

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





Air Preparation Products

Filters, Regulators, Lubricators, & Airline Accessories

Catalog 0700P-E







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Filters, Regulators, Lubricators	www.parker.com/pneu/frl	A SA	Filters, Regulators, Lubricators
Stainless Steel FRLs	www.parker.com/pneu/ssfrls		Stainless Steel FRLs
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Safety Guide, Offer of Sale			Model to age Number Index

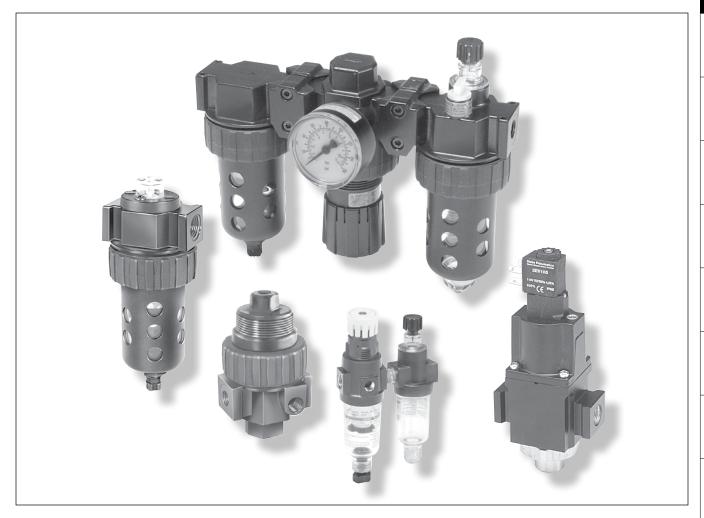




Filters, Regulators, Lubricators

Mini, Prep-Air® II, General Line

Section C www.parker.com/pneu/frl



C1

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BOLD ITEMS ARE MOST POPULAR.



Regulators

Lubricators

Combos

Accessories

/ CAUTION:

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

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

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

Metal bowl guards are recommended for all applications.

! CAUTION:

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



Product Selection Chart

Basic	Series					F	ort Siz	е						Bowls		Capacity	Eleme	Elements (Micron)				
Unit	361162	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	Poly	Metal	Metal SG	Сараспу	5	20	40	Adsorber	Page	
	02F		Х										Alur	minum l	num Body -		Std.	_	_	-	C9	
	14F	Х	Х										Х	Х	_	1 oz.	Std.	_	Opt.	Opt.	C10	
	05F		Х	Х									Х	Х	Х	2 oz.	Opt.	_	Std.	Opt.	C12	
F	06F		Х	Х	Х								Х	Х	Х	4.4 oz.	Opt.	_	Std.	Opt.	C14	
L T E	07F			Х	Х	Х							Х	Х	Х	7.2 oz.	Opt.	_	Std.	Opt.	C16	
R S	P3NF					Х	Х		Х				_	_	Х	18 oz.	Opt.	_	Std.	Opt.	C18	
	F602					Х	Х	Х	Х	Х	Х		_	Х	Х	32 oz.	Opt.	_	Std.	-	C20	
	35F								Х	Χ			_	Х	_	27.5 oz.	Std.	_	1	_	C26	
	43F											Х	_	Х	_	50.72 oz.	Std.	_	1	_	C26	
	02F		Х										Nyl	on Hou	sing	_	(Grade (6, Grad	e 10	C31	
	10F	Х	Х										Х	Х	_	1 oz.	Grade	e 6 Std	., Grad	e 10 Opt.	C32	
C	15F		Х	Х									Х	Х	Х	2 oz.	Grade	e 6 Std	., Grad	e 10 Opt.	C34	
0 A F	11F		Х	Х	Х								Х	Х	Х	4.4 oz.	Grade	e 6 Std	., Grad	e 10 Opt.	C36	
L L E T C R	12F			Х	Х	Х							Х	Х	Х	7.2 oz.	Grade	e 6 Std	., Grad	e 10 Opt.	C38	
I R N S G	P3NF					Х	Х		Х				_	_	Х	18 oz.	Grade	e 6 Std	., Grad	e 10 Opt.	C40	
ľ	F701					Х	Х						_	Х	Х	32 oz. 100 oz.	Grad	e 6 Std	., Grad	e 10 Std.	C42	
	35F								Х	Х			_	Х	_	27.5 oz.			.01 Mi sorber	cron	C44	
	43F											Х	_	Х	_	50.72 oz.			.01 Mi sorber		C44	
S E P P A R T A R O R S	РЗТБ		X	X	X	X	Х		X	X			Alur	minum I	Body			Water	Separa	ator	C46	



Coalescers

Regulators

Accessories Lubricators

Regulators

Accessories

Product Selection Chart

Bas	sic						Port	Size										Spr	ing Ra	nge						
Unit Series 1/8 1/4 3/8 1/2 3/4 1 1-1/4 1-1/2 2 2-1/2 2 15 25 30 40 60 110 120 125 150								150	160	200	250	Page														
		14R	Х	Х									_	Opt.	_	Opt.	_	Opt.	_	_	Std.	_	_	_	_	C52
		P3A-R	Х	Х									_	Std.	_	Std.	_	Std.	_	Std.	_	_	_	_	_	C54
		R34	Х	Х									_	_	_	Opt.	_	Opt.	_	_	Std.	_	_	_	_	C56
		R24 / R25	Х	Х									_	_	_	Std.	_	Std.	_	_	Std.	_	_	_	_	C58
		R45 / R46		Х	Х								_	_	Std.	_	_	Std.	_	_	Std.	_	_	_	_	C60
	S T	20R	Х	Х									_	Std.	_	Std.	_	Std.	_	_	Std.	_	_	_	_	C62
	A N D	15R		Х	Х								_	Opt.	_	Opt.	_	Opt.	_	_	Std.	_	_	_	_	C64
R	A R D	05R		Х	Х								_	_	_	Opt.	_	Std.	_	_	Std.	_	_	Opt.	_	C66
R E G U		06R		Х	Х	Х							_	_	_	_	_	Std.	_	_	Std.	_	_	_	Opt.	C68
L A T O		07R			Х	Х	Х						_	_	_	_	_	Std.	_	_	Std.	_	_	_	Opt.	C70
R S		P3NR					Х	Х		Х			_	_	_	_	_	Opt.	_	_	Std.	_	_	_	Opt.	C72
		R119					Х	Х	Х	Х			_	_	_	_	_	_	_	_	Std.	_	_	_	Opt.	C74
		09R									Х		_	_	_	_	_	_	_	_	Std.	_	_	_	_	C76
•		10R		Х	Х								*	*	*	*	*	*	*	*	*	*	*	*	*	C78
	_	11R		Х	Х	Х							*	*	*	*	*	*	*	*	*	*	*	*	*	C80
	P I L O	12R			Х	Х	Х						*	*	*	*	*	*	*	*	*	*	*	*	*	C82
	T	P3NR					Х	Х		Х			*	*	*	*	*	*	*	*	*	*	*	*	*	C84
		R119					Х	Х	Х	Х	Х	Х	*	*	*	*	*	*	*	*	*	*	*	*	*	C86

^{*} Will follow Pilot Regulator setting.



Product Selection Chart

Bas	sic	Carias				Po	ort Si	ze					Bowls		Consoitu		emen Micro		Adaarbar			S	pring	Ranç	je			Done
Ur		Series	1/8	1/4	3/8	1/2	3/4	1	1- 1/4	1- 1/2	2	Poly	Metal	Metal SG	Capacity	5	20	40	Adsorber	15	25	30	60	110	125	200	250	Page
F		14E	Х	Х								Х	Х	_	1 oz.	Std.	_	Opt.	Opt.	Opt.	_	Opt.	Opt.	_	Std.	_	_	C92
L	:	B34	Х	Х								Х	Х		Х	Х	Opt.			_	Opt.	_	Opt.	_	Std.	_	_	C94
F F		05E		Х	Х							Х	Х	Х	2 oz.	Opt.	_	Std.	Opt.	_	_	Opt.	Std.	_	Std.	Opt.	_	C96
F	:	06E		Х	Х	Х						Х	Х	Х	4.4 oz.	Opt.	_	Std.	Opt.	_	_	Std.	Std.	_	Std.	_	Opt.	C98
l L		07E			Х	Х	Х					Х	Х	Х	7.2 oz.	Opt.	_	Std.	Opt.	_	_	Std.	Std.	_	Std.	_	Opt.	C100
A	.	P3NE					Х	Х		Х		-	_	Х	18 oz.	Opt.	_	Std.	Opt.	_	_	_	Std.	_	Std.	_	Std.	C102
F	Ì	12E			Х	Х	Х					_	Х	_	7.2 oz.	6 Std.	_	10 Opt.	_	_	_	Opt.	Opt.	_	Std.	_	Opt.	C104
	M	15L		Х	Х							Х	Х	Х	2 oz.	Otu.		Opt.	Cannot I	oe fille	ed un	der pi	essui	re				C108
	C R O	16L		Х	Х	Х						Х	Х	Х	2.6 oz.	Cannot be filled under pressure						C110						
L U B	M I S T	17L			Х	Х	Х					Х	Х	Х	4.9 oz.	Cannot be filled under pressure						C112						
B R I	╣	02L		Х	Х							Alu	<u> </u> minum	Body	.25 oz.				Cannot I	e fille	ed un	der pi	essur	re				C117
C A	Ì	04L	Х	Х								Х	Х	<u> </u>	1 oz.				Cannot I	oe fille	ed un	der pi	essui	re				C118
T	Ì	06L		Х	Х	Х						Х	Х	Х	2.9 oz.	Can be filled under pressure						C120						
0 R	М	07L			Х	Х	Х					Χ	Х	Х	6 oz.	Can be filled under pressure						C122						
S	S	P3NL					Х	Χ		Х		_	_	Х	18 oz.	Can be filled under pressure					C124							
	T	L606					Х	Х	Х	Х		_	Х	Х	16 oz. 32 oz. 64 oz.	Can be filled under pressure					C126							
		09L									Х	_	_	Х	1 Qt. Std. 3 Qt. Opt.				Can be	filled	l unde	er pre	ssure					C130
П	T	14G	Χ	Х								Х	Х	_	1 oz.		Τ\	wo-Ur	it	Opt.		Opt.	Opt.	_	Std.	_	_	C424
	ĺ	14A	Χ	Χ								Х	Х	_	1 oz.		Th	ree-U	nit	Opt.		Opt.	Opt.	_	Std.	_	_	C134
		15G		Х	Х							Х	Х	Х	2 oz.		Τ\	wo-Un	iit	_		Opt.	Std.	_	Std.	Opt.	_	C136
	N	15A		Х	Х							Х	Х	Х	2 oz.		Th	ree-U	nit	_		Opt.	Std.	_	Std.	Opt.	_	0130
	P	06G/16G		Χ	Χ	Χ						Х	Х	Х	2 oz.			vo-Un		_		_	Std.	-	Std.	_	Opt.	
	11	06A/16A		Χ	Χ	Χ						Х	Х	Х	2 oz.			ree-U	-	_		-	Std.	_	Std.	_	Opt.	C142
	<u>-</u> - 1	07G/17G			Х	Х	X					Х	X	X	2 oz.			wo-Un		_		-	Std.	_	Std.	_	Opt.	
c	D	07A/17A			Х	Χ	X	,,	<u> </u>			Х	Х	X	2 oz.	_		ree-U		_	_	-	Std.	_	Std.	_	Opt.	
0 M		P3N3A					X	X		X		-	-	X	18 oz.			wo-Un	-	_		-	Std.	_	Std.	_	Std.	C148
M B O	ŀ	P3N3B					X	X		X		-		X	18 oz.			ree-U		_		-	Std.	_	Std.	_	Std.	0450
S	\dashv	C628 15H	_	Х	Х		Х	Х	Х	Х		<u> </u>	X	X	32 & 16 2 oz.			ree-U wo-Ur				Opt.	Std.	_	Std.	Opt.	Std.	C153
		15B		X	X							X	X	χ	2 0z. 2 oz.			ree-U				<u> </u>	Std.	_	Std.			C138
	М	06H/16H		Х	X	Х						X	Х	X	2 oz.			wo-Ur		_		—	Std.		Std.	—	Opt.	
	٧ŀ	06B/16B		Х	Х	Х			\vdash			X	X	X	2 oz.			ree-U				 	Std.		Std.		Opt.	
	U	07H/17H		Ė	Х	Х	Х					Х	Х	X	2 oz. Two-Unit — Std. — Std Std		_	Opt.	<u></u> C144 I									
	Ä	07B/17B			Х	Х	Х					Х	Х	Х	2 oz.			ree-U		_		_	Std.	_	Std.	_	Opt.	
	R	P3NCA					Х	Х		Х		<u> </u>	<u> </u>	Х	18 oz.			wo-Ur		_		<u> </u>	Std.	_	Std.	_	Std.	
	Ì	P3NCB					Х	Χ		Χ		<u> </u>	<u> </u>	Х	18 oz.		Th	ree-U	nit	_		_	Std.	_	Std.	_	Std.	C150

C5



Product Selection

Combos

Filters

Coalescers

Regulators

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Accessories Lubricators

Air Preparation Units

Prep-Air® II

Air Line Filters Air Pr

Filters

Filters

Coalescers

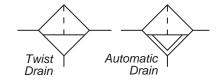
Regulators

Filter/ Regulators

Lubricators

Combos

Accessories



- 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.

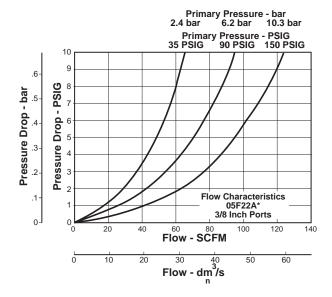
- Miniature 02F Series, 1/4 Inch
- Miniature 14F Series, 1/8 and 1/4 Inch
- Economy 05F Series, 1/4 and 3/8 Inch
- Compact 06F Series, 1/4, 3/8 and 1/2 Inch
- Standard 07F Series, 3/8, 1/2 and 3/4 Inch
- Hi-Flow P3NF Series, 3/4, 1 and 1-1/2 Inch
- Hi-Flow F602 Series, 3/4, thru 2 Inch
- Hi-Flow 35F Series, 1-1/2 and 2 Inch
- Hi-Flow 43F Series, 3 Inch

Filter Selection

- 1. Determine maximum system flow requirements.
- 2. Determine maximum allowable pressure drop at rated flow in SCFM.
- 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.

C6

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.





Particulate Filters:

For the removal of solid particle contaminants down to 5 microns and the separation of bulk liquids.

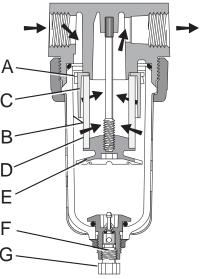
This type of filter is generally used in industrial applications where liquid water and oil, and harmful dirt particles must be removed from the compressed air system. This type of filter should also be used as a prefilter for the Coalescing (oil removal) filter.

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.



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.



C

Product Selection

Filters

Coalescers

Regulators

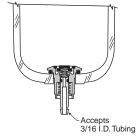
Filter/ Regulators

Lubricators

Compos

Accessories

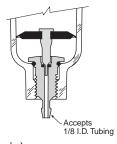
Semi Automatic Drain



(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.

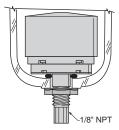
Automatic Pulse Drain



(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.





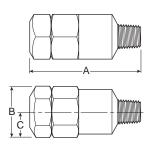
02F Filters – Miniature





Application

This small, aluminum in-line filter is designed to provide protection for portable pneumatic hand tools. It weighs only 2 ounces with a throw-away filter element rated at 5 micron. Either port may be used as the inlet port. Flow is 17 SCFM (10.3 dm³/s) at 90 psig (6.2 bar) inlet pressure with 5 psig (0.3 bar) pressure drop.



Part Number	02F	Filter Dimensi	ons
	Α	В	С
02F1BA	2.50	1.00	.50
	(63.5)	(25)	(13)

Inches (mm)

Specifications

Flow Capacity*	17 SCFM (8 dm ³ /s)
Operating Temperature	.32° to 150°F (0° to 65.5°C)
Maximum Supply Pressure	200 psig (13.8 bar)
Standard Filtration	5 Micron
Port Size NPT / BSPT	1/4
Weight lb. (kg)	0.13 lb. (0.06 kg)

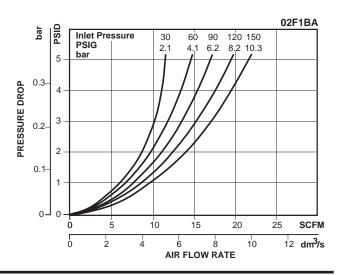
^{*} Inlet pressure 90 psig (6.2 bar). Pressure drop 5 PSID (0.3 bar).

Materials of Construction

Body	Aluminum
Baffle	Aluminum
Filter Element	Sintered Polyethylene
Seals	Nitrile

Replacement Element Kits

5 Micron	² S436
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Ordering Information

Port Size	5 Micron
1/4"	02F1BA

C9



Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

[&]quot;F" Series Filters, Type "A" 5 micron elements: All Parker 5 micron elements meet or exceed ISO Class 3 for maximum particle size and concentration of solid contaminants.

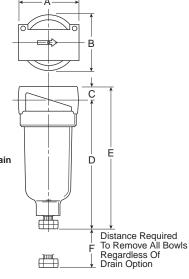
14F Filters - Miniature

Twist Automatic

Features

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





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

4.26	1.60
(108)	(41)

Standard part numbers shown bold.

For other models refer to ordering information below.

- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

Inches	(mm)
--------	------

1.69

(43)

D 3.82

(97)

Εţ

14F Filter **Dimensions** В

1.53

(39)

D†

3.87

(99)

F

С

.39

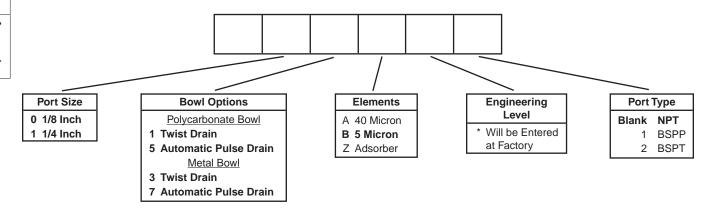
(10)

Ε

4.21

(107)

Ordering Information



C10

BOLD ITEMS ARE MOST POPULAR.

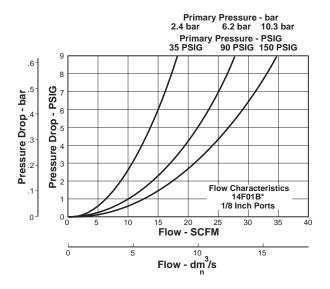


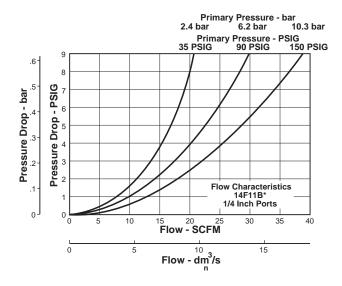
Filters Coalescers

Regulators

Filter/ Regulators

[†] With Automatic Pulse Drain.





14F Filter Kits & Accessories

Bowl Kits – Poly Bowl –	
Automatic Pulse Drain Twist Drain	
Metal Bowl – Automatic Pulse Drain Twist Drain	
Filter Element Kits – 40 Micron	DC404D
5 Micron	
5 Micron Cartridge Kit	
Adsorber	PS452P
Mounting Bracket Kit	PS417BP
Specifications	
Specifications Automatic Pulse Drain Tube Barb	1/8 Inch
•	
Automatic Pulse Drain Tube Barb	1 Ounce
Automatic Pulse Drain Tube Barb Bowl Capacity Port Threads Pressure & Temperature Ratings –	1 Ounce
Automatic Pulse Drain Tube Barb Bowl Capacity Port Threads	1 Ounce
Automatic Pulse Drain Tube Barb Bowl Capacity Port Threads Pressure & Temperature Ratings –	
Bowl Capacity Port Threads Pressure & Temperature Ratings – Polycarbonate Bowl	

Materials of Construction

Body	Zinc
Bowls	Transparent Polycarbonate Metal (Zinc) Bowl w/o Sight Gauge
Deflector, Element Holder & Ba	afflePlastic
Drains – Twist Drain – Body & Stem Seals	Plastic Nitrile
Automatic Pulse Drain – Piston & Seals Stem, Seat, Adaptor & Was	Nitrile shersAluminum
40 Micron (Optional)	PlasticPlasticPlasticActivated Charcoal
Seals	Nitrile



Product election

Filters

Coalescers

Regulators

S Filter /

Combos Lubricators

Accessories



05F Filters - Economy

Twist Automatic

Coalescers

Regulators

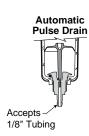
Filter / Regulators

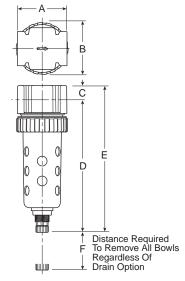
Features

Excellent water removal efficiency.

(Revised 08-09-11)

- · 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 and 5 micron available.
- Shown with recommended metal bowl guard.
- High Flow: 1/4" 54 SCFM[§] 3/8" - 70 SCFM§





Port	NPT	
Size	Twist Drain	Automatic Pulse Drain
Poly Bowl	[‡] / Metal Guard	
1/4"	05F12A*	05F1PA*
3/8"	05F22A*	05F2PA*
Metal Bow	√l / Sight Gauge	
1/4"	05F14A*	_
3/8"	05F24A*	_

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

05F Filter

Inches (mm)

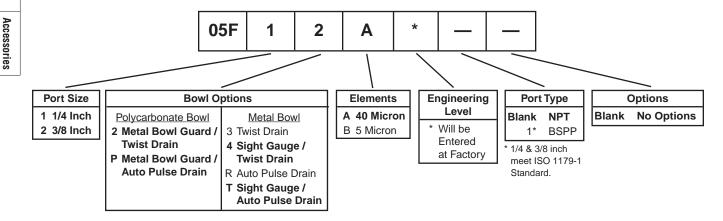
† With Twist or Automatic Pulse Drain

Standard part numbers shown bold.

For other models refer to ordering information below.

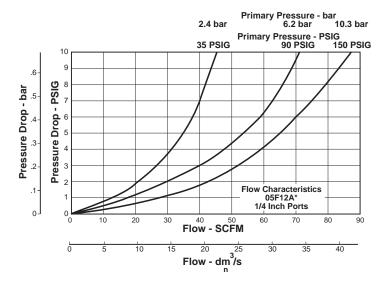
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

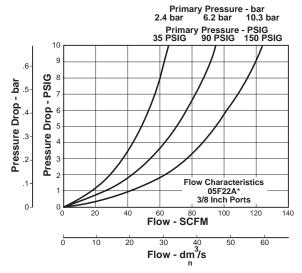
Ordering Information



C12







Bowl Guard Kit	PS905P
Bowl Kits –	
Poly Bowl –	
Automatic Pulse Drain	
Twist Drain	PS932P
Metal Bowl –	
Automatic Pulse Drain	PS997P
Twist Drain	PS934P
Sight Gauge / Automatic Pulse Drain	PS996P
Sight Gauge / Twist Drain	PS935P
DPI Replacement Kit	.PS781P
Drain Kit –	
Automatic Pulse Drain	PS998P
Semi-Auto Drain	
Twist Drain	PS512P
Push 'N' Drain	
Filter Element Kits –	
40 Micron	PS901P
5 Micron	PS902P
Adsorber	
Mounting Bracket Kit	PS943P
Sight Gauge Kit	PS914P

Specifications

Bowl Capacity	2.0 Ounces
Sump Capacity	0.9 Ounce
Port Threads	1/4, 3/8 Inch

Pressure & Temperature Ratings -

Without Differential Pressure Indicator:

Polycarbonate Bowl – 0 to 150 psig (0 to 10.3 bar) $32^{\circ}F$ to $125^{\circ}F$ (0°C to $52^{\circ}C$)

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)

Materials of Construction

C13

Materials of Con	isti uction
Body	Zinc
Bowls	Transparent Polycarbonate or Metal (Zinc) With or Without Sight Gauge
Bowl Guards	Steel
Collar	Plastic
Deflector, Shroud & Baf	flePlastic
Drain	Plastic
Filter Elements –	
40 Micron (Standard)	Plastic
5 Micron (Optional)	Plastic
	Activated Charcoal
Seals	Nitrile
Sight Gauge, DPI	Polyamide (Nylon)



C

Product Selection

Filters

Coalescers

Filter / Regulators

Lubricators

Compos

Accessories

06F Filters - Compact

Twist Automatic Drain

Coalescers

Regulators

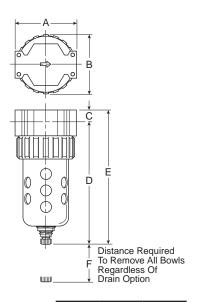
Filter/ Regulators

Accessories

Features

- · Excellent water removal efficiency.
- Unique deflector plate and shroud creates a swirling of the air stream ensuring maximum water and dirt separation.
- Large filter element surface guarantees low pressure drop and increased element life.
- · Optional automatic float drain available.
- Shown with recommended metal bowl guard.

 High Flow: 1/4" – 53 SCFM§ 3/8" – 80 SCFM§ 1/2" – 85 SCFM§



Port	NPT	
Size	Twist Drain	Automatic Float Drain
Poly Bowl	‡ / Metal Guard	
1/4"	06F12A*	06F16A*
3/8"	06F22A*	06F26A*
1/2"	06F32A*	06F36A*
Metal Bowl / Sight Gauge		
1/4"	06F14A*	06F18A*
3/8"	06F24A*	06F28A*
1/2"	06F34A*	06F38A*

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)	

06F Filter Dimensions

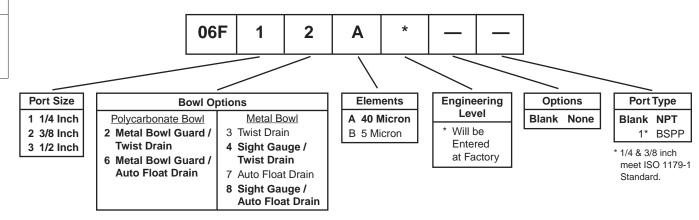
Inches (mm)

Standard part numbers shown bold.

For other models refer to ordering information below.

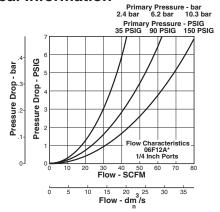
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

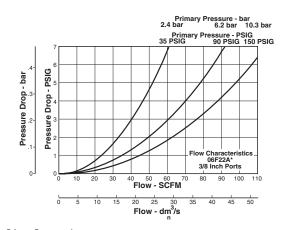
Ordering Information

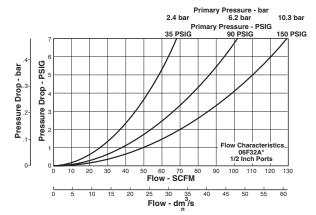




[†] With Automatic Float Drain







C15

06F Filter Kits & Accessories

Bowl Guard KitPS705P
Bowl Kits –
Poly Bowl –
Automatic Float DrainPS722P
Twist DrainPS732P
Metal Bowl –
Automatic Float DrainPS726P
Twist DrainPS734P
Sight Gauge / Automatic Float DrainPS723P
Sight Gauge / Twist DrainPS735P
DPI Replacement KitPS781P
Drain Kits –
Automatic Float DrainPS506P
Semi-Auto DrainPS511P
Twist DrainPS512P
Push 'N' Drain PS513P
Filter Element Kits –
40 MicronPS701P
5 Micron PS702P
AdsorberPS731P
Mounting Bracket Kit PS743P
Sight Gauge KitPS914P
0 10 11
Specifications
Bowl Capacity4.4 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)

Materials of Construction

Zinc
parent Polycarbonate or
or Without Sight Gauge
Steel
Plastic
Plastic
Plastic
Nitrile
Brass
Plastic
Nitrile
Stainless Steel
Plastic
Plastic
Activated Charcoal
Nitrile
Polyamide



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Standard 07F Series

07F Filters - Standard

Twist Automatic



Features

Excellent water removal efficiency.

(Revised 08-09-11)

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

A	- B	
	E D Distance Required To Remove All Bowl:	S
ШШ	F To Remove All Bowling Regardless Of Drain Option	S

Port	NPT		
Size	Twist Drain	Automatic Float Drain	
Poly Bowl [‡] / Metal Guard			
1/2"	07F32A*	07F36A*	
3/4"	07F42A*	07F46A*	
Metal Bowl / Sight Gauge			
1/2"	07F34A*	07F38A*	
3/4"	07F44A*	07F48A*	

Standard part numbers shown bold.

For other models refer to ordering information below.

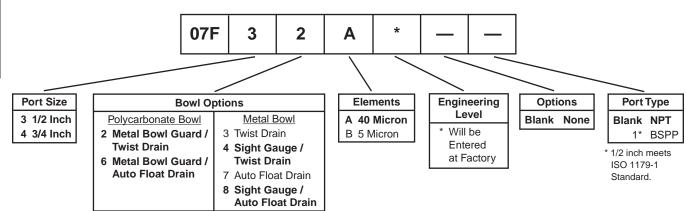
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

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



C16

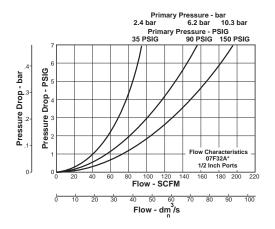
BOLD ITEMS ARE MOST POPULAR.

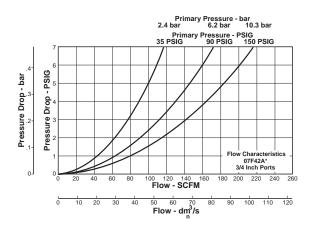


Filters Coalescers

Regulators

Filter/ Regulators





Bowl Guard KitPS805P
Bowl Kits –
Poly Bowl –
Automatic Float DrainPS822P
Twist DrainPS832P
Metal Bowl –
Automatic Float DrainPS826P
Twist DrainPS834P
Sight Gauge / Automatic DrainPS823P
Sight Gauge / Twist Drain PS835P
DPI Replacement KitPS781P
Drain Kits –
Automatic Float DrainPS506P
Semi-Auto DrainPS511P
Twist DrainPS512P
Push 'N' DrainPS513P
Filter Element Kits –
40 MicronPS801P
5 Micron PS802P
AdsorberPS831P
Mounting Bracket KitPS843P
Sight Gauge Kit PS914P
Specifications
-
Bowl Capacity7.2 Ounces
Sump Capacity2.8 Ounces
Port Threads1/2, 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)

Materials of Construction

C17

Bowls Zinc Bowls Transparent Polycarbonate Metal (Zinc) With or Without Sight Gauge	е
Bowl Guards Stee	اڊ
Collar Plastic or Meta	al
Deflector, Shroud & BafflePlastic	С
Drains –	
Twist Drain – Body & NutPlastic Push 'N' Drain –	0
Body Nitrile	Э
StemBrass	3
Automatic Float Drain –	
Housing, FloatPlastic	С
SealsNitrile	
Springs, Push Rod Stainless Steel	ŀ
Filter Elements –	
40 Micron (Standard)Plastic	
5 Micron (Optional)Plastic	С
Adsorber (Optional) Activated Charcoal	
SealsNitrile	е
Sight Gauge Polyamide	е



Product Selection

Filters

Regulators Coalescers

Filter / Regulators

Lubricators

P3NF Filters - Hi-Flow

Twist Automatic Drain Drain

Drain Drain

Filters

Coalescers

Regulators

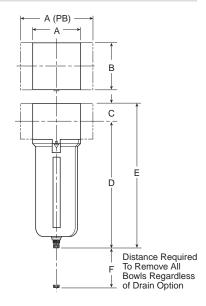
Filter/ Regulators

Combos

Accessories

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	NPT		NPT	
Size	Twist Drain	Automatic Float Drain		
Metal Bowl / Sight Gauge				
3/4"	P3NFA96GSM	P3NFA96GSA		
1"	P3NFA98GSM	P3NFA98GSA		
1-1/2"#	P3NFA9PGSM	P3NFA9PGSA		

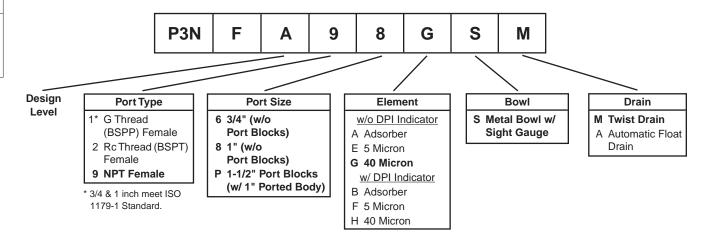
Standard part numbers shown bold. For other models refer to ordering information below.

- # 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)

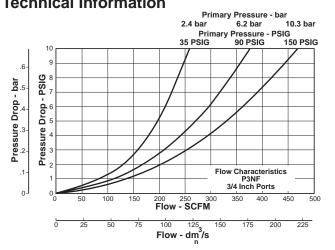
Ordering Information

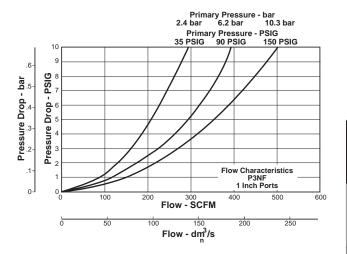


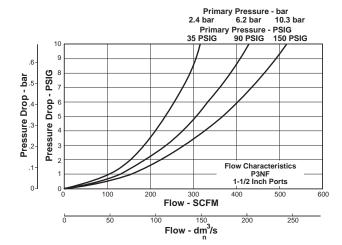
C18



[†] With Twist Drain or Automatic Float Drain







C19

P3NF Filter Kits & Accessories

Bowl Kits – Metal Bowl – Sight Gauge / Automatic Float Drain	P3NKA00BSM
Bowl Latch Kit	C11A33
DPI Replacement Kit	PS781P
Drain Kit – Automatic Float Drain Twist Drain	
Filter Elements – 40 Micron 5 Micron Adsorber	P3NKA00ESE
Mounting Bracket Kit*	P3NKA00MW
Sight Gauge Kit	P3NKA00PE

Specifications

Pressure	&	Temperature	Rating -
----------	---	--------------------	----------

0 to 250 psig (0 to 17 bar) 32°F to 175°F (0°C to 80°C) Automatic Float Drain - 15 to 250 psig (1.0 to 17 bar)

Bowl Capacity	18.0 Ounces
Sump Capacity	6.8 Ounces
Weight –	
3/4"	3.5 lb. (1.6 kg)
1"	3.5 lb. (1.6 kg)

1-1/2" # 4.6 lb. (2.1 kg)

Materials of Construction

Body	Aluminum
Deflector	Plastic
Drain	Plastic
Filter Elements –	
40 Micron (Standard)	Plastic
5 Micron (Optional)	Plastic
Adsorber (Optional)	Activated Charcoal
Seals	Nitrile
Sight Gauge	Polyamide (Nylon)
# 1" Port Body with 1-1/2" Port Block.	

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



Filters

Coalescers

Regulators

Lubricators

Combos

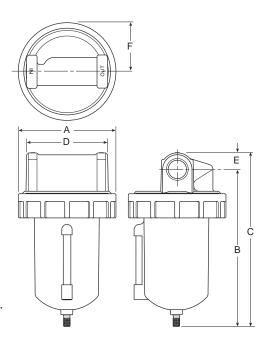
Accessories

F602 Filters - Hi-Flow



Features

- Excellent water removal efficiency
- · For heavy duty applications with minimum pressure drop requirement.
- Unique deflector plate that creates 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 available.
- · Metal bowl with sight gauge standard.
- · Twist drain as standard, optional auto drain.
- Large bowl capacity.
- Optional high capacity bowl(s) available.
- High Flow: 3/4" 270 SCFM§



		1" – 300 \$		
Port	N	РТ		
Size	Twist Drain	Internal Auto Drain		
Metal Bowl / Sight Gauge - 16 oz.				
3/4"	F602-06WJ	F602-06WJR		
1"	F602-08WJ	F602-08WJR		
Metal Bowl without Sight Gauge - 32 oz.				
3/4"	F602-06EJ	F602-06EJR		

ternal Auto Drain	
F602-06WJR	
F602-08WJR]
F602-06EJR	
F602-08EJR	
	-

Standard part numbers shown bold.

For other models refer to ordering information below.

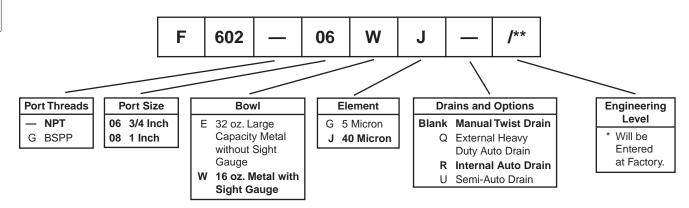
F602-08EJ

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

B C D E F 0 7.88 8.72 4.06 0.84 2.45 4) (200) (221) (103) (21) (62)					
F602-06E, F602-08E Filter Dimensions					
B 11.10 (282)	C 11.94 (303)	D 4.06 (103)	E 0.84 (21)	F 2.45 (62)	
	7.88 (200) F60 Fil B 11.10	7.88 8.72 (200) (221) F602-06E, Filter Din B C 11.10 11.94 (282) (303)	7.88 8.72 4.06 (200) (221) (103) F602-06E, F602- Filter Dimensio B C D 11.10 11.94 4.06 (282) (303) (103)	7.88 8.72 4.06 0.84 (200) (221) (103) (21) F602-06E, F602-08E Filter Dimensions B C D E 11.10 11.94 4.06 0.84 (282) (303) (103) (21)	

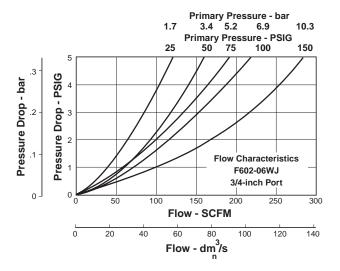
inches (mm)

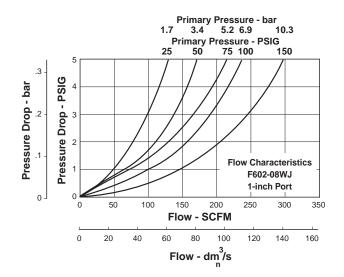
Ordering Information



C20

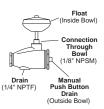






"Q" Option External Heavy Duty Auto Drain SA602D / SA603D

For heavy duty applications where the filter is being used to remove large volumes of liquid and/or particulate matter from the airstream, the external automatic drain ("Q" option) should be used.



F602 Filter Kits & Accessories

FUUZ FIILEI KILS & ACCESSUITES
Bowl Kits – Aluminum (E) 32 oz. BK603B Zinc with Sight Gauge (W) 16 oz. BK605WB
Drain Kits –
External Auto (E) 32 oz. SA603D External Auto (W) 16 oz. SA602D Internal Auto (All) SA602MD Manual (All) SA600Y7-1 Semi-Automatic "Overnight" Drain SA602A7 (Drains automatically under zero pressure)
Filter Element Kits –
40 Micron (All)
Mounting Bracket Kit (Pair or 2 Kits Pipe Mounted Brackets needed) – (3/4" Unit)SA200AW57
(1" Unit)
Repair Kits –
Deflector, Baffle Assembly, and Retaining Rod (E,W) RK602B External Auto Drain (All) RK602D Internal Auto Drain (All) RK602MD Metal Bowl with Sight Gauge (W) 16 oz RKB605WB
Specifications
Bowl Capacity –
Aluminum Bowl (E) 32 oz. 32 Ounces Zinc Bowl (W) 16 oz. 16 Ounces

......3/4, 1 Inch

Pressure & Temperature Ratings –

Aluminum Bowl (E) 32 oz. – 0 to 300 psig (0 to 20.4 bar) 40°F to 150°F (4.4°C to 65.6°C)

> Zinc (W) 16 oz. – 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)

With Internal Auto Drain (R) – 20 to 175 psig (1.4 to 11.9 bar) 40°F to 125°F (4.4°C to 52°C)

With External Auto Drain (Q) - 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)

Weight -

C21

Aluminum Bowl (E) 32 oz.	7 lb. (3.18 kg) / Unit
	28 lb. (12.70 kg) / 4-Unit Master Pack
Zinc Bowl (W) 16 oz	6.3 lb. (2.86 kg) / Unit
	25 lb. (11.34 kg) / 4-Unit Master Pack

Materials of Construction

Body	Zinc
Bowls -	
(E) 32 oz	Aluminum without Sight Gauge
(W) 16 oz	Zinc with Sight Gauge
Drain –	
Manual Twist & Overnight	Brass
Housing "R"	Acetal
Housing "Q"	Bronze
Filter Elements -	
40 Micron (Standard)	Polypropylene
5 Micron (Optional)	Polypropylene
Seals	Nitrile
Sight Gauge	Nylon



) = Bowl Type

Port Threads

Product Selection

Filters

Coalescers

Filter / Regulators

Lubricators | |

Combos

Accessories

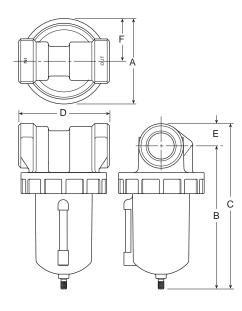
F602 Filters - Hi-Flow





Features

- · Excellent water removal efficiency
- For heavy duty applications with minimum pressure drop requirement.
- Unique deflector plate that creates 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 available.
- · Metal bowl with sight gauge standard.
- Twist drain as standard, optional auto drain.
- · Large bowl capacity.
- Optional high capacity bowl(s) available.
- High Flow: 1-1/4" 390 SCFM§ 1-1/2" – 450 SCFM§



Port	NI	PT	
Size	Twist Drain	Internal Auto Drain	
Metal Bowl / Sight Gauge - 16 oz.			
1-1/4"	F602-10WJ	F602-10WJR	
1-1/2"	F602-12WJ	F602-12WJR	
Metal Bowl without Sight Gauge - 32 oz.			
1-1/4"	F602-10EJ	F602-10EJR	
1-1/2"	F602-12F.I	F602-12F.IR	

F602-10W, F602-12W Filter Dimensions					
A 4.90 (124)	B 8.18 (208)	C 9.46 (240)	D 5.19 (132)	E 1.28 (32.4)	F 2.45 (62)
F602-10E, F602-12E Filter Dimensions					
A 4.90 (124)	B 11.41 (290)	C 12.69 (322)	D 5.19 (132)	E 1.28 (32.4)	F 2.45 (62)

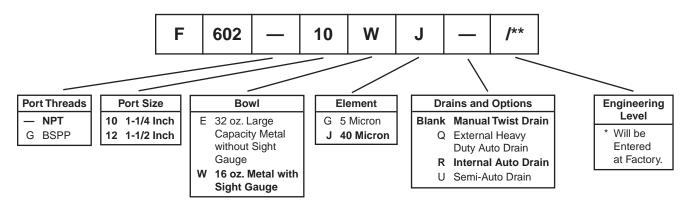
inches (mm)

Standard part numbers shown bold.

For other models refer to ordering information below.

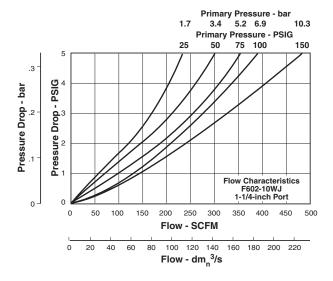
§ SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

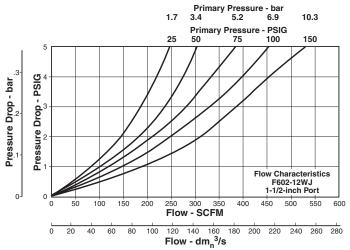
Ordering Information



C22

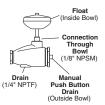






"Q" Option External Heavy Duty Auto Drain SA602D / SA603D

For heavy duty applications where the filter is being used to remove large volumes of liquid and/or particulate matter from the airstream, the external automatic drain ("Q" option) should be used.



F602 Filter Kits & Accessories

Bowl Kits – Aluminum (E) 32 oz. Zinc with Sight Gauge (W) 16 oz.	BK603B
Drain Kits –	
External Auto (E) 32 oz. External Auto (W) 16 oz. Internal Auto (All) Manual (All) Semi-Automatic "Overnight" Drain (Drains automatically under zero pressure)	SA602D SA602MD SA600Y7-1
Filter Element Kits –	
40 Micron (All) 5 Micron (All)	
Repair Kits – Deflector, Baffle Assembly, and Retaining Rod (All) . External Auto Drain (All)	RK602C RK602D RK602MD
Specifications	
Bowl Capacity – Aluminum (E) 32 oz. Zinc (W) 16 oz. Port Threads 1-	16 Ounces
	, =

Pressure & Temperature Ratings -

Aluminum Bowl (E) 32 oz. – 0 to 300 psig (0 to 20.4 bar) 40°F to 150°F (4.4°C to 65.6°C)

> Zinc (W) 16 oz. - 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)

With Internal Auto Drain (R) – 20 to 175 psig (1.4 to 11.9 bar) 40°F to 125°F (4.4°C to 52°C)

With External Auto Drain (Q) - 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)

W	eig	ht –

C23

Aluminum Bowl (E) 32 oz	7.7 lb. (3.49 kg) / Unit
	31 lb. (14.06 kg) / 4-Unit Master Pack
Zinc Bowl (W) 16 oz	7 lb. (3.18 kg) / Unit
	28 lb. (12.70 kg) / 4-Unit Master Pack

Materials of Construction

Body	Zinc
Bowls – (E) 32 oz	Sight Gauge Brass Acetal
Filter Elements – 40 Micron (Standard)	
Seals	Nitrile
Sight Gauge	Nylon



() = Bowl Type

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Filters

Coalescers

Regulators

Filter / Regulators Lubricators

Combos

Accessories

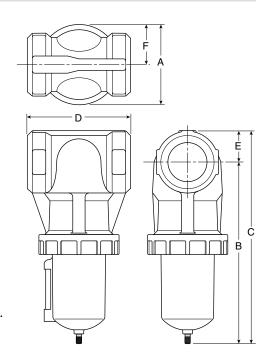
F602 Series

F602 Filters - Hi-Flow



Features

- Excellent water removal efficiency
- For heavy duty applications with minimum pressure drop requirement.
- Unique deflector plate that creates 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.
- · Metal bowl with sight gauge standard.
- Twist drain as standard, optional auto drain.
- · Large bowl capacity.
- · Optional high capacity bowl(s) available.
- High Flow: 2 & 2-1/2" 1200 SCFM§



1	
Port	
Size	Twist Drain

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Accessories

Port	NPT			
Size	Twist Drain	Internal Auto Drain		
Metal Bowl				
2"	F602-16WJ F602-16WJR			
2-1/2"	F602-20WJ	F602-20WJR		
Metal Bowl without Sight Gauge - 32 oz.				
2"	F602-16EJ F602-16EJR			
2-1/2"	F602-20EJ F602-20EJR			

Standard part numbers shown bold.

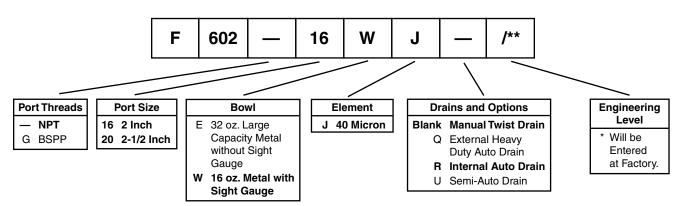
For other models refer to ordering information below.

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

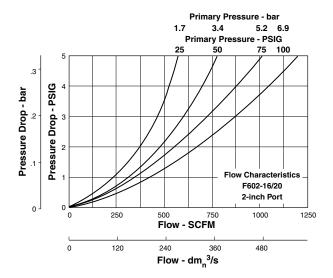
F602-16W, F602-20W Filter Dimensions							
A B C D E F 4.90 11.08 13.00 6.30 1.92 2.45 (124) (281) (330) (160) (48.7) (62)							
F602-16E, F602-20E Filter Dimensions							
A 4.90 (124)	B 14.31 (364)	C 16.23 (412)	D 6.30 (160)	E 1.92 (48.7)	F 2.45 (62)		

inches (mm)

Ordering Information

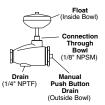






"Q" Option External Heavy Duty Auto Drain SA602D / SA603D

For heavy duty applications where the filter is being used to remove large volumes of liquid and/or particulate matter from the airstream, the external automatic drain ("Q" option) should be used.



F602 Filter Kits & Accessories

Bowl Kits – Aluminum (E) 32 oz. BK603B Zinc with Sight Gauge (W) 16 oz. BK605WB
Drain Kits –External Auto (E) 32 oz.SA603DExternal Auto (W) 16 oz.SA602DInternal Auto (All)SA602MDManual (All)SA600Y7-1Semi-Automatic "Overnight" DrainSA602A7(Drains automatically under zero pressure)
Filter Element Kits – 40 Micron (All)EK602G
Repair Kits – Deflector, Baffle Assembly, and Retaining Rod (All)
Specifications
Bowl Capacity – Aluminum (E) 32 oz

Pressure & Temperature Ratings -

Aluminum Bowl (E) 32 oz. - 0 to 300 psig (0 to 20.4 bar) 40°F to 150°F (4.4°C to 65.6°C)

> Zinc (W) 16 oz. - 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)

With Internal Auto Drain (R) - 20 to 175 psig (1.4 to 11.9 bar) 40°F to 125°F (4.4°C to 52°C)

With External Auto Drain (Q) - 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)

Weight -

C25

Aluminum Bowl (E) 32 oz.	10.3 lb. (4.67 kg) / Unit
	11 lb. (4.99 kg) / 1-Unit Master Pack
Zinc Bowl (W) 16 oz	9.8 lb. (4.45 kg) / Unit
	39 lb. (17.69 kg) / 4-Unit Master Pack

Materials of Construction

	^-·
Body	Aluminum
Bowls – (E) 32 oz	Zinc with Sight GaugeBrassAcetal
Filter Elements – 40 Micron (Standard)	Polypropylene
Seals	Buna N
Sight Gauge	Nylon



() = Bowl Type

35F, 43F Filters - Hi-Flow



Auto Drain

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories

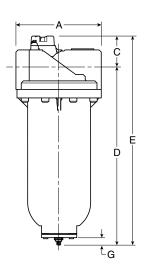
Features

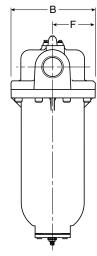
- Heavy-duty cast aluminum housings to withstand operating pressures up to 250 PSIG*
- · Differential pressure indicator to eliminate the guesswork of element replacement
- · Differential pressure gauge available, order separately, Kit DP3-01-000
- Unique drain mounting plate design offers a trouble-free method for interchanging and installing external drains
- High Flow: 1-1/2" 1280 SCFM§

2" - 1400 SCFM§

3" - 2900 SCFM§

Without Differential Pressure Indicator -Max. supply pressure is 250 PSIG (20.7 bar).





	Port	Element	Part number (NPT) Automatic drain	
	size	type		
35F	1-1/2	5 micron	35F77BAP	
JOF	2	5 micron	35F87BAP	
43F	3	5 micron	43FN7BAP	

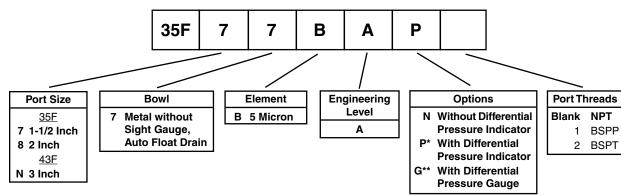
Standard part numbers shown bold.

For other models refer to ordering information below.

	35F Filter Dimensions						
A 7.80 (198)	B 7.75 (197)	C 2.81 (71)	D 16.24 (412.5)	E 19.07 (484)	F 3.88 (98.6)	G .55 (14)	
	43F Filter Dimensions						
Α	В	С	D	Е	F	G	
8.94 (227)	8.88 (225.5)	3.48 (88)	25.96 (659.4)	29.44 (748)	4.44 (112.8)	.55 (14)	

inches (mm)

Ordering Information

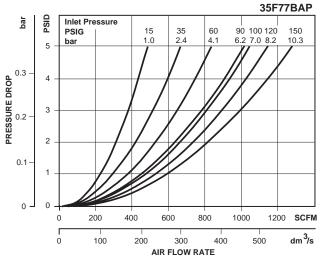


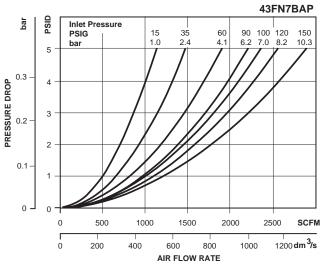
* Max. pressure rating 150 PSIG.



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

^{**} Gauge ships loose.





35F87BAP Inlet Pressure bar 90 100 120 150 PSIG 6.2 7.0 8.2 10.3 bar 1.0 2.4 5 0.3 PRESSURE DROP 0.2 0.1 0 1400 **SCFM** 0 200 400 600 800 1000 1200 dm^3/s 100 200 300 400 500 600 AIR FLOW RATE

35F & 43F Filter Kits & Accessories

Differential Pressure Indicator Cap –	
For pressures over 150 PSIG	GRP-95-022
Differential Pressure Gauge	DP3-01-000
Differential Pressure Indicator	DP2-02-001
Drain, Automatic, Internal, Fluorocarbon, 1/8 NPT	GRP-95-981
Drain Plate Kit – 1/2 NPT Tapped Drain Port	GRP-95-393
Element 35F, 5 Micron 43F, 5 Micron	
Manual Drain Kit with 1/2" Drain Plate	GRP-95-392
Specifications	

without DPI and with

Operating Temperature32° to 150°F (0° to 65.5°C)

Pressure Gauge......250 PSIG (17.2 bar)*

with DPI...... 150 PSIG (10.3 bar)

C27

Port Size – 35F43F	
Standard Filtration	5 Micron
Weight – 35F	
* Without pressure indicator	
Metaviele of Construction	

Materials of Construction

Plated Steel
Aluminum
Aluminum
Plated Steel
Plated Steel
Polyethylene
Fluorocarbon
Plated Steel



Maximum Supply

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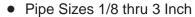
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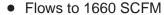




Air Line Coalescing Filters

Coalescing Filters







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
- 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
- High Flow F701 Series, 3/4 & 1 Inch
- Hi-Flow 35F Series, 1-1/2 and 2 Inch
- Hi-Flow 43F Series, 3 Inch
- P3TF Bulk Liquid Separators, 1/4 thru 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

G r a	Coalescing Efficiency	Maximum Oil Carryover ¹	Micron		Drop (PSID) ² @ ted Flow
d e	0.3 to 0.6 Micron Particles	PPM w/w	Rating	Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	0.01	1.0	2-3
10	95%	0.85	1.0	0.5	0.5

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

Element Selection

Element Grade	Applications
6 (.01 Micron)	General air coalescing applications when total removal of liquid aerosols and suspended fines is required in all pressure ranges. Protection of air dryers, air gauging, air logic, modulating systems, critical air conveying, most breathing air systems, etc.
10 (.7 Micron)	Precoalescer or prefilter for Grade 6 to remove gross amounts of water and oil, or tenacious aerosols which are difficult to remove. Upgrading existing particulate equipment to coalescing without increase in pressure drop.

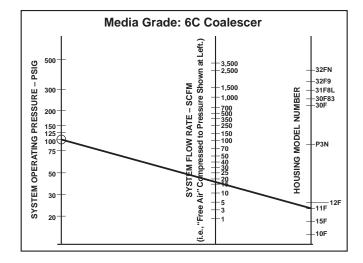
C28

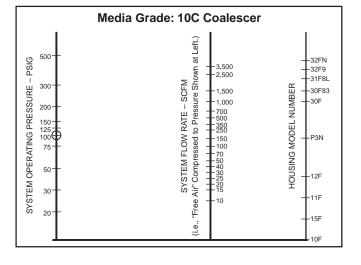
Prep-Air® II

Air Preparation Units

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.







D.O.P. = Dioctylphthalate

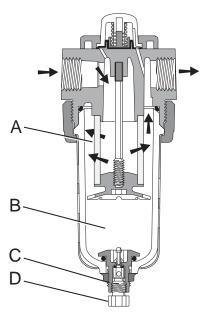
Specifically designed for the removal of solid particles, water and oil aerosols down to 0.01 micron. Maximum remaining oil content of air leaving the filter down to 0.01ppm at 70°F (21°C) at a pressure of 100 psig (6.9 bar) using a typical compressor lubricant. Two filter element grades are offered to better meet your air quality requirements.

Grade 10 filter elements are used for most air coalescing applications where the removal of liquid aerosols and submicronic particles for general air quality is required. Protection of components such as air valves, cylinders, as well as air conveyors, air gaging, air bearings, air control circuits and paint spraying equipment are examples of specific end-use applications. This grade of filter element should be used as a prefilter for the Grade C coalescing filter.

Grade 6 high-efficiency filter elements are used where the removal of extremely fine particulate and virtually "oil-free" or high quality air is necessary. Specific enduse applications are protection of critical air control circuits, air logic systems, flow and temperature controllers, food processing, electronics, health care and film processing.

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.



C

Product Selection

Filters

Coalescers

Regulators

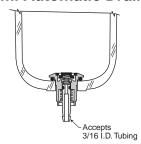
Filter / Regulators

Lubricators

Combos

Accessories

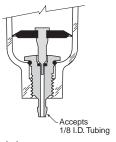
Semi Automatic Drain



(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.

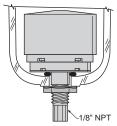
Automatic Pulse Drain



(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

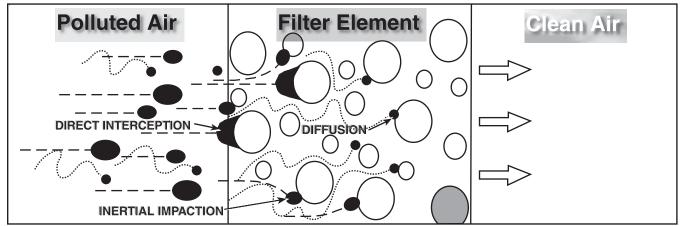


The float internal to this drain rises with increased liquid level. When the float rises, it opens a seat area allowing the trapped liquids to drain through the bottom.

A manual override can be pushed in the bottom of the drain to unseat the float if particulates create a block.



Filter Technology – Mechanisms of Filtration



Coalescing Filters

Filters

Regulators

Filter / Regulators

Accessories

Essentially, coalescing filters Grade 10 (.7 micron) & 6 (.01 micron), rely on what is known as mechanical filtration for their effectiveness. The main mechanisms of mechanical filtration are direct interception, inertial impaction and diffusion. Electrostatic attraction can have some bearing although the efficiency of coalescing filters is not dependent on this mechanism.

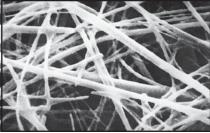


Direct Interception occurs when a particle collides with and adheres to a fiber of the filter material without deviating out of the streamline flow. This mechanism tends to take place on the surface of the filter material and affects mainly larger particles over 1 micron in size.

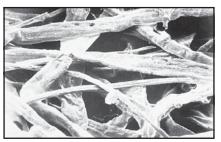


Inertial Impaction occurs when a particle is unable to follow the tortuous path around the filter fibers and eventually collides with and adheres to one of the fibers. Typically affecting particles in the 0.3 micron -1 micron size range.

Diffusion or Brownian Movement, as it is sometimes called, occurs with extremely small particles which tend to wander within the gas stream, increasing their chances of colliding with and adhering to a fiber. This usually affects particles below 0.3 micron in size. A degree of overlap takes place with the mechanisms, the extent varying on the conditions.

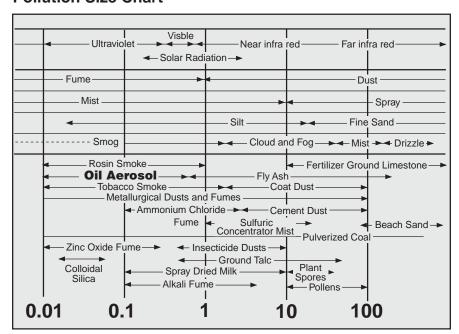


Above: Clean borosilicate microfiber seen at a magnification factor of 3900. Right: The same filter material in a contaminated state at the same degree of magnification.



When all mechanisms are combined and utilized by a deep bed of the correct type of filter material, removal of virtually all particles whether liquid or solid, is achieved.

Pollution Size Chart



To assist in understanding the parameters of filtration, refer to this pollution size comparison chart. Look at the size of a major contaminant, oil aerosol! It is in the region of 0.01 - 0.8 micron. Tobacco smoke is also a liquid aerosol in a similar size band 0.01 -1.2 micron. Observe the smoke test yourself, appreciate the size of the problem! The smallest particle the human eye can see is in the order of 40 microns.



02F Coalescing Filters - Miniature



Features

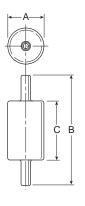
- · Clear nylon housing.
- Full length support tube.
- · Positive tube seals.
- · Optional filter grades available.
- · Disposable.
- High Flow: Grade 6 3.5 SCFM§ Grade 10 - 5.3 SCFM§

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
	02FA06A	Grade 6
1/4" I.D.	02FA10A	Grade 10
1.0.	02FA22A	Grade 6 (oil activated dye)

[§] SCFM @ 1 PSID Operating Pressure 100 psig.

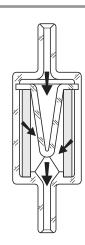


02F Coalescing Filter Dimensions			
A B C			
1.00	3.28	1.69	
(25) (83) (43)			

Inches (mm)

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.



Specifications

Port Size1/4 I.D. Hose Slip On Tang Standard Pressure & Temperature Ratings -

100 psig at 125°F (0.69 bar at 52°C) or less

02F Α 06 Α Port Size **Elements** Engineering Level Grade 6 A Standard

oil activated dye

10 Grade 10 22 Grade 6

Materials of Construction

C31

A Current

Element Borosilicate & Felt Glass Fibers HousingNylon

Ordering Information

10F Coalescing Filters - Miniature

•

Features

• Removes liquid aerosols and sub-micron particles.

• Liquids gravitate to the bottom of the element and will not re-enter the airstream.

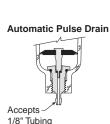
 Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.

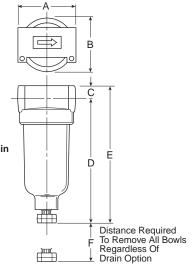
• Interchangeable twist and automatic pulse drains.

Grade 6 element,
 99.97% DOP efficiency.

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

Grade 10 Element 1/8" – 19 SCFM§ 1/4" – 24 SCFM§





Port	NPT			
Size	Twist Drain	Automatic Pulse Drain		
Poly Bowl ‡				
1/8"	10F01E*	10F05E*		
1/4"	10F11E*	10F15E*		
Metal Bowl without Sight Gauge				
1/8"	10F03E*	10F07E*		
1/4"	10F13E*	10F17E*		

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

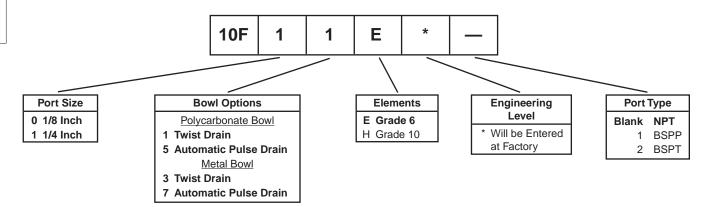
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

10F Coalescing Filter Dimensions				
A 1.69 (43)	B 1.56 (39,6)	C 0.39 (10)		
D 3.82 (97)	D † 3.67 (93)	E 4.21 (107)		
E † 4.06 (103)	F 1.60 (41)			

Inches (mm)

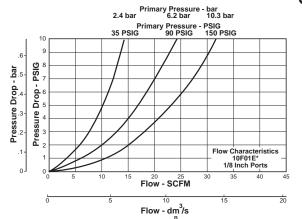
† With Automatic Pulse Drain.

Ordering Information

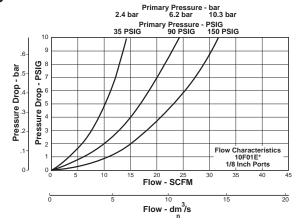


C32

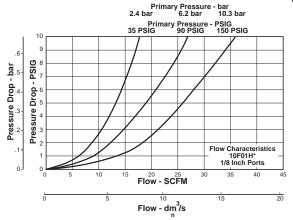


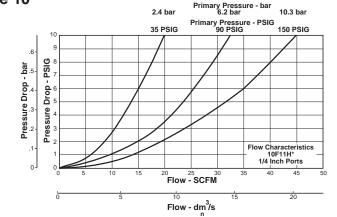


Grade 6



Grade 10





10F Coalescing Filter Kits & Accessories

Bowl Kits –	
Poly Bowl - Automatic Pulse Drain	. PS408BP
Twist Drain	PS404P
Metal Bowl - Automatic Pulse Drain	PS451BP
Twist Drain	PS447BP
Filter Element Kits - Grade 6 (Standard)	PS446P
Grade 10 (Optional)	PS456P
Mounting Bracket KitPS417	

Materials of Construction

BodyZinc		
Bowls Transparent Polycarbonate		
Metal (Zinc) Without Sight Gauge		
Drains – Twist Drain –		
Body & Stem Plastic		
SealsNitrile		
Automatic Pulse Drain –		
Piston & SealsNitrile		
Stem, Seat, Adaptor & WashersAluminum		
Element Holder Plastic		
Filter Element –		
Borosilicate & felt glass fibers 99.97% DOP efficiency		
Largest Aerosol Particle Passed (Grade 6) 0.01 Micron		
Largest Solid Particle Passed (Grade 6)		

Specifications
Automatic Pulse Drain Tube Barb1/8 Inch
Bowl Capacity 1 Ounce
Operation –
Normal Operating Pressure Drop
Port Threads
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
Automatic Pulse Drain10 to 250 psig (0.7 to 17.2 bar)

Weight 0.41 lb. (0.18 kg)

at 125°F (52°C) or less

C33

Economy 15F Series

15F Coalescing Filters – Economy



Coalescers

Regulators

Filter / Regulators

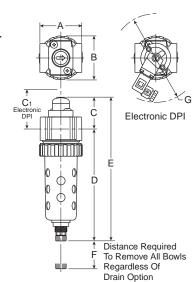
Accessories

Features

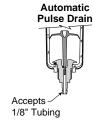
- · Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.

(Revised 08-09-11)

- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic pulse drains.
- Differential pressure indicator standard.



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



15F Coalescing Filter Dimensions		
A 2.00 (51)	B 2.06 (52)	C 1.50 (38)
C ₁ 1.86 (47)	D † 5.35 (136)	E [†] 6.85 (174)
F 1.77 (45)	G Dia. 4.50 (114)	

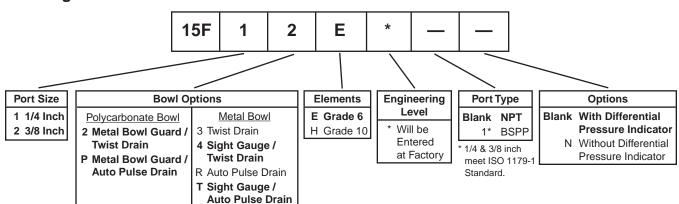
Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "E" with "H" in the 6th position). For other models refer to ordering information below.

- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

Inches (mm)

† With Twist Drain or Automatic Float Drain

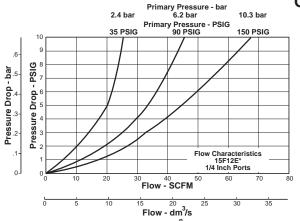
Ordering Information



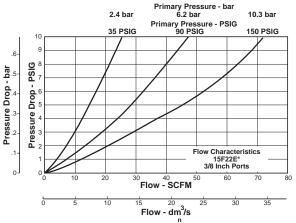


Coalescing Filters (Oil Removal)

Technical Information

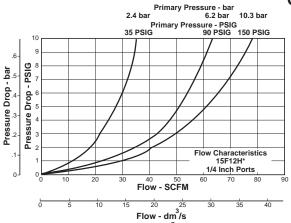


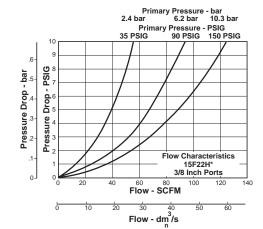
Grade 6



Grade 10

C35





15F Coalescing Filter Kits & Accessories

Bowl Guard KitPS905		
Bowl Kits -		
Poly Bowl –	Automatic Pulse Drain Twist Drain	
Metal Bowl –	Automatic Pulse Drain Twist Drain Sight Gauge / Automatic Pulse Drain Sight Gauge / Twist Drain	PS934P PS996P
DPI Replaceme	ent Kit	PS781P
Electronic DPI	Replacement Kit	PS764
	Automatic Pulse Drain	PS511P PS512P
Electrical Con	nector - 15mm, 3-Pin DIN, 6 Ft. CordF	S2932JBP
Filter Element	Kits - Grade 6 (Standard)Grade 10 (Optional)	
Mounting Brac	ket Kit	PS943P
Sight Gauge K	it	PS914P

 Sump Capacity
 0.9 Ounce

 Port Threads
 1/4, 3/8 Inch

Pressure & Temperature Ratings -

Without Differential Pressure Indicator:

Polycarbonate Bowl – 0 to 150 psig (0 to 10.3 bar) 32°F to 125°F (0°C to 52°C)

Metal Bowl – 0 to 250 psig (0 to 17.2 bar)

32°F to 175°F (0°C to 80°C) or: 0 to 150 psig (0 to 10.3 bar)

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

Weight 1.2 lb. (0.54 kg)

Materials of Construction

Body	Zinc
BowlsTrans	parent Polycarbonate
Metal (Zinc)	Without Sight Gauge
Bowl Guards	Steel
Collar	Plastic
Drain	Plastic
Filter Element –	
Borosilicate & felt glass fibers 99.97% DOP	efficiency
Largest Aerosol Particle Passed (Grade 6) .	0.01 Micron
Largest Solid Particle Passed (Grade 6)	0.30 Micron
Seals	Nitrile
Sight Gauge, DPI	Polyamide (Nylon)



Specifications

Compact 11F Series

11F Coalescing Filters – Compact



Regulators

Filter / Regulators

Accessories

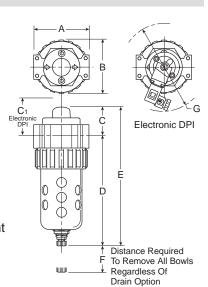
Features

- Removes liquid aerosols and sub-micron particles.
- · Liquids gravitate to the bottom of the element and will not re-enter the airstream.

(Revised 08-09-11)

- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic float drains.
- · Differential pressure indicator standard.
- Shown with recommended metal bowl guard.

 High Flow: Grade 6 Element Grade 10 Element 1/4" - 45 SCFM§ 1/4" - 60 SCFM§ 3/8" - 48 SCFM§ 3/8" - 72 SCFM§ 1/2" - 65 SCFM§ 1/2" - 95 SCFM§



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

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

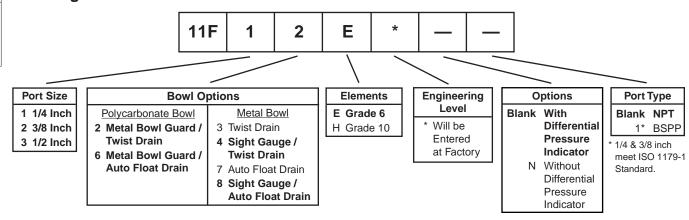
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

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

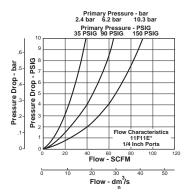
Ordering Information

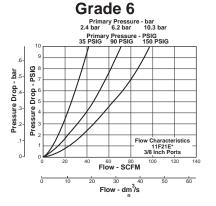


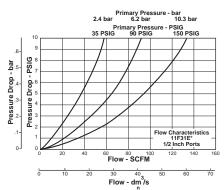


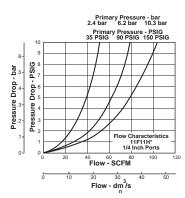
Coalescing Filters (Oil Removal)

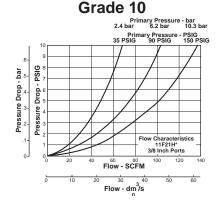
Technical Information

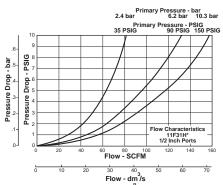












11F Coalescing Filter Kits & Accessories

Bowl Guard	KitPS705P
Bowl Kits -	
Poly Bowl -	- Automatic Float DrainPS722P
	Twist DrainPS732P
Metal Bowl	- Automatic Float DrainPS726P
	Twist DrainPS734P
	Sight Gauge / Automatic Float DrainPS723P
	Sight Gauge / Twist DrainPS735P
DPI Replace	ment KitPS781P
Electronic D	PI Replacement Kit PS764
Drain Kits -	Automatic Float DrainPS506P
	Semi-Auto DrainPS511P
	Twist DrainPS512P
	Push 'N' DrainPS513P
Electrical Co	nnector - 15mm, 3-Pin DIN, 6 Ft. CordPS2932JBP
Filter Elemen	nt Kits - Grade 6 (Standard)PS724P
	Grade 10 (Optional)PS730P
Mounting Br	acket KitPS743P
Sight Gauge	Kit
Specifica	tions
Bowl Capaci	ty4.4 Ounces
Sump Capac	ity1.75 Ounces
	Normal Operating Pressure Drop2 psig
Operation	Maximum Recommended Pressure Drop10 psig
	(Element should be replaced)
	Minimum Recommended Flow –
	20% Nominal Rating of Element
Port Threads	31/4, 3/8, 1/2 Inch

Pressure & Temperature Ratings -

Without Differential Pressure Indicator:

Polycarbonate Bowl - 0 to 150 psig (0 to 10.3 bar) 32°F to 125°F (0°C to 52°C)

> Metal Bowl - 0 to 250 psig (0 to 17.2 bar) 32°F to 175°F (0°C to 80°C)

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

Automatic Float Drain - 15 to 250 psig (1.0 to 17.2 bar)

Materials of Construction

Body	∠Inc
Bowls	Transparent Polycarbonate
	Metal (Zinc) With or Without Sight Gauge
Bowl Guard	Steel
Collar	Plastic
Drains - Twist Drain - Bo	ody & Nut Plastic
Push 'N' Drain –	- BodyNitrile
	StemBrass
Automatic Float	DrainHousing, Float Plastic SealsNitrile
	Springs, Push RodStainless Steel
Filter Element –	

C37

Sight Gauge Poly	amide
Seals	.Nitrile
Largest Solid Particle Passed (Grade 6)0.30 M	Micron
Largest Aerosol Particle Passed (Grade 6) 0.01 M	Micron
Borosilicate & felt glass fibers 99.97% DOP efficiency	



12F Coalescing Filters – Standard



Coalescers

Regulators

Filter / Regulators

Combos

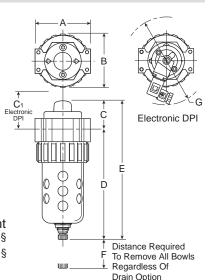
Accessories

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.

(Revised 08-09-11)

- Interchangeable twist and automatic float drains.
- Differential pressure indicator standard.
- Shown with recommended metal bowl guard.
- High Flow: Grade 6 Element Grade 10 Element 1/2" - 75 SCFM§ 1/2" - 125 SCFM§ 3/4" - 80 SCFM\\$ 3/4" - 160 SCFM\\$



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

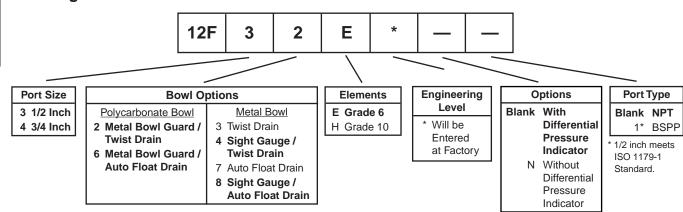
Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "E" with "H" in the 6th position). For other models refer to ordering information below.

- [‡] For polycarbonate bowl see Caution on page C2.
- § 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)
C ₁ 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)

Ordering Information

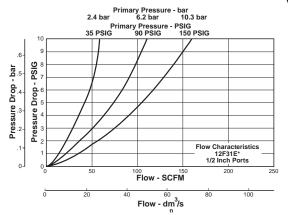




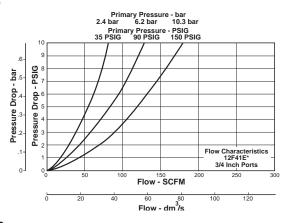
[†] With Automatic Float Drain

Technical Specifications – 12F

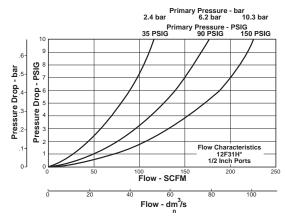
Technical Information

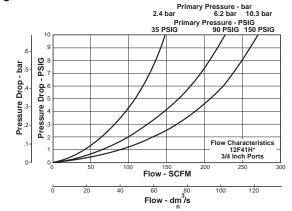


Grade 6



Grade 10





12F Coalescing Filter Kits & Accessories

	soling i liter Mits & Accessories
Bowl Guard I	Kit PS805P
Bowl Kits -	
Poly Bowl -	- Automatic Float Drain PS822P
	Twist DrainPS832P
Metal Bowl	-Automatic Float Drain PS826P
	Twist DrainPS834P
	Sight Gauge / Automatic Float Drain PS823P
	Sight Gauge / Twist DrainPS835P
DPI Replacer	ment KitPS781P
Electronic DI	PI Replacement KitPS764
Drain Kits -	Automatic Float DrainPS506P
	Semi-Auto DrainPS511P
	Twist DrainPS512P
	Push 'N' DrainPS513P
Electrical Co	nnector - 15mm, 3-Pin DIN, 6 Ft. Cord PS2932JBP
Filter Elemen	nt Kits - Grade 6 (Standard)PS824P
	Grade 10 (Optional)PS830P
Mounting Bra	acket KitPS843P
Sight Gauge	Kit PS914P
Specificat	tions
•	ty
•	ity
Operation – I	Normal Operating Pressure Drop2 psig
·	Maximum Recommended Pressure Drop10 psig (Element should be replaced)
	Minimum Recommended Flow – 20% Nominal Rating of Element
Port Threads	3 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)

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 - Bo	ody & NutPlastic
Push 'N' Drain –	BodyNitrile StemBrass
Automatic Float	Drain –Housing, Float Plastic SealsNitrile Springs, Push RodStainless Steel
Filter Element –	

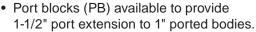
20.00outo a rest glace insere coner /o 2 or conere	
Largest Aerosol Particle Passed (Grade 6)	0.01 Micron
Largest Solid Particle Passed (Grade 6)	0.30 Micron
Seals	Nitrile
Sight Gauge	Polyamide

Borosilicate & felt glass fibers 99.97% DOP efficiency



P3NF Coalescing Filters – Hi-Flow

Features



- 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§

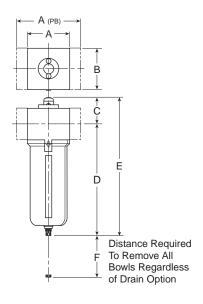
1-1/2"† - 150 SCFM§

Grade 10 Element

3/4" - 195 SCFM§

1" - 215 SCFM§

1-1/2"† - 225 SCFM§



Port	NPT		
Size	Twist Drain	Automatic Float Drain	
Metal Bowl	/ Sight Gauge		
3/4"	P3NFA96DSM	P3NFA96DSA	
1"	P3NFA98DSM	P3NFA98DSA	
1-1/2"†	P3NFA9PDSM	P3NFA9PDSA	

Standard part numbers shown bold for 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.

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

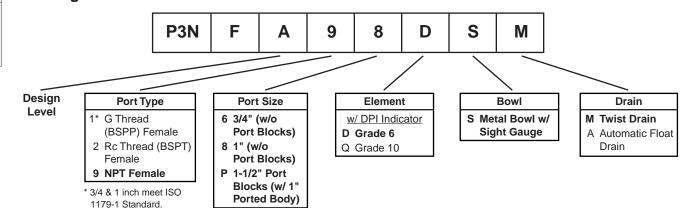
Accessories

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

	F Coales Dimens	-
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)

Ordering Information



C40

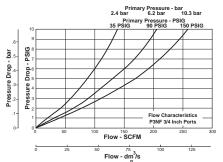


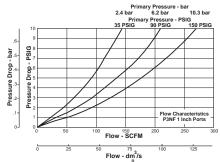
[†] With Twist Drain or Automatic Float Drain

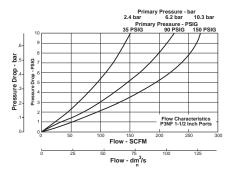
P3NF Series Coalescing Filters (Oil Removal)

Technical Information

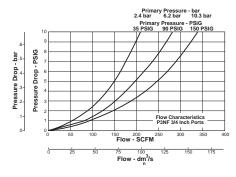
Grade 6

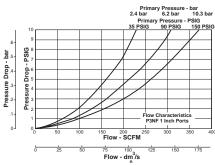


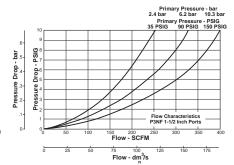




Grade 10







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 D	Orain	PS506P
Semi-Auto Drain.		PS511P
Twist Drain		PS512P
Push 'N' Drain		PS513P
Filter Elements -	Grade 6 (Standard)	P3NKA00ESCB
	Grade 10 (Optional)	P3NKA00ES9
Sight Gauge Kit		P3NKA00PE
Mounting Bracket	Kit*	P3NKA00MW

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

Specifications

Bowl Capacity16.0 Ounces
Sump Capacity
Filter Element –
Borosilicate & felt glass fibers 99.97% DOP efficiency
Largest Aerosol Particle Passed (Grade 6) 0.01 Micron
Largest Solid Particle Passed (Grade 6)0.30 Micron
Pressure & Temperature Rating – 0 to 250 psig (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)

$\label{eq:AutomaticFloatDrain-15 to 250 psig (1.0 to 17.2 bar)} \\ \textbf{Materials of Construction}$

Body & Bo	wl	Aluminum
Deflector		Plastic
Drain		Plastic
Seals		Nitrile
Sight Gaug	e	Polyamide (Nylon)
Weight - 3	/4"	3.5 lb. (1.6 kg)
Weight - 3		3.5 lb. (1.6 kg)

^{† 1&}quot; Port Body with 1-1/2" Port Block.



Product Selection

Filters

Coalescers

Regulators

Filter / equlators

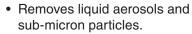
Lubricators

Combos



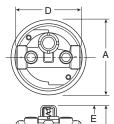
F701 Coalescing Filters

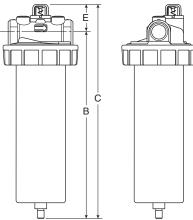
Features



- Protects pneumatic systems from contamination that standard particulate filters will not catch.
- · Two different grade elements available.
- Differential pressure indicator (pop-up) standard.
- · Differential pressure gauge optional.
- · High flow design.

Note: All coalescing filters should be protected by a particulate filter (i.e., F602, or other) installed upstream.





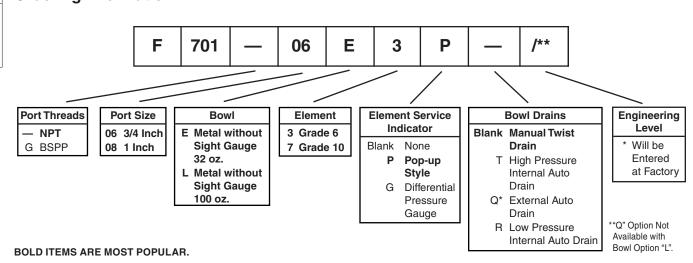
	Grade 6		Gı	rade 10
Port Size	Flow (SCFM)*	Part Number	Flow (SCFM)*	Part Number
Metal B	owl 32 oz.			
3/4"	95	F701-06E3P	158	F701-06E7P
1"	95	F701-08E3P	158	F701-08E7P
Metal B	owl 100 oz.			
3/4"	170	F701-06L3P	285	F701-06L7P
1"	170	F701-08L3P	285	F701-08L7P
* Dry media flow. For wet media info see table on next page.				

F701 Coalescing Filter Dimensions						
Port Size	Bowl Capacity	Α	В	С	D	E
3/4 & 1 Inch (E)	32 oz.	4.95 (126)	11.77 (299)	13 (330)	4.00 (101)	1.23 (31)
3/4 & 1 Inch (L)	100 oz.	4.95 (126)	21.39 (543)	22.63 (575)	4.00 (101)	1.23 (31)

[&]quot;G" Differential Pressure Gauge add 2.00 (50.8) to C & E.

inches (mm)

Ordering Information





C42

[&]quot;Q" External Auto Drain add 1.70 (43.1) to B & C.

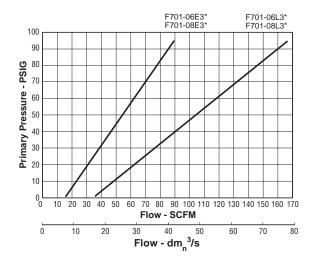
Coalescing Filters (Oil Removal)

Technical Information

Media Specifications

G r a	D.O.P. Coalescing Efficiency	Maximum Oil Carryover ¹	Pressure Drop (PSID) ² @ Rated Flow	
d e	0.3 to 0.6 Micron Particles	PPM w/w	Media Dry	Media Wet With 10-20 wt. oil
6	99.97%	0.008	1.0	2-3
10	95%	0.85	0.5	0.5

¹ Tested per BCAS 860900 at 40 ppm inlet.



F701 Filter Kits & Accessories

Mounting Bracket – Port Size	
3/4 (Pair of Pipe Mounted Brackets)	
Bowl Kit – Port Size	
3/4, 1 Inch (E) 32 oz	BK603B
3/4, 1 Inch (L) 100 oz	BK603C
Differential Pressure Pop Up Indicator Repair Kit (only works with originally equipped units)	RK701P
Only works on units without pop-up indicator)	DP276-P
Drain Kits –	
Internal Automatic Drain - High Pressure (T)	
Filter Element Kits –	
Port Size / Grade 6	
3/4, 1 Inch (E) 32 ozF	701-C3-0773
3/4, 1 Inch (L) 100 ozF	701-C3-0774
Port Size / Grade 10	
3/4, 1 Inch (E) 32 ozF	701-C7-0773
3/4, 1 Inch (L) 100 ozF	

	Minimum Recommended Flow – 20% of Rated Flow
ı	Maximum Pressure (Manual Drains) – 0 to 300 psig (0-20 bar)
	Maximum Pressure (Auto Drains) –"R" Drain (Low Pressure Internal)
	Maximum Temperature 32°F to 150°F (0°C to 65°C) Maximum temperature with "T", "R", or "Q" Drains 125°F (52°C)
ı	Weight – 3/4 & 1 Inch (E) 32 oz.
ı	Materials of Construction
ı	Body & Flange RingZinc
ı	Bowl –

Specifications

Operation –	
Maximum Recommended Pressure Drop	10 psig
(element should be replaced)	
Normal Operating Pressure Drop (Dry)	2 neia

Normal Operating Pressure Drop (Wet)5 psig

C43

) = Bowl Type



Filters

Coalescers Regulators

Lubricators

Combos

² Add dry + wet for total pressure drop.

D.O.P. = Dioctylphthalate

35F, 43F Coalescing Filters – Hi-Flow

Features



Coalescers

Regulators Filter/ Regulators

Lubricators

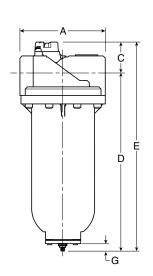
· Heavy-duty cast aluminum housings to withstand operating pressures up Auto Drain to 250 PSIG*

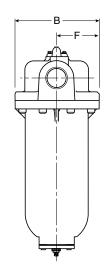
- · Differential pressure indicator to eliminate the guesswork of element replacement
- · Differential pressure gauge available, order separately, Kit DP3-01-000
- Unique drain mounting plate design offers a trouble-free method for interchanging and installing external drains
- · High-flow Filter Elements: Coalescing, 1 Micron and 0.01 Micron
- High Flow: 1-1/2" 710 SCFM§

2" - 710 SCFM§

3" - 1770 SCFM§

^{*} Without Differential Pressure Indicator -Max. supply pressure is 250 PSIG (20.7 bar).





	Port	Element	Part number (NPT)
	size	type	Automatic drain
	1-1/2	0.01 micron	35F77EAP
35F	1-1/2	1.0 micron	35 F 77HAP
	1-1/2	Adsorber	35F77ZAP
	2	0.01 micron	35F87EAP
	2	1.0 micron	35F87HAP
	2	Adsorber	35F87ZAP
	3	0.01 micron	43FN7EAP
43F	3	1.0 micron	43FN7HAP
	3	Adsorber	43FN7ZAP

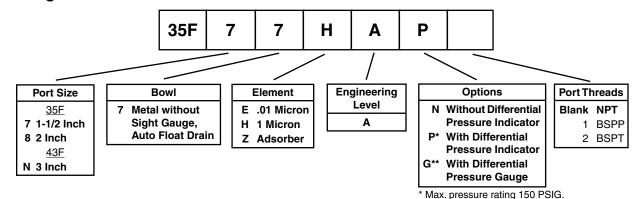
35F Coalescing Filter Dimensions								
A 7.80 (198)	7.80 7.76 2.83 16.24 19.07 3.88 .55							
(100)	43F Coalescing Filter Dimensions							
A 8.94	В	C 3.48	D 25.96	E 29.44	F 4.44	G .55		

inches (mm)

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

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

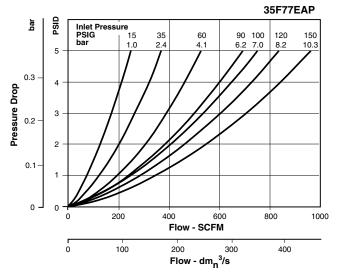
Ordering Information

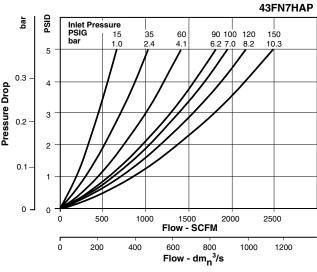


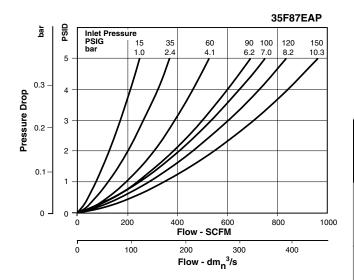
BOLD ITEMS ARE MOST POPULAR.



** Gauge ships loose.







35F & 43F Coalescing Filter Kits & Accessories

Differential Pressure Indicator Cap – For pressures over 150 PSIG	GRP-95-022
Differential Pressure Gauge	DP3-01-000
Differential Pressure Indicator	DP2-02-001
Drain, Automatic, Internal, Fluorocarbon, 1/8 NPT	GRP-95-981
Drain Plate Kit – 1/2 NPT Tapped Drain Port	GRP-95-393
Element 35F: 0.01 Micron	MSP-95-502 MXP-95-502 MTP-95-562 MSP-95-876
Manual Drain Kit with 1/2" Drain Plate	GRP-95-392

Specifications

Maximum Supply Pressure	without DPI and with Pressure Gauge250 PSIG (17.2 bar)* with DPI150 PSIG (10.3 bar)
Operating Temperate	ure32° to 150°F (0° to 65.5°C)
	1-1/2, 2 Inch
Standard Filtration*	- Micron 1.0, 0.01 AdsorberActivated carbon
Weight –	35F
* Filtration temperature	of 70°F (21°C) @100 PSIG (6.9 bar) with typical

Materials of Construction

Body		Aluminum
Bowls		Aluminum
Filter Element –	0.01 & 1.0 Micron Adsorber	Borosilicate Cloth Activated Carbon
Seals		Fluorocarbon
Stud		Plated Steel

compressor lubricating oil and protected by 0.01 micron filter.



Produ Selecti

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Compos

Bulk Liquid Separators - P3TF

Moduflex

P3TFA98WEAN

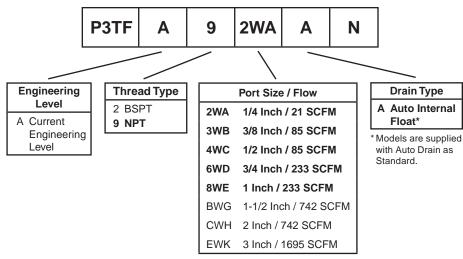
Features

- Tested in Accordance with ISO 8573.9.
- · High Liquid Removal Efficiencies at All Flow Conditions.
- Low Pressure Losses for Low Operational Costs.
- Multiple Port Sizes for a Given Flow Rate Provides Increased Flexibility During Installation.
- Suitable for Variable Flow Compressors.
- Works with All Types of Compressor and Compressor Condensate.
- Low Maintenance.
- Lightweight Cast Aluminum Housing with 1/4" to 3" Ports.
- External Surface Epoxy Painted for Maximum Corrosion Resistance.

Applications

- Bulk Liquid Removal at Any Point in a Compressed Air System
- Protection of Refrigeration and Heatless Regenerative Desiccant Dryers
- Liquid Removal from Compressor Inter-coolers / After-coolers
- · Liquid Separation Within Refrigeration Dryers
- · Pre-Filtration

Ordering Information



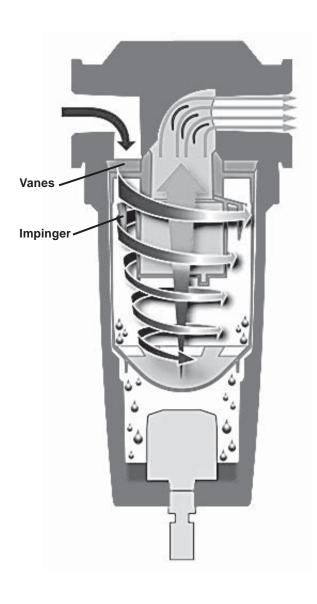
C46

BOLD ITEMS ARE MOST POPULAR.



C

Bulk Liquid Separators P3TF Series



Operation

- Air Enters the Bulk Liquid Separator Inlet and Turns Into the Separator Module.
- The Inlet of the Separator Module Contains a Set of Fixed Vanes Which the Air Must Pass Through.
- The Vanes Force the Air to Spin Inside the Vessel.
- The Spinning Air is Then Forced to Change Direction as it Passes the Impinger.
- A Vortex is Created Which, Due to the Design of the Separator Module, Narrows and Intensifies as it Reaches the Lower Part of the Separator Module.
- Bulk Liquid is Removed From the Airstream Due to:
 - Directional Changes of the Airstream
 - Velocity Changes
 - Centrifugal Action of the Vortex
- As the Vortex Reaches the Bottom of the Module, Air is Forced Through The Center of the Vortex.
- Aerospace Turning Vanes, Located in the Outlet of the Separator Module, Turn an Inefficient Corner Into a Number of More Efficient Corners.
- Turning Vanes Reduce Turbulence, Minimizing Pressure Loss and Cost of Ownership.
- The Number of Vanes Required is Dependent Upon the Conduit Diameter.



Bulk Liquid Separators – P3TF

Specifications

Pressure Differential at Rated Flow..... 1.0 PSID (0.07 bar)

Model Number	Pipe Size	SCFM (L/s)	Maximum Operating Pressure psig (bar)	Operating Temperature	Weight Lb. (kg)
P3TFA92WAAN	1/4"	21 (10)		Maximum 176°F (80°C) Minimum 35°F (1.5°C)	0.9 (0.4)
P3TFA93WBAN	3/8"	85 (40)			2.2 (1.0)
P3TFA94WCAN	1/2"	85 (40)			2.2 (1.0)
P3TFA96WDAN	3/4"	233 (110)	232 (16)		4.8 (2.2)
P3TFA98WEAN	1	233 (110)	202 (10)		2.6 (5.7)
P3TFA9BWGAN	1-1/2"	742 (350)			5.3 (11.6)
P3TFA9CWHAN	2"	742 (350)			5.3 (11.6)
P3TFA9EWKAN	3"	1695 (800)			12.0 (26.4)

Stated flows are for operation at 102 psig (7 bar) with reference to 20°C, 1 bar (a), 0% relative water vapor pressure.

Flow

Coalescers

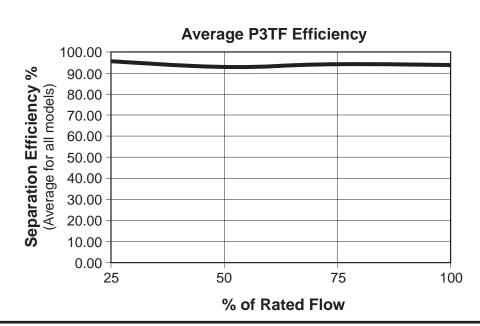
Regulators

Filter / Regulators

Lubricators

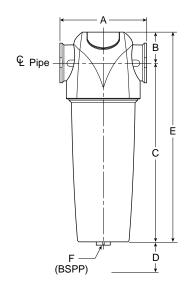
Combos

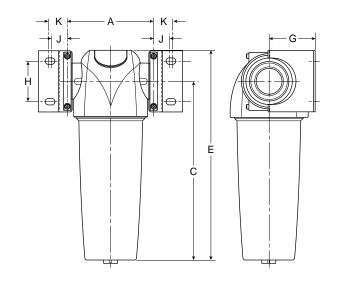
Accessories



C48

Bulk Liquid Separators





Dimensions

Model Number	Wall Mounting Bracket Kit	Pipe Size	Α	В	С	D	E	BSPP F	G	Н	J	к
P3TFA92WAAN	P3TKA00MWA	1/4"	3.00 (76)	1.12 (28.5)	6.02 (153)	1.58 (40)	7.15 (181.5)	1/2	2.05 (50)	1.18 (30)	0.71 (18)	0.96 (24.5)
P3TFA93WBAN	P3TKA00MWB	3/8"	3.83 (97.5)	1.34 (34)	7.91 (201)	1.97 (50)	9.25 (235)	1/2	2.36 (60)	1.57 (40)	0.81 (20.5)	1.00 (25.5)
P3TFA94WCAN	P3TKA00MWB	1/2"	3.83 (97.5)	1.34 (34)	7.91 (201)	1.97 (50)	9.25 (235)	1/2	2.36 (60)	1.57 (40)	0.81 (20.5)	1.00 (25.5)
P3TFA96WDAN	P3TKA00MWD	3/4"	5.07 (129)	1.67 (42.5)	13.09 (232.5)	2.76 (70)	10.80 (275)	1/2	2.68 (68)	2.36 (60)	0.91 (23)	1.10 (28)
P3TFA98WEAN	P3TKA00MWD	1	5.07 (129)	1.67 (42.5)	12.68 (322)	2.76 (70)	14.35 (364.5)	1/2	2.68 (68)	2.36 (60)	0.91 (23)	1.10 (28)
P3TFA9BWGAN	P3TKA00MWF	1-1/2"	6.70 (170)	1.97 (50)	18.68 (474.5)	3.94 (100)	20.64 (524.5)	1/2	3.62 (92)	3.31 (84)	1.26 (32)	1.54 (39)
P3TFA9CWHAN	P3TKA00MWF	2"	6.70 (170)	1.97 (50)	18.68 (474.5)	3.94 (100)	20.64 (524.5)	1/2	3.62 (92)	3.31 (84)	1.26 (32)	1.54 (39)
P3TFA9EWKAN	P3TKA00MWJ	3"	8.07 (205)	2.36 (60)	30.39 (772)	4.72 (120)	32.76 (832)	1/2	5.31 (135)	3.94 (100)	1.40 (35.5)	1.67 (42.5)

C49

Inches (mm)

Bulk Liquid Separator Kits & Accessories

Materials of Construction

Automatic Float Drain	Plastic
Housing / Bowl	Aluminum
Seals	Fluorocarbon

For External Drains, please reference WDV3-G **Automatic Electrical Drain or ED Zero Loss Drain**



Wall Mounting Bracket Kit
Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.



Regulators

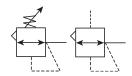
Lubricators

Combos

Regulators

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
- Miniature R34 Series, 1/8 and 1/4 Inch
- Miniature R25 Series, 1/4 and 3/8 Inch
- Miniature R45 Series, 1/4 and 3/8 Inch
- Economy 15R Series, 1/4 and 3/8 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
- Standard R119 Series, 1/4, 3/8 and 1/2 Inch
- Hi-Flow R119 Series, 3/4 thru 2 Inch
- Hi-Flow 09R Series, 2 Inch
- Pilot Operated 10R, 11R, 12R, P3NR Series, 1/4 thru 1-1/2 Inch; R119 Series 1/4 thru 2-1/2 Inch

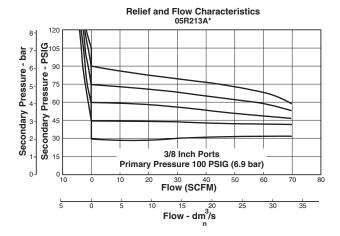
Miniature Regulators for Water Service

- Miniature R24 Series, 1/4 and 3/8 Inch
- Miniature R46 Series, 1/4 and 3/8 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.
- Refer to flow chart and select regulator by choosing the curve that offers minimum pressure drop at desired flow in SCFM.

Reading Flow Charts to Size Regulators



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

↑ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

CAUTION:

C50

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to

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

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

Filters

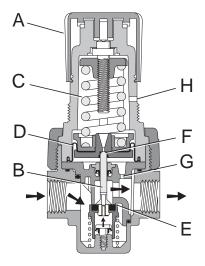
This type of regulator is generally used in a widevariety of applications where reduced pressure is highly desirable for energy conservation, safety requirements, air circuit control and air instrumentation.

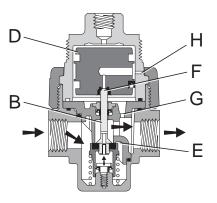
Operation

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.)







Product Selection

Filters

Coalescers

/ Regulators

Filter Regulat

Combos Lubricators

14R Regulators - Miniature

Filters

Coalescers

Regulators

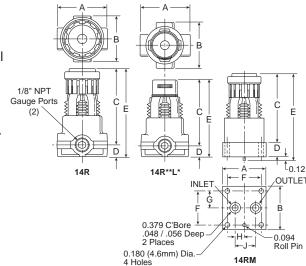
Filter/ Regulators

Lubricators

Accessories

Features

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



Port Size	NPT
Without Gaug	e
1/8"	14R013F*
1/4"	14R113F*
With Gauge	
1/8"	14R018F*
1/4"	14R118F*

Standard part numbers shown bold. 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 B C D E 1.65 1.56 2.50 0.38 2.88 (42) (40) (63.5) (10) (73)							
14R**L*	A 1.65 (42)	B 1.56 (40)	C 2.28 (57.9)	D 0.38 (10)	E 2.68 (68)			
14RM	A 1.50 (38)	B 1.50 (38)	C 2.36 (60)	D 0.50 (13)	E 2.98 (73)			
14KW	F 1.188 (30)	G 0.594 (15)	H 0.325 (8)	J 0.725 (18)				

Inches (mm)

		_
	Port Size	ı
0	1/8 Inch Pipe,	ſ
	1/8 Inch	1
	Gauge Port	1
1	1/4 Inch Pipe,	1
	1/8 Inch	1
	Gauge Port	1
В	1/4 Inch Pipe,	1
	1/4 Inch	1
	Gauge Port	1
	1/9 Inch Dino	- 1

M Manifold Mounting

Ordering Information

							- /		_ /	/	/			
	Port Size		Pressu	re Ran	ge		Reli	ief] [Po	rt Ty	ре	О	ptions
0	1/8 Inch Pipe,		Withou	ıt Gaug	<u>e</u>	F	Reliev	ing	11	Blan	k N	IPT	Blank	No Options
	1/8 Inch	<u>Yell</u>	ow Knob	Blac	k Knob	G	Non-R	elieving			1 B	SPP	L [†]	Preset Non-
	Gauge Port	10 3	30 psig	B0 3	0 psig	Н	Low Te	emp.			2 B	SPT		Adjustable
1	1/4 Inch Pipe,	11 6	60 psig	B1 6	0 psig		Reliev	ing					P [†]	Preset
	1/8 Inch	12 ′	15 psig	B2 1	5 psig	J	Low Te							Adjustable
	Gauge Port	13 ′	125 psig	B3 1	25 psig		Non-R	elieving	╛╽				S [†]	Pressure
В	1/4 Inch Pipe, 1/4 Inch		With	Gauge*										Limiter Max.
	Gauge Port	15 3	30 psig	B5 3	0 psig			End	gine	ering				Adjustable
_	1/8 Inch Pipe,		60 psig		0 psig				Lev	el 🖁			1 1	Pressure Limiter
	No Gauge Port	17 ′	15 psig	B7 1	5 psig			* \	/Vill b	ре				Max. Non-

B8 125 psig

Not available with BSPP or BSPT

13

Spring Type by Preset / Limited Pressure:

For Preset / Limited Pressure 10 to 25 use 30 PSI Spring For Preset / Limited Pressure 26 to 50 use 60 PSI Spring

port types.

18 125 psig

For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

Will be Entered at

Factory

djustable ressure imiter Max. djustable ressure imiter Max. Non-Adjustable

† 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.

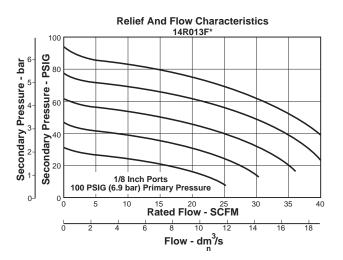
(Example: 065 = 65 psig

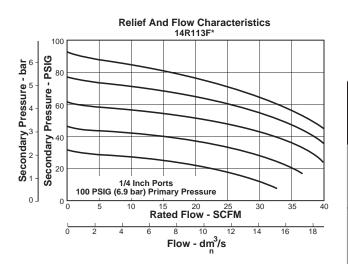
pressures, contact

For higher

factory.







CAUTION:

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

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

14R Regulator Kits & Accessories

Bonnet As	L01369						
Bonnet Tai	Bonnet Tamperproof Kit						
•	60 psig, 1/8" 160 psig, 1/8 60 psig, 1/4"	NPT (0 to 2.1 bar) NPT (0 to 4.1 bar) " NPT (0 to 11.0 bar) NPT (0 to 4.1 bar) " NPT (0 to 11.0 bar)	. K4515N18060 K4515N18160 .K4520N14060				
Mounting I	PS417BP						
Panel Mou		lasticletal					
Poppet / Pi	iston Kits –	Unbalanced, Non-Relieving Unbalanced, Relieving					
	1-30 psig Rar 1-60 psig Rar	nge (Yellow)nge (Black)nge (White)nge (Gold)	P01175				

*Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.

Specifications

Gauge Ports (2)(Can be used for Full Flow)	1/8 or 1/4 Inch
Port Threads	1/8, 1/4 Inch
Pressure & Temperature Ratings –	
	32°F to 125°F (0°C to 52°C)
Low Temperature	4°F to 125°F (-20°C to 52°C)
Secondary Pressure Ranges –	
Standard Pressure	2 to 125 psig (0 to 8.6 bar)
Medium Pressure	1 to 60 psig (0 to 4.1 bar)
Medium Pressure	1 to 30 psig (0 to 2.1 bar)
Low Pressure	1 to 15 psig (0 to 1 bar)

Materials of Construction

C53

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



Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

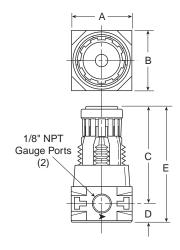
Combos

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" 13 SCFM§ 1/4" – 15 SCFM§



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

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

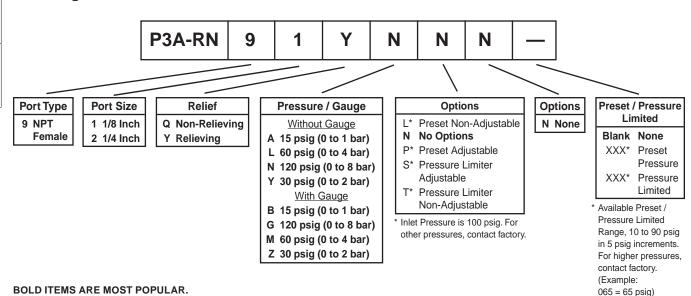
NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

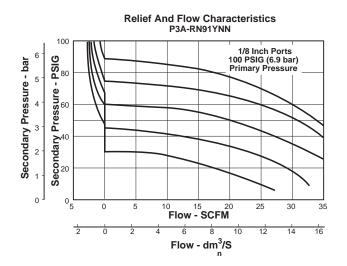
§ SCFM = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

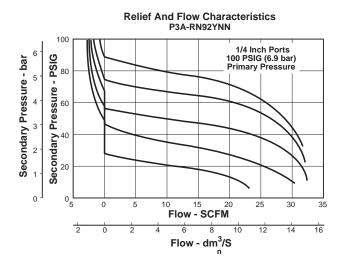
P3A-R Regulator Dimensions					
A 1.57 (40)	B 1.57 (40)	C 2.46 (63)			
D 0.46 (12)	E 2.92 (74)				

Inches (mm)

Ordering Information







CAUTION:

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

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

P3AR Regulator Kits & Accessories

Gauges – 30 psig, 1/8" NPT (0 to 2.1 bar)
Mounting Bracket Kit* (Includes Panel Mount Nut)PS417BP
Panel Mount Nut*P78652
Poppet / Piston Kits – Unbalanced, Non-RelievingPS428P Unbalanced, RelievingPS426P
Springs – 1-15 psig Spring (Yellow) P01176 1-30 psig Spring (Black) P01175 1-60 psig Spring (White) P01174 5-110 psig Spring (Gold) P01173

MARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Specifications

Gauge Ports (2)								
Operating Pressure R	Range –	psig	bar					
Primary –	Maximum	120	8.3					
Secondary –								
15 psig Spring	Minimum	1	0.07					
	Maximum	15	1.0					
30 psig Spring	Minimum	6	0.4					
	Maximum	30	2.1					
60 psig Spring	Minimum	6	0.4					
	Maximum	60	4.1					
110 psig Spring	Minimum	6	0.4					
	Maximum	110	7.6					
Operating Temperatu	ire Range	32°F to 125°F (0°C to 52°C)					

Operating remperature Range 32 F	(0.0 125.4 (0.0 10.52.0)
Port Threads	1/8, 1/4 Inch
Weight	0.23 lb. (0.10 kg)

Materials of Construction

C55

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

^{*}Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.



C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

s Compos

R34 Regulators - Miniature





Features

- · Diaphragm operated for fast operation.
- · Large Diaphragm to valve area ratio for precise regulation and high flow capacity.
- · Balanced valve design for precise regulation.
- Available in 2 or 4 port design.
- · Available with a manifold mount to minimize plumbing.
- · Suitable for low temperature applications.
- Non-rising adjusting knob.
- 1/8" 17 SCFM*
- 1/4" 19 SCFM*



Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

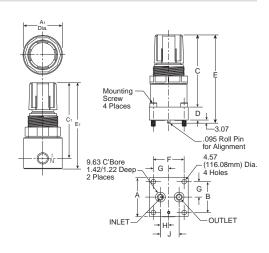
Combos

Accessories



R344-02C

R342-0MC

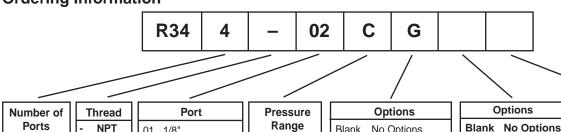


R	R34 Miniature Regulator Dimensions							
A 1.50	A 1 1.54	B 1.20	B 1 1.56	C 2.75				
(38.1) C ₁ 2.70	(39.2) D 0.50	(30.5) E 3.25	(39.6) E ₁ 3.25	(69.9) F 1.20				
(68.6) G 0.60 (15.2)	(12.7) H 0.32 (8.1)	(82.6) J 0.73 (18.5)	(82.6)	(30.5)				

Model	Port Sizo	Without Gauge	Without Gauge	Without Gauge	With Gauge		With Gauge
Туре	Port Size	0 to 30 psig (0.0 to 2.1 bar)	0 to 60 psig (0.0 to 4.1 bar)	0 to 125 psig (0.0 to 8.6 bar)	0 to 30 psig (0.0 to 2.1 bar)	0 to 60 psig (0.0 to 4.1 bar)	0 to 125 psig (0.0 to 8.6 bar)
	1/8"	R344-01A	R344-01B	R344-01C	R344-01AG	R344-01BG	R344-01CG
Relieving	1/4"	R344-02A	R344-02B	R344-02C	R344-02AG	R344-02BG	R344-02CG
	Manifold Mount	R342-0MA	R342-0MB	R342-0MC			

^{*} SCFM = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

Ordering Information



Ports 2 Ports 4 Ports G BSPP

1/8" 02 1/4" **0M Manifold Mount**

Range 0-30 PSI В 0-60 PSI 0-125 PSI Blank No Options Gauge G Non-Relieving Diaphragm Panel Mount Nut

Μ[†] Preset Adjustable † Inlet Pressure is 100 psig.

For other pressures, contact factory.

Preset Non-

Adjustable

	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)



Not Available with Manifold Mount.

Technical Specifications - R34

Relief And Flow Characteristics R342-0MC 100 1/8 Inch Ports 1/8

Rated Flow - SCFM

Flow - dm³/s

Relief And Flow Characteristics R344-01C 1/8 Inch Ports 100 PSIG (6.9 bar) Primary Pressure Primary Prim

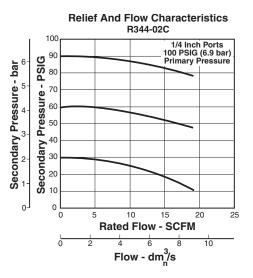
CAUTION:

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

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

MARNING

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



R34 Regulator Kits and Accessories

Diaphragm Assembly - Non-relieving	
Spring, Regulating - 0 to 30 psig (0 to 2.1 bar) 0 to 60 psig (0 to 4.1 bar) 0 to 125 psig (0 to 8.6 bar)	GRP-96-718
Panel Mount Nut - Aluminum	R05X51-P
Gauges – 0 to 60 psig (0 to 4.1 bar), 1-1/2" Dial Face, 1/8 NPT, CBM	K4515N18060 e,

Materials of Construction

Body	Aluminum
Bonnet	Acetal
Diaphragm & Seals	Nitrile
Valve Assembly	Brass
Springs	Steel
Panel Nut	

Specifications

C57

40° F to 150°F (-40° C to 65.5°C)
300 psig Maximum (20.4 bar)
1/8, 1/4 Inch
(2) Std 1/8 Inch
(No Gauge Port Version Available)
25 lbs. (0.11 kg)

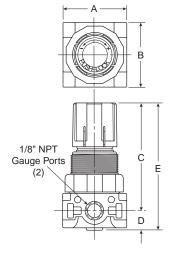


R24, R25 Regulators - Miniature (Air / Water Service)



Features

- Lightweight Plastic Body
- Constructed with a Combination of N.S.F. and F.D.A. Approved Materials
- · Unbalanced Poppet Standard
- Non-rising, Push-to-lock Adjusting Knob
- Compact, 3.10 inch (79mm) high by 1.60 inch (41mm) wide
- Lightweight
- · Diaphragm Operated



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	NPT	
Port Size	Air Service Relieving	Water Service Non-Relieving
	Relieving, 0-125 Reduced Pressure, Without Gauge	
1/8"	R25-01C	R24-01CK
1/4"	R25-02C	R24-02CK

Bold Items are Most Popular.

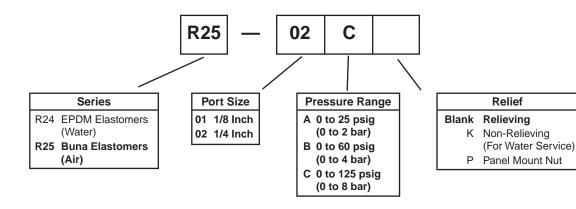
For other models refer to ordering information below.

NOTE: 1.250 Dia. (31.8mm) hole required for panel mounting.

R24, R25 Regulator Dimensions		
A 1.60 (41)	B 1.60 (41)	C 2.61 (66)
D 0.49 (13)	E 3.10 (79)	

Inches (mm)

Ordering Information



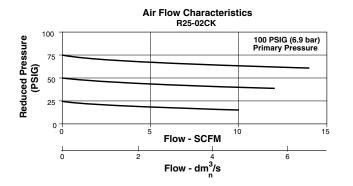
C58

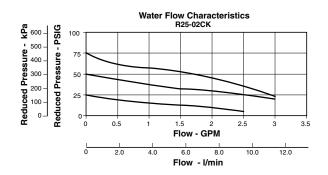
BOLD ITEMS ARE MOST POPULAR.



Coalescers

Regulators





CAUTION:

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

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

R24, R25 Regulator Kits and Accessories

Panel Mount Nut - Plastic	R05X51-P
Aluminum	R05X51-A
Mounting Bracket and Nut	SA161X57
Service Kits - Relieving (Buna)	RKR25Y
Non-Relieving (Buna)	RKR25KY
Relieving (EPDM)	RKR24Y
Non-Relieving (EPDM)	RKR24KY
Springs – 0-25 psig Spring	SPR-375-1
0-60 psig Spring	SPR-376
0-125 psig Spring	SPR-377

Specifications

Gauge Ports (2)	1/8 Inch
	(Can be used for full flow)
Pressure Rating - Maximum Inlet Pres	ssure 150 psig(10.0 bar)
Port Threads	1/8, 1/4 Inch
Temperature Rating	40°F to 125°F (4°C to 52°C)
Weight	0.25 lb. (0.11 kg)

Materials of Construction

Adjusting Screw	Steel
Body	Acetal
Bonnet and Seat	Acetal
Diaphragm (R25)	Buna N
Diaphragm (R24)	EPDM
Seals (R25)	Buna N
Seals (R24)	EPDM
Springs	Stainless Steel
Valve Poppet (R25)	Buna N
Valve Poppet (R24)	EPDM



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Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

compos

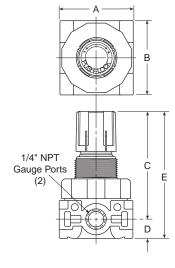


R45, R46 Regulators – Miniature (Air / Water Service)



Features

- · Lightweight Plastic Body
- · Constructed with a Combination of N.S.F. and F.D.A. Approved Materials
- · Unbalanced Poppet Standard
- Non-rising, Push-to-lock Adjusting Knob
- Compact, 3.43 inch (87.1mm) high by 2.06 inch (52.3mm) wide
- · Lightweight
- Diaphragm Operated



	NPT		
Port Size	Air Service Relieving	Water Service Non-Relieving	
	Relieving, 0-125 Reduced Pressure, Without Gauge		
1/4"	R45-02C	R46-02CK	
3/8"	R45-03C	R46-03CK	

Bold Items are Most Popular.

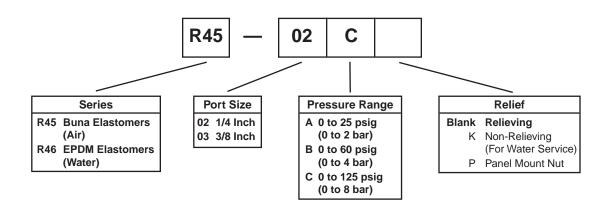
For other models refer to ordering information below.

NOTE: 1.250 Dia. (31.8mm) hole required for panel mounting.

R45, R46 Regulator Dimensions		
A 2.06 (52)	B 2.06 (52)	C 2.90 (74)
D 0.53 (14)	E 3.43 (87)	

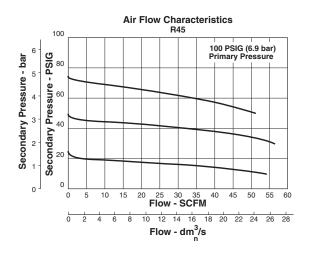
Inches (mm)

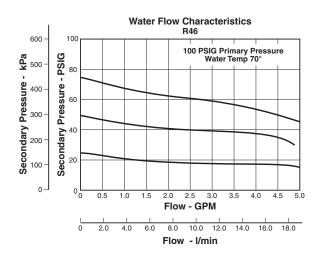
Ordering Information



C60







CAUTION:

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

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

R45, R46 Regulator Kits and Accessories

Panel Mount Nut - Plastic	R05X51
Aluminum	R05X51A
Mounting Bracket and Nut	SA161X57
Service Kits - Relieving	RKR45Y
Non-Relieving	RKR45KY
Springs – 0-25 psig Spring	SPR-46
0-60 psig Spring	
0-125 psig Spring	SPR-48

Specifications

Gauge Ports (2)	1/4 Inch
	(Can be used for full flow)
Pressure Rating - Maximum Inlet F	Pressure 150 psig(10.0 bar)
Port Threads	1/4, 3/8 Inch
Temperature Rating	40°F to 125°F (4°C to 52°C)
Weight	0.38 lb. (0.17 kg)

Materials of Construction

C61

Adjusting Screw	Steel
Body	Acetal
Bonnet and Seat	Acetal
Diaphragm (R45)	Buna N
Diaphragm (R46)	EPDM
Seals (R45)	Buna N
Seals (R46)	EPDM
Springs	Stainless Steel
Valve Poppet (R45)	Buna N
Valve Poppet (R46)	EPDM

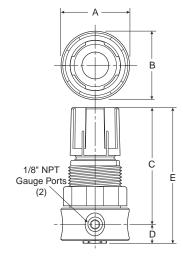


20R Regulators – Miniature (Water Service)



Features

- Rugged brass body for water service.
- · Unbalanced 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



C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combo

Accessories

Port Size	NPT
Without Gaug	e
1/8"	20R013G*
1/4"	20R113G*

Bold Items are Most Popular.

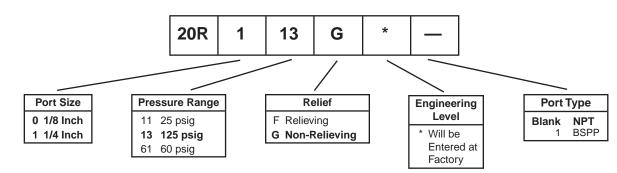
For other models refer to ordering information below.

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

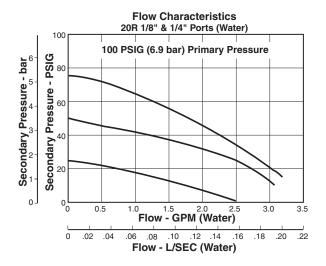
20R Regulator Dimensions		
A 1.56 (40)	B 1.56 (40)	C 2.56 (65)
D 0.50 (13)	E 3.06 (78)	

Inches (mm)

Ordering Information







CAUTION:

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

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

20R Regulator Kits & Accessories

Bonnet Kit	PCKR364Y
Bonnet Tamperproof Kit	PCKR364T
Panel Mount Nut – Aluminum	
Mounting Bracket Kit	SA161X57
Repair Kits – Relieving	

Specifications

Gauge Ports (2)	1/8 Inch
Port Threads	1/8, 1/4 Inch
Pressure Rating – Maximum .	0 to 300 psig (0 to 20.7 bar)
Secondary Pressure Ranges	_
Standard Pressure	2 to 125 psig (0 to 8.6 bar)
Medium Pressure	1 to 60 psig (0 to 4.1 bar)
	1 to 25 psig (0 to 2.1 bar)
Temperature Ratings	32°F to 125°F (0°C to 52°C)

Materials of Construction

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



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Coalescers

Regulators

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15R Regulators - Economy



Coalescers

Regulators

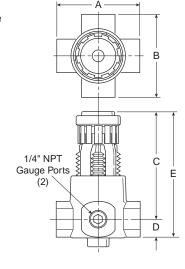
Filter/ Regulators

Accessories

Features

- Solid control piston with resilient seat for service-free operation.
- Non-rising "locking" adjusting knob.
- Compact, 3.30 inch (84mm) high by 2.12 inch (54mm) wide.
- · Easily serviced.
- High Flow: 1/4" − 21 SCFM§

3/8" - 28 SCFM§



Port Size	NPT
Without Gaug	е
1/4"	15R113F*
3/8"	15R213F*
With Gauge	
1/4"	15R118F*
3/8"	15R218F*

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

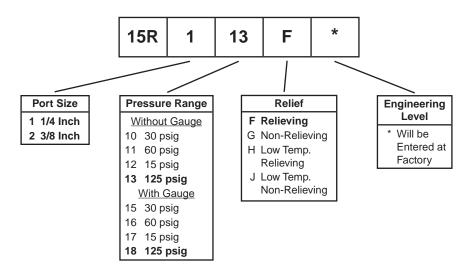
NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

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

15R Regulator Dimensions		
A 2.12 (54)	B 2.00 (51)	C 2.60 (66)
D 0.70 (18)	E 3.30 (84)	

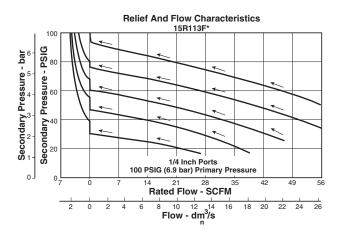
Inches (mm)

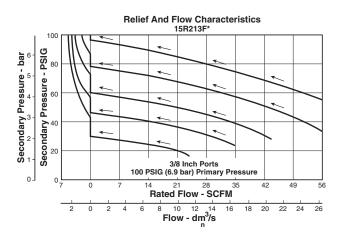
Ordering Information



C64







CAUTION:

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

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

⚠ WARNING

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

15R Regulator Kits & Accessories

Body Service Kit – Unbalanced	PS424BP	
Bonnet Assembly KitL01369		
Gauges – 30 psig, 1/8" NPT (0 to 2.1 ba 60 psig, 1/8" NPT (0 to 4.1 ba 160 psig, 1/8" NPT (0 to 11.0 60 psig, 1/4" NPT (0 to 4.1 ba 160 psig, 1/4" NPT (0 to 11.0	rýK4515N18060 bar)K4515N18160 r)K4520N14060	
Mounting Bracket Kit* (Includes Panel Mount Nut) PS417BP		
Panel Mount Nuts* - Plastic Metal	P78652 P01531	
Seal Kit - Unbalanced	PS454B	
Springs – 1-15 psig Range (Yellow) 1-30 psig Range (Black) 1-60 psig Range (White) 2-125 psig Range (Gold)	P01175 P01174	

*Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.

Specifications

Gauge Ports (2)(Can be used for Full Flow)	1/4 Inch	
Port Threads	1/4, 3/8 Inch	
Pressure & Temperature Ratings –	0 to 250 psig (0 to 17.2 bar) 32°F to 125°F (0°C to 52°C)	
Low Temperature	-4°F to 125°F (-20°C to 52°C)	
Secondary Pressure Ranges –		
Standard Pressure	2 to 125 psig (0 to 8.6 bar)	
Medium Pressure	1 to 60 psig (0 to 4.1 bar)	
Medium Pressure	1 to 30 psig (0 to 2.1 bar)	
Low Pressure	1 to 15 psig (0 to 1 bar)	

Materials of Construction

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



Filters

Coalescers

Regulators

Lubricators

Combos



05R Regulators - Economy



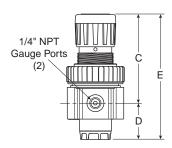
Features

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- · Rolling diaphragm for extended life.

(Revised 08-09-11)

- Removable non-rising knob for panel mounting and tamper resistance.
- · Easily serviced.
- · Reverse Flow.
- High Flow: 1/4" 30 SCFM§ 3/8" – 40 SCFM§





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

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

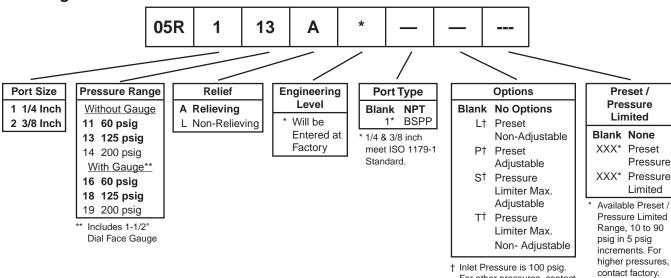
Inches (mm)

Standard part numbers shown bold. 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.

Ordering Information





Spring Type by Preset / Limited Pressure:

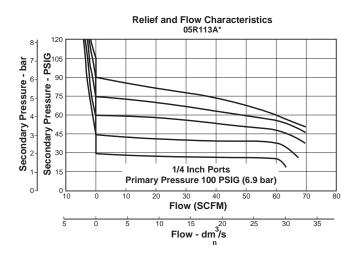
For Preset / Limited Pressure 26 to 50 use 60 PSI Spring

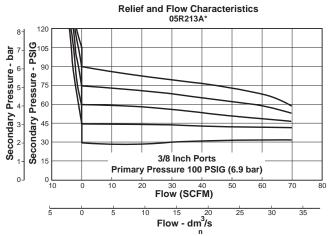
For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

(Example:

065 = 65 psig

For other pressures, contact





CAUTION:

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

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

05R Regulator Kits & Accessories

Bonnet Assembly Kit	PS915P
Control Knob	P04420
Gauges – 1-1/2" Dial Face	
30 psig (0 to 2.1 bar)	K4515N14030
60 psig (0 to 4.1 bar)	K4515N14060
160 psig (0 to 11.0 bar)	K4515N14160
300 psig (0 to 20.0 bar)	K4515N14300
2" Dial Face	
60 psig (0 to 4.1 bar)	K4520N14060
160 psig (0 to 11.0 bar)	
300 psig (0 to 20.0 bar)	
Mounting Bracket Kit	PS963P
Panel Mount Nut - Metal	PS964P
Springs – 1-30 psig Range	P04427
1-60 psig Range	
2-125 psig Range	P04425
2-200 psig	
Service Kit - Relieving	PS908P
Non-Relieving	

Specifications

C67

Gauge Ports (2)	1/4 Inch	
Port Threads	1/4, 3/8 Inch	
Primary Pressure Rating –		
Maximum Primary Pressure	300 psig (17.2 bar) Max.	
For Secondary Pressure Ranges see above charts.		
Temperature Rating	32°F to 175°F (0°C to 80°C)	
Low Temperature	4°F to 125°F (-20°C to 52°C)	
Weight	1.1 lb. (0.49 kg)	

Materials of Construction

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



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Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos

06R Regulators - Compact

Filters

Coalescers

Regulators

Filter/ Regulators

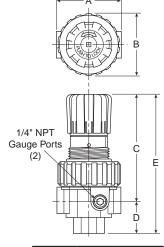
Lubricators

Accessories

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§



06R Regulator Dimensions		
A 2.81 (71)	B 2.74 (70)	4.0 (11
D 1.39 (35)	E 6.08 (154)	

С

4.69

(119)

Inches (mm)

Port Size	NPT
Without Gaug	e
1/4"	06R113A*
3/8"	06R213A*
1/2"	06R313A*
With 160 PSI	Gauge
1/4"	06R118A*
3/8"	06R218A*
1/2"	06R318A*

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

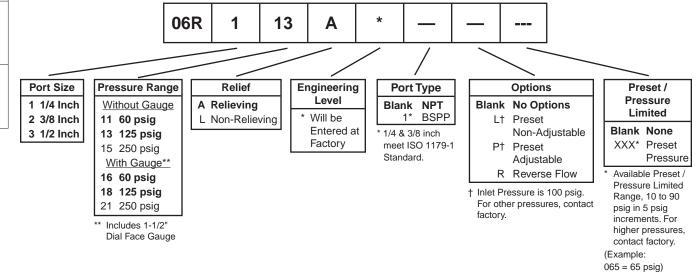
NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

§ 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.

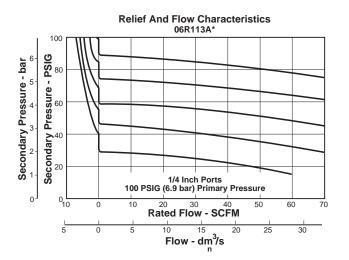
Ordering Information

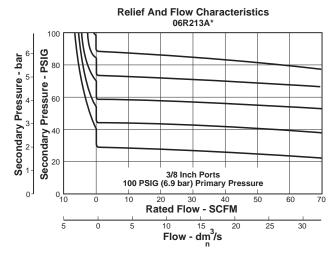


Spring Type by Preset / Limited Pressure:

For Preset / Limited Pressure 26 to 50 use 60 PSI Spring For Preset / Limited Pressure 51 to 90 use 125 PSI Spring





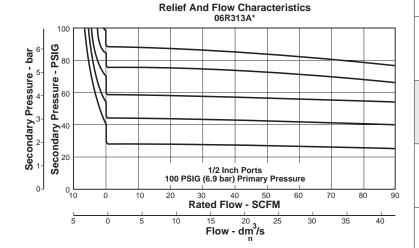


CAUTION:

REGULATOR PRESSURE ADJUSTMENT -

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

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



06R Regulator Kits & Accessories

Bonnet Assembly Kit	PS715P
Control Knob	P04069B
Gauges – 60 psig (0 to 4.1 bar)	K4520N14160
Mounting Bracket Kit (Includes Panel Mount Nut)	PS707P
Panel Mount Nut – Plastic	
Reverse Flow Service Conversion Kit – Relieving	PS708RP
Service Kit – Relieving (Includes Poppet) Non-Relieving (Includes Poppet)	PS708P
Springs – 1-30 psig Range	P04062 P04063 P04064
ramperproof tit	37371

Specifications

Gauge Ports (2)	1/4 Inch	
(Can be used as additional High Flo	w 1/4 Inch Outlet Ports)	
Port Threads	1/4, 3/8, 1/2 Inch	
Primary Pressure Rating –		
Maximum Primary Pressure	250 psig (17.2 bar)	
Secondary Pressure Ranges –		
Standard Pressure	2 to 125 psig (0 to 8.6 bar)	
Low Pressure	1 to 60 psig (0 to 4.1 bar)	
High Pressure	5 to 250 psig (0.4 to 17.2 bar)	
Temperature Rating	32°F to 175°F (0°C to 80°C)	
Low Temperature	-4°F to 125°F (-20°C to 52°C)	
Weight	1.6 lb. (0.7 kg)	

Materials of Construction

C69

Adjusting Stem	Steel
Body	Zinc
Bonnet, Piston Stem, Valve Poppet & Cap .	Plastic
Collar, Knob	Plastic
Diaphragm	Nitrile
Seals	Nitrile
Springs - Poppet	Stainless
Control	Steel

C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Compos

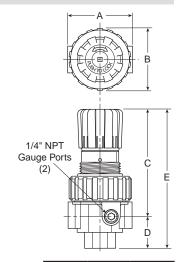
07R Regulators - Standard



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: 1/2" – 90 SCFM§ 3/4" – 90 SCFM§



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

Inches (mm)

Port Size	NPT		
Without Gauge			
1/2"	07R313A*		
3/4"	07R413A*		
With 160 PSI Gauge			
1/2"	07R318A*		
3/4"	07R418A*		

Standard part numbers shown bold. 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.

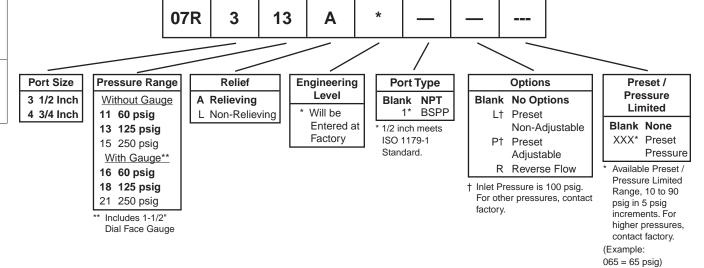
MARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Ordering Information



Spring Type by Preset / Limited Pressure:

For Preset / Limited Pressure 26 to 50 use 60 PSI Spring For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

BOLD ITEMS ARE MOST POPULAR.



Filters

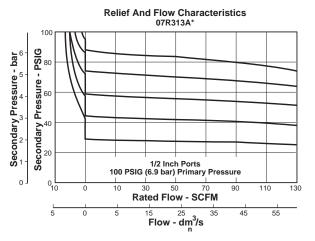
Coalescers

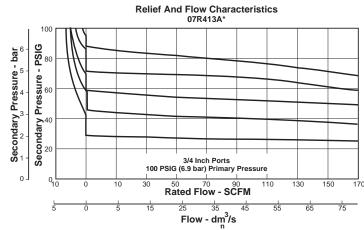
Regulators Filter / Regulators

Lubricators s

Combo

Accessories





CAUTION:

REGULATOR PRESSURE ADJUSTMENT -

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

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

07R Regulator Kits & Accessories

Bonnet Assembly Kit	PS715P
Control Knob	P04069B
Gauges – 60 psig (0 to 4.1 bar)	K4520N14160
Mounting Bracket Kit (Includes Panel Mount Nut)	PS807P
Panel Mount Nut - Plastic	
Reverse Flow Service Conversion Kit – Relieving	PS808RP
Service Kit – Relieving (Includes Poppet) Non-Relieving (Includes Poppet)	
Springs – 1-30 psig Range	P04062 P04063 P04064

Specifications

Gauge Ports (2)(Can be used as additional High	
	1/2, 3/4 Inch
Primary Pressure Rating –	
Maximum Primary Pressure	250 psig (17.2 bar)
Secondary Pressure Ranges -	-
Standard Pressure	2 to 125 psig (0 to 8.6 bar)
	1 to 60 psig (0 to 4.1 bar)
High Pressure	5 to 250 psig (0.4 to 17.2 bar)
Temperature Rating	32°F to 175°F (0°C to 80°C)
Low Temperature	4°F to 125°F (-20°C to 52°C)
Weight	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



Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Compos

Accessories



P3NR Regulators - Hi-Flow



Filters

Coalescers

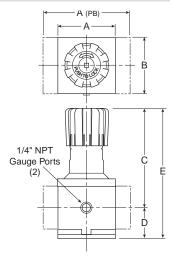
Regulators

Filter/ Regulators

Lubricators

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§



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

Inches (mm)

Port Size	NPT		
Without Gaug	je		
3/4"	P3NRA96BNN		
1"	P3NRA98BNN		
1-1/2"	P3NRA9PBNN		
With 160 PSI	Gauge		
3/4"	P3NRA96BNG		
1"	P3NRA98BNG		
1-1/2"	P3NRA9PBNG		

Standard part numbers shown bold. 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.

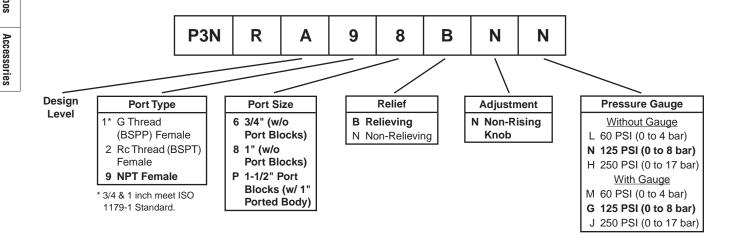
⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

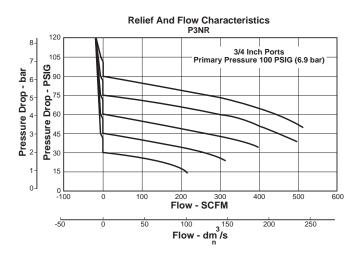
Ordering Information

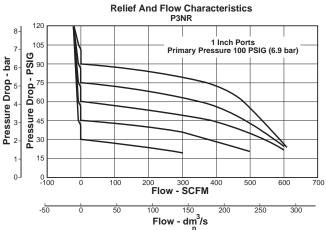


C72

BOLD ITEMS ARE MOST POPULAR.





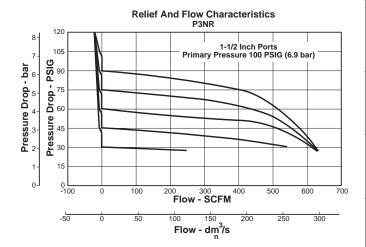


CAUTION:

REGULATOR PRESSURE ADJUSTMENT -

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

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



P3NR Regulator Kits & Accessories

Control Knob	P3NKA00PN
Gauges - 60 psig (0 to 4.1 bar)	K4520N14060
160 psig (0 to 11.0 bar)	K4520N14160
300 psig (0 to 20.0 bar)	K4520N14300
Mounting Bracket Kit*	P3NKA00MW
Service Kit – Relieving	
Springs – 1-60 psig Range	C10A1304
2-125 psig Range	C10A1308
5-250 psig Range C10A1	

Specifications

C73

Gauge Ports (2)	1/4 Inch
(Can be used as additional High FI	ow 1/4 Inch Outlet Ports)
Port Threads	3/4, 1, 1-1/2 Inch
Primary Pressure Rating –	
Maximum Primary Pressure	250 psig (17.2 bar)
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.	

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



Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

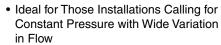
Accessories Combos

R119 Regulators - Standard

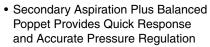
*

Features

 High Flow Performance Featuring Rugged Design for the Most Demanding Applications

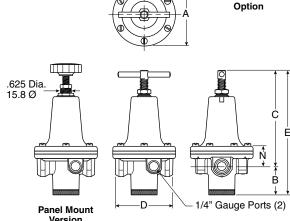






- Heavy Duty Tee Handle Adjustment
- Reverse Flow Version Available
- Panel Mount Version Available
- High Flow: 1/4" 100 SCFM§ 3/8" – 110 SCFM§

1/2" - 150 SCFM§



X80 Reverse Flow

CISION					
R119 Regulator Dimensions					
Α	В	С	D	E	N
R119-02C, R119-03C					
3.00 (76)	1.38 (35)	5.29 (134)	2.74 (70.5)	6.67 (169)	.90 (24)
R119-0	4C				
3.56	1.56	5.34	3.25	6.90	1.45

(83)

(175)

(37)

(136)

inches (mm)

(90)

** Brass Bottom Plug Standard with X64 Option.

† Not available with 250 PSIG spring

(40)

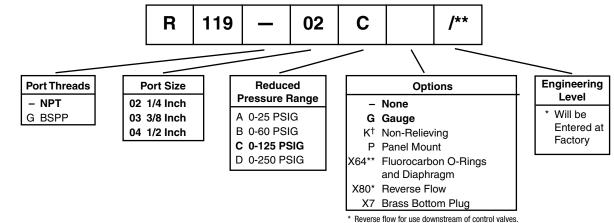
Port Size	NPT Relieving	BSPP Relieving
Without Gauge 0-125 PSIG Reduced Pressure		
1/4"	R119-02C	R119G02C
3/8"	R119-03C	R119G03C
1/2"	R119-04C	R119G04C
With Gauge 0-125 PSIG Reduced Pressure		
1/4"	R119-02CG	_
3/8"	R119-03CG	_
1/2"	R119-04CG	_

Standard part numbers shown bold.

For other models refer to ordering information below.

§ SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting, and 20 PSIG pressure drop.

Ordering Information

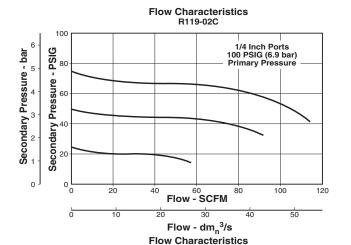


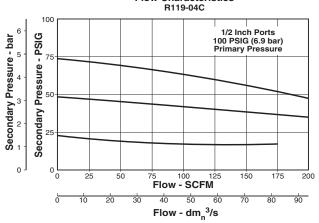
BOLD ITEMS ARE MOST POPULAR.

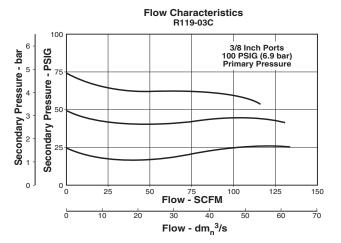


C74

Coalescers







⚠ WARNING

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

CAUTION:

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

R119 Regulator Kits & Accessories

Gauges –
2" Dial Size, 1/4" Back Connection 0 to 60 PSIG (0 to 400 kPa)K4520N14060
2" Dial Size, 1/4" Back Connection 0 to 160 PSIG (0 to 1100 kPa)K4520N14160
2" Dial Size, 1/4" Back Connection 0 to 300 PSIG (0 to 2068 kPa)K4520N14300
Mounting Bracket Kit –
1/4", 3/8"SA15Y57 1/2"18A57
Panel Mount Conversion Kit –
1/4", 3/8"
1/2"
Repair Kits –
Non-Relieving Diaphragm, Valve Assembly (1/4", 3/8"; All PSIG)RK118Y
Relieving Diaphragm, Valve Assembly (1/4", 3/8"; All PSIG)RK119Y
Non-Relieving Diaphragm, Valve Assembly (1/2"; 25, 60, 125 PSIG)RK118A
Non-Relieving Diaphragm, Valve Assembly (1/2"; 250 PSIG)RK118A250
Relieving Diaphragm, Valve Assembly (1/2"; 25, 60, 125 PSIG)RK119A

Relieving Diaphragm,	
Valve Assembly (1/2"; 250 PSIG)	RK119A250
Spring Cage & T-Handle Kit (1/4 & 3/8)	RKC119Y
Spring Cage & Insert Only Kit (1/2)	SAC18A3/BK
For Fluorocarbon Repair Kits, add X64 to Kit N	lumber suffix.

Specifications

C75

Gauge Ports (2)	1/4 Inch
Port Threads	1/4, 3/8, 1/2 Inch
Reduced Pressure Range.	
Supply Pressure	300 PSIG Maximum (20.4 bar)
Temperature Rating	40°F to 125°F (4.4°C to 52°C)
Weight –	
R119-02, R119-03	1.8 lb. (0.82 kg) / Unit
	26 lb. (11.79 kg) / 12-Unit Master Pack
R119-04	3.2 lb. (1.45 kg) / Unit
	27 lb. (12.25 kg) / 8-Unit Master Pack

Materials of Construction

Adjusting Screw, Springs	Steel
Body, Spring Cage	Zinc
Bottom Plug	Nylon
Innervalve	Brass
Seals	Buna N



R119 Regulators - Hi-Flow

Filters

Coalescers

Regulators

Accessories

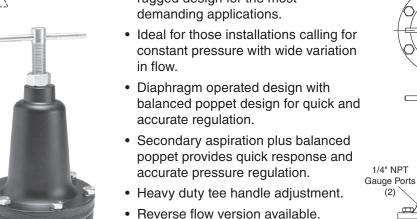
Features

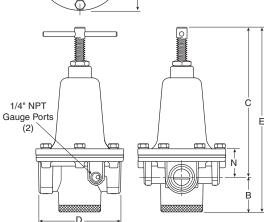
· High flow performance featuring rugged design for the most demanding applications.

- High Flow: 3/4" 300 SCFM§

1" - 400 SCFM§

1-1/4" & 1-1/2" - 500 SCFM§





X80 Reverse Flow Option

R119-06C, R119-08C Regulator Dimensions					
A 4.69 (119)	B 1.87 (47)	C 8.15 (207)	D 4.38 (111)	E 10.02 (255)	N 1.61 (41)
R119-10C, R119-12C Regulator Dimensions					

inches (mm)

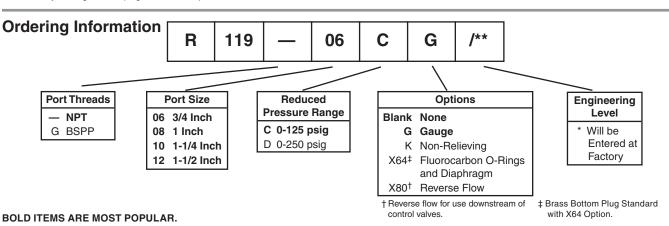
David Oliva	NPT
Port Size	Relieving
Without Gaug	e 0-125 psig Reduced Pressure
3/4"	R119-06C
1"	R119-08C
1-1/4"	R119-10C
1-1/2"	R119-12C
With Gauge 0-125 psig Reduced Pressure	
3/4"	R119-06CG
1"	R119-08CG
1-1/4"	R119-10CG
1-1/2"	R119-12CG

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

§ SCFM = Standard Cubic Feet Per Minute at 100 psig Inlet, 75 psig No Flow Secondary Setting, and 20 psig Pressure Drop.

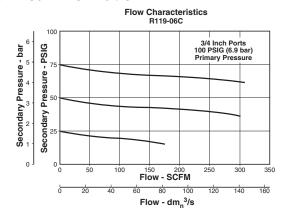
⚠ WARNING

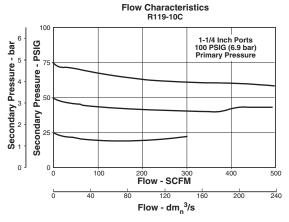
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.

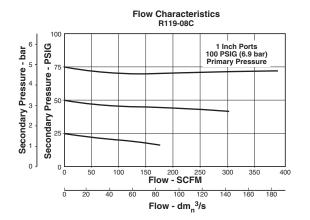


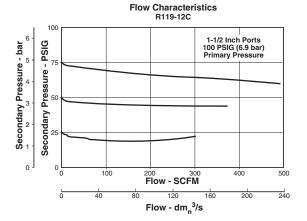
Air Line Regulators

Technical Information









CAUTION:

REGULATOR PRESSURE ADJUSTMENT -

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

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

R119 Regulator Kits & Accessories

Gauges – 2" Dial Size, 1/4" Back Connection 0 to 60 psig (0 to 400 kPa)K4520N14060
2" Dial Size, 1/4" Back Connection 0 to 160 psig (0 to 1100 kPa)K4520N14160
2" Dial Size, 1/4" Back Connection 0 to 300 psig (0 to 2068 kPa)K4520N14300
Mounting Bracket Kit
Repair Kits – Non-Relieving Diaphragm, Valve Assembly (3/4", 1")
Non-Relieving Diaphragm, Valve Assembly (1-1/4", 1-1/2")RK118D
Relieving Diaphragm, Valve Assembly (3/4", 1")RK119B
Relieving Diaphragm, Valve Assembly (1-1/4", 1-1/2")RK119D
For Fluorocarbon Repair Kits, add X64 to Kit Number suffix.

Specifications

Gauge Ports (2)	1/4 Inch
Port Threads	3/4, 1, 1-1/4, 1-1/2 Inch
Reduced Pressure Range	2 to 125 psig (0.15 to 8.5 bar)
Supply Pressure	300 psig Maximum (20.4 bar)
Temperature Rating	40°F to 125°F (4.4°C to 52°C)
Weight -	
R119-06, R119-08	6.2 lb. (2.81 kg) / Unit
	25 lb. (11.34 kg) / 4-Unit Master Pack
R119-10, R119-12	7.2 lb. (3.27 kg) / Unit
	29 lb. (13.15 kg) / 4-Unit Master Pack

Materials of Construction

Adjusting Screw, Springs	Steel
Body, Spring Cage	Zinc
Bottom Plug, Innervalve	Brass
Seals	Buna N



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Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

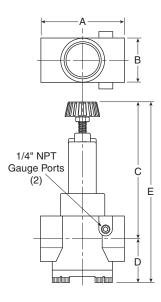
Accessories

Hi-Flow 09R Series

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 Gaug	e
2"	09R813B*

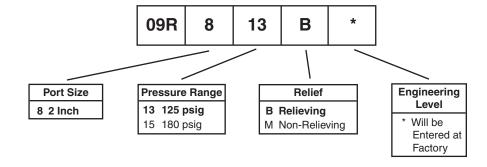
Standard part numbers shown bold. For other models refer to ordering information below.

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

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

Inches (mm)

Ordering Information



C78

BOLD ITEMS ARE MOST POPULAR.



Select

Filter

Coalescers

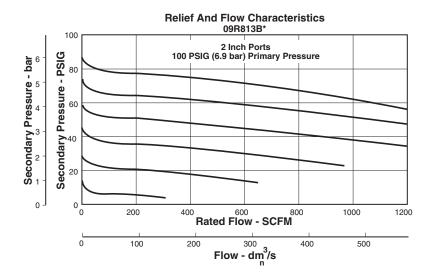
Regulators

Filter / Regulators

Lubricators

Air Line Regulators

Technical Information



CAUTION:

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

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

09R Regulator Kits & Accessories

Body Service Kit	PS603P
Gauges – 160 psig (0 to 11.0 bar)	
Mounting Bracket Kit	PS605P
Service Kit – Non-Relieving	
Springs – 0 to 125 psig Range 0 to 180 psig Range	

Specifications

Gauge Ports (2)	
Port Threads	2 Inch
Primary Pressure Rating – Maximum Primary Pressure	300 psig (17.2 bar)
Secondary Pressure Range –	10 to 125 psig (0.7 to 8.6 bar) 10 to 180 psig (0.7 to 12.4 bar)
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



Economy 10R Series

10R Pilot Controlled Regulator - Economy



Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories

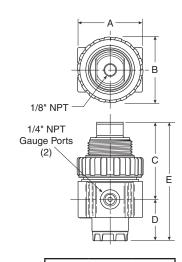
Features

· Unique balanced poppet valve minimizes secondary pressure fluctuations.

(Revised 08-09-11)

- · Solid control piston with resilient seat for long, service-free operation.
- · Easily serviced.
- High Flow: 1/4" 50 SCFM§

3/8" - 50 SCFM§



NPT
e
10R115P*
10R215P*
Gauge
10R121P*
10R221P*

Standard part numbers shown bold. 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.

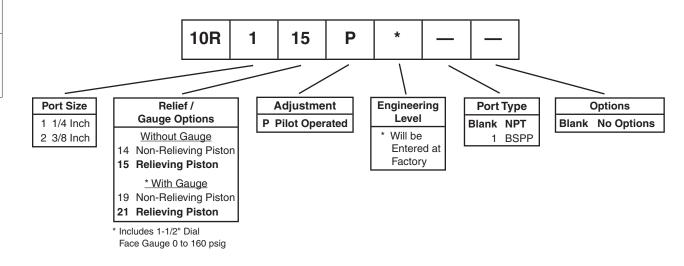
10R Pilot Regulator Dimensions		
A 2.00 (51)	B 2.06 (52)	C 2.43 (62)
D 1.28 (32)	E 3.71 (94)	

Inches (mm)

↑ WARNING

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

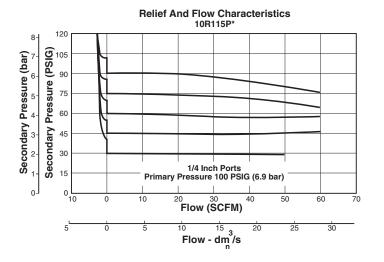
Ordering Information

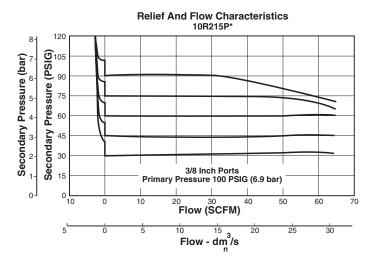


C80

BOLD ITEMS ARE MOST POPULAR.







K4515N14030
K4515N14060
K4515N14160
K4515N14300
K4520N14060
K4520N14160
K4520N14300
PS963P
PS964P
PS945P
PS94900P
PS94700P

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	0.90 lb. (0.41 kg)

Materials of Construction

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



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11R Pilot Controlled Regulator – Compact



Coalescers

Regulators

Filter/ Regulators

Lubricators

Accessories

Features

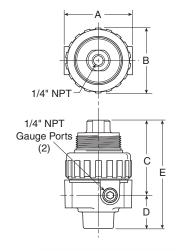
- Balanced poppet provides quick response and accurate pressure regulation.
- · Pilot controlled regulators can be mounted "out of reach" with pilot regulator installed in a convenient location.
- · Solid control piston for extended life.

(Revised 08-09-11)

- 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§



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

Inches (mm)

Port Size	NPT
Without Gaug	e
1/4"	11R115P*
3/8"	11R215P*
1/2"	11R315P*
With 160 PSI	Gauge
1/4"	11R121P*
3/8"	11R221P*
1/2"	11R321P*

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

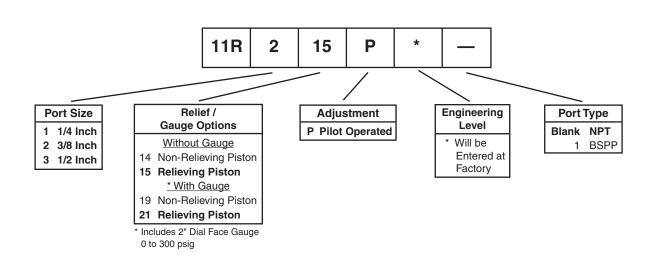
NOTE: 2.00 Dia. (50,8mm) hole required for panel mounting.

§ 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.

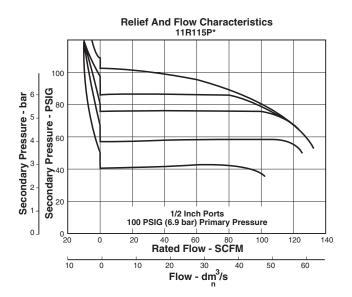
Ordering Information

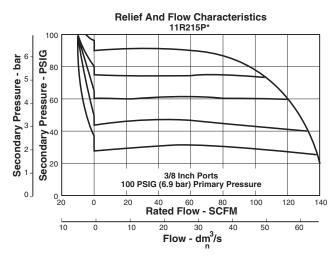


C82

BOLD ITEMS ARE MOST POPULAR.







_	
Body Service Kits – Seat Insert Kit	PS713P
Gauges – 60 psig (0 to 4.1 bar)	K4520N14160
Mounting Bracket Kit (Includes Panel Mount Nut)	PS707P
Panel Mount Nut - Plastic	
Pilot Conversion Kit – Relieving	PS745P
Service Kits – Non-Relieving	

Specifications

C83

Gauge Ports (2)1/4 Inc	:h
(Can be used as additional Full Flow 1/4 Inch Outlet Ports)	
Port Threads 1/4, 3/8, 1/2 Inc	h
Pressure & Temperature Rating – 0 to 250 psig (0 to 17.2 ba	ır)
32°F to 175°F (0°C to 80°C	2)
Weight 1.3 lb. (0.58 kg	J.)

Materials of Construction

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



Se	oduct	lection
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Filters

Coalescers

Regulators

Lubricators

Combos

Accessories

Standard 12R Series

12R Pilot Controlled Regulator - Standard

Features

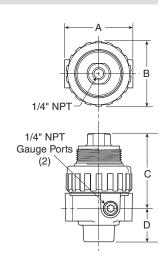
Balanced poppet provides quick response and accurate pressure regulation.

- · Pilot controlled regulators can be mounted "out of reach" with pilot regulator installed in a convenient location.
- Solid control piston for extended life.

(Revised 08-11-11)

- Two full flow 1/4" gauge ports can be used as additional outlets.
- Pilot port 1/4 Inch.
- High Flo

ow:	1/2" –	140	SCFM§
	3/4" –	140	SCFM§



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

Inches (mm)

Port Size	NPT
Without Gaug	e
1/2"	12R315P*
3/4"	12R415P*
With 160 PSI	
1/2"	12R321P*
3/4"	12R421P*

Standard part numbers shown bold. 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

Coalescers

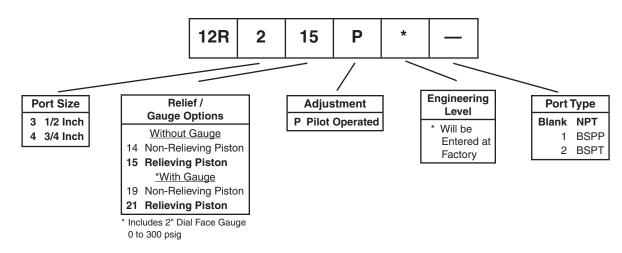
Regulators

Filter/ Regulators

Lubricators

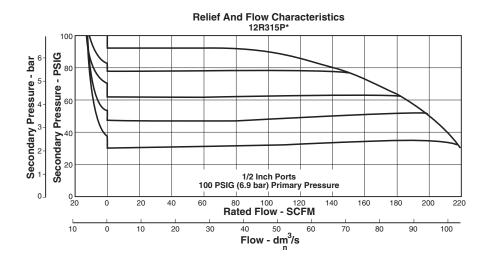
Combos

Accessories



BOLD ITEMS ARE MOST POPULAR.





Body Service Kits - Seat Insert Kit	PS813P
Gauges – 60 psig (0 to 4.1 bar)	K4520N14160
Mounting Bracket Kit (Includes Panel Mount Nut)	PS807P
Panel Mount Nut - Plastic	
Pilot Conversion Kit – Relieving	PS745P
Service Kits – Non-Relieving	

Specifications

Gauge Ports (2)		
(Can be used as additional Full Flow 1/4 Inch Outlet Ports)		
Port Threads	1/2, 3/4 Inch	
Pressure & Temperature Rating – 0 to 250 psig (0 to 17.2 bar)		
	32°F to 175°F (0°C to 80°C)	
Weight	2.0 lb. (0.91 kg)	

Materials of Construction

Zinc
Plastic
Nitrile
Steel



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Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories

P3NR Pilot Controlled Regulator - Hi-Flow

Coalescers

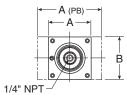
Regulators

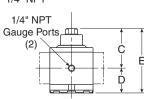
Filter/ Regulators

Lubricators

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	
Without Gaug	e	
3/4"	P3NRA96BPP	
1"	P3NRA98BPP	
1-1/2" #	P3NRA9PBPP	
With 160 PSI	Gauge	
3/4"	P3NRA96BPG	
1"	P3NRA98BPG	
1-1/2" #	P3NRA9PBPG	

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

Inches (mm)

Standard part numbers shown bold. 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.

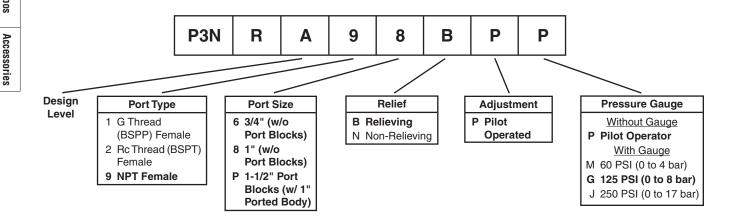
MARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Ordering Information



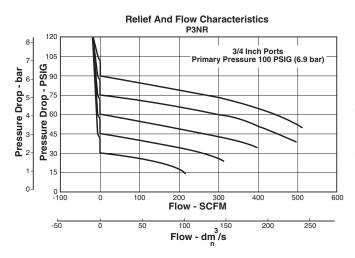
C86

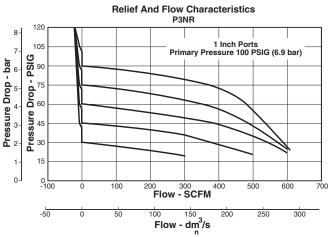
BOLD ITEMS ARE MOST POPULAR.

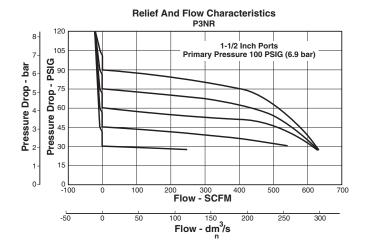


Technical Specifications - P3NR

Technical Information







C87

P3NR Pilot Regulator Kits & Accessories

Gauges – 60 ps	ig (0 to 4.1 bar)	K4520N14060
160 p	sig (0 to 11.0 bar)	K4520N14160
300 p	sig (0 to 20.0 bar)	K4520N14300
Mounting Brack	cet Kit*	P3NKA00MW
Service Kit - R	elieving	P3NKA00PD

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)

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.	

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



C

Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Compos

Accessories

R119 Series

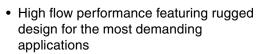
R119 – Pilot Operated Regulators

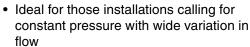


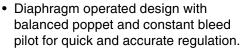
Features

 Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible

(Revised 10-10-11)







Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation

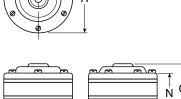
· Reverse flow available

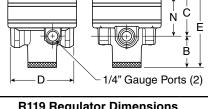
High flow: 1/4" - 100 SCFM§

3/8" - 110 SCFM§

1/2" - 150 SCFM§







R119 Regulator Dimensions					
Α	В	С	D	E	N
R119-02J, R119-03J					
3.00 (76)	1.38 (35)	1.98 (50)	2.74 (70)	3.55 (90)	1.57 (40)
R119-	R119-04J				
3.56 (90)	1.56 (40)	2.33 (59)	3.25 (83)	3.90 (99)	1.91 (49)

inches (mm)

Port Size	NPT	BSPP	
	Relieving	Relieving	
Without Gauge 0-125 PSIG Reduced Pressure			
1/4"	R119-02J	R119G02J	
3/8"	R119-03J	R119G03J	
1/2"	R119-04J	R119G04J	

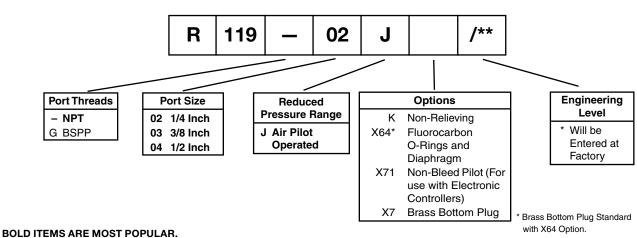
Standard part numbers shown bold. For other models refer to ordering information below.

§ SCFM = Standard Cubic Feet Per Minute at 100 PSIG Inlet, 75 PSIG No Flow Secondary Setting, and 20 PSIG Pressure Drop.

⚠ WARNING

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

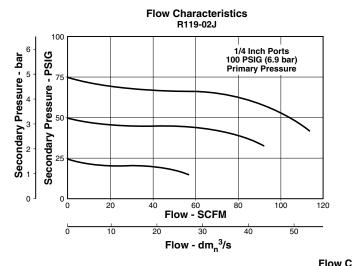
Ordering Information

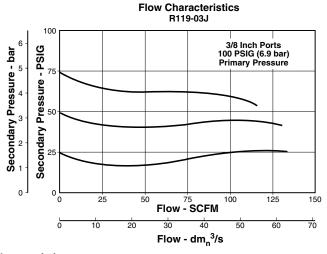


C88

Coalescers

Regulators





Flow Characteristics R119-04J 1/2 Inch Ports 100 PSIG (6.9 bar) Primary Pressure 1/2 Inch Ports 100 PSIG (6.9 bar) Primary Pressure 1/2 Inch Ports 100 PSIG (6.9 bar) Primary Pressure Flow - SCFM 1/2 Inch Ports 100 PSIG (6.9 bar) Primary Pressure Flow - SCFM Flow - dm 3/s

C89

R119 Regulator Kits & Accessories

Gauges – 2" Dial Size, 1/4" Back Connection
0 to 60 PSIG (0 to 400 kPa)
2" Dial Size, 1/4" Back Connection 0 to 160 PSIG (0 to 1100 kPa)K4520N14160
2" Dial Size, 1/4" Back Connection 0 to 300 PSIG (0 to 2068 kPa)
Repair Kits – Non-Relieving Diaphragm, Valve Assembly (1/2")RK118X20A
Non-Relieving Diaphragm, Valve Assembly (1/4", 3/8")RK118X20Y
Relieving Diaphragm, Valve Assembly (1/2")RK119X20A
Relieving Diaphragm, Valve Assembly (1/4", 3/8")RK119X20Y
For Fluorocarbon Repair Kits, add X64 to Kit Number suffix.
For Non-Bleed Pilot Repair Kits, add X71 to Kit Number suffix.

Specifications

Gauge Ports (2)1/4 Inch
Port Threads
Pilot Port – 1/4 & 3/8" Threads
Reduced Pressure Range – Adjustable to within 5 to 7 PSIG of Supply Pressure
Supply Pressure300 PSIG Maximum (20.4 bar)
Air Consumption – Constant bleed from air pilot chamber: approx. 0.17 SCFM (10 SCFH)
Temperature Rating40°F to 125°F (4.4°C to 52°C)
Weight – R119-02J, R119-03J 1.6 lb. (0.73 kg) / Unit 19 lb. (8.62 kg) / 12-Unit Master Pack
R119-04J

Materials of Construction

Body, Ring, Top Plate	Zinc
Bottom Plug	Nylon
Innervalve	Brass
Seals	



Product	Selection

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Lubricators

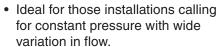
R119 Pilot Operated Regulators - Hi-Flow

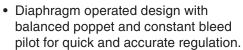


Features

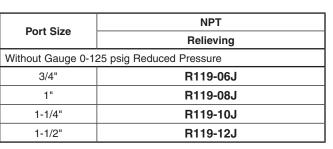
 Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible.





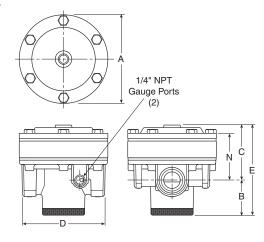


- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- · Reverse flow version available.
- High Flow: 3/4" & 1" 300 SCFM§ 1-1/4" & 1-1/2" – 500 SCFM§



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

§ SCFM = Standard Cubic Feet Per Minute at 100 psig Inlet, 75 psig No Flow Secondary Setting, and 20 psig Pressure Drop.



	R119-06J, R119-08J Pilot Regulator Dimensions				
A	B	C	D	E	N
4.72	1.87	2.94	4.38	4.81	2.47
(120)	(47))	(75)	(111)	(122)	(63)
R119-10J, R119-12J Pilot Regulator Dimensions					
A	B	C	D	E	N
4.94	1.81	3.32	4.94	5.13	2.88
(125)	(46)	(84)	(125)	(130)	(73)

inches (mm)

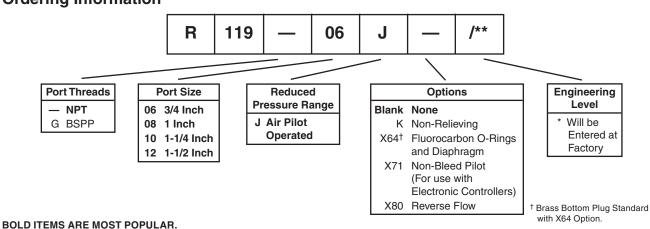
⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Ordering Information





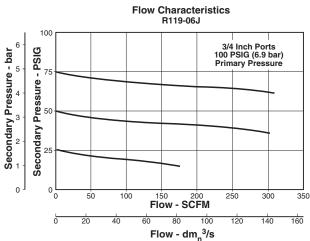
Coalescers

Regulators

Filter / Regulators Secondary Pressure - PSIG

Secondary Pressure - bar

Technical Information



Flow Characteristics R119-10J

Flow - SCFM

120

Flow - dm_n³/s

1-1/4 Inch Ports 100 PSIG (6.9 bar) Primary Pressure

400

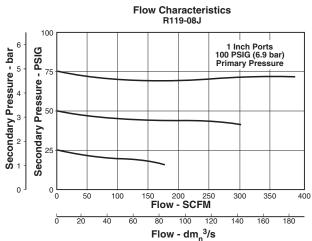
200

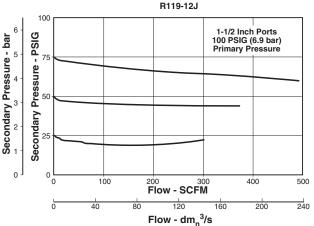
500

240

C91







Flow Characteristics

R119 Regulator Kits & Accessories

100

Gauges – 2" Dial Size, 1/4" Back Connection 0 to 60 psig (0 to 400 kPa)K4520N14060
2" Dial Size, 1/4" Back Connection 0 to 160 psig (0 to 1100 kPa)
2" Dial Size, 1/4" Back Connection 0 to 300 psig (0 to 2068 kPa)K4520N14300
Repair Kits – Non-Relieving Diaphragm, Valve Assembly (3/4", 1")RK118X20B
Non-Relieving Diaphragm, Valve Assembly (1-1/4", 1-1/2")RK118X20D
Relieving Diaphragm, Valve Assembly (3/4", 1")RK119X20B
Relieving Diaphragm, Valve Assembly (1-1/4", 1-1/2")RK119X20D
For Fluorocarbon Repair Kits, add X64 to Kit Number suffix.

Specifications

Port Threads			
Reduced Pressure Range – Adjustable to Within 5 to 7 psig of Supply Pressure			
Supply Pressure			
Air Consumption – Constant Bleed from Air Pilot Chamber: Approximately 0.17 SCFM (10 SCFH)			
Temperature Rating40°F to 125°F (4.4°C to 52°C)			
Weight – R119-06J, R119-08J			
R119-10J, R119-12J5.6 lb. (2.54 kg) / Unit 46 lb. (20.87 kg) / 8-Unit Master Pack			

Gauge Ports (2)1/4 Inch

Materials of Construction

Body, Ring, Top Plate	∠inc
Bottom Plug, Innervalve	Brass
Seals	Buna N



Produ Selecti

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Accessories Combos

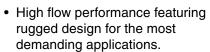
Catalog 0700P-E

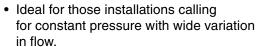
R119 Pilot Operated Regulators - Hi-Flow



Features

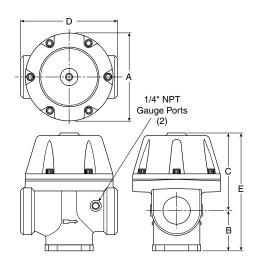
 Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible.





Piston operated design with balanced poppet and dual constant bleed for quick and accurate regulation.

High Flow: 2" & 2-1/2" – 1800 SCFM§



Davit Cina	NPT
Port Size	Relieving
Without Gauge 0-125 psig Reduced Pressure	
2"	R119-16J

2-1/2" R119-20J Standard part numbers shown bold. For other models refer to

§ SCFM = Standard Cubic Feet Per Minute at 100 psig Inlet, 75 psig No Flow Secondary Setting, and 20 psig Pressure Drop.

R119-16J, R119-20J Pilot Regulator Dimensions				
Α	В	С	D	Е
6.63	3.09	7.78	7.31	10.87
(168)	(79)	(147)	(185)	(276)

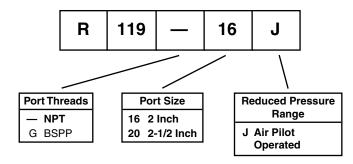
inches (mm)

⚠ WARNING

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

Ordering Information

ordering information below.



C92

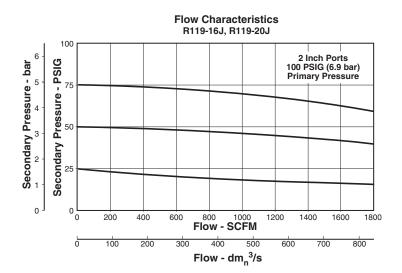
NOTE: Non-Relieving Not Available.

BOLD ITEMS ARE MOST POPULAR.



Pilot Controlled Regulators

Technical Information



R119 Regulator Kits & Accessories

Gauges –	
2" Dial Size, 1/4" Back Connection	
0 to 60 psig (0 to 400 kPa)	K4520N14060
2" Dial Size, 1/4" Back Connection 0 to 160 psig (0 to 1100 kPa)	K4520N14160
2" Dial Size, 1/4" Back Connection 0 to 300 psig (0 to 2068 kPa)	K4520N14300
Repair Kits – Piston Type Regulation (2", 2-1/2")	RK119G

Specifications

Gauge Ports (2)
Port Threads2, 2-1/2 Inch
Reduced Pressure Range – Adjustable to Within 5 to 7 psig of Supply Pressure
Supply Pressure
Air Consumption – Constant Bleed from Air Pilot Chamber: Approximately 0.17 SCFM (10 SCFH)
Constant Bleed from Reduced Pressure: Approximately 0.17 SCFM (10 SCFH)
Temperature Rating 40°F to 120°F (4.4°C to 48.9°C)
Weight – R119-16J, R119-20J 15 lb. (6.80 kg) / Unit

Materials of Construction

C93

Body, Piston	Aluminum
Seals	Buna N
Innervalve	Brass & Stainless



www.parker.com/pneumatics

15 lb. (6.80 kg) / 1-Unit Master Pack

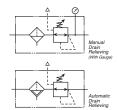
Prep-Air® II Air Preparation Units

Filter / Regulators

Filter / Regulators

• Pipe Sizes 1/8 thru 1-1/2 Inch

- Flows to 200 SCFM
- Pressures to 250 psig





Product Selection

Filters

Coalescers

Regulators Filter / Regulators

s Lubricators

Combos

Accessories

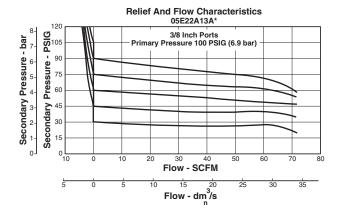
Integral Filter / Regulators are an excellent choice where accurate pressure regulation and high moisture removal efficiency are required in a space saving package.

- Miniature 14E Series, 1/8 and 1/4 Inch
- Miniature B34 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
- 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.
- Refer to flow chart and select filter/regulator by choosing the curve that offers minimum pressure drop at desired flow in SCFM.

Reading Flow Charts to Size Filter / Regulators



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

↑ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

CAUTION:

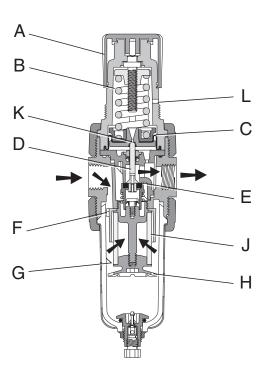
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

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



Filter / Regulator

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.)



Filters

Coalescers

Regulators

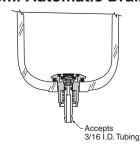
Filter / Regulators

Lubricators

Combos

Accessories

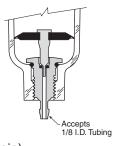
Semi Automatic Drain



(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.

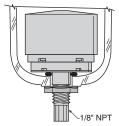
Automatic Pulse Drain



(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.

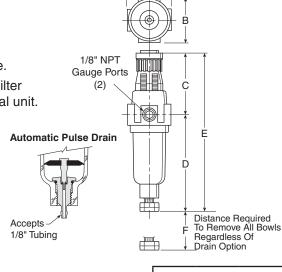
A manual override can be pushed in the bottom of the drain to unseat the float if particulates create a block.



Features

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

1/4" - 18 SCFM§



Port	NI	PT		
Size	Twist Drain	Automatic Pulse Drain		
Poly Bowl [‡]				
1/8"	14E01B13F*	14E05B13F*		
1/4"	14E11B13F*	14E15B13F*		
Metal Bowl				
1/8"	14E03B13F*	14E07B13F*		
1/4"	14E13B13F*	14E17B13F*		
Standard nart r	numbers shown hold. For a	other models refer to		

ordering information below.

‡For polycarbonate bowl see Caution on page C2.

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

14E

1

1

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

	ter / Re mensio	_
A 1.62 (41)	B 1.58 (40)	C 2.42 (61)
D 3.79 (96)	D [†] 3.64 (92)	E 6.21 (158)
E [†] 6.06 (154)	F 1.60 (41)	

Limited

Available Preset /

Pressure Limited

contact factory.

(Example:

065 = 65 psig

Range, 10 to 90 psig

in 5 psig increments.

For higher pressures,

Inches (mm) † With Auto Drain

Ordering Information

BOLD ITEMS ARE MOST POPULAR.

Port 0 1/8 1 1/4

Engineering Level

C96

Will be Entered at Factory

Blank No Options

- L[†] Preset Non-Adjustable
- Preset Adjustable
- Pressure Limiter Max. Adjustable
- Pressure Limiter Max.

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

									\
t Size	Ele	ements		Relief	Po	rt Type	/		/ Pressure
/8 Inch	A 4	0 Micron	F Relie	ving	Blan	k NPT	/	Li	mited
/4 Inch	B 5	Micron	G Non-	Relieving		1 BSPP		Blank	None
	l Z A	Adsorber	H* Low	Temp Relieving		2 BSPT	/	XXX*	Preset
			* Twist Drai	n Only.	Ι —		/		Pressure
Bowl O	ptions	Pre	ssure Range	Engin	eering	Opt	ions	XXX*	Pressure

13

В

Polycarbonate Bowl 1 Twist Drain

- 5 Automatic Pulse Drain
- Metal Bowl 3 Twist Drain 7 Automatic Pulse Drain

Pressure Range Without With <u>Gauge</u> Gauge* 15 30 psig 10 30 psig 11 60 psig 16 60 psig 12 15 psig 17 15 psig 13 125 psig 18 125 psig

Not available with BSPP or BSPT

Spring Type by Preset / Limited Pressure:

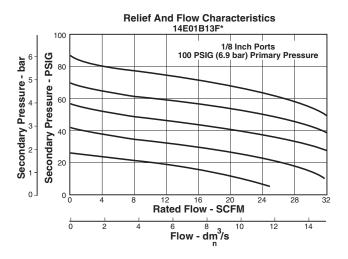
For Preset / Limited Pressure 10 to 25 use 30 PSI Spring For Preset / Limited Pressure 26 to 50 use 60 PSI Spring

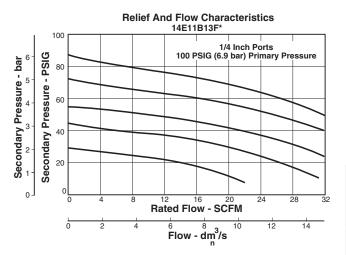
For Preset / Limited Pressure 51 to 90 use 125 PSI Spring



Filter / Regulators

Technical Information





CAUTION:

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

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

14E Filter / Regulator Kits & Accessories

Bonnet Tamperproof KitP01265
Bowl Kits –
Poly Bowl – Automatic Drain
Metal Bowl – Automatic Drain
Filter Element Kits – 40 Micron PS401P 5 Micron PS403P Adsorber PS452P
Gauges – 30 psig (0 to 2.1 bar) K4515N18030 60 psig (0 to 4.1 bar) K4515N18060 160 psig (0 to 11.0 bar) K4515N18160
Mounting Bracket Kit* (Includes Panel Mount Nut)PS417BP
Panel Mount Nut*P78652
Poppet / Piston Kits – Unbalanced, Non-RelievingPS428P Unbalanced, RelievingPS426P
Springs – 1- 15 psig Range (Yellow) P01176 1- 30 psig Range (Black) P01175 1- 60 psig Range (White) P01174 2- 125 psig Range (Gold) P01173
Specifications
Automatic Pulse Drain Tube Barb 1/8 Inch
Bowl Capacity1 Ounce
Gauge Ports (2) (Can be used for Full Flow)
Port Threads
*Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.

↑ WARNING

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

Pressure & Temperature Ratings -

Polycarbonate Bowl

0 to 150 psig (0 to 10.3 bar), 32°F to 125°F (0°C to 52°C)

0 to 250 psig (0 to 17.2 bar), 32°F to 175°F (0°C to 80°C)

Secondary Pressure Ranges -

Standard Pressure	2 to 125 psig (0 to 8.6 bar)
Medium Pressure	1 to 30 psig (0 to 2.1 bar)
Medium Pressure	1 to 60 psig (0 to 4.1 bar)
Low Pressure	1 to 15 psig (0 to 1 bar)
Weight	0.4 lb. (0.18 kg)

Materials of Construction

C97

Adjusting NutBrass
Adjusting Stem & SpringSteel
BodyZinc
Bonnet, Knob, Seat, Piston, Holder & DeflectorPlastic
Bowls Available - Transparent Polycarbonate Metal (Without Sight Gauge) Zinc
Drains – Manual – Twist Type Body & Stem
Automatic – Pulse Type Piston & SealsNitrile Stem, Seat, Adaptor & WashersAluminum
Filter Elements – 5 Micron (Standard)
SealsNitrile





B34 Miniature Filter / Regulator

Features

• Excellent Water Removal Efficiency

(Revised 03-26-12)

- Diaphragm Operated for Fast Operation
- Large Diaphragm to Valve Area for Precise Regulation and High Flow capacity
- Balanced Valve Design for Precise Regulation
- Space Saving Package Offers Both Filter and Regulator Features in One Integral Unit
- Non-rising Adjustment Knob
- High Flow: 1/8" 17 SCFM§ 1/4" – 19 SCFM§

	-
1/8" NPT Gauge Ports (2)	C
N	
	D
—	Distance Required To Remove All Bowls Regardless Of Drain Option

← A →

B34 Filter / Regulator Dimensions		
A 1.54 (39.2)	C 2.68 (68.1)	D 3.63 (92.1)
E 6.31 (160.2)	F 1.65 (41.9)	

Inches (mm) † With Auto Drain

Port	NPT
Size	Manual Twist Drain
Poly Bowl [‡]	
1/8"	B344-01AGC
1/4"	B344-02AGC
Metal Bowl wi	thout Sight Gauge
1/8"	B344-01DGC
1/4"	B344-02DGC

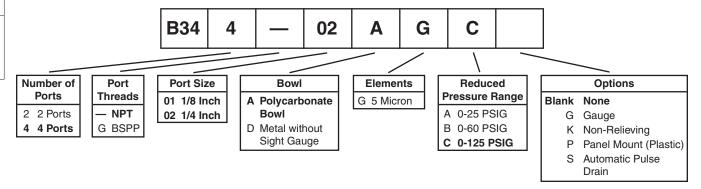
Bold Items are Most Popular.

For other models refer to ordering information below.

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

- ‡ For polycarbonate bowl see Caution on page 2.
- § SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 25% pressure drop.

Ordering Information



C98

BOLD ITEMS ARE MOST POPULAR.



Produc Selecti

Filters

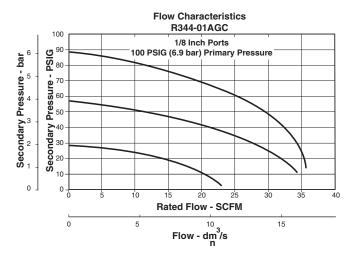
Coalescers

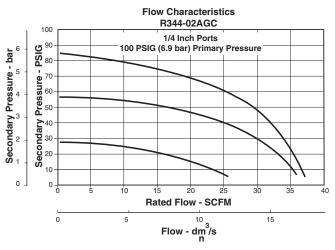
Regulators

Filter / Regulators

_ubricators

Technical Specifications – B34





⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

!CAUTION:

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

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

B34 Filter / Regulator Kits & Accessories

Adjusting KnobRRP-16-005-0	00
Bowl Kits –	
Zinc (D)BK50	5Y
Zinc with Automatic Pulse Drain (D)BK505	SY
Polycarbonate (A)BK50	
Polycarbonate with Automatic Pulse Drain (A)BK504	SY
Drain Kits –	
Automatic Pulse Drain	
(Maximum Pressure = 175 PSIG)RK504	SY
Filter Element Kits –	
5 Micron (All)FRP-96-7	29
Gauges –	
1-1/2" Dial Size, 1/8" Back Connection	
0 to 60 PSIG (0 to 400 kPa)K4515N180	60
1-1/2" Dial Size, 1/8" Back Connection	
0 to 160 PSIG (0 to 1100 kPa)K4515N181	60
Mounting Bracket Kit (Includes Plastic Panel Nut) SA161X	57
Panel Mount Nut –	
PlasticR05X51	-P
AluminumR05X51	-A
Repair Kits –	
Non-Relieving Diaphragm, Valve Assembly (All) GRP-96-7	26
Relieving Diaphragm, Valve Assembly (All)GRP-96-7	25
Springs –0-25GRP-95-1	111
0-60GRP-96-7	′18
0-125 GRP-96-7	′17

Specifications

-	
Bowl Capacity	1 Ounce
Gauge Ports (2)	1/8 Inch
Maximum Pressure –	
Zinc Bowl (D)	0 to 300 PSIG
Polycarbonate Bowl (A)	0 to 150 PSIG
Port Threads	1/8 &1/4 Inch
Reduced Pressure Range -	
0 to 25 PSIG	(0 to 1.7 bar) (A)
0 to 60 PSIG	(0 to 4.1 bar) (B)
	(0.15 to 8.5 bar) (C)
Temperature Rating	40°F to 125°F (4.4°C to 52°C)
Weight -	
Zinc Bowl (D)	
	12 lb. (5.44 kg) / 24-Unit Master Pack
Polycarbonate Bowl (A)	
	6 lb. (2.72 kg) / 24-Unit Master Pack

Materials of Construction

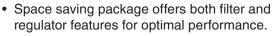
C99

Adjusting Knob	Acetal
Body	Aluminum
Bowls -	
Polycarbonate (A)	Polycarbonate
Metal (D)	Zinc
	Zinc with Automatic Pulse Drain
Elastomers	Buna N
Filter Element	Sintered Polyethylene
Filter Retainer, Vane Plate	Acetal
Innervalve, Diaphragm, Button, D	rainBrass

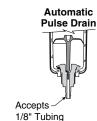


05E Filter / Regulator – Economy

Features

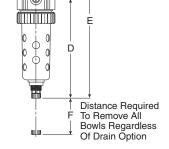


- Excellent water removal efficiency.
- Rolling diaphragm for extended life.
- · Removable non-rising knob for tamper resistance.
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.
- · 40 micron filter element standard and 5 micron available.
- High Flow: 1/4" 30 SCFM[§] 3/8" - 40 SCFM§



1/4" NPT Gauge Ports

(2)



	3/0 - 40 30	I IVI°
Ni	PT	
Twist Drain	Automatic Pulse Drain	

Poly Bowl [‡] / Metal Guard		
1/4"	05E12A13A*	05E1PA13A*
3/8"	05E22A13A*	05E2PA13A*
Metal Bowl / Sight Gauge		
4 / 4 !!		
1/4"	05E14A13A*	_

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

- ‡ For polycarbonate bowl see Caution on page C2.
- §SCFM = Standard cubic feet per minute at 100 psig inlet,
- 90 psig no flow secondary setting and 10 psig pressure drop.

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

⚠ WARNING

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

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

Limited

None

Preset

Pressure

Pressure

Limited

Blank

XXX*

 XXX^*

(Example:

065 = 65 psig

Available Preset / Pressure Limited

higher pressures, contact factory.

Range, 10 to 90 psig in

5 psig increments. For

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

Ordering 13 05E 2 Α Α Information Preset / Pressure

Port Size

1 1/4 Inch 2 3/8 Inch

Elements A 40 Micron B 5 Micron

Relief A Relieving L Non-Relieving

C100

Port Type Blank **NPT BSPP**

1/4 & 3/8 inch meet

Bowl Options Polycarbonate Bowl

- 2 Metal Bowl Guard / Twist Drain
- P Metal Bowl Guard / Auto Pulse Drain Metal Bowl
- 3 Twist Drain
- 4 Sight Gauge / Twist Drain
- R Automatic Pulse Drain

Pressure Range Without Gauge* <u>Gauge</u> 60 psig 16 60 psig 125 psig 18 125 psig 19[§] 200 psig 200 psig

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

Engineering Level Will be

Entered at Factory

Options Blank No Options

- L[†] Preset Non-Adjustable
- Preset Adjustable
- Pressure Limiter Max. Adjustable Pressure Limiter Max. Non-Adj.
- Inlet Pressure is 100 psig. For other pressures, contact factory.

Spring Type by Preset / Limited Pressure:

For Preset / Limited Pressure 26 to 50 use 60 PSI Spring For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

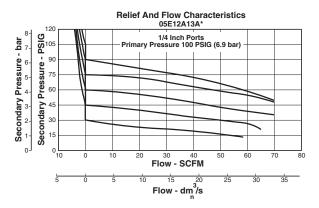
BOLD ITEMS ARE MOST POPULAR.

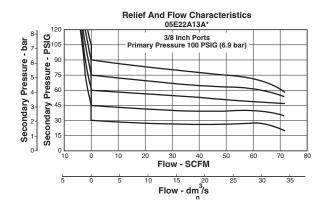


Filters

Port

Size





CAUTION:

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

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

05E Filter / Regulator Kits & Accessories

05E Filter / Regulator Kits & Accessories
Bowl Guard KitPS905P
Bowl Kits -
Poly Bowl - Automatic Pulse DrainPS995P
Twist DrainPS932P
Metal Bowl – Automatic Pulse DrainPS997P
Twist DrainPS934P
Sight Gauge / Automatic Pulse Drain PS996P
Sight Gauge / Twist DrainPS935P
Drain Kit – Automatic Pulse Drain
Semi-Auto Drain PS998P
Twist Drain PS512P
Push 'N' Drain
Filter Element Kits – 40 MicronPS901P
5 Micron
AdsorberPS931P
Sight Gauge KitPS914P
Gauges – 1-1/2" Dial Face
30 psig (0 to 2.1 bar)K4515N14030
60 psig (0 to 4.1 bar)K4515N14060
160 psig (0 to 11.0 bar)K4515N14160
300 psig (0 to 20.0 bar)K4515N14300
2" Dial Face
60 psig (0 to 4.1 bar)K4520N14060
160 psig (0 to 11.0 bar)K4520N14160
300 psig (0 to 20.0 bar)K4520N14300
Mounting Bracket Kit (Includes Panel Mount Nut)PS963P
Panel Mount Nut – MetalPS964P
Springs – 1-30 psig RangeP04427
1-60 psig RangeP04426
2-125 psig RangeP04425
2-200 psigP02934
Relieving Service KitPS908P
Non-Relieving Service KitPS909P
Bonnet Assembly KitPS915P

Specifications

Bowl Capacity	2.0 Ounces
Gauge Port (2)	1/4 Inch
Sump Capacity	0.9 Ounce
Port Threads	1/4, 3/8 Inch
Pressure & Temperature Rating –	
Polycarbonate Bowl -	- 0 to 150 psig (0 to 10.3 bar)
•	000E ++ 40E0E (00C ++ E00C)

Weight 1.35 lb. (0.6 kg)

Polycarbonate Bowl – 0 to 150 psig (0 to 10.3 bar) 32°F to 125°F (0°C to 52°C) Metal Bowl – 0 to 250 psig (0 to 17.2 bar) 32°F to 175°F (0°C to 80°C) Automatic Pulse Drain – 10 to 150 psig (0.7 to 10.3 bar)

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



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Coalescers

Regulators

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Lubricators

Combos





06E Filter / Regulator – Compact

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Accessories

Features

- Space saving package offers both filter and regulator features for optimal performance.
- · Excellent water removal efficiency.

(Revised 08-09-11)

- 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§

A B	
1/4" NPT Gauge Ports C	
n F	
Distance Require F To Remove All Begardless Of Regardless Of Unain Option	d wls

Port	NPT	
Size	Twist Drain	Automatic Float Drain
Poly Bowl [‡] / N	/letal Guard	
1/4"	06E12A13A*	06E16A13A*
3/8"	06E22A13A*	06E26A13A*
1/2"	06E32A13A*	06E36A13A*
Metal Bowl / Sight Gauge		
1/4"	06E14A13A*	06E18A13A*
3/8"	06E24A13A*	06E28A13A*
1/2"	06E34A13A*	06E38A13A*

Dimensions			
Α	В	С	D
2.81	2.74	4.69	5.69
(71)	(70)	(119)	(145)
D [†] E E [†] F			
5.74	10.38	10.43	2.25
(146)	(264)	(265)	(57)

06E Filter / Regulator

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

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

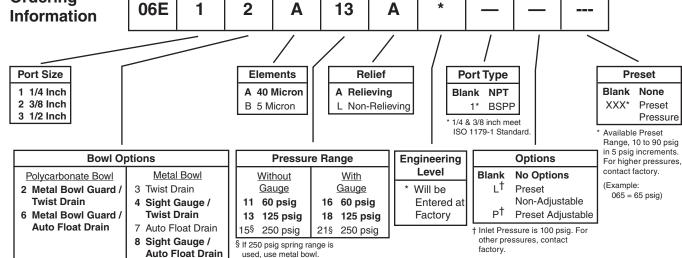
- For polycarbonate bowl see Caution on page C2.
- SCFM = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

NOTE: 2.00 Dia. (50.8 mm) hole required for panel mounting.

♠ WARNING

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

Max. panel thickness 1/4". Ordering 2 06E 1 13 Α Α

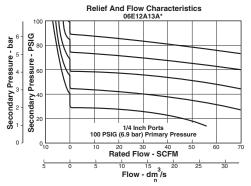


BOLD ITEMS ARE MOST POPULAR.



For Preset / Limited Pressure 26 to 50 use 60 PSI Spring For Preset / Limited Pressure 51 to 90 use 125 PSI Spring





CAUTION:

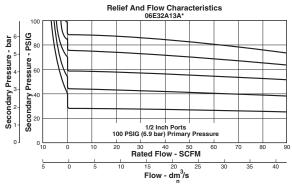
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

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

06E Filter / Regulator Kits & Accessories

Bonnet Assemb	bly Kit	PS715P	
Bowl Guard Kit		PS705P	
Bowl Kits -			
Poly Bowl -	Automatic Float Drain	PS722P	
	Twist Drain	PS732P	
Metal Bowl -	Automatic Float Drain	PS726P	
	Semi-Auto Drain		
	Twist Drain		
	Sight Gauge / Automatic Drain		
	Sight Gauge / Twist Drain	PS735P	
Control Knob		P04069B	
Drain Kits -	Automatic Float Drain	PS506P	
	Semi-Auto Drain	PS511P	
	Twist Drain		
	Push 'N' Drain	PS513P	
Filter Element I	Kits - 40 Micron	PS701P	
	5 Micron	PS702P	
	Adsorber	PS731P	
	sig (0 to 4.1 bar)		
	psig (0 to 11.0 bar)		
300	psig (0 to 20.0 bar)	K4520N14300	
Mounting Brack	ket Kit (Includes Panel Mount Nut)	PS707P	
Panel Mount Nu	ıt	P04082	
Service Kits -	Non-Relieving (Includes Poppet)	PS711P	
	Relieving (Includes Poppet)	PS710P	
Seat Insert Kit .		PS713P	
Springs - 1-30	psig Range	P01698	
1- 60	psig Range	P04062	
2- 12	25 psig Range	P04063	
5- 25	50 psig Range	P04064	
Tamperproof K	it (Key Lock)	PS737P	
Specifica	tions		

(Can be used as Additional Full Flow 1/4" Outlet Ports)



Pressure & Temperature Ratings -

S

S

C103

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

Secondary Pressure Ranges –	
Standard Pressure	2 to 125 psig (0 to 8.6 bar)
Low Pressure	1 to 60 psig (0 to 4.1 bar)
High Pressure	5 to 250 psig (0.4 to 17.2 bar)
Sump Capacity	1.75 Ounces
Voight	16 lb (0.7 kg)

Materials of Construction

Materials of Construction	
Adjusting Stem	Steel
Body	Zinc
Bonnet, Internal Parts	Plastic
Bowls Available - Transparent	Polycarbonate
Metal (With or Without Sight Gauge	e)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	
Housing, Float	
Seals	
Springs, Push Rod	
Knob	
Filter Elements – 40 Micron (Standard)	
5 Micron (Optional)	
Adsorber (Optional)	
Seals	
Sight Gauge	•
Springs - Poppet	
Control	Steel



Bowl Capacity ...

Product Selection

Filters

Coalescers

/ Regulators

Filter / Regulato

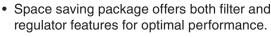
Combos Lubricators

Accessories

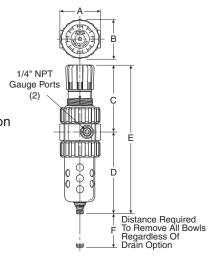
07E Filter / Regulator – Standard



Features



- 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: 1/2" 90 SCFM§ 3/4" – 90 SCFM§



Port	NPT		
Size	Twist Drain	Automatic Float Drain	
Poly Bowl [‡] / Metal Guard			
1/2"	07E32A13A*	07E36A13A*	
3/4"	07E42A13A*	07E46A13A*	
Metal Bowl / S	Sight Gauge		
1/2"	07E34A13A*	07E38A13A*	
3/4"	07E44A13A*	07E48A13A*	

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

- ‡ For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

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

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

Inches (mm) † With Auto Float Drain

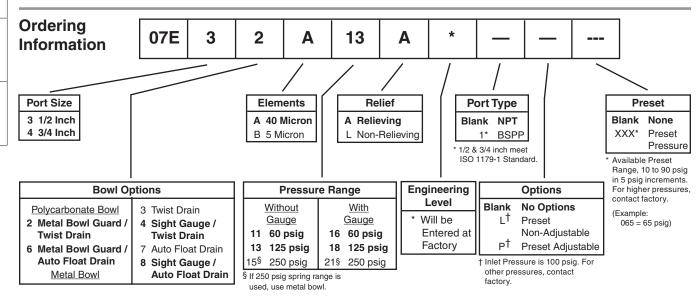
↑ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Spring Type by Preset / Limited Pressure:



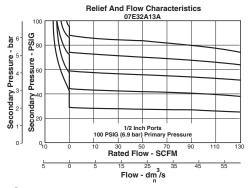
BOLD ITEMS ARE MOST POPULAR.



For Preset / Limited Pressure 26 to 50 use 60 PSI Spring

For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

Technical Specifications – 07E



CAUTION:

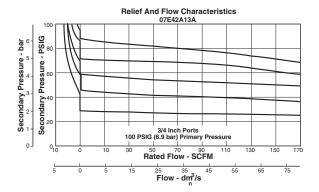
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

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

07F Filter / Regulator Kits & Accessories

ore riller r negulator Kits & Accessories			
Bonnet Assemi	bly Kit	PS715P	
Bowl Guard Kit		PS805P	
Bowl Kits -			
Poly Bowl -	Automatic Float Drain	PS822P	
	Twist Drain	PS832P	
Metal Bowl -	Automatic Float Drain	PS826P	
	Semi-Auto Drain	PS894P	
	Twist Drain		
	Sight Gauge / Automatic Drain	PS823P	
	Sight Gauge / Twist Drain	PS835P	
Control Knob	P04069B		
Drain Kits -	Automatic Float Drain	PS506P	
	Semi-Auto Drain	PS511P	
	Twist Drain	PS512P	
	Push 'N' Drain	PS513P	
Filter Element I	Cits - 40 Micron	PS801P	
	5 Micron		
	Adsorber	PS831P	
Gauges - 60 p	osig (0 to 4.1 bar)	K4520N14060	
160	psig (0 to 11.0 bar)	K4520N14160	
300	psig (0 to 20.0 bar)	K4520N14300	
Mounting Brack	ket Kit (Includes Panel Mount Nut)	PS807P	
Panel Mount Nu	ıt	P04082	
Service Kits -	Non-Relieving (Includes Poppet)	PS811P	
	Relieving (Includes Poppet)	PS810P	
Seat Insert Kit		PS813P	
Springs - 1-30	psig Range	P01698	
	psig Range		
2- 12	25 psig Range	P04063	
5- 25	50 psig Range	P04064	
Tamperproof K	it (Key Lock)	PS737P	
Specifica	tions		

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



Pressure & Temperature Ratings -

Polycarbonate Bowl - 0 to 150 psig (0 to 10.4 bar) 32°F to 125°F (0°C to 52°C)

Metal Bowl - 0 to 250 psig (0 to 17.2 bar) 32°F to 175°F (0°C to 80°C)

Automatic Float Drain - 15 to 250 psig (1.0 to 17.2 bar)

Secondary Pressure Ranges -

S

C105

Standard Pressure	2 to 125 psig (0 to 8.6 bar)
Low Pressure	1 to 60 psig (0 to 4.1 bar)
High Pressure	5 to 250 psig (0.4 to 17.2 bar)
Sump Capacity	2.8 Ounces
Veight	2.5 lb. (1.1 kg)

Materials of Construction

Advertise Otem	011
Adjusting Stem	
Body	
Bonnet, Internal Parts	
Bowls Available - Transparent	
Metal (With or Without Sight Gaug	•
Bowl Guard	Steel
Collar	Plastic or Metal
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	,
Housing, Float	
Seals	
Springs, Push Rod	
Knob	
Filter Elements – 40 Micron (Standard)	
5 Micron (Optional)	
Adsorber (Optional)	
Seals	Nitrile
Sight Gauge	Polyamide
Springs - Poppet	
Control	Steel



Product Selection

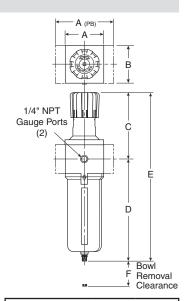
P3NE Filter / Regulator – Hi-Flow

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§



Port Size	NPT	
Port Size	Twist Drain	Automatic Float Drain
Metal Bowl / Sight Gauge		
3/4"	P3NEA96GSMBNN	P3NEA96GSABNN
1"	P3NEA98GSMBNN	P3NEA98GSABNN
1-1/2"*	P3NEA9PGSMBNN	P3NEA9PGSABNN

Standard part numbers shown bold. 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.

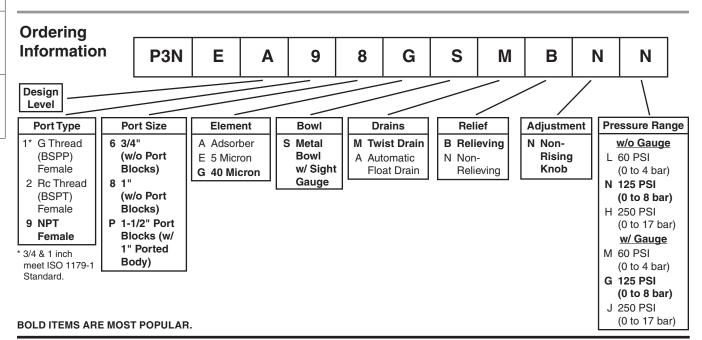
P3NE Filter / Regulator Dimensions			
A 3.62 (92)	A (PB) 5.91 (150)	B 3.62 (92)	C 6.38 (162)
p † 9.57 (243)	E [†] 15.95 (405)	F 4.92 (125)	

Inches (mm)

† With Twist Drain or Auto Float Drain

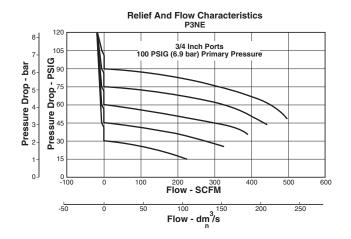
⚠ WARNING

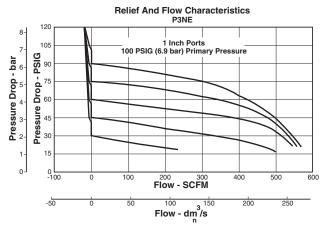
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.



Filter / Regulators

Technical Information

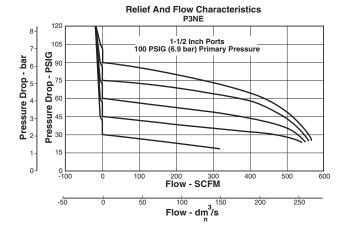




CAUTION:

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

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



P3NE Filter / Regulator Kits & Accessories

Bowl Kits –
Metal Bowl - Sight Gauge / Automatic Float Drain.P3NKA00BSA
Sight Gauge / Twist Drain P3NKA00BSM
Sight Gauge / Push 'N' DrainP3NKA00BSP
Bowl Latch KitC11A33
Control KnobP3NKA00PN
Drain Kit - Automatic Float DrainPS506P
Semi-Auto DrainPS511P
Twist DrainPS512P
Push 'N' DrainPS513P
Filter Element Kits - 40 MicronP3NKA00ESG
5 Micron P3NKA00ESE
AdsorberP3NKA00ESA
Gauges – 60 psig (0 to 4.1 bar)K4520N14060
160 psig (0 to 11.0 bar)K4520N14160
300 psig (0 to 20.0 bar)K4520N14300
Mounting Bracket Kit*P3NKA00MW
Service Kit – RelievingP3NKA00RR
Non-RelievingP3NKA00RN
Sight Gauge Kit
Springs – 1-60 psig RangeC10A1304
2-125 psig Range
5-250 psig Range

* 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 Rar	nges see above charts.
Automatic Float Drain	- 15 to 250 psig (1.0 to 17.2 bar)
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)

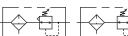
Materials of Construction

C107

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.	



12E Filter / Regulator - Coalescing



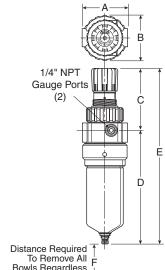


Features

- 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: Grade 6 Element 3/8" - 35 SCFM§ 1/2" - 40 SCFM§

3/4" - 45 SCFM§



Distance Required To Remove All F Bowls Regardless Of Drain Option

Port Size	NPT
Twist Drain	
3/8"	12E23E13A*
1/2"	12E33E13A*
3/4"	12E43E13A*
Automatic Flo	at Drain
3/8"	12E27E13A*
1/2"	12E37E13A*
3/4"	12E47E13A*

Size	
Twist Drain	
3/8"	12E23E13A*
1/2"	12E33E13A*
3/4"	12E43E13A*
Automatic Flo	at Drain
3/8"	12E27E13A*
1/2"	12E37E13A*
3/4"	12E47E13A*
Standard part numbers shown hold. For other models refer to	

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

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

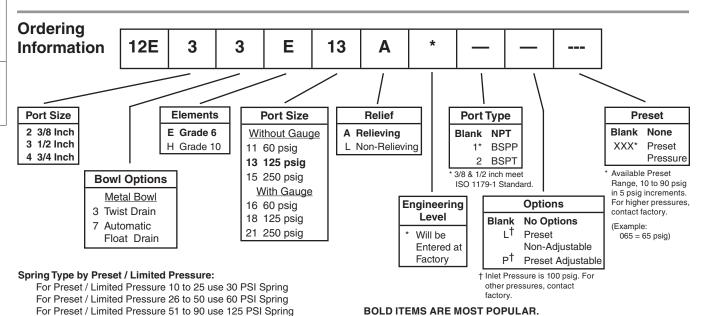
12E Filter / Regulator Dimensions			
A	B	C	D
3.24	3.25	4.79	8.20
(82)	(83)	(122)	(208)
D [†]	E	E [†] 12.96 (329)	F
8.17	12.99		3.29
(208)	(330)		(84)

Inches (mm)

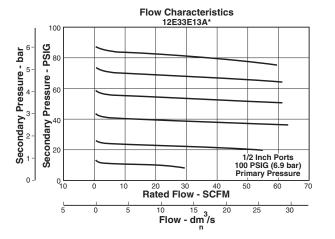
† With Twist Drain or Auto Float Drain

⚠ WARNING

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



Regulators



CAUTION:

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

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

12E Filter /	Regulator	Kits &	Accessories
--------------	-----------	--------	--------------------

Bonnet Assembly Kit			
Bowl Kits –			
Metal Bowl –	Automatic Float Drain Twist Drain Push 'N' Drain	PS834P	
Control Knob	P04069B		
Drain Kits –	Automatic Float DrainTwist DrainPush 'N' Drain	PS512P	
Filter Element	Kits - Grade 6Grade 10		
Gauges – 60 psig (0 to 4.1 bar) K4520N14060 160 psig (0 to 11.0 bar) K4520N14160 300 psig (0 to 20.0 bar) K4520N14300			
Mounting Bracket Kit (Includes Panel Mount Nut) PS807P			
Service Kit – 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

7.2 Ounces
1/4 Inch
rts)
1/2, 3/4 Inch

Pressure & Temperature Ratings -

Metal Bowl - 0 to 250 psig (0 to 17.2 bar) 32°F to 175°F (0°C to 80°C)

C109

Secondary Pressure Ranges -

Standard Pressure	
Low Pressure	1 to 60 psig (0 to 4.1 bar)
High Pressure	5 to 250 psig (0.4 to 17.2 bar)
Sump Capacity	2.8 Ounces
Weight	2.5 lb. (1.1 kg)

Materials of Construction
Adjusting StemSteel
BodyZinc
Bonnet, Internal Parts Plastic
Bowls Available – Metal (Without Sight Gauge)Zinc
Collar For Bonnet Metal
Control SpringSteel
DiaphragmNitrile
Drains - Manual Twist Drain Standard Body & Nut Plastic
Manual Push 'N' Drain Optional BodyNitrile StemBrass
Automatic Float Drain Optional (Interchangeable for Field Conversions) Operating Range
Knob
Filter Element – Borosilicate & felt glass fibers 99.97% DOP efficiency Largest Aerosol Particle Passed (Grade 6)0.75 Microns Largest Solid Particle Passed (Grade 6)

Sight Gauge Polyamide Springs – Poppet Stainless



Product	Selection

Coalescers

Regulators

Lubricators

Combos

Micro-Mist Lubricators

- Pipe Sizes 1/4 thru 3/4 Inch
- Flows to 500 SCFM
- Pressures to 250 psig

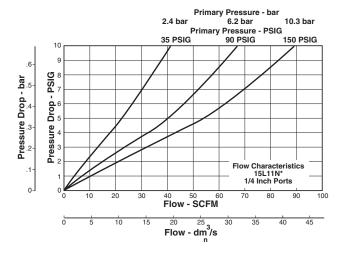
Micro-Mist Air Lubricators are designed to provide optimum and uniform lubrication with fine micro-mist particles of 2 micron or smaller, to pneumatic components even through complex piping arrangements.

- 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.

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.

F442 Oil



Quantity	Part Numbers
1 Quart	F442001
1 Gallon	F442002
12 Quart Case	F442003
4 Gallon Case	F442005

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.)



Prep-Air® II Air Preparation Units

Lubricators

Micro-Mist

The Micro-Mist lubricators inject a micro-mist of oil into the flowing air stream to automatically provide the correct amount of internal lubrication for air tools and other pneumatic devices. This type of lubricator can be precisely adjusted to a very low oil flow rate because only a portion of the oil drops seen in the sight dome goes downstream. The lubricator should be used where only a very minute amount of lubricant is desirable or where it is necessary for the oil to remain in suspension in the air stream for long distances.

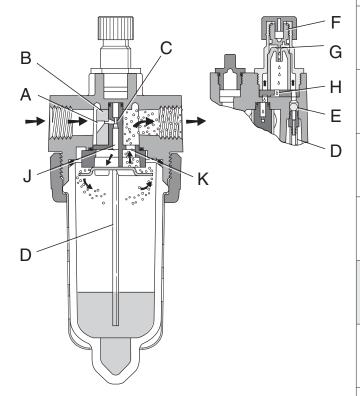
However, a proportion of the inlet air passes through the venturi, assuring that oil delivery increases linearly with increased air flow rate. This proportioning method is advantageous at low inlet flows because the venturi design remains efficient.

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.

Operation

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

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





Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos

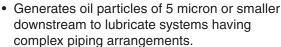
15L Micro-Mist Lubricators – Economy

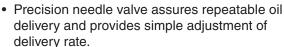
Coalescers

Regulators

Features

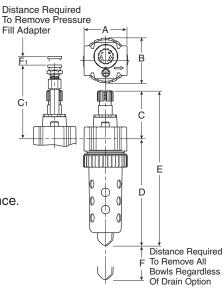






- · Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- Removable drip control knob for tamper resistance.
- High Flow: 1/4" 40 SCFM§ 3/8" - 40 SCFM§





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 † .39 (10)		

A B C	C ₁
2.00 2.06 2.26 (51) (52) (57)	3.35 (85)
D D† E 5.12 5.35 7.38 (130) (136) (187)	E † 7.61 (193)
F F† 1.77 .39 (45) (10)	

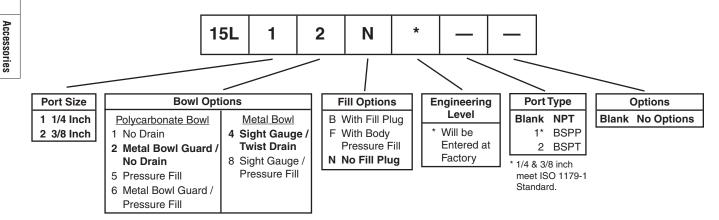
Inches (mm) † With Twist Drain.

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

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

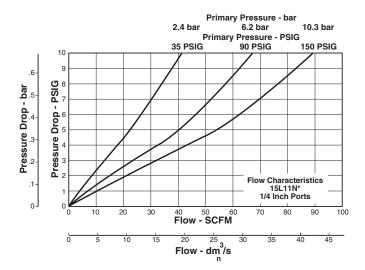
- [‡] For polycarbonate bowl and sight dome, see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

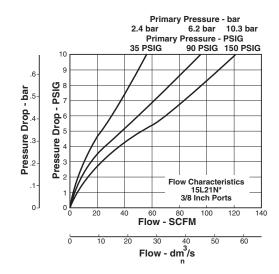
Ordering Information



C112







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	
4 Gallon Case	.F442005
Pressure Fill Adapter Kit	PS916P
Service Kit	PS948P
Sight Dome Kit	PS740P
Sight Gauge Kit	PS914P

opcomoations	
Bowl Capacity	2.0 Ounces
Minimum Flow for Lubrication	2 SCFM at 100 psig

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)

Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93 $\,$

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

Materials of Construction

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



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Specifications

Compact 16L Series

16L Micro-Mist Lubricators – Compact



Coalescers

Regulators

Accessories

Features

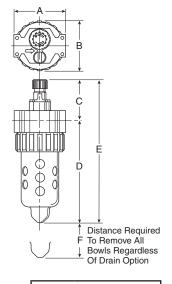
- Proportional oil delivery over a wide range of air flows.
- Generates oil particles of 5 micron or smaller downstream to lubricate systems having complex piping arrangements.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- · Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.

(Revised 08-09-11)

- Yellow fill cap identifies Micro-Mist Lubricator.
- High Flow: 1/4" 40 SCFM §

3/8" - 60 SCFM §

1/2" - 90 SCFM §



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)	

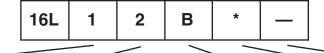
Inches (mm) †With Twist Drain.

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

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

- [‡] For polycarbonate bowl and sight dome, see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

Ordering Information



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

Polycarbonate Bowl 2 Metal Bowl Guard / No Drain

Bowl Options

- 6 Metal Bowl Guard / Pressure Fill
- K Metal Bowl Guard / Auto Fill Device
- N Metal Bowl Guard / Twist Drain

Metal Bowl 4 Sight Gauge / Twist Drain

- 8 Sight Gauge / Pressure Fill
- 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 Will be Entered at

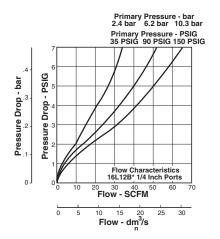
Factory

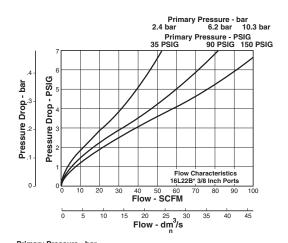
Blank NPT 1* BSPP

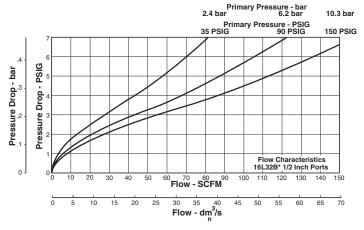
Port Type

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









16L Micro-Mist Lubricator Kits & Accessories

Adjustment Kr	nob	P04121
Bowl Guard Ki	t	PS705P
Bowl Kits -		
Poly Bowl –	No Drain	PS717P PS719P
Metal Bowl –	Sight Gauge / Twist Drain Sight Gauge / Pressure Fill	
Drain Kit – Twis	st Drain	PS512P
Fill Cap Kit		PS742P
Lubricator Ser	vice Kit	PS748P
Mounting Brad	ket Kit	PS743P
Oil – 1 Gal 12 Quart 4 Gallon (Case	F442002 F442003 F442005
	lapter Kit	
	utton	_
	Fill Device	
Sight Dome / I	Fill Cap Kit	PS739P
-	t	
Nylon Sight Do	ome Kit	PS740N

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)



Produc Selectic

Filters

Coalescers

Regulators

riiter/ legulators

Lubricators

Compos

Standard 17L Series

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.

(Revised 08-09-11)

- Yellow fill cap identifies Micro-Mist Lubricator.
- High Flow: 1/2" 90 SCFM§ 3/4" - 90 SCFM§

В	
F To Rer	ce Required nove All Regardless in Option

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

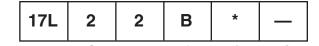
Inches (mm) † With Twist Drain.

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

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

- [‡] For polycarbonate bowl and sight dome, see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

Ordering Information



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

Coalescers

Regulators

Filter/ Regulators

Combos

Accessories

Polycarbonate Bowl 2 Metal Bowl Guard / No Drain

6 Metal Bowl Guard / Pressure Fill

Bowl Options

- K Metal Bowl Guard / Auto Fill Device
- N Metal Bowl Guard / Twist Drain

Metal Bowl 4 Sight Gauge /

- **Twist Drain** 8 Sight Gauge / Pressure Fill
- 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

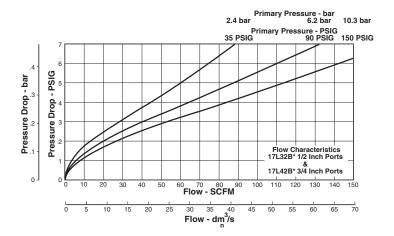
Engineering Level

Will be Entered at Factory

Port Type Blank NPT 1 BSPP

*1/2 inch meets ISO 1179-1 Standard.





(Revised 08-09-11)

17L Micro-Mist Lubricator **Kits & Accessories**

Adjustment Kn	nob	P04121
Bowl Guard Ki	t	PS805P
Bowl Kits -		
Metal Bowl –	No Drain Twist Drain Pressure Fill Remote Fill Sight Gauge / Twist Drain Sight Gauge / Pressure Fill	PS817P PS819P PS828P PS829P
	st Drain	
•	vice Kit	
Mounting Brac	ket Kit	PS843P
12 Quart (Case	F442003
Pressure Fill A	dapter Kit	PS716P
Pressure Fill B	utton	P11912
Remote Auto-F	Fill Device	PS505CP
Sight Dome / F	Fill Cap Kit	PS739P
Sight Dome Kit	t	PS740P
Nylon Sight Do	ome Kit	PS740N

Specifications

Bowl Capacity4.9 Ounces
Minimum Flow for Lubrication 1 SCFM at 100 psig
Port Threads 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 LubricantF442 Oil
Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C)
and an aniline point greater than 200°F (93°C)
(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS
CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR
SYNTHETIC OILS.)
Weight 1.9 lb. (.9 kg)

Materials of Construction

C117

bouy	∠IFIC
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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Regulators

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Lubricators

Mist Lubricators

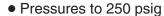
Air Preparation Units

Prep-Air® II

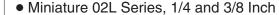
Mist Lubricators

• Pipe Sizes 1/8 thru 2 Inch





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

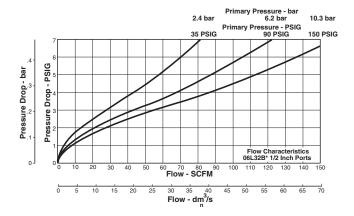


- Miniature 04L Series, 1/8 and 1/4 Inch
- Compact 06L Series, 1/4, 3/8 and 1/2 Inch
- Standard 07L Series, 3/8, 1/2 and 3/4 Inch
- Hi-Flow P3NL Series, 3/4, 1 and 1-1/2 Inch
- Hi-Flow L606 Series, 3/4, 1, 1-1/4 and 1-1/2 Inch
- Hi-Flow 09L Series, 2 Inch

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.

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.

F442 Oil



Quantity	Part Numbers
1 Quart	F442001
1 Gallon	F442002
12 Quart Case	F442003
4 Gallon Case	F442005

Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C)

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





Mist Lubricators

Lubricators

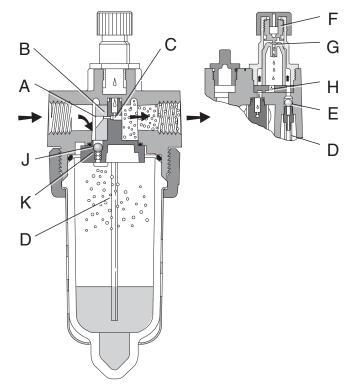
Mist

These lubricators inject an oil aerosol into the flowing air stream to automatically provide the proper amount of internal lubrication to air operated tools or other pneumatic devices.

Operation

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.





Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos



Product Selection

ters

Coalescers

Regulators

Filter/ Regulators

ators



1/4" & 3/8" - Basic 1/4" Body

02L Lubricator - Miniature

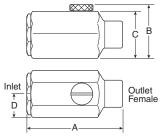


Features

- 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

In-Line Lubricators assure proper lubrication for small pneumatic hand tools. These in-line lubricators put the oil source right at the tool. Oil capacity is 1/4 oz. (1 ml), enough to last through an average 8-hour shift. This lubricator requires cyclical or intermittent airflow for proper operation, and consequently works best when installed at the tool inlet or on a short hose near the tool. The 02L cannot be filled under pressure.



Dimensions

Part Number	Α	В	С	D
02LFB	2.65	1.305	1.125	.65
UZLFB	(67)	(33)	(28.5)	(16.5)
02L1B	2.93	1.305	1.125	.65
UZLIB	(74)	(33)	(28.5)	(16.5)
02L2B	3.19	1.305	1.125	.65
UZLZB	(81)	(33)	(28.5)	(16.5)

Inches (mm)

Ordering Information

Port Size	Female Threads Inlet / Female Threads Outlet	Female Threads Inlet / Male Threads Outlet
1/4"	02LFB	02L1B
3/8"	N/A	02L2B

Specifications

Flow Capacity*		29 SCFM (13.6 dm ³ /s)
	(3/8)	30 SCFM (14.2 dm ³ /s)
Operating Temp	erature	32° to 150°F (0° to 65.5°C)
Maximum Supp	ly Pressure	200 psig (13.8 bar)
Oil Capacity		0.25 oz. (7.4 cm ³)
Port Size		1/4, 3/8 NPT / BSPT
Weight		

* Inlet pressure 90 psig (6.2 bar). Pressure drop 5 PSID (0.3 bar).

Materials of Construction

Body	Aluminum
Seals	Nitrile

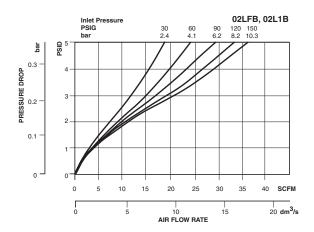
Suggested Lubricant F442 Oil

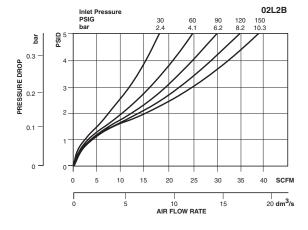
Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C) (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR

Replacement Kits

SYNTHETIC OILS.)

Fill Plug Kit – Brass Fill Plug and O-ring	PS434
O-ring Repair Kit	PS435







Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos



04L Mist Lubricators - Miniature

\leftarrow

Filters

Coalescers

Regulators

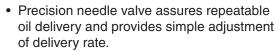
Filter / Regulators

Combos

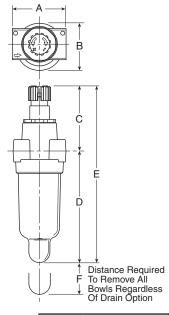
Features



(Revised 09-14-11)



- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- High Flow: 1/8" 20 SCFM§ 1/4" – 20 SCFM§



04L Lubricator Dimensions				
A 1.73 (44)	1.73 1.56			
D 3.64 (92)	D † 3.78 (96)	E 5.80 (147)		
E [†] F 5.94 1.60 (151) (41)				

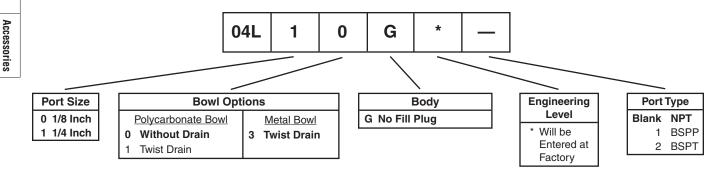
Inches (mm)
† With Twist Drain.

Port	NPT	
Size	Twist Drain	No Drain
Poly Bowl ‡		
1/8"	_	04L00G*
1/4"	_	04L10G*
Metal Bowl without Sight Gauge		
1/8"	04L03G*	_
1/4"	04L13G*	_

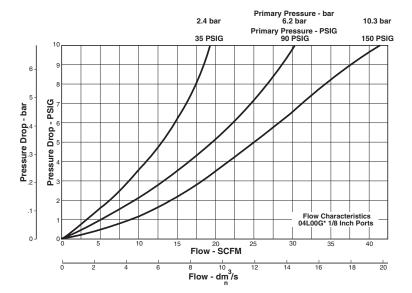
Standard part numbers shown bold. For other models refer to ordering information below.

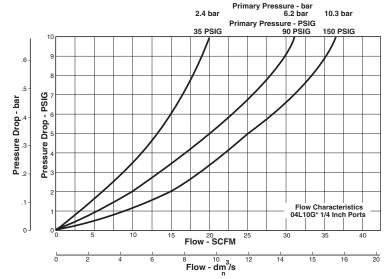
- [‡] For polycarbonate bowl and sight dome, see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

Ordering Information









04L 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	PS419
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	1/8, 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)

Suggested Lubricant -F442 Oil

Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C).

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

Materials of Construction

Body	Zinc
Bowls - Transparent	Polycarbonate
Metal (Without Sight Gauge)	Zinc
Drains - Twist - Body & Nut	Plastic
Seals	Nitrile
Sight Dome	Polycarbonate



Filters

Coalescers

Regulators

Lubricators

Combos



1/4", 3/8", 1/2" - Basic 3/8" Body

06L Mist Lubricators – Compact

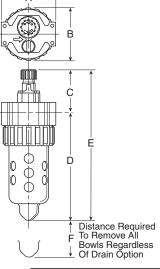
Features

 Proportional oil delivery over a wide range of air flows.

(Revised 08-09-11)

- · 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§



06L Lubricator Dimensions		
A 2.81 (71)	B 2.74 (70)	2.2 (5)
D 5.58 (142)	D † 5.69 (145)	7.8 (19
E † 7.93 (201)	F 2.25 (57)	

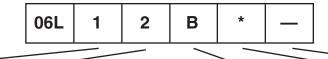
Inches (mm) †With Twist Drain.

Port	NI	PT		
Size	Twist Drain	No Drain		
Poly Bowl ‡ / Metal	Poly Bowl [‡] / Metal Guard			
1/4"	_	06L12B*		
3/8"	_	06L22B*		
1/2"	_	06L32B*		
Metal Bowl / Sight Gauge				
1/4"	06L14B*	_		
3/8"	06L24B*	_		
1/2"	06L34B*	_		

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

- [‡] For polycarbonate bowl and sight dome, see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

Ordering Information



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

Coalescers

Regulators

Filter / Regulators

Accessories

Polycarbonate Bowl 2 Metal Bowl Guard / No Drain

Bowl Options

- 6 Metal Bowl Guard / Pressure Fill
- K Metal Bowl Guard / Auto Fill Device
- N Metal Bowl Guard / Twist Drain

Metal Bowl 4 Sight Gauge / **Twist Drain**

- 8 Sight Gauge / Pressure Fill
- 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

Will be Entered at Factory

Port Type Blank NPT 1* BSPP

C

2.24

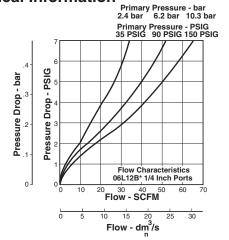
(57)

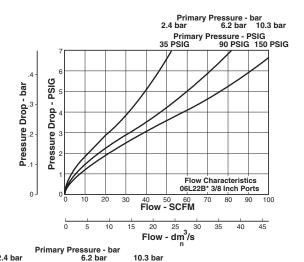
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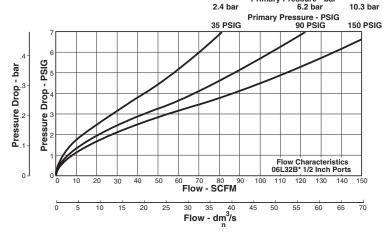
7.82 (199)

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









C125

06L Mist Lubricator Kits & Accessories

Adjustment Knob	P04121
Bowl Guard Kit	PS705P
Bowl Kits –	
Poly Bowl – No Drain	PS717P PS719P PS728P
Sight Gauge / Pressure Fill	
Drain Kit – Twist Drain	PS512P
Fill Cap Kit	PS741P
Lubricator Service Kit	PS718P
Mounting Bracket Kit	PS743P
Oil – 1 Gal	F442003
Pressure Fill Adapter Kit	PS716P
Pressure Fill ButtonP11	
Remote Auto-Fill Device	PS505CP
Sight Dome / Fill Cap KitPS738	
Sight Dome KitPS74	
Nylon Sight Dome Kit	PS740N

Specifications

· •			
Bowl Capacity	2.9 Ounces		
Minimum Flow for Lubrication5	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 1	25°F (0°C to 52°C)		
Metal Bowl – 0 to 250	psig (0 to 17.2 bar)		
32°F to 1	75°F (0°C to 80°C)		
Suggested LubricantF442 Oil			
Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C)			
(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS			
CONTAINING SOLVENTS, GRAPHITE, DETER	GENTS, OR		
SYNTHETIC OILS.)			
Weight	1.2 lb. (0.5 kg)		
Materials of Construction			
Body	Zinc		
Bowls - Transparent	Polycarbonate		
Metal (With Sight Gauge)	Zinc		
Bowl Guard			
Collar	Plastic		
Drain - Twist - Body & Nut			
Injector Meter Block & Base Assembly			

 Sight Dome
 Polycarbonate

 Sight Gauge
 Polyamide (Nylon)



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Regulators

Filter/ Regulator

Lubricators

Combos

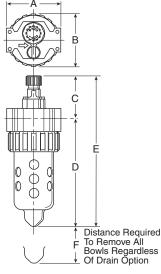
07L Mist Lubricators - Standard

Features

 Proportional oil delivery over a wide range of air flows.

(Revised 08-09-11)

- 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: 1/2" 90 SCFM§ 3/4" – 90 SCFM§



Port	NPT	
Size	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard		
1/2"	_	07L32B*
3/4"	_	07L42B*
Metal Bowl / Sight Gauge		
1/2"	07L34B*	_
3/4"	07L44B*	_

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

- [‡] For polycarbonate bowl and sight dome, see Caution on page C2.
- § 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)	p † 6.95 (177)	E 9.09 (231)
E † 9.35 (237)	F 2.75 (70)	

Inches (mm)

† With Twist Drain.

Ordering Information



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

Coalescers

Regulators

Filter / Regulators

Combos

Accessories

Polycarbonate Bowl

2 Metal Bowl Guard / No Drain

Bowl Options

- 6 Metal Bowl Guard / Pressure Fill
- K Metal Bowl Guard / Auto Fill Device
- N Metal Bowl Guard / Twist Drain

Metal Bowl 4 Sight Gauge / Twist Drain

- 8 Sight Gauge / Pressure Fill
- 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

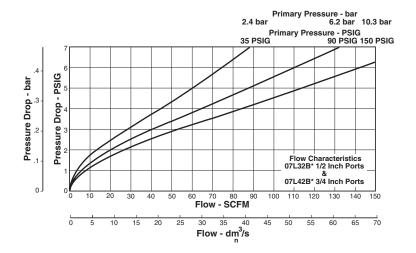
Engineering Level

* Will be Entered at Factory

Port Type Blank NPT 1* BSPP

* 1/2 inch meets ISO 1179-1 Standard.





(Revised 08-09-11)

07L Mist Lubricator Kits & Accessories

Adjustment KnobP		
Bowl Guard KitPS8	805P	
Bowl Kits –		
Poly Bowl – No DrainPS8		
Twist DrainPS8		
Pressure Fill PS8		
Remote FillPS8		
Metal Bowl – Sight Gauge / Twist DrainPS8		
Sight Gauge / Pressure FillPS8		
Drain Kit – Twist DrainPS5	512P	
Fill Cap KitPS7	'41P	
Lubricator Service KitPS7	'18P	
Mounting Bracket KitPS8	343P	
Oil – 1 GalF442	2002	
12 Quart CaseF442	2003	
4 Gallon CaseF442	2005	
Pressure Fill Adapter KitPS7	'16P	
Pressure Fill ButtonP11	1912	
Remote Auto-Fill Device PS5050		
Sight Dome / Fill Cap KitP		
Sight Dome KitPS7	'40P	
Nylon Sight Dome KitPS7	'40N	

Specifications

C127

	pacity	
Minimum	Flow for Lubrication	5 SCFM At 100 psig
Port Thre	ads	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 2	250 psig (0 to 17.2 bar)
	32°F	to 175°F (0°C to 80°C)
Suggeste	ed Lubricant	F442 Oil
	um based oil of 100 to 200 SSU visco aniline point greater than 200°F (93°C	
,	OT USE OILS WITH ADDITIVES, CO	
	INING SOLVENTS, GRAPHITE, DET ETIC OILS.)	TERGENTS, OR
Weight		1.9 lb. (0.9 kg)
Materi	ials of Construction	
Body		Zinc
	Transparent	
Bowls - 7	Transparent Metal (With Sight Gauge)	Polycarbonate
Bowls - 7	Transparent	Polycarbonate
Bowls – 7 N Bowl Gua	Metal (With Sight Gauge)	Polycarbonate Zinc Steel
Bowls – T N Bowl Gua Collar	Metal (With Sight Gauge)ard	Polycarbonate Zinc Steel Plastic or Metal
Bowls – T Bowl Gua Collar Drain – T	Vetal (With Sight Gauge)ard	Polycarbonate Zinc Steel Plastic or Metal Plastic
Bowls – 1 Bowl Gua Collar Drain – To Injector M	Metal (With Sight Gauge) ard wist – Body & Nut Meter Block & Base Assembly	Polycarbonate Zinc Steel Plastic or Metal Plastic Plastic
Bowls – Towns of the second se	Vetal (With Sight Gauge)ard	Polycarbonate Zinc Steel Plastic or Metal Plastic Plastic Plastic Nitrile

Sight Gauge Polyamide (Nylon)



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P3NL Mist Lubricators – Hi-Flow

Features

Coalescers

Regulators

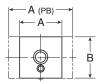
Filter/ Regulators

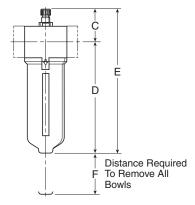
Combos

Accessories

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§





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

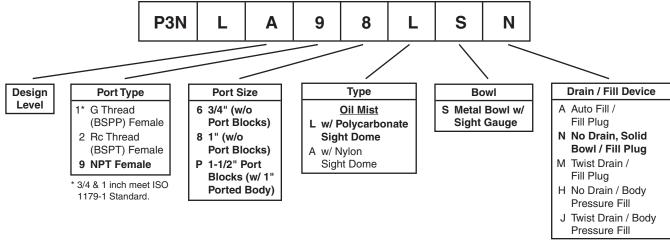
Standard part numbers shown bold. For other models refer to ordering information below

- # 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)	А РВ 5.91 (150)	B 3.62 (92)	
C 2.81 (71)	D 9.00 (229)	E 11.81 (300)	
F 4.92 (125)			

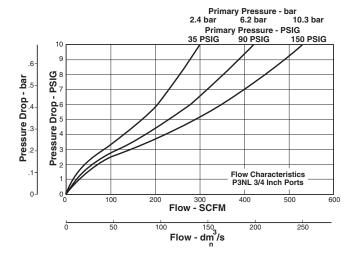
Inches (mm)

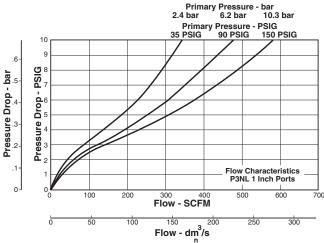
Ordering Information

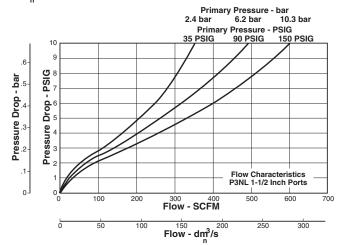


C128









P3NL Lubricator Kits & Accessories

Adjustment Knob	P04121
Bowl Kits –	
Metal Bowl – Sight Gauge / Twist DrainP3	
Metal Bowl – Sight Gauge / No Drain P3	NKA00BSN
Bowl Latch Kit	C11A33
Drain Kit – Twist Drain	PS512P
Fill Cap Kit	P3NKA00PL
Sight Dome Kit - Polycarbonate	PS740P
Nylon	PS740N
Sight Gauge Kit	3NKA00PE
Pressure Fill Adapter Kit	3NKA00PK
Service Kit	23NKA00RL
Mounting Bracket Kit* PS	3NKA00MW
Oil - 1 Gal	F442002
12 Quart Case	F442003
4 Gallon Case	F442005

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

Specifications

David Canacity	10.0.0		
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 (38°C) and an aniline point greater than 200°F (93°C).			
(DO NOT USE OILS WITH ADDITIVE CONTAINING SOLVENTS, GRAPHIT SYNTHETIC OILS.)	*		

Weight - 3/4 Inch......3.5 lb. (1.6 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&}quot; Port Body with 1-1/2" Port Block.

C129



C

Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

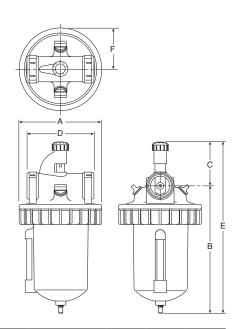
Lubricators

Compos

L606 Standard Lubricators

Features

- Metal Bowl with Sight Gauge Standard
- Polycarbonate Sight Dome
- Bowl can be Filled while Air Line is **Under Pressure**
- Proportional Oil Delivery Over a Wide Range of Air Flows
- Large Capacity Bowl
- Optional High Capacity Bowl(s) Available
- Precision Needle Valve Assures Repeatable Oil Delivery and Provides Simple Adjustment of Delivery Rate
- High Flow: 3/4" 325 SCFM§ 1" - 350 SCFM§



Port Size	Size NPT BSP			
Zinc Bowl /	Sight Gauge / Drain			
3/4"	L606-06W	L606G06W		
1"	L606-08W	L606G08W		
Aluminum Bowl 32 oz. without Sight Gauge, With Drain				
3/4"	L606-06E L606G			
1"	L606-08E	L606G08E		
Aluminum Bowl 64 oz. with Sight Gauge, No Drain				
3/4"	4" L606-06G L606G06G			
1" L606-08G		L606G08G		

L606 Lubricator Dimensions					
Α	В	С	D	E	F
	L60	6-06W,	L606-0	08W	
4.97 (126)	7.25 (184)	2.63 (66.7)	4.06 (103)	9.88 (251)	2.48 (63.1)
	L606-06E, L606-08E				
4.97 (126)	10.75 (273)	2.63 (66.7)	4.06 (103)	13.38 (340)	2.48 (63.1)
L606-06G, L606-08G					
5.00 (127)	9.40 (239)	2.62 (66)	4.06 (103)	12.02 (305)	2.50 (64)
inches					

inches (mm)

Bold Items are Most Popular.

Coalescers

Regulators

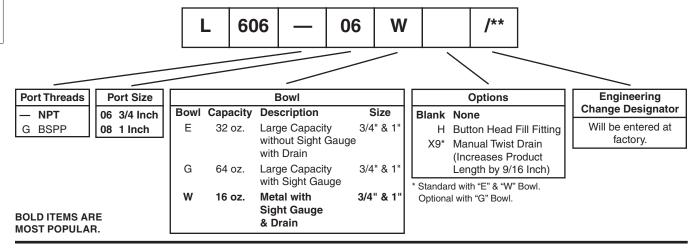
Filter/ Regulators

Accessories

For other models refer to ordering information below.

§ SCFM = Standard cubic feet per minute at 100 psig inlet, and 5 psig pressure drop.

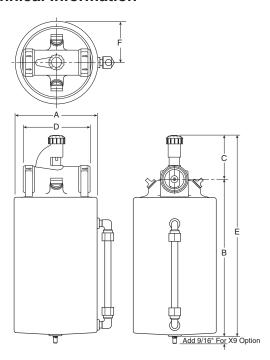
Ordering Information





Air Line Mist Lubricators

Technical Information



L606-08G

L606 Lubricator Kits & Accessories

L606 Lubricator Kits & Accesso	ories
Adjusting Knob	606Y72
Bowl Kits -	
Aluminum (E)	BK603B
Aluminum with Sight Gauge (G)	BK606X30B
Zinc with Sight Gauge (W)	BK609WB
Button Head Fill Fitting (M14 male thread)	L606C14
Dip Tube Kit	DTK606
Drip Spout Kit	RK606SY
Mounting Bracket -	
3/4 Inch units (2 required per unit)	SA200AW57
1 Inch units (2 required per unit)	SA200CW57
Oil –1 Gal	F442002
12 Quart Case	
4 Gallon Case	
Repair Kits –	
Needle Valve Assembly (All)	RK606Y
Sight Gauge Bowl Repair Kit (W)	RKB605WB
Sight Gauge Bowl Repair Kit (G)	
Specifications	
Bowl Capacity –	
Aluminum (E)	32 Ounces
Aluminum with Polycarbonate Sight Gauge (G	
Zinc with Nylon Sight Gauge (W)	

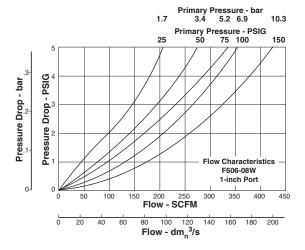
Aluminum Bowl (E)0 to 300 psig (0 to 20.4 bar)

Polycarbonate Sight Gauge (G) 0 to 150 psig (0 to 10.2 bar)

40°F to 150°F (4.4°C to 65.6°C)

40°F to 125°F (4.4°C to 52°C)

C131



Zinc Bowl with Nylon Sight Gauge (W) 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)
Weight -
Aluminum Bowl (E)5.5 lb. (2.49 kg) / Unit
22.3 lb. (10.12 kg) / 4-Unit Master Pack
Aluminum Bowl with Polycarbonate Sight Gauge (G)7.2 lb. (3.27 kg) / Unit 28.8 lb. (13.06 kg) / 4-Unit Master Pack
Zinc Bowl with
Nylon Sight Gauge (W)
Suggested LubricantF442 Oil

retroleum based on or 100 to 200 550 viscosity at 100 F (36°C)
and an aniline point greater than 200°F (93°C).
(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS
CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR
SYNTHETIC OILS.)

Materials of Construction

Body	Zinc
Bowls -	
(E)	Aluminum
(G)	Aluminum with Polycarbonate Sight Gauge
(W)	Zinc with Nylon Sight Gauge
Seals	Buna N



Aluminum Bowl with

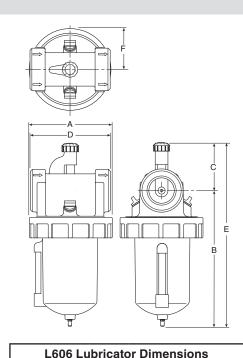
Pressure & Temperature Ratings -

www.parker.com/pneumatics

L606 Standard Lubricators

Features

- Metal Bowl with Sight Gauge Standard
- Polycarbonate Sight Dome
- Bowl can be Filled while Air Line is Under Pressure
- Proportional Oil Delivery Over a Wide Range of Air Flows
- Large Capacity Bowl
- Optional High Capacity Bowl(s) Available
- Precision Needle Valve Assures Repeatable Oil Delivery and Provides Simple Adjustment of Delivery Rate
- High Flow: 1-1/4" 325 SCFM§ 1-1/2" - 400 SCFM§



Port Size	NPT BSPP			
Zinc Bowl /	Sight Gauge / Drain			
1-1/4" L606-10W L606G		L606G10W		
1-1/2"	L606-12W	L606G12W		
Aluminum Bowl 32 oz. without Sight Gauge, With Drain				
1-1/4"	L606-10E L606G10E			
1-1/2"	L606-12E	L606G12E		
Aluminum Bowl 64 oz. with Sight Gauge, No Drain				
1-1/4"	L606-10G	L606G10G		
1-1/2"	L606-12G	L606G12G		

Α	В	С	D	E	F
L606-10W, L606-12W					
4.97	7.63	2.84	4.81	10.47	2.48
(126)	(194)	(72.2)	(122)	(266)	(63.1)
L606-10E, L606-12E					
4.97	11.13	2.84	4.81	13.97	2.48
(126)	(283)	(72.2)	(122)	(255)	(63.1)
L606-10G, L606-12G					
5.00	7.99	2.84	4.81	12.80	2.50
(127)	(203)	(72.2)	(122)	(325)	(64)
inches					

inches (mm)

Bold Items are Most Popular.

Coalescers

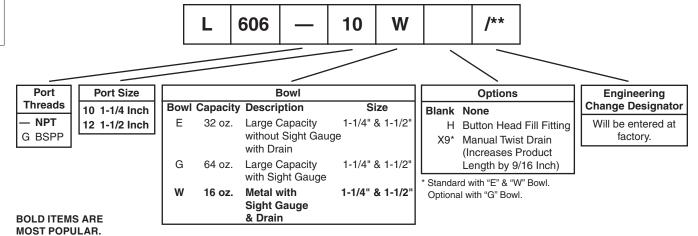
Regulators

Filter/ Regulators

Accessories

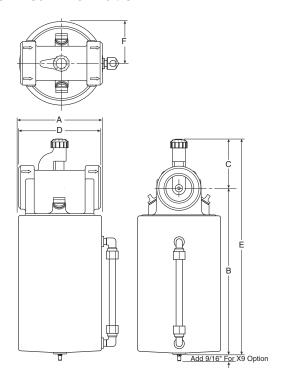
For other models refer to ordering information below.

Ordering Information





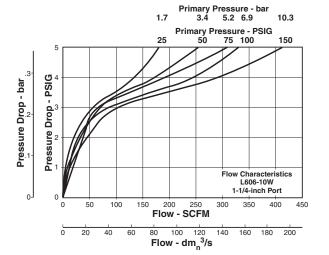
[§] SCFM = Standard cubic feet per minute at 100 psig inlet, and 5 psig pressure drop.

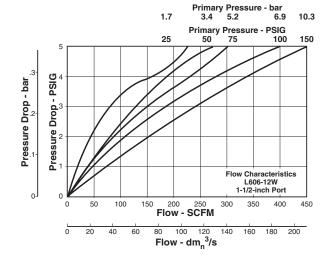


L606-12G

L606 Lubricator Kits & Accessories

Adjusting Knob
Bowl Kits – Aluminum (E)
Button Head Fill Fitting (M14 male thread)L606C14
Dip Tube KitDTK606
Drip Spout KitRK606SY
Oil –1 Gal. F442002 12 Quart Case. F442003 4 Gallon Case. F442005
Repair Kits – Needle Valve Assembly (All)RK606Y Sight Gauge Bowl Repair Kit (W)RKB605WB Sight Gauge Bowl Repair Kit (G)RKB606X30B
Specifications
Bowl Capacity – Aluminum (E)
Port Threads 1-1/4, 1-1/2 Inch
Pressure & Temperature Ratings – Aluminum Bowl (E) 0 to 300 psig (0 to 20.4 bar) 40°F to 150°F (4.4°C to 65.6°C)
Aluminum Bowl with Polycarbonate Sight Gauge (G) 0 to 150 psig (0 to 10.2 bar) 40°F to 125°F (4.4°C to 52°C)
Zinc Bowl with Nylon Sight Gauge (W) 0 to 250 psig (0 to 17.2 bar) 40°F to 150°F (4.4°C to 65.6°C)





Weight – Aluminum Bowl (E)
Aluminum Bowl with Polycarbonate Sight Gauge (G)10 lb. (4.54 kg) / Unit 40 lb. (18.14 kg) / 4-Unit Master Pack Zinc Bowl with
Nylon Sight Gauge (W)
Suggested LubricantF442 Oil

and an aniline point greater than 200°F (93°C). (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)

Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C)

Materials of Construction

C133

Body	Zinc
Bowls -	
(E)	Aluminum
(G)	Aluminum with Polycarbonate Sight Gauge
(W)	Zinc with Nylon Sight Gauge
Seals	Buna N



09L Mist Lubricators - Hi-Flow

Coalescers

Regulators

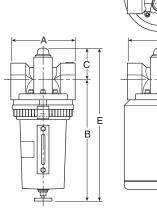
Filter/ Regulators

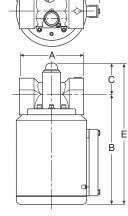
Combos

Accessories

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 §





Port Size	NPT		
Metal Bowl / Sight	t Gauge – 1 Quart		
2"	09L84B*		
Metal Bowl / Sight Gauge – 3 Quart			
2"	09L8PB*		

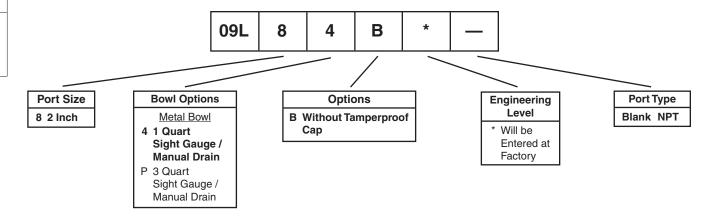
Standard part numbers shown bold. For other models refer to ordering information below.

§ SCFM = Standard Cubic Feet Per Minute at 900 psig Inlet, and 5 psig Pressure Drop.

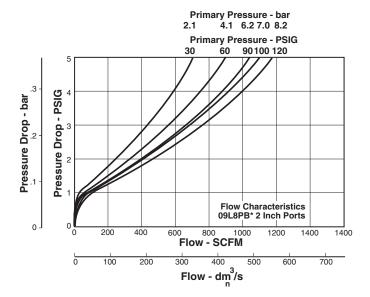
09L Lubricator Dimensions						
	Α	В	С	D	E	F
1 Qt.	5.50 (140)	10.40 (264)	2.64 (67)		13.04 (331)	_
	Α	В	С	D	E	
3 Qt.	5.50 (140)	9.44 (240)	2.64 (67)	6.00 (152)	12.08 (307)	7.12 (181)

Inches (mm)

Ordering Information







09L Lubricator Kits & Accessories

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

^{* 1} Quart Bowl

Specifications

C135

Opecinications	
Bowl Capacity	
BowlMetal with Sight Gau	ge
Drain	ain
Port Threads2 In	ich
Pressure & Temperature Rating 0 to 150 psig (0 to 10.3 b 32° F to 150°F (0°C to 66°	
Suggested LubricantF442	Oil
Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C).)
(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR SYNTHETIC OILS.)	
Weight –1 Qt	
Materials of Construction	
BodyZinc Alloy, Die Ca	ast



Filters

Coalescers

Regulators

Filter / Regulato

Lubricators

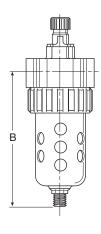
Combos

Remote Auto-Fill Device



Features

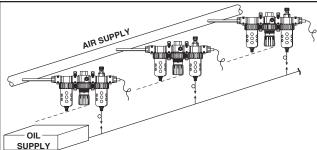
- Wide operating range (oil supply to inlet may be 30 to 270 psig; air operating pressure depends on bowl used).
- · Rugged polyurethane float design.
- · Complete field conversion kit.
- Adaptable on polycarbonate and metal bowls already in service.
- · Oil supply strainer standard.
- Fits 06L / 16L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



Dimensions

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

Inches (mm)



Operation

Filters

Coalescers

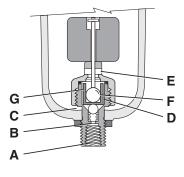
Regulators

Filter / Regulators

Lubricators

Combos

Accessories



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 Capacity4.9 Ounces Minimum Flow for Lubrication 1 SCFM At 100 psig

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 / Sight Gauge -0 to 250 psig (0 to 17.2 bar) 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 LubricantF442 Oil

Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C).

(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. (0.9 kg)

Materials of Construction

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



Close Nippled Combinations – 14 Miniature Series

• See individual component pages for details.

Two-Unit Combo

Series

14G

Coalescers

Regulators

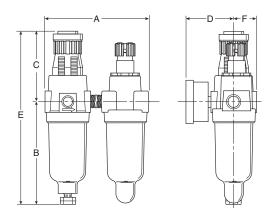
Filter / Regulators



Port	Model Numbers
1/8"	14G01B13F0G*

14G11B13F0G*

1/4" For other models, refer to ordering information on next page.



Α	В	С	D	Е	F
3.75	3.79	2.42	2.04	6.21	0.79
(95)	(96)	(61)	(52)	(158)	(20)

Inches (mm)

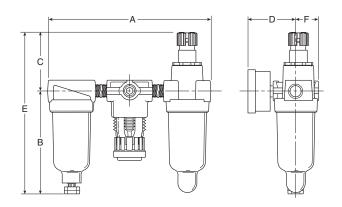
Note: All dimensions nominal.

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

Three-Unit Combo

Series	Port	Model Numbers
14 A	1/8"	14A01B13F0G*
	1/4"	14A11B13F0G*

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



Α	В	С	D	E	F
5.77	3.82	2.16	2.04	5.98	0.79
(147)	(97)	(55)	(52)	(152)	(20)

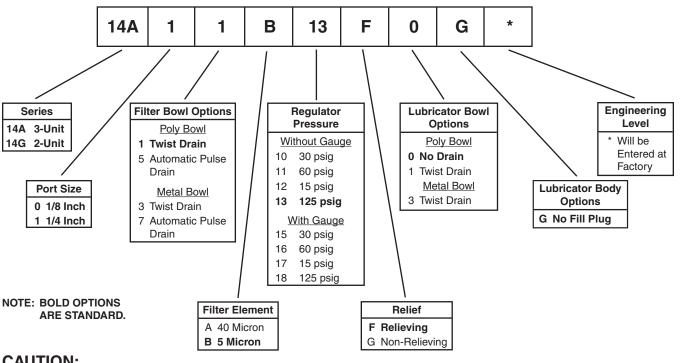
Inches (mm)

Note: All dimensions nominal.



Close Nippled Combinations – 14 Miniature Series

Ordering Information



CAUTION:

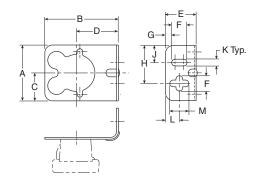
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

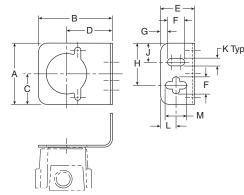
For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

⚠ WARNING

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

For polycarbonate bowl and sight dome, see Caution on page C2.





PS417BP

(Includes Panel Mount Nut)

PS419

Dimensions

Α	В	С	D	E	F	G	Н	J	K	L	М	Kit
1.80	2.37	0.90	1.35	1.00	0.50	0.20	1.24	0.56	0.22	0.45	0.62	PS417BP (10F, 14F, P3A, 14R, 14E)
(46)	(60)	(23)	(34)	(25)	(13)	(5)	(31)	(14)	(6)	(11)	(16)	
1.80	2.17	0.90	1.35	1.00	0.50	0.20	1.24	0.56	0.22	0.45	0.62	PS419
(46)	(55)	(23)	(34)	(25)	(13)	(5)	(31)	(14)	(6)	(11)	(16)	(04L)

C139

Inches (mm)



Filters

Coalescers

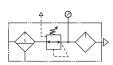
Regulators

Lubricators

Close Nippled Combinations – 05 Economy Series

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

Two-Unit Combo

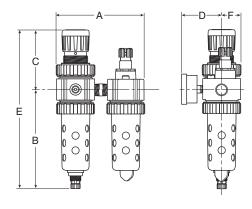




Y	

Series	Port	Model Numbers		
15G	1/4"	15G12A13A2N*		
15G	3/8"	15G22A13A2N*		

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



Α	В	С	D	Е	F
4.49	5.35	3.16	2.05	8.50	1.03
(114)	(136)	(80)	(52)	(216)	(26)

Inches (mm)

Note: All dimensions nominal.

Three-Unit Combo

Coalescers

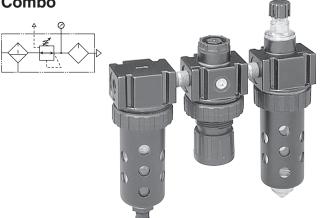
Regulators

Filter / Regulators

Lubricators

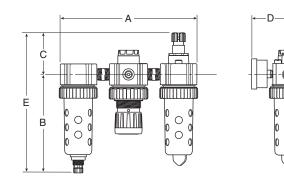
Combos

Accessories



Series	Port	Model Numbers
15A	1/4"	15A12A13A2N*
15A	3/8"	15A22A13A2N*

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



Α	В	С	D	Е	F
7.00	5.35	2.24	2.05	7.59	1.03
(178)	(136)	(57)	(52)	(193)	(26)

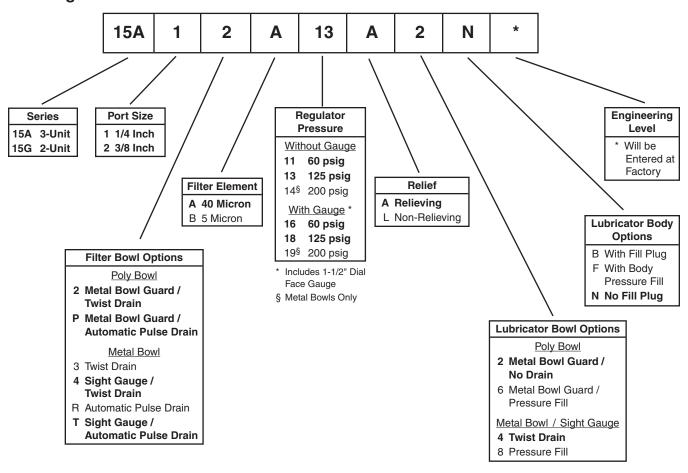
Inches (mm)

Note: All dimensions nominal.



Close Nippled Combinations – 05 Economy Series

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

CAUTION:

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

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

⚠ WARNING

Filters

Coalescers

Regulators

Lubricators

Combos

Accessories

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

For polycarbonate bowl and sight dome, see Caution on page C2.

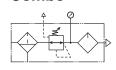
Kits & Accessories (See individual component sections for other kits and accessories.)



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.

Two-Unit Combo





A1 J A (Without Port Blocks) B 280 x .430 (7mm x 11mm) Slot

Series	Port	Model Numbers
15H	1/4"	15H12A13A2N*
	3/8"	15H22A13A2N*

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

A	A ₁	B	C	D	E	F
4.33	6.38	5.35	3.15	2.05	8.50	1.45
(110)	(162)	(136)	(80)	(52)	(216)	(37)
G 2.60 (66)	H 1.14 (29)	J 4.72 (120)				

Inches (mm)

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

Three-Unit Combo

Coalescers

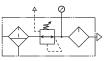
Regulators

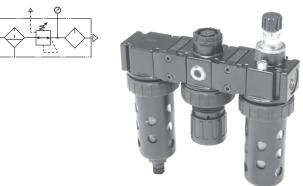
Filter / Regulators

Lubricators

Combos

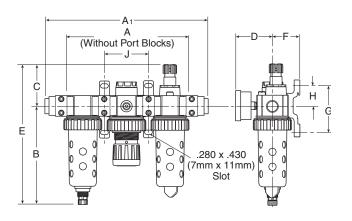
Accessories





Series	Port	Model Numbers
15B	1/4"	15B12A13A2N*
	3/8"	15B22A13A2N*

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



A	A ₁	B	C	D	E	F
6.70	8.72	5.35	2.24	2.05	7.59	1.45
(170)	(222)	(136)	(57)	(52)	(193)	(37)
G 2.60 (66)	H 1.14 (29)	J 2.35 (600)				

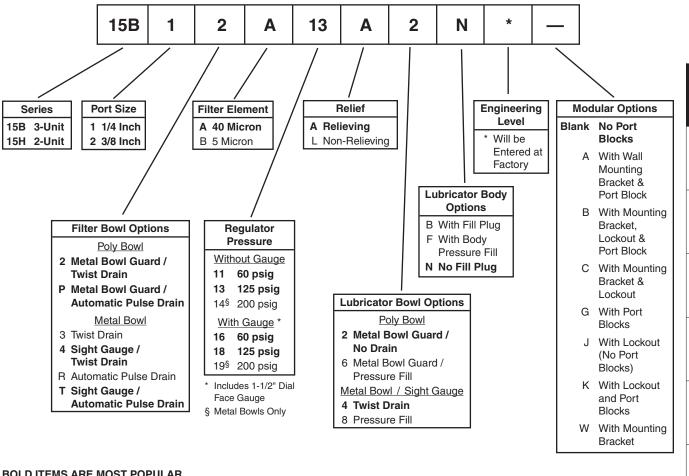
C142

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



Modular Combinations – 05 Economy Series

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

CAUTION:

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

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

⚠ WARNING

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

For polycarbonate bowl and sight dome, see Caution on page C2.

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

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

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

^{* 1/4 &}amp; 3/8 inch meet ISO 1179-1 Standard

C143



Filters

Coalescers

Regulators

Lubricators

Combos

Accessories

Part Numbers

Modular Accessories – 05 Economy Series



Product Selection

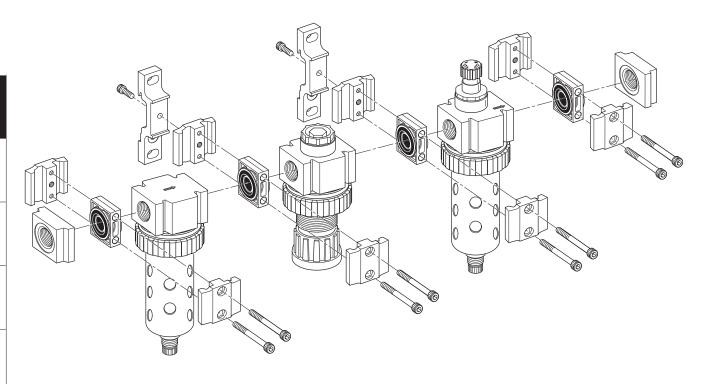
Filters

Coalescers

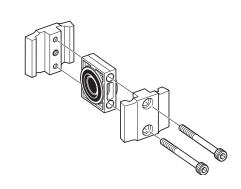
Regulators

Filter / Regulators

Accessories



Body Connectors PS954P



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

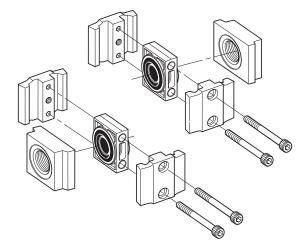
Body Connectors are required whenever you assemble two or more pieces together.

Each Kit includes one set.

Port Block Connector Kits

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

^{* 1/4 &}amp; 3/8 inch meet ISO 1179-1 Standard.



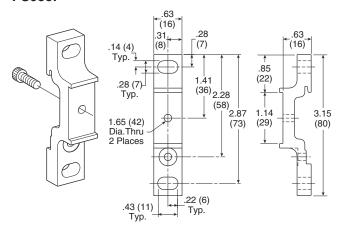
Port Block Connectors allow you to make threaded port connections to Modular units and are available in various port sizes to match your system requirements.

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



Modular Accessories - 05 Economy Series

Wall Mounting Kits PS955P



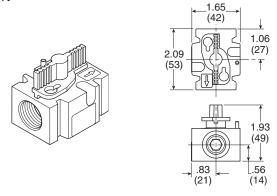
Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set.

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

Kit includes 1 assembly.

Lockout Valve PS95601P

1/4" Port

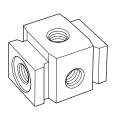


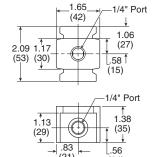
Lockout Valves provide positive shut-off and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start for 06 and 07 series. Accepts #3 padlock.

NOTE: Body Connectors are not supplied with Lockout Valves.

Modular Manifold Block PS95701P

1/4" Port





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

NOTE: Body Connectors are not supplied with Manifold Blocks.



Product Selection

Filters

Coalescers

Regulators

Filter / egulators

Lubricators

SOUMO?

Accessories

Model Numbers & Dimensions

Close Nippled Combinations - 06 Compact & 07 Standard Series

(Revised 05-08-12)

• See individual component pages for details.

Two-Unit Combo

Filters

Coalescers

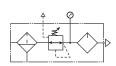
Regulators

Filter / Regulators

Lubricators

Combos

Accessories





Series	Model Numbers	Port	Model Numbers	Series
	06G12A13A2B*	1/4"	16G12A13A2B*	
06G	06G22A13A2B*	3/8"	16G22A13A2B*	16G
	06G32A13A2B*	1/2"	16G32A13A2B*	
070	07G32A13A2B*	1/2"	17G32A13A2B*	17G
07G	07G42Δ13Δ2R*	3/4"	17G42A13A2B*	1/4

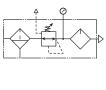
For other models, refer to ordering information on next page.

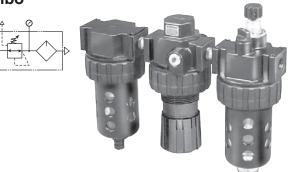
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06G, 16G Series							
A	B 5.69 (145)	C	D	E	F		
6.13		4.69	3.18	10.38	1.37		
(156)		(119)	(81)	(264)	(35)		
	07G, 17G Series						
A	B	C	D	E	F		
6.99	6.97	4.79	3.44	11.76	1.63		
(178)	(177)	(122)	(87)	(299)	(41)		

Inches (mm)

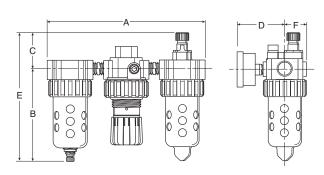
Three-Unit Combo





Series	Model Numbers	Port	Model Numbers	Series
	06A12A13A2B*	1/4"	16A12A13A2B*	
06A	06A22A13A2B*	3/8"	16A22A13A2B*	16A
	06A32A13A2B*	1/2"	16A32A13A2B*	
07A	07A32A13A2B*	1/2"	17A32A13A2B*	17A
U/A	07A42A13A2B*	3/4"	17A42A13A2B*	1/A

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



06A, 16A Series						
A	B 5.69 (145)	C	D	E	F	
9.45		2.24	3.18	7.93	1.37	
(240)		(57)	(81)	(201)	(35)	
	07A, 17A Series					
A	B	C	D	E	F	
10.74	6.97	2.41	3.44	9.38	1.63	
(2738)	(177)	(61)	(87)	(238)	(41)	

Inches (mm)



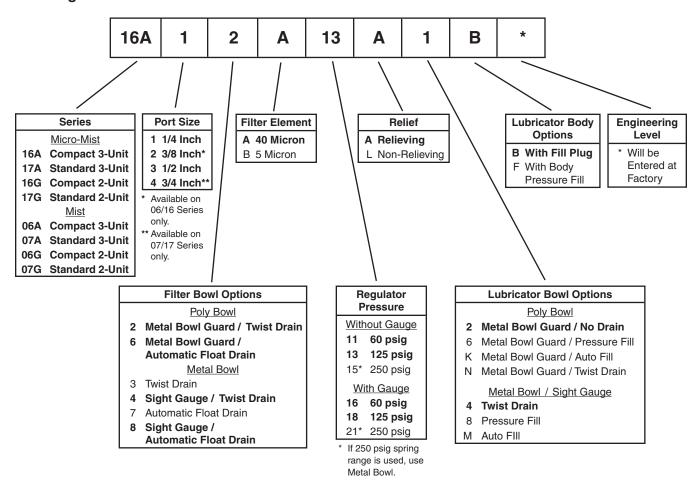
[•] All dimensions nominal.

[•] All dimensions nominal.

Model Number Index

Close Nippled Combinations - 06 Compact & 07 Standard Series

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

CAUTION:

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

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

♠ WARNING

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

For polycarbonate bowl and sight dome, see Caution on page C2.

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

C147

Mounting Bracket Kit (Includes Panel Mount Nut) **06A, 16A, 06G, 16G**......PS707P **07A, 17A, 07G, 17G**......PS807P



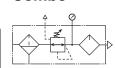
Lubricators

Filters

Coalescers

Regulators

Two-Unit Combo





Series	Model Numbers	Port	Model Numbers	Series
	06H12A13A2B*	1/4"	16H12A13A2B*	
06H	06H22A13A2B*	3/8"	16H22A13A2B*	16H
	06H32A13A2B*G	1/2"†	16H32A13A2B*G	
07H	07H32A13A2B*	1/2"	17H32A13A2B*	17H
0/H	07H42A13A2B*	3/4"	17H42A13A2B*	1/8

For other models, refer to ordering information on next page. † 06 / 16 Available with Port Blocks Only.

A A GWithout Po		D
C B B O O O	0 0 280 (7mm	x .500 x 13mm)

06H, 16H Series					
A 6.10 (155)	A ₁ 9.04 (230)	B 5.69 (145)	C 4.69 (119)	D 3.18 (81)	E 10.38 (264)
F 2.00 (51)	G 3.58 (91)	H 1.40 (36)	J 6.65 (169) H Series		
	_				<u> </u>
7.00 (178)	A ₁ 10.28 (261)	B 6.97 (177)	C 4.79 (122)	D 3.44 (87)	E 11.76 (299)
F 2.09 (53)	G 3.58 (91)	H 1.40 (36)	J 7.51 (191)		

Inches (mm)

All dimensions nominal.

Three-Unit Combo

Coalescers

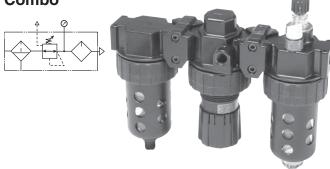
Regulators

Filter / Regulators

Lubricators

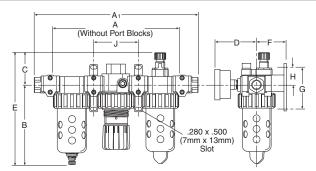
Combos

Accessories



Series	Model Numbers	Port	Model Numbers	Series
	06B12A13A2B*	1/4"	16B12A13A2B*	
06B	06B22A13A2B*	3/8"	16B22A13A2B*	16B
	06B32A13A2B*G	1/2"†	16B32A13A2B*G	
07B	07B32A13A2B*	1/2"	17B32A13A2B*	17B
	07B42A13A2B*	3/4"	17B42A13A2B*	

For other models, refer to ordering information on next page. † 06 / 16 Available with Port Blocks Only.



06B, 16B Series						
Α	A 1	В	С	D	E	
9.46	12.39	5.69	2.24	3.18	7.93	
(240)	(315)	(145)	(57)	(81)	(202)	
F	G	Н	J			
2.00	3.58	1.40	3.33			
(51)	(91)	(36)	(85)			
		07B, 17l	B Series			
Α	A 1	В	С	D	E	
10.750	14.03	6.97	2.41	3.44	9.38	
(273)	(356)	(177)	(61)	(87)	(238)	
F	G	Н	J			
2.18	3.58	1.40	3.76			
(55)	(91)	(36)	(95)			

Inches (mm)

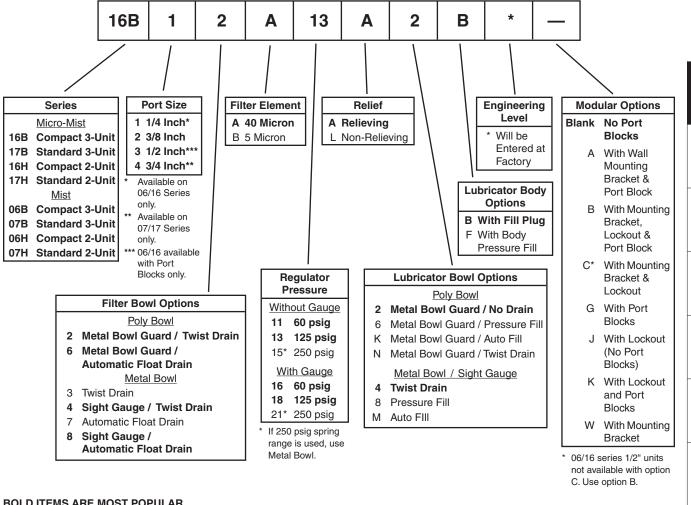
C148

All dimensions nominal.



Modular Combinations – 06 Compact & 07 Standard Series

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

CAUTION:

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

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

⚠ WARNING

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

For polycarbonate bowl and sight dome, see Caution on page C2.

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

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

Port Block Kits:			_	BSPT
06 Series	1/4".	PS750P	PS765P	PS761P
	3/8".	PS751P PS752P*	PS766P ¹	PS762P
*** *** ***	1/2".	PS752P [*]	' PS767P*	^T PS799P*

Use 1/4 or 3/8 ported bodies

^{† 1/4 3/8 &}amp; 1/2 inch meet ISO 1179-1 Standard

17 1, 070 G 172 111011 111001		randara.		
07 Series	1/4"	PS850P	PS865P	PS861P
		PS851P		
	1/2"	PS852P	PS867P [‡]	PS863P
	3/4"	PS853P	PS860P	PS864P
1/2 inch magta ICO 117	0-1 Standard			

[‡] 1/2 inch meets ISO 1179-1 Standard.

C149



Coalescers

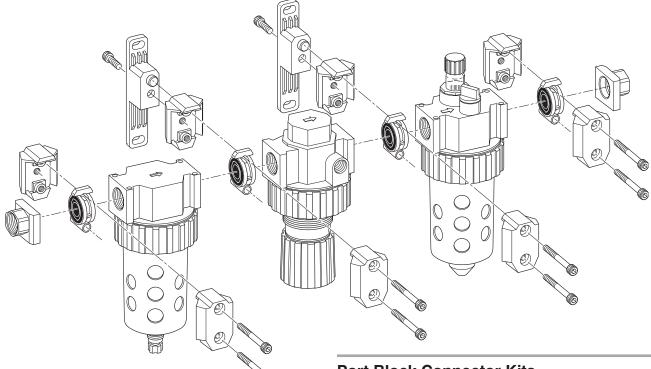
Regulators

Lubricators

Combos

Accessories

Modular Accessories - 06 Compact & 07 Standard Series



Body Connectors

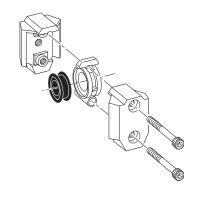
Coalescers

Regulators

Filter / Regulators

Accessories

06 SeriesPS754P 07 SeriesPS854P



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

Each Kit includes one set.

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

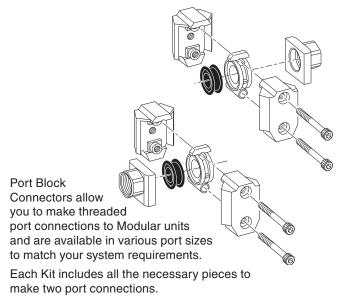
Port Block Connector Kits

Series	Size	NPT	20	BSPT
06 Series	1/4"	PS750P	PS765P [†]	PS761P
	3/8"	PS751P	PS766P [†]	PS762P
		PS752P*.	PS767P* [†] .	. PS799P*
* Use 1/4 or 3/8 porte	d bodies.			

^{† 1/4, 3/8 &}amp; 1/2 inch meet ISO 1179-1 Standard.

07 Series	1/4"	PS850P	PS865P	PS861P
	3/8"	PS851P	PS866P	PS862P
	1/2"	PS852P	PS867P [‡]	PS863P
	3/4"	DC8E3D	DCSCOD	DC864D

[‡] 1/2 inch meets ISO 1179-1 Standard.

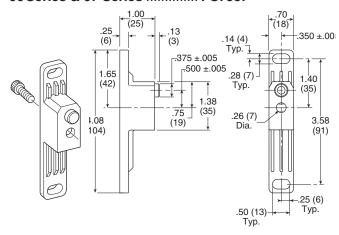




Modular Accessories – 06 Compact & 07 Standard Series

Wall Mounting Kits

06 Series & 07 Series PS755P



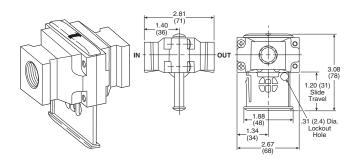
Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set.

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

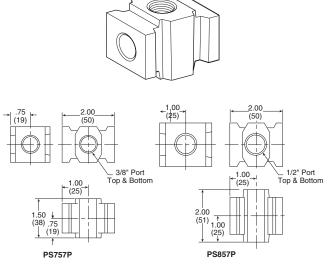


Lockout Valves provide positive shut-off and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start. Accepts #3 padlock.

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.

C

Product Selection

Filters

Coalescers

Regulators

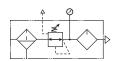
Filter / Regulators

Lubricators

Close Nippled Combinations - P3N Hi-Flow Series

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

Two-Unit Combo



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

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories

		← A →	← D→ ← F→
	\uparrow		
	C		
	<u> </u>		
	Ė		
	 B		
<u> </u>	<u> </u>		

Ī	Α	В	С	D	Е	F
١	7.76	9.57	6.38	3.56	15.95	1.81
	(197)	(243)	(162)	(90)	(405)	(50)

Inches (mm) All dimensions nominal.

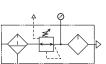
- Mounting brackets not included (change last character in model number to "B" if required).
- Gauges not included (change 12th character to "G" if required).

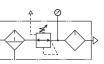
Series Port Model Numbers 3/4" P3N3A96SGMNNLNA P3N3A 1" P3N3A98SGMNNLNA 1-1/2"† P3N3A9PSGMNNLNA

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.

Three-Unit Combo





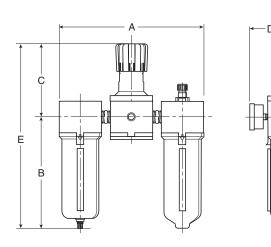
- 40 Micron Filter Element
- · Manual Twist Drain
- · Relieving Regulator
- 125 PSI (8.6 bar)



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.



Α	В	С	D	E	F
11.89	9.57	6.38	3.56	15.95	1.81
(302)	(243)	(162)	(90)	(405)	(50)

Inches (mm)

C152

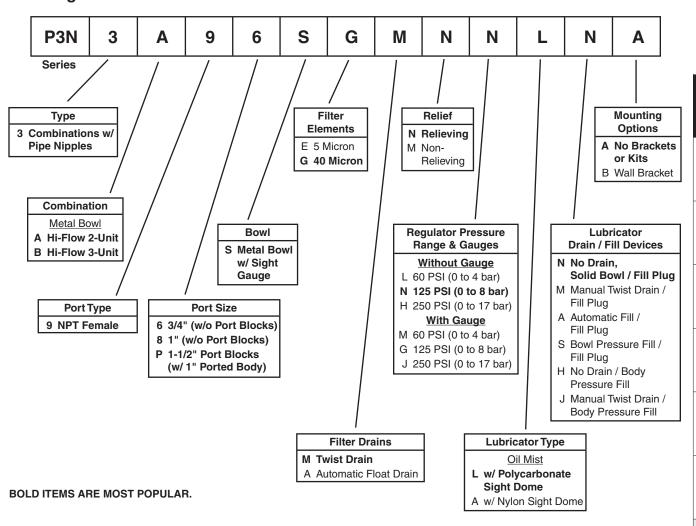
- · All dimensions nominal.
- Mounting brackets not included (change last character in model number to "B" if required).
- Gauges not included (change 12th character to "G" if required).



2 & 3-Unit Close Nippled Combinations

Close Nippled Combinations - P3N Hi-Flow Series

Ordering Information



CAUTION:

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

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

WARNING

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

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

C153

Wall Mounting Kit*P3NKA00MW



Filters

Coalescers

Regulators

Lubricators

Combos

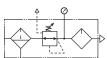
Accessories

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

Modular Combinations - P3N Hi-Flow Series

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

Two-Unit Combo





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

•	0
ž.	j
Ψ	Q

Series	Port	Model Numbers
	3/4"	P3NCA96SGMNNLNA
P3NCA	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.

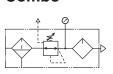
A2 (w/ Mtg Brkts, _ w/o Port Blocks)	← A₃ (w/ Mtg Brkts & Port Blocks)→ ← A₁ (Port Blocks) →	← B2 → (w/ Mtg Brkts) ← B1 → H
C C C C C C C C C C C C C C C C C C C		

A	A ₁	A ₂	A ₃	B	B ₁	B ₂
7.24	9.53	9.84	12.13	3.62	5.20	5.74
(184)	(242)	(250)	(308)	(92)	(132)	(146)
C 6.38 (162)	D 9.57 (243)	E 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





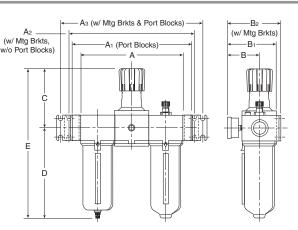
- Manual Twist Drain
- · Relieving Regulator
- 125 PSI (8.6 bar)



Series	Port	Model Numbers
	3/4"	P3NCB96SGMNNLNA
P3NCB	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.



Α	A 1	A 2	Аз	В	B ₁	B ₂
10.87	13.15	13.46	15.75	3.62	5.20	5.74
(276)	(334)	(342)	(400)	(92)	(132)	(146)
С	D	E				
6.38	9.57	15.95				
(162)	(243)	(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).



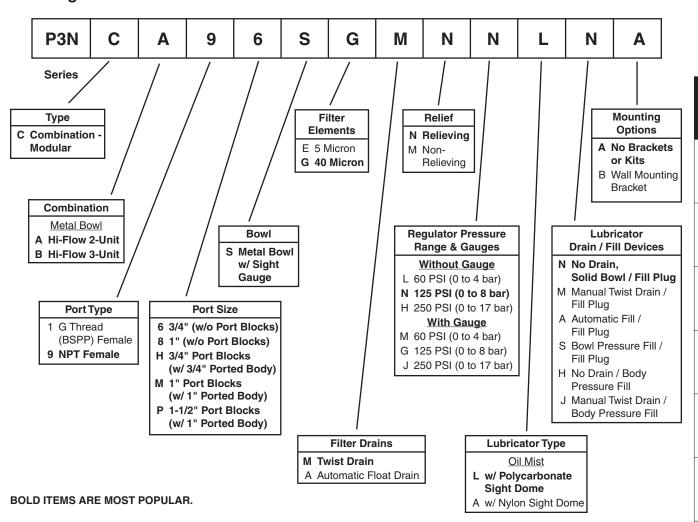
Filters

Coalescers

Regulators

Modular Combinations - P3N Hi-Flow Series

Ordering Information



CAUTION:

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

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

⚠ WARNING

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

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

Port Block Kits	: For Modular Co	mbinations	•	Wall Mounting Kit*
	3/4"	1"	1-1/2"	
NPT	P3NKB96CL	P3NKB98CL	P3NKB9BCL	
BSPP	P3NKB16CL*	P3NKB18CL*	P3NKB1BCL*	* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.

C155



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

Filters

Coalescers

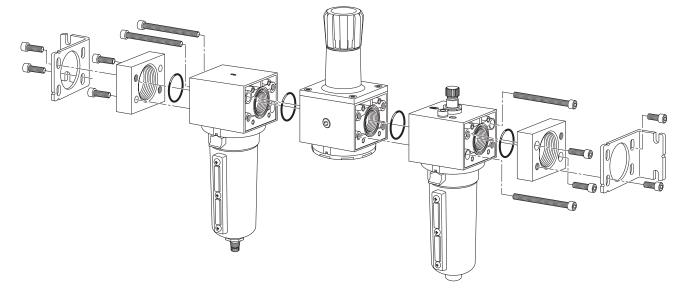
Regulators

Lubricators

Combos

Accessories

Modular Accessories - P3N Hi-Flow Series



Mounting Brackets

P3NKA00MW

Coalescers

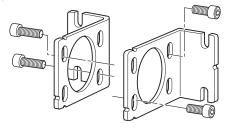
Regulators

Filter/ Regulators

Lubricators

Accessories

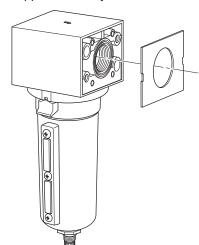
For 1-1/2" BSPP Port Block with E02 fitting application, use **Mounting Bracket Kit P3NKA0BMW**



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"

1-1/2"

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

NPT P3NKB96CP......P3NKB98CP......P3NKB9BCP **BSPP** P3NKB16CP*.....P3NKB18CP*......P3NKB1BCP*

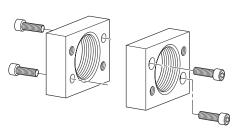
2 and 3 Piece Combinations including a Lubricator (FR/L & FRL), Individual Lubricators, Individual Coalescing Filters and 2-Piece Filter and Coalescer Assemblies:

P3NKB96CLP3NKB98CLP3NKB9BCL **NPT 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.

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





Standard Combinations – C628 Series

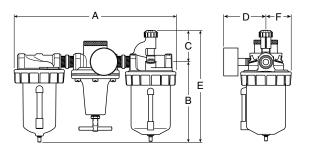
- See individual component s for details.
- · Gauges included on combinations.

Three-Unit Combo



Series	Port	Model Numbers
C628	3/4"	C628-06FRLWJCW
	1"	C628-08FRLWJCW
	1-1/4"	C628-10FRLWJCW
	1-1/2"	C628-12FRLWJCW

For other models, refer to ordering information below.



Α	В	С	D	E	F	
C628-06FRL, C628-08FRL						
15.75 (400)	7.75 (197)	2.63 (67)	3.52 (89)	13.00 (330)	2.48 (63)	
	C628-10FRL, C628-12FRL					
16.50 (419)	8.13 (206)	2.84 (72)	3.86 (98)	14.13 (359)	2.64 (67)	

Inches (mm)

• All dimensions nominal.

Ordering Information



Port Size 06 3/4 Inch 08 1 Inch 10 1-1/4 Inch 12 1-1/2 Inch W 16 oz. Metal w/Sight Gauge

Filter Bowl Options E 32 oz. Large Capacity wo/Sight Gauge

BOLD ITEMS ARE MOST POPULAR.

G 5 Micron J 40 Micron Regulator

C157

Elements

Reduced **Pressure Range**

C 0-125 psig D 0-250 psig

Drains and Options

- H Button Head Fill Fitting (Lubricator)
- K Non-Relieving Regulator
- Q External Heavy Duty Auto Drain (Filter)
- R Internal Auto Drain (Filter)
- X9 Manual Twist Drain on Lubricator (Increases Product Length by 9/16 Inch)

CAUTION:

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

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

Lubricator Bowl Options

E 32 oz. Large Capacity wo/Sight Gauge W 16 oz. Metal w/Sight Gauge

↑ WARNING

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



Filters

Coalescers

Regulators

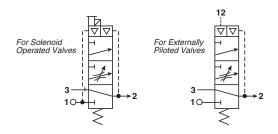
Lubricators

05S Soft Start / Quick Dump Valve

Features

- Combines Soft Start and Quick Dump Valve in the same body
- Large flow capacities up to 1.6 Cv
- · 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 (4 bar) 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.

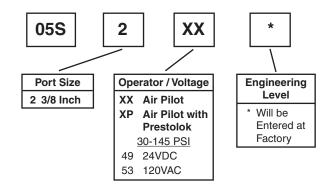
The valves pilot signal can either be supplied as a pneumatic pilot directly piped into port 12, on the top of the valve, or through a solenoid pilot mounted on the head. The valve should be mounted downstream of the FRL and with the soft start adjustment needle easily accessible.



/!\ 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



Note:

BSPP Available with Port Blocks Only, Meets ISO 1179-1 Standard.



Coalescers

Regulators

Prep-Air® II, 05S

Air Line Accessories

Performance Characteristics

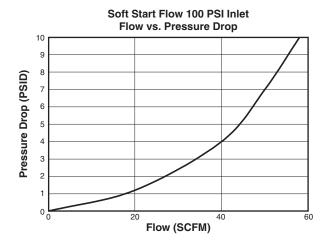


Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Pressure psig	Downstream Pressure psig	
75	50	
100	55	
125	60	
150	65	

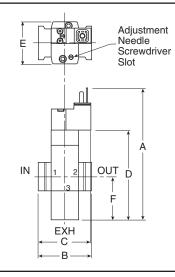
Table 2: Product forward Flow Cv and Exhaust Flow Cv.

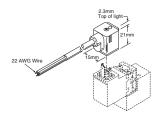
Series	Flow Cv	Exhaust Flow Cv
05S	1.3	1.6

Dimensions

Model	Port Size	Α	В	С	D	E
05S	3/8"	5.26 (134)	2.13 (54)	2.10 (53)	3.86 (98)	1.65 (42)

Inches (mm)





PS2946J79P

KITS &	Acces	sories
--------	-------	--------

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-Pin Connector Kit, 120/110VAC w/6 Foot Cord	i * PS2946J83P
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

ı	Exhaust Port
	Port Threads - Inlet and Outlet Ports
ı	BSPP and BSPT port threads are available
ı	through the use of modular port block kits

Pressure & Temperature Ratings -

Solenoid – 60 to 150 psig (4.1 to 10.3 bar) 32°F to 140°F (0°C to 60°C)

Air Pilot – 60 to 150 psig (4.1 to 10.3 bar) 32°F to 160°F (0°C to 70°C)

Air Pilot with Prestolok Adaptor – 60 to 150 psig (4.1 to 10.3 bar) 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.

Materials of Construction

C159

Body	Aluminum
Seals	Nitrile
Slide Rings	Lubricant Filled Thermoplastic
Springs	Stainless Steel

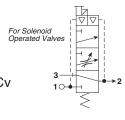


06S & 07S Soft Start / Quick Dump Valve

Features

- Combines Soft Start and Quick Dump Valve in the same body
- Large flow capacities up to 5.7 Cv
- Inline or Modular mounting

· Soft Start flow easily adjusted







07S

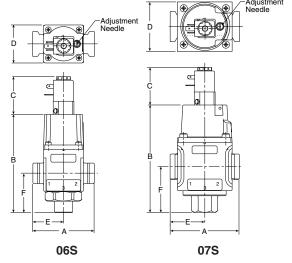
06S Operation

Coalescers

Regulators

Accessories

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.



Dimensions:

Model	Port Size	Α	В	С	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)

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.

 \triangle

 ∠ 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 **Series** Port Size Operator / Voltage **Engineering Thread** Level Type / Label Soft Start / Quick 2 3/8 Inch (06S) 30-145 PSI **Dump Valve** Will be 3 1/2 Inch (07S) 49 24VDC* Blank NPT Entered at 07S Soft Start / Quick 120/60 Hz* BSPP (G) Factory **Dump Valve** 145-200 PSI 3/8 & 1/2 inch meet 69 24VDC** ISO 1179-1 Standard 73 120/60 Hz** MD M12 Male Connector, 4 Pole; 24VDC For Voltage Options 49 and 53, use 22mm connectors

BOLD ITEMS ARE MOST POPULAR.



^{**} For Voltage Options 69 and 73, use 30mm connectors

Performance Characteristics

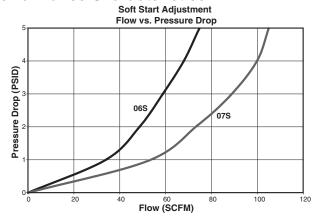


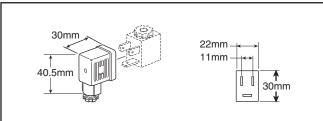
Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Brooking nois	Downstream Pressure psig			
Inlet Pressure psig	06S	07S		
75	55	52		
100	67	68		
125	80	82		

Table 2: Product forward Flow Cv and Exhaust Flow Cv.

Series	Flow Cv	Exhaust Flow Cv	
06S	4.1	3.4	
07S	5.7	4.6	

22mm Rectangular 3-Pin



Connector	Connector with 6' (2m) Cord	Description
PS2429BP	PS2429JBP	Unlighted
PS243079BP	PS2430J79BP*	Light – 24VDC
PS243083BP	PS2430J83BP*	Light – 120V/60Hz

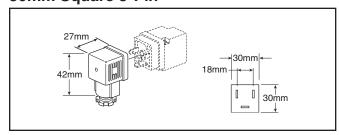
^{*} LED with surge suppression.

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

30mm Square 3-Pin



Connector	Connector with 6' (2m) Cord	Description
PS2028BP	PS2028JBP	Unlighted
PS203279BP	PS2032J79BP*	Light – 24VDC
PS203283BP	PS2032J83BP*	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): 8 to 10mm (0.31 to 0.39 Inch); Contact Spacing: 18mm

Kits & Accessories

06S Repair Kit	PHRKSC75
07S Repair Kit	PHRKSC105
06 Modular Body Connectors	PS754P
07 Modular Body Connectors	PS854P
1/2" Exhaust Silencer	ES50MB
3/4" Exhaust Silencer	ES75MB

Filters

Coalescers

Regulators

Lubricators

Combos

Accessories

Specifications

Exhaust Ports 06S	
Inlet and Outlet Ports 06S	
Maximum Pressure – Standard Coil High Pressure Coil	
Minimum Operating Pressure	30 psig (2.1 bar)
Temperature Ratings 40°F	to 120°F (4°C to 49°C)
Weight 06S07S	(0,

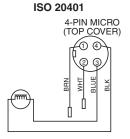
Materials of Construction

Body A	luminum
Bottom Plug	Brass

Connections

Central M12 Male Connector, 4 Pole

Piı	n Number	Function	Color
1	24V	Supply	Brown
2	0 to 10V or 4 to 20mA	Control Signal Ri = 100k Ω	White
3	0V (GND)	Supply	Blue
4	24V	Alarm Output Signal	Black





06T & 07T Solenoid Quick Dump Valve

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

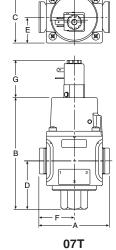




07T

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.



06T

Dimensions:

Model	Port Size	Α	В	С	D	E	F	G	Н
06T	3/8"		5.40 (137)		2.17 (26)	1.04 (43)	1.68 (43)	2.07 (53)	1.90 (48)
07T	1/2"		5.96 (151)			1.37 (35)	1.91 (48)	2.07 (53)	1.90 (48)

Inches (mm)

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 Series **Port Size** Operator / Voltage **Engineering Thread** Level Type / Label 06T Solenoid Quick 2 3/8 Inch (06T) 30-145 PSI Will be **Dump Valve** Blank NPT 49 24VDC* 3 1/2 Inch (07T) Solenoid Quick 53 120/60 Hz* Entered at BSPP (G) **Dump Valve** Factory 145-200 PSI 3/8 & 1/2 inch meet 69 24VDC** ISO 1179-1 Standard. 73 120/60 Hz** M12 Male Connector. 4 Pole; 24VDC * For Voltage Options 49 and 53, use 22mm connectors

BOLD ITEMS ARE MOST POPULAR.

** For Voltage Options 69 and 73, use 30mm connectors

Coalescers

Regulators

Filter/ Regulators

Joint a Quion Dump varvo



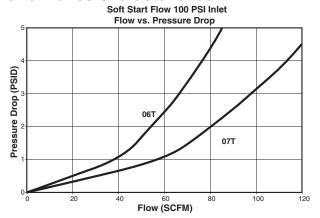


Table 2: Product forward Flow Cv (1 to 2).

Series	Flow Cv	Exhaust Flow Cv
06T	3.7	4.1
07T	5.5	5.0

C

Product

Filters

Coalescers

Regulators

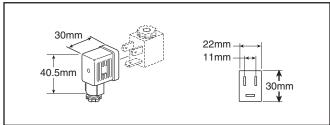
Filter / Regulators

Lubricators

Combos

Accessories

22mm Rectangular 3-Pin



Connector	Connector with 6' (2m) Cord	Description
PS2429BP	PS2429JBP	Unlighted
PS243079BP	PS2430J79BP*	Light – 24VDC
PS243083BP	PS2430J83BP*	Light - 120V/60Hz

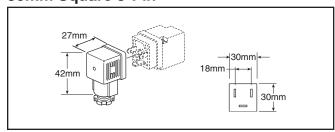
^{*} LED with surge suppression.

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

30mm Square 3-Pin



Connector	Connector with 6' (2m) Cord	Description
PS2028BP	PS2028JBP	Unlighted
PS203279BP	PS2032J79BP*	Light – 6-24VDC
PS203283BP	PS2032J83BP*	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): 8 to 10mm (0.31 to 0.39 Inch); Contact Spacing: 18mm

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	
07T	1/2 Inch
Maximum Pressure –	
Standard Coil	145 psig (10.0 bar)
High Pressure Coil	200 psig (13.8 bar)
Minimum Operating Pressure	30 psig (2.1 bar)
Temperature Ratings	40°F to 120°F (4°C to 49°C)
Weight	
06T	2.25 lbs. (1.02 kg)
07T	

Materials of Construction

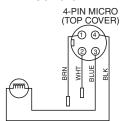
Body Alur	ninum
Bottom Plug	Brass

Connections

Central M12 Male Connector, 4 Pole

Piı	n Number	Function	Color
1	24V	Supply	Brown
2	0 to 10V or 4 to 20mA	Control Signal Ri = 100k Ω	White
3	0V (GND)	Supply	Blue
4	24V	Alarm Output Signal	Black

ISO 20401

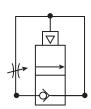




06P & 07P Auto Pilot Soft Start Valve

Features

- Smooth start-up of pneumatic system
- · Air pilot operation
- Large flow capacities up to 5.5 Cv
- Inline or Modular Mounting







Operation

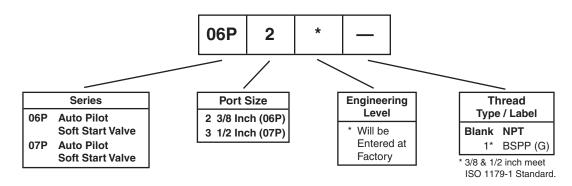
When pressure is supplied to the inlet port, gradual filling of the downstream system occurs through the adjustable needle valve. The piston opens the main valve when the downstream side of the valve reaches approximately 60% of the supply pressure. The ramp up time to reach the switch over pressure 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



C164

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Prep-Air[®] II, 06P & 07P **Air Line Accessories**

Performance Characteristics

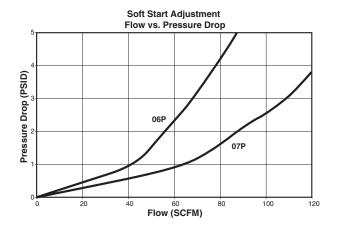


Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Dressure nois	Downstream Pressure psig					
Inlet Pressure psig	06P	07P				
75	45	25				
100	60	33				
125	75	38				
150	85	45				

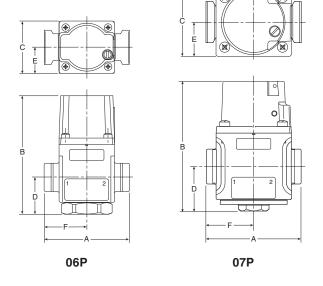
Table 2: Product forward Flow Cv (1 to 2).

Series	Flow Cv
06P	3.8
07P	5.5

Dimensions:

Model	Port Size	Α	В	C	D	ш	F
06P	3/8"	3.36 (85)	4.70 (119)	2.08 (53)	1.48 (38)	1.04 (26)	1.68 (43)
07P	1/2"	3.81 (96)	5.21 (132)	2.07 (53)	1.80 (46)	1.37 (35)	1.91 (48)

Inches (mm)



Repair Kits

06P Repair Kit	PHRKSS75
07P Repair Kit	PHRKSS105
06 Modular Body Connectors	PS754P
07 Modular Body Connectors	PS854P

Materials of Construction

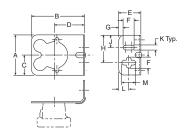
Body	Aluminum
Bottom Plug –	
06P	Brass
07P	Zinc

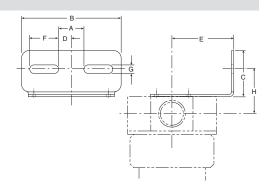
Specifications

Maximum Pressure	300 psig (20.7 bar)
Minimum Operating Pressure	30 psig (2.1 bar)
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)



Mounting Bracket Kits

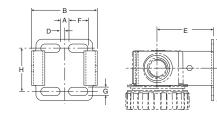




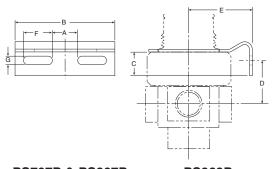
PS417BP (Includes Panel Mount Nut)

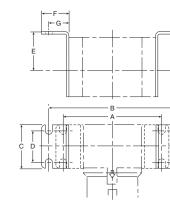
PS419 (Includes Panel Mount Nut)

PS743P, PS843P



PS943P





PS707P & PS807P

(Includes Panel Mount Nut)

PS963P (Includes Aluminum Panel Mount Nut)

P3NKA00MW

Dimensions

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

inches (mm)



Safety Guide For Selecting And Using Pneumatic Division **Products And Related Accessories**

! WARNING:

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF PNEUMATIC DIVISION PRODUCTS, ASSEMBLIES OR RELATED ITEMS ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Unintended or mistimed cycling or motion of machine members or failure to cycle
- Work pieces or component parts being thrown off at high speeds.
- Failure of a device to function properly for example, failure to clamp or unclamp an associated item or device.
- Explosion
- Suddenly moving or falling objects.
- Release of toxic or otherwise injurious liquids or gasses.

Before selecting or using any of these Products, it is important that you read and follow the instructions below.

1. GENERAL INSTRUCTIONS

- 1.1. Scope: This safety guide is designed to cover general guidelines on the installation, use, and maintenance of Pneumatic Division Valves, FRLs (Filters, Pressure Regulators, and Lubricators), Vacuum products and related accessory components.
- 1.2. Fail-Safe: Valves, FRLs, Vacuum products and their related components can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of associated valves, FRLs or Vacuum products will not endanger persons
- 1.3 Relevant International Standards: For a good guide to the application of a broad spectrum of pneumatic fluid power devices see: ISO 4414:1998, Pneumatic Fluid Power - General Rules Relating to Systems. See www.iso.org for ordering information.
- 1.4. Distribution: Provide a copy of this safety guide to each person that is responsible for selection, installation, or use of Valves, FRLs or Vacuum products. Do not select, or use Parker valves, FRLs or vacuum products without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.
- 1.5. User Responsibility: Due to the wide variety of operating conditions and applications for valves, FRLs, and vacuum products Parker and its distributors do not represent or warrant that any particular valve, FRL or vacuum product is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:
 - Making the final selection of the appropriate valve, FRL, Vacuum component, or accessory.
 - · Assuring that all user's performance, endurance, maintenance, safety, and warning requirements are met and that the application presents no health or safety hazards.
 - · Complying with all existing warning labels and / or providing all appropriate health and safety warnings on the equipment on which the valves, FRLs or Vacuum products are used; and,
 - · Assuring compliance with all applicable government and industry standards.
- 1.6. Safety Devices: Safety devices should not be removed, or defeated.
- 1.7. Warning Labels: Warning labels should not be removed, painted over or otherwise obscured.
- 1.8. Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2. PRODUCT SELECTION INSTRUCTIONS

- 2.1. Flow Rate: The flow rate requirements of a system are frequently the primary consideration when designing any pneumatic system. System components need to be able to provide adequate flow and pressure for the desired application.
- 2.2. Pressure Rating: Never exceed the rated pressure of a product. Consult product labeling, Pneumatic Division catalogs or the instruction sheets supplied for maximum pressure ratings.
- 2.3. Temperature Rating: Never exceed the temperature rating of a product. Excessive heat can shorten the life expectancy of a product and result in complete product failure.
- 2.4. Environment: Many environmental conditions can affect the integrity and suitability of a product for a given application. Pneumatic Division products are designed for use in general purpose industrial applications. If these products are to be used in unusual circumstances such as direct sunlight and/or corrosive or caustic environments, such use can shorten the useful life and lead to premature failure of a product.
- 2.5. Lubrication and Compressor Carryover: Some modern synthetic oils can and will attack nitrile seals. If there is any possibility of synthetic oils or greases migrating into the pneumatic components check for compatibility with the seal materials used. Consult the factory or product literature for materials of construction.
- 2.6. Polycarbonate Bowls and Sight Glasses: To avoid potential polycarbonate bowl failures:
 - · Do not locate polycarbonate bowls or sight glasses in areas where they could be subject to direct sunlight, impact blow, or temperatures outside of the rated range.
 - · Do not expose or clean polycarbonate bowls with detergents, chlorinated hydro-carbons, keytones, esters or certain alcohols.
 - Do not use polycarbonate bowls or sight glasses in air systems where compressors are lubricated with fire resistant fluids such as phosphate ester and di-ester lubricants.



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- 2.7. Chemical Compatibility: For more information on plastic component chemical compatibility see Pneumatic Division technical bulletins Tec-3, Tec-4, and Tec-5
- 2.8. Product Rupture: Product rupture can cause death, serious personal injury, and property damage.
 - · Do not connect pressure regulators or other Pneumatic Division products to bottled gas cylinders.
 - · Do not exceed the maximum primary pressure rating of any pressure regulator or any system component.
 - · Consult product labeling or product literature for pressure rating limitations.

3. PRODUCT ASSEMBLY AND INSTALLATION INSTRUCTIONS

- **3.1. Component Inspection:** Prior to assembly or installation a careful examination of the valves, FRLs or vacuum products must be performed. All components must be checked for correct style, size, and catalog number. DO NOT use any component that displays any signs of nonconformance.
- **3.2.** Installation Instructions: Parker published Installation Instructions must be followed for installation of Parker valves, FRLs and vacuum components. These instructions are provided with every Parker valve or FRL sold, or by calling 1-800-CPARKER, or at www.parker.com.
- **3.3.** Air Supply: The air supply or control medium supplied to Valves, FRLs and Vacuum components must be moisture-free if ambient temperature can drop below freezing

4. VALVE AND FRL MAINTENANCE AND REPLACEMENT INSTRUCTIONS

- **4.1. Maintenance:** Even with proper selection and installation, valve, FRL and vacuum products service life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a component failure, and experience with any known failures in the application or in similar applications should determine the frequency of inspections and the servicing or replacement of Pneumatic Division products so that products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.10.
- **4.2. Installation and Service Instructions:** Before attempting to service or replace any worn or damaged parts consult the appropriate Service Bulletin for the valve or FRL in question for the appropriate practices to service the unit in question. These Service and Installation Instructions are provided with every Parker valve and FRL sold, or are available by calling 1-800-CPARKER, or by accessing the Parker web site at www.parker.com.
- **4.3. Lockout / Tagout Procedures:** Be sure to follow all required lockout and tagout procedures when servicing equipment. For more information see: OSHA Standard 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy (Lockout / Tagout)
- **4.4. Visual Inspection:** Any of the following conditions requires immediate system shut down and replacement of worn or damaged components:
 - Air leakage: Look and listen to see if there are any signs of visual damage to any of the components in the system. Leakage is an
 indication of worn or damaged components.
 - Damaged or degraded components: Look to see if there are any visible signs of wear or component degradation.
 - Kinked, crushed, or damaged hoses. Kinked hoses can result in restricted air flow and lead to unpredictable system behavior.
 - Any observed improper system or component function: Immediately shut down the system and correct malfunction.
 - Excessive dirt build-up: Dirt and clutter can mask potentially hazardous situations.

Caution: Leak detection solutions should be rinsed off after use.

4.5. Routine Maintenance Issues:

- · Remove excessive dirt, grime and clutter from work areas.
- · Make sure all required guards and shields are in place.
- **4.6. Functional Test:** Before initiating automatic operation, operate the system manually to make sure all required functions operate properly and safely.
- **4.7. Service or Replacement Intervals:** It is the user's responsibility to establish appropriate service intervals. Valves, FRLs and vacuum products contain components that age, harden, wear, and otherwise deteriorate over time. Environmental conditions can significantly accelerate this process. Valves, FRLs and vacuum components need to be serviced or replaced on routine intervals. Service intervals need to be established based on:
 - · Previous performance experiences.
 - Government and / or industrial standards.
 - When failures could result in unacceptable down time, equipment damage or personal injury risk.
- **4.8. Servicing or Replacing of any Worn or Damaged Parts:** To avoid unpredictable system behavior that can cause death, personal injury and property damage:
 - Follow all government, state and local safety and servicing practices prior to service including but not limited to all OSHA Lockout Tagout procedures (OSHA Standard 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy Lockout / Tagout).
 - · Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
 - Disconnect air supply and depressurize all air lines connected to system and Pneumatic Division products before installation, service, or conversion.
 - Installation, servicing, and / or conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
 - After installation, servicing, or conversions air and electrical supplies (when necessary) should be connected and the product tested
 for proper function and leakage. If audible leakage is present, or if the product does not operate properly, do not put product or
 system into use.
 - Warnings and specifications on the product should not be covered or painted over. If masking is not possible, contact your local representative for replacement labels.
- 4.9. Putting Serviced System Back into Operation: Follow the guidelines above and all relevant Installation and Maintenance Instructions supplied with the valve FRL or vacuum component to insure proper function of the system.





Offer of Sale

The items described in this document and other documents and descriptions provided by Parker Hannifin Corporation, its subsidiaries and its authorized distributors ("Seller") are hereby offered for sale at prices to be established by Seller. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in its document, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer. All goods or work described will be referred to as "Products".

- Terms and Conditions. Seller's willingness to offer Products, or accept an order for Products, to or from Buyer is subject to these Terms and Conditions or any newer version of the terms and conditions found on-line at www.parker.com/saleterms/. Seller objects to any contrary or additional terms or conditions of Buyer's order or any other document issued by Buyer.
- 2. <u>Price Adjustments: Payments.</u> Prices stated on Seller's quote or other documentation offered by Seller are valid for 30 days, and do not include any sales, use, or other taxes unless specifically stated, Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). Payment is subject to credit approval and is due 30 days from the date of invoice or such other term as required by Seller's Credit Department, after which Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law.
- 3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon placement of the products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.
- 4. Warranty. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve months from the date of delivery to Buyer or 2,000 hours of normal use, whichever occurs first. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer: DISCLAIMER OF WARRANTY: THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 30 days after delivery. Buyer shall notify Seller of any alleged breach of warranty within 30 days after the date the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale (other than an action by Seller for an amount due on any invoice) must be commenced within 12 months from the date of the breach without regard to the date breach is discovered.
- 6. LIMITATION OF LIABILITY. UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.
- 7. User Responsibility. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.
- 8. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer ordering the items manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.
- 9. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.
- 10. <u>Buyer's Obligation</u>; <u>Rights of Seller</u>. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.
- 11. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright

- infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications turnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.
- 12. <u>Cancellations and Changes.</u> Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.
- 13. <u>Limitation on Assignment.</u> Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.
- 14. Force Majeure. Seller does not assume the risk and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure") Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.
- 15. <u>Waiver and Severability.</u> Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.
- 16. <u>Termination</u>. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer: (a) commits a breach of any provision of this agreement (b) appointments a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or by a third party (d) makes an assignment for the benefit of creditors, or (e) the dissolves or liquidates all or a majority of its assets.
- 17. Governing Law. This agreement and the sale and delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement.
- 18. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to Products delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.
- 19. Entire Agreement. This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.
- 20. Compliance with Law, U. K. Bribery Act and U.S. Foreign Corrupt Practices Act. Buyer agrees to comply with all applicable laws and regulations, including both those of the United Kingdom and the United States of America, and of the country or countries of the Territory in which the Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA") and the U.S. Anti-Kickback Act (the "Anti-Kickback Act"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that they are familiar with the provisions of the U. K. Bribery Act, the FCPA and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer shall not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase products or otherwise benefit the business of Seller.

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