Parker Pneumatic

Prep-Air® II

Air Preparation Units

A

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Section A

Bold text part numbers are standard.
Standard text part numbers may have longer lead times.

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⚠ CAUTION:

Polycarbonate bowls, 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 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 BOWLS 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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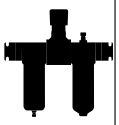
Product Selection Chart

Series	14	P3A	05	06	07	P3N	PF 602 PL 606	27	12	09	3550
Port Size	1/8, 1/4	1/8, 1/4	1/4, 3/8	1/4, 3/8, 1/2	3/8, 1/2, 3/4	3/4 1, 1-1/2	1, 1-1/4, 1-1/2	1/4, 3/8	3/8, 1/2, 3/4	2	1/4
Filter											
Coalescing Style Filter											
Regulator											
Pilot Controlled Regulator											
Mist Lubricator											
Micro-Mist Lubricator											
Filter / Regulator											
Filter / Regulator / Lubricator Combination											
Precision Regulator											

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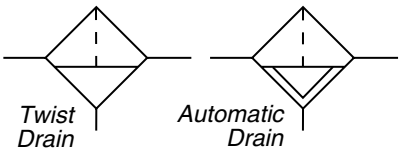
Filters



- Pipe Sizes 1/8 thru 2 Inch
- Flows to 1000 SCFM
- Pressures to 250 PSIG

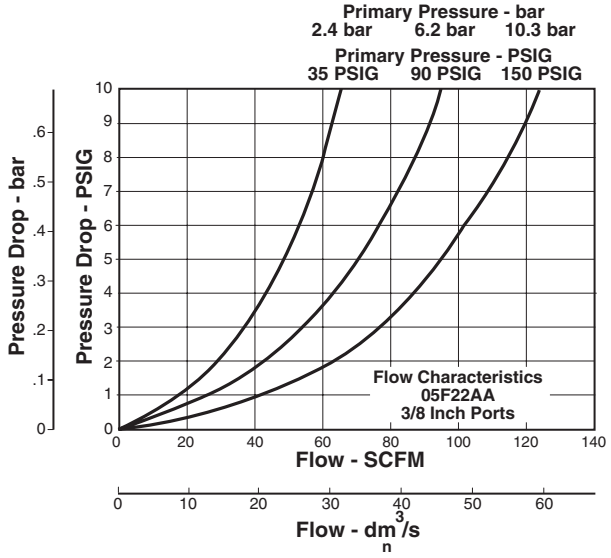
Air filters are designed to remove airborne solid contaminants, pipe scale, rust, pipe dope, etc., which may plug small orifices or cause excessive wear and premature failure of pneumatic components.

- Miniature 14F Series, 1/8 and 1/4 Inch
- Miniature P3A-FA Series, 1/8 and 1/4 Inch
- Economy 05F Series, 1/4 and 3/8 Inch
- Compact 06F Series, 1/4, 3/8 and 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
- Hi-Flow PF602 Series, 1, 1-1/4 and 1-1/2 Inch
- Hi-Flow 09F Series, 2 Inch

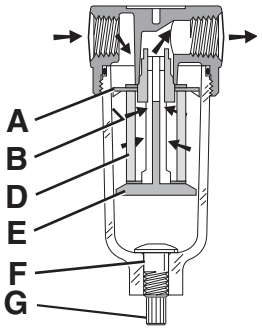
Filter Selection

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



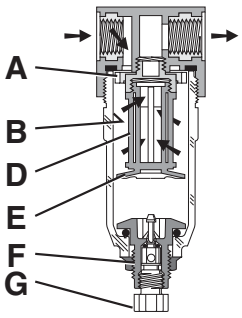
Once the required flow is determined for a pneumatic application, the filter can be selected by using the flow chart. To read the filter flow chart, first determine the inlet pressure that will be used. Find the appropriate pressure curve on the graph. Each graph will contain three pressure curves. If 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.



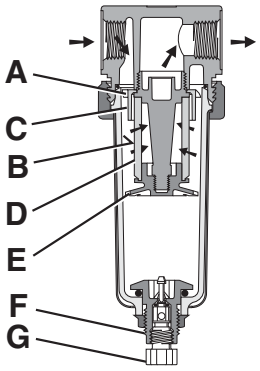
14F

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.



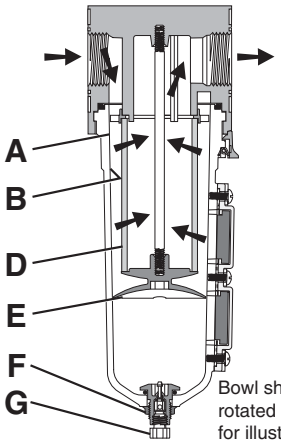
P3AF



05F

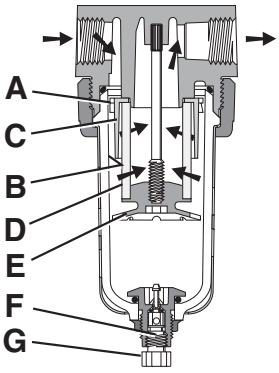
Second Stage Filtration:

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. On the 09 Series, unscrew the drain valve **(F)** slightly until the liquid begins to drain.

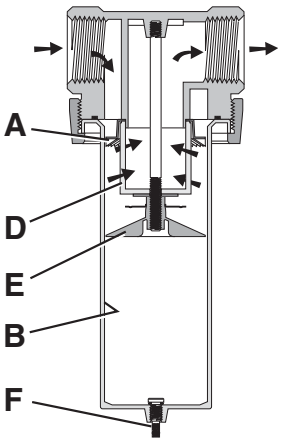


Bowl shown rotated 90˚ for illustration purposes

P3NF

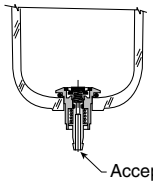


06F / 07F



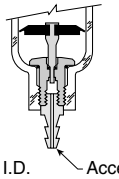
PF602

Semi Automatic Drain



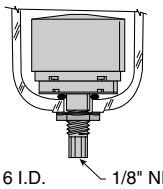
(Overnight Drain)
This drain offers a semi-automatic function when there is a differential pressure in the filter which occurs when system pressure is shut off. The drain can also be used manually by gripping it with your fingertips and pushing upward.

Automatic Pulse Drain

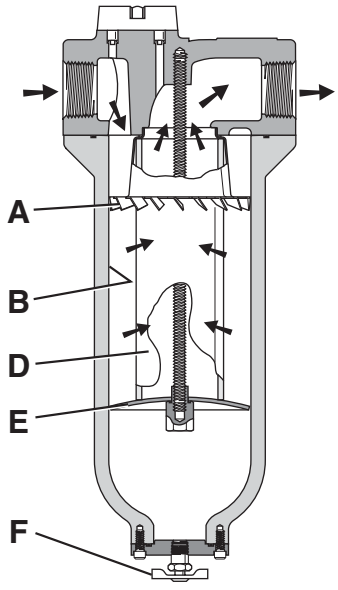


(Spitter Drain)
The diaphragm in this drain pulses when there is a pressure differential such as a valve cycling or cylinder stroking downstream. This action flexes the diaphragm and allows the filter to drain the entrapped water.

Automatic Float Drain

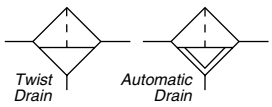


The float internal to this drain rises with increased liquid level. When the float rises, it opens a seat area allowing the trapped liquids to drain through the bottom.
A manual override can be pushed in the bottom of the drain to unseat the float if particulates create a block.



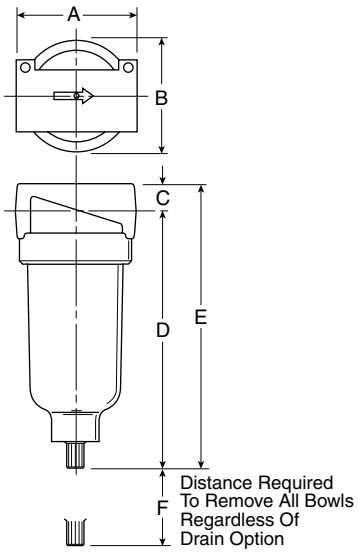
09F

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.
- High Flow: 1/8" – 22 SCFM §
  1/4" – 24 SCFM §



Port Size	NPT		BSPP	
	Twist Drain	Automatic Pulse Drain	Twist Drain	Automatic Pulse Drain
Poly Bowl ‡				
1/8"	**14F01BB**	**14F05BB**	14F01BB1	14F05BB1
1/4"	**14F11BB**	**14F15BB**	14F11BB1	14F15BB1
Metal Bowl without Sight Gauge				
1/8"	**14F03BB**	**14F07BB**	14F03BB1	14F07BB1
1/4"	**14F13BB**	**14F17BB**	14F13BB1	14F17BB1

Standard part numbers shown, for other models refer to ordering information below.

‡ 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	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
- A. 40 Micron
- **B. 5 Micron**
- Z. Adsorber

Engineering Level
- **B. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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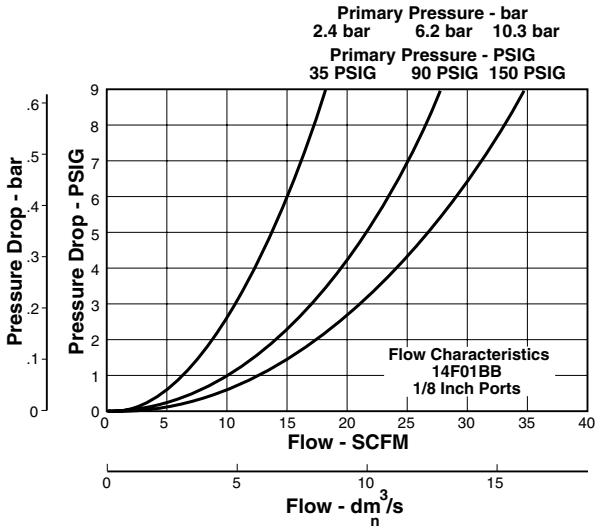

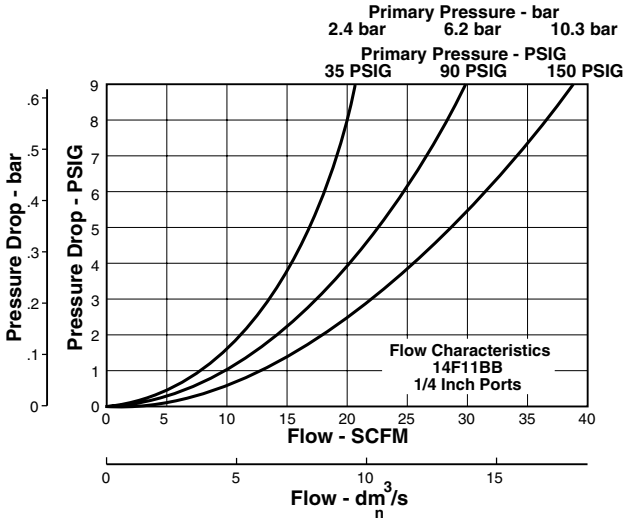

14F Filter Kits & Accessories

Bowl Kits –
- Poly Bowl – Automatic Pulse Drain PS408P
- Twist Drain PS404P
- Metal Bowl – Automatic Pulse Drain PS451P
- Twist Drain PS447BP

Filter Element Kits –
- 40 Micron PS401P
- 5 Micron PS403P
- 5 Micron Cartridge Kit PS407P
- Adsorber PS452P

Mounting Bracket Kit PS417BP

Specifications

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 ..... .41 lb. (.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
40 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal
Seals ..... Nitrile

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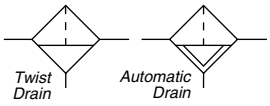
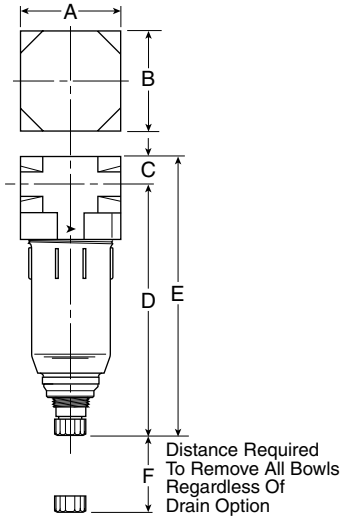
P3A-F Filters – Miniature



Features

- Lightweight Plastic Body
- Excellent water removal efficiency.
- Unique deflector plate that creates swirling of the air stream ensuring maximum water and dirt separation.
- 5 micron element standard.
- Fingertip operated drain.
- Easily disassembled for servicing without the use of tools.
- High Flow: 1/4" – 34 SCFM§



Port Size	NPT	
	Twist Drain	Auto Pulse Drain
1/8"	**P3A-FA91BENP**	**P3A-FA91CENP**
1/4"	**P3A-FA92BENP**	**P3A-FA92CENP**

Standard part numbers shown.

‡ For polycarbonate bowl see Caution on page 2.

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

Filter Dimensions			
A	**B**	**C**	**D**
1.57 (40)	1.57 (40)	.43 (11)	3.98 (101)
D†	**E**	**E†**	**F**
3.70 (94)	4.41 (112)	4.13 (105)	2.00 (51)

Inches (mm)

† With Automatic Pulse Drain

Ordering Information

P3A-FA	9	1	B	E	N	P

Port Type	Port Size	Bowl / Drain	Element	Options	Bowl Material
9. NPT Female	1. 1/8 Inch 2. 1/4 Inch	Polycarbonate Bowl B. Twist Drain C. Auto Pulse Drain	E. 5 Micron	N. None	P. Polycarbonate

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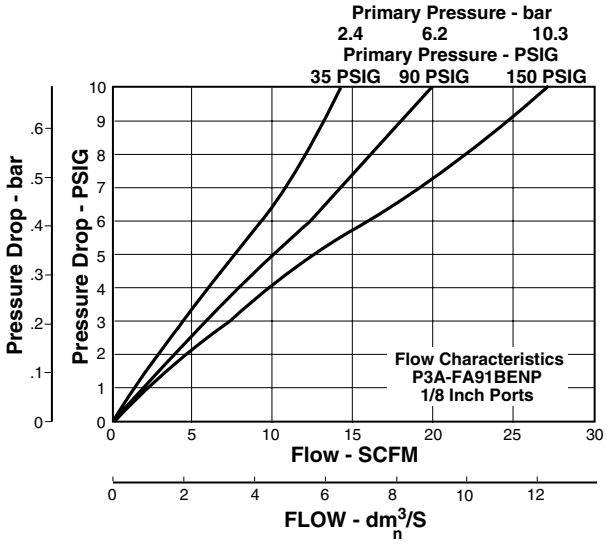

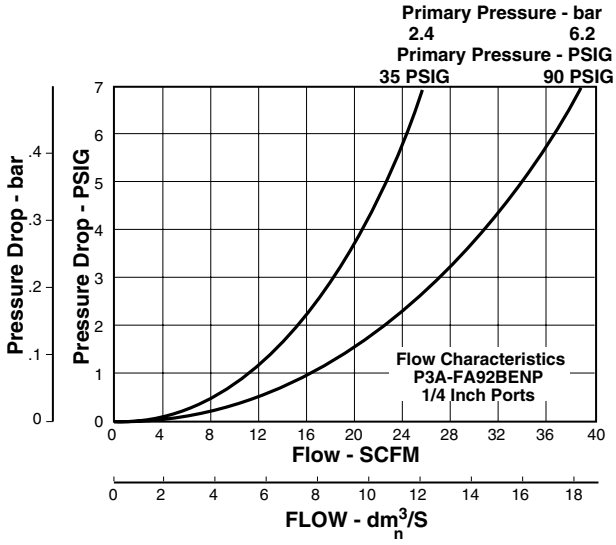

Filter Kits and Accessories

Elements –
5 Micron Element P3A-KA00EEN
Plastic Bowls –
Bowl with Manual Drain P3A-KA00BBP
Bowl with Auto Pulse Drain P3A-KA00BCP
Service Kit P3A-KA00RFN
Wall Mount Kit P3A-KA00CFN

Specifications

Bowl Capacity ..... 0.9 Ounces
Sump Capacity ..... 0.24 ounces
Port Threads ..... 1/8 & 1/4 Inch

Operating Pressure Range	**PSIG**	**bar**	**kPa**
Maximum	120	8.3	828

Operating Temperature Range ..... 32°F to 125°F (0°C to 52°C)
Weight ..... 0.18 lb. (0.08 kg.)

Materials of Construction

Body ..... Plastic
Bowl ..... Transparent Polycarbonate
Deflector ..... Plastic
Drains – Twist Drain –
Body & Stem ..... Plastic
Seals ..... Nitrile
Auto (Pulse) –
Piston & Seals ..... Nitrile
Stem, Seat, Adaptor & Washers ..... Aluminum
Filter Element & Baffle –
Standard 5 Micron ..... Nylon & Plastic
Port Inserts ..... Brass
Seals ..... Nitrile

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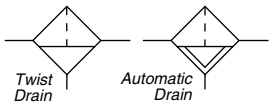
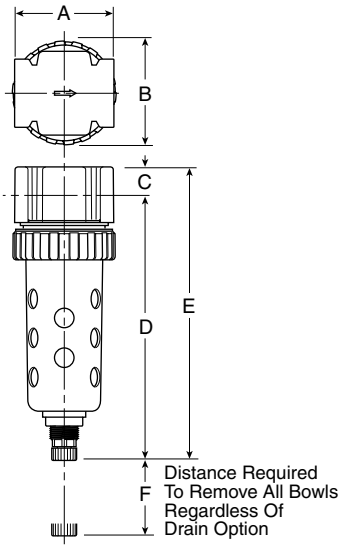
05F Filters – Economy



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.
- 40 micron filter element standard, 5 micron and adsorber available.
- High Flow: 1/4" – 54 SCFM§
  3/8" – 70 SCFM§



Port Size	NPT		BSPP	
	Twist Drain	Automatic Pulse Drain	Twist Drain	Automatic Pulse Drain
Poly Bowl‡ / Metal Guard				
1/4"	**05F12AA**	**05F1PAA**	05F12AA1	05F1PAA1
3/8"	**05F22AA**	**05F2PAA**	05F22AA1	05F2PAA1
Metal Bowl / Sight Gauge				
1/4"	**05F14AA**	**05F1TAA**	05F14AA1	05F1TAA1
3/8"	**05F24AA**	**05F2TAA**	05F24AA1	05F2TAA1

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

Standard part numbers shown, for other models refer to ordering information below.
‡ For polycarbonate bowl see Caution on page 2.
§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

Ordering Information

05F	1	2	A	A	—	—

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
N. Auto Pulse Drain	R. Auto Pulse Drain
P. Metal Bowl Guard / Auto Pulse Drain	**T. Sight Gauge / Auto Pulse Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
A. 40 Micron
B. 5 Micron
Z. Adsorber

Engineering Level
A. Current

Port Type
Blank. NPT
1. BSPP
2. BSPT

Options
Blank. No Options
P. With Differential Pressure Indicator
V.* Fluorocarbon

* Fluorocarbon available with metal bowl, twist drain only.

NOTE: BOLD OPTIONS ARE STANDARD.

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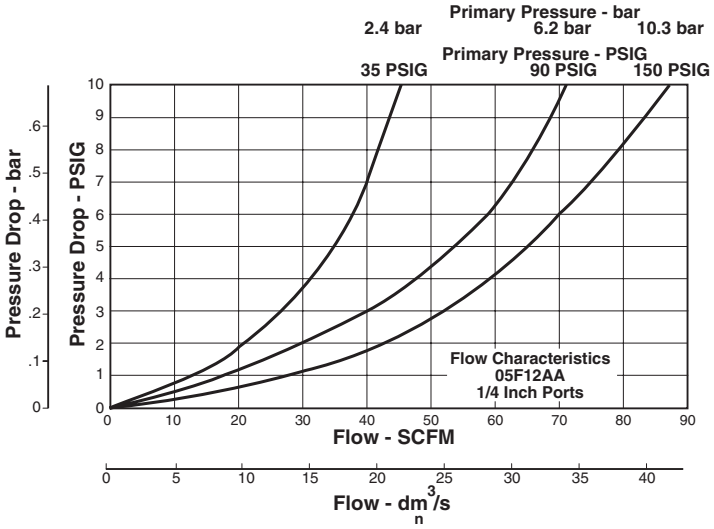
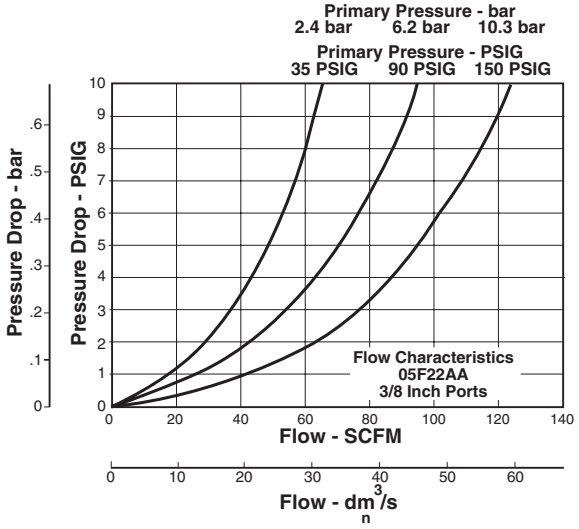




05F Filter Kits & Accessories

Bowl Guard Kit PS905P

Bowl Kits –

Poly Bowl – Automatic Pulse Drain PS995P
Semi-Auto Drain PS992P
Twist Drain PS932P
Push 'N' Drain PS904P

Metal Bowl – Automatic Pulse Drain PS997P
Semi-Auto Drain PS994P
Twist Drain PS934P
Twist Drain (Fluorocarbon) PS934VP
Push 'N' Drain PS925P
Sight Gauge / Automatic Pulse Drain PS996P
Sight Gauge / Semi-Auto Drain PS993P
Sight Gauge / Twist Drain PS935P
Sight Gauge / Twist Drain (Fluorocarbon) ... PS935VP
Sight Gauge / Push 'N' Drain PS906P

DPI Replacement Kit PS781P

Drain Kit – Automatic Pulse Drain PS998P
Semi-Auto Drain PS511P
Twist Drain PS512P
Twist Drain (Fluorocarbon) PS512VP
Push 'N' Drain PS513P

Filter Element Kits – 40 Micron PS901P
5 Micron PS902P
Adsorber PS931P

Mounting Bracket Kit PS943P

Sight Gauge Kit PS914P

Specifications

Bowl Capacity ..... 2.0 Ounces

Sump Capacity ..... .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)
at 125°F (52°C) or less

Weight ..... 1.2 lb. (.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

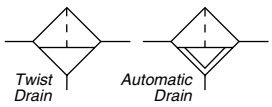
Drain ..... Plastic

Filter Elements – 40 Micron (Standard) ..... Plastic
5 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal

Seals ..... Nitrile

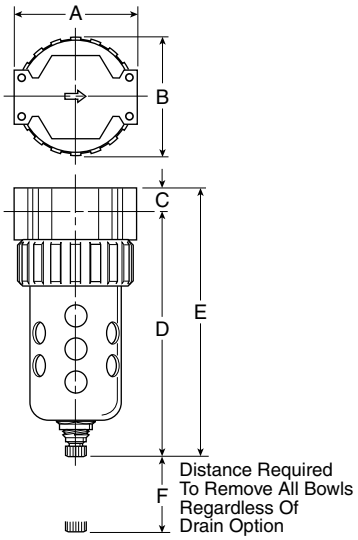
Sight Gauge, DPI ..... Polyamide (Nylon)

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 Push 'N' Drain requires only fingertip touch to drain. Optional automatic float drain available.
- Shown with recommended metal bowl guard.
- High Flow: 1/4" – 53 SCFM§
  3/8" – 80 SCFM§
  1/2" – 85 SCFM§



A Index

Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Poly Bowl‡ / Metal Guard				
1/4"	**06F12AC**	**06F16AC**	06F12AC1	06F16AC1
3/8"	**06F22AC**	**06F26AC**	06F22AC1	06F26AC1
1/2"	**06F32AC**	**06F36AC**	06F32AC1	06F36AC1
Metal Bowl / Sight Gauge				
1/4"	**06F14AC**	**06F18AC**	06F14AC1	06F18AC1
3/8"	**06F24AC**	**06F28AC**	06F24AC1	06F28AC1
1/2"	**06F34AC**	**06F38AC**	06F34AC1	06F38AC1

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

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see Caution on page 2.

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

Ordering Information

06F	1	2	A	C	—	—

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
5. Auto Float Drain	7. Auto Float Drain
6. Metal Bowl Guard / Auto Float Drain	**8. Sight Gauge / Auto Float Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
- **A. 40 Micron**
- B. 5 Micron
- Z. Adsorber

Engineering Level
- **C. Current**

Options
- **Blank. None**
- P. Differential Pressure Indicator

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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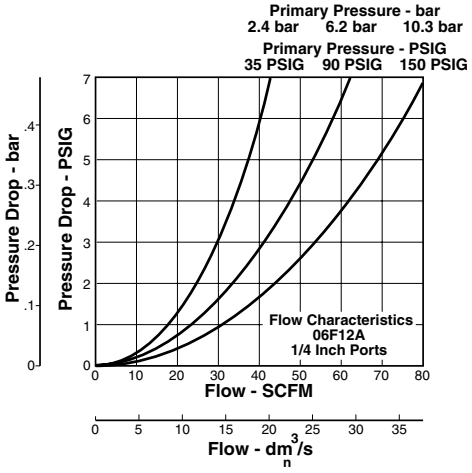

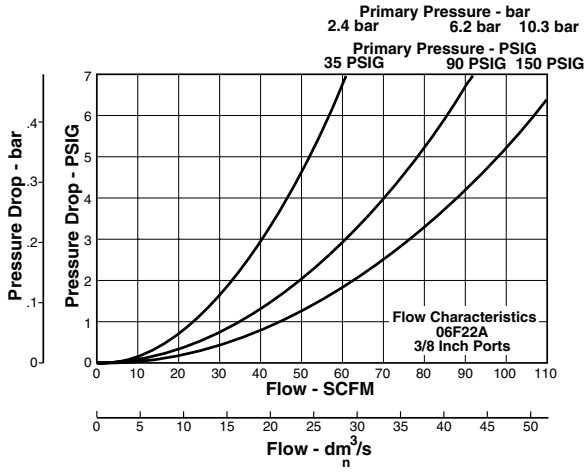

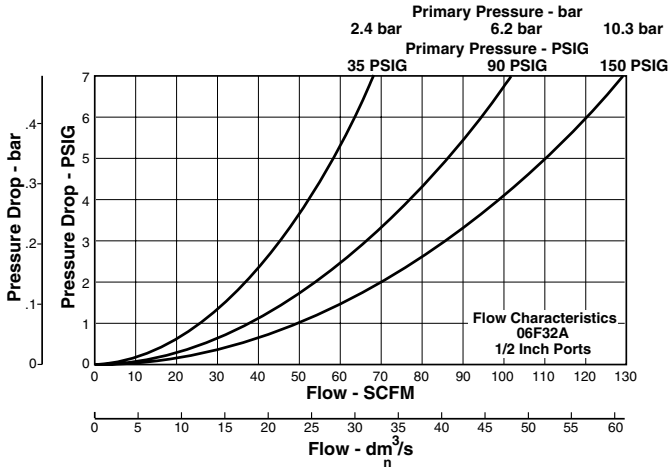

06F Filter Kits & Accessories

Bowl Guard Kit PS705P

Bowl Kits –

Poly Bowl –	Automatic Float Drain	PS722P
	Semi-Auto Drain	PS792P
	Twist Drain	PS732P
	Push 'N' Drain	PS704P
Metal Bowl –	Automatic Float Drain	PS726P
	Semi-Auto Drain	PS794P
	Twist Drain	PS734P
	Push 'N' Drain	PS725P
	Sight Gauge / Automatic Float Drain	PS723P
	Sight Gauge / Semi-Auto Drain	PS793P
	Sight Gauge / Twist Drain	PS735P
	Sight Gauge / Push 'N' Drain	PS706P

DPI Replacement Kit PS781P

Drain Kits –

Automatic Float Drain	PS506P
Semi-Auto Drain	PS511P
Twist Drain	PS512P
Push 'N' Drain	PS513P

Filter Element Kits –

40 Micron	PS701P
5 Micron	PS702P
Adsorber	PS731P

Mounting Bracket Kit PS743P

Sight Gauge Kit PS714P

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 – 10 to 250 PSIG (0.7 to 17.2 bar)
at 125°F (52°C) or less

Weight ..... 1.4 lb. (.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

Push 'N' Drain – Body ..... Nitrile

Stem ..... Brass

Automatic Float Drain – Housing, Float ..... Plastic

Seals ..... Nitrile

Springs, Push Rod ..... Stainless Steel

Filter Elements – 40 Micron (Standard) ..... Plastic

5 Micron (Optional) ..... Plastic

Adsorber (Optional) ..... Activated Charcoal

Seals ..... Nitrile

Sight Gauge ..... Polyamide

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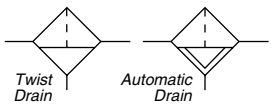
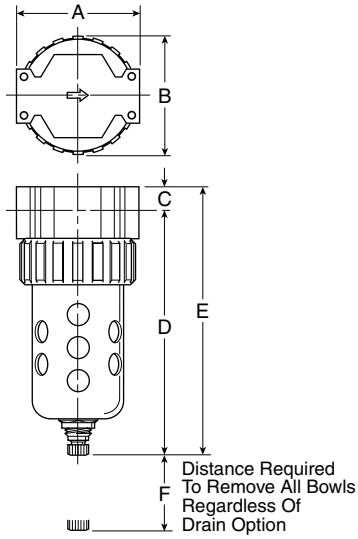
07F Filters – Standard



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 Push 'N' Drain requires only fingertip touch to drain. Optional automatic float drain available.
- Shown with recommended metal bowl guard.
- High Flow: 3/8" – 100 SCFM §
  1/2" – 130 SCFM §
  3/4" – 145 SCFM §



Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Poly Bowl ‡ / Metal Guard				
3/8"	**07F22AC**	**07F26AC**	07F22AC1	07F26AC1
1/2"	**07F32AC**	**07F36AC**	07F32AC1	07F36AC1
3/4"	**07F42AC**	**07F46AC**	07F42AC1	07F46AC1
Metal Bowl / Sight Gauge				
3/8"	**07F24AC**	**07F28AC**	07F24AC1	07F28AC1
1/2"	**07F34AC**	**07F38AC**	07F34AC1	07F38AC1
3/4"	**07F44AC**	**07F48AC**	07F44AC1	07F48AC1

Standard part numbers shown, for other models refer to ordering information below.

‡ 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	A	C	—	—

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
5. Auto Float Drain	7. Auto Float Drain
6. Metal Bowl Guard / Auto Float Drain	**8. Sight Gauge / Auto Float Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
- **A. 40 Micron**
- B. 5 Micron
- Z. Adsorber

Engineering Level
- **C. Current**

Options
- **Blank. None**
- P. Differential Pressure Indicator

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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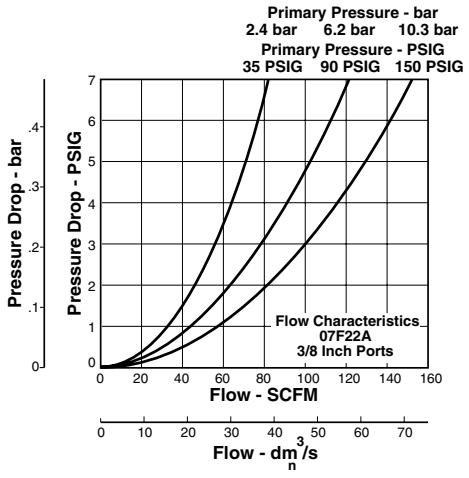

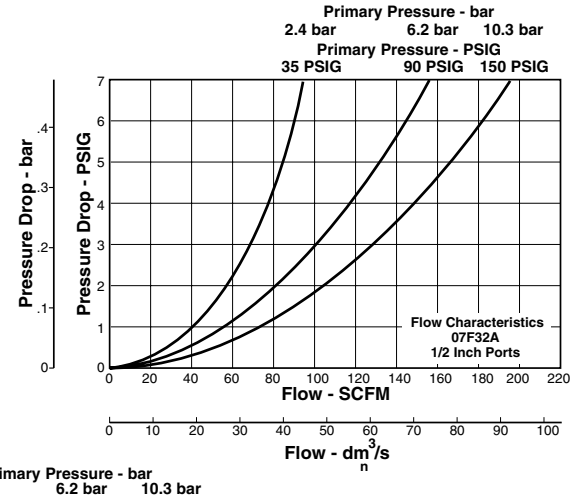

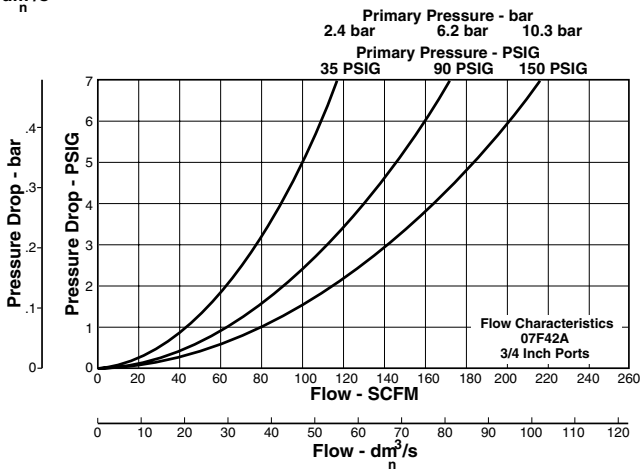

07F Filter Kits & Accessories

Bowl Guard Kit PS805P

Bowl Kits –

Poly Bowl – Automatic Float Drain PS822P
Semi-Auto Drain PS892P
Twist Drain PS832P
Push 'N' Drain PS804P

Metal Bowl – Automatic Float Drain PS826P
Semi-Auto Drain PS894P
Twist Drain PS834P
Push 'N' Drain PS825P
Sight Gauge / Automatic Drain PS823P
Sight Gauge / Semi-Auto Drain PS893P
Sight Gauge / Twist Drain PS835P
Sight Gauge / Push 'N' Drain PS806P

DPI Replacement Kit PS781P

Drain Kits – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P

Filter Element Kits – 40 Micron PS801P
5 Micron PS802P
Adsorber PS831P

Mounting Bracket Kit PS843P

Sight Gauge Kit PS814P

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 – 10 to 250 PSIG (0.7 to 17.2 bar)
at 125°F (52°C) or less

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
Push 'N' Drain – Body ..... Nitrile
Stem ..... Brass
Automatic Float Drain – Housing, Float ..... Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Filter Elements – 40 Micron (Standard) ..... Plastic
5 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal
Seals ..... Nitrile
Sight Gauge ..... Polyamide

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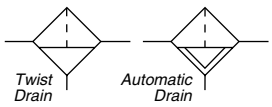
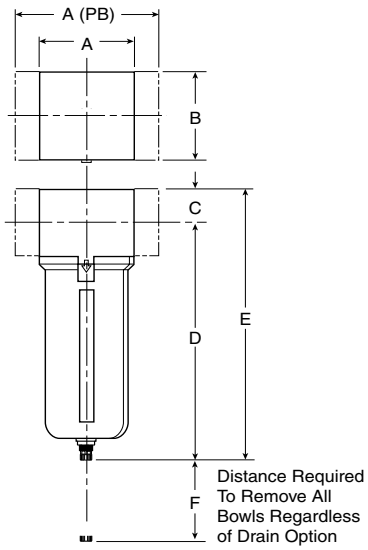
P3NF Filters – Hi-Flow



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		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Metal Bowl / Sight Gauge				
3/4"	**P3NFA96GSM**	**P3NFA96GSA**	P3NFA16GSM	P3NFA16GSA
1"	**P3NFA98GSM**	**P3NFA98GSA**	P3NFA18GSM	P3NFA18GSA
1-1/2" #	**P3NFA9PGSM**	**P3NFA9PGSA**	P3NFA1PGSM	P3NFA1PGSA

Standard part numbers shown, for other models refer to ordering information below.

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	G	S	M

Design Level

Port Type
1. G Thread (BSPP) Female
2. Rc Thread (BSPT) Female
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)

Element
w/o DPI Indicator
A. Adsorber
E. 5 Micron
G. 40 Micron
w/ DPI Indicator
B. Adsorber
F. 5 Micron
H. 40 Micron

Bowl
S. Metal Bowl w/ Sight Gauge

Drain
M. Twist Drain
A. Automatic Float Drain
P. Push 'N' Drain
S. Semi-Auto Drain

NOTE: BOLD OPTIONS ARE STANDARD.

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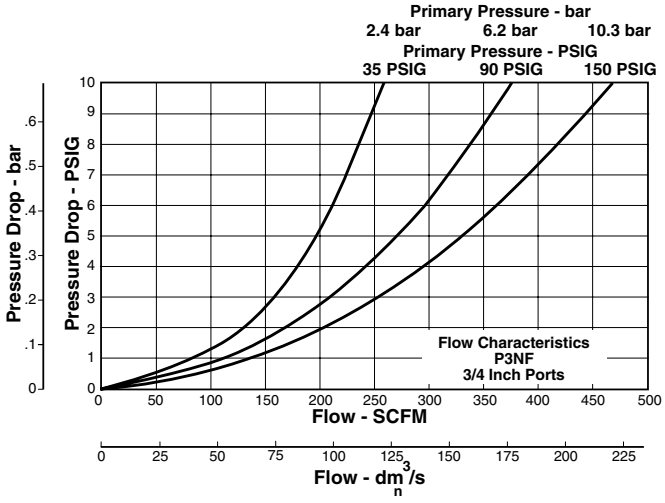

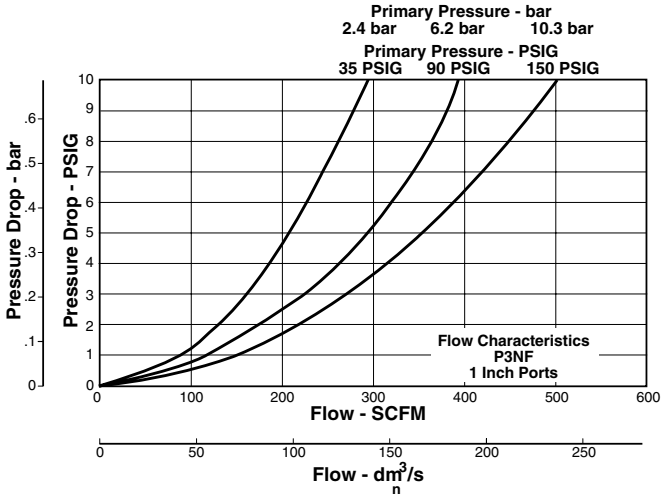

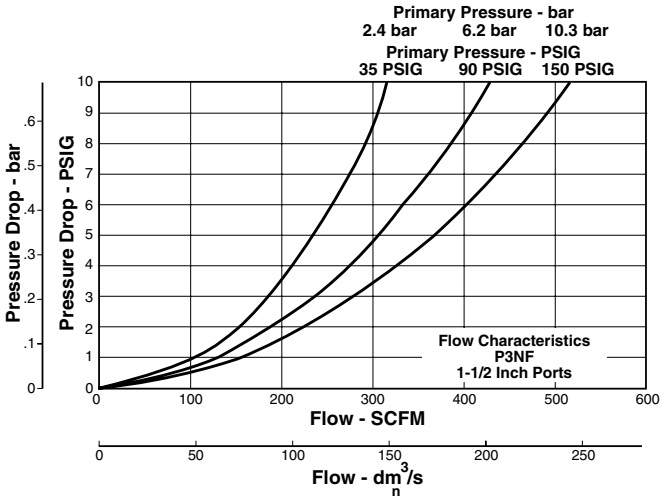

P3NF Filter Kits & Accessories

Bowl Kits –
Metal Bowl – Sight Gauge / Automatic Float Drain . P3NKA00BSA
Sight Gauge / Twist Drain P3NKA00BSM
Sight Gauge / Push 'N' Drain P3NKA00BSP

Bowl Latch Kit C11A33

DPI Replacement Kit PS781P

Drain Kit – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P

Filter Elements – 40 Micron P3NKA00ESG
5 Micron P3NKA00ESE
Adsorber P3NKA00ESA

Mounting Bracket Kit* P3NKA00MW

Sight Gauge Kit P3NKA00PE

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

Specifications

Body ..... Aluminum

Bowl Capacity ..... 18.0 Ounces

Sump Capacity ..... 6.8 Ounces

Deflector ..... Plastic

Drain ..... Plastic

Filter Elements –
40 Micron (Standard) ..... Plastic
5 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal

Pressure & Temperature Rating – 0 to 250 PSIG (0 to 17 bar)
32°F to 175°F (0°C to 80°C)
Automatic Float Drain – 10 to 250 PSIG (0.7 to 17 bar)
at 125°F (52°C) or less

Seals ..... Nitrile

Sight Gauge ..... Polyamide (Nylon)

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)

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

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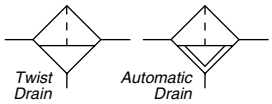
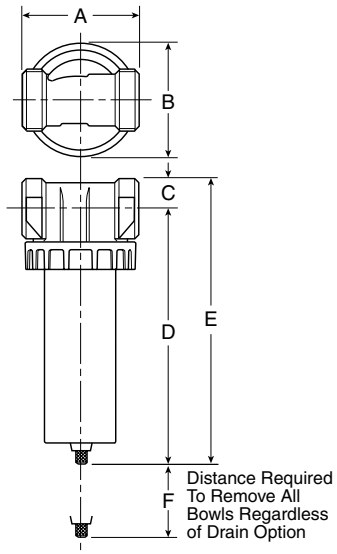
PF602 Filters – Hi-Flow



Features

- Excellent water removal efficiency.
- 32 oz. Metal bowl.
- Large filter element surface guarantees low pressure drop and increased element life.
- Twist Drain as standard, optional auto drain.
- High Flow: 1" – 350 SCFM§
  1-1/4" – 380 SCFM§
  1-1/2" – 380 SCFM§



Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Metal Bowl				
1"	**PF602-08EJ**	**PF602-08EJR**	PF602G08EJ	PF602G08EJR
1-1/4"	**PF602-10EJ**	**PF602-10EJR**	PF602G10EJ	PF602G10EJR
1-1/2"	**PF602-12EJ**	**PF602-12EJR**	PF602G12EJ	PF602G12EJR

Standard part numbers shown, for other models refer to ordering information below.

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

PF602-08 Filter Dimensions		
A 4.56 (116)	**B** 4.97 (126)	**C** .94 (24)
D 10.69 (271)	**E** 11.63 (295)	**F** 3.25 (83)
PF602-10 & PF602-12 Filter Dimensions		
A 5.19 (132)	**B** 4.97 (126)	**C** 1.28 (33)
D 11.13 (283)	**E** 12.41 (315)	**F** 3.25 (83)

Inches (mm)

Ordering Information

PF602	-	08	E	J	—

Port Type	Port Size	Bowl	Element	Drain
- . NPT G. BSPP	**08. 1"** **10. 1-1/4"** **12. 1-1/2"**	**E. Metal Bowl**	**J. 40 Micron** G. 5 Micron	**Blank Twist Drain** R. Automatic Float Drain

NOTE: BOLD OPTIONS ARE STANDARD.

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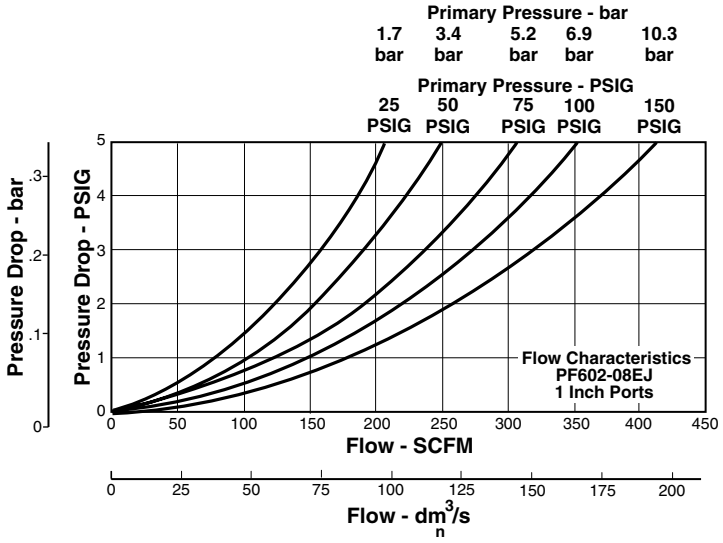

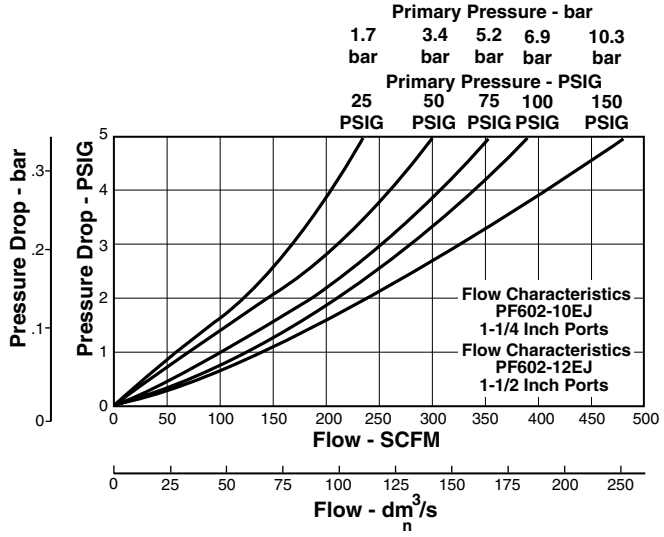

PF602 Filter Kits & Accessories

Bowl PBK603B
Drain Kit – Automatic Drain PSA602MD
Twist Drain PSA600Y7-1
Filter Elements –40 Micron PEK602B
5 Micron PEK602VB
Mounting Bracket Kit (For 1" ported body only) SA200CW57
Repair Kit (Deflector, Baffle & Post)
1" Ported Body PRK602B
1-1/4" & 1-1/2" Ported Body PRK602C

Specifications

Body ..... Zinc
Bowl ..... Aluminum
Bowl Capacity ..... 32 Ounces
Sump Capacity ..... 19 Ounces
Deflector ..... Aluminum
Drain ..... Brass
Filter Elements –
40 Micron (Standard) ..... Polypropylene
5 Micron (Optional) ..... Polypropylene
Pressure & Temperature Ratings –
Manual Drain – 0 to 300 PSIG (0 to 20.7 bar)
32°F to 180°F (0°C to 82°C)
Automatic Float Drain – 15 to 175 PSIG (1 to 12 bar)
32°F to 120°F (0°C to 49°C)
Seals ..... Nitrile
Weight –1" ..... 7 lb. (3.2 kg)
1-1/2" ..... 7.7 lb. (3.5 kg)

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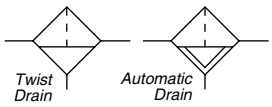
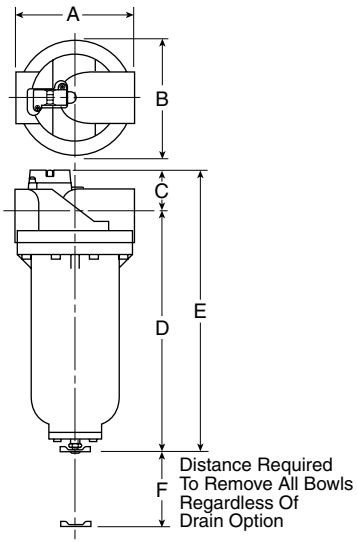
09F Filters – Hi-Flow



Features

- Metal bowl standard.
- 5 micron element.
- Large capacity bowl.
- Standard differential pressure indicator.
- High Flow: 2" – 1000 SCFM§



Port Size	NPT	
	Twist Drain	Automatic Float Drain
2"	**09F83BB**	**09F87BB**

Standard part numbers shown, for other models refer to ordering information below.

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

09F Filter Dimensions		
A	**B**	**C**
7.80 (92)	7.75 (142)	2.83 (92)
D†	**E†**	**F**
16.24 (412)	19.07 (484)	4.92 (125)

Inches (mm)

† With Twist Drain or Automatic Float Drain

Ordering Information

09F	8	3	B	B

Port Size
8. 2 Inch

Bowl Options
3. Metal / Twist Drain
7. Metal / Automatic Float Drain

Elements
B. 5 Micron

Engineering Level
B. Current

NOTE: BOLD OPTIONS ARE STANDARD.

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A

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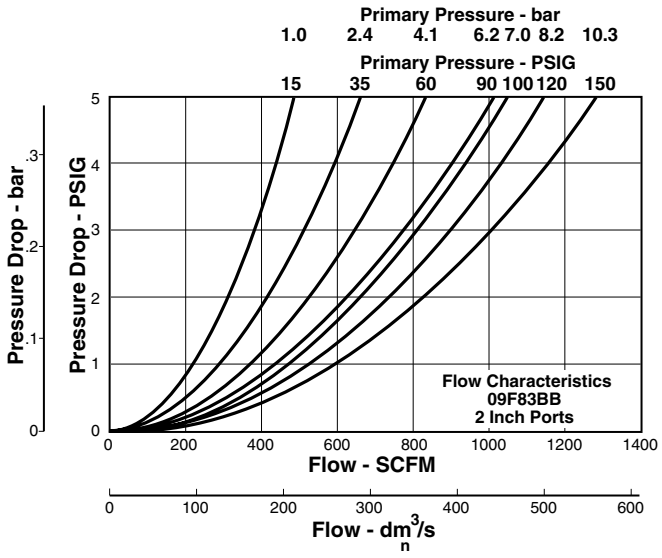
Technical Information



09F Filter Kits & Accessories

Differential Pressure Indicator PS619P
Drain Kits – Automatic Float Drain PS620P
Twist Drain PS625P
Filter Element Kit – 5 Micron Element PS618P

Specifications

Bowl Capacity ..... 117 Ounces
Sump Capacity ..... 12.5 Ounces
Port Threads ..... 2 Inch
Pressure & Temperature Ratings ..... 150 PSIG at 150°F (10.3 bar at 66°C)
Weight ..... 19.3 lb. (8.7 kg)

Materials of Construction

Body ..... Aluminum
Bowls ..... Metal
Deflector ..... Steel
Drains – Twist Drain ..... Brass Petcock
Automatic Float Drain –
Housing, Float ..... Plastic
Seals ..... Buna N
Springs, Push Rod ..... Stainless Steel
Filter Element ..... Plastic
Seals ..... Fluorocarbon

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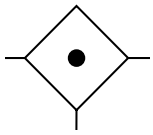
Coalescing Filters



- Pipe Sizes 1/8 thru 3 Inch
- Flows to 1660 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 10F Series, 1/8 and 1/4 Inch
- Miniature P3A-FA Series, 1/8 and 1/4 Inch
- Economy 15F Series, 1/4 and 3/8 Inch
- Compact 11F Series, 1/4, 3/8 and 1/2 Inch
- Standard 12F Series, 3/8, 1/2 and 3/4 Inch
- High Flow P3NF Series, 3/4, 1 and 1-1/2 Inch
- Main Line 30F Series, 1-1/2, 2, 2-1/2 and 3 Inch

Filter Selection

1. Determine flow and pressure requirements.
2. Refer to Flow Chart and select the proper filter to match your flow and pressure needs.

Media Specifications

Grade	D.O.P. Coalescing Efficiency .3 to .6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Pressure Drop (PSID)[2] @ Rated Flow		Particulate Micron Rating
			Media Dry	Media Wet With 10-20 wt. oil	
6	99.97%	.008	1.0	2-3	.01
10	95%	.85	.5	.5	.7

[1] Tested per BCAS 860900 at 40 ppm inlet.
[2] Add dry + wet for total pressure drop.

D.O.P. = Dioctylphthalate

Reading Flow Charts For Coalescing Filters

To read the coalescer 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 coalescer 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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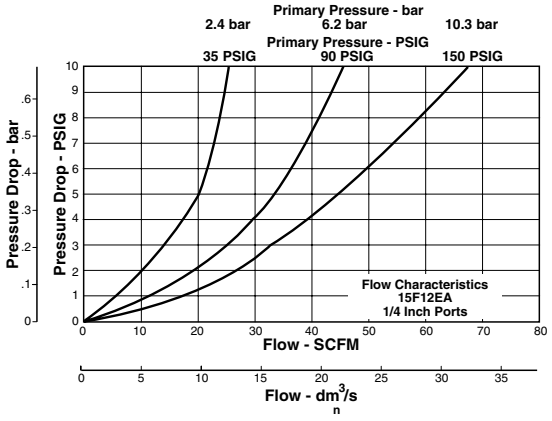
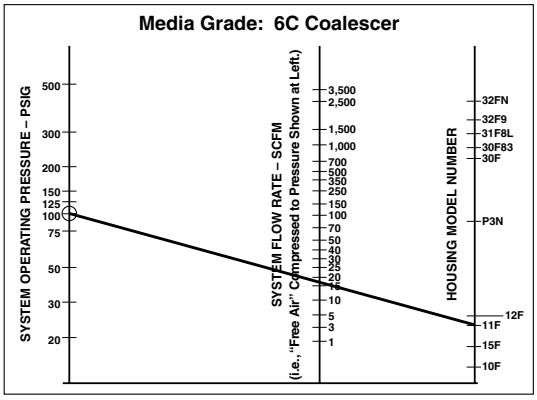
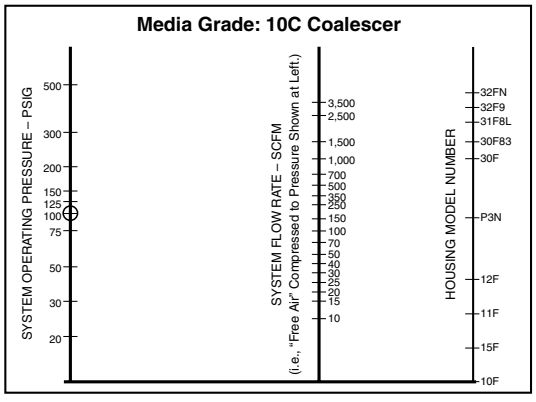


Reading Nomograms For Coalescing Filters

To size a coalescer, refer to the nomograms below. First determine the system pressure and find that pressure on the vertical axis on the left. Next, find the required flow rate on the middle vertical axis. Draw a connecting line between the two points extending to the middle vertical axis giving the recommended coalescer series. If the intersection on the model number axis is between models then choose the model above the intersection point insuring the proper flow in the unit.





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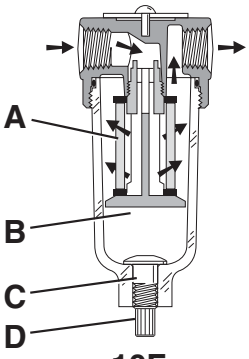
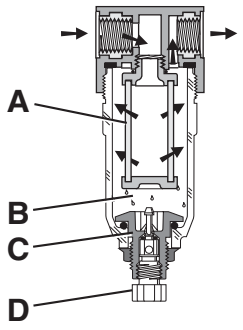


10F

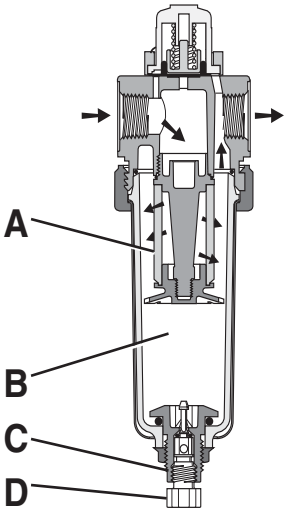
The contaminated air enters the element interior and is forced through a thick membrane of borosilicate glass fibers coated with epoxy **(A)**. Flow then passes through an outer structural support and, at this stage, has removed up to 99.97% + of the sub-micron particles evident in the contaminated air.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

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

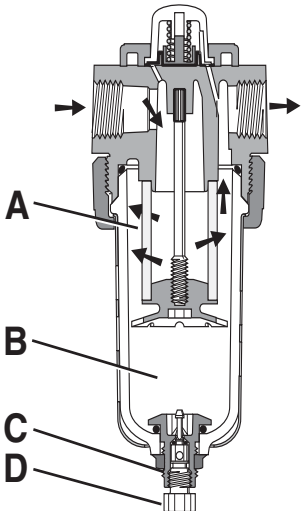
Collected liquids and particles in the “quiet zone” should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by the manual drain **(C)** which is actuated by twisting knob **(D)** counterclockwise. On the 30 Series, unscrew the drain valve **(E)** slightly until the liquid begins to drain.



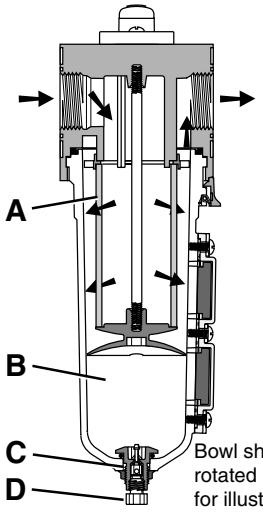
P3A-FA



15F



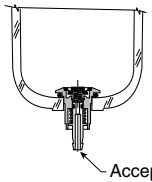
11F / 12F



Bowl shown rotated 90° for illustration purposes

P3NF

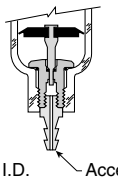
Semi Automatic Drain



(Overnight Drain)

This drain offers a semi-automatic function when there is a differential pressure in the filter which occurs when system pressure is shut off. The drain can also be used manually by gripping it with your fingertips and pushing upward.

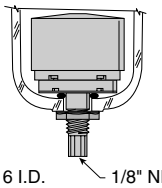
Automatic Pulse Drain



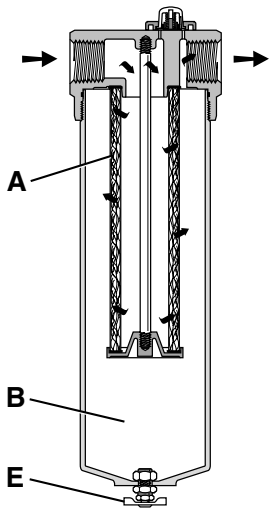
(Spitter Drain)

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.



30F, 31F, 32F

Coalescing Filters – Model Number Cross-Reference

ARROW Model Number	interchanges with	PARKER Model Number
EKF-401		P9001P
EKF-402		P9002P
EKF-405		P9003P
EKF-407		P9004P
EKF-410		P9005P
EKF-418		P9006P
EKF-428		P9007P
EKF-501		P9009P
EKF-502		P9010P
EKF-505		P9011P
EKF-507		P9012P
EKF-510		P9013P
EKF-518		P9014P
EKF-528		P9015P
EKF-501A		P9016P
EKF-502A		P9017P
EKF-505A		P9018P
EKF-507A		P9019P
EKF-510A		P9020P
EKF-518A		P9021P
EKF-528A		P9022P
EKF-601		P9023P
EKF-602		P9024P
EKF-605		P9025P
EKF-607		P9026P
EKF-610		P9027P
EKF-618		P9028P
EKF-628		P9029P

NORGREN Model Number	interchanges with	PARKER Model Number
665-75		P9046P
665-92		P9047P
665-88		P9048P

PALL Model Number	interchanges with	PARKER Model Number
OL-5C, MDC-, MCC-, MCS-, PSC, or PCC-4463SU		P9056P
OL-9C, PPY, POC, MDC-, MCC-, MCS-, PCS, or PCC-1001SU		P9057P
MDC-, MCC-, PPC, PCC-1201SU		P9058P
PPC, PCC-350SU		P9059P
PPC, or PCC-700SU		P9060P
DT-5C MDC-, MCC-, MCS-, PCS, or PCC-4463AF		P9061P
DT-9C, MDC-, MCC-, MCS-, PCS, or PCC-1001AF		P9062P
MDC-, MCC-, PCC-1201AF		P9063P
PCC-350AF		P9064P
PCC-700AF		P9065P
MDC-, MCC-, PCC-1001HT		P9066P
MDC-, MCC-, PCC-1201HT		P9067P
PCC-350HT		P9068P
PCC-700HT		P9069P

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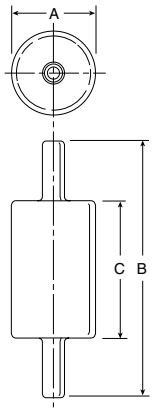
02F Coalescing Filters – Miniature

Features

- Clear nylon housing.
- Full length support tube.
- Positive tube seals.
- Optional filter grades available.
- Disposable.



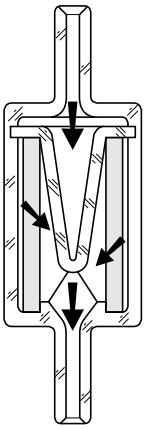
Application

The 02F Miniature Inline Filter is designed to remove 99.9%+ of the aerosols and sub-micron particles from your air system.

Port Size	Model	Element
1/4" I.D.	**02FA06A**	Grade 6
	02FA10A	Grade 10
	02FA22A	Grade 6 (oil activated dye)

02F Coalescing Filter Dimensions		
A	**B**	**C**
1.00 25mm	3.28 83mm	1.69 43mm

Operation



The contaminated air enters the filters interior and is forced through the elements membrane of Borosilicate glass fibers. Contaminants and aerosols are collected and distributed evenly along the entire tubes length. This is accomplished by the use of the “center post” which not only provides this “drop out pocket”, but also provides a stable support.

Ordering Information

02F	A	06	A

Port Size
A. Standard

Elements
06. Grade 6
10. Grade 10
22. Grade 6 oil activated dye

Engineering Level

Performance Specifications

Grade	D.O.P. Coalescing Efficiency .3 to .6 Micron Particles	Maximum Oil Carryover[1] PPM w/w	Pressure Drop (PSID)[2] @ Rated Flow		Flow: SCFM @ 1 PSID Operating Pressure 100 PSIG
			Media Dry	Media Wet With 10-20 wt. oil	
6	99.97%	.008	1.0	2-3	3.5 SCFM
10	95%	.85	.5	.5	5.3 SCFM

[1] Tested per BCAS 860900 at 40 ppm inlet.
[2] Add dry + wet for total pressure drop.

Specifications

Port Size ..... 1/4 I.D. Hose Slip On Tang Standard
Pressure & Temperature Ratings –
100 PSIG at 125°F (69 kPa at 52°C) or less

Materials of Construction

Element ..... Borosilicate & Felt Glass Fibers
Housing ..... Nylon
Optional Tube Barbs ..... Brass

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10F Coalescing Filters – Miniature

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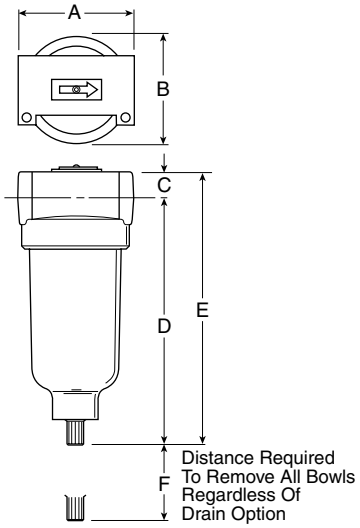
Features

- 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.
- High Flow: Grade 6 Element
  1/8" – 17 SCFM §
  1/4" – 20 SCFM §



Port Size	NPT		BSPP	
	Twist Drain	Automatic Pulse Drain	Twist Drain	Automatic Pulse Drain
Poly Bowl ‡				
1/8"	**10F01ED**	**10F05ED**	10F01ED1	10F05ED1
1/4"	**10F11ED**	**10F15ED**	10F11ED1	10F15ED1
Metal Bowl without Sight Gauge				
1/8"	**10F03ED**	**10F07ED**	10F03ED1	10F07ED1
1/4"	**10F13ED**	**10F17ED**	10F13ED1	10F17ED1

Standard part numbers shown 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 90 PSIG inlet and 5 PSIG pressure drop.

10F Coalescing 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

10F	1	1	E	D	—

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
- **E. Grade 6**
- **H. Grade 10**

Engineering Level
- **D. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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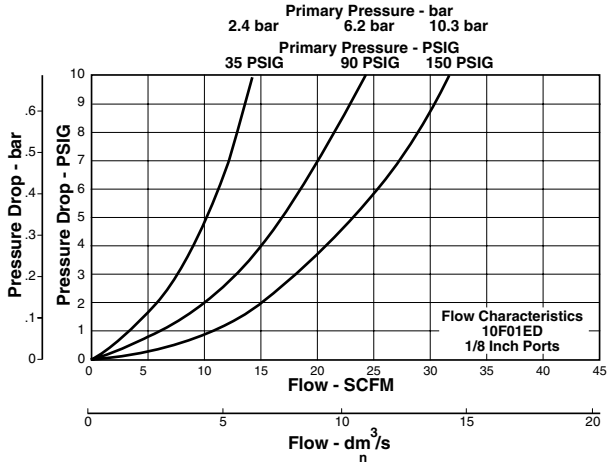
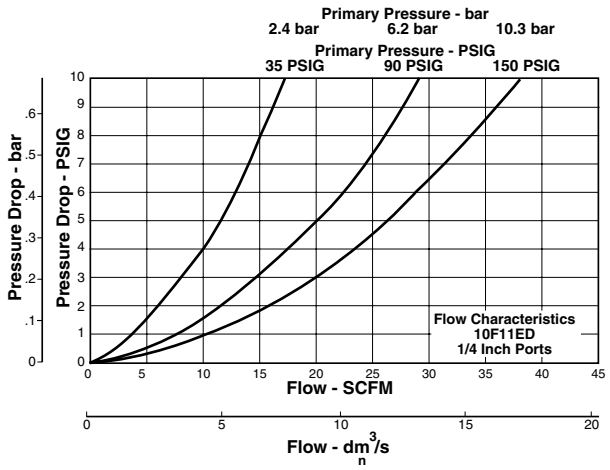
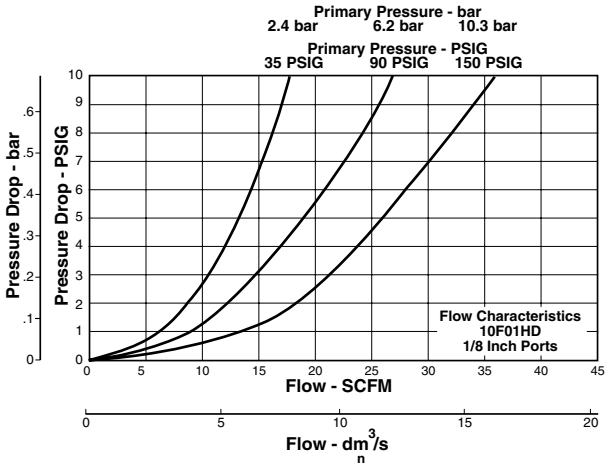
Technical Information

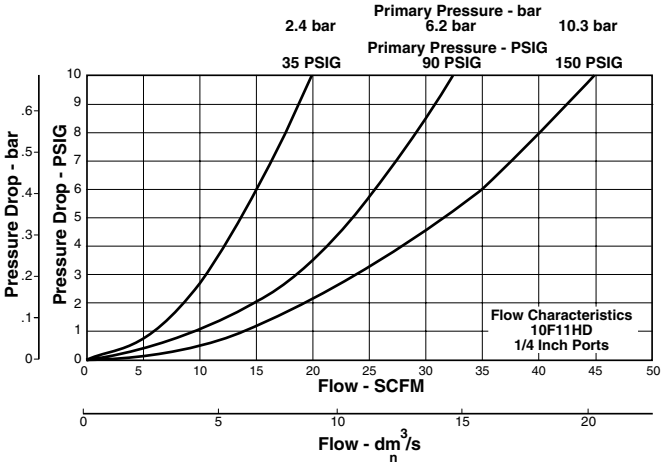
Grade 6





Grade 10





10F Coalescing Filter Kits & Accessories

Bowl Kits –
Poly Bowl – Automatic Pulse Drain PS408P
Twist Drain PS404P
Metal Bowl – Automatic Pulse Drain PS451P
Twist Drain PS447BP

Filter Element Kits – Grade 6 (Standard) PS446P
Grade 10 (Optional) PS456P

Mounting Bracket Kit PS417BP

Specifications

Bowl Capacity ..... 1 Ounce

Operation –
Normal Operating Pressure Drop ..... 2 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)

Weight ..... .41 lb. (.18 kg)

Materials of Construction

Body ..... Zinc

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

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

Element Holder ..... Plastic

Filter Elements ..... Borosilicate & Felt Glass Fibers

Seals ..... Nitrile

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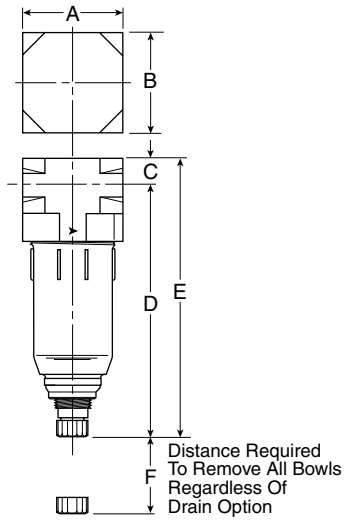
P3AF Coalescing Filters

Features

- Lightweight Plastic Body
- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the air stream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Grade 6 element, 99.97% DOP efficiency.
- Fingertip operated drain, automatic drain optional.
- Easily disassembled for servicing without the use of tools.
- High Flow: 1/8" – 20 SCFM §
  1/4" – 32 SCFM §



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Port Size	NPT	
	Twist Drain	Auto Pulse Drain
1/8"	P3A-FA91BCNP	P3A-FA91CCNP
1/4"	P3A-FA92BCNP	P3A-FA92CCNP

Standard part numbers shown with Grade 6 Elements.

‡ For polycarbonate bowl see Caution on page 2.

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

Filter Dimensions			
A	B	C	D
1.57 (40)	1.57 (40)	.43 (11)	3.98 (101)
D†	E	E†	F
3.70 (94)	4.41 (112)	4.13 (105)	2.00 (51)

Inches (mm)

† With Pulse Drain

Ordering Information

P3A-FA	9	1	B	C	N	P

Port Type	Port Size	Bowl / Drain	Element	Options	Bowl Material
9. NPT Female	1. 1/8 Inch 2. 1/4 Inch	Polycarbonate Bowl B. Twist Drain C. Auto Pulse Drain	C Grade 6	N. None	P. Polycarbonate

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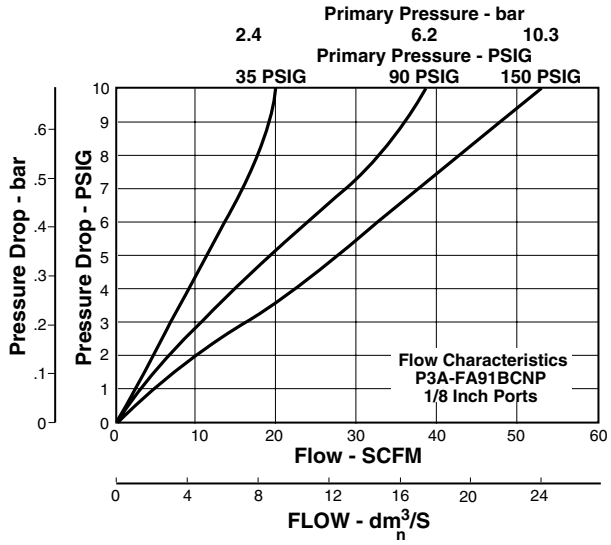
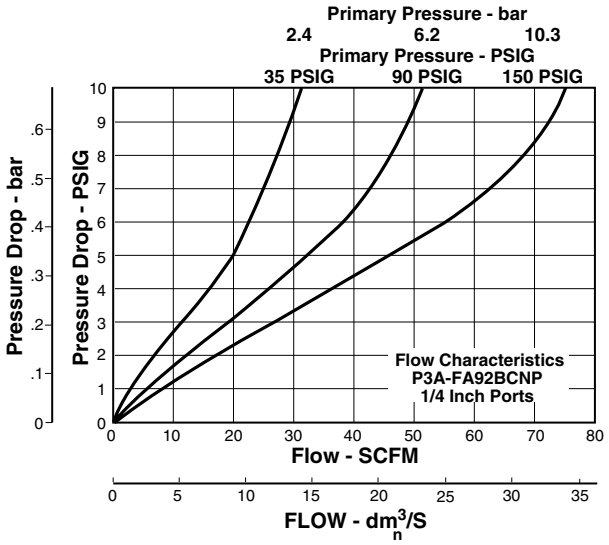
Technical Information





Coalescing Filter Kits and Accessories

Elements –
Grade 6 Coalescer Element PS467P
Plastic Bowls –
Bowl with Manual Drain P3A-KA00BBP
Bowl with Auto Pulse Drain P3A-KA00BCP
Service Kit P3A-KA00RFN
Wall Mount Kit P3A-KA00CFN

Specifications

Bowl Capacity ..... 0.9 Ounces
Sump Capacity ..... 0.24 ounces
Operation –
Normal Operating Pressure Drop ..... 2 PSIG
Maximum Recommended Pressure Drop ..... 10 PSIG
(Element should be replaced).

Operating Pressure Range	**PSIG**	**bar**	**kPa**
Maximum	120	8.3	828

Operating Temperature Range ..... 32°F to 125°F (0°C to 52°C)
Port Threads ..... 1/8 & 1/4 Inch
Weight ..... 0.18 lb. (0.08 kg.)

Materials of Construction

Body ..... Plastic
Bowl ..... Transparent Polycarbonate
Drains – Twist Drain –
Body & Stem ..... Plastic
Seals ..... Nitrile
Auto (Pulse) –
Piston & Seals ..... Nitrile
Stem, Seat, Adaptor & Washers ..... Aluminum
Filter Element –
Borosilicate & felt glass fibers 99.97% DOP efficiency
Largest Aerosol Particle Passed ..... 0.75 Microns
Largest Solid Particle Passed ..... 0.30 Microns
Port Inserts ..... Brass
Seals ..... Nitrile

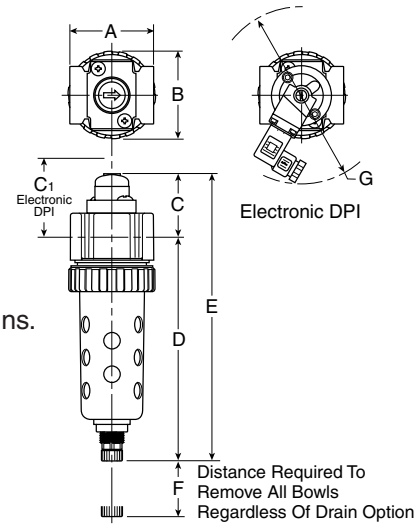
Parker Pneumatic

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatic

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 §



Port Size	NPT		BSPP	
	Twist Drain	Automatic Pulse Drain	Twist Drain	Automatic Pulse Drain
Poly Bowl ‡ / Metal Guard				
1/4"	**15F12EA**	**15F1PEA**	15F12EA1	15F1PEA1
3/8"	**15F22EA**	**15F2PEA**	15F22EA1	15F2PEA1
Metal Bowl / Sight Gauge				
1/4"	**15F14EA**	**15F1TEA**	15F14EA1	15F1TEA1
3/8"	**15F24EA**	**15F2TEA**	15F24EA1	15F2TEA1

Standard part numbers shown 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 90 PSIG inlet and 5 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)	**G Dia.** 4.50 (114)	

Inches (mm)

† With Twist Drain or Automatic Float Drain

Ordering Information

15F	1	2	E	A	—	—

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
N. Auto Pulse Drain	R. Auto Pulse Drain
P. Metal Bowl Guard / Auto Pulse Drain	**T. Sight Gauge / Auto Pulse Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
- **E. Grade 6**
- H. Grade 10

Engineering Level
- **A. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options
- **Blank. With Differential Pressure Indicator**
- N. Without Differential Pressure Indicator
- Q. Fluorocarbon with DPI
- R. With Electronic DPI
- V. Fluorocarbon without DPI

* Fluorocarbon available with Metal Bowl, Twist Drain only.

NOTE: BOLD OPTIONS ARE STANDARD.

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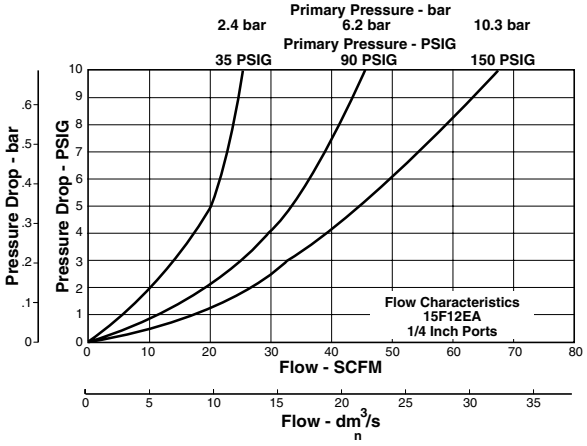
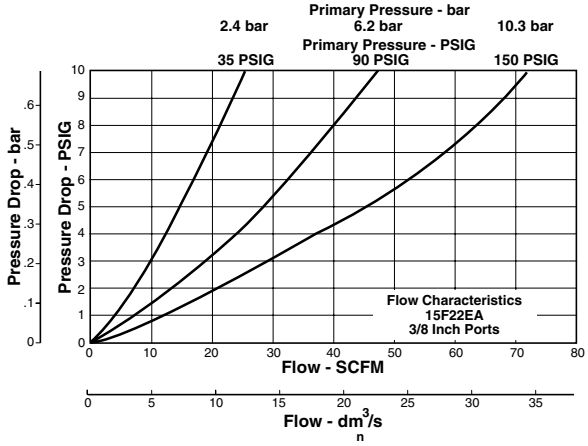
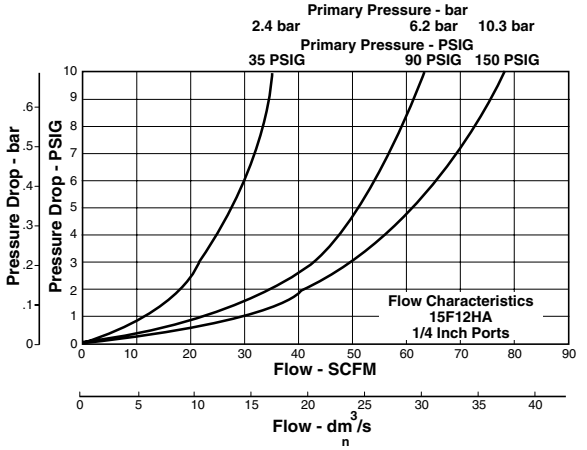
Technical Information

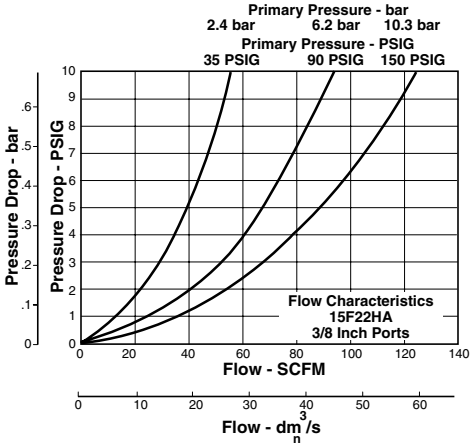
Grade 6





Grade 10





15F Coalescing Filter Kits & Accessories

Bowl Guard Kit PS905P

Bowl Kits –

Poly Bowl – Automatic Pulse Drain PS995P
Semi-Auto Drain PS992P
Twist Drain PS932P
Push 'N' Drain PS904P

Metal Bowl – Automatic Pulse Drain PS997P
Semi-Auto Drain PS994P
Twist Drain PS934P
Twist Drain (Fluorocarbon) PS934VP
Push 'N' Drain PS925P
Sight Gauge / Automatic Pulse Drain PS996P
Sight Gauge / Semi-Auto Drain PS993P
Sight Gauge / Twist Drain PS935P
Sight Gauge / Twist Drain (Fluorocarbon) PS935VP
Sight Gauge / Push 'N' Drain PS906P

DPI Replacement Kit PS781P

Electronic DPI Replacement Kit PS764

Drain Kit – Automatic Pulse Drain PS998P
Semi-Auto Drain PS511P
Twist Drain PS512P
Twist Drain (Fluorocarbon) PS512VP
Push 'N' Drain PS513P

Electrical Connector - 15mm, 3-Pin DIN, 6 Ft. Cord PS2923JP

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 ..... .9 Ounce

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

Pressure & Temperature Rating –

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)

Weight ..... 1.2 lb. (.54 kg)

Materials of Construction

Body ..... Zinc

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

Bowl Guards ..... Steel

Collar ..... Plastic

Drain ..... Plastic

Filter Elements ..... Borosilicate & Felt Glass Fibers

Seals ..... Nitrile

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

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
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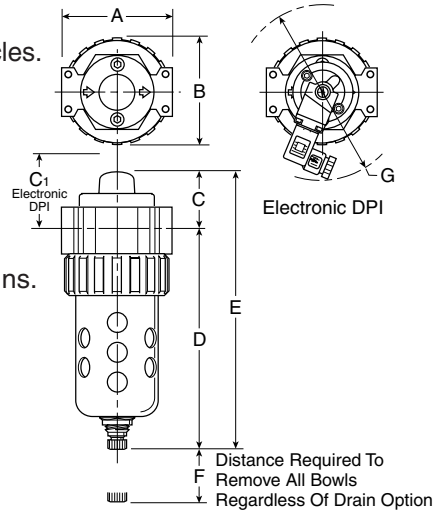
11F Coalescing Filters – Compact

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 §



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Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Poly Bowl ‡ / Metal Guard				
1/4"	**11F12EC**	**11F16EC**	11F12EC1	11F16EC1
3/8"	**11F22EC**	**11F26EC**	11F22EC1	11F26EC1
1/2"	**11F32EC**	**11F36EC**	11F32EC1	11F36EC1
Metal Bowl / Sight Gauge				
1/4"	**11F14EC**	**11F18EC**	11F14EC1	11F18EC1
3/8"	**11F24EC**	**11F28EC**	11F24EC1	11F28EC1
1/2"	**11F34EC**	**11F38EC**	11F34EC1	11F38EC1

Standard part numbers shown 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 90 PSIG inlet and 5 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)
G Dia. 4.50 (114)		

Inches (mm)

† With Automatic Float Drain

Ordering Information

11F	1	2	E	C	—	—

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
5. Auto Float Drain	7. Auto Float Drain
6. Metal Bowl Guard / Auto Float Drain	**8. Sight Gauge / Auto Float Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
- **E. Grade 6**
- H. Grade 10

Engineering Level
- **C. Current**

Options
- **Blank. With Differential Pressure Indicator**
- N. Without Differential Pressure Indicator
- R. With Electronic DPI

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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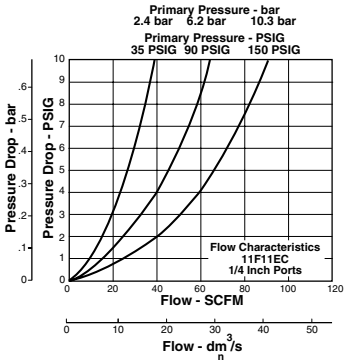
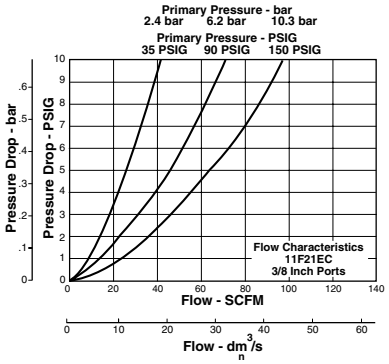
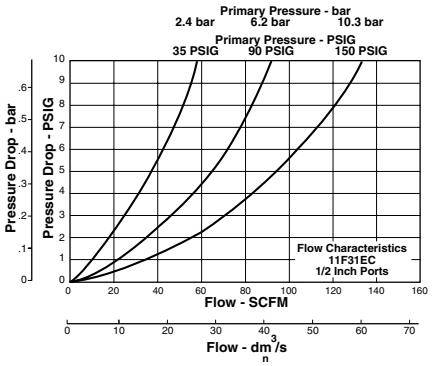
Technical Information

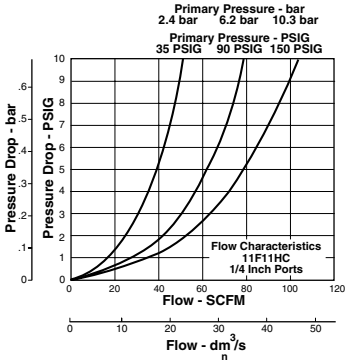
Grade 6

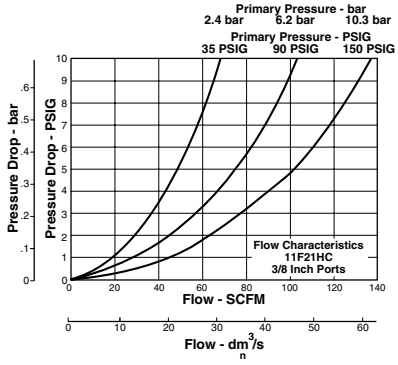


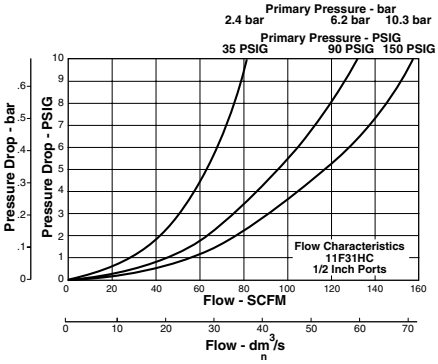




Grade 10







11F Coalescing Filter Kits & Accessories

Bowl Guard Kit PS705P

Bowl Kits –

Poly Bowl – Automatic Float Drain PS722P
Semi-Auto Drain PS792P
Twist Drain PS732P
Push 'N' Drain PS704P

Metal Bowl – Automatic Float Drain PS726P
Semi-Auto Drain PS794P
Twist Drain PS734P
Push 'N' Drain PS725P
Sight Gauge / Automatic Float Drain PS723P
Sight Gauge / Semi-Auto Drain PS793P
Sight Gauge / Twist Drain PS735P
Sight Gauge / Push 'N' Drain PS706P

DPI Replacement Kit PS781P

Electronic DPI Replacement Kit PS764

Drain Kits – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P

Electrical Connector - 15mm, 3-Pin DIN, 6 Ft. Cord PS2923JP

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

Mounting Bracket Kit PS743P

Sight Gauge Kit PS714P

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

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 – 10 to 250 PSIG (.69 to 17.2 bar)

Weight ..... 1.5 lb (.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
Push 'N' Drain – Body ..... Nitrile
Stem ..... Brass
Automatic Float Drain – ..... Housing, Float Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel

Filter Elements ..... Borosilicate & Felt Glass Fibers

Seals ..... Nitrile

Sight Gauge ..... Polyamide

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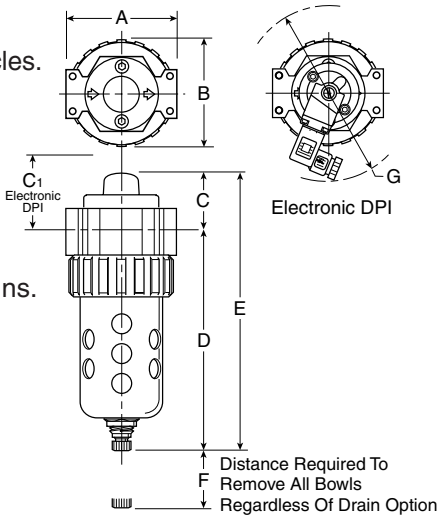
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatic

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 recommended metal bowl guard.
- High Flow: Grade 6 Element
  3/8" – 73 SCFM §
  1/2" – 75 SCFM §
  3/4" – 80 SCFM §



A Index

Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Poly Bowl ‡ / Metal Guard				
3/8"	**12F22EC**	**12F26EC**	12F22EC1	12F26EC1
1/2"	**12F32EC**	**12F36EC**	12F32EC1	12F36EC1
3/4"	**12F42EC**	**12F46EC**	12F42EC1	12F46EC1
Metal Bowl / Sight Gauge				
3/8"	**12F24EC**	**12F28EC**	12F24EC1	12F28EC1
1/2"	**12F34EC**	**12F38EC**	12F34EC1	12F38EC1
3/4"	**12F44EC**	**12F48EC**	12F44EC1	12F48EC1

Standard part numbers shown 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 90 PSIG inlet and 5 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)
G Dia. 4.50 (114)		

Inches (mm)

† With Automatic Float Drain

Ordering Information

12F	3	2	E	C	—	—

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
5. Auto Float Drain	7. Auto Float Drain
6. Metal Bowl Guard / Auto Float Drain	**8. Sight Gauge / Auto Float Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
- **E. Grade 6**
- H. Grade 10

Engineering Level
- **C. Current**

Options
- **Blank. With Differential Pressure Indicator**
- N. Without Differential Pressure Indicator
- R. With Electronic DPI

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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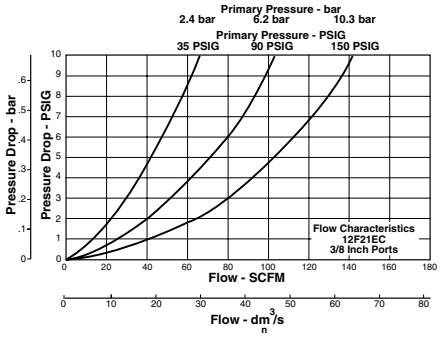
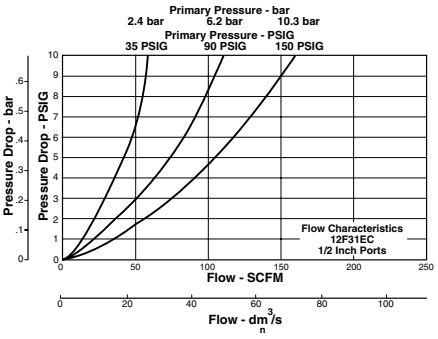
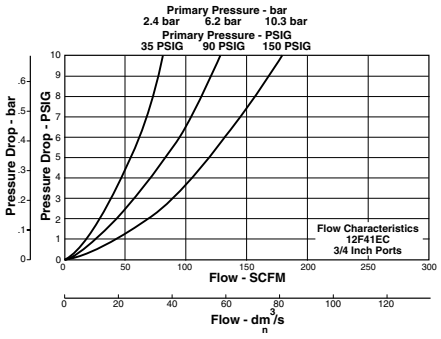
Technical Information

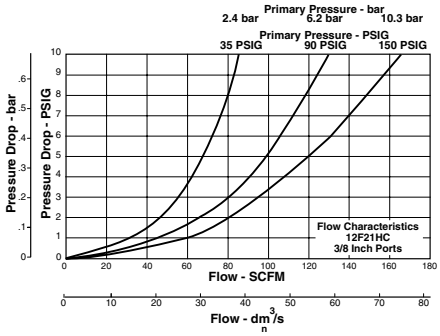
Grade 6

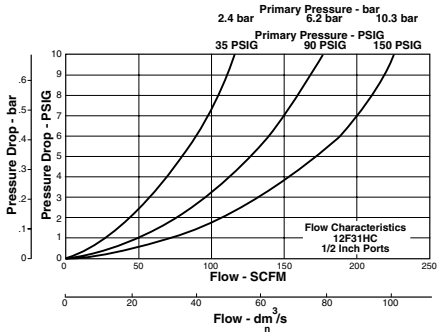


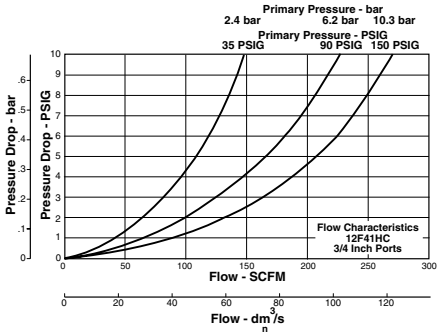




Grade 10







12F Coalescing Filter Kits & Accessories

Bowl Guard Kit PS805P
Bowl Kits –
Poly Bowl – Automatic Float Drain PS822P
Semi-Auto Drain PS892P
Twist Drain PS832P
Push 'N' Drain PS804P
Metal Bowl – Automatic Float Drain PS826P
Semi-Auto Drain PS894P
Twist Drain PS834P
Push 'N' Drain PS825P
Sight Gauge / Automatic Float Drain PS823P
Sight Gauge / Semi-Auto Drain PS893P
Sight Gauge / Twist Drain PS835P
Sight Gauge / Push 'N' Drain PS806P
DPI Replacement Kit PS781P
Electronic DPI Replacement Kit PS764
Drain Kits – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P
Electrical Connector - 15mm, 3-Pin DIN, 6 Ft. Cord PS2923JP
Filter Element Kits – Grade 6 (Standard) PS824P
Grade 10 (Optional) PS830P
Mounting Bracket Kit PS843P
Sight Gauge Kit PS814P

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)
Minimum Recommended Flow –
20% Nominal Rating of Element

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 – 10 to 250 PSIG (.69 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
Push 'N' Drain – Body ..... Nitrile
Stem ..... Brass
Automatic Float Drain – ..... Housing, Float Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Filter Elements ..... Borosilicate & Felt Glass Fibers
Seals ..... Nitrile
Sight Gauge ..... Polyamide

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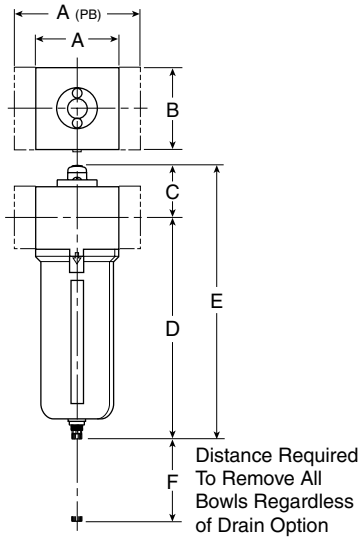
P3NF Coalescing Filters – Hi-Flow

A Index

Features

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies.
- 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: Grade 6 Element
  3/4" – 130 SCFM §
  1" – 140 SCFM §
  1-1/2" # – 150 SCFM §



Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Metal Bowl / Sight Gauge				
3/4"	**P3NFA96DSM**	**P3NFA96DSA**	P3NFA16DSM	P3NFA16DSA
1"	**P3NFA98DSM**	**P3NFA98DSA**	P3NFA18DSM	P3NFA18DSA
1-1/2" #	**P3NFA9PDSM**	**P3NFA9PDSA**	P3NFA1PDSM	P3NFA1PDSA

Standard part numbers shown with Grade 6 Elements (for Grade 10 Elements, replace "D" with "Q" in the 8th position), for other models refer to ordering information below.

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

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

P3NF Coalescing Filter Dimensions		
A 3.62 (92)	**A** (PB) 5.91 (150)	**B** 3.62 (92)
C 2.30 (58.5)	**D** † 9.57 (243)	**E** † 11.90 (302)
F 4.92 (125)		

Inches (mm)

† With Twist Drain or Automatic Float Drain

Ordering Information

P3N	F	A	9	8	D	S	M

Design Level

Port Type
1. G Thread (BSPP) Female
2. Rc Thread (BSPT) Female
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)

Element
w/ DPI Indicator
D. Grade 6
Q. Grade 10

Bowl
S. Metal Bowl w/ Sight Gauge

Drain
M. Twist Drain
A. Automatic Float Drain
P. Push 'N' Drain
S. Semi-Auto Drain

NOTE: BOLD OPTIONS ARE STANDARD.

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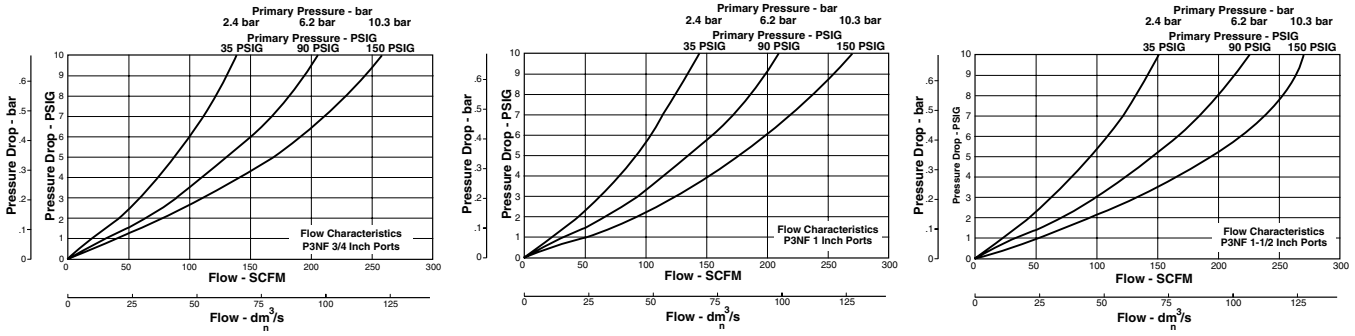
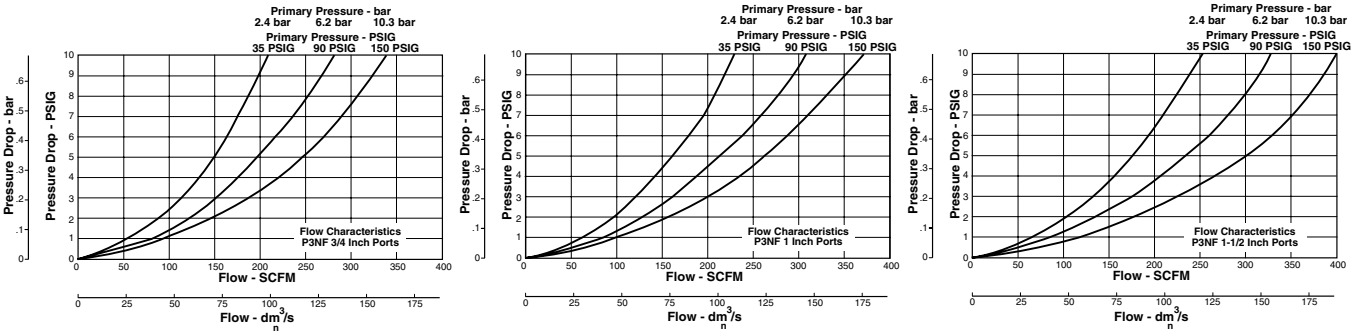
Technical Information

Grade 6



Grade 10



P3NF Coalescing Filter Kits & Accessories

Bowl Kits –
Metal Bowl – Sight Gauge / Automatic Float Drain . P3NKA00BSA
Sight Gauge / Twist Drain P3NKA00BSM
Sight Gauge / Push 'N' Drain P3NKA00BSP

Bowl Latch Kit C11A33

DPI Replacement Kit PS781P

Drain Kit – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P

Filter Elements – Grade 6 (Standard) P3NKA00ESC
Grade 10 (Optional) P3NKA00ES9

Sight Gauge Kit P3NKA00PE

Mounting Bracket Kit* P3NKA00MW

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

Specifications

Body & Bowl ..... Aluminum
Bowl Capacity ..... 18.0 Ounces
Sump Capacity ..... 6.8 Ounces
Deflector ..... Plastic
Drain ..... Plastic
Filter Elements ..... Borosilicate & Felt Glass Fibers
Pressure & Temperature Rating – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
Seals ..... Nitrile
Sight Gauge ..... Polyamide (Nylon)
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)

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

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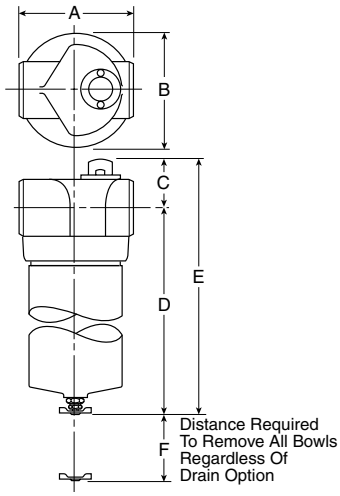
30F, 31F, 32F Coalescing Filters – Main Line

A Index

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.
- Differential pressure indicator standard.
- High Flow:

Port Size	Model	Bowl Capacity	SCFM §
1-1/2"	30F	14.8 Oz.	350
2"	31F83	17.9 Oz.	450
2"	31F8L	20.9 Oz.	625
2-1/2"	32F9	29.7 Oz.	800
3"	32FN	29.7 Oz.	1000



Port Size	Twist Drain
Metal Bowl without Sight Gauge	
1-1/2"	**30F73ECP**
2"	**31F83ECP**
2"	**31F8LECP**
2-1/2"	**32F9LECP**
3"	**32FNLECP**

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

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

Main Line – Coalescing Filter Dimensions

	A	B	C	D	E	F
30F	6.00 (152)	5.67 (144)	2.55 (65)	17.41 (442)	19.96 (507)	13.50 (343)
31F83	6.00 (152)	5.67 (144)	2.55 (65)	23.47 (596)	26.02 (661)	19.25 (489)
31F8L	6.00 (152)	5.67 (144)	2.55 (65)	28.51 (724)	30.25 (768)	24.02 (610)
32F9	8.00 (203)	7.24 (184)	3.30 (84)	34.41 (874)	37.71 (958)	28.50 (724)
32FN	8.00 (203)	7.24 (184)	3.30 (84)	34.41 (874)	37.71 (958)	28.50 (724)

Inches (mm)

Ordering Information

30F	7	3	E	C	P

Port Size
30F
7. 1-1/2 Inch
31F
8. 2 Inch
32F
9. 2-1/2 Inch
N. 3 Inch

Bowl Options
Twist Drain
3. Short Bowl (30F, 31F)
L. Long Bowl (31F, 32F)
Metal Bowl with Automatic Float Drain
7. Short Bowl (30F, 31F)
M. Long Bowl (31F, 32F)

Elements
E. Grade 6
H. Grade 10

Engineering Level
C. Current

Options
P. Pressure Differential Indicator

NOTE: BOLD OPTIONS ARE STANDARD.

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A

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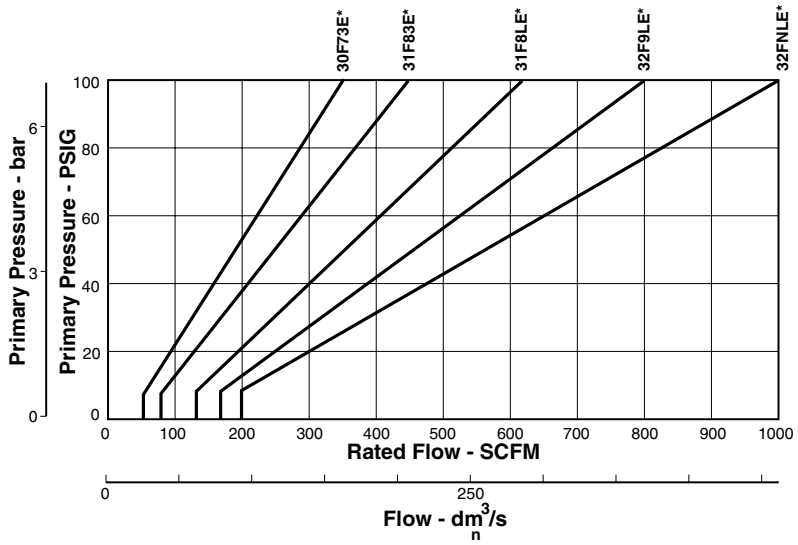
Technical Information



30F, 31F, 32F Coalescing Filter Kits & Accessories

Bowl Kit – Metal / Twist Drain –
- 30F 41618P
- 31F83 ..... 41619P
- 31F8L 41620P
- 32F 41621P

DPI Replacement Kit –
- 30F, 31F83, 31F8L, 32F 2003P

Differential Pressure Indicating Gauge –
- 30F, 31F83, 31F8L, 32F 2111P

Drain Kits – Automatic Float Drain –
- 30F, 31F83, 31F8L, 32F PS506P

Filter Element Kits – Grade 6 (Standard) –
- 30F 9920-011x1P
- 31F83 ..... 9920-012x1P
- 31F8L 9920-013x1P
- 32F 9920-014x1P

Grade 10 (Optional) –
- 30F 9920-015x1P
- 31F83 ..... 9920-016x1P
- 31F8L 9920-017x1P
- 32F 9920-018x1P

Specifications

Model	Bowl Capacity	Port Threads	Weight
30F	14.8 Oz.	1-1/2"	11.9 lb. (5.4 kg)
31F83	17.9 Oz.	2"	14.0 lb. (6.4 kg)
31F8L	20.9 Oz.	2"	15.9 lb. (7.2 kg)
32F9	29.7 Oz.	2-1/2"	35.0 lb. (15.9 kg)
32FN	29.7 Oz.	3"	34.2 lb. (15.5 kg)

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

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

Materials of Construction

Body ..... Aluminum
Bowl ..... Aluminum without Sight Gauge
Drains – Twist Drain ..... Brass Petcock
Automatic Float Drain –
- Housing, Float ..... Plastic
- Seals ..... Buna N
- Springs, Push Rod ..... Stainless Steel

Filter Elements ..... Borosilicate & Felt Glass Fibers
Seals ..... Nitrile

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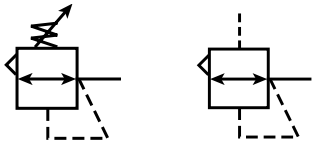
Regulators



- Pipe Sizes 1/8 thru 2 Inch
- Flows to 1000 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 P3A-R Series, 1/8 and 1/4 Inch
- Economy 05R Series, 1/4 and 3/8 Inch
- Compact 06R Series, 1/4, 3/8 and 1/2 Inch
- Standard 07R Series, 3/8, 1/2 and 3/4 Inch
- Hi-Flow P3NR Series, 3/4, 1 and 1-1/2 Inch
- Hi-Flow 09R Series, 2 Inch
- Dial Regulators Series, 1/4 thru 2 Inch
- Precision 27R Series, 1/4 and 3/8 Inch
- Compact 3550 Series, 1/4 Inch
- Pilot Controlled 10R, 11R, 12R, P3NR Series, 1/4 thru 1-1/2 Inch

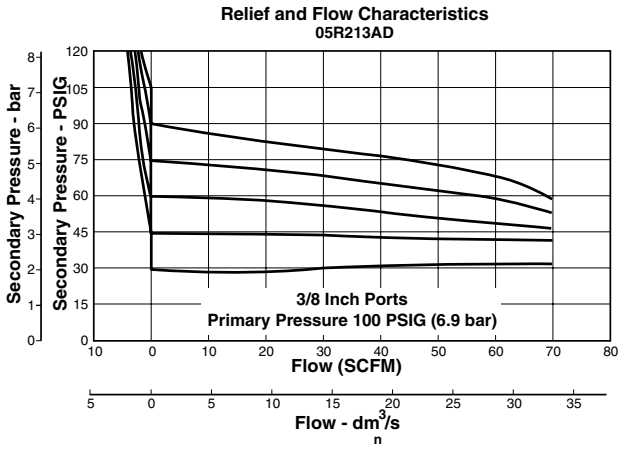
Miniature Regulators for Water Service.

- Miniature P3A-W Series, 1/8 and 1/4 Inch
- Miniature 20R Series, 1/8 and 1/4 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

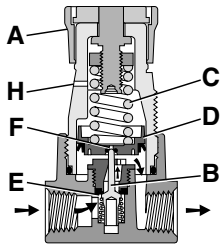


Once the required flow is determined for a pneumatic application the regulator or filter/regulator can be selected by using the flow chart. The chart serves two different purposes. To read the flow, use the right side of the chart. To read the relief characteristics use the left side of the chart. When 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.

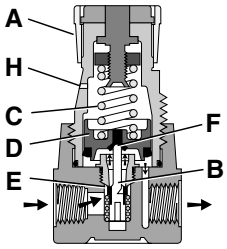
CAUTION:

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.

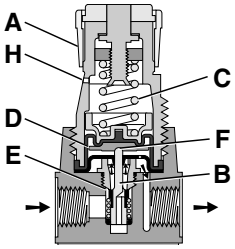
A Index



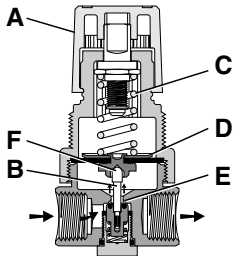
14R



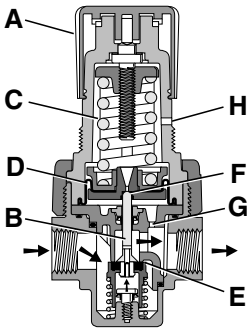
P3AR



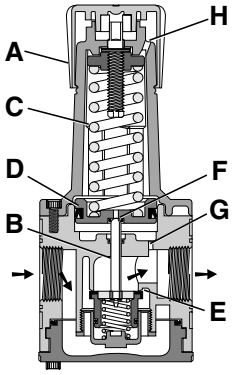
P3AW



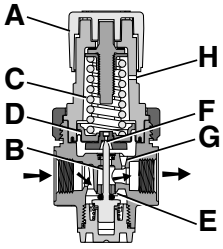
20R



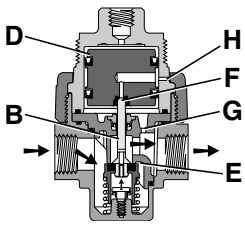
05R, 06R, 07R



P3NR



27R

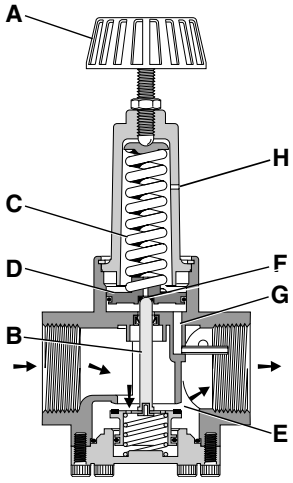


10R, 11R, 12R

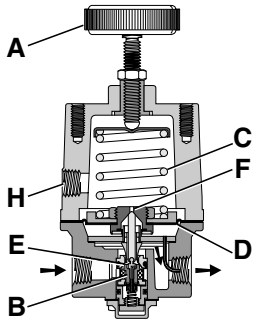
With the adjusting knob **(A)** turned fully counterclockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly **(B)** is closed. Turning the adjusting knob clockwise applies a load to control spring **(C)**. This load causes the piston /diaphragm **(D)** 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.

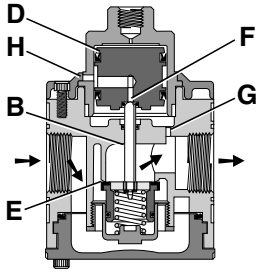
Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the piston / diaphragm **(D)** to move upward against control spring **(C)**, open vent hole **(F)**, and vent the excess pressure to atmosphere through the hole in the bonnet **(H)**. (This occurs in the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



09R



3550



P3NR Air Pilot

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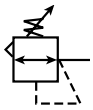
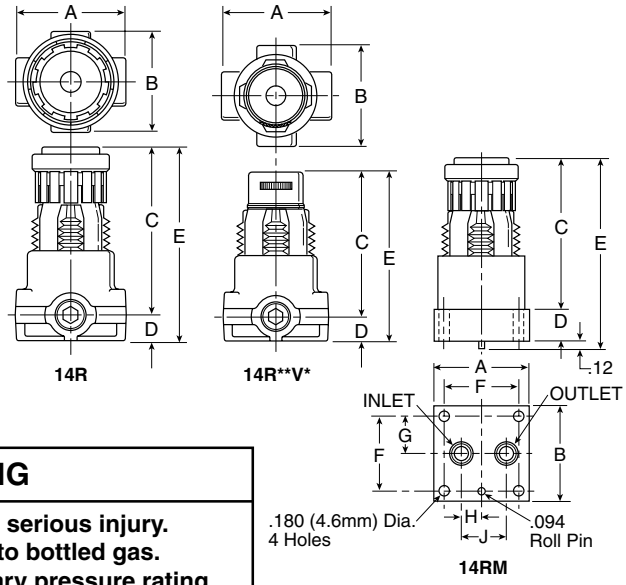
14R Regulators – Miniature



Features

- Unbalanced poppet standard.
- Solid control piston with lip seal for extended life.
- Non-rising adjusting knob.
- Compact, 2.9 inch (74mm) high by 1.65 inch (42mm) wide.
- Easily serviced.
- High Flow: 1/8" – 13 SCFM§
  1/4" – 15 SCFM§



⚠ WARNING

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

Port Size	NPT	BSPP
Without Gauge		
1/8"	**14R013FC**	14R013FC1
1/4"	**14R113FC**	14R113FC1
With 160 PSI Gauge		
1/8"	**14R018FC**	14R018FC1
1/4"	**14R118FC**	14R118FC1

Standard part numbers shown, for other models refer to ordering information below.

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

14R	**A** 1.65 (42)	**B** 1.56 (40)	**C** 2.50 (63,5)	**D** .38 (10)	**E** 2.88 (73)
14RV***	**A** 1.65 (42)	**B** 1.56 (40)	**C** 2.30 (58,4)	**D** .38 (10)	**E** 2.68 (68)
14RM	**A** 1.50 (38)	**B** 1.50 (38)	**C** 2.36 (60)	**D** .50 (13)	**E** 2.98 (73)
	F 1.188 (30)	**G** .594 (15)	**H** .325 (8)	**J** .725 (18)	

Inches (mm)

Ordering Information

14R	1	13	F	C	—	—	---

Port Size

- **0. 1/8 Inch Pipe, 1/8 Inch Gauge Port**
- **1. 1/4 Inch Pipe, 1/8 Inch Gauge Port**
- B. 1/4 Inch Pipe, 1/4 Inch Gauge Port
- C. 1/8 Inch Pipe, No Gauge Port
- D. 1/4 Inch Pipe, No Gauge Port
- M. Manifold Mounting

Pressure Range

Without Gauge		With Gauge	
Yellow Knob	Black Knob		
10. 30 PSIG	B0. 30 PSIG	**15. 30 PSIG**	B5. 30 PSIG
11. 60 PSIG	B1. 60 PSIG	**16. 60 PSIG**	B6. 60 PSIG
12. 15 PSIG	B2. 15 PSIG	**17. 15 PSIG**	B7. 15 PSIG
13. 125 PSIG	B3. 125 PSIG	**18. 125 PSIG**	B8. 125 PSIG

Relief

- **F. Relieving**
- G. Non-Relieving

Engineering Level

- **C. Current**

Port Type

- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options

- **Blank. No Options**
- L.† Preset Non-Adjustable
- P.† Preset Adjustable Pressure Limiter Max.
- S.† Adjustable Pressure Limiter Max. Non-Adjustable
- T.†

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

Preset / Pressure Limited

- **Blank. None**
- XXX* Preset Pressure
- XXX* Pressure Limited

* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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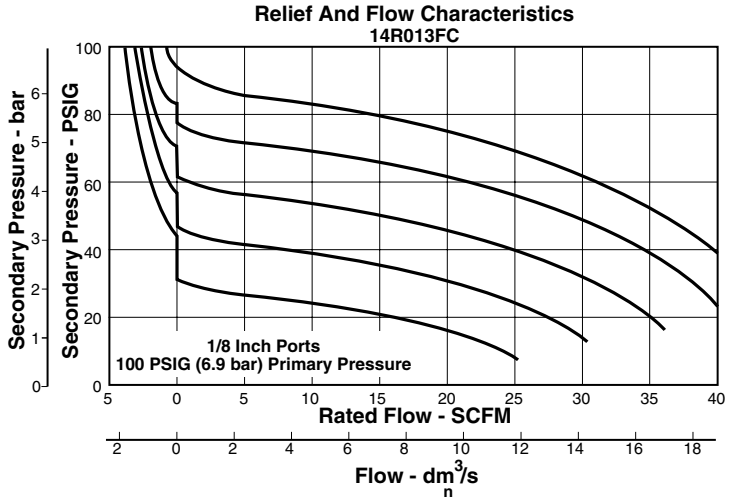
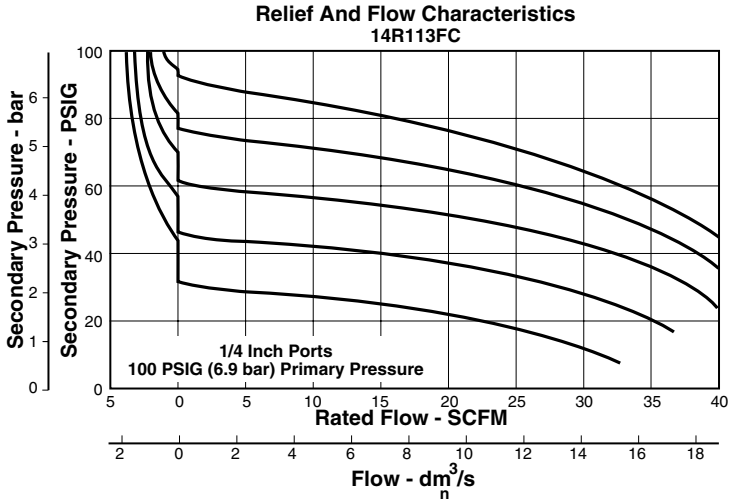
Technical Information





14R Regulator Kits & Accessories

Body Service Kit – Unbalanced PS424BP
Bonnet Assembly Kit L01369
Bonnet Tamperproof Kit P01265
Gauges – 30 PSIG, 1/8" NPT (0 to 200 kPa) P530156
60 PSIG, 1/8" NPT (0 to 400 kPa) P530154
160 PSIG, 1/8" NPT (0 to 1100 kPa) P77413
60 PSIG, 1/4" NPT (0 to 400 kPa) P781641
160 PSIG, 1/4" NPT (0 to 1100 kPa) P781642
Mounting Bracket Kit (Includes Panel Mount Nut) PS417BP
Panel Mount Nuts – Plastic P78652
Metal P01531
Service Kits – Non-Relieving PS422P
Relieving PS423P
Springs – 1-30 PSIG Range P01175
1-60 PSIG Range P01174
2-125 PSIG Range P01173
1-15 PSIG Range P01176

Specifications

Gauge Ports (2) ..... 1/8 or 1/4 Inch
(Can be used for Full Flow)
Port Threads ..... 1/8, 1/4 Inch
Pressure & Temperature Ratings – 0 to 300 PSIG (0 to 2068 kPa)
32°F to 125°F (0°C to 52°C)
Secondary Pressure Ranges –
Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Medium Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
Medium Pressure ..... 1 to 30 PSIG (6.9 to 207 kPa)
Low Pressure ..... 1 to 15 PSIG (6.9 to 104 kPa)
Weight – 14R, 14RM, 14**V* ..... .3 lb. (.14 kg)

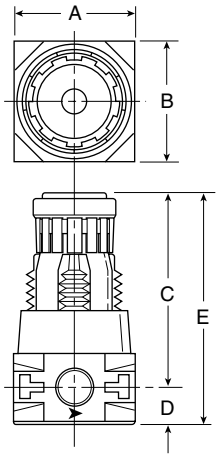
Materials of Construction

Adjusting Nut ..... Brass
Adjusting Stem & Spring ..... Steel
Body ..... Zinc
Bonnet, Seat, Piston & Valve Poppet ..... Plastic
Seals ..... Nitrile

P3A-R Regulators – Miniature

Features

- Lightweight plastic body.
- Non-rising adjusting knob.
- Solid control piston with lip seal for extended life.
- Unbalanced poppet standard.
- Two full flow 1/8" gauge ports.
- Reverse flow capability.
- High Flow: 1/8" – 18 SCFM §



A Index

Port Size	NPT
Without Gauge	
1/8"	**P3A-RN91YNN**
1/4"	**P3A-RN92YNN**
With Gauge	
1/8"	**P3A-RN91YGN**
1/4"	**P3A-RN92YGN**

Standard part numbers shown, for other models refer to ordering information below.

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.

Regulator Dimensions			
A	**B**	**C**	**D**
1.57 (40)	1.57 (40)	2.46 (63)	0.46 (12)
E			
2.92 (74)			

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

P3A-RN	9	1	Y	N	N

Port Type
- **9. NPT Female**

Port Size
- **1. 1/8 Inch**
- **2. 1/4 Inch**

Relief / Knob
- **B. Relieving, Black Knob**
- **Q. Non-Relieving, Yellow Knob**
- **V. Relieving, No Knob**
- **Y. Relieving, Yellow Knob**

Pressure / Gauge

Without Gauge
- **A. 15 PSIG (0 to 1 bar)**
- **L. 60 PSIG (0 to 4 bar)**
- **N. 120 PSIG (0 to 8 bar)**
- **Y. 30 PSIG (0 to 2 bar)**

With Gauge
- **B. 15 PSIG (0 to 1 bar)**
- **G. 120 PSIG (0 to 8 bar)**
- **M. 60 PSIG (0 to 4 bar)**
- **Z. 30 PSIG (0 to 2 bar)**

Options
- **N. None**

NOTE: BOLD OPTIONS ARE STANDARD.

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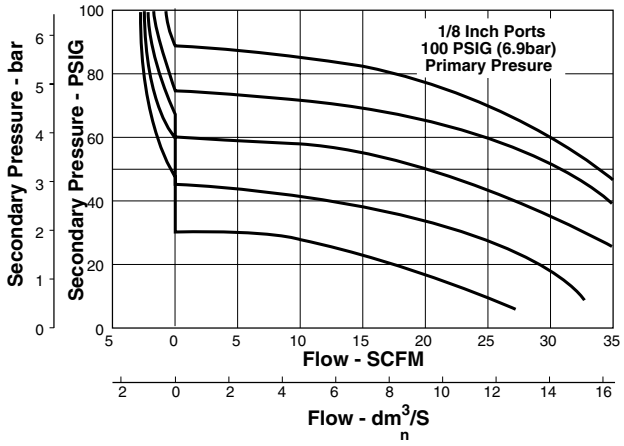
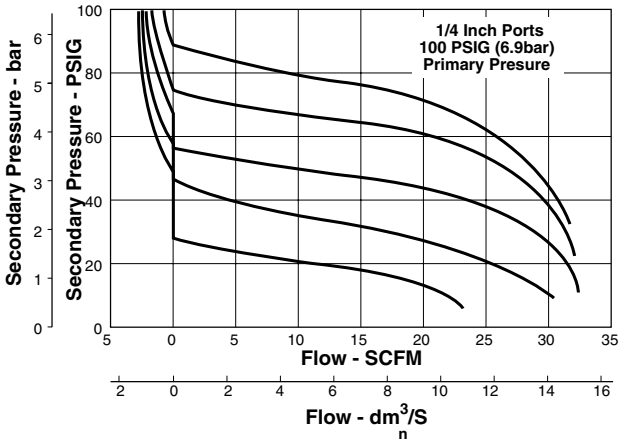
Technical Information

Relief And Flow Characteristics
P3A-RN91YNN



Relief And Flow Characteristics
P3A-RN92YNN



Regulator Kits and Accessories

Gauges – 30 PSIG, 1/8" NPT (0 to 200 kPa) P530156
60 PSIG, 1/8" NPT (0 to 400 kPa) P530154
160 PSIG, 1/8" NPT (0 to 1100 kPa) P77413

Panel Mount Nut P78652

Mounting Bracket Kit PS417BP

Service Kits – Piston Non-Relieving PS422
Piston Relieving PS423
Poppet Service Kits – Balanced PS425B
Unbalanced PS424B

Springs – 1-15 PSIG Spring P01176
1-30 PSIG Spring P01175
1-60 PSIG Spring P01174
5-110 PSIG Spring P01173

Tamperproof Kit P01265

Specifications

Gauge Ports (2) ..... 1/8 Inch

Operating Pressure Range –		**PSIG**	**bar**	**kPa**
Primary –	Maximum	120	8.3	828
Secondary –				
15 PSIG Spring	Minimum	1	0.07	7
	Maximum	15	1.0	103
30 PSIG Spring	Minimum	6	0.4	41
	Maximum	30	2.1	207
60 PSIG Spring	Minimum	6	0.4	41
	Maximum	60	4.1	414
110 PSIG Spring	Minimum	6	0.4	41
	Maximum	110	7.6	758

Operating Temperature Range ..... 32°F to 125°F (0°C to 52°C)

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

Weight ..... 0.23 lb. (0.10 kg.)

Materials of Construction

Adjusting Nut ..... Brass

Adjusting Stem & Spring ..... Steel

Poppet Return Spring ..... Stainless Steel

Body ..... Plastic

Bonnet, Seat & Piston ..... Plastic

Seals ..... Nitrile

Valve Poppet ..... Plastic & Nitrile

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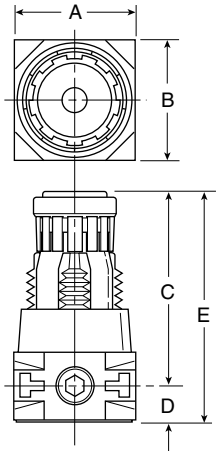
P3A-W Regulators – Miniature (Water Service)

Features

- Lightweight plastic body.
- Constructed of F.D.A. listed materials.
- Unbalanced poppet standard.
- Non-rising adjusting knob.
- Compact, 2.96 inch (75 mm) high by 1.57 inch (40 mm) wide.
- Lightweight.
- Rolling diaphragm for superior performance and life.



A Index

Port Size	NPT
Without Gauge	
1/8"	**P3A-WN91QNN**
1/4"	**P3A-WN92QNN**

Standard part numbers shown, for other models refer to ordering information below.

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

Regulator Dimensions			
A 1.57 (40)	**B** 1.57 (40)	**C** 2.50 (64)	**D** 0.46 (12)
E 2.96 (75)			

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

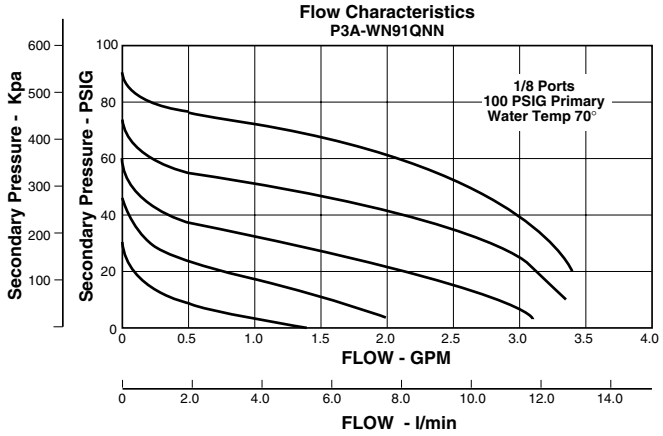
P3A-W	N	9	1	Q	N	N
Version	Port Type	Port Size	Relief / Knob	Pressure	Options
N. Unbalanced **P. Balanced**	**9. NPT Female**	**1. 1/8 Inch** **2. 1/4 Inch**	**Q. Non-Relieving, Yellow Knob**	Without Gauge **L. 60 PSIG (0 to 4 bar** **N. 120 PSIG (0 to 8 bar)** **Y. 30 PSIG (0 to 2 bar)**	**N. None**

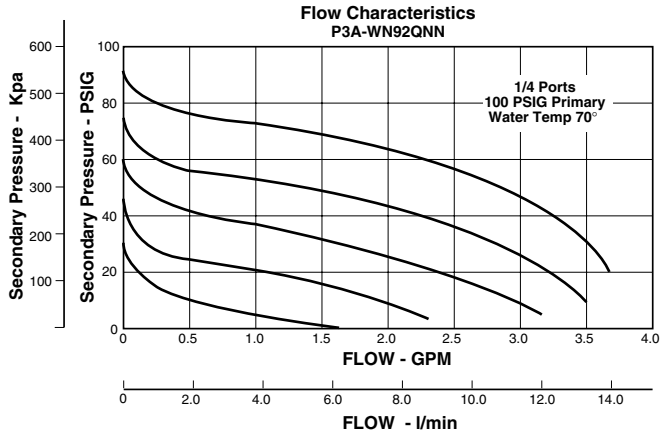
NOTE: BOLD OPTIONS ARE STANDARD.

A

A Index

Technical Information





Regulator Kits and Accessories

Panel Mount Nut P78652
Mounting Bracket Kit PS417BP
Service Kits – Piston Non-Relieving PS422
Poppet Service Kits – Balanced PS425B
Unbalanced PS424B
Springs – 1-30 PSIG Spring P78659B
1-60 PSIG Spring P00411
5-125 PSIG Spring P78660B

Specifications

Gauge Ports (2) ..... 1/8 Inch
(Can be used for full flow)
Pressure Rating –
Maximum Inlet Pressure 150 PSIG ..... (1000 kPa)
Port Threads ..... 1/8, 1/4 Inch
Temperature Rating ..... Water 40°F to 125°F (4°C to 52°C)
Weight ..... 0.23 lb. (0.10 kg.)

Materials of Construction

Adjusting Nut ..... Brass
Adjusting Stem ..... Brass
Body ..... Plastic
Bonnet, Seat & Piston ..... Plastic
Diaphragm ..... Santoprene
Seals ..... Buna N or Thermo Plastic Elastomer
Springs ..... Stainless Steel
Valve Poppet ..... Plastic / Nitrile

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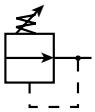
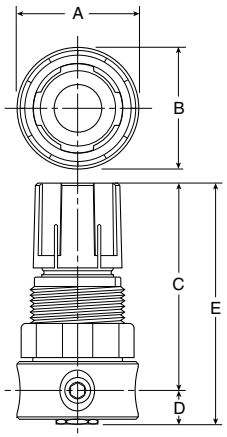
20R Regulators – Miniature (Water Service)



Features

- Rugged brass body for water service.
- Unballanced poppet standard.
- Diaphragm operated for fast response.
- Non-rising adjusting knob.
- Compact, 3.06 inch (77.79mm) high by 1.56 inch (36.69mm) wide.
- High Flow: 1.25 GPM



A Index

Port Size	NPT	BSPP
Without Gauge		
1/8"	**20R013GC**	20R013GC1
1/4"	**20R113GC**	20R113GC1

Standard part numbers shown, for other models refer to ordering information below.

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

20R Regulator Dimensions		
A 1.56 (39.8)	**B** 1.56 (39.8)	**C** 2.56 (65)
D .50 (12.7)	**E** 3.06 (77.7)	

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

20R	1	13	G	C	—

Port Size
- **0. 1/8 Inch**
- **1. 1/4 Inch**

Pressure Range
- **11. 30 PSIG**
- **12. 15 PSIG**
- **13. 125 PSIG**
- **61. 60 PSIG**

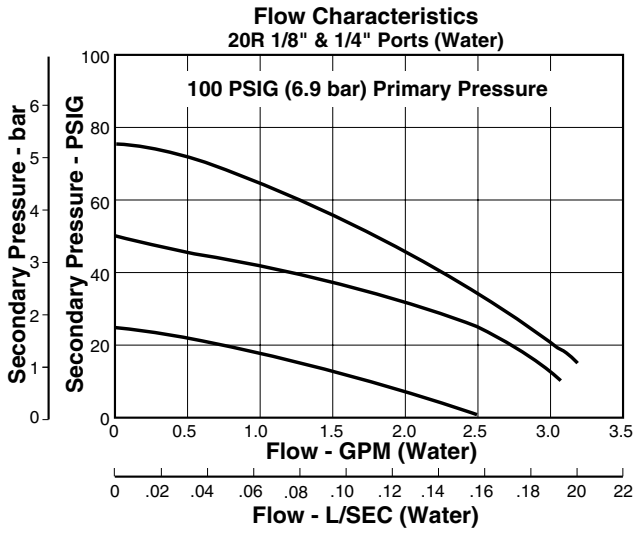
Relief
- **F. Relieving**
- **G. Non-Relieving**

Engineering Level
- **C. Current**

Port Type
- **Blank. NPT**
- 1. BSPP

NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information



20R Regulator Kits & Accessories

Bonnet Kit PCKR364Y
Bonnet Tamperproof Kit PCKR364T
Panel Mount Nut PR05X51
Mounting Bracket Kit SA161X57
Repair Kits –
Relieving PRKR164Y
Non-Relieveing PRKR163Y

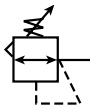
Specifications

Gauge Ports (2) ..... 1/8 Inch
Port Threads ..... 1/8, 1/4 Inch
Pressure Rating – Maximum ..... 0 to 300 PSIG (0 to 2068 kPa)
Secondary Pressure Ranges –
Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Medium Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
Medium Pressure ..... 1 to 30 PSIG (6.9 to 207 kPa)
Low Pressure ..... 1 to 15 PSIG (6.9 to 104 kPa)
Temperature Ratings ..... 32°F to 125°F (0°C to 52°C)
Weight ..... .5 lb. (.23 kg)

Materials of Construction

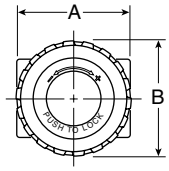
Adjusting Nut & Stem ..... Steel
Body, Valve Poppet, Bottom Plug, Diaphragm Button ..... Brass
Bonnet, Knob ..... Plastic
Seals, Diaphragm ..... Buna N
Springs ..... Steel

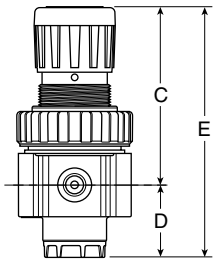
05R Regulators – Economy



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	BSPP
Without Gauge		
1/4"	**05R113AD**	05R113AD1
3/8"	**05R213AD**	05R213AD1
With 160 PSI Gauge		
1/4"	**05R118AD**	05R118AD1
3/8"	**05R218AD**	05R218AD1

05R Regulator Dimensions		
A	**B**	**C**
2.00 (51)	2.06 (52)	3.16 (80)
D	**E**	
1.28 (32)	4.44 (17)	

Inches (mm)

Standard part numbers shown, for other models refer to ordering information below.

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.

⚠ WARNING

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

Ordering Information

05R	1	13	A	D	—	—	---

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

Pressure Range
- Without Gauge
- **10. 30 PSIG**
- **11. 60 PSIG**
- **12. 15 PSIG**
- **13. 125 PSIG**
- With Gauge**
- **17. 30 PSIG**
- **16. 60 PSIG**
- **18. 125 PSIG**
- **19. 200 PSIG**

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

Relief
- **A. Relieving**
- L. Non-Relieving

Engineering Level
- **D. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options
- **Blank. No Options**
- L.† Preset Non-Adjustable
- P.† Preset Adjustable
- S.† Pressure Limiter Max. Adjustable
- T.† Pressure Limiter Max. Non- Adjustable
- V. Fluorocarbon

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

Preset / Pressure Limited
- **Blank. None**
- XXX* Preset Pressure
- XXX* Pressure Limited

* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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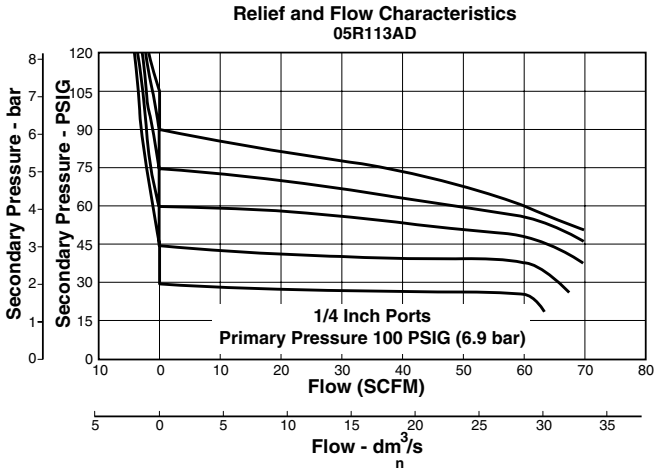
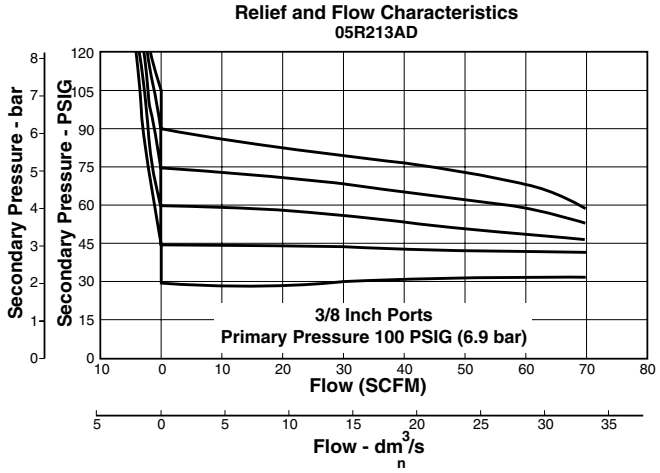
Technical Information





05R Regulator Kits & Accessories

Bonnet Assembly Kit PS915P
Control Knob P04420
Gauges – 1-1/2" Dial Face
30 PSIG (0 to 200 kPa) RRP-96-663
60 PSIG (0 to 400 kPa) RRP-96-664
160 PSIG (0 to 1100 kPa) RRP-96-665
300 PSIG (0 to 2000 kPa) RRP-96-666
2" Dial Face
60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit PS963P
Panel Mount Nut –Metal PS964P
Springs – 1-30 PSIG Range P04427
1-60 PSIG Range P04426
2-125 PSIG Range P04425
2-200 PSIG P02934
Service Kit – Relieving PS908P
Relieving (Fluorocarbon) PS908VP
Non-Relieving PS909P
Non-Relieving (Fluorocarbon) PS909VP

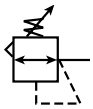
Specifications

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)
Weight ..... 1.1 lb. (.49 kg)

Materials of Construction

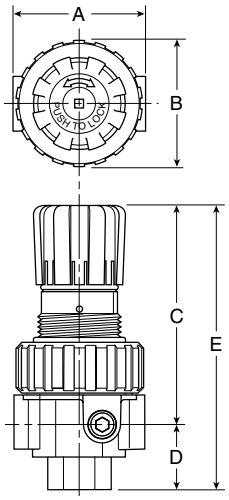
Adjusting Stem ..... Brass
Bonnet ..... Plastic
Body ..... Zinc
Collar, Knob ..... Plastic
Diaphragm ..... Nitrile
Poppet & Cap ..... Plastic
Seals ..... Nitrile
Springs – Poppet & Control ..... Steel

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	BSPP
Without Gauge		
1/4"	**06R113AC**	06R113AC1
3/8"	**06R213AC**	06R213AC1
1/2"	**06R313AC**	06R313AC1
With 160 PSI Gauge		
1/4"	**06R118AC**	06R118AC1
3/8"	**06R218AC**	06R218AC1
1/2"	**06R318AC**	06R318AC1

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

Inches (mm)

Standard part numbers shown, for other models refer to ordering information below.

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

06R	1	13	A	C	—	—	---

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

Pressure Range
- Without Gauge
- **10. 30 PSIG**
- **11. 60 PSIG**
- **13. 125 PSIG**
- **15. 250 PSIG**
- With Gauge
- **17. 30 PSIG**
- **16. 60 PSIG**
- **18. 125 PSIG**
- **21. 250 PSIG**

Relief
- **A. Relieving**
- L. Non-Relieving

Engineering Level
- **C. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options
- **Blank. No Options**
- L.† Preset Non-Adjustable
- P.† Preset Adjustable
- R. Reverse Flow

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

Preset
- **Blank. None**
- XXX* Preset Pressure

* Available Preset Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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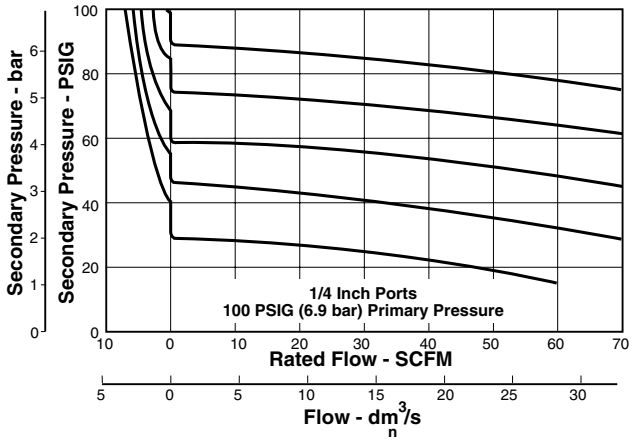
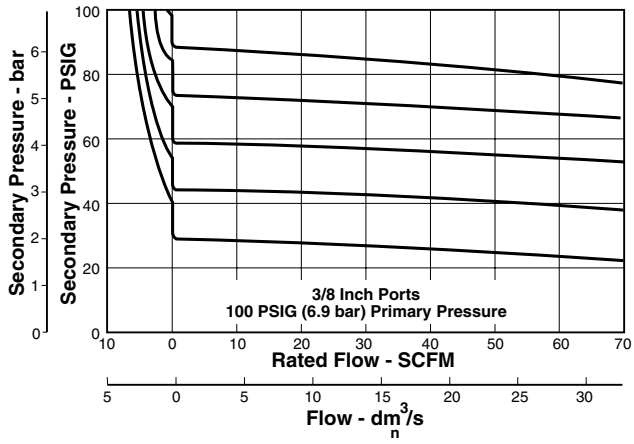
Technical Information

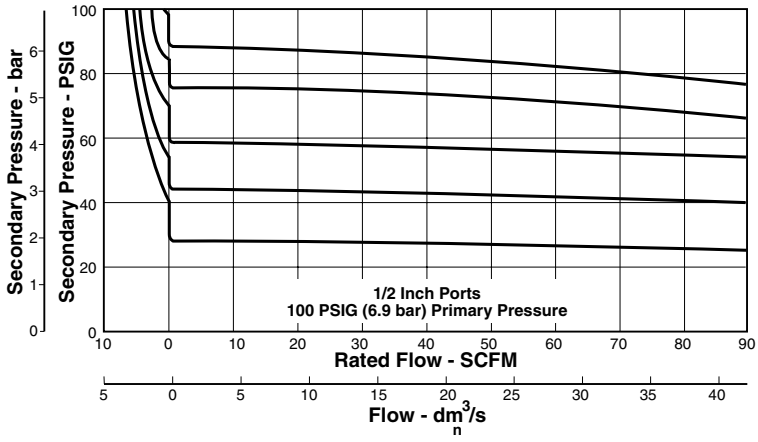
Relief And Flow Characteristics
06R113AC



Relief And Flow Characteristics
06R213AC



Relief And Flow Characteristics
06R313AC



06R Regulator Kits & Accessories

Bonnet Assembly Kit PS715P
Control Knob P04069B
Gauges – 60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit (Includes Panel Mount Nut) PS707P
Panel Mount Nut – Plastic P04082
Metal P04079B
Reverse Flow Service Conversion Kit –
Relieving PS708RP
Non-Relieving PS709RP
Service Kit – Relieving (Includes Poppet) PS708P
Non-Relieving (Includes Poppet) PS709P
Springs – 1-30 PSIG Range P01698
1-60 PSIG Range P04062
2-125 PSIG Range P04063
5-250 PSIG Range P04064
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 (1725 kPa)
Secondary Pressure Ranges –
Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Low Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
High Pressure ..... 5 to 250 PSIG (35 to 1725 kPa)
Temperature Rating ..... 32°F to 175°F (0°C to 80°C)
Weight ..... 1.6 lb. (.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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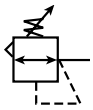
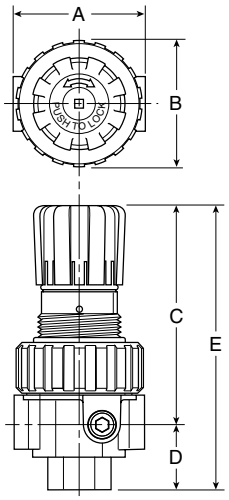
07R Regulators – Standard



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§



A Index

Port Size	NPT	BSPP
Without Gauge		
3/8"	**07R213AC**	07R213AC1
1/2"	**07R313AC**	07R313AC1
3/4"	**07R413AC**	07R413AC1
With 160 PSI Gauge		
3/8"	**07R218AC**	07R218AC1
1/2"	**07R318AC**	07R318AC1
3/4"	**07R418AC**	07R418AC1

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)

Standard part numbers shown, for other models refer to ordering information below.

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

07R	3	13	A	C	—	—	---

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

Pressure Range

Without Gauge
- **10. 30 PSIG**
- **11. 60 PSIG**
- **13. 125 PSIG**
- **15. 250 PSIG**

With Gauge
- **17. 30 PSIG**
- **16. 60 PSIG**
- **18. 125 PSIG**
- **21. 250 PSIG**

Relief
- **A. Relieving**
- L. Non-Relieving

Engineering Level
- **C. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options
- **Blank. No Options**
- L.† Preset Non-Adjustable
- P.† Preset Adjustable
- R. Reverse Flow

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

Preset
- **Blank. None**
- XXX* Preset Pressure

* Available Preset Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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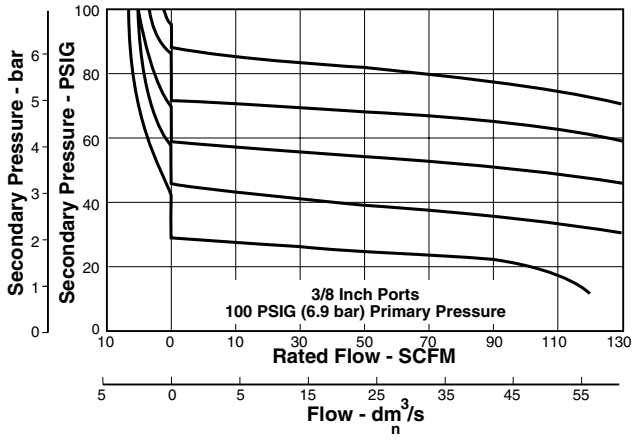
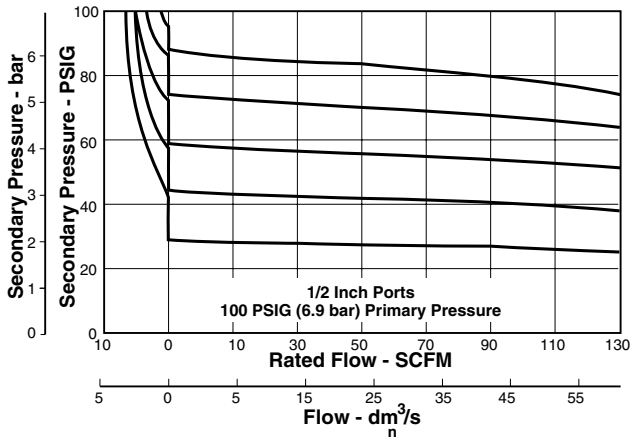
Technical Information

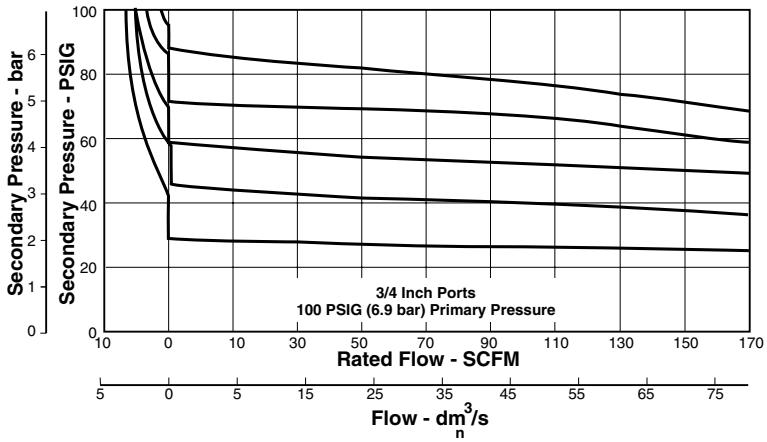
Relief And Flow Characteristics
07R213A



Relief And Flow Characteristics
07R313A



Relief And Flow Characteristics
07R413A



07R Regulator Kits & Accessories

Bonnet Assembly Kit PS715P
Control Knob P04069B
Gauges – 60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit (Includes Panel Mount Nut) PS807P
Panel Mount Nut – Plastic P04082
Metal P04079B
Reverse Flow Service Conversion Kit –
Relieving PS808RP
Non-Relieving PS809RP
Service Kit – Relieving (Includes Poppet) PS808P
Non-Relieving (Includes Poppet) PS809P
Springs – 1-30 PSIG Range P01698
1-60 PSIG Range P04062
2-125 PSIG Range P04063
5-250 PSIG Range P04064
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 (1725 kPa)
Secondary Pressure Ranges –
Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Low Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
High Pressure ..... 5 to 250 PSIG (35 to 1725 kPa)
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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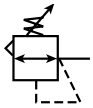
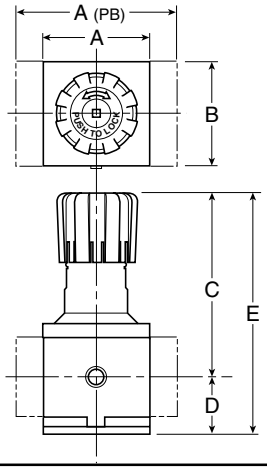
P3NR Regulators – Hi-Flow



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 §
  1-1/2" – 300 SCFM §



Port Size	NPT	BSPP
Without Gauge		
3/4"	**P3NRA96BNN**	P3NRA16BNN
1"	**P3NRA98BNN**	P3NRA18BNN
1-1/2" #	**P3NRA9PBNN**	P3NRA1PBNN
With 160 PSI Gauge		
3/4"	**P3NRA96BNG**	P3NRA16BNG
1"	**P3NRA98BNG**	P3NRA18BNG
1-1/2" #	**P3NRA9PBNG**	P3NRA1PBNG

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)

Standard part numbers shown, for other models refer to ordering information below.

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

§ 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
1. G Thread (BSPP) Female
2. Rc Thread (BSPT) Female
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)

Relief
B. Relieving
N. Non-Relieving

Adjustment
N. Non-Rising Knob

Pressure Gauge
w/o Gauge
L. 60 PSI (0 to 4 bar)
N. 125 PSI (0 to 8 bar)
H. 250 PSI (0 to 17 bar)
w/ Gauge
M. 60 PSI (0 to 4 bar)
G. 125 PSI (0 to 8 bar)
J. 250 PSI (0 to 17 bar)

NOTE: BOLD OPTIONS ARE STANDARD.

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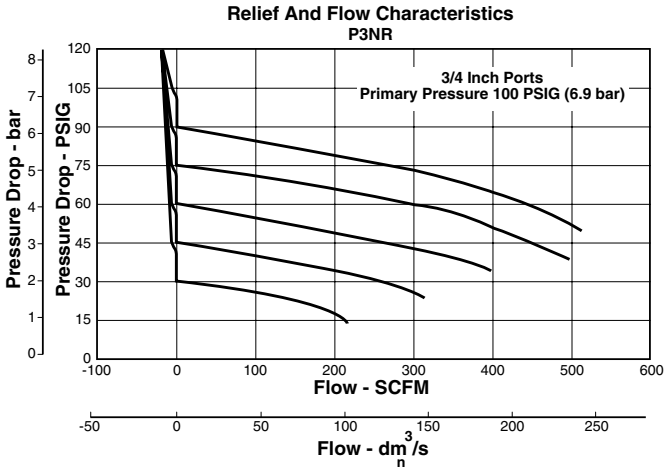
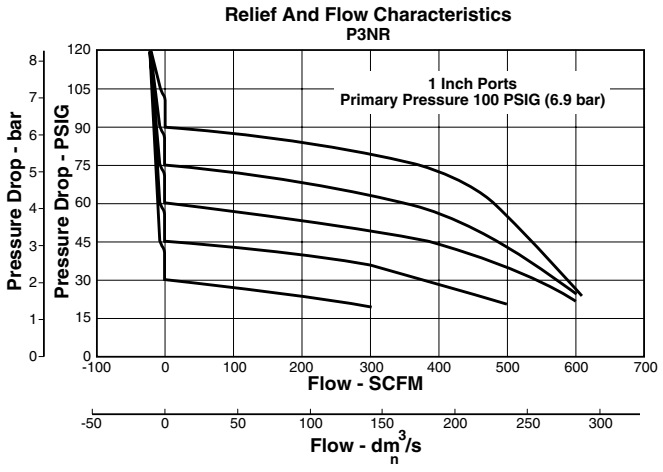
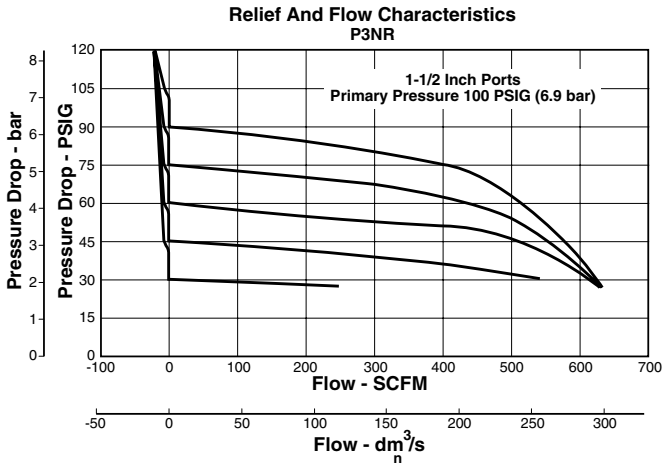
Technical Information







P3NR Regulator Kits & Accessories

Control Knob P3NKA00PN

Gauges – 60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643

Pressure Sensor – 0 to 145 PSI MPS-P31N-PC

Mounting Bracket Kit* P3NKA00MW

Service Kit – Relieving P3NKA00RR
Non-Relieving P3NKA00RN

Springs – 1-60 PSIG Range C10A1304
2-125 PSIG Range C10A1308
5-250 PSIG Range C10A1317

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

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 (1725 kPa)

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)
1-1/2" # ..... 5.3 lb. (2.4 kg)

Materials of Construction

Adjusting Stem ..... Steel

Body ..... Aluminum

Bonnet ..... Aluminum

Knob ..... Plastic

Piston ..... Plastic

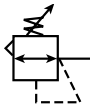
Poppet Assembly ..... Brass

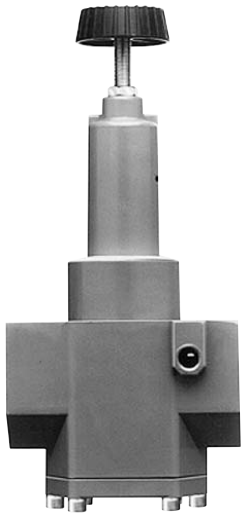
Seals ..... Nitrile

Springs – Poppet & Control ..... Steel

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

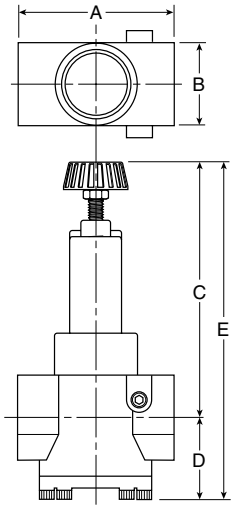
09R Regulators – Hi-Flow





Features

- Piston design for reduced downtime.
- High flow.
- Balanced poppet for quick and accurate regulation.
- Two full flow 1/4" gauge ports which can be used as additional outlets.
- Self relieving piston standard.
- High Flow: 2" – 1000 SCFM§



Port Size	NPT
Without Gauge	
2"	**09R813BA**

Standard part numbers shown, for other models refer to ordering information below.

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

09R Regulator Dimensions		
A 5.30 (135)	**B** 3.60 (91)	**C** 9.10 (231)
D 2.80 (71)	**E** 11.90 (302)	

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

09R	8	13	B	A

Port Size
8. 2 Inch

Pressure Range
13. 125 PSIG

Relief
B. Relieving
M. Non-Relieving

Engineering Level
A. Current

NOTE: BOLD OPTIONS ARE STANDARD.

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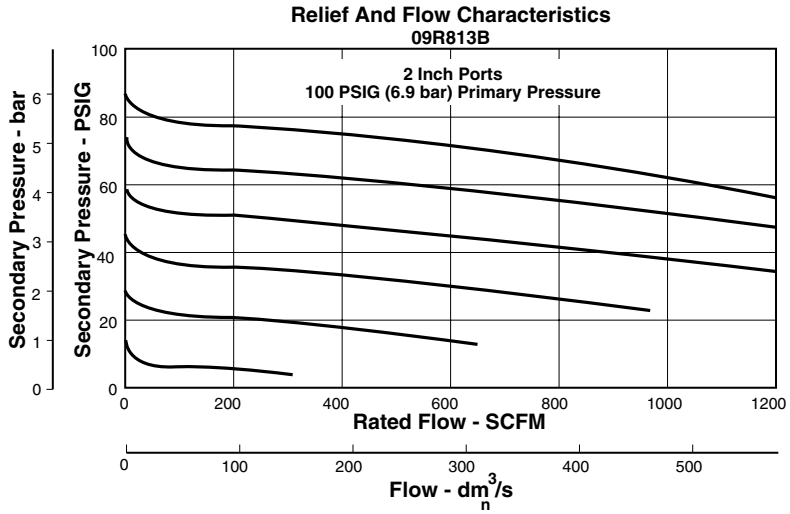


09R Regulator Kits & Accessories

Body Service Kit PS603P
Gauges – 160 PSIG (0 to 1100 kPa) P781642
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit PS605P
Service Kit –Non-Relieving PS604P
Service Kit –Relieving PS626P
Springs – 2-125 PSIG Range PS602P

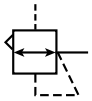
Specifications

Gauge Ports (2) ..... 1/4 Inch
(Can be used as additional Full Flow 1/4 Inch Outlet Ports)
Port Threads ..... 2 Inch
Primary Pressure Rating –
Maximum Primary Pressure ..... 250 PSIG (1725 kPa)
Secondary Pressure Range – ..... 10 to 125 PSIG (69 to 863 kPa)
Temperature Rating ..... 32°F to 150°F (0°C to 66°C)
Weight ..... 10.82 lb. (53 kg)

Materials of Construction

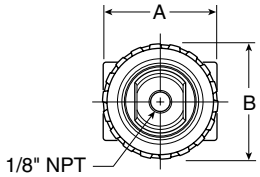
Adjusting Stem & Springs ..... Steel
Body ..... Zinc Alloy, Die Cast
Bonnet, Piston Stem, Valve Poppet & Cap ..... Aluminum
Piston, Cap ..... Plastic
Seals ..... Nitrile

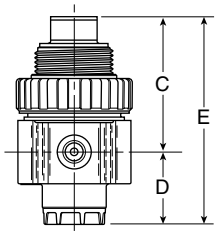
10R Pilot Controlled Regulator – Economy



Features

- Unique balanced poppet valve minimizes secondary pressure fluctuations.
- Solid control piston with resilient seat for service-free operation.
- Easily serviced.
- High Flow: 1/4" – 50 SCFM §
  3/8" – 50 SCFM §





Port Size	NPT	BSPP
Without Gauge		
1/4"	**10R115PB**	10R115PB1
3/8"	**10R215PB**	10R215PB1
With 160 PSI Gauge		
1/4"	**10R121PB**	10R121PB1
3/8"	**10R221PB**	10R221PB1

10R Regulator Dimensions		
A 2.00 (51)	**B** 2.06 (52)	**C** 2.43 (61)
D 1.28 (32)	**E** 3.71 (93)	

Inches (mm)

Standard part numbers shown, for other models refer to ordering information below.

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.

⚠ WARNING

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

Ordering Information

10R	1	15	P	B	—	—

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

Relief / Gauge Options
Without Gauge
14. Non-Relieving
15. Relieving
* With Gauge
19. Non-Relieving
21. Relieving

* Includes 1-1/2" Dial Face Gauge

Adjustment
P. Pilot Operated

Engineering Level
B. Current

Port Type
Blank. NPT
1. BSPP
2. BSPT

Options
Blank. No Options
V. Fluorocarbon

NOTE: BOLD OPTIONS ARE STANDARD.

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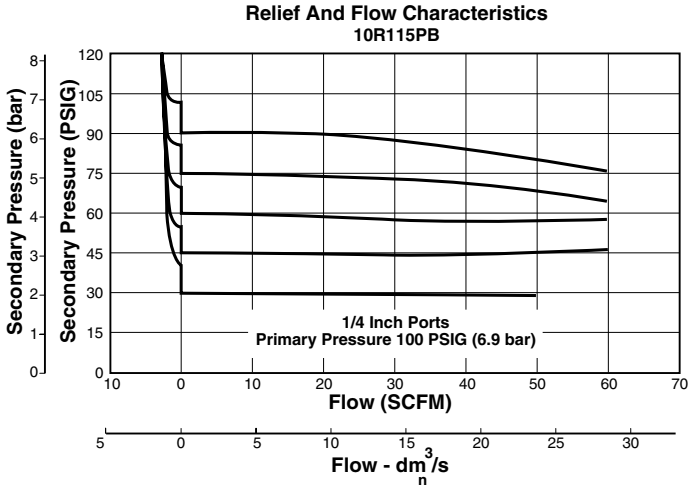
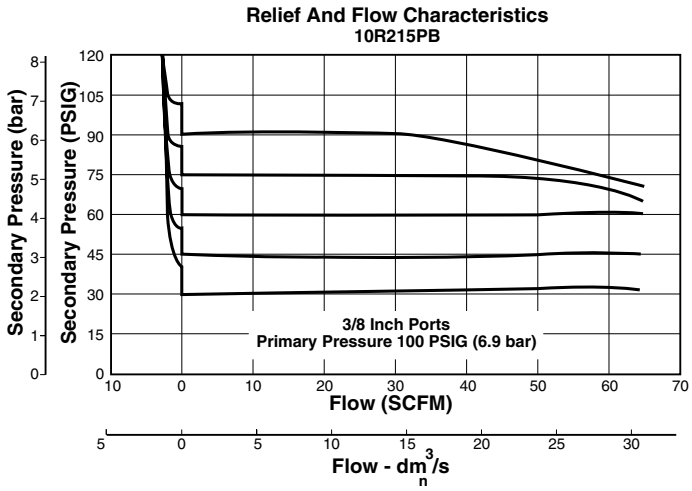
Technical Information





10R Pilot Regulator Kits & Accessories

Gauges – 1-1/2" Dial Face
- 30 PSIG (0 to 200 kPa) RRP-96-663
- 60 PSIG (0 to 400 kPa) RRP-96-664
- 160 PSIG (0 to 1100 kPa) RRP-96-665
- 300 PSIG (0 to 2000 kPa) RRP-96-666

2" Dial Face
- 60 PSIG (0 to 400 kPa) P781641
- 160 PSIG (0 to 1100 kPa) P781642
- 300 PSIG (0 to 2000 kPa) P781643

Mounting Bracket Kit PS963P
Non-Relieving Service Kit PS947P
Panel Mount Nut – Metal PS964P
Pilot Conversion Kit PS945P
Relieving Service Kit PS949P

Specifications

Gauge Ports (2) ..... 1/4 Inch
Port Threads ..... 1/4, 3/8 Inch
Pressure & Temperature Rating – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
Weight ..... .90 lb. (.41 kg)

Materials of Construction

Body ..... Zinc
Piston & Poppet ..... Plastic
Seals ..... Nitrile
Spring – Poppet ..... Steel

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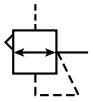
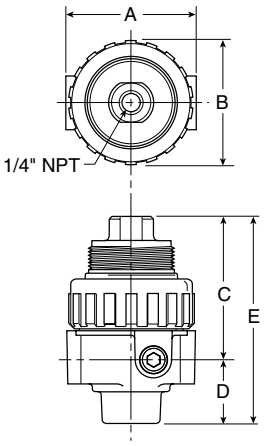
11R Pilot Controlled Regulator – Compact



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 §



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Port Size	NPT	BSPP
Without Gauge		
1/4"	**11R115PC**	11R115PC1
3/8"	**11R215PC**	11R215PC1
1/2"	**11R315PC**	11R315PC1
With 160 PSI Gauge		
1/4"	**11R121PC**	11R121PC1
3/8"	**11R221PC**	11R221PC1
1/2"	**11R321PC**	11R321PC1

Standard part numbers shown, for other models refer to ordering information below.

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 Regulator Dimensions		
A	**B**	**C**
2.81 (71)	2.74 (70)	3.05 (77)
D	**E**	
1.39 (35)	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	C	—

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

Relief / Gauge Options

Without Gauge
- 14. Non-Relieving Piston
- **15. Relieving Piston**

With Gauge
- 19. Non-Relieving Piston
- **21. Relieving Piston**

Adjustment
- **P. Pilot Operated**

Engineering Level
- **C. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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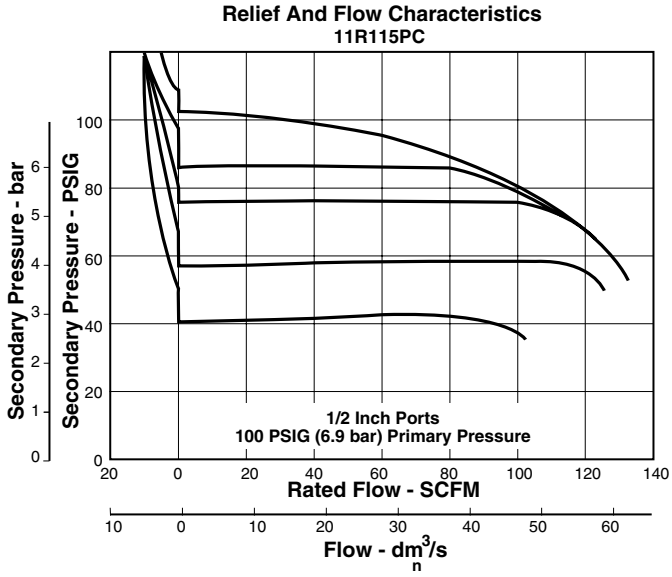
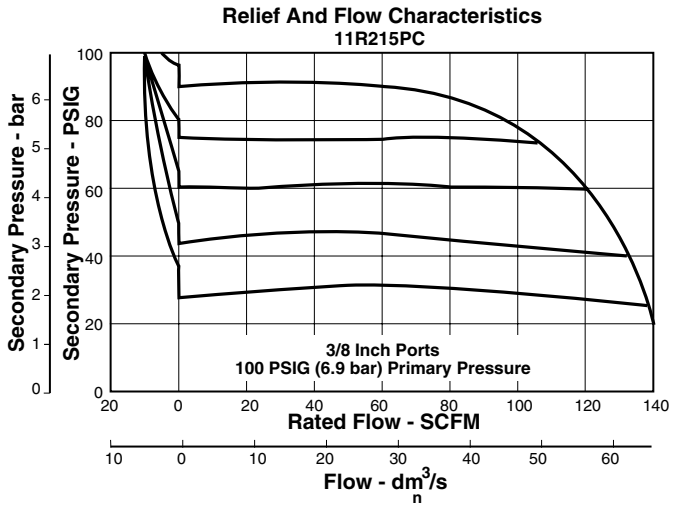
Technical Information





11R Pilot Regulator Kits & Accessories

Body Service Kits – Seat Insert Kit PS713P
Gauges – 60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Mounting Bracket Kit (Includes Panel Mount Nut) PS707P
Panel Mount Nut – Plastic P04082
Metal P04079
Pilot Conversion Kit – Relieving PS745P
Service Kits – Non-Relieving PS747P
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 1725 kPa)
32°F to 175°F (0°C to 80°C)
Weight ..... 1.3 lb. (.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

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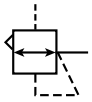
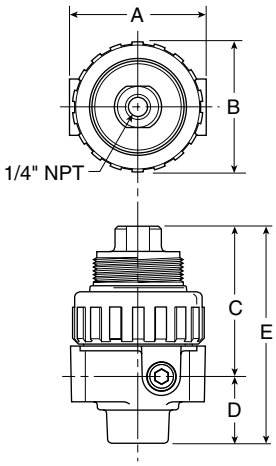


Features

- 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	BSPP
Without Gauge		
3/8"	**12R215PB**	12R215PB1
1/2"	**12R315PB**	12R315PB1
3/4"	**12R415PB**	12R415PB1
With 160 PSI Gauge		
3/8"	**12R221PB**	12R221PB1
1/2"	**12R321PB**	12R321PB1
3/4"	**12R421PB**	12R421PB1

12R Regulator Dimensions

A	B	C
3.24 (82)	2.74 (70)	3.15 (80)
D	**E**	
1.61 (41)	4.76 (121)	

Inches (mm)

Standard part numbers shown, for other models refer to ordering information below.

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.

⚠ 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	B	—

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

Relief / Gauge Options

Without Gauge
- 14. Non-Relieving Piston
- **15. Relieving Piston**

With Gauge
- 19. Non-Relieving Piston
- **21. Relieving Piston**

Adjustment
- **P. Pilot Operated**

Engineering Level
- **B. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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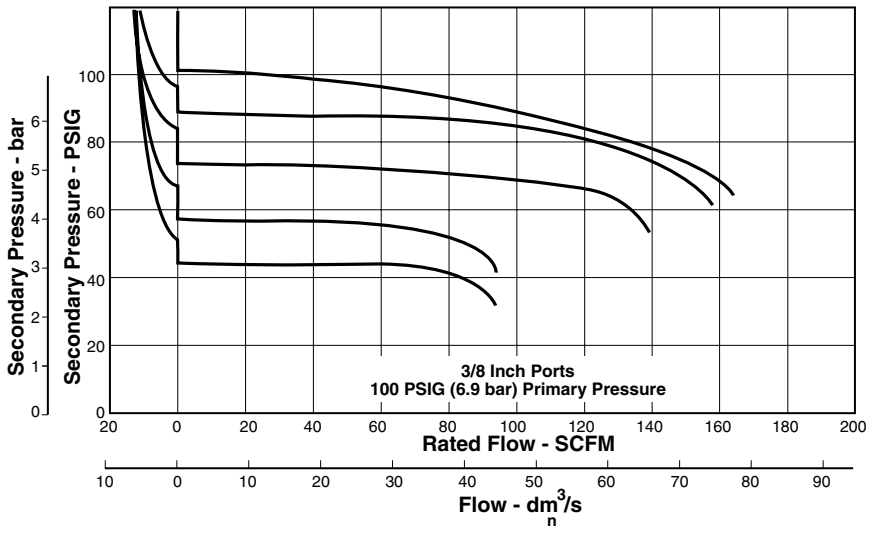
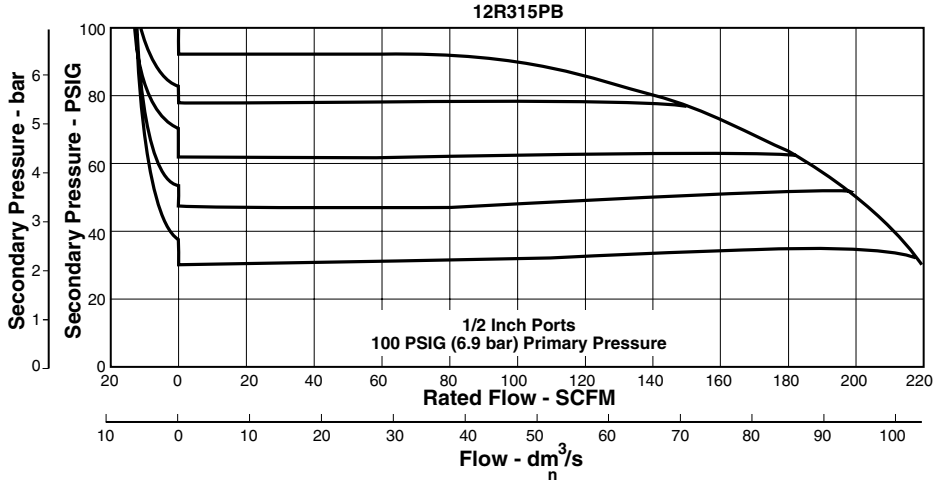
Technical Information

Relief And Flow Characteristics
12R215PB



Relief And Flow Characteristics
12R315PB



12R Pilot Regulator Kits & Accessories

Body Service Kits – Seat Insert Kit PS813P
Gauges – 60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Mounting Bracket Kit (Includes Panel Mount Nut) PS807P
Panel Mount Nut – Plastic P04082
Metal P04079
Pilot Conversion Kit – Relieving PS745P
Service Kits – Non-Relieving PS847P
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 1725 kPa)
32°F to 175°F (0°C to 80°C)
Weight ..... 2.0 lb. (.91 kg)

Materials of Construction

Body & Pilot Cap ..... Zinc
Piston, Valve Poppet, & Collar ..... Plastic
Seals ..... Nitrile
Springs ..... Steel

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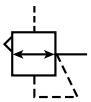
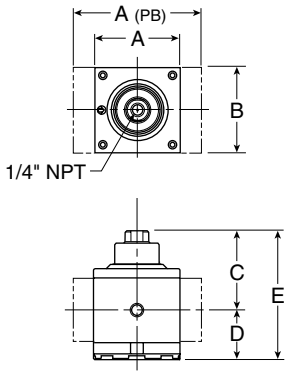
P3NR Pilot Controlled Regulator - Hi-Flow



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" – 300 SCFM §
  1" – 300 SCFM §
  1-1/2" – 350 SCFM §



Port Size	NPT	BSPP
Without Gauge		
3/4"	**P3NRA96BPP**	P3NRA16BPP
1"	**P3NRA98BPP**	P3NRA18BPP
1-1/2"	**P3NRA9PBPP**	P3NRA1PBPP
With 160 PSI Gauge		
3/4"	**P3NRA96BPG**	P3NRA16BPG
1"	**P3NRA98BPG**	P3NRA18BPG
1-1/2"	**P3NRA9PBPG**	P3NRA1PBPG

P3NR Regulator Dimensions		
A 3.62 (92)	**A (PB)** 5.91 (150)	**B** 3.62 (92)
C 3.38 (86)	**D** 2.08 (53)	**E** 5.46 (139)

Inches (mm)

Standard part numbers shown, for other models refer to ordering information below.

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

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG 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	P	P

Design Level

Port Type
1. G Thread (BSPP) Female
2. Rc Thread (BSPT) Female
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)

Relief
B. Relieving
N. Non-Relieving

Adjustment
P. Pilot Operated

Pressure Gauge
Without Gauge
P. Pilot Operator
With Gauge
M. 60 PSI (0 to 4 bar)
G. 125 PSI (0 to 8 bar)
J. 250 PSI (0 to 17.2 bar)

NOTE: BOLD OPTIONS ARE STANDARD.

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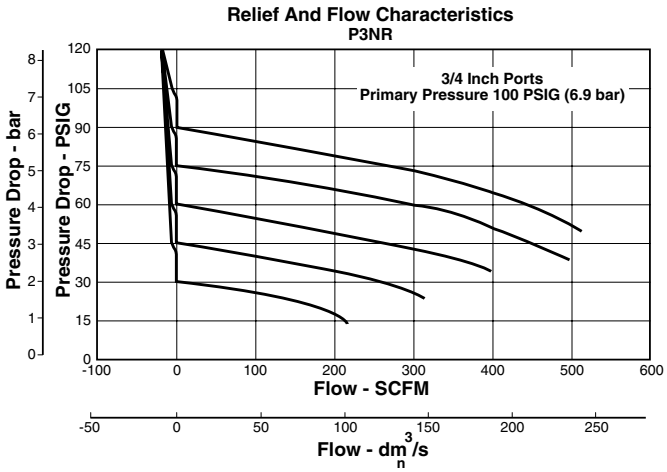
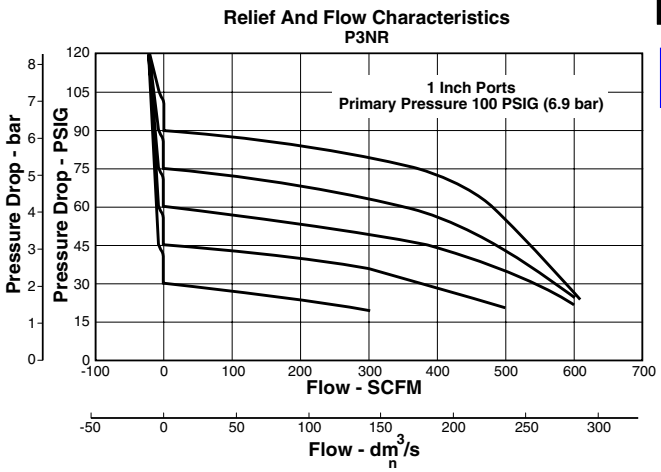
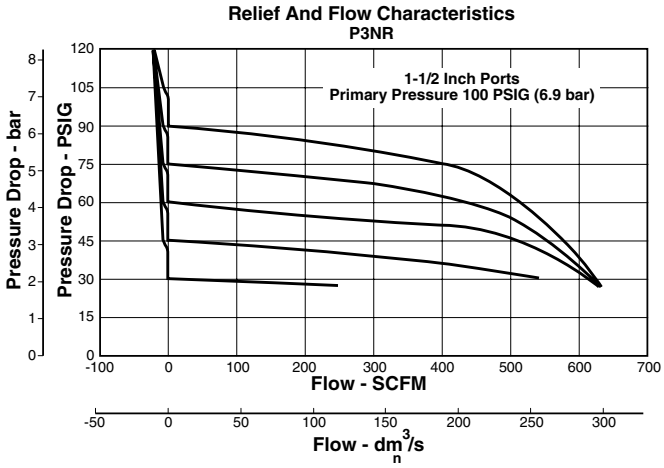
Technical Information







P3NR Pilot Regulator Kits & Accessories

Gauges – 60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643

Mounting Bracket Kit* P3NKA00MW

Service Kit – Relieving P3NKA00PD
Non-Relieving P3NKA00PT

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

Specifications

Gauge Ports (2) ..... 1/4 Inch

Port Threads ..... 3/4, 1, 1-1/2# Inch

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

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

Weight –
3/4" ..... 3.3 lb. (1.5 kg)
1" ..... 3.3 lb. (1.5 kg)
1-1/2" # ..... 4.4 lb. (2.0 kg)

Materials of Construction

Adjusting Stem ..... Steel

Body ..... Aluminum

Bonnet ..... Aluminum

Piston ..... Plastic

Poppet Assembly ..... Brass

Seals ..... Nitrile

Springs – Poppet ..... Steel

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

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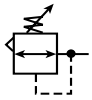
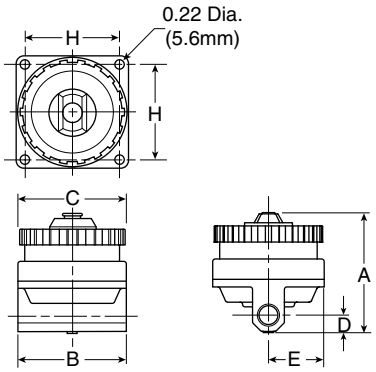
51R Regulator – Relieving



Features

- Pressure reference indicating dial face.
- Non-rising, pressure-adjustment dial.
- Self-relieving.
- Full pressure adjustment in less than one full turn.
- Recommended for pilot-air applications.
- Flow capacity: 1/4" – 0.7 SCFM*



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Port Size	Standard Pressure 5 to 160 PSIG (0.34 to 11 bar)	Low Pressure 2 to 40 PSIG (0.14 to 3 bar)
1/4"	**51R126RA**	**51R125RA**

Standard part numbers shown; for other models refer to ordering information below.

* Inlet pressure 100 psig (6.9 bar). Secondary pressure 90 psig (6.2 bar).
SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no-flow secondary setting and 25 PSIG pressure drop.

51R Regulator Dimensions		
A	**B**	**C**
2.80 (71)	2.60 (66)	2.60 (66)
D	**E**	**H**
0.40 (10)	1.30 (33)	2.20 (55.9)

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

51R	1	26	R	A	—

Port Size	Springs	Relief	Engineering Level	Thread Type
1. 1/4 Inch	**25. 2 to 40 PSIG** **26. 5 to 160 PSIG**	**R. Relieving**	**A. Current**	**Blank. NPT** 1. BSPP

NOTE: Bold items are standard.

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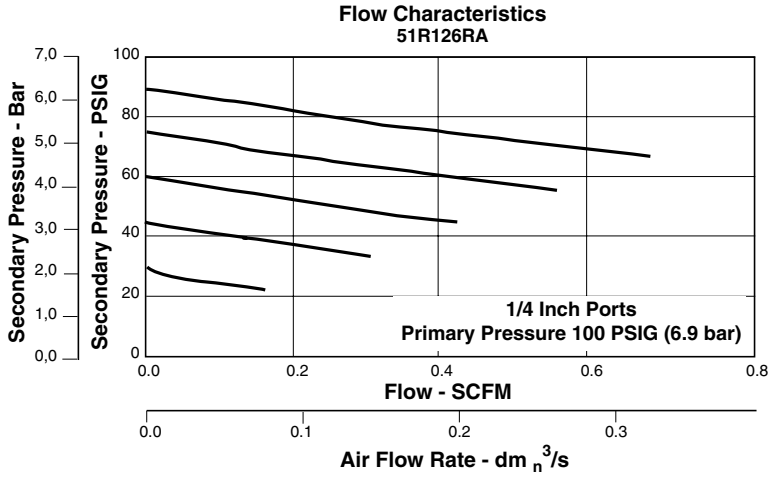
Technical Information



51R Regulator Kits & Accessories

Adjustment Dial Knob RRP-16-024-80
O-ring, Repair Kit GRP-95-260-80
Piston and Bonnet Repair Kit RRP-95-765-80
Spring, Regulation, Belleville Washer
2 to 40 PSIG (276 kPa) RRP-95-906-80
5 to 160 PSIG (1103 kPa) RRP-95-905-80
Tamper Resistant Kit RRP-95-585-80
Valve, Pilot with O-ring and Valve Spring RRP-96-934-80

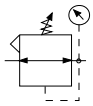
Specifications

Adjusting Range Pressure ..... 2 to 40 PSIG (14 to 276 kPa)
5 to 160 PSIG (34 to 1103 kPa)
Bleed Rate ..... 0.05 SCFM
Maximum Operating Temperature ..... 150°F (65.5°C)
Maximum Supply Pressure ..... 300 PSIG (2068 kPa)
Port Threads ..... 1/4"
Weight ..... 1.3 lb. (0.5 kg)

Materials of Construction

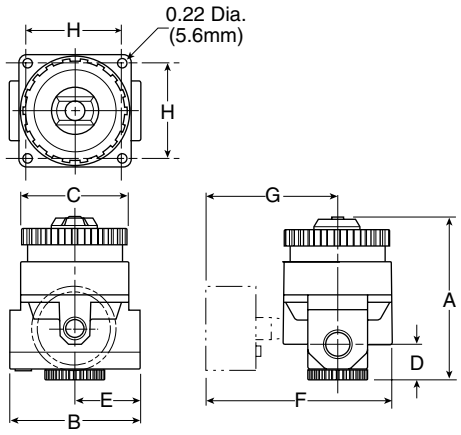
Body ..... Zinc
Bonnet ..... Zinc / Brass
Piston ..... Acetal
Seals ..... Nitrile
Springs ..... Steel
Valve Assembly ..... Brass / Nitrile / Acetal

52R Regulator – Relieving



Features

- Balanced poppet design.
- Non-rising, pressure-adjusting dial.
- High-relief flow (3/16" relief orifice).
- Two 1/4" gauge ports.
- Piston operated.
- Flow capacity: 1/4" – 117 SCFM*
  3/8" – 180 SCFM*
  1/2" – 195 SCFM*
  3/4" – 220 SCFM*



A Index

Port Size	High Flow 5 to 160 PSIG (0.34 to 11 bar)	Low Pressure 2 to 40 PSIG (0.14 to 3 bar)
1/4"	**52R126RA**	**52R125RA**
3/8"	**52R226RA**	**52R225RA**
1/2"	**52R326RA**	**52R325RA**
3/4"	**52R426RA**	**52R425RA**

Standard part numbers shown; for other models refer to ordering information below.

* Inlet pressure 100 PSIG (6.9 bar). Secondary pressure (1/4, 1/2 & 3/4) 90 PSIG (6.2 bar); (3/8) 80 PSIG (5.5 bar).
SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no-flow secondary setting and 25 PSIG pressure drop.

52R Regulator Dimensions		
A 4.10 (104)	**B** 3.20 (81)	**C** 2.60 (66)
D 0.95 (24)	**E** 1.60 (41)	**F** 4.30 (109)
G 2.70 (68.5)	**H** 2.20 (55.9)	

Inches (mm)

⚠ WARNING

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

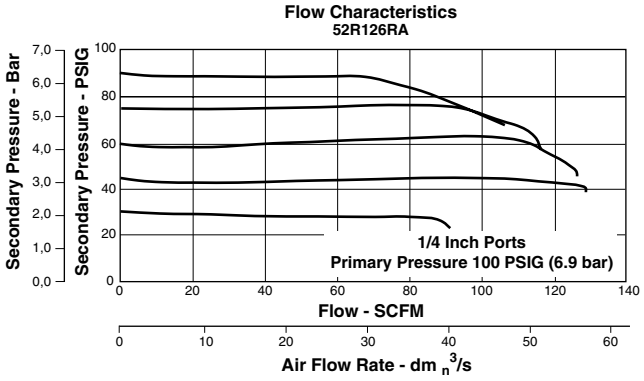
Ordering Information

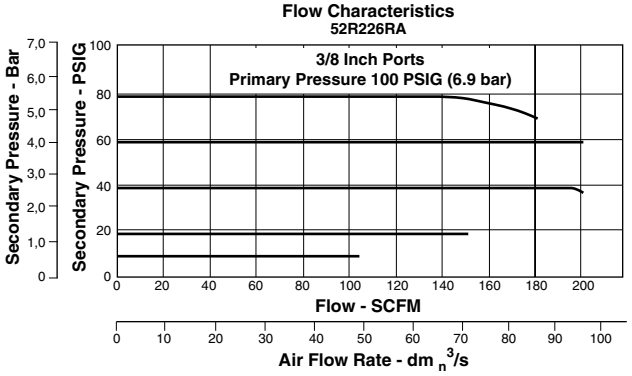
52R	1	26	R	A	—

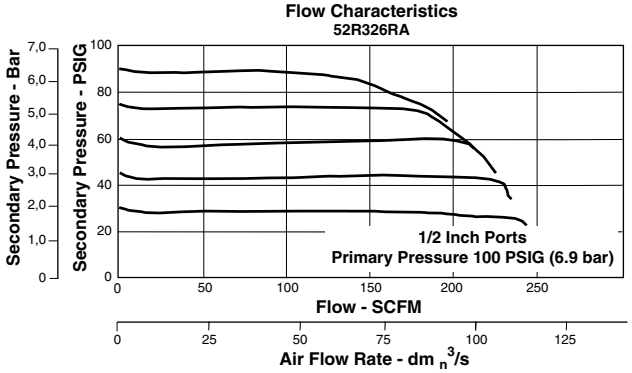
Port Size	Springs	Relief	Engineering Level	Thread Type
1. 1/4 Inch	**25. 2 to 40 PSIG**	**R. Relieving**	**A. Current**	**Blank. NPT**
2. 3/8 Inch	**26. 5 to 160 PSIG**			1. BSPP
3. 1/2 Inch				
4. 3/4 Inch				

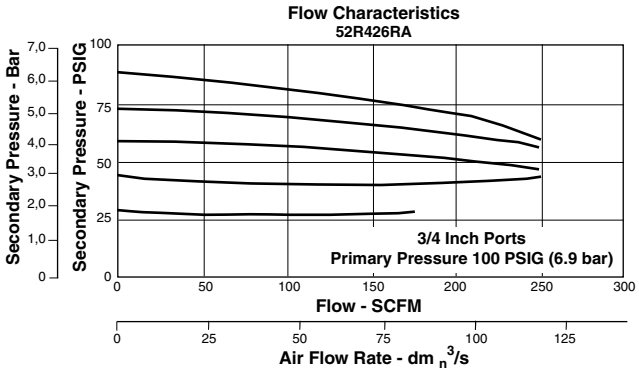
NOTE: Bold items are standard.

Technical Information









52R Regulator Kits & Accessories

Adjustment Dial Knob RRP-16-024-80
O-ring, Repair Kit GRP-95-260-80
Piston Bottom and O-ring Seal RRP-95-192-80
Pistons and Bonnet Repair Kit RRP-95-766-80
Spring, Regulation, Belleville Washer
2 to 40 PSIG Range RRP-95-906-80
5 to 160 PSIG Range RRP-95-905-80
Tamper Resistant Kit RRP-95-585-80
Valve, Main with U-Cup Seal & Bottom Plug RRP-95-914-80
Valve, Main with U-Cup Seal RRP-95-151-80
Valve, Pilot with O-ring and Valve Spring RRP-96-934-80

Specifications

Adjusting Range Pressure ..... 2 to 40 PSIG (14 to 276 kPa)
5 to 160 PSIG (34 to 1103 kPa)
Bleed Rate ..... 0.05 SCFM
Gauge Ports ..... Two Ports 1/4"
(Can be used as additional High Flow 1/4 Inch Outlet Ports)
Maximum Operating Temperature ..... 150°F (65.5°C)
Maximum Supply Pressure ..... 300 PSIG (2068 kPa)
Port Threads ..... 1/4", 3/8", 1/2", 3/4"
Weight ..... 2.3 lb. (1.04 kg)

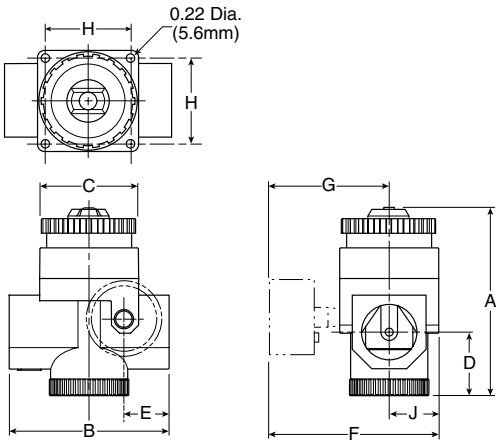
Materials of Construction

Body ..... Zinc
Bonnet ..... Zinc / Brass
Piston ..... Acetal
Seals ..... Nitrile
Springs ..... Steel
Valve Assembly ..... Brass / Nitrile / Acetal

53R Regulator – Relieving

Features

- Balanced poppet design.
- Non-rising, pressure-adjusting dial.
- High-relief flow (3/16" relief orifice).
- Two 1/4" gauge ports.
- Piston operated.
- Flow capacity: 3/4" – 400 SCFM*
  1" – 650 SCFM*
  1-1/4" – 700 SCFM*



Port Size	High Flow 5 to 160 PSIG (0.34 to 11 bar)	Low Pressure 2 to 40 PSIG (0.14 to 3 bar)
3/4"	**53R426RA**	**53R425RA**
1"	**53R526RA**	**53R525RA**
1-1/4"	**53R626RA**	**53R625RA**

Standard part numbers shown; for other models refer to ordering information below.

* Inlet pressure 100 PSIG (6.9 bar). Secondary pressure 80 PSIG (5.5 bar).
SCFM = Standard cubic feet per minute at 100 PSIG inlet,
90 PSIG no-flow secondary setting and 25 PSIG pressure drop.

53R Regulator Dimensions		
A 5.20 (132)	**B** 4.30 (109)	**C** 2.60 (66)
D 1.70 (43)	**E** 1.23 (31.2)	**F** 4.30 (109)
G 3.00 (76)	**H** 2.20 (55.9)	**J** 1.31 (33.3)

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

53R	4	26	R	A	—

Port Size
4. 3/4 Inch
5. 1 Inch
6. 1-1/4 Inch

Springs
25. 2 to 40 PSIG
26. 5 to 160 PSIG

Relief
R. Relieving

Engineering Level
A. Current

Thread Type
Blank. NPT
1. BSPP

NOTE: Bold items are standard.

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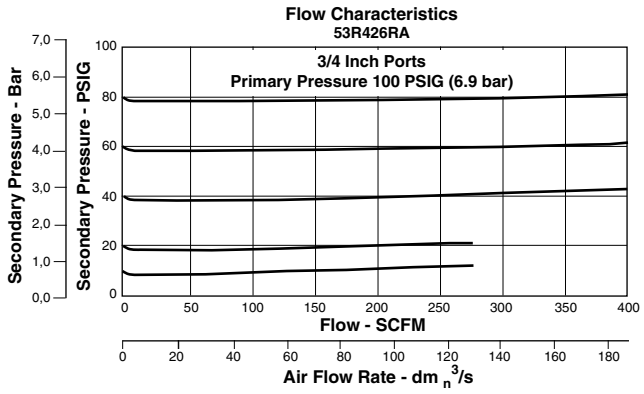
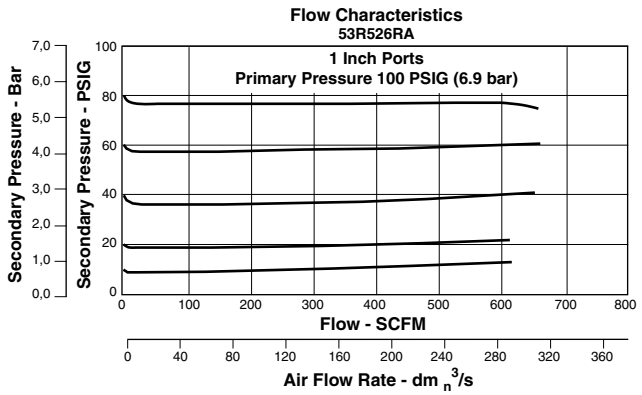
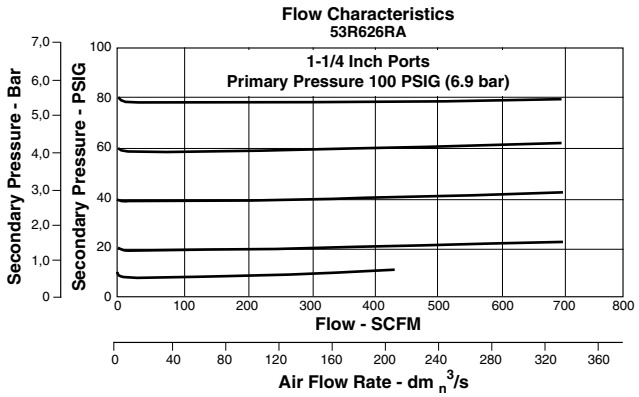
Technical Information







53R Regulator Kits & Accessories

Adjustment Dial Knob RRP-16-024-80
O-ring, Repair Kit GRP-95-261-80
Piston, Bottom and O-ring Seal RRP-95-192-80
Pistons and Bonnet Repair Kit RRP-95-766-80
Spring, Regulation, Belleville Washer
2 to 40 PSIG Range RRP-95-906-80
5 to 160 PSIG Range RRP-95-905-80
Tamper Resistant Kit RRP-95-585-80
Valve, Main with O-ring Seal RRP-95-152-80
Valve, Pilot with O-ring and Valve Spring RRP-96-935-80

Specifications

Adjusting Range Pressure ..... 2 to 40 PSIG (14 to 276 kPa)
5 to 160 PSIG (34 to 1103 kPa)
Bleed Rate ..... 0.05 SCFM
Gauge Ports ..... Two Ports 1/4"
(Can be used as additional High Flow 1/4 Inch Outlet Ports)
Maximum Operating Temperature ..... 150°F (65.5°C)
Maximum Supply Pressure ..... 300 PSIG (2068 kPa)
Port Threads ..... 3/4", 1", 1-1/4"
Weight ..... 4.0 lb. (1.8 kg)

Materials of Construction

Body ..... Zinc
Bonnet ..... Zinc / Brass
Piston ..... Acetal
Seals ..... Nitrile
Springs ..... Steel
Valve Assembly ..... Brass / Nitrile / Acetal

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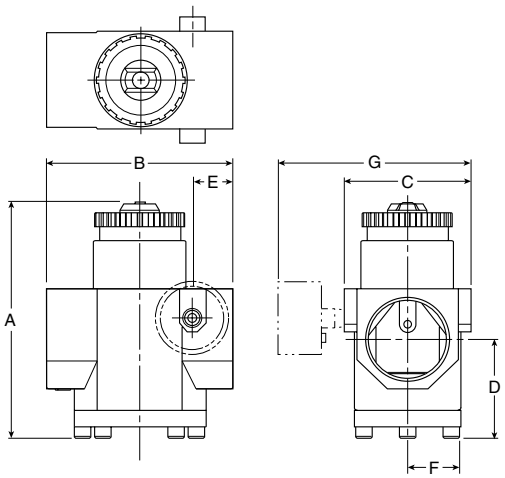
54R Regulator – Relieving

Features

- Balanced poppet design.
- Non-rising, pressure-adjusting dial.
- High-relief flow (3/16" relief orifice).
- Two 1/4" gauge ports.
- Piston operated.
- Flow capacity: 1-1/2" – 1,600 SCFM*
  2" – 1,600 SCFM*



Port Size	High Flow 5 to 160 PSIG (0.34 to 11 bar)	Low Pressure 2 to 40 PSIG (0.14 to 2.8 bar)
1-1/2"	**54R726RA**	**54R725RA**
2"	**54R826RA**	**54R825RA**

Standard part numbers shown; for other models refer to ordering information below.

* Inlet pressure 100 PSIG (6.9 bar). Secondary pressure 80 PSIG (5.5 bar).
SCFM = Standard cubic feet per minute at 100 PSIG inlet,
90 PSIG no-flow secondary setting and 25 PSIG pressure drop.

54R Regulator Dimensions		
A 6.80 (173)	**B** 5.30 (135)	**C** 3.60 (90)
D 2.80 (71)	**E** 1.15 (29.2)	**F** 1.80 (45.7)
G 5.30 (134.6)		

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

54R	7	26	R	A	—

Port Size
7. 1-1/2 Inch
8. 2 Inch

Springs
25. 2 to 40 PSIG
26. 5 to 160 PSIG

Relief
R. Relieving

Engineering Level
A. Current

Thread Type
Blank. NPT
1. BSPP

NOTE: Bold items are standard.

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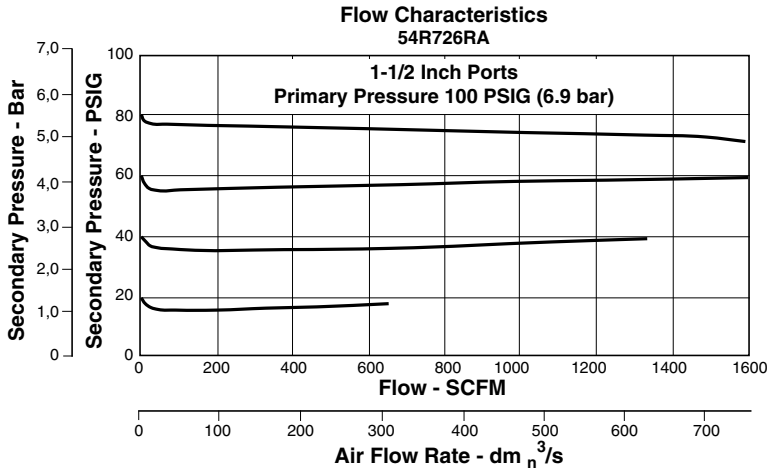
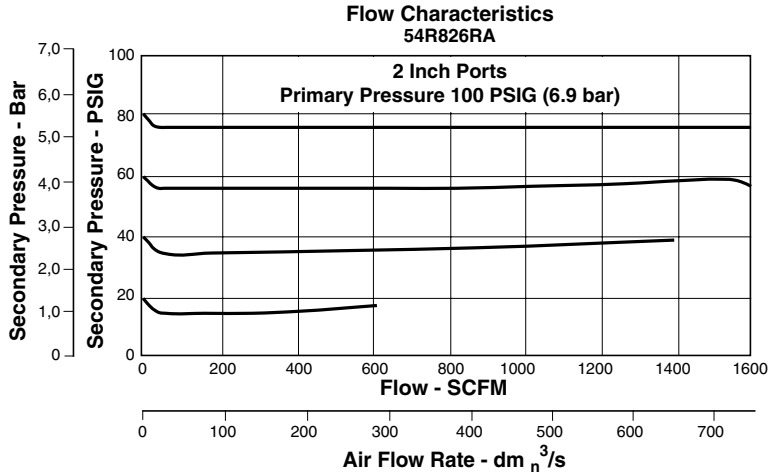




54R Regulator Kits & Accessories

Adjustment Dial Knob RRP-16-024-80
O-ring, Repair Kit GRP-95-262-80
Piston, Bottom and O-ring Seal RRP-95-192-80
Pistons and Bonnet Repair Kit RRP-95-766-80
Spring, Regulation, Belleville Washer
2 to 40 PSIG Range RRP-95-906-80
5 to 160 PSIG Range RRP-95-905-80
Spring, Main Valve RRP-95-024-80
Tamper Resistant Kit RRP-95-585-80
Valve, Main with O-ring Seal RRP-95-153-80
Valve, Pilot with O-ring and Valve Spring RRP-96-935-80

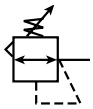
Specifications

Adjusting Range Pressure ..... 2 to 40 PSIG (14 to 276 kPa)
5 to 160 PSIG (34 to 1103 kPa)
Bleed Rate ..... 0.05 SCFM
Gauge Ports ..... Two Ports 1/4"
(Can be used as additional High Flow 1/4 Inch Outlet Ports)
Maximum Operating Temperature ..... 150°F (65.5°C)
Maximum Supply Pressure ..... 300 PSIG (2068 kPa)
Port Threads ..... 1-1/2", 2"
Weight ..... 9 lb. (4.1 kg)

Materials of Construction

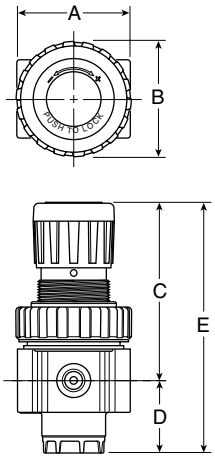
Body ..... Zinc
Bonnet ..... Zinc / Brass
Piston ..... Zinc
Seals ..... Nitrile
Springs ..... Steel
Valve Assembly ..... Brass / Nitrile / Acetal

27R Regulator – Precision



Features

- Fine adjustment sensitivity.
- Good repeatability and minimal pressure drop.
- High flow capacity.
- Two 1/4" gauge ports.
- Brass Poppet for long life.
- High Flow: 25 SCFM §
- Modular with 05 Series FRL.
- Non-rising, removable knob.
- Multiple porting options.



Pressure	1/4" NPT	1/4" BSPP
15 PSIG	**27R112AD**	27R112AD1
30 PSIG	**27R110AD**	27R110AD1
60 PSIG	**27R114AD**	27R114AD1
125 PSIG	**27R113AD**	27R113AD1

Standard part numbers shown, for other models refer to ordering information below.

NOTE: 1.53 Dia. (39mm) hole required for panel mounting. Maximum panel thickness 1/4".

§ SCFM = Standard cubic feet per minute at 150 PSIG inlet, 90 PSIG no flow secondary setting and 5 PSIG pressure drop.

27R Regulator Dimensions		
A 2.00 (51)	**B** 2.06 (52)	**C** 3.16 (80)
D 1.28 (32)	**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

27R	1	10	A	D	—	—	---

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

Pressure Range
- **10. 30 PSIG**
- **12. 15 PSIG**
- **13. 125 PSIG**
- **14. 60 PSIG**

Relief
- **A. Relieving**

Engineering Level
- **D. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options
- **Blank. No Options**
- L.† Preset Non-Adjustable
- P.† Preset Adjustable
- S.† Pressure Limiter Max. Adjustable
- T.† Pressure Limiter Max. Non- Adjustable
- V. Fluorocarbon

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

Preset / Pressure Limited
- **Blank. None**
- XXX* Preset Pressure
- XXX* Pressure Limited

* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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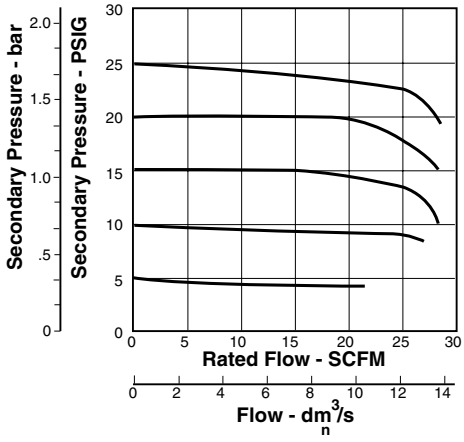
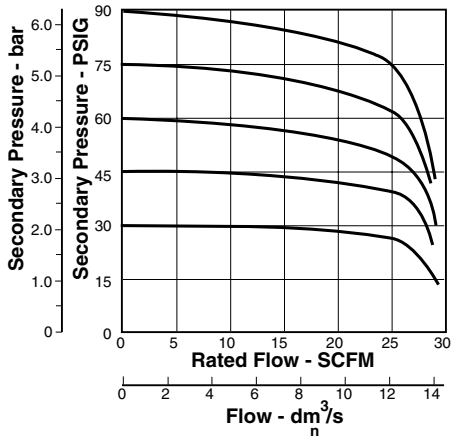
Technical Information

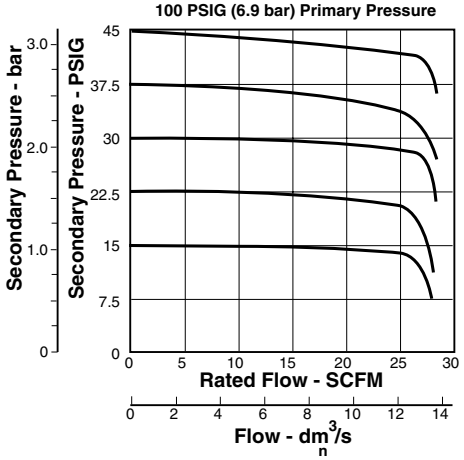
Flow Characteristics
27R110AD
1/4 Inch Ports
100 PSIG (6.9 bar) Primary Pressure



Flow Characteristics
27R113AD
1/4 Inch Ports
100 PSIG (6.9 bar) Primary Pressure



Flow Characteristics
27R114AD
1/4 Inch Ports
100 PSIG (6.9 bar) Primary Pressure



27R Regulator Kits & Accessories

Bonnet Assembly Kit PS910P
Control Knob P0442001
Gauges – 1-1/2" Dial Face
30 PSIG (0 to 200 kPa) RRP-96-663
60 PSIG (0 to 400 kPa) RRP-96-664
160 PSIG (0 to 1100 kPa) RRP-96-665
300 PSIG (0 to 2000 kPa) RRP-96-666
2" Dial Face
60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit PS963P
Panel Mount Nut – Metal PS964P
Service Kit PS907P
Springs – 1-30 PSIG Range P04427
1-15 PSIG Range P04428
0-60 PSIG Range P04426
2-125 PSIG Range P04425

Specifications

Bleed Rate ..... 2.0 SCFH
Gauge Ports (2) ..... 1/4 Inch
Effect of Supply Pressure Variation –
0.5 PSIG (3.5 kPa) for 25 PSIG (173 kPa) change in P_1
Relief Capacity –
0.5 SCFM (0.24 dm²/s) @ 5 PSIG (35 kPa) increase in P_2
Flow Capacity –
28 SCFM (13.2 dm²/s) @ 100 PSIG (690 kPa) P_1
and 20 PSIG (138 kPa) P_2
Port Threads ..... 1/4, 3/8 Inch
Maximum Inlet Pressure ..... 250 PSIG (1725 kPa)
Relief Flow ..... 5.0 SCFM
Repeatability ..... ±.14 PSIG (±0.97 kPa)
Response – ..... 510 ms
The valve will open to full flow and fill a volume of 100 in³
Temperature Rating ..... 32°F to 175°F (0°C to 80°C)
Weight ..... 1.0 lb. (.45 kg)

Materials of Construction

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

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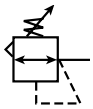
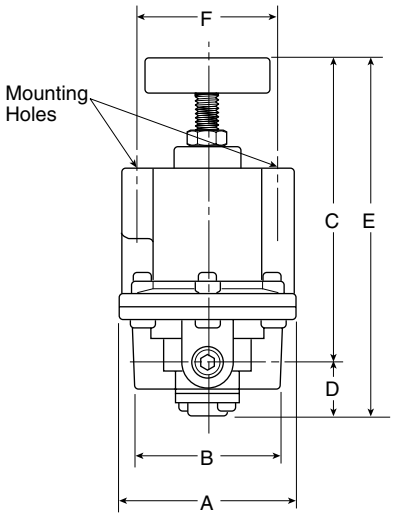
3550 Regulator – Compact Precision



Features

- Adjusting knob.
- Diaphragm design for good repeatability, response and sensitivity.
- Balanced poppet.
- Two full flow gauge ports.
- Precise regulation; will sense a decrease in downstream pressure as small as 1/8" of water.
- High flow capacity; flows of 40 SCFM attainable with minimal drop.
- Sensitive relief. Downstream pressure buildup, down to 0.01 PSIG above the set pressure, is automatically vented through an integral relief valve.
- Superior flow response, quick reaction to high flow demands. Desired downstream pressure levels maintained through the use of a venturi type aspirator tube.



3550 Regulator Dimensions		
A 3.00 (761)	**B** 2.55 (65)	**C** 5.56 (141)
D .94 (29)	**E** 6.50 (165)	**F** 2.25 (57)

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

Port Size	1/2 to 30 PSIG Relieving	1/2 to 30 PSIG Non-Relieving	1 to 60 PSIG Relieving	1 to 60 PSIG Non-Relieving	2 to 150 PSIG Relieving	2 to 150 PSIG Non-Relieving
1/4 Inch	**03550 1020**	**03550 3020**	**03550 1030**	**03550 3030**	**03550 1040**	**03550 3040**

NOTE: BOLD OPTIONS ARE STANDARD.

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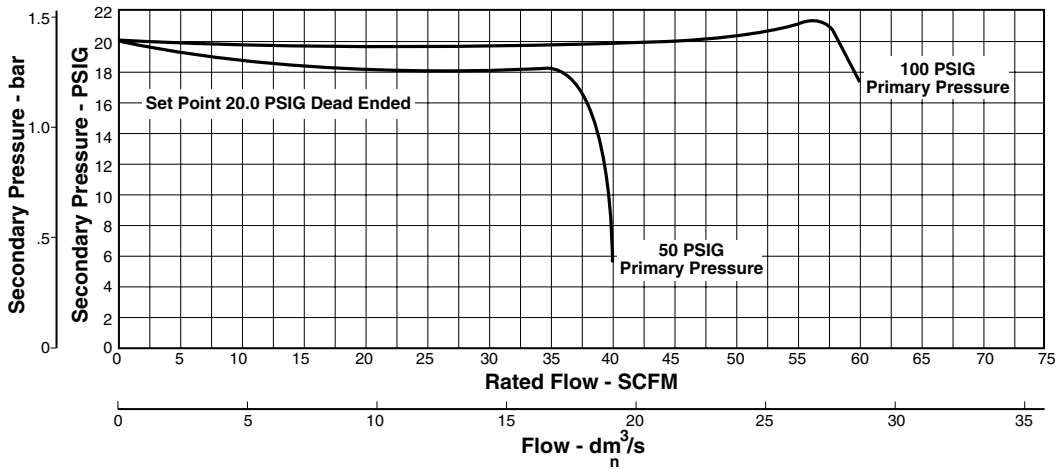
Technical Information



3550 Regulator Kits & Accessories

Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit 035500400
Service Kit – Non-Relieving 035508009
Relieving 035508000

Specifications

Bleed Rate ..... 0.02 SCFM
Gauge Ports (2) ..... 1/4 Inch
(Can be used as additional Full Flow 1/4 Inch Outlet Ports)
Effect of Supply Pressure Variation –
Less than 0.1 PSIG for 100 PSIG change
Exhaust Capacity –
5.5 SCFM with downstream pressure 5 PSIG above set pressure. Exhaust commences at 0.01 PSIG above set pressure.
Flow Capacity –
27 SCFM (12.7 dm^2/s) @ 100 PSIG (690 kPa) P_1 and 20 PSIG (138 kPa) P_2
Operating Temperature Range – ... -40°F to 200°F (-4°C to 93°C)

Operating Pressure Range –		**PSIG**	**kPa**
Primary –	Maximum	500	3450
Secondary –			
30 PSIG Spring	Minimum	0.5	3.4
	Maximum	30	207
60 PSIG Spring	Minimum	1	6.9
	Maximum	60	414
150 PSIG Spring	Minimum	2	14
	Maximum	150	1035

Port Threads ..... 1/4 Inch
Pressure Rating ..... 0 to 250 PSIG (0 to 1725 kPa)
Relief Flow ..... 1.0 SCFM
Repeatability ..... ±.02 PSIG (±0.014 bar)
Response 250 ms
The valve will open to full flow and fill a volume of 1250 cm^3
Sensitivity ..... 0.125" Water Column
Weight ..... 1.6 lb. (.73 kg)

Materials of Construction

Adjusting Stem & Spring ..... Steel
Biased Spring ..... Stainless Steel
Body, Bonnet ..... Aluminum
Control Knob ..... Plastic
Diaphragm ..... Nitrile and Dacron, Convoluted
Seals ..... Nitrile
Valve Poppet ..... Brass
Valve Poppet Seat ..... Fluorocarbon

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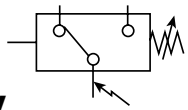
MPS-31



Red ⟷ Green Display

Model Number	Output	Pressure Range
MPS-P31N-NG	NPN	0 to 145 PSI
MPS-P31N-PG	PNP	0 to 145 PSI
MPS-V31N-NG	NPN	0 to -30 inHg
MPS-V31N-PG	PNP	0 to -30 inHg
MPS-P31N-NC	NPN	0 to 145 PSI
MPS-P31N-PC	PNP	0 to 145 PSI
MPS-V31N-NC	NPN	0 to -30 inHg
MPS-V31N-PC	PNP	0 to -30 inHg

Features

- **Pressure Ranges:**
  Positive Pressure ..... 0 to 145 PSI
  Vacuum Pressure ..... 0 to -30 inHg
  Compound ..... -14.7 to 72.5 PSI
- **Sensor Output:**
  1 NPN or PNP Open Collector
  Transistor Output , 30VDC, 125mA
- **Switch Point and High-low Programming**
- **4 Selectable Units of Measure**
  (mmHg, -bar, -kPa, inHg)
  (kgf/cm², PSI, bar, kPa)
- **Output Response Time Less Than 2.0 Milliseconds**
- **IP65 Rated and CE Marked**
- **Air and Non-Corrosive Gases**
- **Error Message**

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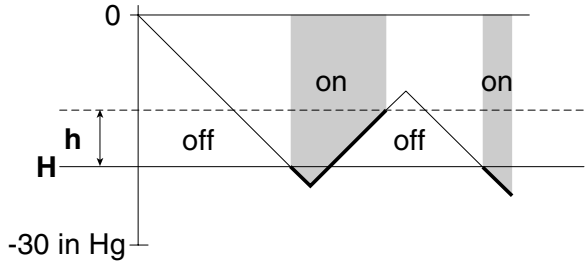
For additional sensor options, see Catalog 0801/USA.

Output Modes

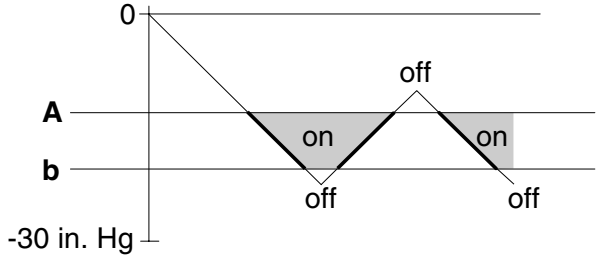
The MPS-31 Series Sensor has one independent NPN or PNP open collector output signal. The Switch Output Mode has a switch point programmed by the user at a specific pressure. The Hysteresis Range **(h)** adjustment controls the output signal 0 to 100% below the Switch Point **(H)**.

The Window Comparator Mode provides two Switchpoint Settings **(A)** and **(b)** that control the output signals (NPN / PNP) between two pressures. This is referred to as the “High / Low” setting.

Switch Output



Window Comparator Output



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Model Number Index

Bold Items Are Standard

MPS - V 31 N - P C

Pressure Range	Port Size	Circuit	Electrical Connector
V 0 to -30 inHg	**N 1/8" NPSF**	**N NPN Sinking Output**	**C 4-Pin, M8**
P 0 to 145 PSI	R 1/8" BSPT	**P PNP Sourcing Output**	**G Grommet (2m)**
R -14.7 PSI to 72 PSI	G 1/8" BSPP		

MPS-V31N-PG

MPS-V31N-PC

Mounting Bracket MPS-ACCK1 Included with Sensors.

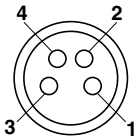
Specifications

Pressure Range	Vacuum (V)	Positive (P)	Compound (R)
Units of Measure Display Resolution	bar: 0.001 kPa: 0.1 mmHg: 1 inHg: 0.1	bar: 0.01 MPa: 0.001 kgf/cm²: 0.01 PSI: 1	bar: 0.01 kPa: 1 kgf/cm²: 0.01 PSI: 0.1
Media	Air and Non-Corrosive Gases		
Pressure Port	**N**: 1/8" NPSF, **R**: 1/8" BSPT, **G**: 1/8" BSPP		
Proof Pressure	**V**: 145 PSI, **P**: 217.5 PSI, **R**: 145 PSI		
Operating Temperature	32 to 122°F (0 to 50°C)		
Storage Temperature	14 to 140°F (-10 to 60°C)		
Humidity	35 to 85% RH		
Electrical Connection	**C**: 4-Pin, M8 Connector, **G**: Grommet Open Lead		
Power Supply	10.8 to 26.4VDC, Ripple Vp-p 10% Max., Reverse Voltage Protection		
Display	3-Digit, 7-Segment LED		
Display Refresh	.1 to 3.0 sec. (Factory set at 0.1)		
Output Circuit	NPN (Sinking), PNP (Sourcing) Open Collector Transistor, 30VDC, 125mA		
Switch Output	Output Signal, NPN or PNP, Normally Open or Closed, LED Indicator		
Output Modes	Hysteresis or Window Comparator		
Output Response Time	< 2ms, 32, 256, 512ms Programmable (Factory set 2ms)		
Repeatability	± 0.2% F.S.		
Thermal Error	1% over ±25°C (77°C) Temperature Change (Range 32 to 122°F (0 to 50°C)		
General Protection	IP40, CE Rating, EMC-EN55011 Class B, EN 50082-2		
Current Consumption	< 70mA		
Vibration Resistance	10 to 55Hz, 1.5mm, XYZ, 2 hrs.		
Shock Resistance	10 G, XYZ		
Material	**Housing:** Polycarbonate, **Pressure Port:** Zinc Die-cast		
Mass	1.7 oz. (45g)		

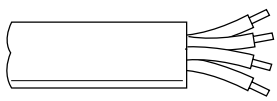
Sensor Pin Out

Pin #

1 Brown: 24VDC
2 Black: NPN/PNP Open Collector Output
3 Blue: 0VDC
4 Not Used



Lead Wiring



Brown	V+
White	NPN / PNP Output
Blue	0V
Black	Not Used

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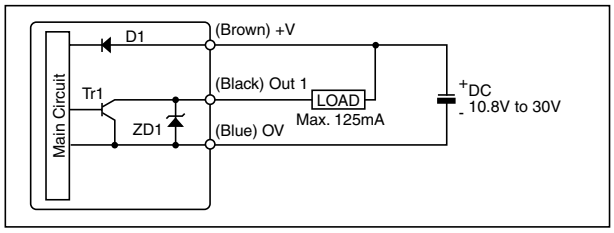
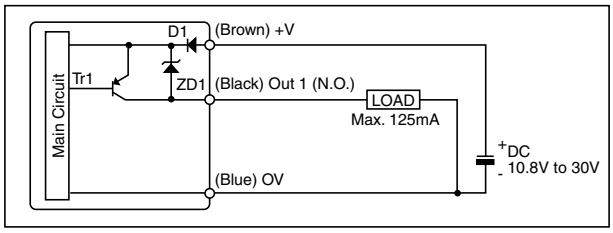
Internal Circuit



NPN



PNP

⚠ Cautions

The MPS-31 Pressure Sensor is designed to monitor pressure and is not a safety measure to prevent accidents.

The compatibility of the sensor is the responsibility of the designer of the system and specifications.

Operating Environment

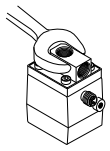
- Parker / Convum Sensors have not been investigated for explosion-proof construction in hazardous environments.
- Do not use with flammable gases, liquids, or in hazardous environments.
- Avoid installing the sensor in locations where excessive voltage surges could damage or affect the performance of the sensor.

Operations

- Dedicate a power supply of 10.8 to 30VDC to the sensor and set the ripple to Vp-p10% or less. Avoid excessive voltage. Avoid voltage surges.
- A small amount of internal voltage drop is possible. Ensure the power supply minus any internal voltage drop exceeds the operating load.
- Verify the operating media is compatible with the specified sensor. Check the chemical make-up, operating temperatures, and maximum pressure ranges of the system before installing.
- Installation of air dryer system is recommended to remove moisture.

Installation

- Never insert an object into the pressure port other than an appropriate fluid connector.
- Avoid short-circuiting the sensor. Connect the brown lead to V+ and blue lead to 0V.
- Do not connect the output lead wires (black / white) to the power supply.
- Outputs not being used should be trimmed and insulated.
- Install as shown using the metal mounting bracket.



Error Messages

Display	Description	Solutions
Err	Zero Reset Error	Reset Zero Below 3% of F.S.
Er1	System Error (Internal)	Contact Factory
CE1	Over current of Output 1	Load current exceeds
FFF –FF	Applied pressure exceeds pressure range	Apply pressures with the rating of the sensor

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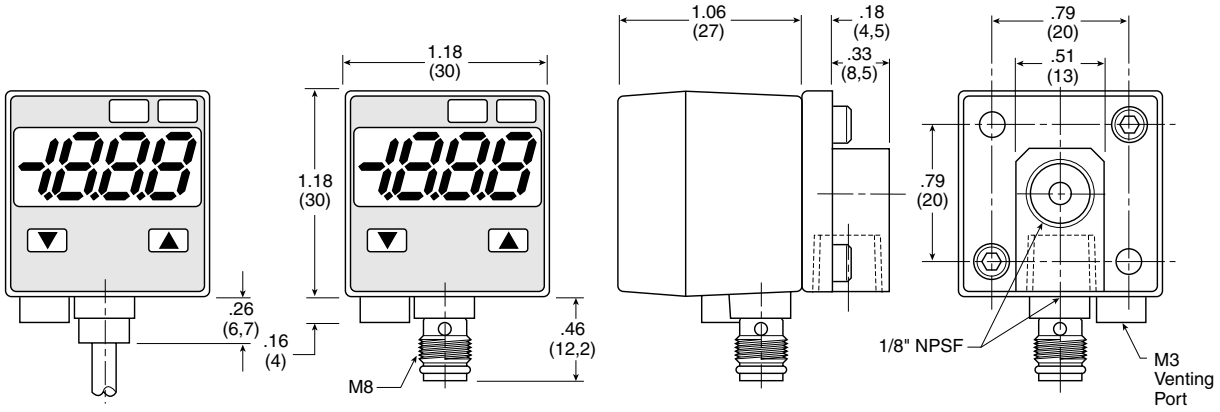
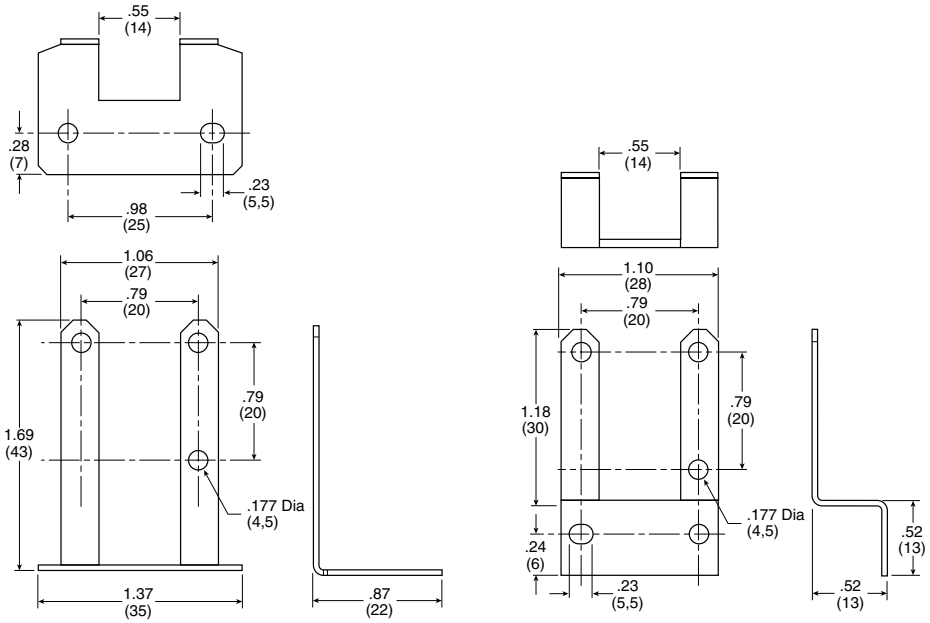
Dimensions

N, R, G
1/8" Female



Grommet Lead **4-Pin Connector**

MPS-ACCK1
Mounting
Brackets
(Included)



See page 86 for Symbol Explanation.

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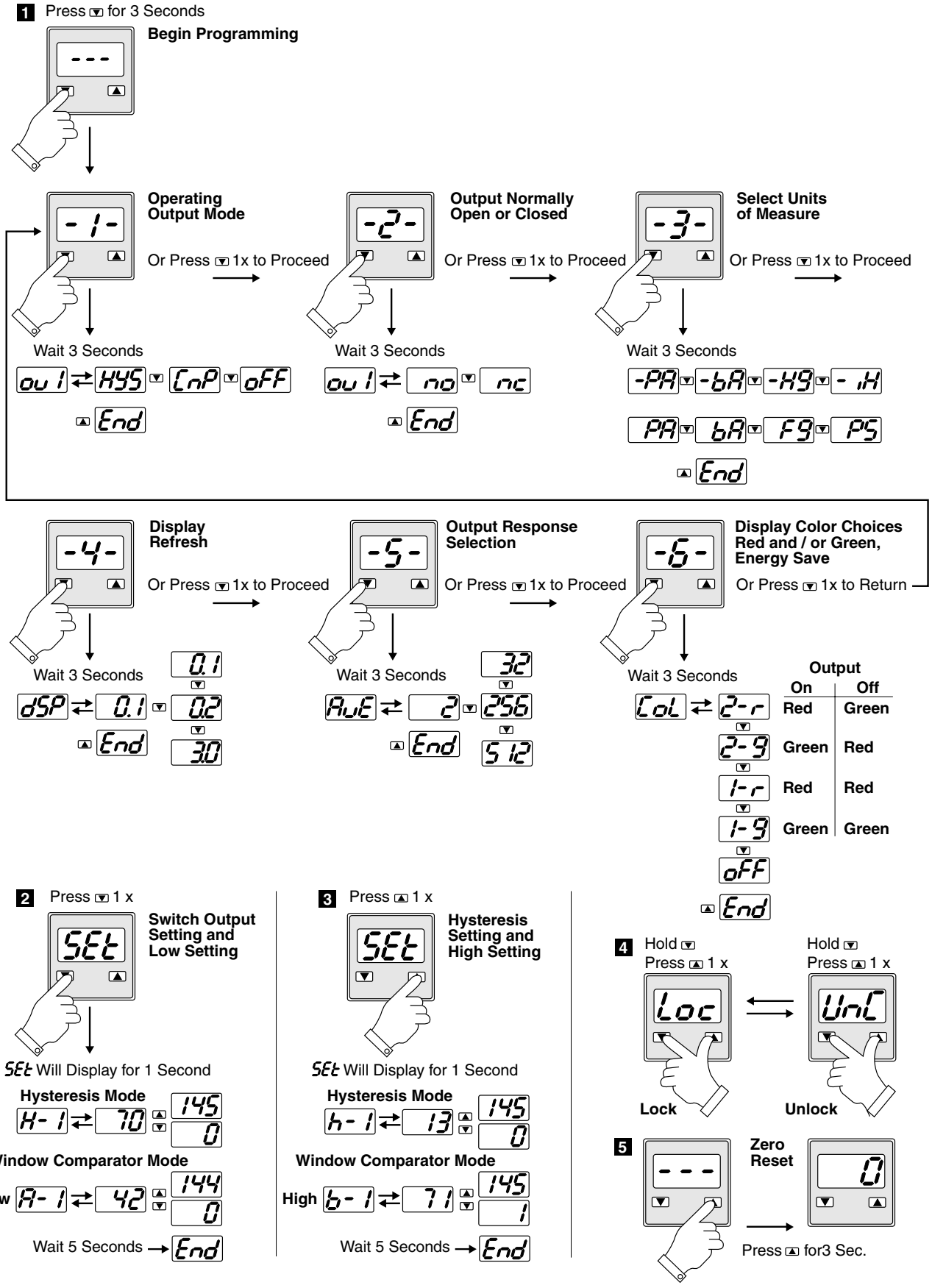

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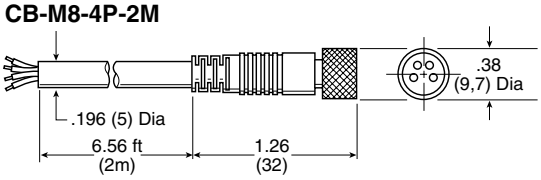
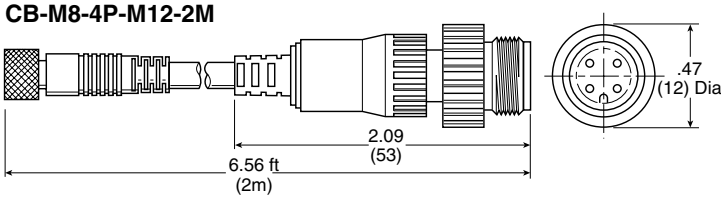
Accessories

Cables

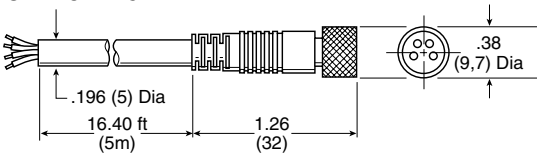
CB-M8-4P-2M



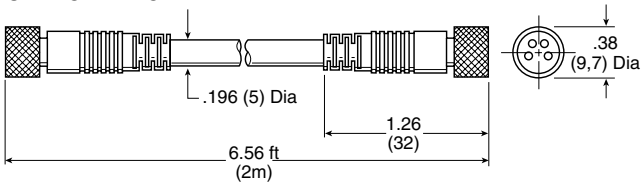
CB-M8-4P-M12-2M



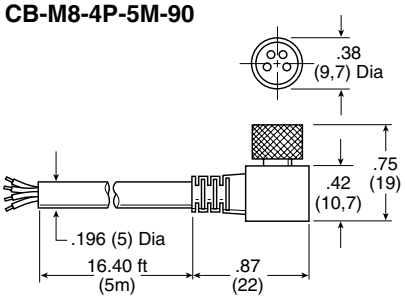
CB-M8-4P-5M



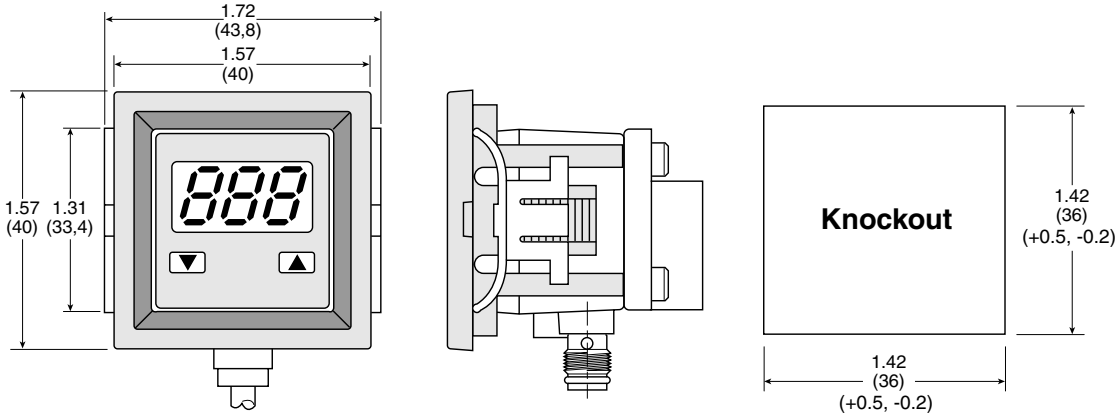
CB-M8-4P-M8-2M



CB-M8-4P-5M-90



MPS-ACCH7 Panel Mounting Bracket



A Index

ou 1		Output 1
ou2		Output 2
ou3		Output 3
ou4		Output 4
nc		Output Normally Closed (Passing)
no		Output Normally Open (Non-Passing)
-PA	PA	Pressure Units (Pascal). Negative Units for Vacuum Sensors
-bA	bA	Pressure Units (Bar). Negative Units for Vacuum Sensors
-H9	H9	Pressure Units (mm.Hg). Negative Units for Vacuum Sensors
- iH		Pressure Units (in.Hg). Negative Units for Vacuum Sensors
-F9	F9	Pressure Units (kgf/cm^2). Negative Units for Vacuum Sensors
PS		Pressure Units (PSI)
ESY		Easy Mode. Sensor will only allow changes to set points
oFF		Off, or Energy Saving Display; reduces current consumption of Sensor
on		On
HYS		Hysteresis Mode. Select Hysteresis Set Point and Hysteresis Range
CnP		Windows Comparative Mode Select High and Low Set Point
H- 1		Hysteresis Mode Set Point. Output 1
H-2		Hysteresis Mode Set Point. Output 2
h- 1		Hysteresis Mode. Hysteresis Range Output 1
h-2		Hysteresis Mode. Hysteresis Range Output 2
A- 1		Windows Comparative Mode Low Set Point Output 1
b- 1		Windows Comparative Mode High Set Point Output 1
A-2		Windows Comparative Mode Low Set Point Output 2
b-2		Windows Comparative Mode High Set Point Output 2
AUt		Automatic Teach Mode. Automatically sets Outputs 1 and 2 while cycling system. Output 1 set to Hysteresis Mode, Output 2 set to Window Comparative Mode
AL		Auto Surveillance Mode On/Off. Set after Automatic Teach
ALn		Auto Surveillance based on cycles times. Provides output if Peak Value is not obtained in a specified number of cycles. (1-100)
dSP		Display Refresh Setting. Display updates from .1 to 1 sec. .3 sec factory set. Does not affect Sensor Response Time
AUE		Output Response Time. Multiples the sensor response time. Increases sensor response time. (Anti-chatter Mode)
Pb		Pressure Value Display Mode. Displays Pressure for a specific time period and then updates for next time period
Pbt		Time Range for Pressure Value Display Mode
Pbd		Value Setting for Pressure Value Display Mode
PE		Display Peak Value over selected time range
bo		Display Bottom Value over selected time range
du		Display Difference over selected time range
dSF		Display Function Mode. On/Off
Fnc		Display Function. Selects display types.
1b		Display blinks pressure when Output 1 is Passing Normal when Output 1 is Non-Passing
2b		Display blinks pressure when Output 2 is Passing Normal when Output 2 is Non-Passing
1d		Display shows pressure when Output 1 is Passing Display shows special screen when Non-Passing
2d		Display shows pressure when Output 2 is Passing Display shows special screen when Non-Passing
SEt		Select Switch Output setting for MPS-31
CoL		Color Setting for MPS-31
Pot		MPS-4, Port Reference Selection
A		MPS-4, Display change of B port to A port static
b		MPS-4, Display change of A port to B port static
Ab		MPS-4, Display change of A port to change of B port
P1		MPS-7, Pressure Range Selection Vacuum
P2		MPS-7, Pressure Range Selection Low Pressure
P3		MPS-7, Pressure Range Selection Positive Pressure
P4		MPS-7, Pressure Range Selection Compound Pressure
SAUE		MPS-7, Energy Savings Mode, reduces current consumption
P- 1		MPS-7, Peak Surveillance
oPt		Digital Input Sensors Only. Digital Input Mode for remote Zero reset of sensors
d in		Digital Input
dch		Digital Channel
Scn		MPS-7 Scan Mode. Sensor scans and displays each channel for 3 sec.
Loc		Locked. Sensor programs cannot be changed
UnL		Unlocked. Sensor programs can be changed
Zero Reset		Sets Sensors reference point to current atmospheric conditions

Notes

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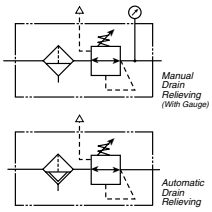
Filter / Regulator



- Pipe Sizes 1/8 thru 1-1/2 Inch
- Flows to 200 SCFM
- Pressures to 250 PSIG

Integral Filter / Regulator "Piggybacks" 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 P3A-EA Series, 1/8 and 1/4 Inch
- Economy 05E Series, 1/4 and 3/8 Inch
- Compact 06E Series, 1/4, 3/8 and 1/2 Inch
- Standard 07E Series, 3/8, 1/2 and 3/4 Inch
- Hi-Flow P3NE Series, 3/4, 1 and 1-1/2 Inch
- Economy / Precision 27E Series, 1/4 and 3/8 Inch
- Standard / Coalescing 12E Series, 3/8, 1/2 and 3/4 Inch

Filter / Regulator Selection

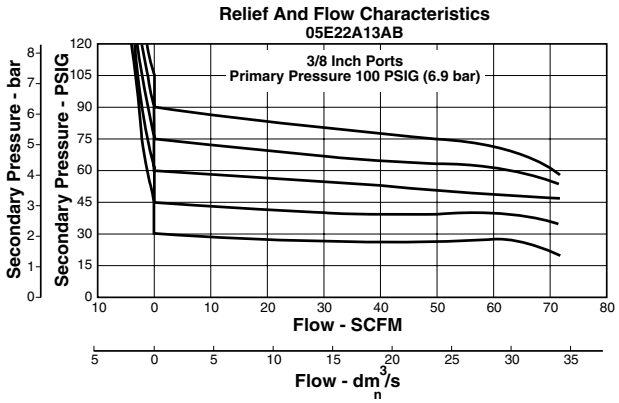
1. Determine maximum system flow requirements.
2. Determine maximum allowable pressure drop at rated flow in SCFM.
3. Refer to flow chart and select filter/regulator by choosing the curve that offers minimum pressure drop at desired flow in SCFM.

CAUTION:

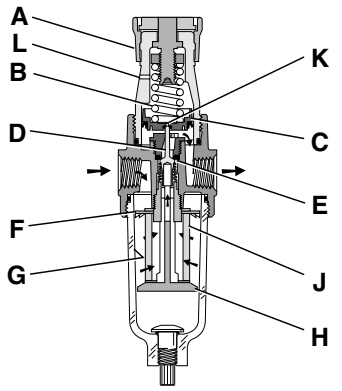
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

Reading Flow Charts to Size Filter / Regulators

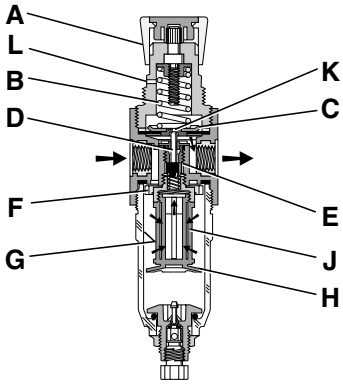
A Index



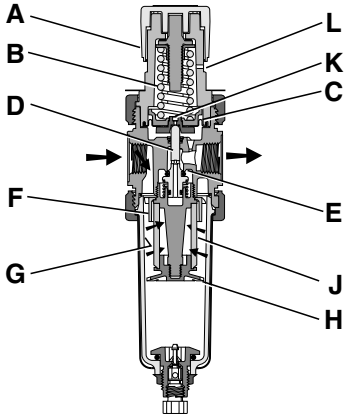
Once the required flow is determined for a pneumatic application the regulator or filter/regulator can be selected by using the flow chart. The chart serves two different purposes. To read the flow, use the right side of the chart. To read the relief characteristics use the left side of the chart. When 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.



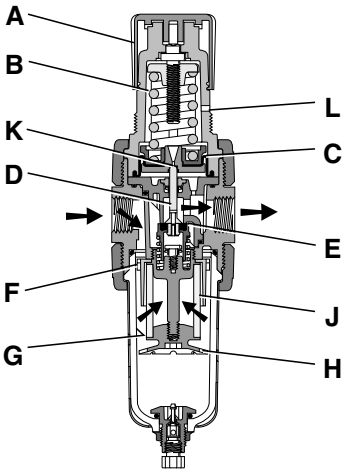
14E



P3AEA

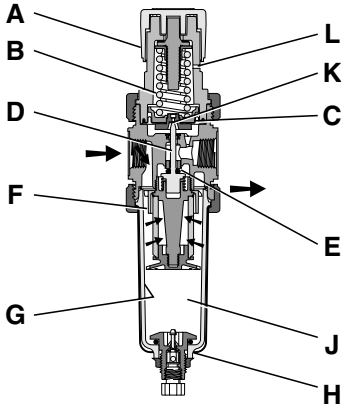


05E

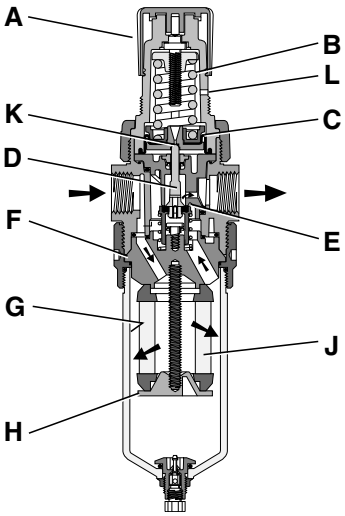


06E / 07E

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.)

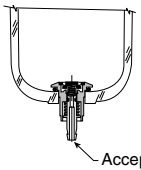


27E



12E

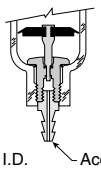
Semi Automatic Drain



(Overnight Drain)

This drain offers a semi-automatic function when system pressure is shut off. The drain can also be used manually by gripping it with your fingertips and pushing upward.

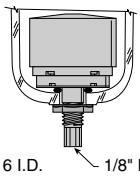
Automatic Pulse Drain



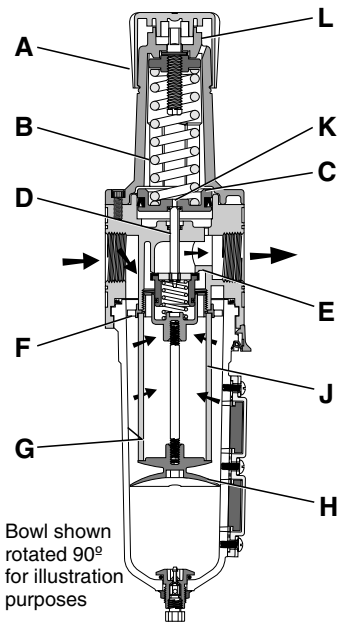
(Spitter Drain)

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



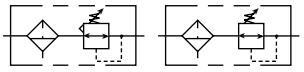
The float internal to this drain rises with increased liquid level. When the float rises, it opens a seat area allowing the trapped liquids to drain through the bottom. A manual override can be pushed in the bottom of the drain to unseat the float if particulates create a block.



Bowl shown rotated 90º for illustration purposes

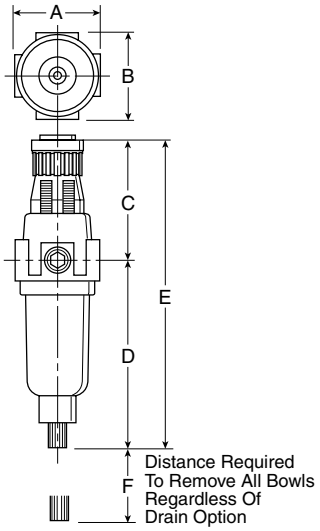
P3NE

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§



A Index

Port Size	NPT		BSPP	
	Twist Drain	Automatic Pulse Drain	Twist Drain	Automatic Pulse Drain
Poly Bowl‡				
1/8"	**14E01B13FC**	**14E05B13FC**	14E01B13FC1	14E05B13FC1
1/4"	**14E11B13FC**	**14E15B13FC**	14E11B13FC1	14E15B13FC1
Metal Bowl				
1/8"	**14E03B13FC**	**14E07B13FC**	14E03B13FC1	14E07B13FC1
1/4"	**14E13B13FC**	**14E17B13FC**	14E13B13FC1	14E17B13FC1

14E Piggyback Dimensions

A	B	C
1.62 (41)	1.58 (40)	2.42 (61)
D	**D†**	**E**
3.79 (96)	3.84 (98)	6.21 (158)
E†	**F**	
8.63 (219)	1.60 (41)	

Inches (mm)
† With Auto Drain

Standard part numbers shown, for other models refer to ordering information below.
‡ For polycarbonate bowl see caution in Product Selection Chart 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.

Ordering Information

14E	1	1	B	13	F	C	—	—	---

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

Elements
A. 40 Micron
B. 5 Micron
Z. Adsorber

Relief
F. Relieving
G. Non-Relieving

Port Type
Blank. NPT
1. BSPP
2. BSPT

Preset / Pressure Limited
Blank. None
XXX* Preset Pressure
XXX* Pressure Limited

* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory.
(Example:
065 = 65 PSIG)

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

Pressure Range

Without Gauge	With Gauge
10. 30 PSIG	**15. 30 PSIG**
11. 60 PSIG	**16. 60 PSIG**
12. 15 PSIG	**17. 15 PSIG**
13. 125 PSIG	**18. 125 PSIG**

Engineering Level
C. Current

Options
Blank. No Options
L.† Preset Non-Adjustable
P.† Preset Adjustable
S.† Pressure Limiter Max. Adjustable
T.† Pressure Limiter Max.

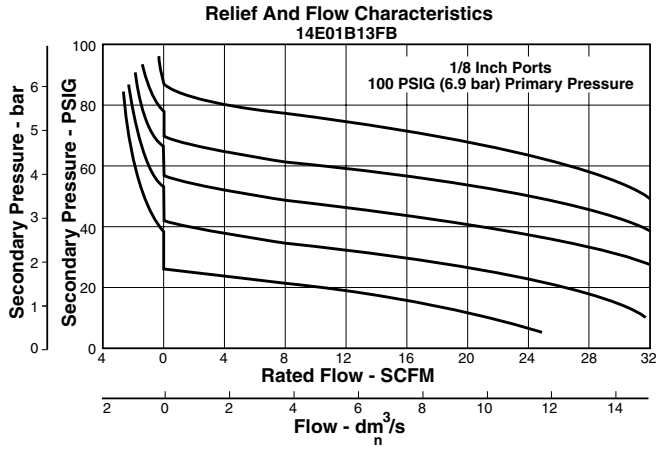
† Inlet Pressure is 100PSIG. For other pressures, contact factory.

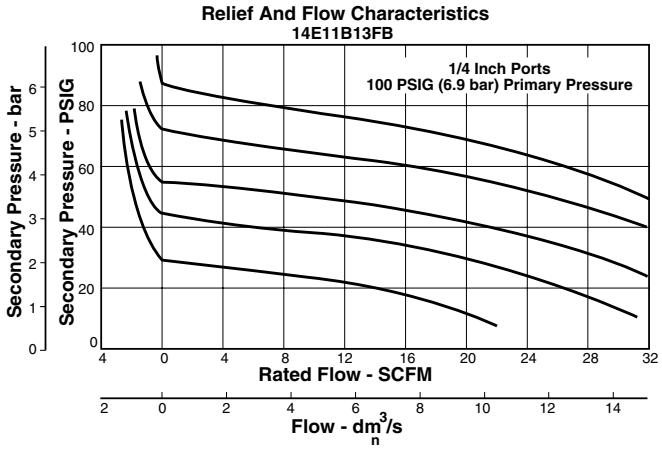
NOTE: BOLD OPTIONS ARE STANDARD.

A

A Index

Technical Information





14E Filter / Regulator Kits & Accessories

Bonnet Tamperproof Clip P01265

Bowl Kits –

Poly Bowl – Automatic Drain PS408P
Twist Drain PS404P

Metal Bowl – Automatic Drain PS451P
Twist Drain PS447BP

Filter Element Kits – 40 Micron PS401P
5 Micron PS403P
Adsorber PS452P

Gauges – 30 PSIG (0 to 200 kPa) P530156
60 PSIG (0 to 400 kPa) P530154
160 PSIG (0 to 1100 kPa) P77413

Mounting Bracket Kit (Includes Panel Mount Nut) PS417BP

Panel Mount Nut P78652

Poppet Kits – Unbalanced PS424BP
Balanced PS425BP

Service Kits – Non-Relieving PS422P
Relieving PS423P

Springs – 1- 15 PSIG Range P01176
1- 30 PSIG Range P01175
1- 60 PSIG Range P01174
2- 125 PSIG Range P01173

Specifications

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 1035 kPa), 32°F to 125°F (0°C to 52°C)

Metal Bowl
0 to 250 PSIG (0 to 1725 kPa), 32°F to 175°F (0°C to 80°C)

Secondary Pressure Ranges –

Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Medium Pressure ..... 1 to 30 PSIG (6.9 to 207 kPa)
Medium Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
Low Pressure ..... 1 to 15 PSIG (6.9 to 104 kPa)

Weight ..... .4 lb. (.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
40 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal

Seals ..... Nitrile

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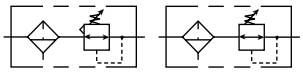
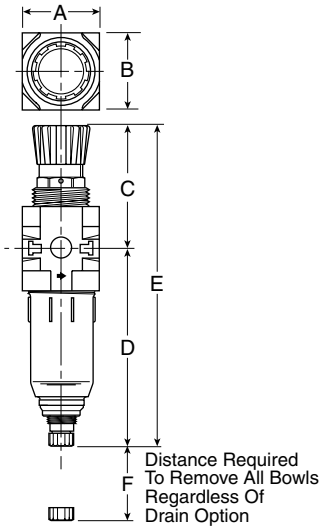
P3A-EA Filter / Regulator – Miniature



Features

- Lightweight plastic body
- Excellent water removal efficiency.
- Space saving package offers both filter and regulator features in one integral unit.
- Unique deflector plate that creates swirling of the air stream ensuring maximum water and dirt separation.
- 5 micron element standard.
- Fingertip operated drain.
- Non-rising adjustment knob.
- Diaphragm design for good repeatability, response
- Balanced poppet standard.



A Index

Port Size	NPT	
	Twist Drain	Auto Pulse Drain
1/8"	**P3A-EA91BEBNNP**	**P3A-EA91CEBNNP**
1/4"	**P3A-EA92BEBNNP**	**P3A-EA92CEBNNP**

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see caution in Product Selection Chart page 2.

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

NOTE: 1.20 Dia. (31mm) hole required for panel mounting.

Filter Dimensions			
A	**B**	**C**	**D**
1.57 (40)	1.57 (40)	2.52 (64)	3.98 (101)
D†	**E**	**E†**	**F**
3.70 (94)	6.50 (165)	6.22 (158)	2.00 (51)

Inches (mm)

† With 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

P3A-EA	9	1	B	E	B	N	N	P

Port Type
9. NPT Female

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

Bowl / Drain
Polycarbonate
B. Twist Drain
C. Auto Pulse Drain

Element
E. 5 Micron

Relief
B. Relieving
N. Non-Relieving

Pressure
Without Gauge
L. 60 PSIG (0 to 4 bar
N. 120 PSIG (0 to 8 bar)
Y. 30 PSIG (0 to 2 bar)
With Gauge
G. 120 PSIG (0 to 8 bar)
Z. 30 PSIG (0 to 2 bar)

Assembly Option
N. None

Bowl Material
P. Polycarbonate

NOTE: BOLD OPTIONS ARE STANDARD.

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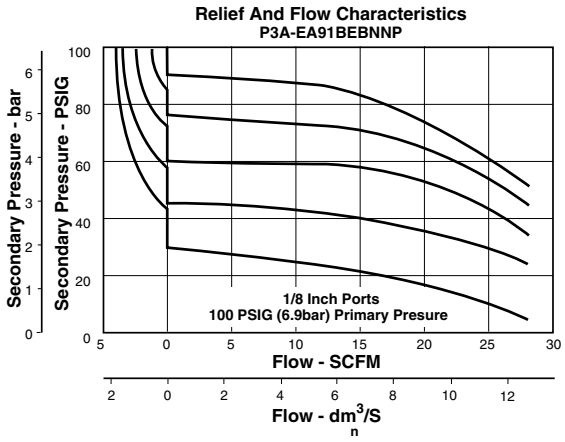
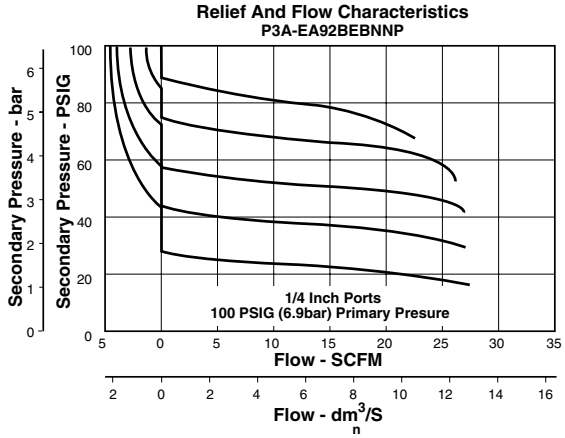
A

A Index

Technical Information





Filter / Regulator Kits and Accessories

Elements – 5 Micron Element P3A-KA00EEN
Gauges – 30 PSIG, 1/8" NPT (0 to 200 kPa) P530156
60 PSIG, 1/8" NPT (0 to 400 kPa) P530154
160 PSIG, 1/8" NPT (0 to 1100 kPa) P77413
Panel Mount Nut 256918
Mounting Bracket Kit P3A-KA00MRN
Plastic Bowls – Bowl with Twist Drain P3A-KA00BBP
Bowl with Auto Pulse Drain P3A-KA00BCP
Service Kits – Filter Section P3A-KA00RFN
Regulator Section –
Relieving Diaphragm & Poppet P3A-KA00RRN
Springs – 1-30 PSIG Spring 156912
1-60 PSIG Spring 156918
5-110 PSIG Spring 156919
Tamperproof Kit B732965

Specifications

Bowl Capacity ..... 0.9 ounces
Sump Capacity ..... 0.24 ounces
Gauge Ports (2) ..... 1/8 Inch

Operating Pressure Range –		**PSIG**	**bar**	**kPa**
Primary –	Maximum	120	8.3	828
Secondary –				
30 PSIG Spring	Minimum	6	0.4	41
	Maximum	30	2.1	207
60 PSIG Spring	Minimum	6	0.4	41
	Maximum	60	4.1	414
110 PSIG Spring	Minimum	6	0.4	41
	Maximum	110	7.6	758

Operating Temperature Range ..... 32°F to 125°F (0°C to 52°C)
Port Threads ..... 1/8, 1/4 Inch
Weight ..... 0.26 lb. (0.12 kg.)

Materials of Construction

Adjusting Nut ..... Brass
Adjusting Stem & Spring ..... Steel
Poppet Return Spring ..... Stainless Steel
Body ..... Plastic
Bonnet ..... Plastic
Bowl ..... Transparent Polycarbonate
Deflector ..... Plastic
Diaphragm ..... Nitrile
Drains – Twist Drain –
Body & Stem ..... Plastic
Seals ..... Nitrile
Auto (Pulse) –
Piston & Seals ..... Nitrile
Stem, Seat, Adaptor & Washers ..... Aluminum
Filter Element & Baffle –
Standard 5 Micron ..... Nylon and Plastic
Port Inserts ..... Brass
Seals ..... Nitrile
Poppet ..... Plastic & Nitrile

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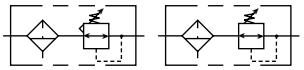
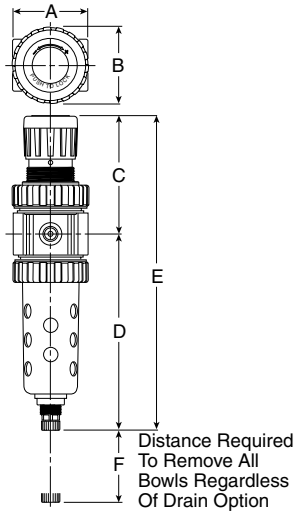
05E Filter / Regulator – Economy



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.
- 40 micron filter element standard, 5 micron and adsorber available.
- High Flow: 1/4" – 30 SCFM§
  3/8" – 40 SCFM§



Port Size	NPT		BSPP	
	Twist Drain	Automatic Pulse Drain	Twist Drain	Automatic Pulse Drain
Poly Bowl‡ / Metal Guard				
1/4"	**05E12A13AB**	**05E1PA13AB**	05E12A13AB1	05E1PA13AB1
3/8"	**05E22A13AB**	**05E2PA13AB**	05E22A13AB1	05E2PA13AB1
Metal Bowl / Sight Gauge				
1/4"	**05E14A13AB**	**05E1TA13AB**	05E14A13AB1	05E1TA13AB1
3/8"	**05E24A13AB**	**05E2TA13AB**	05E24A13AB1	05E2TA13AB1

05E Piggyback 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

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see caution in Product Selection Chart 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.

Ordering Information

05E	1	2	A	13	A	B	—	—	---

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

Bowl Options
Polycarbonate Bowl
1. Twist Drain
2. Metal Bowl Guard / Twist Drain
N. Automatic Pulse Drain
P. Metal Bowl Guard / Automatic Pulse Drain
J. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain
Metal Bowl
3. Twist Drain
4. Sight Gauge / Twist Drain
R. Automatic Pulse Drain
T. Sight Gauge / Auto Pulse Drain
L. Semi-Auto Drain
M. Sight Gauge / Semi-Auto Drain

Elements
A. 40 Micron
B. 5 Micron
Z. Adsorber

Pressure Range

Without Gauge	With Gauge***
10. 30 PSIG	**17. 30 PSIG**
11. 60 PSIG	**16. 60 PSIG**
13. 125 PSIG	**18. 125 PSIG**
14.§ 200 PSIG	**19.§ 200 PSIG**

*** Includes 1-1/2" Dial Face Gauge
§ Requires Metal Bowl

Relief
A. Relieving
L. Non-Relieving

Engineering Level
B. Current

Port Type
Blank. NPT
1. BSPP
2. BSPT

Options
Blank. No Options
L.† Preset Non-Adjustable
P.† Preset Adjustable
S.† Pressure Limiter Max. Adjustable
T.† Pressure Limiter Max. Non-Adjustable
V.†† Fluorocarbon

† Inlet Pressure is 100 PSIG. For other pressures, contact factory.
†† Fluorocarbon available with metal bowl only.

Preset / Pressure Limited
Blank. None
XXX* Preset Pressure
XXX* Pressure Limited

* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory.
(Example:
065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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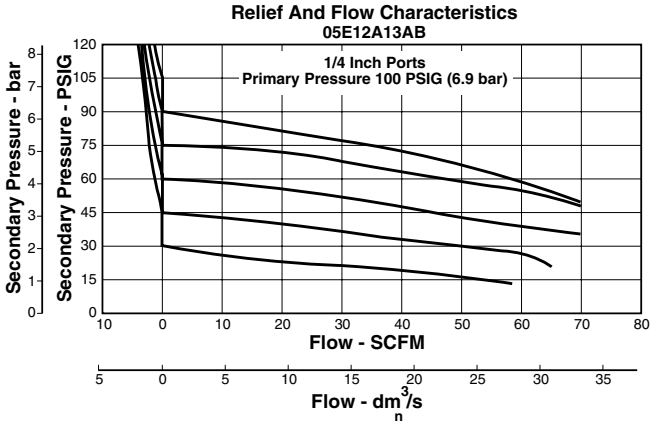
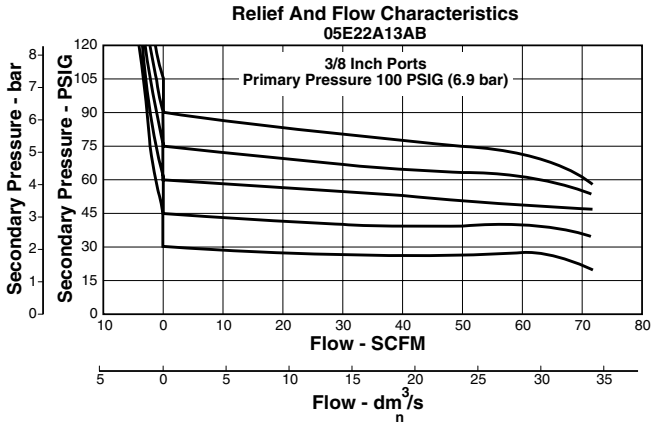




05E Filter / Regulator Kits & Accessories

Bowl Guard Kit PS905P

Bowl Kits –

Poly Bowl –	Automatic Pulse Drain	PS995P
	Semi-Auto Drain	PS992P
	Twist Drain	PS932P
	Push 'N' Drain	PS904P
Metal Bowl –	Automatic Pulse Drain	PS997P
	Semi-Auto Drain	PS994P
	Twist Drain	PS934P
	Twist Drain (Fluorocarbon)	PS934VP
	Push 'N' Drain	PS925P
	Sight Gauge / Automatic Pulse Drain	PS996P
	Sight Gauge / Semi-Auto Drain	PS993P
	Sight Gauge / Twist Drain	PS935P
	Sight Gauge / Twist Drain (Fluorocarbon)	PS935VP
	Sight Gauge / Push 'N' Drain	PS906P
Drain Kit –	Automatic Pulse Drain	PS998P
	Semi-Auto Drain	PS511P
	Twist Drain	PS512P
	Twist Drain (Fluorocarbon)	PS512VP
	Push 'N' Drain	PS513P
Filter Element Kits –	40 Micron	PS901P
	5 Micron	PS902P
	Adsorber	PS931P

Sight Gauge Kit PS914P

Gauges – 1-1/2" Dial Face

30 PSIG (0 to 200 kPa)	RRP-96-663
60 PSIG (0 to 400 kPa)	RRP-96-664
160 PSIG (0 to 1100 kPa)	RRP-96-665
300 PSIG (0 to 2000 kPa)	RRP-96-666

2" Dial Face

60 PSIG (0 to 400 kPa)	P781641
160 PSIG (0 to 1100 kPa)	P781642
300 PSIG (0 to 2000 kPa)	P781643

Pressure Sensor – 0 to 145 PSI MPS-P31N-PC

Mounting Bracket Kit (Includes Panel Mount Nut) PS963P

Panel Mount Nut – Metal PS964P

Springs –

1-30 PSIG Range	P04427
1-60 PSIG Range	P04426
2-125 PSIG Range	P04425
2-200 PSIG	P02934

Relieving Service Kit PS908P

Non-Relieving Service Kit PS909P

Bonnet Assembly Kit PS915P

Specifications

Bowl Capacity ..... 2.0 Ounces

Gauge Port (2) ..... 1/4 Inch

Sump Capacity ..... .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 (.7 to 10.3 bar)

Weight ..... 1.35 lb. (.6 kg)

Materials of Construction

Adjusting Stem ..... Steel

Body ..... Zinc

Bonnet, Internal Parts ..... Plastic

Bowl Guard ..... Steel

Collar ..... Plastic

Diaphragm ..... Nitrile

Drain ..... Plastic

Filter Elements –

40 Micron (Standard)	Plastic
5 Micron (Optional)	Plastic
Adsorber (Optional)	Activated Charcoal

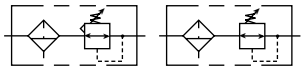
Knob ..... Plastic

Seals ..... Nitrile

Sight Gauge ..... Polyamide (Nylon)

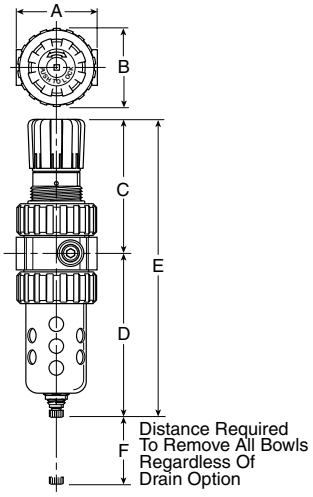
Springs – Poppet & Control ..... Steel

06E Filter / Regulator – Compact



Features

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



Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Poly Bowl ‡ / Metal Guard				
1/4"	**06E12A13AC**	**06E16A13AC**	06E12A13AC1	06E16A13AC1
3/8"	**06E22A13AC**	**06E26A13AC**	06E22A13AC1	06E26A13AC1
1/2"	**06E32A13AC**	**06E36A13AC**	06E32A13AC1	06E36A13AC1
Metal Bowl / Sight Gauge				
1/4"	**06E14A13AC**	**06E18A13AC**	06E14A13AC1	06E18A13AC1
3/8"	**06E24A13AC**	**06E28A13AC**	06E24A13AC1	06E28A13AC1
1/2"	**06E34A13AC**	**06E38A13AC**	06E34A13AC1	06E38A13AC1

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

Inches (mm)
† With Auto Float Drain

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see caution in Product Selection Chart 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. Maximum panel thickness 1/4".

⚠ 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	A	13	A	C	—	—	---

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
5. Auto Float Drain	7. Auto Float Drain
6. Metal Bowl Guard / Auto Float Drain	**8. Sight Gauge / Auto Float Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J.Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
A. 40 Micron
B. 5 Micron
Z. Adsorber

Relief
A. Relieving
L. Non-Relieving

Pressure Range

Without Gauge	With Gauge
10. 30 PSIG	**17. 30 PSIG**
11. 60 PSIG	**16. 60 PSIG**
13. 125 PSIG	**18. 125 PSIG**
15.§ 250 PSIG	**21.§ 250 PSIG**

§ NOTE: If 250 PSIG spring range is used, use metal bowl.

Engineering Level
C. Current

Port Type
Blank. NPT
1. BSPP
2. BSPT

Options
Blank. No Options
L.† Preset Non-Adjustable
P.† Preset Adjustable

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

Preset
Blank. None
XXX* Preset Pressure

* Available Preset Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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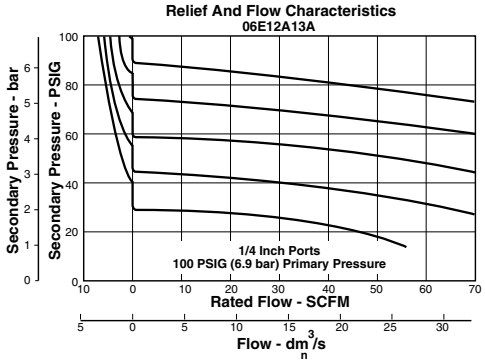

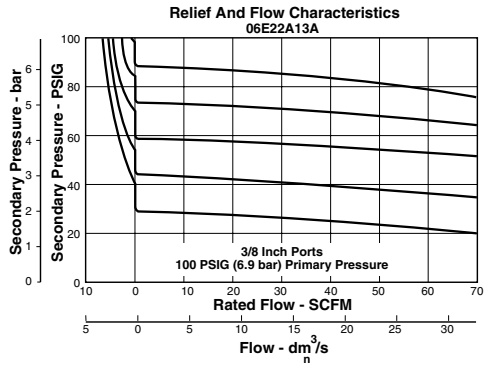

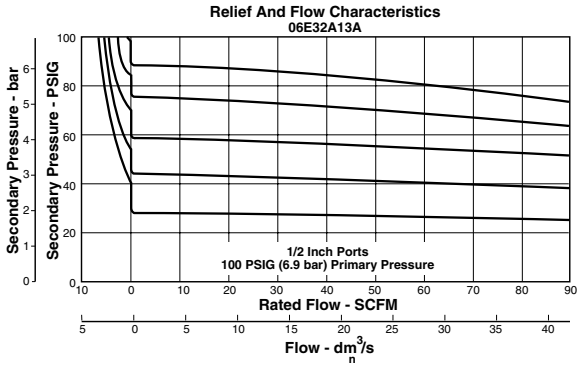

06E Filter / Regulator Kits & Accessories

Bonnet Assembly Kit PS715P
Bowl Guard Kit PS705P
Bowl Kits –
Poly Bowl – Automatic Float Drain PS722P
Semi-Auto Drain PS792P
Twist Drain PS732P
Push 'N' Drain PS704P
Metal Bowl – Automatic Float Drain PS726P
Semi-Auto Drain PS794P
Twist Drain PS734P
Push 'N' Drain PS725P
Sight Gauge / Automatic Drain PS723P
Sight Gauge / Semi-Auto Drain PS793P
Sight Gauge / Twist Drain PS735P
Sight Gauge / Push 'N' Drain PS706P
Control Knob P04069B
Drain Kits – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P
Filter Element Kits – 40 Micron PS701P
5 Micron PS702P
Adsorber PS731P
Gauges – 60 PSIG (0 to 414 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
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
Sight Gauge Kit PS714P
Springs – 1- 30 PSIG Range P01698
1- 60 PSIG Range P04062
2- 125 PSIG Range P04063
5- 250 PSIG Range P04064
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 1035 kPa)
32°F to 125°F (0°C to 52°C)
Metal Bowl – 0 to 250 PSIG (0 to 1725 kPa)
32°F to 175°F (0°C to 80°C)
Secondary Pressure Ranges –
Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Low Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
High Pressure ..... 5 to 250 PSIG (35 to 1725 kPa)
Sump Capacity ..... 1.75 Ounces
Weight ..... 1.6 lb. (.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
Manual Push 'N' Drain Optional
Body ..... Nitrile
Stem ..... Brass
Automatic Float Drain Optional
(Interchangeable for Field Conversions)
Operating Range ..... 10 to 250 PSIG (0.7 to 17 kPa)
Housing, Float ..... Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Knob ..... Plastic
Filter Elements – 40 Micron (Standard) ..... Plastic
5 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal
Seals ..... Nitrile
Sight Gauge ..... Polyamide
Springs – Poppet ..... Stainless
Control ..... Steel

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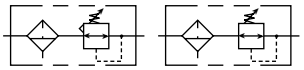
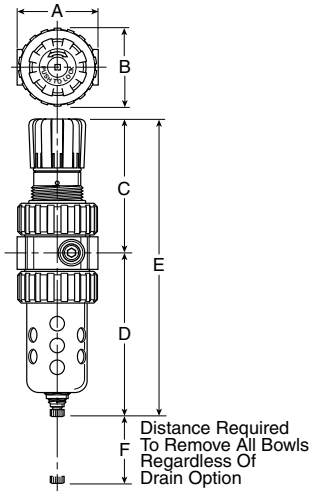
07E Filter / Regulator – Standard



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		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Poly Bowl ‡ / Metal Guard				
3/8"	**07E22A13AC**	**07E26A13AC**	07E22A13AC1	07E26A13AC1
1/2"	**07E32A13AC**	**07E36A13AC**	07E32A13AC1	07E36A13AC1
3/4"	**07E42A13AC**	**07E46A13AC**	07E42A13AC1	07E46A13AC1
Metal Bowl / Sight Gauge				
3/8"	**07E24A13AC**	**07E28A13AC**	07E24A13AC1	07E28A13AC1
1/2"	**07E34A13AC**	**07E38A13AC**	07E34A13AC1	07E38A13AC1
3/4"	**07E44A13AC**	**07E48A13AC**	07E44A13AC1	07E48A13AC1

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

Inches (mm)
† With Auto Float Drain

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see caution in Product Selection Chart 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. Maximum panel thickness 1/4".

⚠ 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	A	13	A	C	—	—	---

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
5. Auto Float Drain	7. Auto Float Drain
6. Metal Bowl Guard / Auto Float Drain	**8. Sight Gauge / Auto Float Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J.Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
A. 40 Micron
B. 5 Micron
Z. Adsorber

Relief
A. Relieving
L. Non-Relieving

Pressure Range

Without Gauge	With Gauge
10. 30 PSIG	**17. 30 PSIG**
11. 60 PSIG	**16. 60 PSIG**
13. 125 PSIG	**18. 125 PSIG**
15.§ 250 PSIG	**21.§ 250 PSIG**

§ NOTE: If 250 PSIG spring range is used, use metal bowl.

Engineering Level
C. Current

Port Type
Blank. NPT
1. BSPP
2. BSPT

Options
Blank. No Options
L.† Preset Non-Adjustable
P.† Preset Adjustable

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

Preset
Blank. None
XXX* Preset Pressure

* Available Preset Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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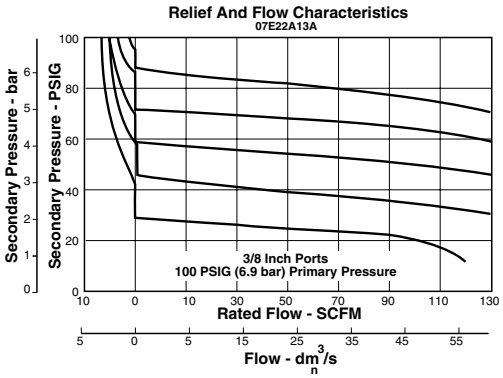
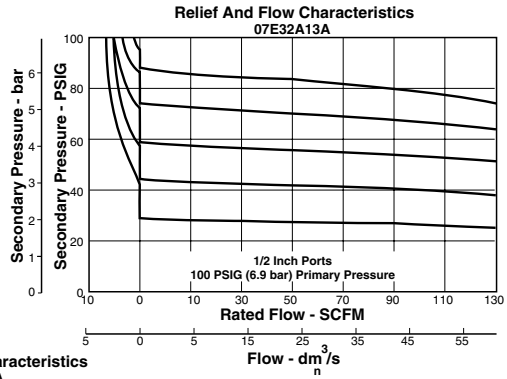
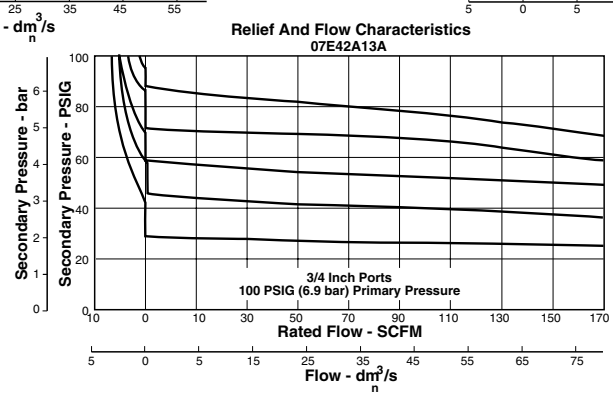






07E Filter / Regulator Kits & Accessories

Bonnet Assembly Kit PS715P
Bowl Guard Kit PS805P
Bowl Kits –
Poly Bowl – Automatic Float Drain PS822P
Semi-Auto Drain PS892P
Twist Drain PS832P
Push 'N' Drain PS804P
Metal Bowl – Automatic Float Drain PS826P
Semi-Auto Drain PS894P
Twist Drain PS834P
Push 'N' Drain PS825P
Sight Gauge / Automatic Float Drain PS823P
Sight Gauge / Semi-Auto Drain PS893P
Sight Gauge / Twist Drain PS835P
Sight Gauge / Push 'N' Drain PS806P
Control Knob P04069B
Drain Kits – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P
Filter Element Kits – 40 Micron PS801P
5 Micron PS802P
Adsorber PS831P
Gauges – 60 PSIG (0 to 414 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit (Includes Panel Mount Nut) PS807P
Panel Mount Nut P04082
Service Kits – Non-Relieving (Includes Poppet) PS811P
Relieving (Includes Poppet) PS810P
Seat Insert Kit PS813P
Sight Gauge Kit PS814P
Springs – 1- 30 PSIG Range P01698
1- 60 PSIG Range P04062
2- 125 PSIG Range P04063
5- 250 PSIG Range P04064
Tamperproof Kit (Key Lock) PS737P

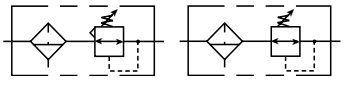
Specifications

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 1035 kPa)
32°F to 125°F (0°C to 52°C)
Metal Bowl – 0 to 250 PSIG (0 to 1725 kPa)
32°F to 175°F (0°C to 80°C)
Secondary Pressure Ranges –
Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Low Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
High Pressure ..... 5 to 250 PSIG (35 to 1725 kPa)
Sump Capacity ..... 2.8 Ounces
Weight ..... 2.5 lb. (1.1 kg)

Materials of Construction

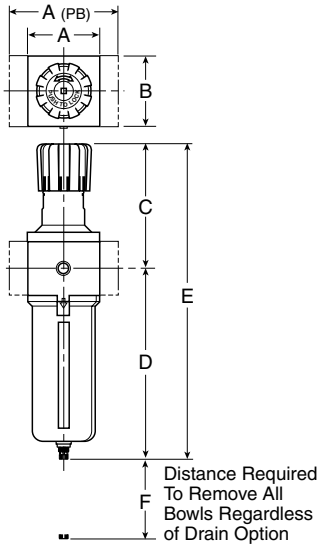
Adjusting Stem ..... Steel
Body ..... Zinc
Bonnet, Internal Parts ..... Plastic
Bowls Available – Transparent ..... Polycarbonate
Metal (With or Without Sight Gauge) ..... Zinc
Bowl Guard ..... Steel
Collar ..... Plastic or Metal
Diaphragm ..... Nitrile
Drains – Twist Drain Standard
Body & Nut ..... Plastic
Push 'N' Drain Optional
Body ..... Nitrile
Stem ..... Brass
Automatic Float Drain Optional
(Interchangeable for Field Conversions)
Operating Range ..... 10 to 250 PSIG (0.7 to 1725 kPa)
Housing, Float ..... Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Knob ..... Plastic
Filter Elements – 40 Micron (Standard) ..... Plastic
5 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal
Seals ..... Nitrile
Sight Gauge ..... Polyamide
Springs – Poppet ..... Stainless
Control ..... Steel

P3NE Filter / Regulator – 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 auto drain.
- Self relieving feature plus balanced poppet provides quick response and accurate pressure regulation.
- Solid control piston for extended life.
- High Flow: 3/4" – 250 SCFM §
  1" – 250 SCFM §
  1-1/2 – 250 SCFM §



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Port Size	NPT		BSPP	
	Twist Drain	Automatic Float Drain	Twist Drain	Automatic Float Drain
Metal Bowl / Sight Gauge				
3/4"	**P3NEA96GSMBNN**	**P3NEA96GSABNN**	P3NEA16GSMBNN	P3NEA16GSABNN
1"	**P3NEA98GSMBNN**	**P3NEA98GSABNN**	P3NEA18GSMBNN	P3NEA18GSABNN
1-1/2" #	**P3NEA9PGSMBNN**	**P3NEA9PGSABNN**	P3NEA1PGSMBNN	P3NEA1PGSABNN

P3NE Piggyback Dimensions		
A 3.62 (92)	**A (PB)** 5.91 (150)	**B** 3.62 (92)
C 6.38 (162)	**D†** 9.57 (243)	**E†** 15.95 (405)
F 4.92 (125)		

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

Standard part numbers shown, for other models refer to ordering information below.
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.

⚠ WARNING

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

Ordering Information

P3N	E	A	9	8	G	S	M	B	N	N

Design Level

Port Type
1. G Thread (BSPP) Female
2. Rc Thread (BSPT) Female
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)

Element
A. Adsorber
E. 5 Micron
G. 40 Micron

Bowl
S. Metal Bowl w/ Sight Gauge

Drains
M. Twist Drain
A. Automatic Float Drain
P. Push 'N' Drain
S. Semi-Auto Drain

Relief
B. Relieving
N. Non-Relieving

Adjustment
N. Non-Rising Knob

Pressure Range
w/o Gauge
L. 60 PSI (0 to 4 bar)
N. 125 PSI (0 to 8 bar)
H. 250 PSI (0 to 17 bar)
w/ Gauge
M. 60 PSI (0 to 4 bar)
G. 125 PSI (0 to 8 bar)
J. 250 PSI (0 to 17 bar)

NOTE: BOLD OPTIONS ARE STANDARD.

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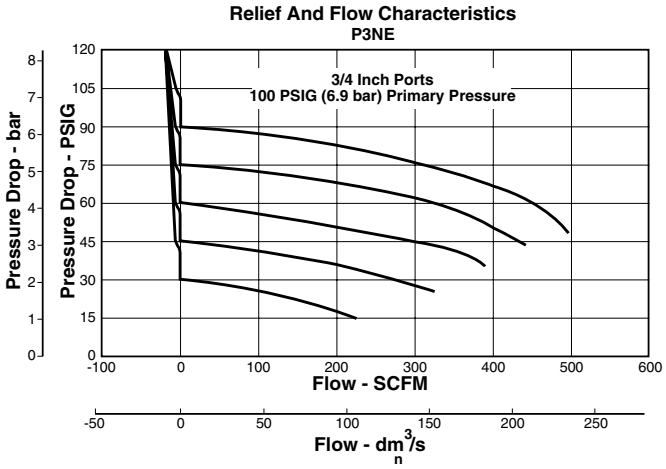
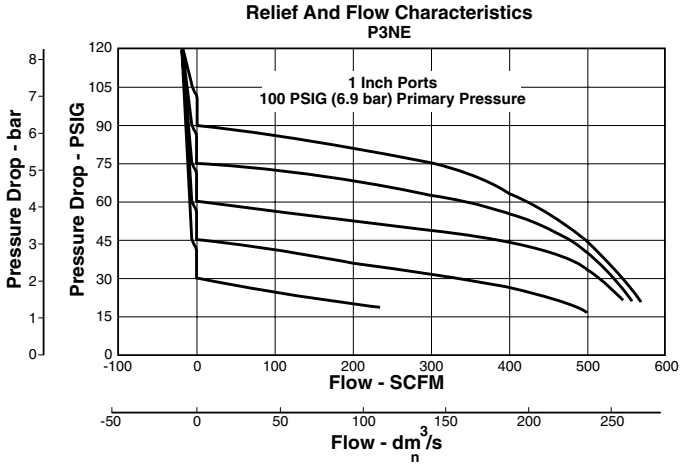
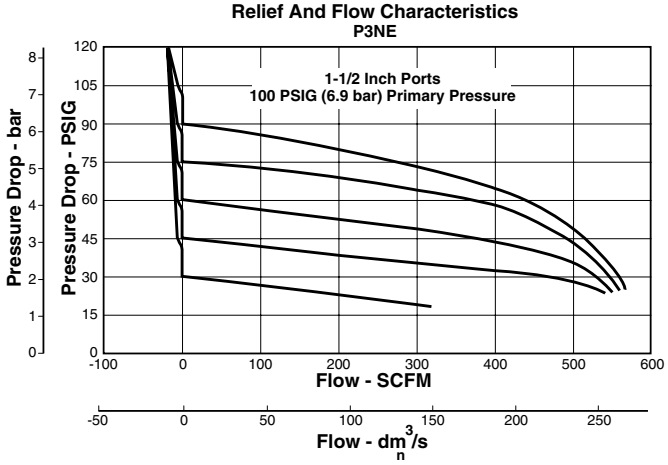
Technical Information







P3NE Filter / Regulator Kits & Accessories

Bowl Kits –
Metal Bowl – Sight Gauge / Automatic Float Drain . P3NKA00BSA
Sight Gauge / Twist Drain P3NKA00BSM
Sight Gauge / Push 'N' Drain P3NKA00BSP

Bowl Latch Kit C11A33

Control Knob P3NKA00PN

Drain Kit – Automatic Float Drain PS506P
Semi-Auto Drain PS511P
Twist Drain PS512P
Push 'N' Drain PS513P

Filter Element Kits – 40 Micron P3NKA00ESG
5 Micron P3NKA00ESE
Adsorber P3NKA00ESA

Gauges – 60 PSIG (0 to 414 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643

Pressure Sensor – 0 to 145 PSI MPS-P31N-PC

Mounting Bracket Kit* P3NKA00MW

Service Kit – Relieving P3NKA00RR
Non-Relieving P3NKA00RN

Sight Gauge Kit P3NKA00PE

Springs – 1-60 PSIG Range C10A1304
2-125 PSIG Range C10A1308
5-250 PSIG Range C10A1317

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

Specifications

Bowl Capacity ..... 18.0 Ounces

Gauge Ports (2) ..... 1/4 Inch

Port Threads ..... 3/4, 1, 1-1/2# Inch

Pressure & Temperature Rating –0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
For Secondary Pressure Ranges see above charts.

Sump Capacity ..... 6.8 Ounces

Weight – 3/4" ..... 5.3 lb. (2.4 kg)
1" ..... 5.3 lb. (2.4 kg)
1-1/2" # ..... 6.43 lb. (2.9 kg)

Materials of Construction

Adjusting Stem ..... Steel

Body, Bonnet, Bowl ..... Aluminum

Drain ..... Plastic

Filter Elements – 40 Micron (Standard) ..... Plastic
5 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal

Knob ..... Plastic

Piston ..... Plastic

Seals ..... Nitrile

Sight Gauge ..... Polyamide (Nylon)

Springs – Poppet & Control ..... Steel

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

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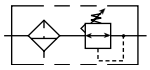
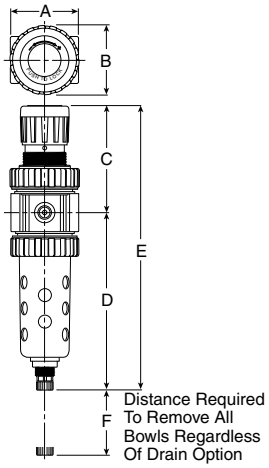
27E Filter / Regulator – Precision



Features

- Excellent water removal efficiency.
- High flow.
- Fine adjustment sensitivity.
- Good repeatability and minimal pressure drop.
- Modular with 05 Series FRL
- Non-Rising removable adjustment knob.



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Port Size	NPT		BSPP	
	Twist Drain	Automatic Pulse Drain	Twist Drain	Automatic Pulse Drain
Poly Bowl / Metal Guard				
1/4"	**27E12A13AB**	**27E1PA13AB**	27E12A13AB1	27E1PA13AB1
3/8"	**27E22A13AB**	**27E2PA13AB**	27E22A13AB1	27E2PA13AB1
Metal Bowl / Sight Gauge				
1/4"	**27E14A13AB**	**27E1TA13AB**	27E14A13AB1	27E1TA13AB1
3/8"	**27E24A13AB**	**27E2TA13AB**	27E24A13AB1	27E2TA13AB1

Standard part numbers shown, for other models refer to ordering information below.

27E Piggyback 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 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

27E	1	2	A	13	A	B	—	—	---

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

Bowl Options

Polycarbonate Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
N. Automatic Pulse Drain	R. Automatic Pulse Drain
P. Metal Bowl Guard / Automatic Pulse Drain	**T. Sight Gauge / Auto Pulse Drain**
E. Push'N' Drain	G. Push'N' Drain
F. Metal Bowl Guard / Push'N' Drain	**H. Metal Bowl Guard / Push'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Elements
A. 40 Micron
B. 5 Micron
Z. Adsorber

Pressure Range

Without Gauge	
10.	**30 PSIG**
11.	**60 PSIG**
12.	**15 PSIG**
13.	**125 PSIG**
14.§	**200 PSIG**

§ Requires Metal Bowl

Relief
A. Relieving

Engineering Level
B. Current

Port Type
Blank. NPT
1. BSPP
2. BSPT

Options
Blank. No Options
L.† Preset Non-Adjustable
P.† Preset Adjustable
S.† Pressure Limiter Max. Adjustable
T.† Pressure Limiter Max. Non- Adjustable
V.†† Fluorocarbon

† Inlet Pressure is 100 PSIG. For other pressures, contact factory.
†† Fluorocarbon available with metal bowl only.

Preset / Pressure Limited
Blank. None
XXX* Preset Pressure
XXX* Pressure Limited

* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory.
(Example:
065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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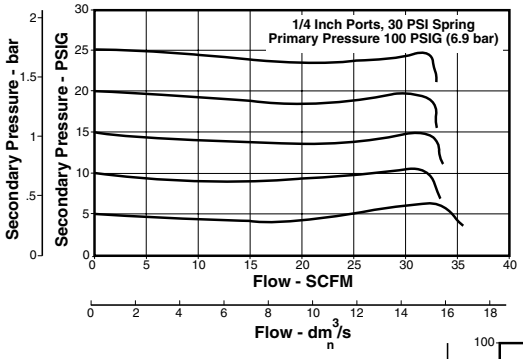
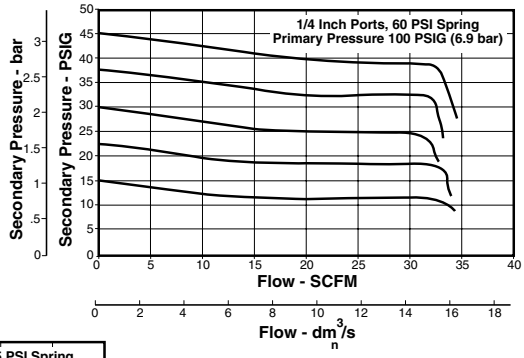
Technical Information

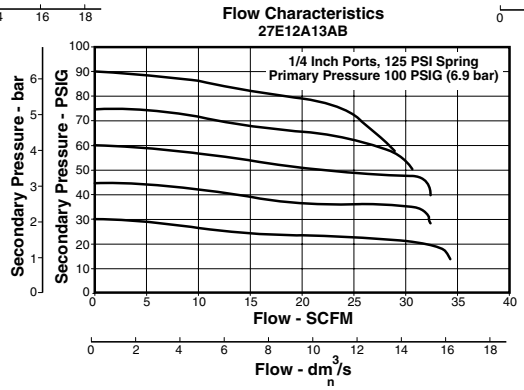
Flow Characteristics
27E12A10AB



Flow Characteristics
27E12A11AB



Flow Characteristics
27E12A13AB



27E Filter / Regulator Kits & Accessories

Bowl Guard Kit PS905P
Bowl Kits –
Poly Bowl – Automatic Pulse Drain PS995P
Semi-Auto Drain PS992P
Twist Drain PS932P
Push 'N' Drain PS904P
Metal Bowl – Automatic Pulse Drain PS997P
Semi-Auto Drain PS994P
Twist Drain PS934P
Twist Drain (Fluorocarbon) PS934VP
Push 'N' Drain PS925P
Sight Gauge / Automatic Pulse Drain PS996P
Sight Gauge / Semi-Auto Drain PS993P
Sight Gauge / Twist Drain PS935P
Sight Gauge / Twist Drain (Fluorocarbon) .. PS935VP
Sight Gauge / Push 'N' Drain PS906P
Control Knob P0442001
Drain Kit – Automatic Pulse Drain PS998P
Semi-Auto Drain PS511P
Twist Drain PS512P
Twist Drain (Fluorocarbon) PS512VP
Push 'N' Drain PS513P
Filter Element Kits – 40 Micron PS901P
5 Micron PS902P
Adsorber PS931P
Sight Gauge Kit PS914P
Gauges – 1-1/2" Dial Face
30 PSIG (0 to 200 kPa) RRP-96-663
60 PSIG (0 to 400 kPa) RRP-96-664
160 PSIG (0 to 1100 kPa) RRP-96-665
300 PSIG (0 to 2000 kPa) RRP-96-666
2" Dial Face
60 PSIG (0 to 400 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Mounting Bracket Kit (Includes Panel Mount Nut) PS963P
Panel Mount Nut – Metal PS964P
Springs – 1-15 PSIG Range P04428
1-30 PSIG Range P04427
1-60 PSIG Range P04426
2-125 PSIG Range P04425
2-200 PSIG P02934
Regulator Service Kit PS907P
Bonnet Assembly Kit PS910P

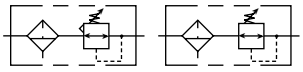
Specifications

Bowl Capacity ..... 2.0 Ounces
Bleed Rate ..... 2.0 SCFH
Gauge Ports (2) ..... 1/4 Inch
Effect of Supply Pressure Variation –
0.5 PSIG (3.5 kPa) for 25 PSIG (173 kPa) change in P_1
Flow Capacity –
33 SCFM (15.6 dm²/s) @ 100 PSIG (690 kPa) P_1
and 20 PSIG (138 kPa) P_2
Sump Capacity ..... .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 (.7 to 10.3 bar)
Relief Capacity –
0.5 SCFM (0.24 dm²/s) @ 5 PSIG (35 kPa) increase in P_2
Repeatability ..... ±.14 PSIG (±0.97 kPa)
Response – ..... 510 ms
The valve will open to full flow and fill a volume of 100 in³
Weight ..... 1.35 lb. (.6 kg)

Materials of Construction

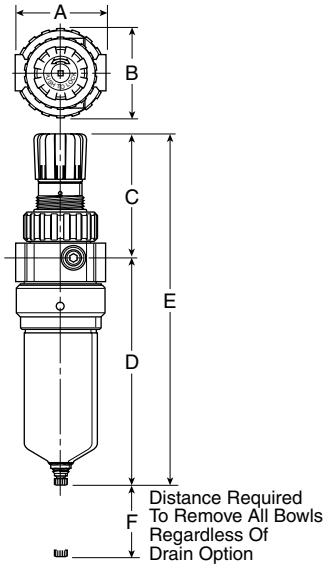
Adjusting Stem ..... Steel
Body ..... Zinc
Bonnet, Internal Parts ..... Plastic
Bowl Guard ..... Steel
Collar ..... Plastic
Diaphragm ..... Nitrile
Drain ..... Plastic
Filter Elements – 40 Micron (Standard) ..... Plastic
5 Micron (Optional) ..... Plastic
Adsorber (Optional) ..... Activated Charcoal
Knob ..... Plastic
Poppet ..... Brass
Seals ..... Nitrile
Sight Gauge ..... Polyamide (Nylon)
Springs – Poppet & Control ..... Steel

12E 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.
- High Flow: 3/8" – 35 SCFM§
  1/2" – 40 SCFM§
  3/4" – 45 SCFM§



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Port Size	NPT	BSPP
Twist Drain		
3/8"	**12E23E13AA**	12E23E13AA1
1/2"	**12E33E13AA**	12E33E13AA1
3/4"	**12E43E13AA**	12E43E13AA1
Automatic Float Drain		
3/8"	**12E27E13AA**	12E27E13AA1
1/2"	**12E37E13AA**	12E37E13AA1
3/4"	**12E47E13AA**	12E47E13AA1

12E Piggyback Dimensions

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

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

Standard part numbers shown, for other models refer to ordering information below.

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

§ SCFM = Standard cubic feet per minute at 150 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

12E	3	3	E	13	A	A	—	—	---

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

Bowl Options

Metal Bowl
- **3. Twist Drain**
- **7. Automatic Float Drain**
- **G. Push 'N' Drain**

Elements
- **E. Grade 6**
- H. Grade 10

Port Size

Without Gauge
- **10. 30 PSIG**
- **11. 60 PSIG**
- **13. 125 PSIG**
- **15. 250 PSIG**

With Gauge
- **16. 60 PSIG**
- **17. 30 PSIG**
- **18. 125 PSIG**
- **21. 250 PSIG**

Relief
- **A. Relieving**
- L. Non-Relieving

Engineering Level
- **A. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options
- **Blank. No Options**
- L.† Preset Non-Adjustable
- P.† Preset Adjustable

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

Preset
- **Blank. None**
- XXX* Preset Pressure

* Available Preset Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example: 065 = 65 PSIG)

NOTE: BOLD OPTIONS ARE STANDARD.

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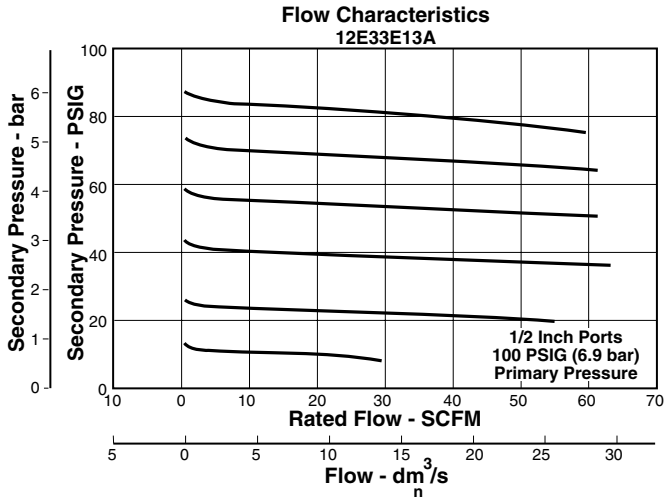

12E Filter / Regulator Kits & Accessories

Bonnet Assembly Kit PS715P
Bowl Kits –
Metal Bowl – Automatic Float Drain PS826P
Twist Drain PS834P
Push 'N' Drain PS825P
Control Knob P04069B
Drain Kits – Automatic Float Drain PS506P
Twist Drain PS512P
Push 'N' Drain PS513P
Filter Element Kits – PS884P
Grade 10 ..... PS885P
Gauges – 60 PSIG (0 to 414 kPa) P781641
160 PSIG (0 to 1100 kPa) P781642
300 PSIG (0 to 2000 kPa) P781643
Mounting Bracket Kit (Includes Panel Mount Nut) PS807P
Pressure Sensor – 0 to 145 PSI MPS-P31N-PC
Service Kits – Non-Relieving (Includes Poppet) PS887P
Relieving (Includes Poppet) PS886P
Springs – 1- 30 PSIG Range P01698
1- 60 PSIG Range P04062
2- 125 PSIG Range P04063
5- 250 PSIG Range P04064
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 1725 kPa)
32°F to 175°F (0°C to 80°C)
Secondary Pressure Ranges –
Standard Pressure ..... 2 to 125 PSIG (14 to 863 kPa)
Low Pressure ..... 1 to 60 PSIG (6.9 to 414 kPa)
High Pressure ..... 5 to 250 PSIG (35 to 1725 kPa)
Sump Capacity ..... 2.8 Ounces
Weight ..... 2.5 lb. (1.1kg)

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
Manual Push 'N' Drain Optional
Body ..... Nitrile
Stem ..... Brass
Automatic Float Drain Optional
(Interchangeable for Field Conversions)
Operating Range ..... 10 to 250 PSIG (0.7 to 17 kPa)
Housing, Float ..... Plastic
Seals ..... Nitrile
Springs, Push Rod ..... Stainless Steel
Knob ..... Plastic
Filter Elements ..... Borosilicate & Felt Glass Fibers
Seals ..... Nitrile
Sight Gauge ..... Polyamide
Springs – Poppet ..... Stainless

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Micro-Mist Lubricators

- Pipe Sizes 1/4 thru 3/4 Inch
- Flows to 500 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.

- Miniature 14L Series, 1/4 Inch
- 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

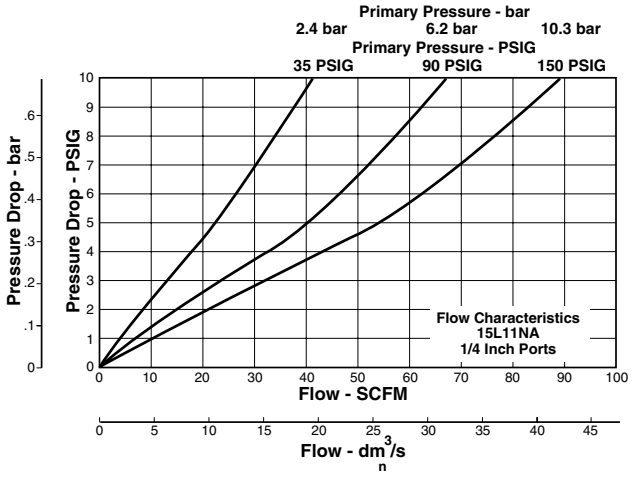
Lubricator Selection

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 Gallon	F442002
12 Quart Case	F442003
4 Gallon Case	F442005

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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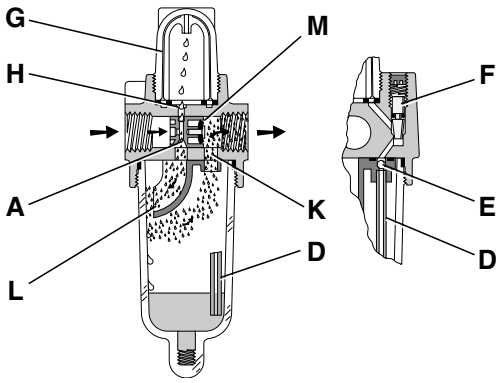
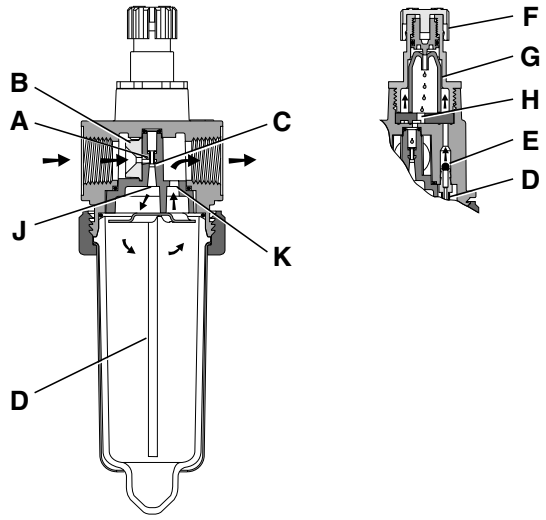
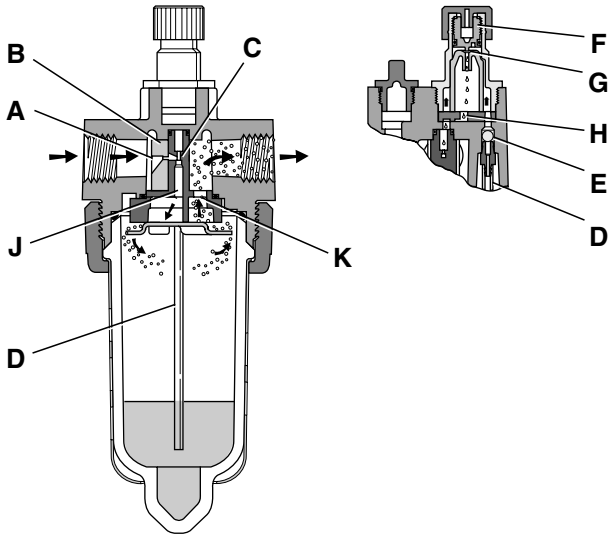


14L



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)**, restrictor disc **(M)** on 14L. 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.

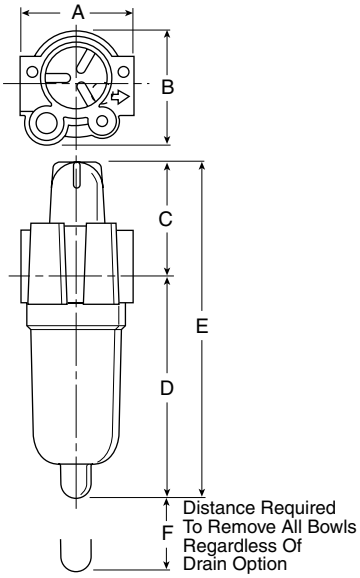
Oil then flows through the clearance between inner and outer sight domes **(G)** where drops are formed and drip into the nozzle tube **(H)**. Here it is then broken into fine particles as it expands into the low pressure venturi. From there, the atomized oil flows through the precision orifice **(J)**. On the 14L, it flows through the curved scoop **(L)** and is deflected against the interior wall of the reservoir. 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)**, **(M)**. As air flow rate increases, the flapper **(B)**, **(M)** 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.**

14L Micro-Mist Lubricators – Miniature

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.
- High Flow: 1/4" – 13 SCFM §



A Index

Port Size	NPT		BSPP	
	Twist Drain	No Drain	Twist Drain	No Drain
Poly Bowl ‡				
1/4"	—	**14L10GA**	—	14L10GA1
Metal Bowl without Sight Gauge				
1/4"	**14L13GA**	—	14L13GA1	—

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see Caution on page 2.

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

14L Lubricator Dimensions		
A 1.68 (43)	**B** 1.61 (41)	**C** 1.64 (42)
D 3.65 (93)	**D** † 3.78 (96)	**E** 5.29 (134)
E † 5.47 (139)	**F** 1.60 (41)	

Inches (mm)

† With Twist Drain

Ordering Information

14L	1	0	G	A	—

Port Size
1. 1/4 Inch

Bowl Options

Polycarbonate Bowl	Metal Bowl
0. Without Drain	3. Twist Drain
1. Twist Drain	

Body
B. Without Tamperproof Cap. With Fill Plug
G. Without Tamperproof Cap. No Fill Plug

Engineering Level
A. Current

Port Type
Blank. NPT
1. BSPP
2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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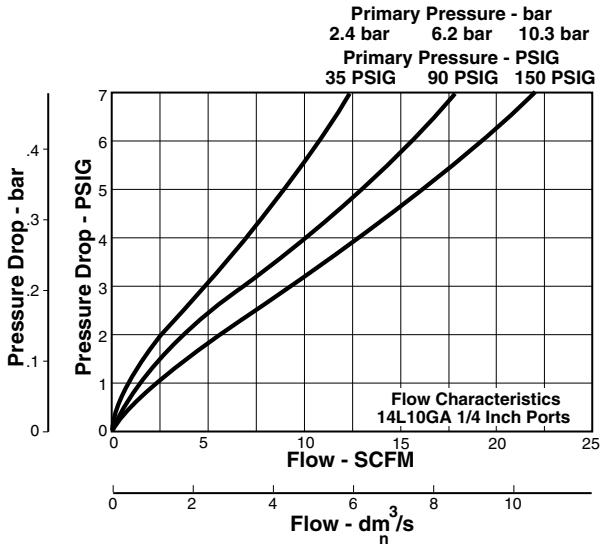

14L Micro-Mist Lubricator Kits & Accessories

Bowl Kits –

Poly Bowl – No Drain PS421P
Twist Drain PS420P

Metal Bowl – Twist Drain (No Sight Gauge) PS447BP

Mounting Bracket Kit PS417BP

Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005

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 ..... .4 lb. (.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

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Pneumatic Division
Richland, Michigan
www.parker.com/pneumatic

15L Micro-Mist Lubricators – Economy

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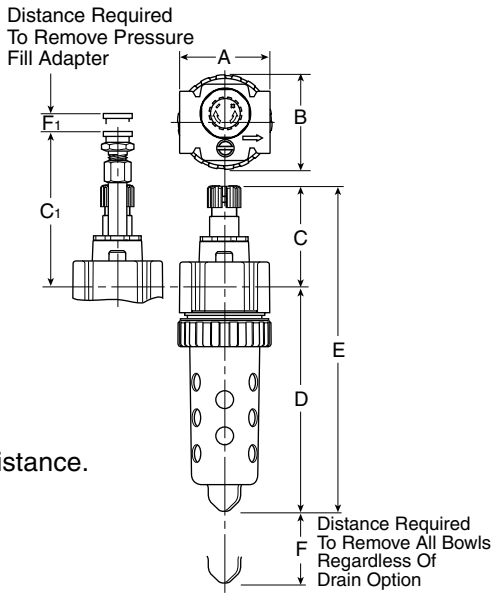
Features

- 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		BSPP	
	Twist Drain	No Drain	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard				
1/4"	—	**15L12NA**	—	15L12NA1
3/8"	—	**15L22NA**	—	15L22NA1
Metal Bowl / Sight Gauge				
1/4"	**15L14NA**	—	15L14NA1	—
3/8"	**15L24NA**	—	15L24NA1	—

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl 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)
C_1 3.35 (85)	**D** 5.12 (130)	**D** † 5.35 (136)
E 7.38 (187)	**E** † 7.61 (193)	**F** 1.77 (45)
F_1 .39 (10)		

Inches (mm)

† With Twist Drain

Ordering Information

15L	1	2	N	A	—	—

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

Bowl Options

Polycarbonate Bowl
- 1. No Drain
- **2. Metal Bowl Guard/ No Drain**
- 5. Pressure Fill
- 6. Metal Bowl Guard/ Pressure Fill
- A. Liquid Level Sensor
- B. Metal Bowl Guard / Liquid Level Sensor

Metal Bowl
- **4. Sight Gauge/ Twist Drain**
- 8. Sight Gauge/ Pressure Fill
- D. Sight Gauge / Liquid Level Sensor

Fill Options
- B. With Fill Plug
- F. With Body Pressure Fill
- **N. No Fill Plug**

Engineering Level
- **A. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

Options
- **Blank. No Options**
- V.* Fluorocarbon

* Fluorocarbon available with metal bowl, twist drain only.

NOTE: BOLD OPTIONS ARE STANDARD.

Parker Pneumatic

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Pneumatic Division
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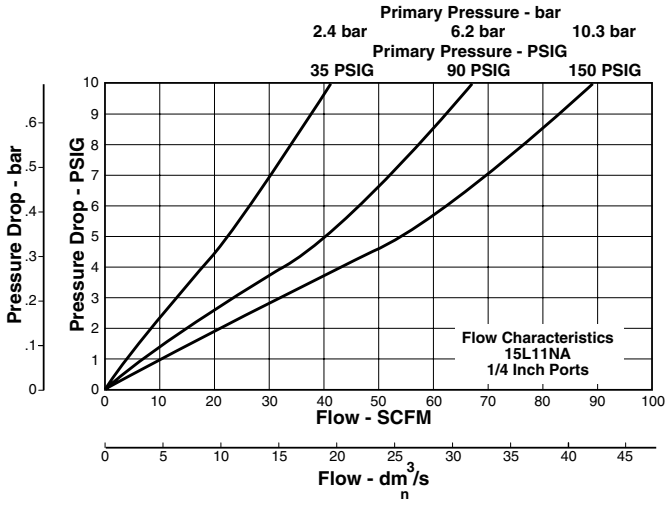
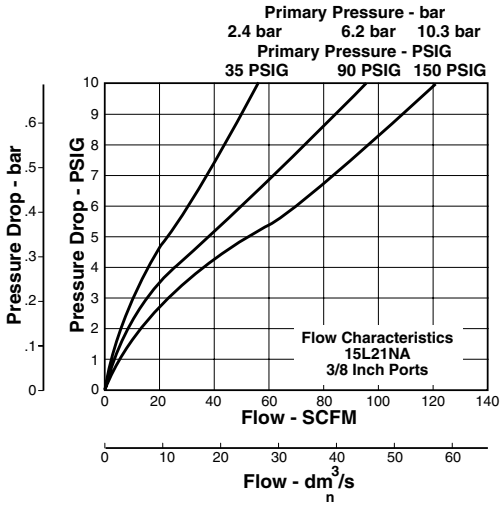




15L Micro-Mist Lubricator Kits & Accessories

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. F442002
12 Quart Case F442003
4 Gallon Case F442005
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. (.45 kg)

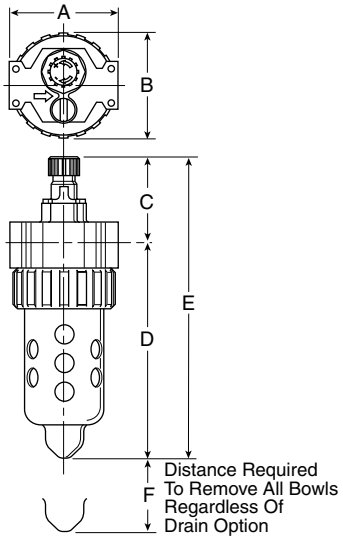
Materials of Construction

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)

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 §



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Port Size	NPT		BSPP	
	Twist Drain	No Drain	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard				
1/4"	—	**16L12BE**	—	16L12BE1
3/8"	—	**16L22BE**	—	16L22BE1
1/2"	—	**16L32BE**	—	16L32BE1
Metal Bowl / Sight Gauge				
1/4"	**16L14BE**	—	16L14BE1	—
3/8"	**16L24BE**	—	16L24BE1	—
1/2"	**16L34BE**	—	16L34BE1	—

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl 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	E	—

Port Size

- **1. 1/4 Inch**
- **2. 3/8 Inch**
- **3. 1/2 Inch**

Bowl Options

Polycarbonate Bowl
- 1. No Drain
- **2. Metal Bowl Guard / No Drain**
- 5. Pressure Fill
- 6. Metal Bowl Guard / Pressure Fill
- A. Liquid Level Sensor
- B. Metal Bowl Guard / Liquid Level Sensor
- J. Auto Fill Device
- K. Metal Bowl Guard / Auto Fill Device
- R. Twist Drain
- N. Metal Bowl Guard / Twist Drain

Metal Bowl
- **4. Sight Gauge / Twist Drain**
- 8. Sight Gauge / Pressure Fill
- D. Sight Gauge / Liquid Level Sensor
- M. Sight Gauge / Auto Fill Device

Options
- **B. With Fill Plug**
- C. With Fill Plug/Nylon Sight Dome
- F. With Body Pressure Fill
- G. With Body Pressure Fill / Nylon Sight Dome

Engineering Level
- **E. Current**

Port Type
- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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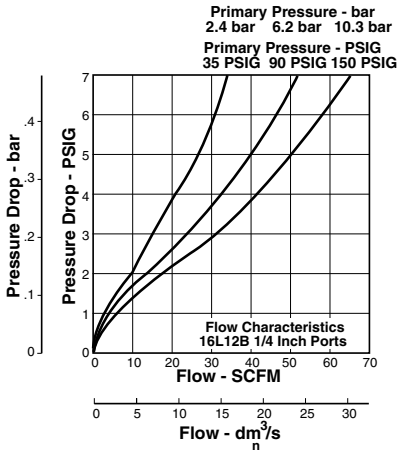
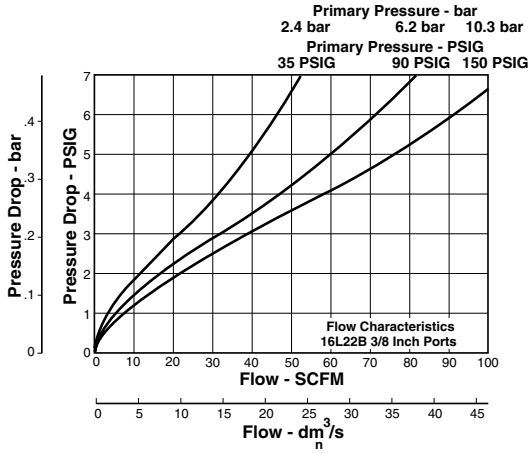
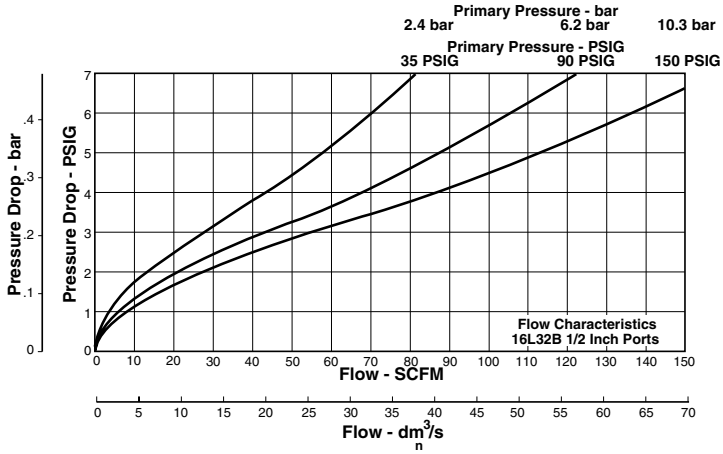






16L Micro-Mist Lubricator Kits & Accessories

Adjustment Knob P04121
Bowl Guard Kit PS705P
Bowl Kits –
Poly Bowl – No Drain PS746P
Twist Drain PS717P
Pressure Fill PS719P
Remote Fill PS728P
Metal Bowl – Sight Gauge / Twist Drain PS729P
Sight Gauge / Pressure Fill PS720P
Drain Kit – Twist Drain PS512P
Fill Cap Kit PS742P
Lubricator Service Kit PS748P
Mounting Bracket Kit PS743P
Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005
Pressure Fill Adapter Kit PS716P
Pressure Fill Button P11912
Remote Auto-Fill Device PS505CP
Sight Dome / Fill Cap Kit PS739P
Sight Dome Kit PS740P
Nylon Sight Dome Kit PS740N
Sight Gauge Kit PS714P

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)

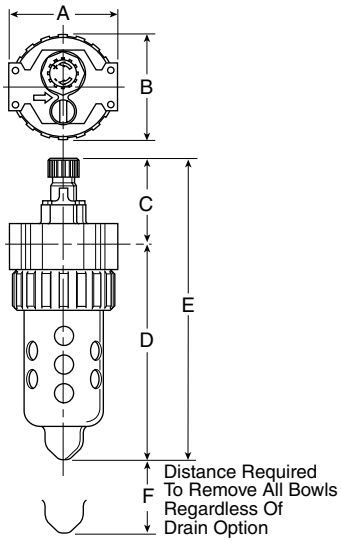
Materials of Construction

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)

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 §



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Port Size	NPT		BSPP	
	Twist Drain	No Drain	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard				
3/8"	—	**17L22BE**	—	17L22BE1
1/2"	—	**17L32BE**	—	17L32BE1
3/4"	—	**17L42BE**	—	17L42BE1
Metal Bowl / Sight Gauge				
3/8"	**17L24BE**	—	17L24BE1	—
1/2"	**17L34BE**	—	17L34BE1	—
3/4"	**17L44BE**	—	17L44BE1	—

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl 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** 9.27 (235)
E † 7.93 (201)	**F** 2.75 (70)	

Inches (mm)

† With Twist Drain

Ordering Information

17L	2	2	B	E	—

Port Size

- **2. 3/8 Inch**
- **3. 1/2 Inch**
- **4. 3/4 Inch**

Bowl Options

Polycarbonate Bowl
1. No Drain
- **2. Metal Bowl Guard / No Drain**
5. Pressure Fill
6. Metal Bowl Guard / Pressure Fill
A. Liquid Level Sensor
B. Metal Bowl Guard / Liquid Level Sensor
J. Auto Fill Device
K. Metal Bowl Guard / Auto Fill Device
R. Twist Drain
N. Metal Bowl Guard / Twist Drain

Metal Bowl
- **4. Sight Gauge / Twist Drain**
8. Sight Gauge / Pressure Fill
D. Sight Gauge / Liquid Level Sensor
M. Sight Gauge / Auto Fill Device

Options

- **B. With Fill Plug**
- C. With Fill Plug/Nylon Sight Dome
- F. With Body Pressure Fill
- G. With Body Pressure Fill/ Nylon Sight Dome

Engineering Level

- **E. Current**

Port Type

- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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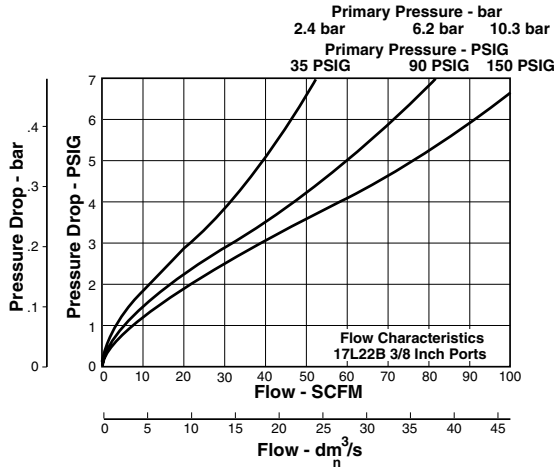
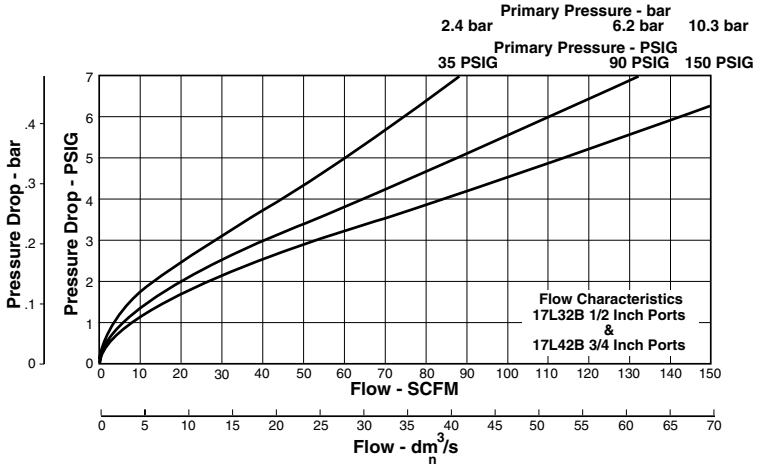




17L Micro-Mist Lubricator Kits & Accessories

Adjustment Knob P04121
Bowl Guard Kit PS805P
Bowl Kits –
Poly Bowl – No Drain PS846P
Twist Drain PS817P
Pressure Fill PS819P
Remote Fill PS828P
Metal Bowl – Sight Gauge / Twist Drain PS829P
Sight Gauge / Pressure Fill PS820P
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
Pressure Fill Button P11912
Remote Auto-Fill Device PS505CP
Sight Dome / Fill Cap Kit PS739P
Sight Dome Kit PS740P
Nylon Sight Dome Kit PS740N
Sight Gauge Kit PS814P

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)

Parker Pneumatic

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatic

Mist Lubricators

- Pipe Sizes 1/8 thru 2 Inch
- Flows to 1000 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 02L Series, 1/4 and 3/8 Inch
- Miniature P3A-LA Series, 1/8 and 1/4 Inch
- Compact 06L Series, 1/4, 3/8 and 1/2 Inch
- Standard 07L Series, 3/8, 1/2 and 3/4 Inch
- Hi-Flow P3NL Series, 3/4, 1 and 1-1/2 Inch
- Hi-Flow PL606 Series, 1, 1-1/4 and 1-1/2 Inch
- Hi-Flow 09L Series, 2 Inch

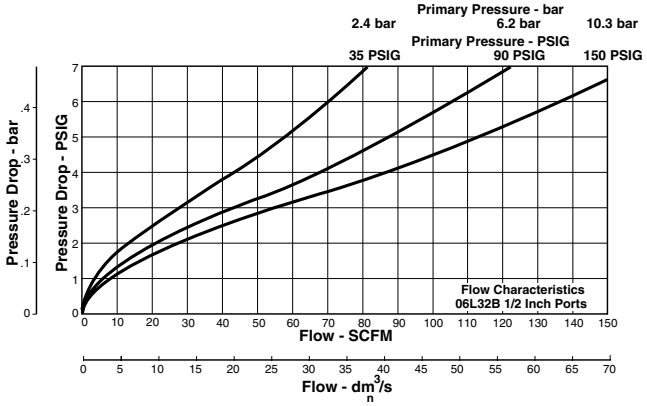
Lubricator Selection

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 Gallon	F442002
12 Quart Case	F442003
4 Gallon Case	F442005

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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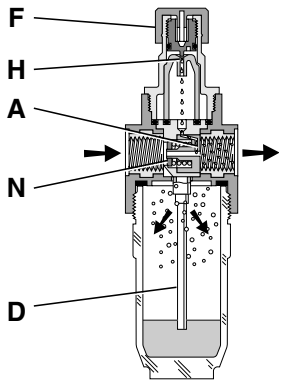
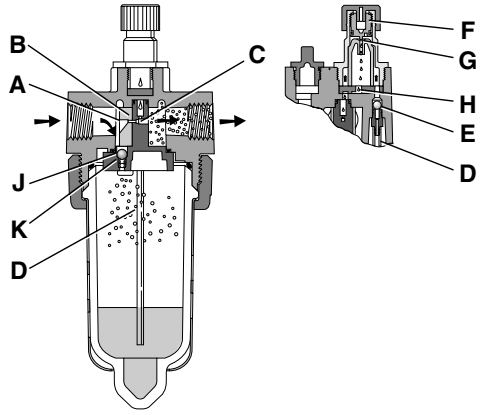


P3A-LA

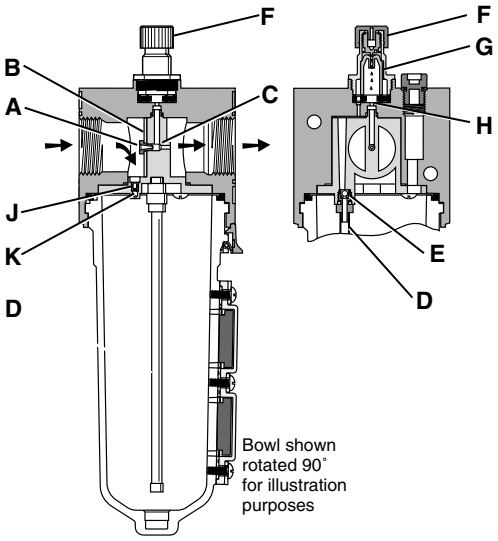


06L / 07L

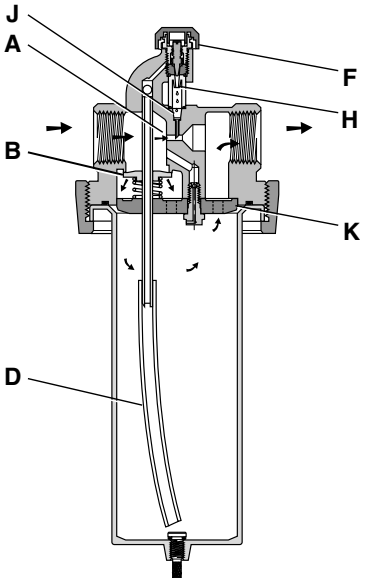
Air flowing through the unit goes through two paths. At low air flow rates, the majority of the air flows through venturi section **(A)**. The rest of the air slightly deflects and flows by the flapper **(B)**, restrictor disc **(M)** on the 09L. The velocity of the air flowing through venturi section **(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)**, **(M)**. As air flow rate increases, the flapper **(B)**, **(M)** 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.

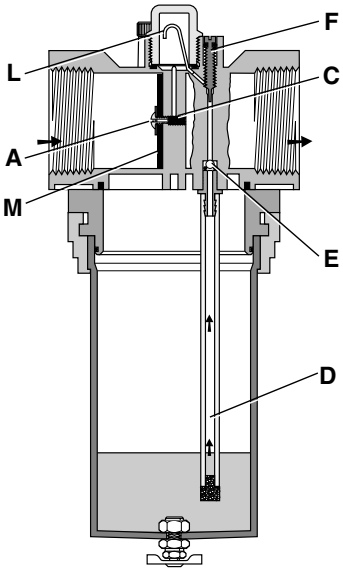
The bowl can be filled under pressure due to the action of the check ball **(J)**. When the fill cap is removed, air in the bowl escapes and pressure forces the check ball **(J)** to nearly seal at **(K)**. When the fill cap is replaced, the small amount of air flow past check ball **(J)** builds up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



P3NL



PL606



09L

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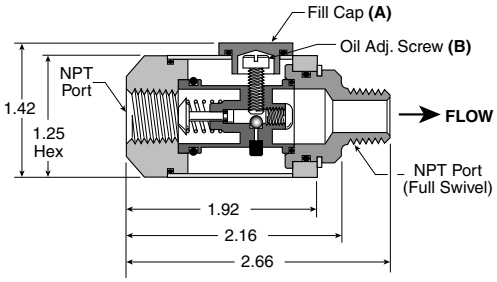
02L Lubricator – Miniature

Features

- Extends the service life of air operated hand tools.
- Reduces downtime of air operated equipment, saves money.
- Small / lightweight.
- Automatic lubrication with air tool operation.
- Adjustable oil flow.
- Corrosion resistant.
- Full swivel outlet port.

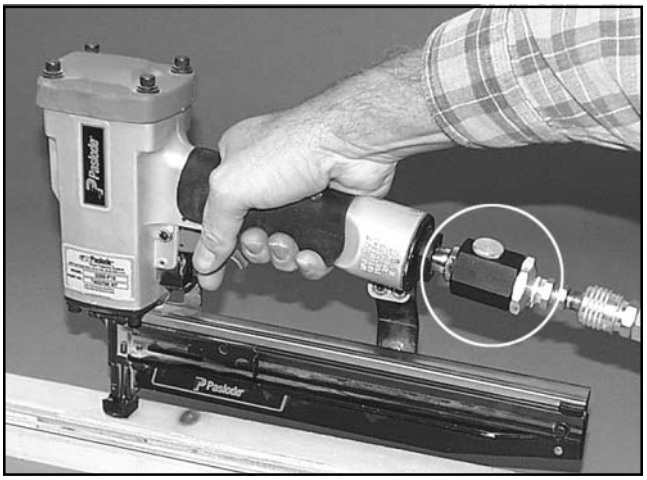


Application

The 02L lubricator is recommended to be directly attached to the air tool inlet or air appliance. These lubricators allow air tools to operate at full efficiency by preventing sticking, extending service life. Effective tool lubrication saves money by reducing equipment down time.

Operation

When the fill cap **(A)** is removed, turn oil adjustment screw **(B)** (counterclockwise for more oil, clockwise for less oil) 1/4 turn at a time to set oil adjustment to user requirements. Connect to air tool. Cycle air tool a few seconds to allow oil adjustment to become apparent. Automatic lubrication of the air occurs upon passage of the rated air flow when the tool is triggered.



Ordering Information

Port Size	Model Number
1/4"	02L1A
3/8"	02L2A

02L Accessories

Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005

02L Specifications

Oil Capacity ..... 9 cc
Flow ..... 32 SCFM At 90 PSIG inlet & 5 PSI pressure drop
Port Threads – Inlet - Stationary 1/4" & 3/8"
Outlet - Full Swivel 1/4" & 3/8"
Pressure & Temperature Rating – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 125°F (0°C to 52°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.)

02L Materials of Construction

Body ..... Hard Anodized Aluminum
Insert ..... Nylon
Nut ..... Cad. Plated Steel
Seals ..... Nitrile

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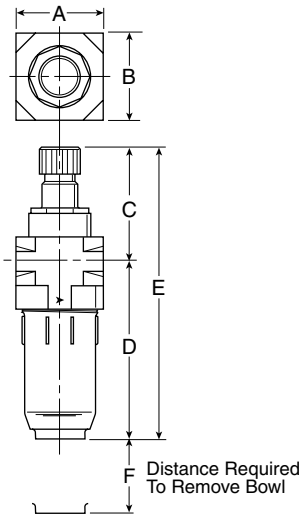
P3A-LA Mist Lubricators – Miniature

Features

- Lightweight Plastic Body
- Proportional oil delivery over a wide range of air flow.
- Precision needle valve assures repeatable oil delivery and provides simple adjustments.
- Transparent sight dome for 360° visibility.



A Index

Port Size	NPT
	No Drain
1/8"	**P3A-LA91ANNP**
1/4"	**P3A-LA92ANNP**

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see caution ON page 2.

Lubricator Dimensions			
A	**B**	**C**	**D**
1.57 (40)	1.57 (40)	2.44 (62)	3.50 (89)
E	**F**		
5.51 (140)	2.75 (70)		

Inches (mm)

† With Twist Drain

Ordering Information

P3A-LA	9	1	A	N	N	P

Port Type	Port Size	Bowl / Drain	Fill Type	Assembly Option	Bowl Material
9. NPT Female	**1. 1/8 Inch** **2. 1/4 Inch**	Polycarbonate Bowl **A. No Drain**	**N. No Fill Plug**	**N. None**	**P. Polycarbonate**

NOTE: BOLD OPTIONS ARE STANDARD.

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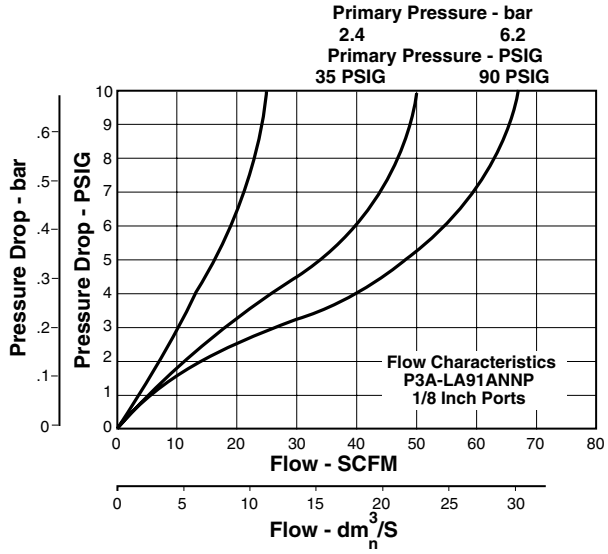

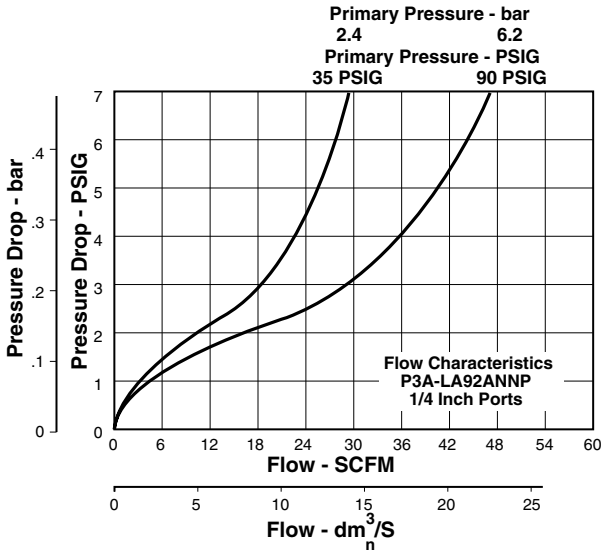

Lubricator Kits and Accessories

Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005
Plastic Bowl – No Drain P3A-KA00BAP
Service Kit P3A-KA00RLN

Specifications

Bowl Capacity ..... 0.9 Ounces
Minimum Flow for Lubrication ..... 0.4 SCFM at 100 PSIG

Operating Pressure Range	**PSIG**	**bar**	**kPa**
Maximum	120	8.3	828

Operating Temperature Range ..... 32°F to 125°F (0°C to 52°C)
Port Threads ..... 1/8, 1/4 Inch
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 ..... 0.18 lb. (.08 kg.)

Materials of Construction

Body ..... Plastic
Bowl ..... Transparent Polycarbonate
Metering Screw ..... Plastic
Port Inserts ..... Brass
Seals ..... Nitrile
Sight Dome ..... Transparent Polycarbonate
Venturi & Check Valve Assembly ..... Plastic

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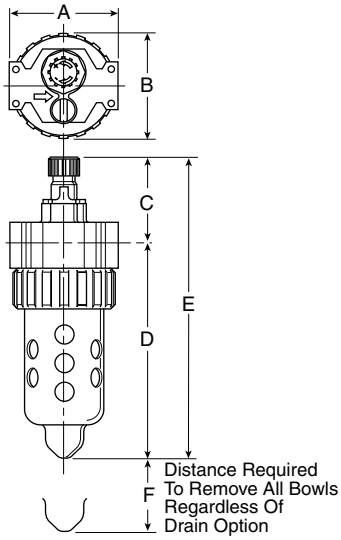
06L Mist Lubricators – Compact

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.
- Bowl can be filled while air line is under pressure.
- Transparent sight dome for 360° visibility.
- High Flow: 1/4" – 40 SCFM §
  3/8" – 60 SCFM §
  1/2" – 90 SCFM §



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Port Size	NPT		BSPP	
	Twist Drain	No Drain	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard				
1/4"	—	**06L12BE**	—	06L12BE1
3/8"	—	**06L22BE**	—	06L22BE1
1/2"	—	**06L32BE**	—	06L32BE1
Metal Bowl / Sight Gauge				
1/4"	**06L14BE**	—	06L14BE1	—
3/8"	**06L24BE**	—	06L24BE1	—
1/2"	**06L34BE**	—	06L34BE1	—

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see caution in Product Selection Chart page 2.

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

06L 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

06L	1	2	B	E	—

Port Size

1. 1/4 Inch
2. 3/8 Inch
3. 1/2 Inch

Bowl Options

Polycarbonate Bowl
1. No Drain
2. Metal Bowl Guard / No Drain
5. Pressure Fill
6. Metal Bowl Guard / Pressure Fill
A. Liquid Level Sensor
B. Metal Bowl Guard / Liquid Level Sensor
J. Auto Fill Device
K. Metal Bowl Guard / Auto Fill Device
R. Twist Drain
N. Metal Bowl Guard / Twist Drain

Metal Bowl
4. Sight Gauge / Twist Drain
8. Sight Gauge / Pressure Fill
D. Sight Gauge / Liquid Level Sensor
M. Sight Gauge / Auto Fill Device

Options

B. With Fill Plug
C. With Fill Plug/Nylon Sight Dome
F. With Body Pressure Fill
G. With Body Pressure Fill/ Nylon Sight Dome

Engineering Level

E. Current

Port Type

Blank. NPT
1. BSPP
2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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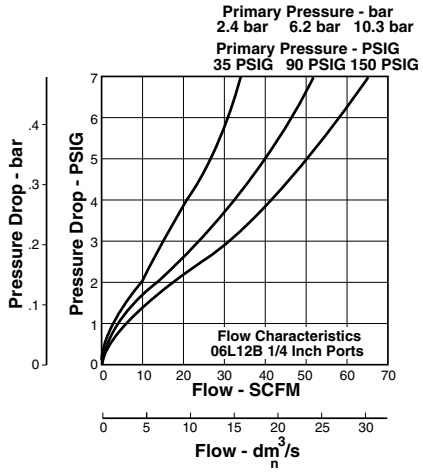

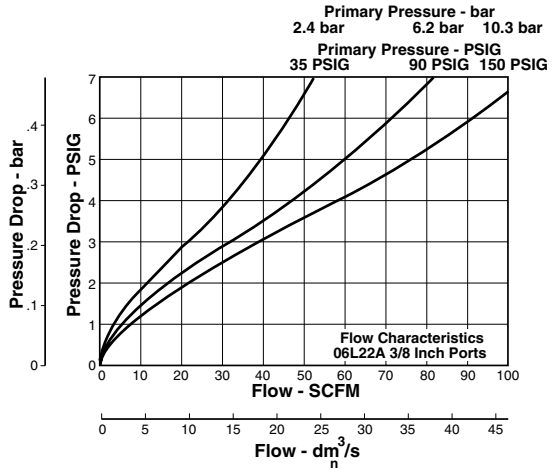

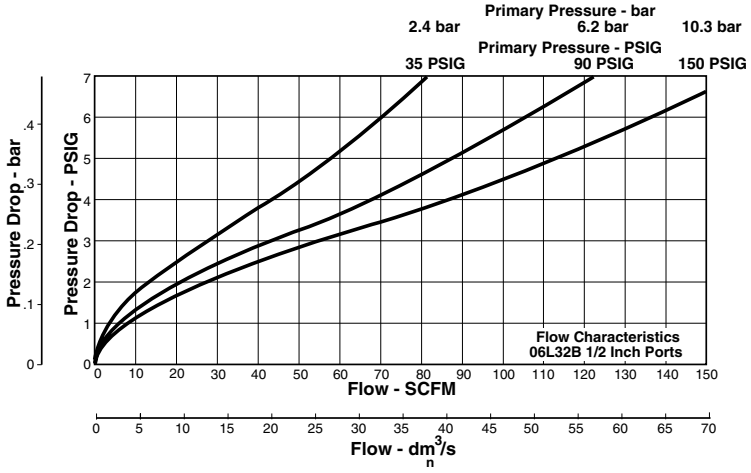

06L Mist Lubricator Kits & Accessories

Adjustment Knob P04121
Bowl Guard Kit PS705P
Bowl Kits –
Poly Bowl – No Drain PS746P
Twist Drain PS717P
Pressure Fill PS719P
Remote Fill PS728P
Metal Bowl – Sight Gauge / Twist Drain PS729P
Sight Gauge / Pressure Fill PS720P
Drain Kit – Twist Drain PS512P
Fill Cap Kit PS741P
Lubricator Service Kit PS718P
Mounting Bracket Kit PS743P
Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005
Pressure Fill Adapter Kit PS716P
Pressure Fill Button P11912
Remote Auto-Fill Device PS505CP
Sight Dome / Fill Cap Kit PS738P
Sight Dome Kit PS740P
Nylon Sight Dome Kit PS740N
Sight Gauge Kit PS714P

Specifications

Bowl Capacity ..... 2.90 Ounces
Minimum Flow for Lubrication ..... .5 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 SUS 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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Richland, Michigan
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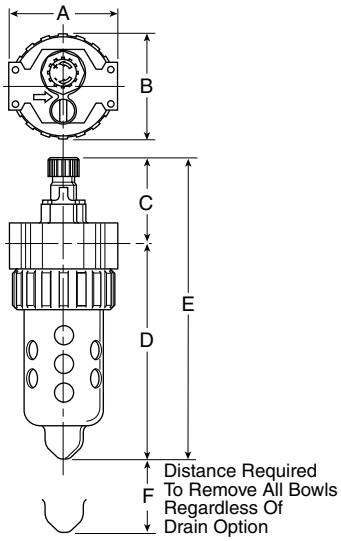
07L Mist Lubricators – Standard

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.
- Bowl can be filled while air line is under pressure.
- Transparent sight dome for 360° visibility.
- High Flow: 3/8" – 60 SCFM §
  1/2" – 90 SCFM §
  3/4" – 90 SCFM §



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Port Size	NPT		BSPP	
	Twist Drain	No Drain	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard				
3/8"	—	**07L22BE**	—	07L22BE1
1/2"	—	**07L32BE**	—	07L32BE1
3/4"	—	**07L42BE**	—	07L42BE1
Metal Bowl / Sight Gauge				
3/8"	**07L24BE**	—	07L24BE1	—
1/2"	**07L34BE**	—	07L34BE1	—
3/4"	**07L44BE**	—	07L44BE1	—

Standard part numbers shown, for other models refer to ordering information below.

‡ For polycarbonate bowl see caution in Product Selection Chart page 2.

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

07L Lubricator Dimensions		
A 3.24 (82)	**B** 3.25 (83)	**C** 2.41 (61)
D 6.86 (174)	**D** † 6.95 (177)	**E** 9.27 (235)
E † 9.19 (233)	**F** 2.75 (70)	

Inches (mm)

† With Twist Drain

Ordering Information

07L	2	2	B	E	—

Port Size

- **2. 3/8 Inch**
- **3. 1/2 Inch**
- **4. 3/4 Inch**

Bowl Options

Polycarbonate Bowl
1. No Drain
2. **Metal Bowl Guard / No Drain**
5. Pressure Fill
6. Metal Bowl Guard / Pressure Fill
A. Liquid Level Sensor
B. Metal Bowl Guard / Liquid Level Sensor
J. Auto Fill Device
K. Metal Bowl Guard / Auto Fill Device
R. Twist Drain
N. Metal Bowl Guard / Twist Drain

Metal Bowl
4. **Sight Gauge / Twist Drain**
8. Sight Gauge / Pressure Fill
D. Sight Gauge / Liquid Level Sensor
M. Sight Gauge / Auto Fill Device

Options

- **B. With Fill Plug**
- C. With Fill Plug/Nylon Sight Dome
- F. With Body Pressure Fill
- G. With Body Pressure Fill/ Nylon Sight Dome

Engineering Level

- **E. Current**

Port Type

- **Blank. NPT**
- 1. BSPP
- 2. BSPT

NOTE: BOLD OPTIONS ARE STANDARD.

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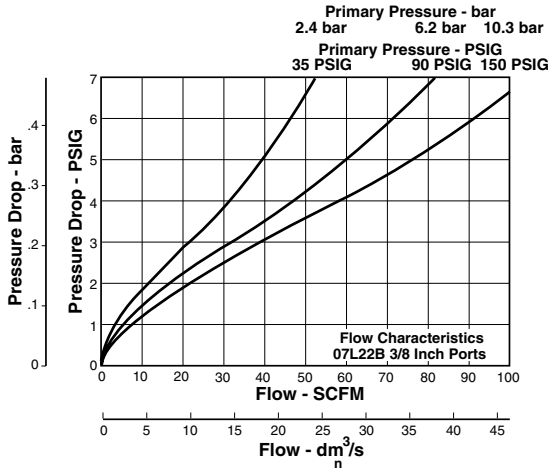
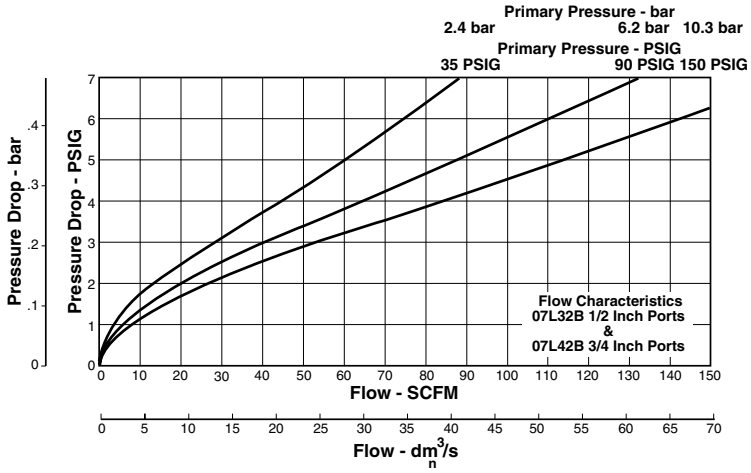
Technical Information





07L Mist Lubricator Kits & Accessories

Adjustment Knob P04121
Bowl Guard Kit PS805P
Bowl Kits –
Poly Bowl – No Drain PS846P
Twist Drain PS817P
Pressure Fill PS819P
Remote Fill PS828P
Metal Bowl – Sight Gauge / Twist Drain PS829P
Sight Gauge / Pressure Fill PS820P
Drain Kit – Twist Drain PS512P
Fill Cap Kit PS741P
Lubricator Service Kit PS718P
Mounting Bracket Kit PS843P
Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005
Pressure Fill Adapter Kit PS716P
Pressure Fill Button P11912
Remote Auto-Fill Device PS505CP
Sight Dome / Fill Cap Kit PS738P
Sight Dome Kit PS740P
Nylon Sight Dome Kit PS740N
Sight Gauge Kit PS814P

Specifications

Bowl Capacity ..... 6.0 Ounces
Minimum Flow for Lubrication ..... .5 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 SUS 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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Richland, Michigan
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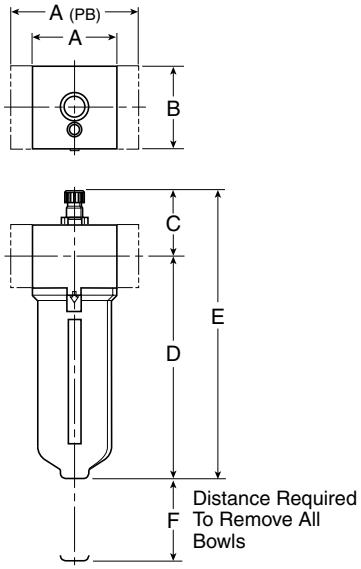
P3NL Mist Lubricators – Hi-Flow

Features

- Port blocks (PB) available to provide 1-1/2" 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 §
  1-1/2" – 260 SCFM §



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Port Size	NPT	BSPP
	No Drain	No Drain
Metal Bowl / Sight Gauge		
3/4"	**P3NLA96LSN**	P3NLA16LSN
1"	**P3NLA98LSN**	P3NLA18LSN
1-1/2" #	**P3NLA9PLSN**	P3NLA1PLSN

Standard part numbers shown, for other models refer to ordering information below
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)	**A** (PB) 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
1. G Thread (BSPP) Female
2. Rc Thread (BSPT) Female
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)

Type
Oil Mist
L. w/ Polycarbonate Sight Dome
A. w/ Nylon Sight Dome

Bowl
S. Metal Bowl w/ Sight Gauge

Drain / Fill Device
A. Auto Fill / Fill Plug
N. No Drain, Solid Bowl / Fill Plug
M. Twist Drain / Fill Plug
H. No Drain / Body Pressure Fill
J. Twist Drain / Body Pressure Fill

NOTE: BOLD OPTIONS ARE STANDARD.

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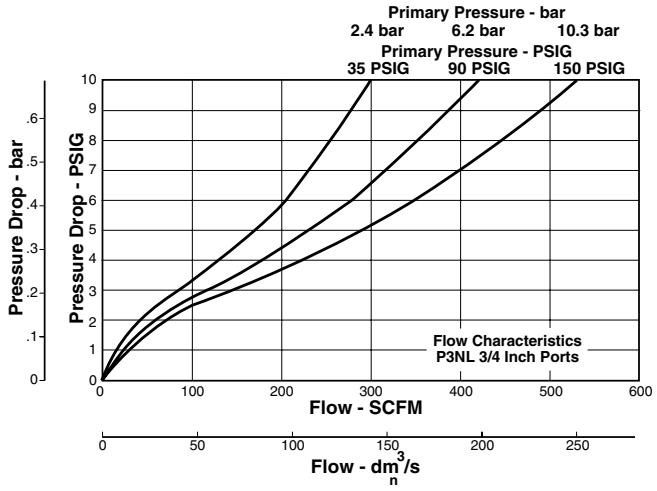
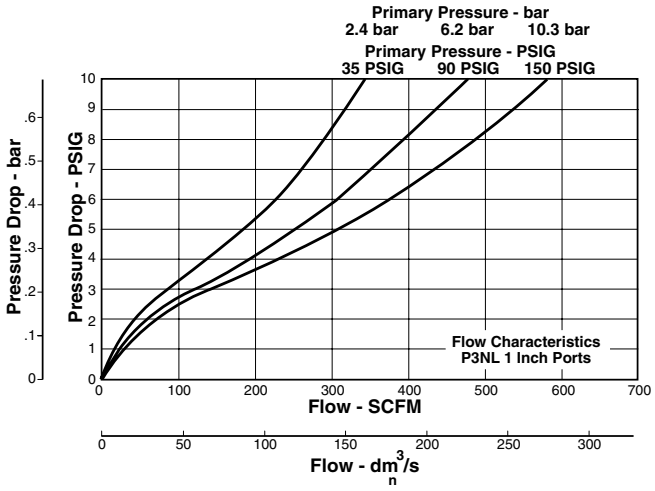
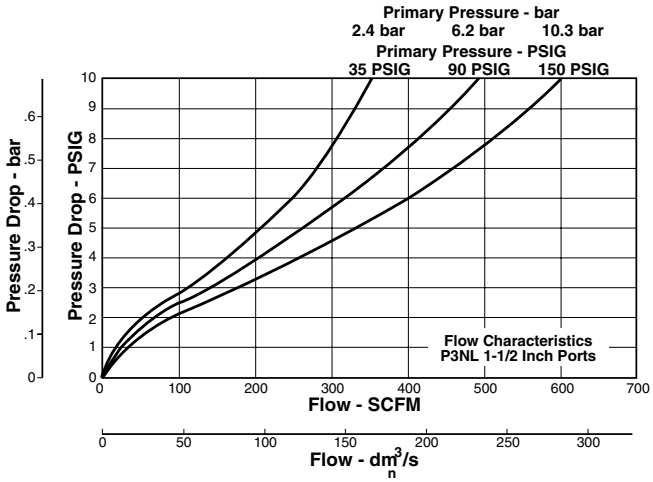
Technical Information







P3NL Lubricator Kits & Accessories

Adjustment Knob P04121

Bowl Kits –
Metal Bowl – Sight Gauge / Twist Drain P3NKA00BSM

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. F442002
12 Quart Case F442003
4 Gallon Case F442005

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

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.

PL606 Mist Lubricators – Hi-Flow

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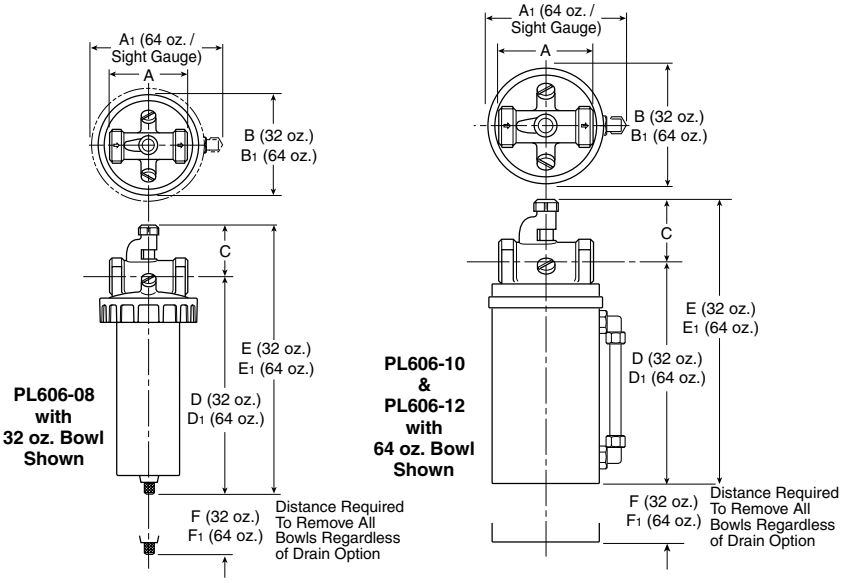

PL606-08 Lubricator Dimensions										
A	**A_1**	**B**	**B_1**	**C**	**D**	**D_1**	**E**	**E_1**	**F**	**F_1**
4.06 (103)	6.25 (158)	4.97 (126)	5.28 (134)	2.63 (67)	10.75 (273)	10.00 (250)	13.38 (340)	12.63 (321)	7.75 (196)	6.50 (165)
PL606-10 & PF606-12 Lubricator Dimensions										
A	**A_1**	**B**	**B_1**	**C**	**D**	**D_1**	**E**	**E_1**	**F**	**F_1**
4.81 (122)	6.25 (158)	4.97 (126)	5.28 (134)	2.84 (73)	11.13 (283)	10.44 (265)	13.94 (355)	13.28 (337)	7.75 (196)	6.50 (165)

Inches (mm)

Features

- Proportional oil delivery over a wide range of air flows.
- Bowl can be filled while under pressure.
- Large bowls for oil capacity, 32 oz. and 64 oz..
- High Flow: 1" – 350 SCFM §
  1-1/4" – 475 SCFM §
  1-1/2" – 525 SCFM §

Port Size	NPT	BSPP
1"	**PL606-08E**	PL606G08E
1-1/4"	**PL606-10E**	PL606G10E
1-1/2"	**PL606-12E**	PL606G12E

Standard part numbers shown, for other models refer to ordering information below.
§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

Ordering Information

PL606	**-**	**08**	**E**

Port Type
- **- . NPT**
- G. BSPP

Port Size
- **08. 1"**
- **10. 1-1/4"**
- **12. 1-1/2"**

Bowl
- **E. 32 oz. Metal Bowl with Drain**
- **G. 64 oz. Metal Bowl with Sight Gauge**

NOTE: BOLD OPTIONS ARE STANDARD.

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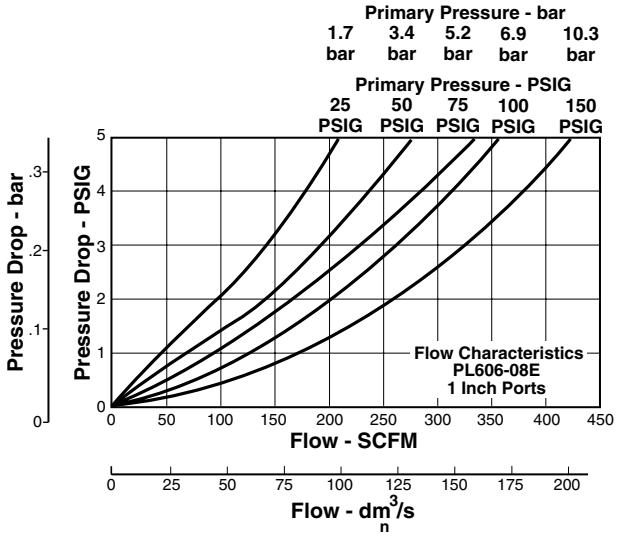
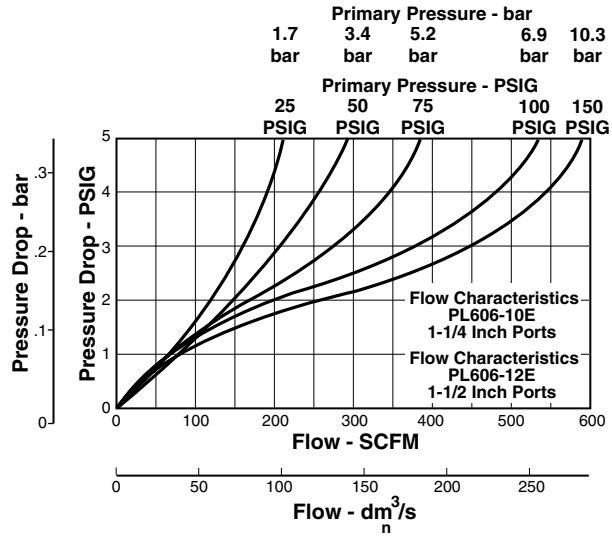




PL606 Filter Kits & Accessories

Bowls –
32 oz. PBK603B
64 oz. PBK606X30B
Button Head Fill Adaptor SAA606C109-1
Mounting Bracket Kit – 1 Inch Ported Body only SA200CW57
Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005
Repair Kit – Needle Valve Assembly PRK606Y
Sight Gauge for 64 oz. Bowl PRKB606X30B

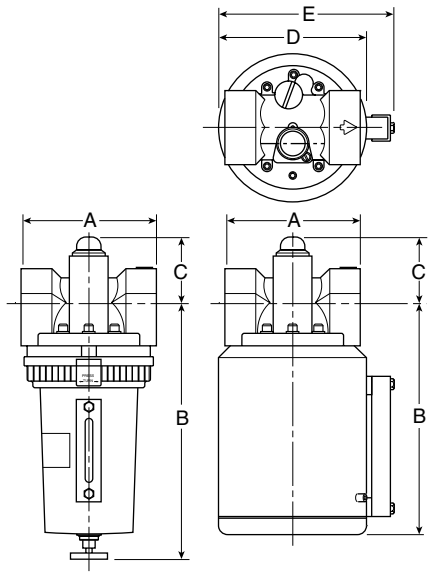
Specifications

Body ..... Zinc
Bowl ..... Aluminum
Bowl Capacity – "E" ..... 32 Ounces
"G" ..... 64 Ounces
Drain ..... Brass
Pressure & Temperature Rating –
"E" 32 oz.Bowl – 0 to 300 PSIG (0 to 20.7 bar)
32°F to 180°F (0°C to 82°C)
"G" 64 oz. Bowl – 0 to 150 PSIG (0 to 10.3 bar)
32°F to 120°F (0°C to 49°C)
Seals ..... Nitrile
Sight Dome ..... Polyurethane / Brass
Sight Gauge ..... PVC
Suggested Lubricant ..... F442 Oil
Weight –1 Inch - 32 oz. ..... 5.5 lbs. (2.5 kg)
1-1/4, 1-1/2 Inch - 32 oz. ..... 8.3 lbs. (3.8 kg)
1 Inch - 64 oz. ..... 7.2 lbs. (3.3 kg)
1-1/4, 1-1/2 Inch - 64 oz. ..... 10 lbs. (4.5 kg)

09L Mist Lubricators – Hi-Flow

Features

- Metal bowl with sight gauge and manual drain – standard.
- Transparent sight dome for 360° visibility.
- Bowl can be filled while air line is under pressure.
- Proportional oil delivery over a wide range of air flows.
- High Flow: 1000 – SCFM§



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Port Size	NPT
Metal Bowl / Sight Gauge – 1 Quart	
2"	**09L84BA**
Metal Bowl / Sight Gauge – 3 Quart	
2"	**09L8PBA**

Standard part numbers shown, for other models refer to ordering information below.

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

09L Lubricator Dimensions					
	A	**B**	**C**	**D**	**E**
1 Qt.	5.50 (140)	10.40 (264)	2.64 (67)	—	—
	A	**B**	**C**	**D**	**E**
3 Qt.	5.50 (140)	9.44 (240)	2.64 (67)	6.00 (152)	7.12 (181)

Inches (mm)

Ordering Information

09L	8	4	B	A	—

Port Size
8. 2 Inch

Bowl Options
Metal Bowl
4. 1 Quart Sight Gauge / Manual Drain
P. 3 Quart Sight Gauge / Manual Drain

Options
B. Without Tamperproof Cap

Engineering Level
A. Current

Port Type
Blank. NPT

NOTE: BOLD OPTIONS ARE STANDARD.

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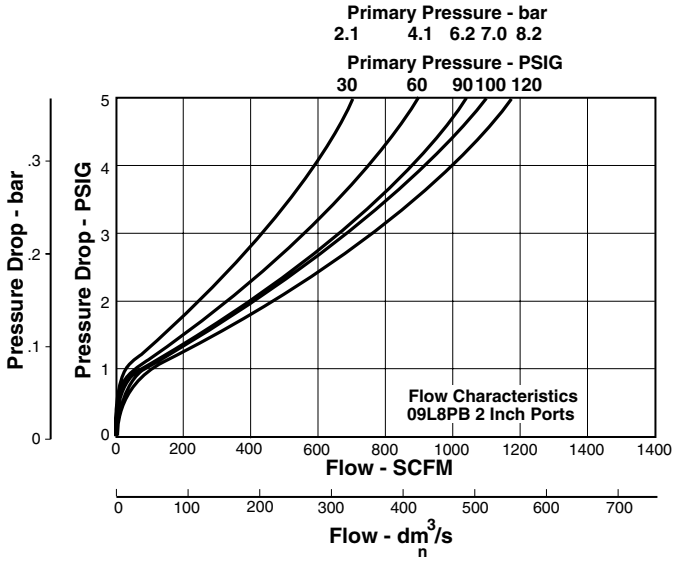

09L Lubricator Kits & Accessories

Metal Bowl – Sight Gauge / Twist Drain PS612P*
Fill Cap Kit PS610P
Lubricator Service Kit PS607P
Oil – 1 Gal. F442002
12 Quart Case F442003
4 Gallon Case F442005
Sight Dome Kit PS613P

* 1 Quart Bowl

Specifications

Bowl Capacity ..... 1 Qt. (Standard)
3 Qt. (Optional)
Bowl ..... Metal with Sight Gauge
Drain ..... Manual Twist Drain
Port Threads ..... 2 Inch
Pressure & Temperature Rating .... 0 to 150 PSIG (0 to 10.3 bar)
32°F to 150°F (0°C to 66°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 Qt ..... 10.2 lb. (4.6 kg)
3 Qt ..... 13.7 lb. (6.2 kg)

Materials of Construction

Body ..... Zinc Alloy, Die Cast

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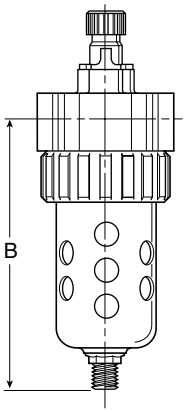
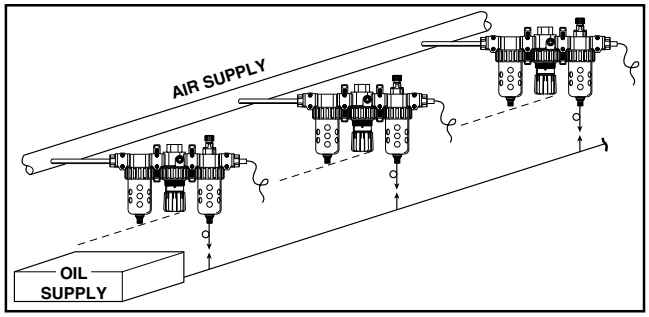
Remote Auto-Fill Device

Features

- Wide operating range (oil supply to inlet may be 30 to 270 PSIG; air operating pressure depends on bowl used).
- Rugged polyurethane float design.
- Complete field conversion kit.
- Adaptable on polycarbonate and metal bowls already in service.
- Oil supply strainer standard.
- Fits 06L / 16L and 07L / 17L Series.



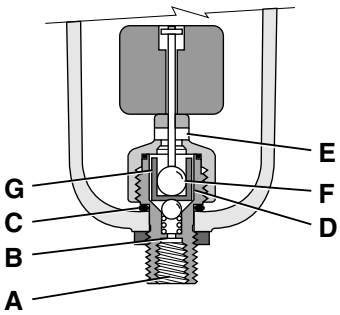


Dimensions

Model	Kit Number	B
06L-16L	PS505CP	5.36 (136)
07L-17L	PS505CP	6.71 (170)

Inches (mm)

Operation



Oil enters the unit at the pipe thread fitting **(A)** with a supply pressure that is a minimum of 20 PSIG above the lubricator air pressure. With the float lowered, oil flows through metering orifice **(B)** and lifts the check ball **(C)**. Oil continues to flow past the shuttle chamber annulus **(D)** and out the cross drilled hole **(E)**. As the oil level rises, it cause the float to rise to its maximum level in the bowl. During this period the shut-off ball **(F)** remains in chamber **(G)**, out of the flow stream. Near the end of the filling period, shut-off ball **(F)** will enter the flow stream and snap shut against the seat in chamber **(G)**.

The stem assembly will thus block any additional oil passage as long as the oil supply pressure is maintained at **(A)**. When the supply pressure at **(A)** is released, ball **(C)** is held up against the shuttle **(D)** by a spring causing a slight delay in reverse flow shut-off. This permits the higher still present supply pressure in chamber **(G)** to dissipate and bowl pressure to take over. The shuttle then moves down forcing ball **(C)** to close orifice **(B)**. The orifice will remain closed as long as there is air pressure in the bowl.

This delay of reverse flow in chamber **(G)** is necessary to allow shut-off ball **(F)** to fall when the oil level decreases and permit oil to enter the bowl for the next refill. Thus, for the unit to operate properly, it is necessary that the oil supply pressure go to zero after each fill.

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 1035 kPa)
32°F to 125°F (0°C to 52°C)
Metal Bowl / Sight Gauge – 0 to 250 PSIG (0 to 1725 kPa)
32°F to 175°F (0°C to 80°C)

Oil inlet pressure must be at least 20 PSIG above system air pressure and may be up to 300 PSIG.

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.)

Flexible tubing is recommended for oil supply line connection to remote fill inlet. Rigid piping should be avoided to prevent possible damage due to stresses on the lubricator bowl assembly.

Oil supply line should be pressurized for 2 to 15 minutes one or more times per day. Pressurization frequently should be based on maintaining oil in lubricator at its highest level.

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

Materials of Construction

Body, Cap, Stem & Mounting Nut ..... Aluminum
Float ..... Polyurethane
Seals ..... Nitrile
Spring ..... Stainless

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Close Nippled Combinations – 14 Miniature Series

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

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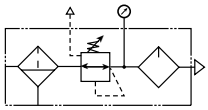
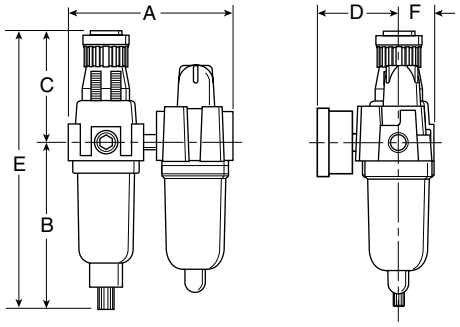
Two-Unit Combo





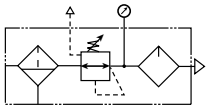
Series	Port	Model Numbers
14G	1/4"	**14G11B13F0GB**

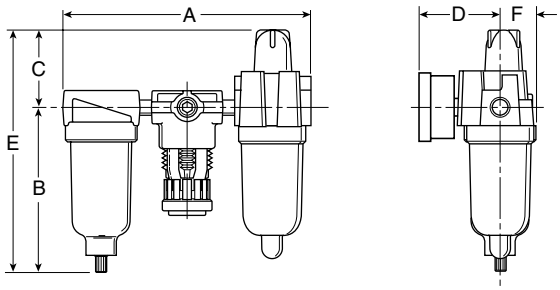
For other models, refer to ordering information on next page.

A	B	C	D	E	F
3.58 (91)	3.79 (96)	2.42 (61)	2.07 (53)	6.21 (158)	.48 (12)

Inches (mm)
• All dimensions nominal.

Three-Unit Combo





Series	Port	Model Numbers
14A	1/4"	**14A11B13F0GD**

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

A	B	C	D	E	F
5.77 (147)	3.82 (97)	1.64 (42)	2.07 (53)	5.46 (139)	.48 (12)

Inches (mm)
• All dimensions nominal.

Close Nippled Combinations – 14 Miniature Series

Ordering Information

14A	1	1	B	13	F	0	G	D

Series
- **14A. 3-Unit**
- **14G. 2-Unit**

Port Size
- **1. 1/4"**

Filter Bowl Options

Poly Bowl
- **1. Twist Drain**
- **5. Automatic Pulse Drain**

Metal Bowl
- **3. Twist Drain**
- **7. Automatic Pulse Drain**

Filter Element
- A. 40 Micron
- **B. 5 Micron**

Regulator Pressure

Without Gauge
- **10. 30 PSIG**
- **11. 60 PSIG**
- **12. 15 PSIG**
- **13. 125 PSIG**

With Gauge
- **15. 30 PSIG**
- **16. 60 PSIG**
- **17. 15 PSIG**
- **18. 125 PSIG**

Relief
- **F. Relieving**
- G. Non-Relieving

Lubricator Bowl Options

Poly Bowl
- **0. No Drain**
- 1. Twist Drain

Metal Bowl
- **3. Twist Drain**

Lubricator Body Options
- **G. No Fill Plug**
- B. With Fill Plug

Engineering Level
- **B. 14G Current**
- **D. 14A Current**

NOTE: BOLD OPTIONS ARE STANDARD.

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.

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

Mounting Bracket Kit PS417BP
(Includes Panel Mount Nut)

Modular Combinations – P3A Miniature Series

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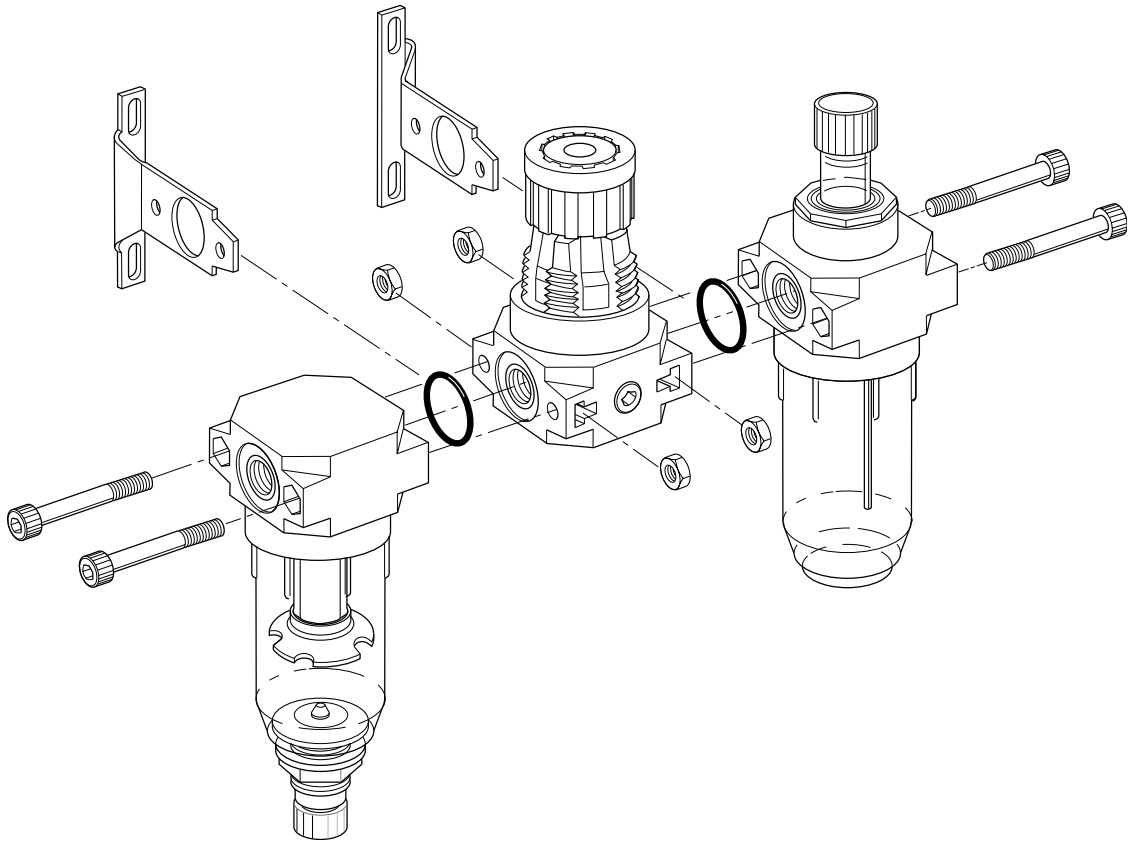
- Attractive.
- Versatile.
- Semi-modular design.
- 1/8" & 1/4" pipe sizes available.
- 5 micron filter as standard.
- Light-weight corrosion resistant plastic body.
- Durable piston or diaphragm design regulator.
- Fingertip lubricator adjustment.
- Can be assembled using either standard pipe nipples or semi-modular assembly hardware.



To Assemble and/or Wall Mount a . . .				Use for Std. Mounting	Or	Use for Wall Mounting
Filter	Regulator	Filter/Regulator	Lubricator	(Qty) Std. Kit		(Qty) Kit & Wall Mount
X						(1) P3A-KA00CFN†
	X					(1) PS417BP†
		X				(1) P3A-KA00MRN†
			X			(1) P3A-KA00CFN†
X	X			(1) P3A-KA00CDN*		(1) P3A-KA00CFN**
X			X	(1) P3A-KA00CEN*		(1) P3A-KA00CGN**
	X		X	(1) P3A-KA00CDN*		(1) P3A-KA00CFN**
		X	X	(1) P3A-KA00CDN*		(1) P3A-KA00CFN**
X	X		X	(2) P3A-KA00CDN*		(2) P3A-KA00CFN**

* Includes hardware to assemble semi-modular units to one another.
** Includes hardware to assemble semi-modular units to one another and one wall bracket.
† Includes wall bracket and assembly hardware for single unit.

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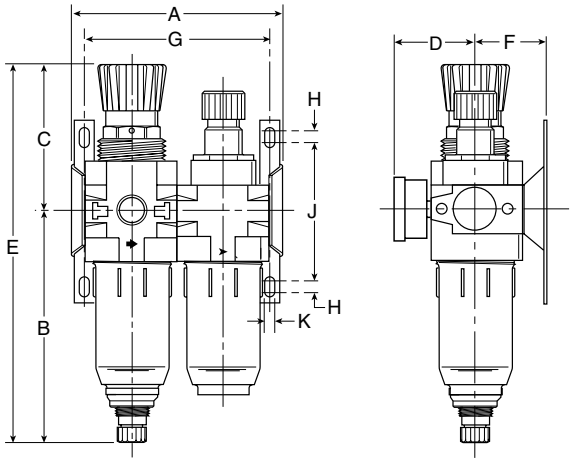
Modular Combinations – P3A Miniature Series

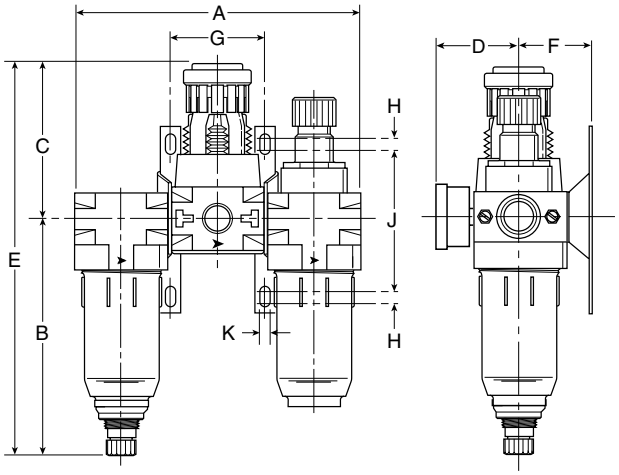
Two-Unit Combo



Model	Port Size	A	B	"B" with Auto Drain	C	D	E	F	G	H	J	K
P3A Series	1/8", 1/4"	3.78 (96)	3.98 (101)	3.72 (95)	2.52 (64)	2.06 (52)	6.50 (165)	1.22 (31)	1.57 (40)	.20 (5)	1.97 (50)	.20 (5)

Inches (mm)

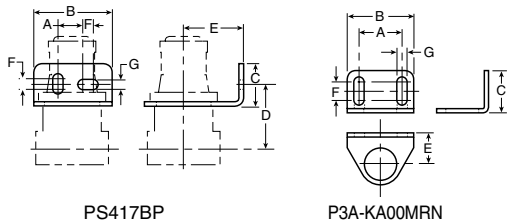
Three-Unit Combo



Model	Port Size	A	B	"B" with Auto Drain	C	D	E	F	G	H	J	K
P3A Series	1/8", 1/4"	4.84 (123)	3.98 (101)	3.72 (95)	2.46 (63)	2.06 (52)	6.44 (164)	1.22 (31)	1.63 (42)	.20 (5)	1.97 (50)	.20 (5)

Inches (mm)

Wall Mounting Bracket



PS417BP P3A-KA00MRN

KIT	A	B	C	D	E	F	G
PS417BP	0.54 (14)	1.80 (46)	1.00 (25)	1.50 (38)	1.35 (34)	0.28 (7)	0.22 (6)
P3A-KA00MRN	1.57 (40)	2.05 (52)	0.98 (25)	1.81 (46)	1.23 (31)	0.47 (12)	0.21 (5)

Inches (mm)

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Close Nippled Combinations – 05 Economy Series

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

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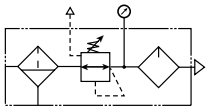
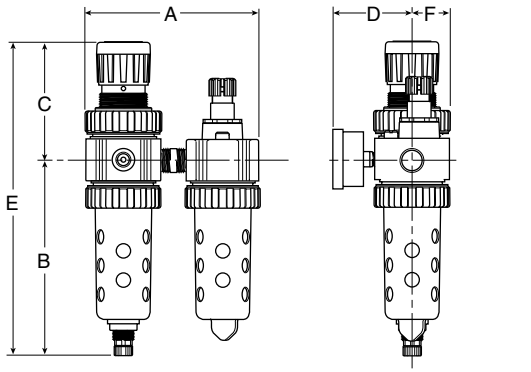
Two-Unit Combo





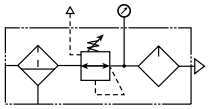
Series	Port	Model Numbers
15G	1/4"	15G12A13A2NE
	3/8"	15G22A13A2NE

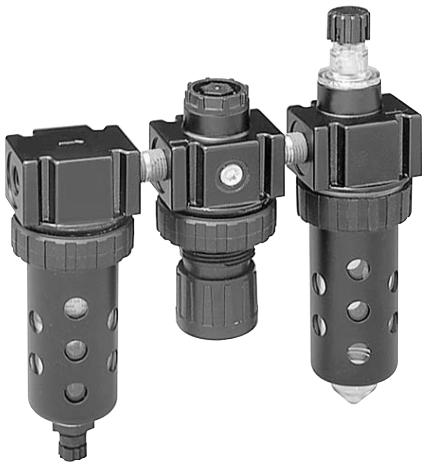
For other models, refer to ordering information on next page.

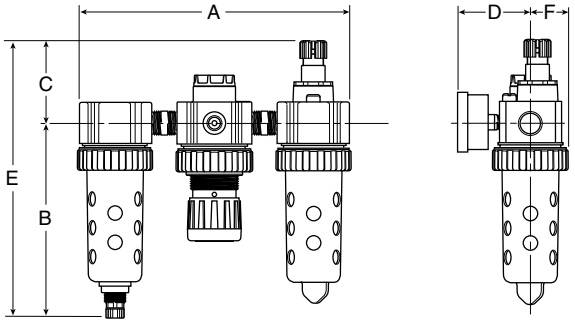
A	B	C	D	E	F
4.49 (114)	5.35 (136)	2.24 (57)	2.05 (52)	8.50 (216)	1.03 (26)

Inches (mm)
- All dimensions nominal.

Three-Unit Combo







Series	Port	Model Numbers
15A	1/4"	15A12A13A2NE
	3/8"	15A22A13A2NE

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

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)
- All dimensions nominal.

Close Nipped Combinations – 05 Economy Series

Ordering Information

15A	1	2	A	13	A	2	N	E

Series
- **15A. 3-Unit**
- **15G. 2-Unit**

Port Size
- **1. 1/4"**
- **2. 3/8"**

Filter Element
- **A. 40 Micron**
- B. 5 Micron

Filter Bowl Options

Poly Bowl
1. Twist Drain
2. **Metal Bowl Guard / Twist Drain**
N. Automatic Pulse Drain
P. **Metal Bowl Guard / Automatic Pulse Drain**
J. Semi-Auto Drain
K. **Metal Bowl Guard / Semi-Auto Drain**

Metal Bowl
3. Twist Drain
4. **Sight Gauge / Twist Drain**
R. Automatic Pulse Drain
T. **Sight Gauge / Automatic Pulse Drain**
L. Semi-Auto Drain
M. **Sight Gauge / Semi-Auto Drain**

Regulator Pressure

Without Gauge
- **10. 30 PSIG**
- **11. 60 PSIG**
- **13. 125 PSIG**
- **14.§ 200 PSIG**

With Gauge *
- **17. 30 PSIG**
- **16. 60 PSIG**
- **18. 125 PSIG**
- **19.§ 200 PSIG**

* Includes 1-1/2" Dial Face Gauge
§ Metal Bowls Only

Relief
- **A. Relieving**
- L. Non-Relieving

Lubricator Body Options
- B. With Fill Plug
- F. With Body Pressure Fill
- **N. No Fill Plug**

Lubricator Bowl Options

Poly Bowl
1. No Drain
2. **Metal Bowl Guard / No Drain**
5. Pressure Fill
6. Metal Bowl Guard / Pressure Fill
A. Liquid Level Sensor
B. Metal Bowl Guard / Liquid Level Sensor
R. Twist Drain
N. Metal Bowl Guard / Twist Drain

Metal Bowl / Sight Gauge
4. **Twist Drain**
8. Pressure Fill
D. Liquid Level Sensor

Engineering Level
- **E. Current**

NOTE: BOLD OPTIONS ARE STANDARD.

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.

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

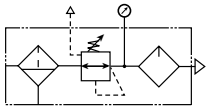
Mounting Bracket Kit PS963P
(Includes Panel Mount Nut)

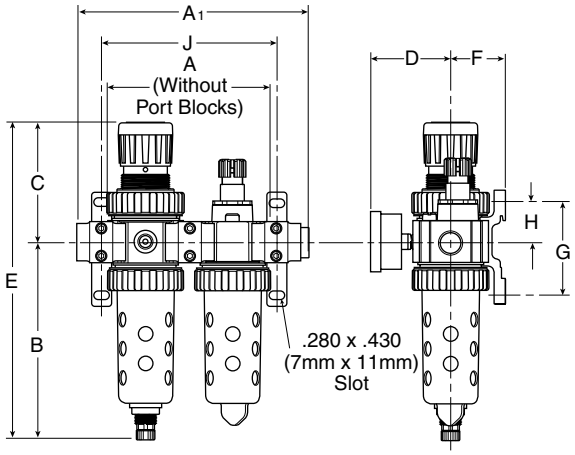
Modular Combinations – 05 Economy Series

- 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.

A Index

Two-Unit Combo





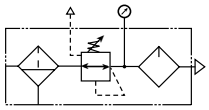
Series	Port	Model Numbers
15H	1/4"	**15H12A13A2NE**
	3/8"	**15H22A13A2NE**

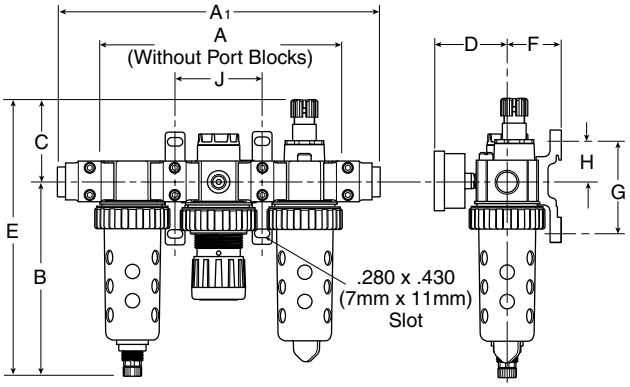
For other models, refer to ordering information on next page.

A	A_1	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"	**15B12A13A2NE**
	3/8"	**15B22A13A2NE**

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

A	A_1	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 (60)				

Inches (mm)
- All dimensions nominal.
- **Mounting brackets not included.**

Modular Combinations – 05 Economy Series

Ordering Information

15B	1	2	A	13	A	2	N	E	—

Series
- **15B. 3-Unit**
- **15H. 2-Unit**

Port Size
- **1. 1/4"**
- **2. 3/8"**

Filter Element
- **A. 40 Micron**
- B. 5 Micron

Filter Bowl Options

Poly Bowl
1. Twist Drain
- **2. Metal Bowl Guard / Twist Drain**
- N. Automatic Pulse Drain
- **P. Metal Bowl Guard / Automatic Pulse Drain**
- J. Semi-Auto Drain
- **K. Metal Bowl Guard / Semi-Auto Drain**

Metal Bowl
3. Twist Drain
- **4. Sight Gauge / Twist Drain**
- R. Automatic Pulse Drain
- **T. Sight Gauge / Automatic Pulse Drain**
- L. Semi-Auto Drain
- **M. Sight Gauge / Semi-Auto Drain**

Regulator Pressure

Without Gauge
- **10. 30 PSIG**
- **11. 60 PSIG**
- **13. 125 PSIG**
- **14.§ 200 PSIG**

With Gauge *
- **17. 30 PSIG**
- **16. 60 PSIG**
- **18. 125 PSIG**
- **19.§ 200 PSIG**

* Includes 1-1/2" Dial Face Gauge

§ Metal Bowls Only

Relief
- **A. Relieving**
- L. Non-Relieving

Lubricator Body Options
- B. With Fill Plug
- F. With Body Pressure Fill
- **N. No Fill Plug**

Lubricator Bowl Options

Poly Bowl
1. No Drain
- **2. Metal Bowl Guard / No Drain**
5. Pressure Fill
6. Metal Bowl Guard / Pressure Fill
- A. Liquid Level Sensor
- B. Metal Bowl Guard / Liquid Level Sensor
- R. Twist Drain
- N. Metal Bowl Guard / Twist Drain

Metal Bowl / Sight Gauge
- **4. Twist Drain**
8. Pressure Fill
- D. Liquid Level Sensor

Engineering Level
- **E. Current**

Modular Options
- **Blank No Port Blocks**
- A. With Mounting Bracket & Port Block
- B. With Mounting Bracket, Lockout & Port Block
- C. With Mounting Bracket & Lockout
- G. With Port Blocks
- J. With Lockout (No Port Blocks)
- K. With Lockout and Port Blocks
- W. With Mounting Bracket

NOTE: BOLD OPTIONS ARE STANDARD.

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.

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

Body Connector Kit PS954P
Lockout Valve PS95601P
Manifold Block PS95701P
3-Way Modular Block PS97501P
Pressure Switches –
DIN Connectors P01909
Flying Leads P01908

Wall Mounting Kit PS955P

Port Block Kits:	**1/8"**	**1/4"**	**3/8"**
NPT	PS95000P	PS95001P	PS95002P
BSPP	PS95010P	PS95011P	PS95012P
BSPT	PS95020P	PS95021P	PS95022P

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatic

Modular Accessories – 05 Economy Series

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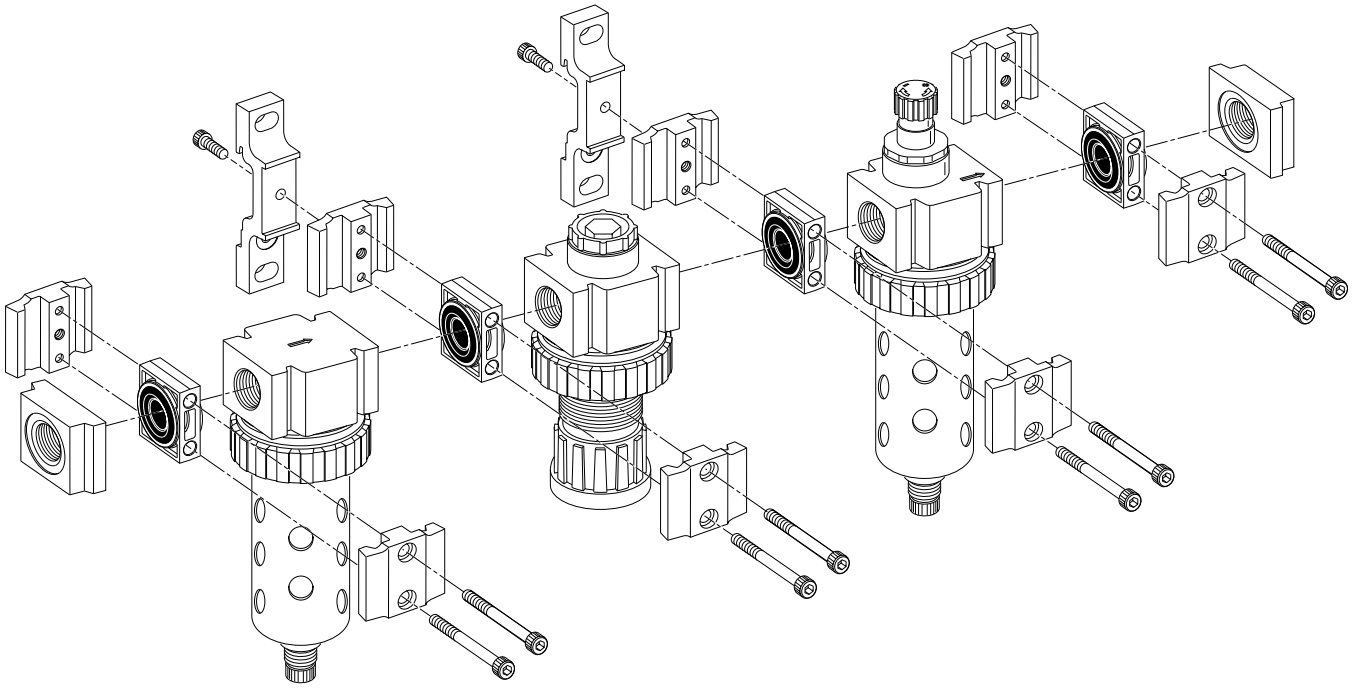
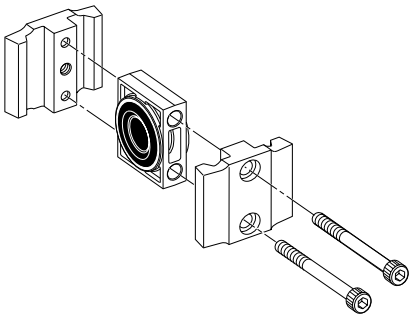


Port Block Connector Kits

	1/8"	1/4"	3/8"
NPT	PS95000P	PS95001P	PS95002P
BSPP	PS95010P	PS95011P	PS95012P
BSPT	PS95020P	PS95021P	PS95022P

Body Connectors

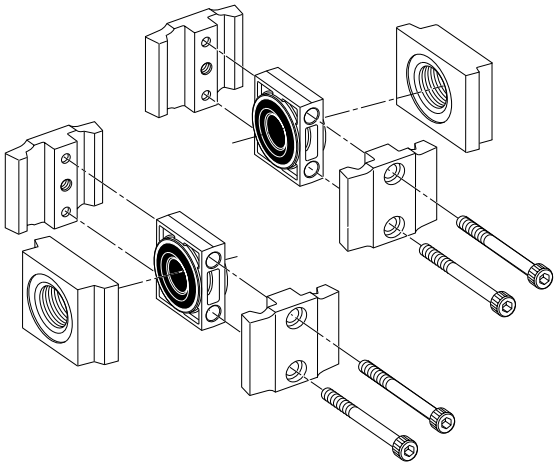
PS954P



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.

Parker Pneumatic

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Pneumatic Division
Richland, Michigan
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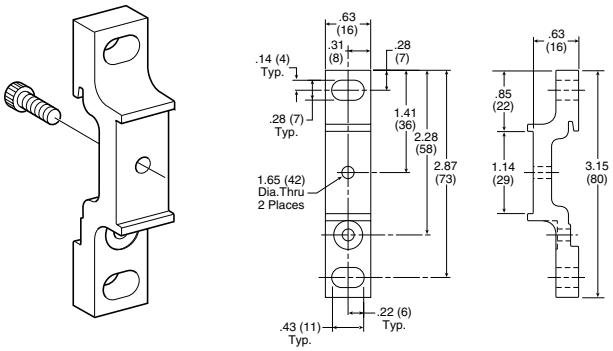
Modular Accessories – 05 Economy Series

Wall Mounting Kits

PS955P



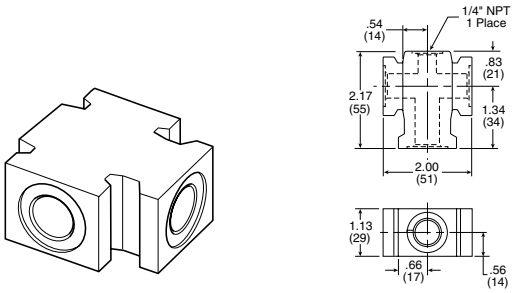
Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set.

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

Kit includes 1 assembly.

3-Way Modular Block

PS97501P

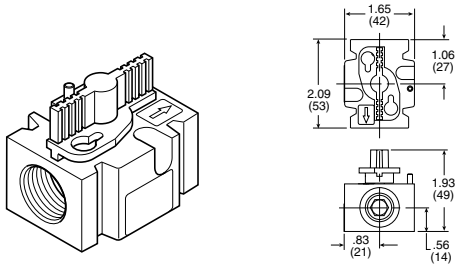


3-Way Modular Block allows for 90° installation for flexibility or for common port regulation

Lockout Valve

PS95601P

1/4" Port



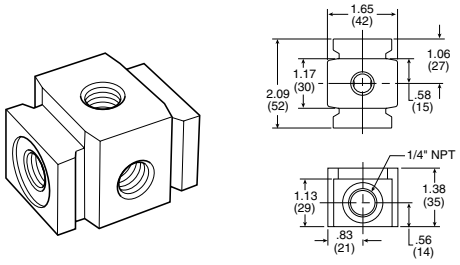
Lockout Valves provide positive shut-off and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start for 06 & 07 series. Accepts #3 padlock.

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.

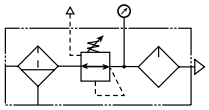
NOTE: Body Connectors are not supplied with Manifold Blocks.

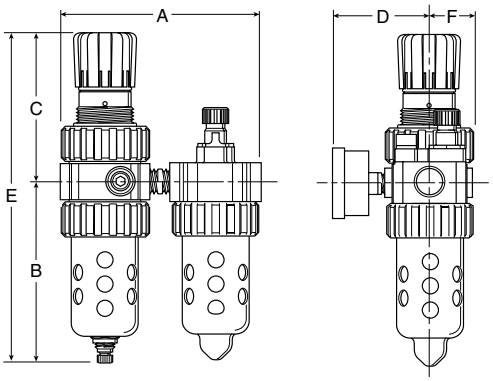
Close Nippled Combinations – 06 Compact & 07 Standard Series

- See individual component pages for details.

A Index

Two-Unit Combo





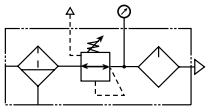
Series	Model Numbers	Port	Model Numbers	Series
06G	06G12A13A2BC	1/4"	16G12A13A2BC	16G
	06G22A13A2BC	3/8"	16G22A13A2BC	
	06G32A13A2BC	1/2"	16G32A13A2BC	
07G	07G22A13A2BD	3/8"	17G22A13A2BD	17G
	07G32A13A2BD	1/2"	17G32A13A2BD	
	07G42A13A2BD	3/4"	17G42A13A2BD	

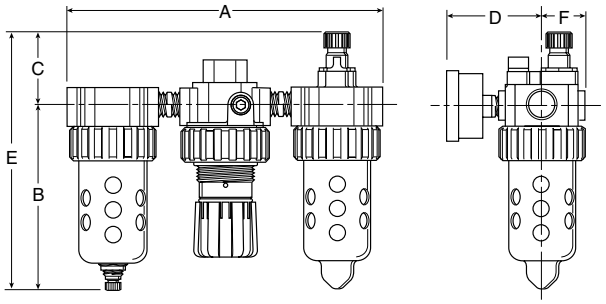
For other models, refer to ordering information on next page.

06G, 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)
07G, 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	Model Numbers	Port	Model Numbers	Series
06A	06A12A13A2BC	1/4"	16A12A13A2BC	16A
	06A22A13A2BC	3/8"	16A22A13A2BC	
	06A32A13A2BC	1/2"	16A32A13A2BC	
07A	07A22A13A2BD	3/8"	17A22A13A2BD	17A
	07A32A13A2BD	1/2"	17A32A13A2BD	
	07A42A13A2BD	3/4"	17A42A13A2BD	

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

06A, 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)
07A, 17A Series					
A	B	C	D	E	F
10.74 (273)	6.97 (177)	2.41 (61)	3.44 (87)	9.38 (238)	1.63 (41)

Inches (mm)
- All dimensions nominal.

Parker Pneumatic

Parker Hannifin Corporation
Pneumatic Division
Richland, Michigan
www.parker.com/pneumatic

Close Nipped Combinations – 06 Compact & 07 Standard Series

Ordering Information

16A	1	2	A	13	A	1	B	C

Series

Micro-Mist
16A. Compact 3-Unit
17A. Standard 3-Unit
16G. Compact 2-Unit
17G. Standard 2-Unit
Mist
06A. Compact 3-Unit
07A. Standard 3-Unit
06G. Compact 2-Unit
07G. Standard 2-Unit

Port Size

1. **1/4"***
2. **3/8"**
3. **1/2"**
4. **3/4"****

* Available on 06/16 Series only.
** Available on 07/17 Series only.

Filter Element

A. 40 Micron
B. 5 Micron

Filter Bowl Options

Poly Bowl
1. Twist Drain
2. Metal Bowl Guard / Twist Drain
5. Automatic Float Drain
6. Metal Bowl Guard / Automatic Float Drain
E. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain
J. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain

Metal Bowl
3. Twist Drain
4. Sight Gauge / Twist Drain
7. Automatic Float Drain
8. Sight Gauge / Automatic Float Drain
G. Push 'N' Drain
H. Sight Gauge / Push 'N' Drain
L. Semi-Auto Drain
M. Sight Gauge / Semi-Auto Drain

Regulator Pressure

Without Gauge
11. 60 PSIG
13. 125 PSIG
15 250 PSIG†

With Gauge
16. 60 PSIG
18. 125 PSIG
21. 250 PSIG†

† If 250 PSIG spring range is used, use metal bowl.

Relief

A. Relieving
L. Non-Relieving

Lubricator Body Options

B. With Fill Plug
F. With Body Pressure Fill

Lubricator Bowl Options

Poly Bowl
1. No Drain
2. Metal Bowl Guard / No Drain
5. Pressure Fill
6. Metal Bowl Guard / Pressure Fill
A. Liquid Level Sensor
B. Metal Bowl Guard / Liquid Level Sensor
J. Auto Fill
K. Metal Bowl Guard / Auto Fill
R. Twist Drain
N. Metal Bowl Guard / Twist Drain

Metal Bowl / Sight Gauge
4. Twist Drain
8. Pressure Fill
D. Liquid Level Sensor
M. Auto Fill

Engineering Level

C. 06/16 Current
D. 07/17 Current

NOTE: BOLD OPTIONS ARE STANDARD.

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.

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

Mounting Bracket Kit (Includes Panel Mount Nut)
06A, 16A , 06G, 16G PS707P
07A, 17A , 07G, 17G PS807P

Modular Combinations – 06 Compact & 07 Standard Series

- See individual component pages for details.

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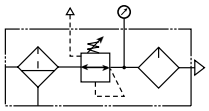
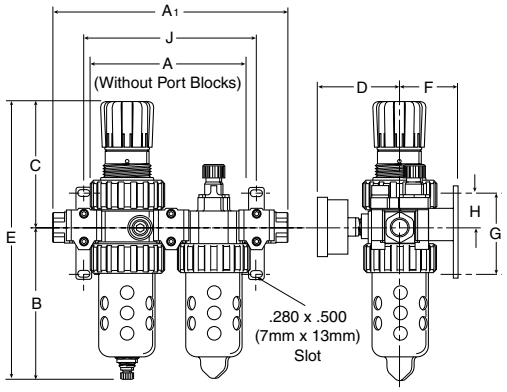
Two-Unit Combo





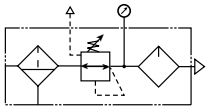
Series	Model Numbers	Port	Model Numbers	Series
06H	06H12A13A2BC	1/4"	16H12A13A2BC	16H
	06H22A13A2BC	3/8"	16H22A13A2BC	
	06H32A13A2BCG	1/2"*	16H32A13A2BCG	
07H	07H22A13A2BD	3/8"	17H22A13A2BD	17H
	07H32A13A2BD	1/2"	17H32A13A2BD	
	07H42A13A2BD	3/4"	17H42A13A2BD	

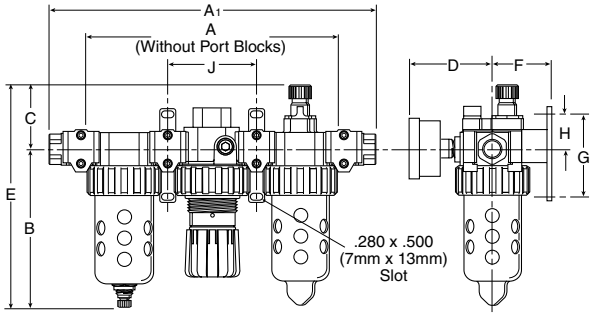
* 06 / 16 available with Port Blocks only.

06H, 16H Series					
A	**A_1**	**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)		
07H, 17H Series					
A	**A_1**	**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	Model Numbers	Port	Model Numbers	Series
06B	06B12A13A2BC	1/4"	16B12A13A2BC	16B
	06B22A13A2BC	3/8"	16B22A13A2BC	
	06B32A13A2BCG	1/2"*	16B32A13A2BCG	
07B	07B22A13A2BD	3/8"	17B22A13A2BD	17B
	07B32A13A2BD	1/2"	17B32A13A2BD	
	07B42A13A2BD	3/4"	17B42A13A2BD	

* 06 / 16 available with Port Blocks only.

06B, 16B Series					
A	**A_1**	**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)		
07B, 17B Series					
A	**A_1**	**B**	**C**	**D**	**E**
10.75 (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.

Modular Combinations – 06 Compact & 07 Standard Series

Ordering Information

16B	1	2	A	13	A	2	B	C	—

Series

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

Mist
- **06B. Compact 3-Unit**
- **07B. Standard 3-Unit**
- **06H. Compact 2-Unit**
- **07H. Standard 2-Unit**

Port Size

- **1. 1/4"***
- **2. 3/8"**
- **3. 1/2"*****
- **4. 3/4"****

* Available on 06/16 Series only.
** Available on 07/17 Series only.
*** 06/16 available with Port Blocks only.

Filter Element

- **A. 40 Micron**
- B. 5 Micron

Regulator Pressure

Without Gauge
- **11. 60 PSIG**
- **13. 125 PSIG**
- **15 250 PSIG†**

With Gauge
- **16. 60 PSIG**
- **18. 125 PSIG**
- **21. 250 PSIG†**

† If 250 PSIG spring range is used, use metal bowl.

Filter Bowl Options

Poly Bowl	Metal Bowl
1. Twist Drain	3. Twist Drain
2. Metal Bowl Guard / Twist Drain	**4. Sight Gauge / Twist Drain**
5. Automatic Float Drain	7. Automatic Float Drain
6. Metal Bowl Guard / Automatic Float Drain	**8. Sight Gauge / Automatic Float Drain**
E. Push 'N' Drain	G. Push 'N' Drain
F. Metal Bowl Guard / Push 'N' Drain	**H. Sight Gauge / Push 'N' Drain**
J. Semi-Auto Drain	L. Semi-Auto Drain
K. Metal Bowl Guard / Semi-Auto Drain	**M. Sight Gauge / Semi-Auto Drain**

Relief

- **A. Relieving**
- L. Non-Relieving

Lubricator Body Options

- **B. With Fill Plug**
- F. With Body Pressure Fill

Lubricator Bowl Options

Poly Bowl
1. No Drain
2. **Metal Bowl Guard / No Drain**
5. Pressure Fill
6. Metal Bowl Guard / Pressure Fill
A. Liquid Level Sensor
B. Metal Bowl Guard / Liquid Level Sensor
J. Auto Fill
K. Metal Bowl Guard / Auto Fill
R. Twist Drain
N. Metal Bowl Guard / Twist Drain

Metal Bowl / Sight Gauge
4. **Twist Drain**
8. Pressure Fill
D. Liquid Level Sensor
M. Auto Fill

Engineering Level

- **C. 06/16 Current**
- **D. 07/17 Current**

Modular Options

- **Blank No Port Blocks**
- A. With Mounting Bracket & Port Block
- B. With Mounting Bracket, Lockout & Port Block
- C. With Mounting Bracket & Lockout
- G. With Port Blocks
- J. With Lockout (No Port Blocks)
- K. With Lockout and Port Blocks
- W. With Mounting Bracket

NOTE: BOLD OPTIONS ARE STANDARD.

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.

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

Body Connector Kit PS754P
Lockout Valve PS756P
Manifold Block PS757P
Pressure Switches –
DIN Connectors P01909
Flying Leads P01908
Wall Mounting Kit PS755P

Port Block Kits: Size		NPT	BSPP	BSPT
06 Series	1/4"	PS750P	PS765P	PS761P
	3/8"	PS751P	PS766P	PS762P
	1/2"	PS752P*	PS767P*	PS799P*
07 Series	1/4"	PS850P	PS865P	PS861P
	3/8"	PS851P	PS866P	PS862P
	1/2"	PS852P	PS867P	PS863P
	3/4"	PS853P	PS860P	PS864P

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

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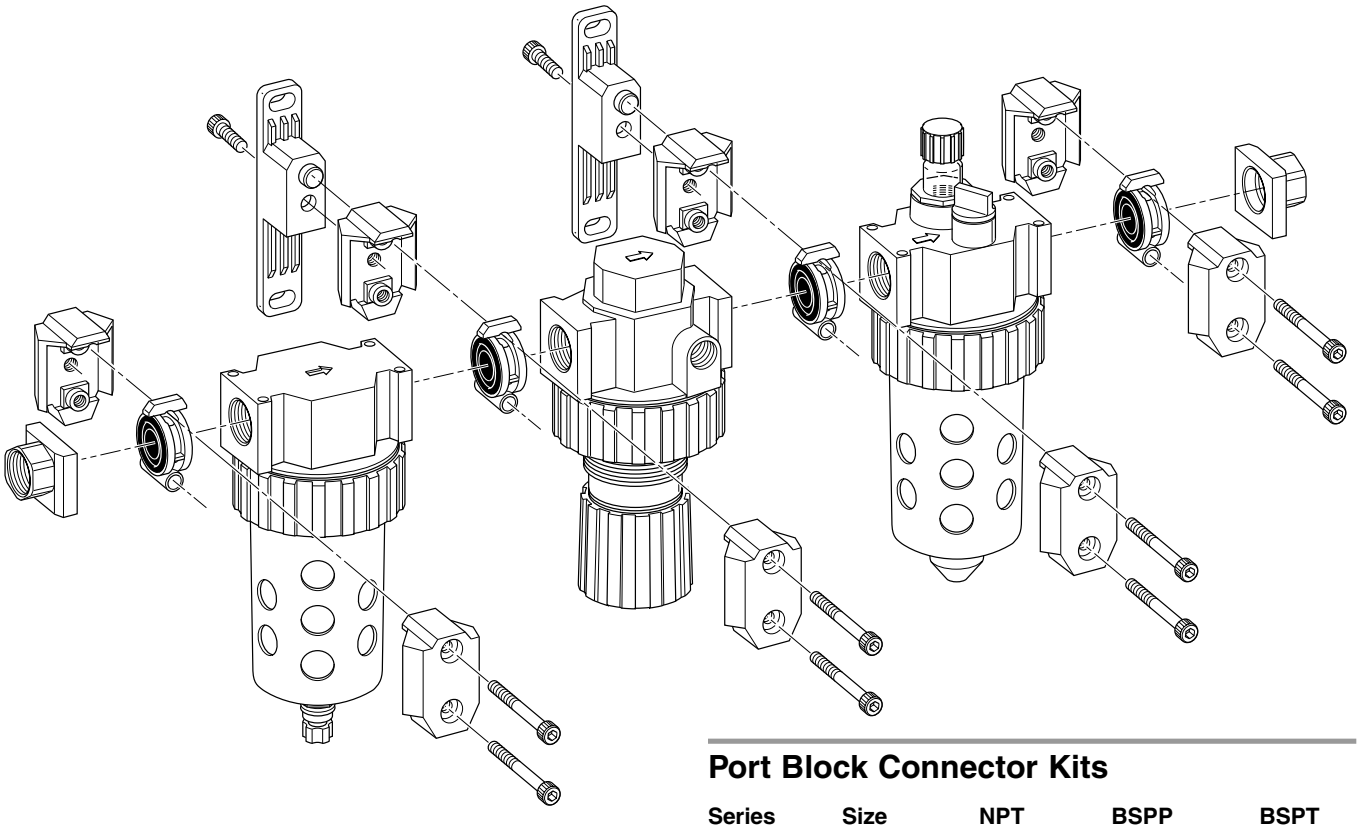
Modular Accessories – 06 Compact & 07 Standard Series

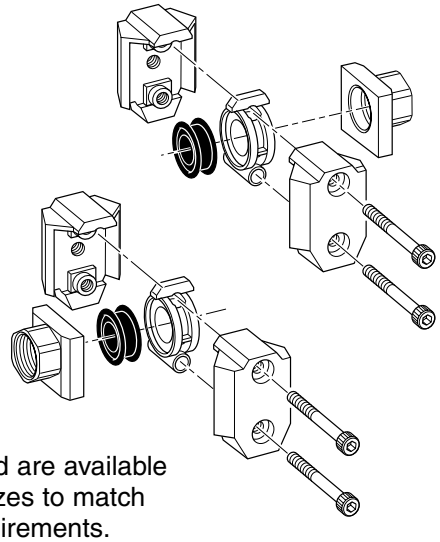
A Index



Port Block Connector Kits

Series	Size	NPT	BSPP	BSPT
06 Series	1/4"	**PS750P**	**PS765P**	**PS761P**
	3/8"	**PS751P**	**PS766P**	**PS762P**
	1/2"	**PS752P***	**PS767P**	**PS799P**
07 Series	1/4"	**PS850P**	**PS865P**	**PS861P**
	3/8"	**PS851P**	**PS866P**	**PS862P**
	1/2"	**PS852P**	**PS867P**	**PS863P**
	3/4"	**PS853P**	**PS860P**	**PS864P**

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



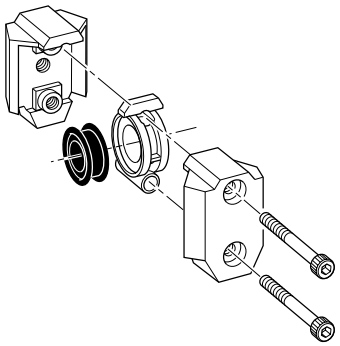
Port Block Connectors allow you to make threaded port connections to Modular units and are available in various port sizes to match your system requirements.

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

Body Connectors

06 Series PS754P

07 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.

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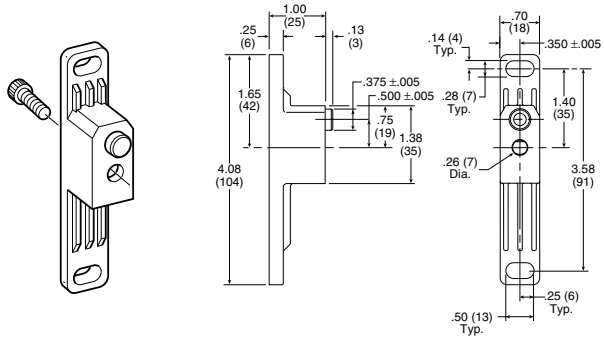
Modular Accessories – 06 Compact & 07 Standard Series

Wall Mounting Kits

06 Series & 07 Series PS755P



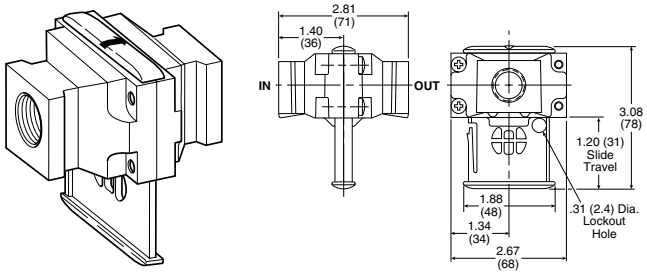
Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set.

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

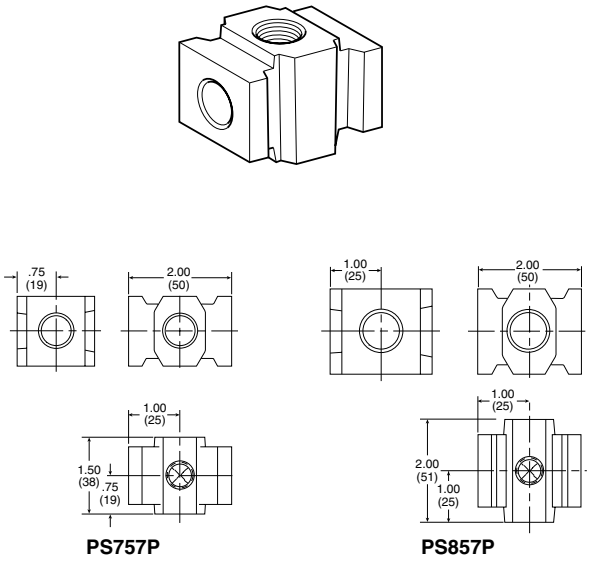


Lockout Valves provide positive shut-off and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start. Accepts #3 padlock.

NOTE: Body Connectors are not supplied with Lockout Valves.

Modular Manifold Block

06 Series .... PS757P 3/8" Port
07 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.

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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.

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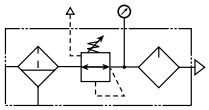
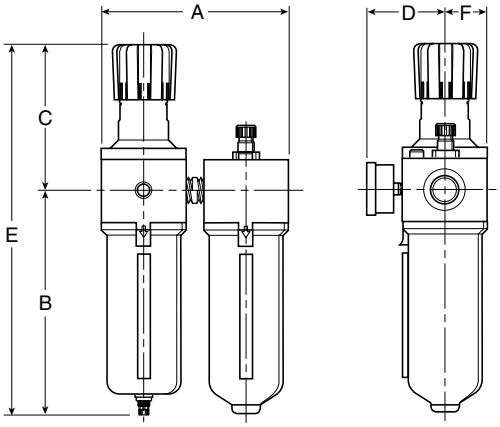
Two-Unit Combo





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

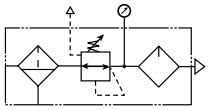
Series	Port	Model Numbers
P3N3A	3/4"	**P3N3A96SGMNNLNA**
	1"	**P3N3A98SGMNNLNA**
	1-1/2" #	**P3N3A9PSGMNNLNA**

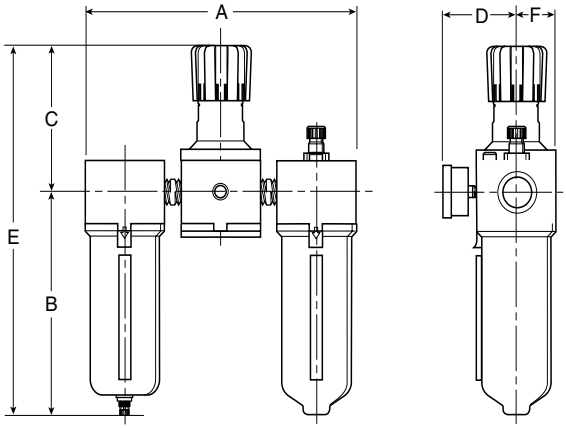
Notes: All Combo part numbers are with regulator knob in up position.
1" Port Body with 1-1/2" Port Block.
For other models, refer to Ordering Information on next page.

A	B	C	D	E	F
7.76 (197)	9.57 (243)	6.38 (162)	3.56 (90)	15.95 (405)	1.81 (50)

Inches (mm)
- All dimensions nominal.
- **Mounting brackets not included (change last character in model number to "B" if required).**
- **Gauges not included (change 12th character to "G" if required).**

Three-Unit Combo





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

Series	Port	Model Numbers
P3N3B	3/4"	**P3N3B96SGMNNLNA**
	1"	**P3N3B98SGMNNLNA**
	1-1/2" #	**P3N3B9PSGMNNLNA**

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.
- **Mounting brackets not included (change last character in model number to "B" if required).**
- **Gauges not included (change 12th character to "G" if required).**

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Close Nippled Combinations – P3N Hi-Flow Series

Ordering Information

P3N	3	A	9	6	S	G	M	N	N	L	N	A
Series	Type	Combination	Port Size	Port Type	Bowl	Filter Elements	Filter Drains	Relief	Regulator Pressure Range & Gauges	Lubricator Type	Lubricator Drain / Fill Devices	Mounting Options

Type
- **3. Combinations w/ Pipe Nipples**

Combination

Metal Bowl
- **A. Hi-Flow 2-Unit**
- **B. Hi-Flow 3-Unit**

Port Size
- **6. 3/4" (w/o Port Blocks)**
- **8. 1" (w/o Port Blocks)**
- **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)**

Port Type
- 1. G Thread (BSPP) Female
- 2. Rc Thread (BSPT) Female
- **9. NPT Female**

Bowl
- **S. Metal Bowl w/ Sight Gauge**

Filter Elements
- E. 5 Micron
- **G. 40 Micron**
- J. 25 Micron, Porous Bronze

Filter Drains
- **M. Twist Drain**
- **A. Automatic Float Drain**
- **P. Push 'N' Drain**
- **S. Semi-Auto Drain**

Relief
- **N. Relieving**
- M. Non-Relieving

Regulator Pressure Range & Gauges

Without Gauge
- **L. 60 PSI (0 to 4 bar)**
- **N. 125 PSI (0 to 8 bar)**
- **H. 250 PSI (0 to 17 bar)**

With Gauge
- **M. 60 PSI (0 to 4 bar)**
- **G. 125 PSI (0 to 8 bar)**
- **J. 250 PSI (0 to 17 bar)**

Lubricator Type

Oil Mist
- **L. w/ Polycarbonate Sight Dome**
- A. w/ Nylon Sight Dome

Lubricator Drain / Fill Devices
- **N. No Drain, Solid Bowl / Fill Plug**
- M. Manual Twist Drain / Fill Plug
- A. Automatic Fill / Fill Plug
- S. Bowl Pressure Fill / Fill Plug
- H. No Drain / Body Pressure Fill
- J. Manual Twist Drain / Body Pressure Fill

Mounting Options
- **A. No Brackets or Kits**
- B. Wall Bracket

NOTE: BOLD OPTIONS ARE STANDARD.

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.

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

Wall Mounting Kit* P3NKA00MW

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

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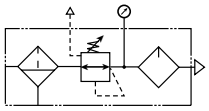
Modular Combinations – P3N Hi-Flow Series

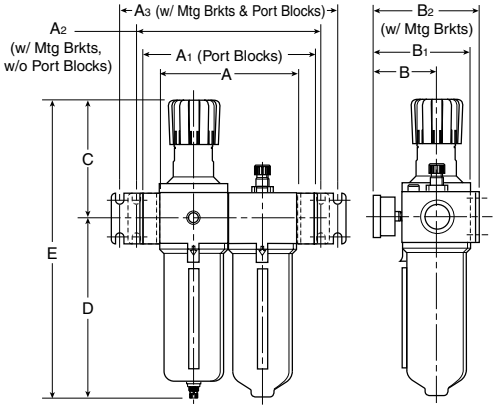
- Regulator can be mounted with knob in up or down position.
- See individual component pages for details.

A Index

Two-Unit Combo



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



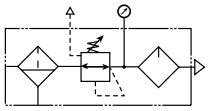
Series	Port	Model Numbers
P3NCA	3/4"	P3NCA96SGMNNLNA
	1"	P3NCA98SGMNNLNA
	1-1/2" #	P3NCA9PSGMNNLNA

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.

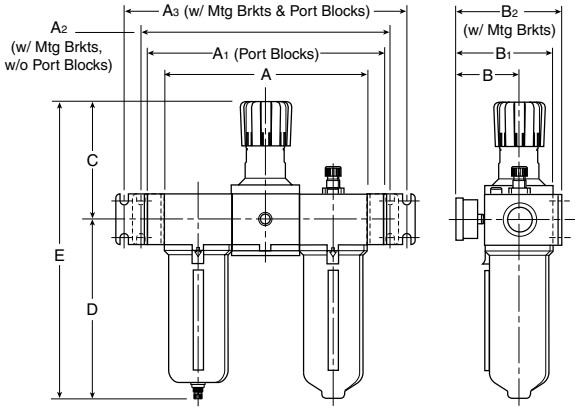
A	A_1	A_2	A_3	B	B_1	B_2
7.24 (184)	9.53 (242)	9.84 (250)	12.13 (308)	3.62 (92)	5.20 (132)	5.74 (146)
C	**D**	**E**				
6.38 (162)	9.57 (243)	15.95 (405)				

Inches (mm)
- All dimensions nominal.
- **Mounting brackets not included (change last character in model number to "B" if required).**
- **Gauges not included (change 12th character to "G" if required).**

Three-Unit Combo



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



Series	Port	Model Numbers
P3NCB	3/4"	P3NCB96SGMNNLNA
	1"	P3NCB98SGMNNLNA
	1-1/2" #	P3NCB9PSGMNNLNA

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	A_1	A_2	A_3	B	B_1	B_2
10.87 (276)	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.
- **Mounting brackets not included (change last character in model number to "B" if required).**
- **Gauges not included (change 12th character to "G" if required).**

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Modular Combinations – P3N Hi-Flow Series

Ordering Information

P3N	C	A	9	6	S	G	M	N	N	L	N	A
Series	Type	Combination	Port Type	Port Size	Bowl	Filter Elements	Filter Drains	Relief	Regulator Pressure Range & Gauges	Lubricator Type	Lubricator Drain / Fill Devices	Mounting Options

Type
- **C. Combination - Modular**

Combination

Metal Bowl
- **A. Hi-Flow 2-Unit**
- **B. Hi-Flow 3-Unit**

Port Type
1. G Thread (BSPP) Female
2. Rc Thread (BSPT) Female
- **9. NPT Female**

Port Size
- **6. 3/4" (w/o Port Blocks)**
- **8. 1" (w/o Port Blocks)**
- **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
- **G. 40 Micron**
- J. 25 Micron, Porous Bronze

Filter Drains
- **M. Twist Drain**
- **A. Automatic Float Drain**
- **P. Push 'N' Drain**
- **S. Semi-Auto Drain**

Relief
- **N. Relieving**
- M. Non-Relieving

Regulator Pressure Range & Gauges

Without Gauge
- **L. 60 PSI (0 to 4 bar)**
- **N. 125 PSI (0 to 8 bar)**
- **H. 250 PSI (0 to 17 bar)**

With Gauge
- **M. 60 PSI (0 to 4 bar)**
- **G. 125 PSI (0 to 8 bar)**
- **J. 250 PSI (0 to 17 bar)**

Lubricator Type

Oil Mist
- **L. w/ Polycarbonate Sight Dome**
- A. w/ Nylon Sight Dome

Lubricator Drain / Fill Devices
- **N. No Drain, Solid Bowl / Fill Plug**
- M. Manual Twist Drain / Fill Plug
- A. Automatic Fill / Fill Plug
- S. Bowl Pressure Fill / Fill Plug
- H. No Drain / Body Pressure Fill
- J. Manual Twist Drain / Body Pressure Fill

Mounting Options
- **A. No Brackets or Kits**
- B. Wall Bracket

NOTE: BOLD OPTIONS ARE STANDARD.

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.

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
BSPP	P3NKB16CL	P3NKB18CL	P3NKB1BCL

Wall Mounting Kit* P3NKA00MW

* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

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Modular Accessories – P3N Hi-Flow Series

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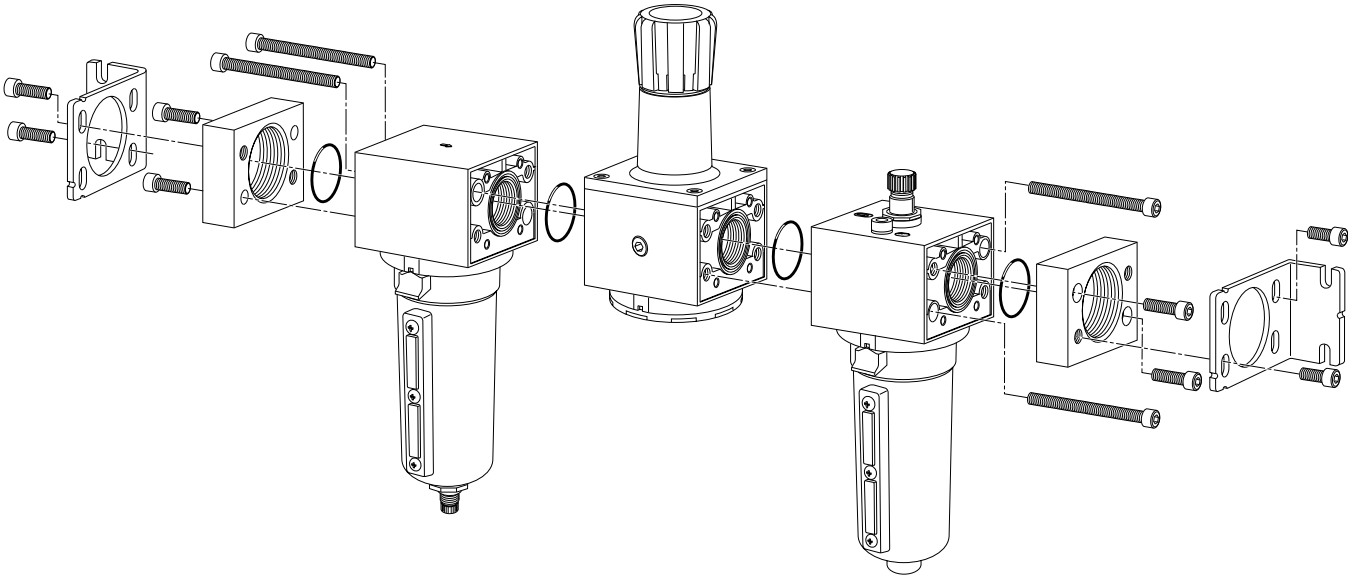
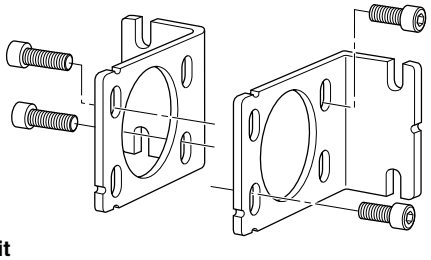


Mounting Brackets

P3NKA00MW



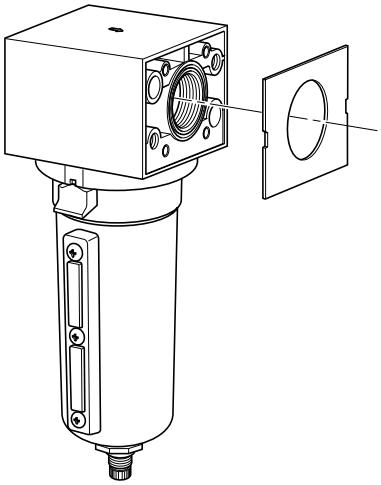
For 1-1/2" BSPP Port Block with E02 fitting application, use **Mounting Bracket Kit P3NKA0BMW**

Replacement Body Covers

P3NKA00PM

Each Kit contains two covers.

All units are shipped with body covers.



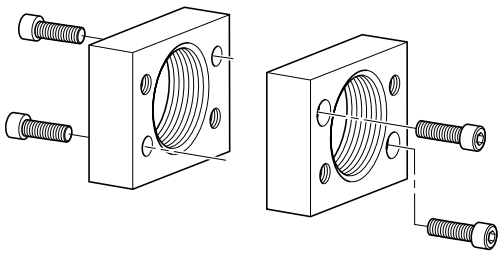
For modular combinations, one side has groove and the mating side is flat. Use the o-ring seal provided in the groove. For some modular combinations, both surfaces may have grooves. In those applications, use o-ring in one groove and square seal provided in the other.

Port Block Kits

	3/4"	1"	1-1/2"
Individual Units:			
NPT	P3NKB96CP	P3NKB98CP	P3NKB9BCP
BSPP	P3NKB16CP	P3NKB18CP	P3NKB1BCP
Modular Combinations:			
NPT	P3NKB96CL	P3NKB98CL	P3NKB9BCL
BSPP	P3NKB16CL	P3NKB18CL	P3NKB1BCL

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.



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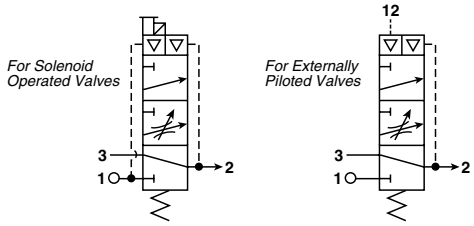
05S Soft Start / Quick Dump Valve

A Index

Features

- Combines Soft Start and Quick Dump Valve in the same body
- Large flow capacities up to 1.6 C_V
- Inline or Modular mounting
- Air Pilot or Solenoid operation
- Soft Start flow easily adjusted



Operation

When the valve is installed into the pneumatic system and no pilot signal is received in port 12 the air is exhausted through port 3. When a pilot signal is received into port 12 the valve shifts closing the connection between ports 2 and 3. At the same time air flow begins between ports 1 and 2 at a slow rate controlled by the throttling control needle, located on the front of the valve. When the down stream pressure reaches approximately 60 PSIG (400 kPa) the main valve spool opens allowing full flow through the valve into your system.

If there is a loss of pilot signal or system pressure at anytime the valve returns to it's initial state venting the down stream pressure through port 3.

The valves pilot signal can either be supplied as a pneumatic pilot directly piped into port 12, on the top of the valve, or through a solenoid pilot mounted on the head. The valve should be mounted downstream of the FRL and with the soft start adjustment needle easily accessible**.**

⚠ **CAUTION:** Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

⚠ **CAUTION:** Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

Ordering Information

05S	2	XX	A
	Port Size	**Operator**	**Engineering Level**

2. 3/8 Inch

XX	Air Pilot
XP	Air Pilot with Prestolok
49	24VDC
53	120VAC

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Performance Characteristics

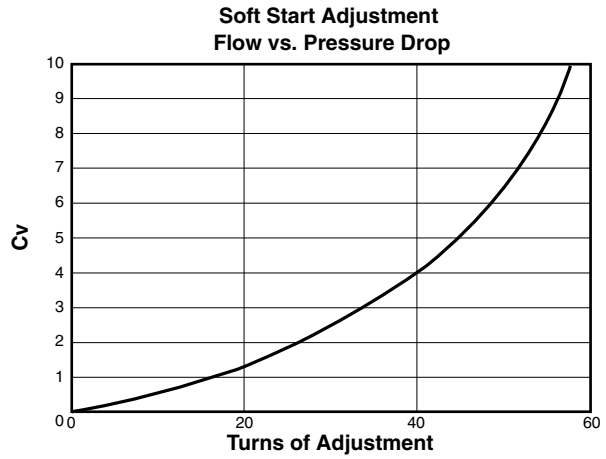


Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Pressure PSIG	Downstream Pressure PSIG
75	50
100	55
125	60
150	65

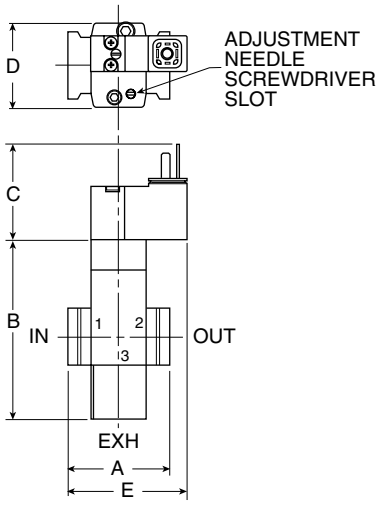
Table 2: Product forward Flow C_V and Exhaust Flow C_V.

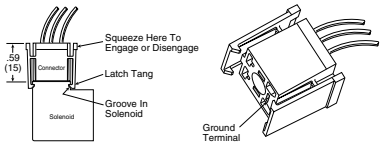
	Flow C_V	Exhaust Flow C_V
05S	1.3	1.6

Dimensions

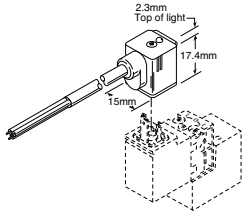
Model	Port Size	A	B	C	D	E
05S	3/8"	2.00 (51)	3.53 (90)	1.42 (36)	1.65 (42)	2.03 (52)

Inches (mm)





PS298305P



PS2946J79P

Kits & Accessories

3-Pin Female Connector Kit*† PS2932P
24VAC Lighted 3-Pin Connector Kit*† PS294679P
120/110VAC Lighted 3-Pin Connector Kit*† PS294683P
3-Pin Connector Kit, 24VAC or 24VDC w/6 Foot Cord* PS2946J79P
3-Connector Kit, 120/110VAC w/6 Foot Cord* PS2946J83P
1/2 Meter Cord (18 Inch)* PS298305P
3/8" Exhaust Silencer (05S) ES37MB

* Conductors: 2 Poles Plus Ground
Contact Spacing: 8mm

† Cable Range: 6 to 8mm (0.24 to 0.31 Inch)

Specifications

Exhaust Port ..... 3/8 Inch

Port Threads – Inlet and Outlet Ports – ..... 3/8 inch
BSPP and BSPT port threads are available through the use of modular port block kits

Pressure & Temperature Ratings –
Solenoid – 60 to 150 PSIG (400 to 1035 kPa)
32°F to 140°F (0°C to 60°C)
Air Pilot – 60 to 150 PSIG (400 to 1035 kPa)
32°F to 160°F (0°C to 70°C)
Air Pilot with Prestolok Adaptor – 60 to 150 PSIG (400 to 1035 kPa)
32°F to 150°F (0°C to 65°C)

⚠ **CAUTION:** The actual maximum pressure and temperature ratings noted above for valves with Prestolok fittings, are dependent upon the type of tubing that is used.

Weight ..... 12.7 oz. (.36 kg)

Materials of Construction

Body ..... Aluminum
Seals ..... Nitrile
Slide Rings ..... Lubricant Filled Thermoplastic
Springs ..... Stainless Steel

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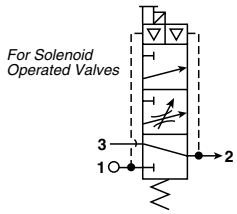
06S & 07S Soft Start / Quick Dump Valve

A Index

Features

- Combines Soft Start and Quick Dump Valve in the same body
- Large flow capacities up to 5.7 C_V
- Inline or Modular mounting
- Soft Start flow easily adjusted



06S

07S

Operation

When the valve is installed into the pneumatic system and pilot operator receives no signal, the air is blocked at Port 1. When a pilot signal is received at pilot operator, the valve shifts closing the connection between Ports 2 and 3. At the same time air flow begins between Ports 1 and 2 at a slow rate controlled by the needle valve located on the top of the valve. When the down stream pressure reaches approximately 60% of the supply pressure, the main valve spool opens allowing full flow through the valve into the system. If pilot signal or system pressure is lost, the valve returns to it's initial state venting the down stream pressure through Port 3.

Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

The valves pilot signal is through a solenoid pilot mounted on the head. The valve should be mounted downstream of the FRL and with the soft start adjustment needle easily accessible.

⚠ **CAUTION:** Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

⚠ **CAUTION:** Do not restrict the inlet of valves.

Ordering Information

06S	2	53	B	—

Series

06S.	**Soft Start / Quick Dump Valve**
07S.	**Soft Start / Quick Dump Valve**

Port Size

2. 3/8 Inch (06S)
3. 1/2 Inch (07S)

Operator / Voltage

30-145 PSI
49. 24VDC
53. 120/60 Hz
145-200 PSI
69. 24VDC
73. 120/60 Hz

Engineering Level

B. Current

Thread Type / Label

Blank NPT
1. BSPP (G)

NOTE: BOLD OPTIONS ARE STANDARD.

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Performance Characteristics

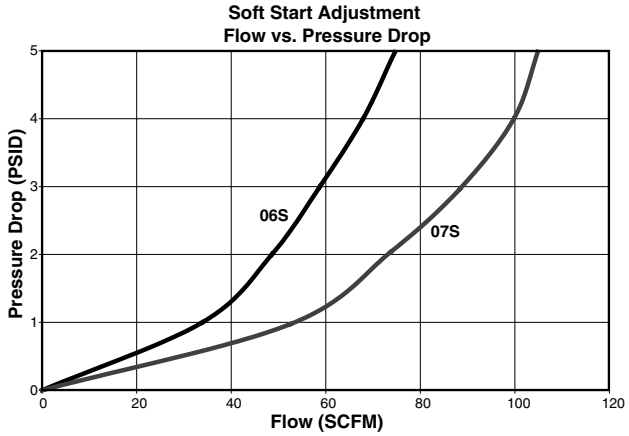


Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Pressure PSIG	Downstream Pressure PSIG 06S	07S
75	55	52
100	67	68
125	80	82
150	90	92

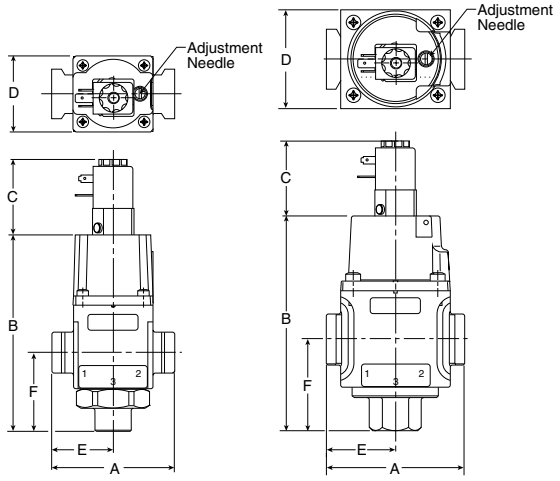
Table 2: Product forward Flow C_V and Exhaust Flow C_V.

	Flow C_V	Exhaust Flow C_V
06S	4.1	3.4
07S	5.7	4.6

Dimensions:

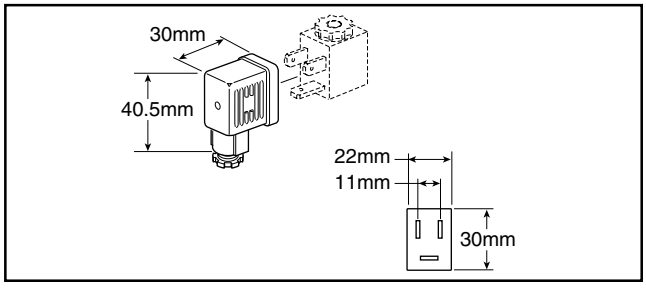
Model	Port Size	A	B	C	D	E	F
06S	3/8"	3.36 (85)	5.40 (137)	2.07 (53)	2.08 (53)	1.68 (43)	2.17 (55)
07S	1/2"	3.81 (96)	5.96 (151)	2.07 (53)	2.74 (70)	1.91 (48)	2.54 (65)

Inches (mm)



06S **07S**

22mm Rectangular 3-Pin



Connector	Connector with 6' (2m) Cord	Description
PS2429P	PS2429JP	Unlighted
PS243079P	PS2430J79P*	Light – 24VDC
PS243083P	PS2430J83P*	Light – 120V/60Hz

* LED with surge suppression.

Note: Max ø6.5mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

Engineering Data:
Conductors: 2 Poles Plus Ground; Cable Range (Connector Only): 6 to 8mm (0.24 to 0.31 Inch); Contact Spacing: 11mm

Kits & Accessories

06S Repair Kit PHRKSS75
07S Repair Kit PHRKSS105
06 Modular Body Connectors PS754P
07 Modular Body Connectors PS854P
1/2" Exhaust Silencer ES50MB
3/4" Exhaust Silencer ES75MB

Specifications

Exhaust Ports
06S ..... 1/2 Inch
07S ..... 3/4 Inch
Inlet and Outlet Ports
06S ..... 3/8 Inch
07S ..... 1/2 Inch
Maximum Pressure – (Standard Coil) ..... 145 PSIG (1000 kPa)
(High Pressure Coil) .... 200 PSIG (1380 kPa)
Minimum Operating Pressure ..... 30 PSIG (207 kPa)
Temperature Ratings ..... 40°F to 120°F (4°C to 49°C)
Weight
06S ..... 2.25 Lbs. (1.02 kg)
07S ..... 3.75 Lbs. (1.70 kg)

Materials of Construction

Body ..... Aluminum
Bottom Plug ..... Brass

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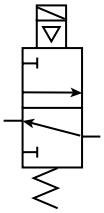
06T & 07T Solenoid Quick Dump Valve

A Index

Features

- Shuts off incoming pressure while rapidly exhausting downstream pressure
- Large exhaust flow capacities up to 5.0 Cv
- Solenoid operation
- Non-locking manual override
- Inline or Modular Mounting



06T

07T

Operation

The solenoid quick dump valves are high flow, normally closed, 3-Port, 2-Position directional control valves. Upon energizing the solenoid, inlet air is applied to the top of the piston. The piston pushes against the spring and opens the main valve providing full flow air to the downstream. When the solenoid is de-energized, the main valve closes allowing downstream air to exhaust rapidly through the bottom plug. The bottom plug is tapped so that exhaust may be piped away or fitted with a muffler.

⚠ **CAUTION:** Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

⚠ **CAUTION:** Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

Ordering Information

06T	2	53	A	—

Series

06T. Solenoid Quick Dump Valve
07T. Solenoid Quick Dump Valve

Port Size

2. 3/8 Inch (06T)
3. 1/2 Inch (07T)

Operator / Voltage

30-145 PSI
49. 24VDC
53. 120/60 Hz
145-200 PSI
69. 24VDC
73. 120/60 Hz

Engineering Level

A. Current

Thread Type / Label

Blank NPT
1. BSPP (G)

NOTE: BOLD OPTIONS ARE STANDARD.

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Performance Characteristics

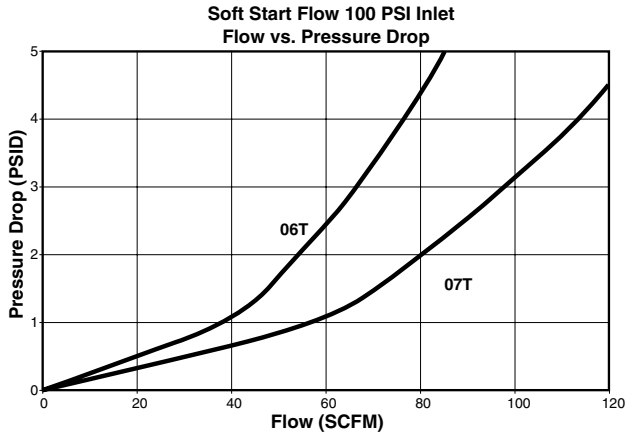


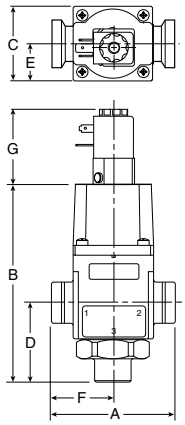
Table 1: Product forward Flow C_V (1 to 2).

	Flow C_V	Exhaust Flow C_V
06T	3.7	4.1
07T	5.5	5.0

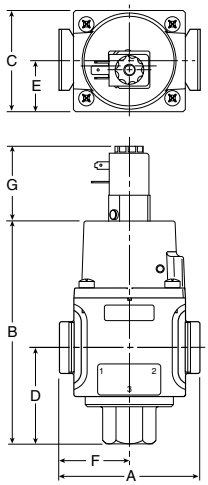
Dimensions:

Model	Port Size	A	B	C	D	E	F	G	H
06T	3/8"	3.36 (85,4)	5.40 (137)	2.08 (52,8)	2.17 (55.1)	1.04 (26,4)	1.68 (42,7)	2.07 (52,5)	1.90 (48)
07T	1/2"	3.81 (96,8)	5.96 (151)	2.74 (69,5)	2.55 (64,8)	1.37 (34,8)	1.91 (48,4)	2.07 (52,7)	1.90 (48)

Inches (mm)

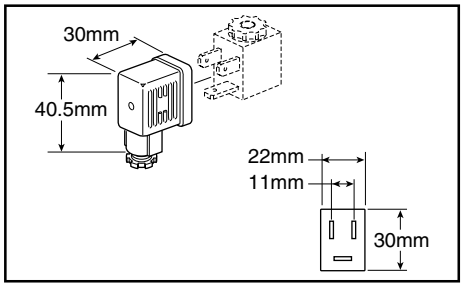


06T



07T

22mm Rectangular 3-Pin



Connector	Connector with 6' (2m) Cord	Description
PS2429P	PS2429JP	Unlighted
PS243079P	PS2430J79P*	Light – 24VDC
PS243083P	PS2430J83P*	Light – 120V/60Hz

* LED with surge suppression.

Note: Max ø6.5mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

Engineering Data:
Conductors: 2 Poles Plus Ground; Cable Range (Connector Only): 6 to 8mm (0.24 to 0.31 Inch); Contact Spacing: 11mm

Kits & Accessories

06T Repair Kit PHRKS75
07T Repair Kit PHRKS105
06 Modular Body Connectors PS754P
07 Modular Body Connectors PS854P
1/2" Exhaust Silencer ES50MB
3/4" Exhaust Silencer ES75MB

Specifications

Exhaust Ports
06T ..... 1/2 Inch
07T ..... 3/4 Inch
Inlet and Outlet Ports
06T ..... 3/8 Inch
07T ..... 1/2 Inch
Maximum Pressure – (Standard Coil) ..... 145 PSIG (1000 kPa)
(High Pressure Coil) .... 200 PSIG (1380 kPa)
Minimum Operating Pressure ..... 30 PSIG (207 kPa)
Temperature Ratings ..... 40°F to 120°F (4°C to 49°C)
Weight
06T ..... 2.25 Lbs. (1.02 kg)
07T ..... 3.75 Lbs. (1.70 kg)

Materials of Construction

Body ..... Aluminum
Bottom Plug ..... Brass

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Pneumatic Division
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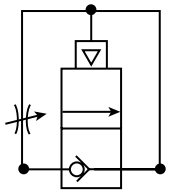
www.parker.com/pneumatic

06P & 07P Auto Pilot Soft Start Valve

A Index

Features

- Smooth start-up of pneumatic system
- Air pilot operation
- Large flow capacities up to 5.5 Cv
- Inline or Modular Mounting



06P

07P

Operation

When pressure is supplied to the inlet port, gradual filling of the downstream system occurs through the adjustable needle valve. The piston opens the main valve when the downstream side of the valve reaches approximately 60% of the supply pressure. The ramp up time to reach the switch over pressure is adjustable via the needle valve in the cover.

The Auto pilot soft start valve is not intended to be used as a shut off valve and should always be placed after a shut off valve.

⚠ **CAUTION:** Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

⚠ **CAUTION:** Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

Ordering Information

06P	2	A	—

Series
- **06P. Auto Pilot Soft Start Valve**
- **07P. Auto Pilot Soft Start Valve**

Port Size
- **2. 3/8 Inch (06P)**
- **3. 1/2 Inch (07P)**

Engineering Level
- **A. Current**

Thread Type / Label
- **Blank NPT**
- 1. BSPP (G)

NOTE: BOLD OPTIONS ARE STANDARD.

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Performance Characteristics

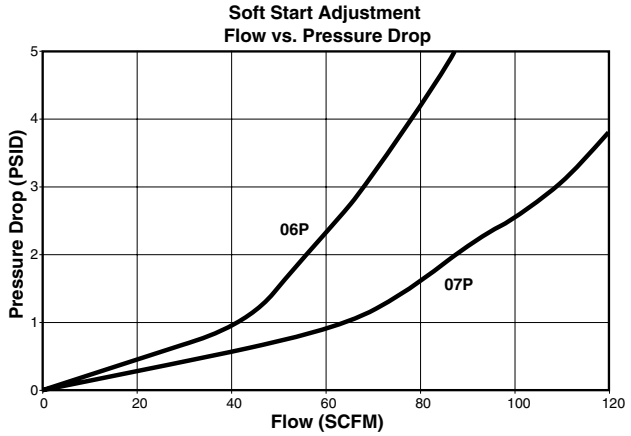


Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Pressure PSIG	Downstream Pressure PSIG	
	06P	07P
75	45	25
100	60	33
125	75	38
150	85	45

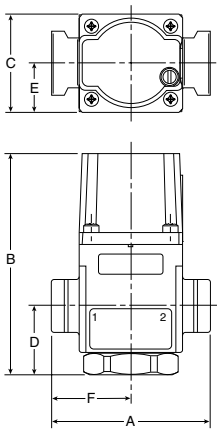
Table 2: Product forward Flow C_V (1 to 2).

	Flow C_V
06P	3.8
07P	5.5

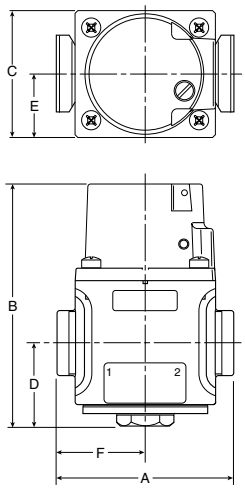
Dimensions:

Model	Port Size	A	B	C	D	E	F
06P	3/8"	3.36 (85,4)	4.70 (119)	2.08 (52,8)	1.48 (37,5)	1.04 (26,4)	1.68 (42.7)
07P	1/2"	3.81 (96,8)	5.21 (132,3)	2.74 (69,5)	1.80 (45,8)	1.37 (34,8)	1.91 (48,4)

Inches (mm)



06P



07P

Repair Kits

06P Repair Kit PHRKSS75
07P Repair Kit PHRKSS105
06 Modular Body Connectors PS754P
07 Modular Body Connectors PS854P

Materials of Construction

Body ..... Aluminum
Bottom Plug
06P ..... Brass
07P ..... Zinc

Specifications

Maximum Pressure ..... 300 PSIG (2068 kPa)
Minimum Operating Pressure ..... 30 PSIG (207 kPa)
Temperature Ratings ..... 40°F to 120°F (4°C to 49°C)
Opens to Full Flow ..... 60% Supply Pressure
Weight –
06P ..... 2.75 lb. (1.25 kg)
07P ..... 4.50 lb. (2.04 kg)

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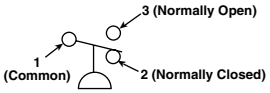
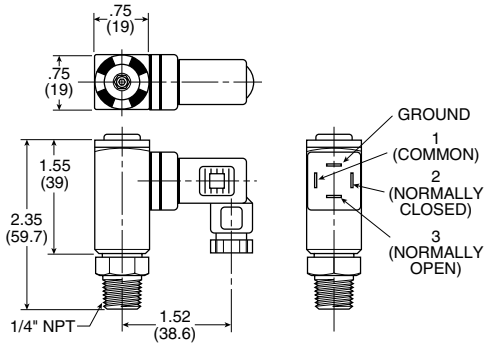
Pressure Switch – P01909



Features:

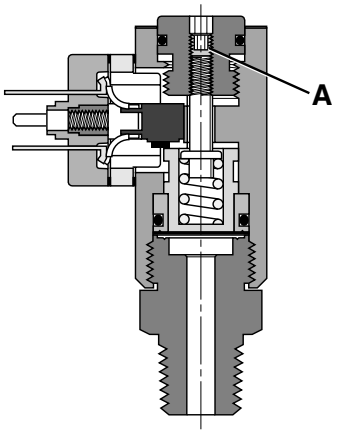
- Inline mounting
- Dial indicator for easy pressure setting
- 5 amp rated snap action micro switch
- Heavy duty Aluminum components
- Compact size
- DIN 43650HCM connector
- IP65 Rated
- Field adjustable 30-150 PSIG
- +/- 2% repeatability
- Single pole/Double throw switch



Operation

The pressure switch monitors the air pressure in your pneumatic system. When the pressure in your system either drops below or exceeds the set point pressure, an electrical output is given.

Using a .125" (3mm) hex wrench, turn the adjusting screw **(A)** clockwise to increase the pressure set point and counterclockwise to decrease the pressure setting. One complete revolution of the adjusting screw covers the complete adjustment range of 30-150 PSIG (2-10 bar).



Definitions and Terminology

Repeatability — Accuracy is the maximum allowable set point deviation of a single pressure or temperature switch under one given set of environmental and operational conditions.

Single Pole Double Throw (SPDT) Switching element — A SPDT switching element has one normally open, one normally closed and one common terminal. Three terminals mean that the switch can be wired with the circuit either normally open (NO), or normally closed (NC), or both.

Dead Band — The dead band, sometimes referred to as “differential” or “hysterisis”, is the change in pressure between actuation and deactuation set points.

Kits and Accessories

Bushing 1/4" to 3/8" 209P-6-4
Bushing 1/4" to 1/2" 209P-8-4

Specifications

Electrical ..... 5 AMP, 12/24VDC, 125/250VAC
Maximum Inlet Pressure ..... 300 PSIG (20 bar)
Mechanical Life ..... 10^6 at standard operating conditions
Electrical Connection ..... DIN 43650HCM
Electrical Protection IP65
Repeatability ..... ±2% at 70°F (20°C) Ambient
Temperature Range ..... -40°F to 180°F (-40°C to 80°C)
Weight ..... 0.13 lb. (0.06 Kg)

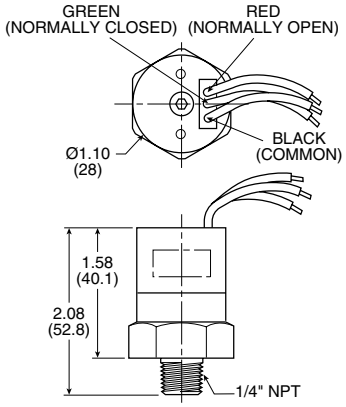
Materials of Construction

Diaphragm ..... Nitrile
Housing ..... Anodized Aluminum

Pressure Switch – P01908

Features:

- Inline mounting
- 5 amp rated snap action micro switch
- Brass body
- Compact size
- Flying leads electrical connection
- IP65 Rated
- Field adjustable 25-100 PSIG
- +/- 2% repeatability
- Single pole/Double throw switch

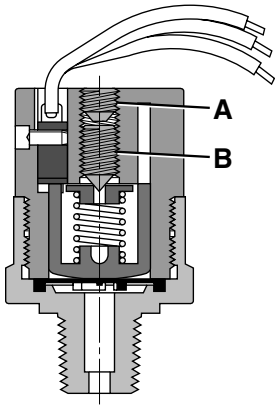


Operation

The pressure switch monitors the air pressure in your pneumatic system. When the pressure in your system either drops below or exceeds the set point pressure, an electrical output is given.

Remove screw **(A)** from the top of the switch. Using a .125" (3mm) hex wrench, turn the adjusting screw **(B)** clockwise to increase the pressure set point and counterclockwise to decrease the pressure setting, replace screw **(A)**. Adjustment range of 25 to 100 PSIG (.7 to 7.5 bar).

Standard electrical circuit
Black ..... Common
Green ..... Normally Closed
Red ..... Normally Open



Definitions and Terminology

Repeatability — Accuracy is the maximum allowable set point deviation of a single pressure or temperature switch under one given set of environmental and operational conditions.

Single Pole Double Throw (SPDT) Switching element — A SPDT switching element has one normally open, one normally closed and one common terminal. Three terminals mean that the switch can be wired with the circuit either normally open (NO), or normally closed (NC), or both.

Dead Band — The dead band, sometimes referred to as "differential" or "hysterisis", is the change in pressure between actuation and deactuation set points.

Kits and Accessories

Bushing 1/4" to 3/8" 209P-6-4
Bushing 1/4" to 1/2" 209P-8-4

Specifications

Electrical ..... 5 AMP, 12/24VDC, 125/250VAC
Maximum Inlet Pressure ..... 300 PSIG (20 bar)
Mechanical Life ..... $2x10^6$ at 75 PSIG (5 bar)
Electrical Connection ..... 18" Flying Leads
Electrical Protection IP65
Repeatability ..... ±2% at 70°F (20°C) Ambient
Temperature Range ..... -40°F to 180°F (-40°C to 80°C)
Weight ..... 0.23 lb. (0.11 Kg)

Materials of Construction

Diaphragm ..... Nitrile
Housing ..... Brass

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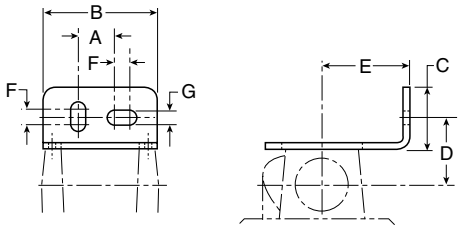
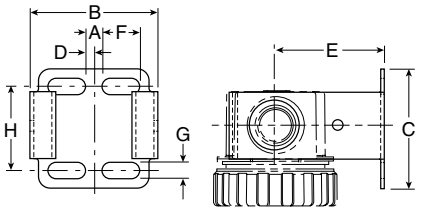
Mounting Bracket Kits

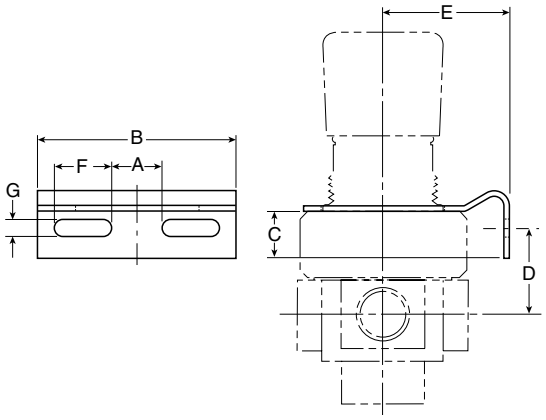
A Index



PS417BP
(Includes Panel Mount Nut)

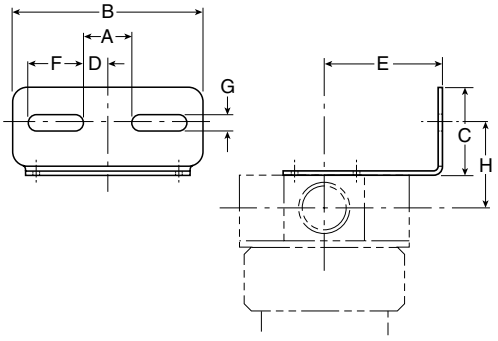


PS943P

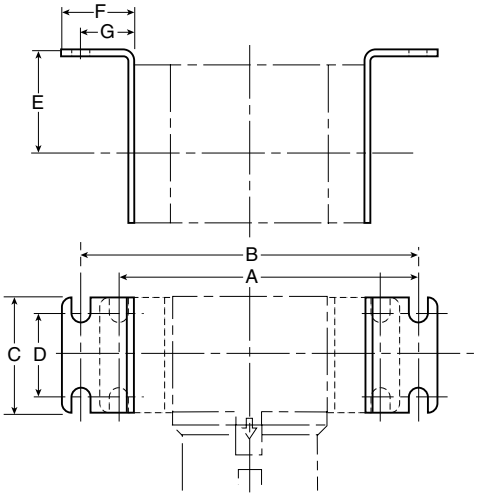


PS707P & PS807P
(Includes Panel Mount Nut)

PS963P
(Includes Aluminum Panel Mount Nut)



PS743P, PS843P



P3NKA00MW

Dimensions

	A	B	C	D	E	F	G	H	Kit
inches	.54	1.80	1.00	1.50	1.35	.28	.22	—	**PS417BP** (10F, 14F, P3A, 14R, 14E, 14L)
mm	14	46	25	38	34	7	6	—	
inches	.84	3.25	1.50	.42	2.00	.94	.28	1.44	**PS743P** (06F, 11F, 06L, 16L)
mm	21	83	38	11	51	24	7	37	
inches	1.00	3.94	1.57	.50	2.19	1.25	.28	1.68	**PS843P** (07F, 12F, 07L, 17L)
mm	25	100	40	13	56	32	7	43	
inches	.28	2.12	2.00	.14	1.85	.63	.28	—	**PS943P** (05F, 15F, 15L)
mm	7	54	51	4	47	16	7	—	
inches	.84	2.59	.49	1.02	1.85	.61	.28	1.41	**PS963P** (05R, 10R, 05E, 27E)
mm	21	66	12	26	47	15	7	36	
inches	.84	3.26	.77	1.46	2.00	.94	.28	—	**PS707P** (06R, 06E, 11R)
mm	21	83	20	37	51	24	7	—	
inches	1.00	3.94	.65	1.68	2.19	1.25	.28	—	**PS807P** (07R, 07E, 12R)
mm	25	100	17	43	56	32	7	—	
inches	6.22	8.19	2.75	1.97	2.36	1.77	1.30	—	**P3NKA00MW** (P3NF, P3NR, P3NE, P3NL)
mm	158	208	70	50	60	45	33	—	

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