C	D	E	F
11.89 (302)	9.57 (243)	6.38 (162)	3.56 (90)	15.95 (405)	1.81 (50)

Inches (mm)
• All dimensions nominal.

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Close Nippled Combinations – P3N Hi-Flow Series

Ordering Information

P3N	3	B	9	6	S	E	M	N	N	L	N	A
Series												

Type
3 Combinations w/ Pipe Nipples

Combination
Metal Bowl
B Hi-Flow 3-Unit

Port Type
9 NPT Female

Port Size
6 3/4" (w/o Port Blocks)
8 1" (w/o Port Blocks)
P 1-1/2" Port Blocks (w/ 1" Ported Body)

Bowl
S Metal Bowl w/ Sight Gauge

Filter Elements
E 5 Micron

Filter Drains
M Twist Drain

Relief
N Relieving

Regulator Pressure Range & Gauges
Without Gauge
N 125 PSI (0 to 8 bar)

Lubricator Type
Oil Mist
L w/ Polycarbonate Sight Dome

Lubricator Drain / Fill Devices
N No Drain, Solid Bowl / Fill Plug

Mounting Options
A No Brackets or Kits

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.

Kits & Accessories (See individual component sections for other kits and accessories.)

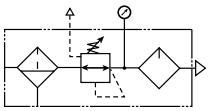
Wall Mounting Kit P3NKA00MW

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

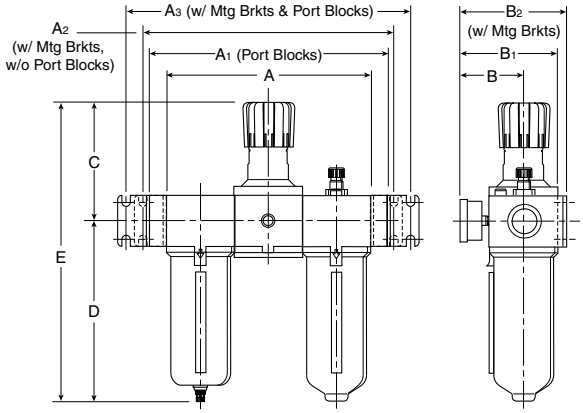
Modular Combinations – P3N Hi-Flow Series

- Regulator can be mounted with knob in up or down position.
- See individual component pages for details.

Three-Unit Combo



- 5 Micron Filter Element
- Manual Twist Drain
- Relieving Regulator
- 125 PSI (8.6 bar)



Series	Port	Model Numbers
P3NCB	3/4"	P3NCB9HSEMNNLNA
	1"	P3NCB9MSEMNNLNA
	1-1/2"†	P3NCB9PSEMNNLNA

Notes: All Combo part numbers are with regulator knob in up position.
† 1" Port Body with 1-1/2" Port Block.
For other models, refer to Ordering Information on next page.

A	A1	A2	A3	B	B1	B2
10.87 (2764)	13.15 (334)	13.46 (342)	15.75 (400)	3.62 (92)	5.20 (132)	5.74 (146)
C	**D**	**E**				
6.38 (162)	9.57 (243)	15.95 (405)				

Inches (mm)
• All dimensions nominal.

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Modular Combinations – P3N Hi-Flow Series

Ordering Information

P3N	C	B	9	H	S	E	M	N	N	L	N	A

Series

Type
C Combination - Modular

Combination
Metal Bowl
B Hi-Flow 3-Unit

Port Type
9 NPT Female

Port Size
H 3/4" Port Blocks (w/ 3/4" Ported Body)
M 1" Port Blocks (w/ 1" Ported Body)
P 1-1/2" Port Blocks (w/ 1" Ported Body)

Bowl
S Metal Bowl w/ Sight Gauge

Filter Elements
E 5 Micron

Filter Drains
M Twist Drain

Relief
N Relieving

Regulator Pressure Range & Gauges
Without Gauge
N 125 PSI (0 to 8 bar)

Lubricator Type
Oil Mist
L w/ Polycarbonate Sight Dome

Lubricator Drain / Fill Devices
N No Drain, Solid Bowl / Fill Plug

Mounting Options
A No Brackets or Kits

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.

Kits & Accessories (See individual component sections for other kits and accessories.)

Port Block Kits: For Modular Combinations

	3/4"	1"	1-1/2"
NPT	P3NKB96CL	P3NKB98CL	P3NKB9BCL

* 3/4, 1 & 1-1/2 inch meet ISO 1179-1 Standard.

Wall Mounting Kit P3NKA00MW

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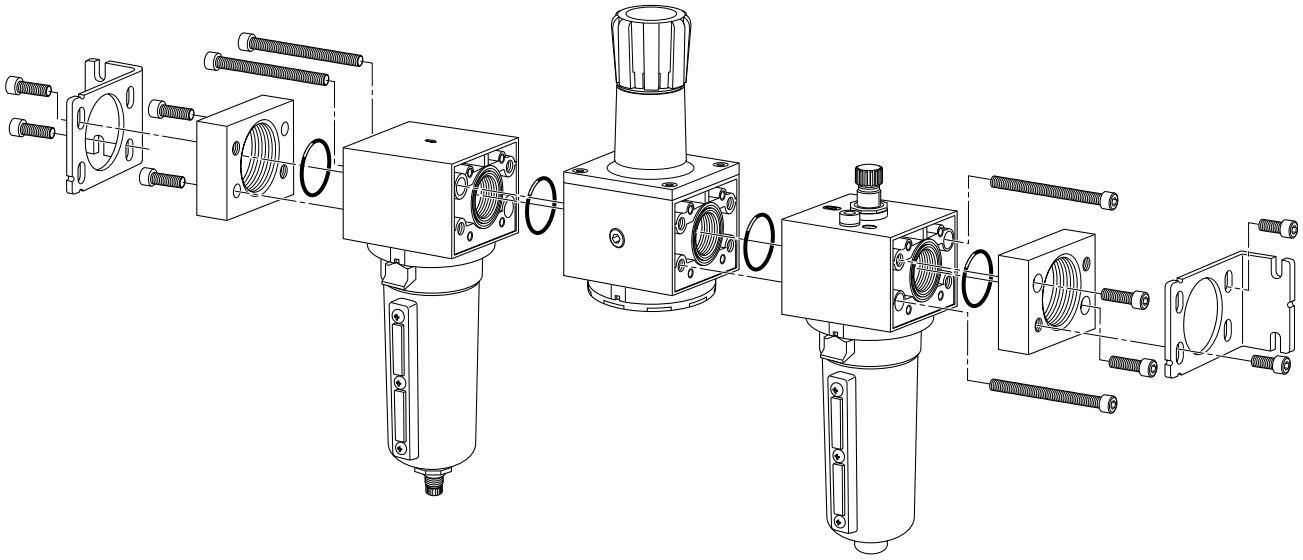
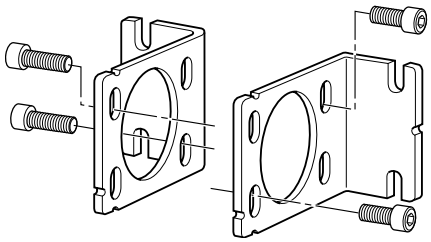
Modular Accessories – P3N Hi-Flow Series



Mounting Brackets

P3NKA00MW

For 1-1/2" BSPP Port Block with E02 fitting application, use **Mounting Bracket Kit P3NKA0BMW**

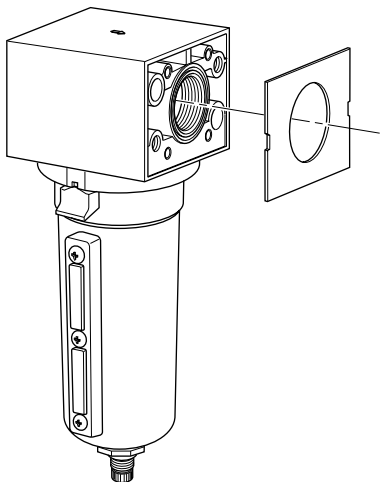


Replacement Body Covers

P3NKA00PM

Each Kit contains two covers.

All units are shipped with body covers.



For modular combinations, one side has groove and the mating side is flat. Use the o-ring seal provided in the groove. For some modular combinations, both surfaces may have grooves. In those applications, use o-ring in one groove and square seal provided in the other.

Port Block Kits

	3/4"	1"	1-1/2"

Individual Filters, Individual Regulators and 2-Piece Filter and Regulator Assemblies:

NPT P3NKB96CP .....P3NKB98CP P3NKB9BCP

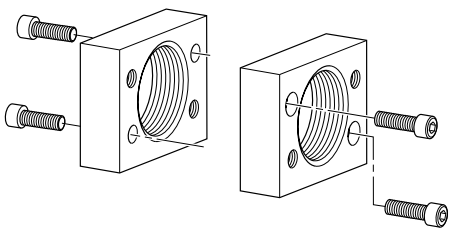
2 and 3 Piece Combinations including a Lubricator (FR/L & FRL), Individual Lubricators, Individual Coalescing Filters and 2-Piece Filter and Coalescer Assemblies:

NPT P3NKB96CL .....P3NKB98CL.....P3NKB9BCL

Port Block Kits allow units to be installed or removed as modular components.

Each Kit includes all the necessary pieces to make two port connections.

* 3/4, 1 & 1-1/2 inch meet ISO 1179-1 Standard.



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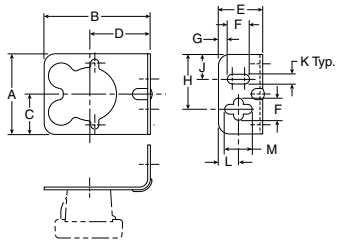
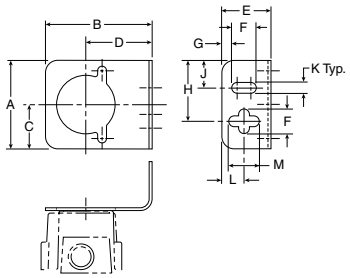
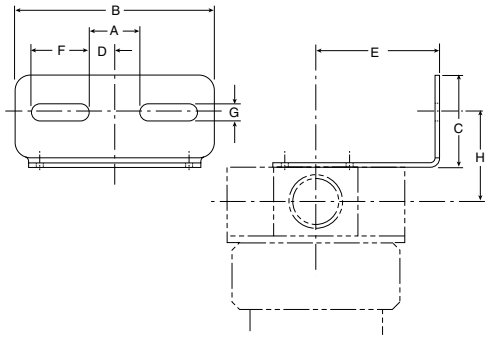
Mounting Bracket Kits



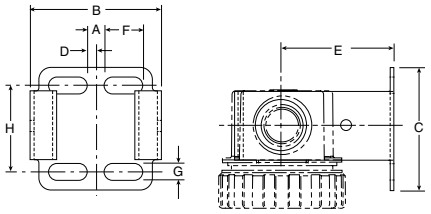
PS417BP
(Includes Panel Mount Nut)



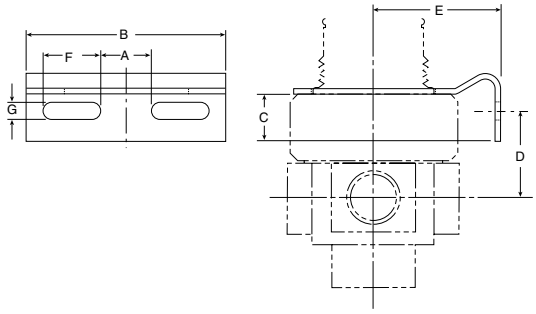
PS419
(Includes Panel Mount Nut)



PS743P, PS843P

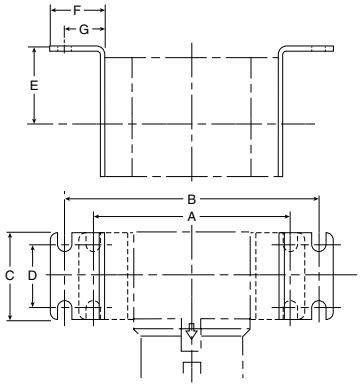


PS943P



PS707P & PS807P
(Includes Panel Mount Nut)

PS963P
(Includes Aluminum Panel Mount Nut)



P3NKA00MW

Dimensions

A	B	C	D	E	F	G	H	J	K	L	M	Kit
1.80 (46)	2.37 (60)	0.90 (23)	1.35 (34)	1.00 (25)	0.50 (13)	0.20 (5)	1.24 (31)	0.56 (14)	0.22 (6)	0.45 (11)	0.62 (16)	**PS417BP** (10F, 14F, P3A, 14R, 14E)
1.80 (46)	2.17 (55)	0.90 (23)	1.35 (34)	1.00 (25)	0.50 (13)	0.20 (5)	1.24 (31)	0.56 (14)	0.22 (6)	0.45 (11)	0.62 (16)	**PS419** (04L)
0.84 (21)	3.25 (83)	1.50 (38)	0.42 (11)	2.00 (51)	0.94 (24)	0.28 (7)	1.44 (37)	—	—	—	—	**PS743P** (06F, 11F, 16L)
1.00 (25)	3.94 (100)	1.57 (40)	0.50 (13)	2.19 (56)	1.25 (32)	0.28 (7)	1.68 (43)	—	—	—	—	**PS843P** (07F, 12F, 17L)
0.28 (7)	2.12 (54)	2.00 (51)	0.14 (4)	1.85 (47)	0.63 (16)	0.28 (7)	1.41 (36)	—	—	—	—	**PS943P** (05F, 15F, 15L)
0.84 (21)	2.59 (66)	0.49 (12)	1.02 (26)	1.85 (47)	0.61 (15)	0.28 (7)	—	—	—	—	—	**PS963P** (05R, 10R, 05E, 27E)
0.84 (21)	3.26 (83)	0.77 (20)	1.46 (37)	2.00 (51)	0.94 (24)	0.28 (7)	—	—	—	—	—	**PS707P** (06R, 06E, 11R)
1.00 (25)	3.94 (100)	0.65 (17)	1.68 (43)	2.19 (56)	1.25 (32)	0.28 (7)	—	—	—	—	—	**PS807P** (07R, 07E, 12R)
6.22 (158)	8.19 (208)	2.75 (70)	1.97 (50)	2.36 (60)	1.77 (45)	1.30 (33)	—	—	—	—	—	**P3NKA00MW** (P3NF, P3NR, P3NE, P3NL)

inches (mm)

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Other Products from Parker Hannifin

International H-Series Compressed Air and Gas Filters
(Bulletin 1300-993C/USA)

Finite's H-Series compressed air filters are the most widely used filter. Our standard grade 6 element captures 99.97% of particulate, oil, and water contamination.

- Coalescing, particulate, and adsorption elements
- Pressures to 500 PSIG
- Connections from 1/4" to 3" NPT, BSPF & BSPT
- Flows from 10 to 1600 SCFM

Par-Fit™ Conversion Elements
(Bulletin 1300-500-1/USA)

- Coalescing, particulate and adsorption elements
- Offer UNI-CAST Finite advantage
- Over 2500 interchanges available

ASME Coded Vessels
(Bulletin 1300-400/USA)

- Coalescing, particulate and adsorption
- Pressures to 185 PSIG
- Connections from 3" NPT to 16" flange
- Flows up to 37,000 SCFM
- Custom designs available

Stainless Steel Filters
(Bulletin 1300-625/USA)

- Used in the most demanding environments
- Pressures to 250 PSIG
- Connections from 3/4" to 1" NPT
- Flows up to 170 SCFM

Water Separators
(Bulletin 1300-925/USA)

- Remove bulk water from your application
- Connections from 1/4" to 3" NPT
- Pressures to 230 PSIG

Vacuum Exhaust Filters
(Bulletin 1300-310/USA)

- Eliminate 99.9% of oil mist and smoke from vacuum pump exhaust
- Easily adapts to most vacuum pumps
- Flows up to 200 SCFM

Instrumentation & Gas Sampling Filters
(Bulletin 1300-694/USA)

- Stainless steel, aluminum & plastic housings
- Clear bowls available
- Connections from 1/8" to 2" NPT
- Pressures to 5000 PSIG

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Other Products from Parker Hannifin

Dual-Stage BA-Series
(Bulletin 1300-905/USA)

- Coalescer/adsorber combination unit
- Pressures to 500 PSIG
- Connections from 1/4" to 1" NPT
- Flows up to 75 SCFM

FDD Desiccant Dryers
(Bulletin 1300-850/USA)

- For point-of-use and OEM applications
- Pressure dewpoints down to -40° F
- Connections from 1/4" to 1" NPT
- Ideal for intermittent flows

Membrane Dryers
(Bulletin 1300-800/USA)

- Compressed air hollow fiber membrane dryers
- Pressure dewpoints down to -40° F
- Connections from 1/4" to 1/2" NPT
- Flows up to 40 SCFM

Accessories
(Bulletin 1300-150/USA)

- Differential pressure gauges
- Float, solenoid, and zero-air-loss drains
- Mounting brackets and adapter kits

High Pressure Stainless Steel Filters, SJ-Series
(Bulletin 1300-997/USA)

- Compatible with high pressure specialty gases
- Pressures to 6000 PSIG
- Stainless steel
- Variety of filter elements available

High Pressure Filters, J-Series
(Bulletin 1300-997/USA)

- CNG, alternative fuel and breathing air filters
- Pressures to 5000 PSIG
- Ductile iron and nodular cast iron
- Coalescing, particulate and adsorption filter elements available

Medium Pressure Filters, M-Series
(Bulletin 1300-997/USA)

- Pressures to 800 PSIG
- Connections from 1/2" to 2" NPT, BSPT & BSPF
- Use with specialty gases
- Variety of filter elements available

High Pressure Drains
(Bulletin 1300-997/USA)

- Safely drain condensate under pressure
- Pressures to 6000 PSIG
- Directly connect to J-Series and SJ-Series
- Horizontal or vertical mounting

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Notes

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2. Payment: Payment shall be made by Buyer within 30 days from the date of shipment. Amounts not timely paid shall bear interest at the Maximum rate permitted by law for each month or portion thereof that the Buyer is late making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

3. Delivery: Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

4. Warranty: Seller warrants that the items sold hereunder shall be free from defects in material or workmanship for a period of 18 months from date of shipment to Buyer. THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED.

NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.

5. Limitation of Remedy: SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS CONTRACT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF ITEMS SOLD OR REFUND OF THE PURCHASE PRICE PAID BY BUYER, AT SELLER'S SOLE OPTION. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ITEMS SOLD HEREUNDER, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY.

6. Changes, Reschedules and Cancellations: Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.

7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. Buyer's Property: Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets (hereinafter 'Intellectual Property Rights'). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.

11. Force Majeure: Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter 'Events of Force Majeure'). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's Control.

12. Entire Agreement/Governing Law: The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.

Parker Hannifin Corporation
Finite Filter Operation
Oxford, MI
www.parker.com/finitefilter

Worldwide Manufacturing Locations

North America

Engine Filtration

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Modesto, CA 95354
phone 209 521 7860
fax 209 529 3278
www.parker.com/racor

Parker Hannifin Corporation
Racor Division
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Holly Springs, MS 38635
phone 662 252 2656
fax 662 274 2118
www.parker.com/racor

Parker Hannifin Corporation
Racor Division
302 Parker Drive
Beaufort, SC 29906
phone 843 846 3200
fax 843 846 3230
www.parker.com/racor

Compressed Air Treatment

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Filtration and Separation
Balston Operation
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Haverhill, MA 01835-0723
phone 978 858 0505
fax 978 858 0625
www.parker.com/balston

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Airtek Division
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Lancaster, NY 14086
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fax 716 685 1010
www.airtek.com

Hydraulic Filtration

Parker Hannifin Corporation
Hydraulic Filter Division
16810 Fulton County Road #2
Metamora, OH 43540-9714
phone 419 644 4311
fax 419 644 6205
www.parker.com/hydraulicfilter

Process Filtration

Parker Hannifin Corporation
Process Advanced Filtration
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Oxnard, CA 93030
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