

↑ WARNING

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Introduction			A	Introduction
Global Air Preparation System	www.parker.com/globalfrl		В	Global Air Preparation Systems
Filters, Regulators, Lubricators	www.parker.com/pneu/frl	124	C	Filters, Regulators, Lubricators
Stainless Steel FRLs	www.parker.com/pneu/ssfrls		D	Stainless Steel FRLs
Precision Regulators	www.parker.com/pneu/precreg	の たの や・回・	Ε	Precision Regulators
Proportional Regulators (P31P, P32P & PAR™-15)			F	Proportional Regulators
LV / EZ Lockout Valves (Lockout Valves)	www.parker.com/pneu/lockout		G	"LV" / "EZ" Lockout Valves
Integrated Fittings		CONTRACTOR OF STATES	Н	Integrated Fittings
Accessories	www.parker.com/pneu/accessories		J	Accessories
Ball Valves / Plug Valves	www.parker.com/pneu/ball		K	Ball Vaives / Plug Vaives
Quick Couplings			L	Quick Couplings
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Safety Guide, Offer of Sale			P	Model to ge 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.



C

Product Selection

ilters

Coalescers

ilter/ Regulators gulators

Lubricators

Combos

/ 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

(Revised 05-13-14)

Basic		Port Size											Bowls				Elements (Micron)						
Unit	Series	1/8	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	6	Poly	Metal	Metal SG	Capacity	5	20	40	Adsorber	Page
S E P W E A R	P3TF		Х	Х	Х	Х	Х		х	Х					Alur	minum	Body			Water	Separa	ator	C6
A R T A E T R O R	P3TF												х	Χ	Alur	minum	Body			Water	Separa	ator	С9
	02F		Х												Alur	minum	Body	_	Std.	_	_	_	C13
	14F	Χ	Х												Х	Х	_	1 oz.	Std.	_	Opt.	Opt.	C14
	05F		Х	Х											Х	_	_	2 oz.	_	_	Std.	Opt.	C16
F	06F		Х	Х	Χ										Х	Х	Х	4.4 oz.	Opt.	_	Std.	Opt.	C18
L T E	07F			Х	Χ	Х									Х	Х	Х	7.2 oz.	Opt.	_	Std.	Opt.	C20
R	P3NF					Х	Х		Х						_	_	Х	18 oz.	Opt.	_	Std.	Opt.	C22
	F602					Х	Х	Х	Х	Χ	Х				_	Х	Х	32 oz.	Opt.	_	Std.	_	C24
	35F								Х	Χ					_	Х	_	27.5 oz.	Std.	_	_	_	C30
	43F											Χ			_	Х	_	50.72 oz.	Std.	_	_	_	C30
	02F		Х												Nyl	on Hou	sing	_		Grade 6	6, Grad	e 10	C35
	10F	Χ	Х												Х	Х	_	1 oz.	Grad	e 6 Std	., Grad	e 10 Opt.	C36
	15F		Х	Х											Х	_	_	2 oz.		Grac	le 6 St	d.	C38
C O F	11F		Х	Х	Χ										Х	Х	Х	4.4 oz.	Grad	e 6 Std	., Grad	e 10 Opt.	C40
^ I	12F			Х	Χ	Х									Х	Х	Х	7.2 oz.	Grad	e 6 Std	., Grad	e 10 Opt.	C42
E T S E C R	P3NF					Х	Х		Х						_	_	Х	18 oz.	Grad	e 6 Std	., Grad	e 10 Opt.	C44
I S N G	F701					Х	Х								_	Х	Х	32 oz. 100 oz.	Grad	e 6 Std	., Grad	e 10 Std.	C46
	35F								Х	Х					_	Х	_	27.5 oz.	1.0 8	0.01 N	/licron	Adsorber	C48
	43F											Х			_	Х	_	50.72 oz.	1.0 8	0.01 N	/licron	Adsorber	C48
	P3TF												Х	Х	_	Х	_	4" & 6" Flange	1.0 8	0.01 N	/licron	Adsorber	C50

СЗ



Coalescers

Regulators

Accessories Lubricators

Product Selection Chart

Ва	sic	Port Size Series				Spring Range										_										
	nit	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	160	200	250	Page
		14R	Х	Х									_	Opt.	_	Opt.	_	Opt.	_	_	Std.	_	_	_	_	C54
		P3A-R	Х	Х									_	Std.	_	Std.	_	Std.	_	Std.	_	_	_	_	_	C56
		R34	Х	Х									_	_	_	Opt.	_	Opt.	_		Std.	_	_	_	_	C58
		R24 / R25	Х	Х									_	_	_	Std.	_	Std.	_	_	Std.	_	_	_	_	C60
		R45 / R46		Х	Х								_	_	Std.	_	_	Std.	_	_	Std.	_	_	_	_	C62
	S	20R	Х	Х									_	Std.	_	Std.	_	Std.	_	_	Std.	_	_	_	_	C64
	A N D	15R		Х	Х								_	Opt.	_	Opt.	_	Opt.	_	_	Std.	_	_	_	_	C66
R	A R D	05R		Х	Х								_	_	_	Opt.	_	Std.	_	_	Std.	_	_	Opt.	_	C68
R E G U L		06R		Х	Х	Х							_	_	_	_	_	Std.	_	_	Std.	_	_	_	Opt.	C70
A T O		07R			Х	Х	Х						_	_	_	_	_	Std.	_	_	Std.	_	_	_	Opt.	C72
R S		P3NR					Х	Х		Х			_	_	_	_	_	Opt.	_	_	Std.	_	_	_	Opt.	C74
		R119					Х	Х	Х	Х			_	_	_	_	_	_	_	_	Std.	_	_	_	Opt.	C76
		09R									Х		_	_	_	_	_	_	_	_	Std.	_	_	_	_	C80
		10R		Х	Х								*	*	*	*	*	*	*	*	*	*	*	*	*	C82
	_ _	11R		Х	Х	Х							*	*	*	*	*	*	*	*	*	*	*	*	*	C84
	P I L O	12R			Х	Х	Х						*	*	*	*	*	*	*	*	*	*	*	*	*	C86
	Ť	P3NR					Х	Х		Х			*	*	*	*	*	*	*	*	*	*	*	*	*	C88
		R119					Х	Х	Х	Х	Х	Х	*	*	*	*	*	*	*	*	*	*	*	*	*	C90

^{*} Will follow Pilot Regulator setting.



Prep-Air® II Air Preparation Units

Selection Chart

Product Selection Chart

Bas	sic	Series				Po	ort Si	ze					Bowl	S	Canacity		emen Vicro		Adsorber			s	pring	Ranç	je			Page
Ur	nit	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	Ausurber	15	25	30	60	110	125	200	250	raye
F		14E	Х	Х								Х	Х	_	1 oz.	Std.	_	Opt.	Opt.	Opt.	_	Opt.	Opt.	_	Std.	_	_	C98
 L 1	-	B34	Х	Х								Х	Х		Х	Х	Opt.			_	Opt.	_	Opt.	_	Std.	_	_	C100
F		05E		Х	Х							Х	Х	Х	2 oz.	Opt.	_	Std.	Opt.	_	_	Opt.	Std.	_	Std.	Opt.	_	C102
F	:	06E		Х	Х	Х						Х	Х	Х	4.4 oz.	Opt.	_	Std.	Opt.	_	_	Std.	Std.	_	Std.	_	Opt.	C104
0 L	J	07E			Х	Х	Х					Х	Х	Х	7.2 oz.	Opt.	_	Std.	Opt.	_	_	Std.	Std.	_	Std.	_	Opt.	C105
4	\ -	P3NE					Х	Х		Х		_	_	Х	18 oz.	Opt.	_	Std.	Opt.	_	_	_	Std.	_	Std.	_	Std.	C108
C	≀	12E			Х	Х	Х					_	Х	_	7.2 oz.	6 Std.	_	10 Opt.	_	_	_	Opt.	Opt.	_	Std.	_	Opt.	C110
\vdash	М	15L		Х	Х							Х	Х	Х	0.07	Siu.		[Ορι.	Cannot I	oo fill	- d	dorn						C11.1
	I C R	IJL		^	_								^	^	2 oz.				Gailliot	Je IIII	eu un	uei pi	essui			-		C114
	Ö M	16L		Х	Х	Х						Х	Х	Χ	2.6 oz.				Cannot I	be fille	ed un	der pi	ressui	re				C116
L	I S T	17L			Х	Х	Х					Х	Х	Х	4.9 oz.				Cannot I	ne fille	ed un	der ni	ressiii	re				C118
B R	T	02L		Х	Х								minum		.25 oz.				Cannot I									C123
C		04L	Х	Х								Х	X		1 oz.	\vdash						<u> </u>						\vdash
A			^		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ , _'					_	-				 			Cannot I			<u> </u>						C124
		06L		Χ	X	Х	.,					Х	Х	X	2.9 oz.	_			Can be		-							C126
O R S	M	07L			Х	Χ	Х					Х	Х	Х	6 oz.	<u> </u>			Can be									C128
0	S	P3NL					Х	X		Х		<u> </u>		Х	18 oz.				Can be	filled	unde	er pre	ssure					C130
	Т	L606					Х	Х	Х	Х		_	Х	Х	16 oz. 32 oz. 64 oz.				Can be	filled	l unde	er pre	ssure					C132
		09L									Χ	_	_	Х	1 Qt. Std. 3 Qt. Opt.				Can be	filled	l und	er pre	ssure					C136
Г		14G	Χ	Х								Х	Х	_	1 oz.		T۱	wo-Ur	nit	Opt.		Opt.	Opt.	_	Std.	_		
		14A	Χ	Х								Х	Х	_	1 oz.		Th	ree-U	nit	Opt.		Opt.	Opt.	_	Std.	_	_	C140
		15G		Χ	Χ							Χ	Χ	Χ	2 oz.		T۱	wo-Ur	nit	_		Opt.	Std.	_	Std.	Opt.	_	0440
	N	15A		Χ	Χ							Х	Χ	Χ	2 oz.		Th	ree-U	nit	_		Opt.	Std.	_	Std.	Opt.	_	C142
	I I	06G/16G		Х	Х	Х						Х	Х	Х	2 oz.		Τι	wo-Ur	nit	_		_	Std.	_	Std.	_	Opt.	
		06A/16A		Χ	Х	Χ						Х	Х	Х	2 oz.		Th	ree-U	nit	_		_	Std.	_	Std.	_	Opt.	
	L	07G/17G			Х	Х	Х					Х	Х	Х	2 oz.		Τι	wo-Ur	nit	_		_	Std.	_	Std.	_	Opt.	C148
		07A/17A			Х	Х	Х					Х	Χ	Χ	2 oz.		Th	ree-U	nit	_		_	Std.	_	Std.	_	Opt.	
CO		P3N3A					Χ	Х		Χ		_	_	Χ	18 oz.		Τ\	vo-Ur	nit	_		_	Std.	_	Std.	_	Std.	
M		P3N3B					Х	Х		Х		_	_	Х	18 oz.		Th	ree-U	nit	_		_	Std.	_	Std.	_	Std.	C154
B 0		C628					Х	Х	Х	Х		İ —	Х	Х	32 & 16		Th	ree-U	nit	<u> </u>		_	_	_	Std.	_	Std.	C159
S	П	15H		Χ	Χ							Χ	Χ	Χ	2 oz.			wo-Ur		_		Opt.	Std.	_		Opt.		
		15B		Χ	X							Х	Х	Χ	2 oz.			ree-U		_		<u> </u>	Std.	_		Opt.	_	C144
	M	06H/16H		Χ	Х	Χ						Х	Х	Х	2 oz.		Τ\	wo-Ur	nit	<u> </u>		<u> </u>	Std.	_	Std.	_	Opt.	
	ויו	06B/16B		Х	Х	Х						Х	Х	Х	2 oz.			ree-U		_		_	Std.	_	Std.	_	Opt.	
	I U I	07H/17H		Ė	Х	Х	Х					Х	Х	X	2 oz.			wo-Ur		<u> </u>		<u> </u>	Std.	_	Std.	_	Opt.	C150
	Ā	07B/17B			Х	Х	Х					Х	Х	X	2 oz.			ree-U		<u> </u>		<u> </u>	Std.	_	Std.	-	Opt.	
	R	P3NCA			<u> </u>	Ė	Х	Х		Χ		<u> </u>	_	Х	18 oz.			wo-Ur		<u> </u>		 	Std.	_	Std.	_	Std.	
		P3NCB					Х	Х		Х		<u> </u>	_	X	18 oz.	\vdash		ree-U		<u> </u>		\vdash	Std.		Std.	_	Std.	C156
\Box	ш	1 01100					_^	_^		_ ^				^_	10 02.		111	וו טל־ט	iiit	匸			Juu.		otu.		otu.	



Bulk Liquid Separators – P3TF

Features

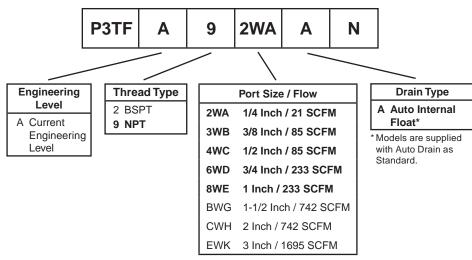
- Tested in Accordance with ISO 8573.9.
- High Liquid Removal Efficiencies at All Flow Conditions.
- Low Pressure Losses for Low Operational Costs.
- Multiple Port Sizes for a Given Flow Rate Provides Increased Flexibility During Installation.
- Suitable for Variable Flow Compressors.
- Works with All 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.

P3TFA98WEAN

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



C6

BOLD ITEMS ARE MOST POPULAR.



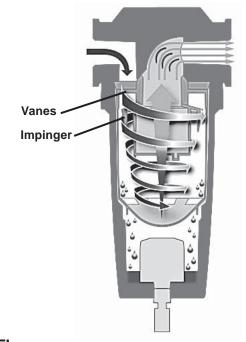
Coalescers

Regulators

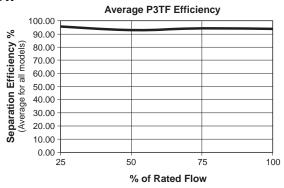
Bulk Liquid Separators P3TF Series

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.



Flow



Specifications

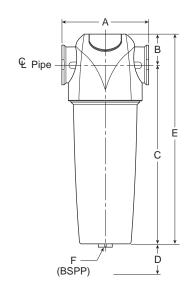
Pressure Differential at Rated Flow..... 1.0 PSID (0.07 bar)

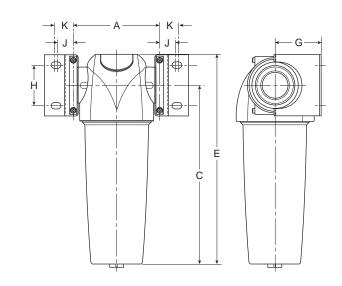
Model Number	Pipe Size	SCFM (L/s)	Maximum Operating Pressure psig (bar)	Operating Temperature	Weight Lb. (kg)
P3TFA92WAAN	1/4"	21 (10)			0.9 (0.4)
P3TFA93WBAN	3/8"	85 (40)			2.2 (1.0)
P3TFA94WCAN	1/2"	85 (40)			2.2 (1.0)
P3TFA96WDAN	3/4"	233 (110)	232 (16)	Maximum 176°F (80°C)	4.8 (2.2)
P3TFA98WEAN	1	233 (110)	232 (10)	Minimum 35°F (1.5°C)	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)

C7

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







Dimensions

Model Number	Wall Mounting Bracket Kit	Pipe Size	Α	В	С	D	Е	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)

Inches (mm)

Bulk Liquid Separator Kits & Accessories

	•	•	
Drain Kit			 .FFI

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.



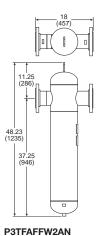
Bulk Liquid Separators – P3TF

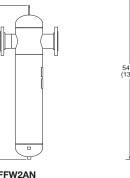


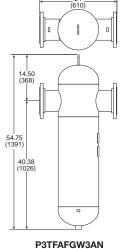
P3TF Series

Features

- Designed in accordance with ASME and CRN
- Connection sizes: 4 inch & 6 inch
- High liquid removal efficiencies at all flow conditions
- Suitable for variable flow compressors
- Works with all types of compressor and compressor condensate
- External surface epoxy painted for maximum corrosion resistance







Bulk Liquid Separators

Port Size	Flow SCFM	Part Number
4" Flange	2119	P3TFAFFW2AN
6" Flange	3814	P3TFAFGW3AN

Operating Information

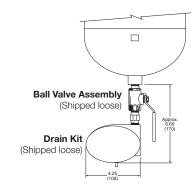
	PSTF Series
Operating Pressure:	232 PSIG (16 bar)
Operating Temperature:	35°F to 150°F (1.5°C to 66°C)

Materials of Construction

Body	Steel
Baffle	Plated Steel
Deflector	Plated Steel
Seals	Fluorocarbon
Stud	Plated Steel

Service Kits

Description	P3TF Series
Dp Gauge Replacement Kit	DPG-Kit
Drain Kit - 1/2" NPT	HDF-120-NPT-A



Inlet Air Pressure Correction

For pressures above 232 PSIG (16 bar), use manual drain.

																	' '	·		
PSI	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	247	261	275	290
bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Factor	2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.61	0.59

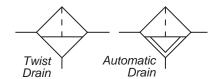
C9





Prep-Air® II Air Preparation Units

Filters



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

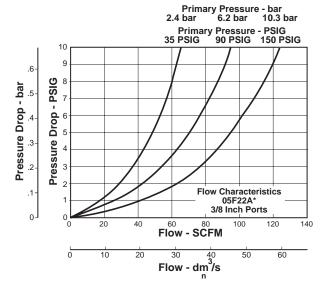
Air filters are designed to remove airborne solid contaminants, pipe scale, rust, pipe dope, etc., which may plug small orifices or cause excessive wear and premature failure of pneumatic components.

- Miniature 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

- 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.

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.



Product election

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators



Air Preparation Units

Particulate Filters:

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

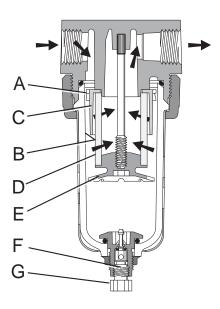
This type of filter is generally used in industrial applications where liquid water and oil, and harmful dirt particles must be removed from the compressed air system. This type of filter should also be used as a prefilter for the Coalescing (oil removal) filter.

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.

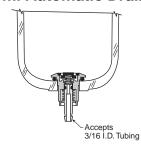


After liquids and large particles are removed in the first drained before their level reaches a height where they



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 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.

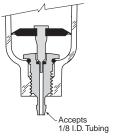
Semi Automatic Drain



(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.

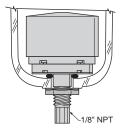
Automatic Pulse Drain



(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.



1/4" - Basic 1/8" Body

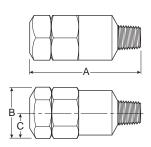
02F Filters - Miniature





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 Dimensions			
	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)

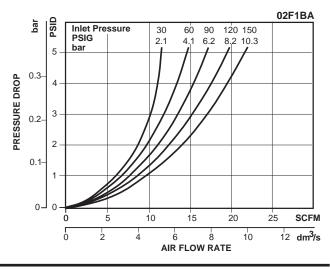
^{*} Inlet pressure 90 psig (6.2 bar). Pressure drop 5 PSID (0.3 bar).

Materials of Construction

Body	Aluminum
Baffle	Aluminum
Filter Element	Sintered Polyethylene
Seals	Nitrile

Replacement Element Kits

5 Micron F	S436
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Ordering Information

Port Size	5 Micron
1/4"	02F1BA

C13



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



Filters

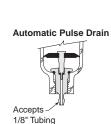
Coalescers

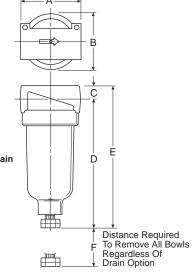
Regulators

Filter/ Regulators

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	NPT			
Size	Twist Drain	Automatic Pulse Drain		
Poly Bowl	‡			
1/8"	14F01BB	14F05BB		
1/4"	14F11BB	14F15BB		
Metal Bowl without Sight Gauge				
1/8"	14F03BB	14F07BB		
1/4"	14F13BB	14F17BB		

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

Inches (mm)

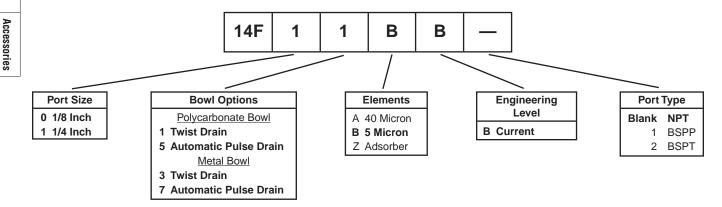
† With Automatic Pulse Drain.

Standard part numbers shown bold.

For other models refer to ordering information below.

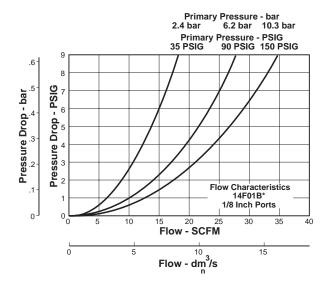
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

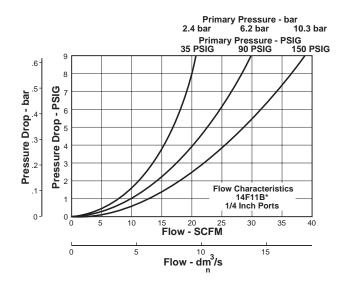
Ordering Information



C14







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
40 Micron (Optional)	PlasticPlasticPlasticActivated Charcoal
Seals	Nitrile



Product election

Filters

Coalescers

Regulators

Filter/ equlators

Lubricators

Combos



05F Filters - Economy

Twist Automatic

Coalescers

Regulators

Filter/ Regulators

Combos

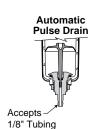
Accessories

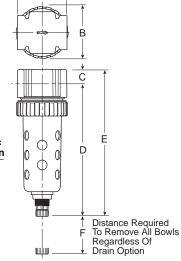
Features

Excellent water removal efficiency.

(Revised 05-13-14)

- 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
- · 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*

Standard part numbers shown bold.

For other models refer to ordering information below.

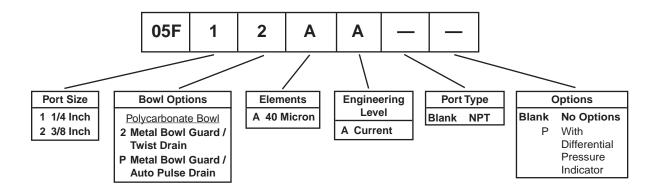
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig

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

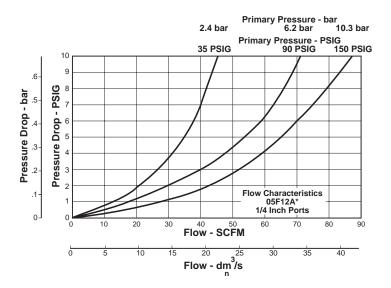
Inches (mm)

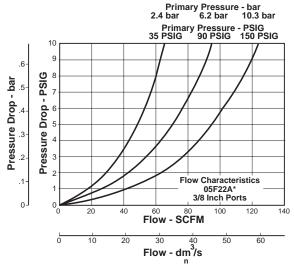
† With Twist or Automatic Pulse Drain

Ordering Information









05F Filter Kits & Accessories

Bowl Guard Kit PS905P)
Bowl Kits –	
Poly Bowl –	
Automatic Pulse DrainPS995P	
Twist DrainPS932P	,
DPI Replacement KitPS781P)
Drain Kit –	
Automatic Pulse DrainPS998P)
Twist DrainPS512P	
Filter Element Kits –	
40 MicronPS901P)
AdsorberPS931F)
Mounting Bracket KitPS943P)
Sight Gauge Kit)

Specifications

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

Pressure & Temperature Ratings -

Without Differential Pressure Indicator:

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

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

With Differential Pressure Indicator: 0 to 150 psig (0 to 10.3 bar)

32°F to 125°F (0°C to 52°C) Automatic Pulse Drain - 10 to 150 psig (0.7 to 10.3 bar)

Materials of Construction

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)



Filters

Coalescers

Regulators

Lubricators

Combos

Accessories



06F Filters - Compact

Twist Automatic Drain

Coalescers

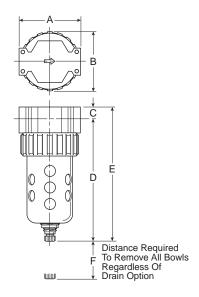
Regulators

Filter/ Regulators

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"	06F12AC	06F16AC	
3/8"	06F22AC	06F26AC	
1/2"	06F32AC	06F36AC	
Metal Bowl / Sight Gauge			
1/4"	06F14AC	06F18AC	
3/8"	06F24AC	06F28AC	
1/2"	06F34AC	06F38AC	

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

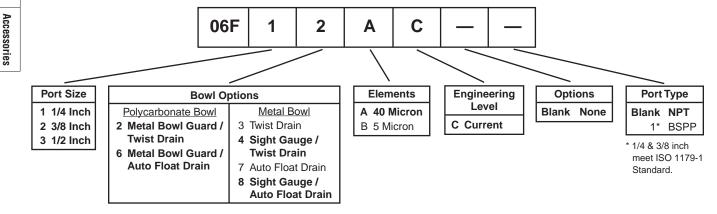
Inches (mm)

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.

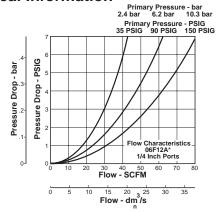
Ordering Information

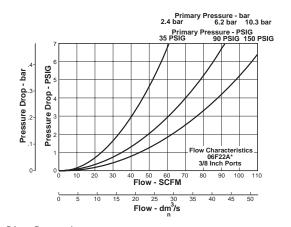


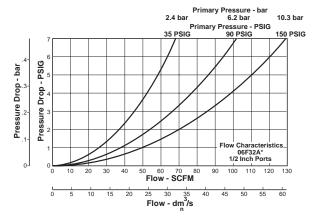
C18



[†] With Automatic Float Drain







C19

06F Filter Kits & Accessories

Bowl Guard KitPS705P)
Bowl Kits –	
Poly Bowl –	
Automatic Float DrainPS722F)
Twist DrainPS732F)
Metal Bowl –	
Automatic Float DrainPS726F)
Twist DrainPS734P)
Sight Gauge / Automatic Float DrainPS723F)
Sight Gauge / Twist DrainPS735P	
DPI Replacement KitPS781F)
Drain Kits –	
Automatic Float DrainPS506F)
Semi-Auto DrainPS511F)
Twist DrainPS512F)
Push 'N' DrainPS513F)
Filter Element Kits –	
40 MicronPS701F)
5 MicronPS702F)
AdsorberPS731F)
Mounting Bracket Kit PS743P)
Sight Gauge KitPS914F)
Specifications	
Bowl Capacity4.4 Ounces	3
Sump Capacity	

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

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Regulators	
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07F Filters - Standard

Twist Automatic Drain Drain

Drain Drain

Coalescers

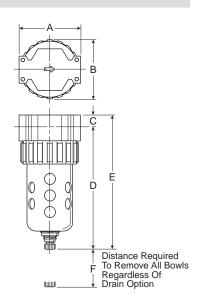
Regulators

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: 1/2" 130 SCFM§ 3/4" 145 SCFM§



Port	NPT	
Size	Twist Drain	Automatic Float Drain
Poly Bowl [‡] / Metal Guard		
1/2"	07F32AC	07F36AC
3/4"	07F42AC	07F46AC
Metal Bowl	/ Sight Gauge	
1/2"	07F34AC	07F38AC
3/4"	07F44AC	07F48AC

Standard part numbers shown bold.

For other models refer to ordering information below.

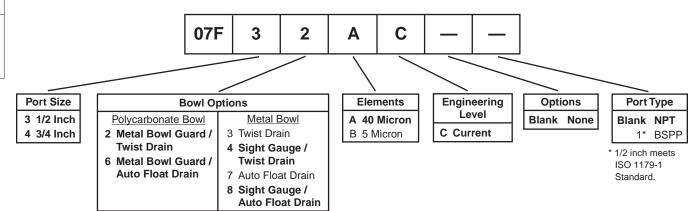
- [‡] For polycarbonate bowl see Caution on page C2.
- \$ SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

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)

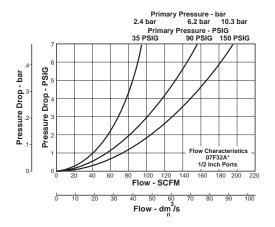
† With Automatic Float Drain

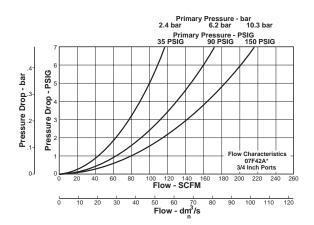
Ordering Information



C20







Bowl Guard KitPS805P
Bowl Kits –
Poly Bowl –
Automatic Float DrainPS822P
Twist DrainPS832P
Metal Bowl –
Automatic Float DrainPS826P
Twist Drain PS834P
Sight Gauge / Automatic Drain PS823P
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 Capacity
Sump Capacity
Port Threads

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

C21

Bowls	
Bowl Guards	, ,
Collar	
Deflector, Shroud & Baffle	
Drains –	
Twist Drain - Body & Nut	Plastic
Push 'N' Drain -	
Body	
Stem	Brass
Automatic Float Drain –	
Housing, Float	
Seals	
Springs, Push Rod	Stainless Steel
Filter Elements –	
40 Micron (Standard)	Plastic
5 Micron (Optional)	Plastic
Adsorber (Optional)	
Seals	Nitrile

Sight Gauge Polyamide



C

Product Selection

Filters

Regulators Coalescers

Filter / Regulators

Lubricators

P3NF Series

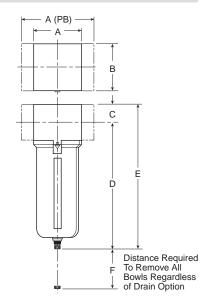
P3NF Filters - Hi-Flow



ACAUTON ACAUTO

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	
Size	Twist Drain	Automatic Float Drain
Metal Bowl / S	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.

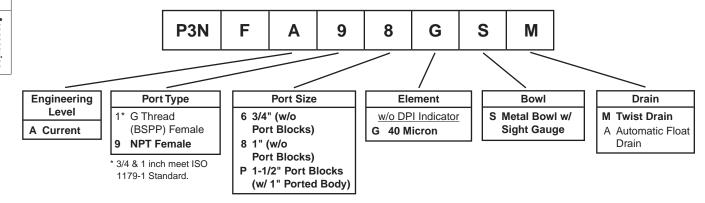
- # 1" Port Body with 1-1/2" Port Block.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop, with 40 micron element.

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)

† With Twist Drain or Automatic Float Drain

Ordering Information



C22

Note: BSPP ported units supplied using NPT ported bodies and BSPP port block kits.

BOLD ITEMS ARE MOST POPULAR.



Proc Selec

tion t

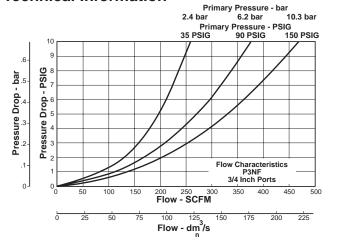
Filters

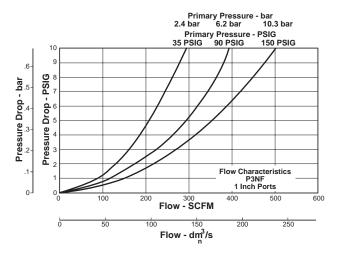
Coalescers

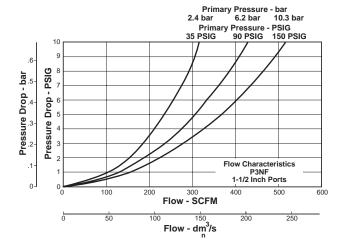
Regulators

Filter/ Regulators

Lubricato







C23

P3NF Filter Kits & Accessories

Metal Bowl – Sight Gauge / Automatic Float Drain Sight Gauge / Twist Drain	
Bowl Latch Kit	C11A33
DPI Replacement Kit	PS781P
Drain Kit – Automatic Float Drain Twist Drain	PS506P PS512P
Filter Elements – 40 Micron	P3NKA00ESE
Mounting Bracket Kit*	P3NKA00MW
Sight Gauge Kit	P3NKA00PE

Specifications

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

materials of constituotion	
Body	Aluminum
Deflector	Plastic
Drain	Plastic
Filter Elements –	
40 Micron (Standard)	Plastic
5 Micron (Optional)	
Adsorber (Optional)	
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.



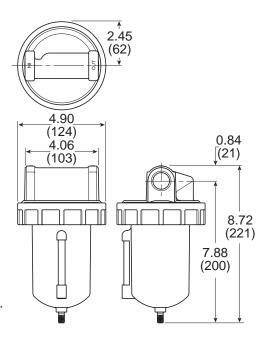
Bowl Kits -

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 SCFM§



Port	NPT	
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
1"	F602-08EJ	F602-08EJR

	Filter Dimensions					
A 4.90 (124)	B 7.88 (200)	C 8.72 (221)	D 4.06 (103)	E 0.84 (21)	F 2.45 (62)	
	F602-06E, F602-08E Filter Dimensions					
A 4.90 (124)	B 11.10 (282)	C 11.94 (303)	D 4.06 (103)	E 0.84 (21)	F 2.45 (62)	

F602-06W, F602-08W

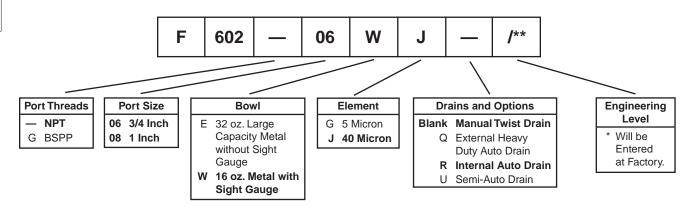
inches (mm)

Standard part numbers shown bold.

For other models refer to ordering information below.

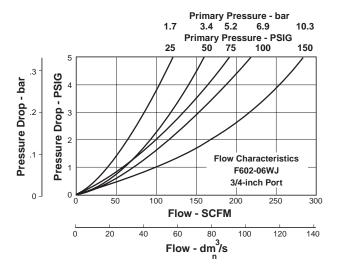
§ SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

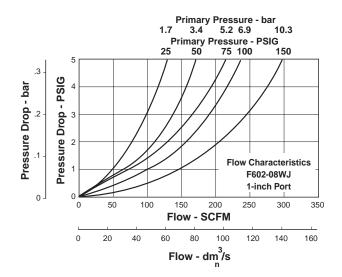
Ordering Information



C24

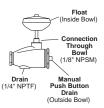






"Q" Option External Heavy Duty Auto Drain SA602D / SA603D

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

1 002 I liter Mits & Accessories
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
Filter Element Kits –
40 Micron (All) EK602B
5 Micron (All)EK602VB
Mounting Bracket Kit (Pair or 2 Kits Pipe Mounted Brackets needed) – (3/4" 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
Port Threads

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	
Zinc Bowl (W) 16 oz	

Materials of Construction

Body	Zinc
Bowls – (E) 32 oz(W) 16 oz	
Drain – Manual Twist & Overnight Housing "R" Housing "Q"	Acetal
Filter Elements – 40 Micron (Standard) 5 Micron (Optional)	PolypropylenePolypropylene
Seals	



) = Bowl Type

Product Selection

Filters

Coalescers

Filter / Regulators

Lubricators Re

Compos

Hi-Flow F602 Series

F602 Filters - Hi-Flow



Coalescers

Regulators

Filter/ Regulators

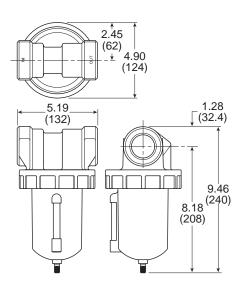
Lubricators

Accessories



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	NPT			
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"	F602-12EJ	F602-12EJR		

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

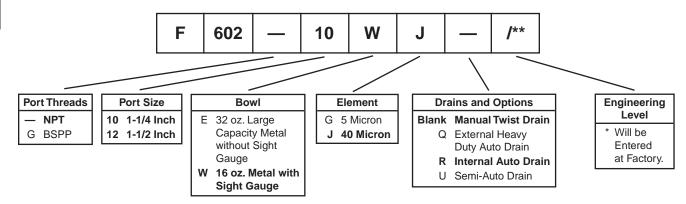
inches (mm)

Standard part numbers shown bold.

For other models refer to ordering information below.

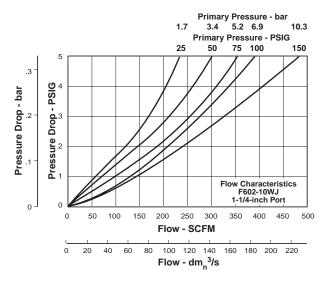
\$ SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

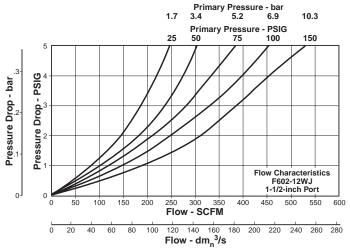
Ordering Information



C26

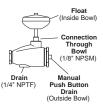






"Q" Option External Heavy Duty Auto Drain SA602D / SA603D

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.	SA603D
External Auto (W) 16 oz.	
Internal Auto (All)	
Manual (All)	
Semi-Automatic "Overnight" Drain	
(Drains automatically under zero pressure)	
Filter Element Kits –	
40 Micron (All)	EK602B
5 Micron (All)	
Repair Kits –	
Deflector, Baffle Assembly, and Retaining Rod (All)	
External Auto Drain (All)	
Internal Auto Drain (All)	
Metal Bowl with Sight Gauge (W) 16 oz	RKB605WB
Specifications	
Bowl Capacity -	
Aluminum (E) 32 oz.	32 Ounces
Zinc (W) 16 oz	
Port Threads1	-1/4, 1-1/2 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^{\circ}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 -

C27

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	Zinc with Sight GaugeBrassAcetal
Filter Elements – 40 Micron (Standard) 5 Micron (Optional)	
Seals	Nitrile
Sight Gauge	Nylon



() = Bowl Type

C

Product Selection

Filters

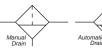
Coalescers

r/ Regulators

Lubricators Filter/ Regulators

Compos

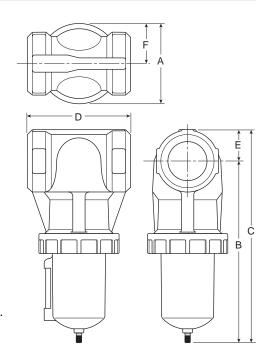
F602 Filters - Hi-Flow





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§



Port	NI	PT			
Size	Twist Drain	Internal Auto Drain			
Metal Bowl	Metal Bowl / Sight Gauge - 16 oz.				
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"	F602-20F.I	F602-20F.IR			

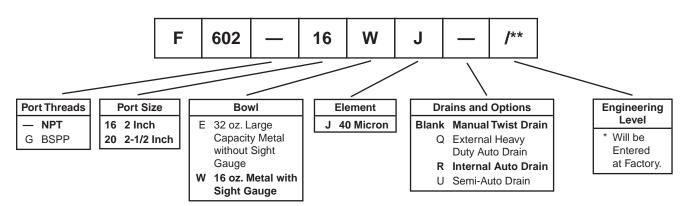
For other models refer to ordering information below.

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

inches (mm)

Ordering Information



C28

BOLD ITEMS ARE MOST POPULAR.

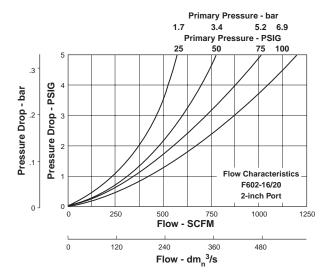


Filters

Coalescers

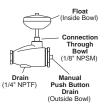
Regulators

Filter/ Regulators



"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 – 32 Ounces Aluminum (E) 32 oz. 32 Ounces Zinc (W) 16 oz. 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) $$40^{\circ}F$$ 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 -

C29

Materials of Construction

Body	Aluminum
Bowls – (E) 32 oz (W) 16 oz Drain –	
Manual Twist & Overnight Housing "R" Housing "Q"	Acetal
Filter Elements – 40 Micron (Standard)	Polypropylene
Seals	Buna N
Sight Gauge	Nylon



() = Bowl Type

C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos

35F, 43F Filters - Hi-Flow



Auto Drain

C

Product election

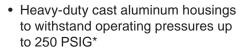
Hiters

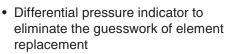
Coalescers

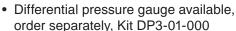
Regulators Filter / Regulators

Lubrica

Features







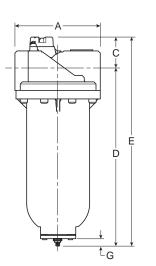
 Unique drain mounting plate design offers a trouble-free method for interchanging and installing external drains

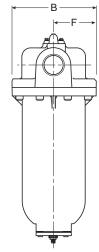
High Flow: 1-1/2" - 1280 SCFM§

2" - 1400 SCFM§

3" - 2900 SCFM§

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





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

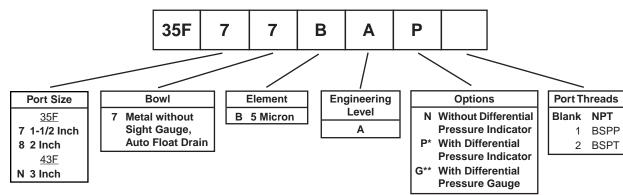
Standard part numbers shown bold.

For other models refer to ordering information below.

	35F Filter Dimensions					
A 7.80 (198)			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

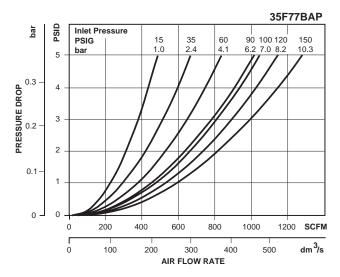


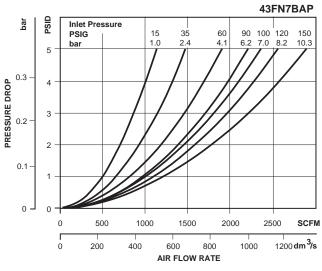
* Max. pressure rating 150 PSIG.

** Gauge ships loose.



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





35F87BAP Inlet Pressure bar 90 100 120 150 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	
Manual Drain Kit with 1/2" Drain Plate	GRP-95-392

Specifications

Maximum Supply without DPI and with Pressure Gauge........

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

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

Materials of Construction

C31

Baffle	Plated Steel
Body	Aluminum
Bowls	Aluminum
Deflector	Plated Steel
Element Retainer	Plated Steel
Filter Element	Polyethylene
Seals	Fluorocarbon
Stud	Plated Steel



C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulator

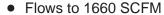
Lubricators

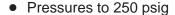
Compos

Air Line Coalescing Filters

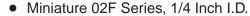
Coalescing Filters







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 Series Flanged Fllters, 4 & 6 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.

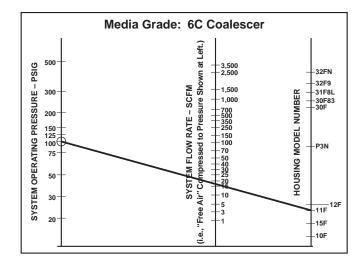
C32

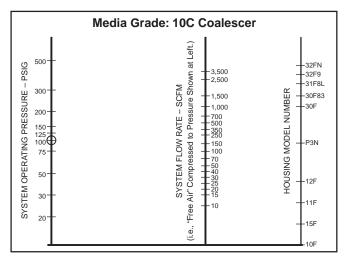
Prep-Air® II

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

Coalescing Filters (Oil Removal)

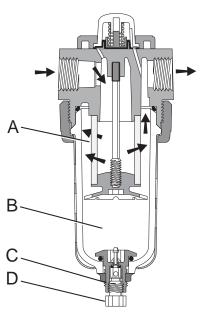
Specifically designed for the removal of solid particles, water and oil aerosols down to 0.01 micron. Maximum remaining oil content of air leaving the filter down to 0.01ppm at 70°F (21°C) at a pressure of 100 psig (6.9 bar) using a typical compressor lubricant. Two filter element grades are offered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

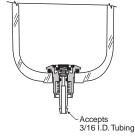
Filter / Regulators

Lubricators

Compos

Accessories

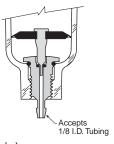
Semi Automatic Drain



(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.

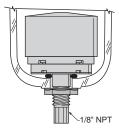
Automatic Pulse Drain



(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

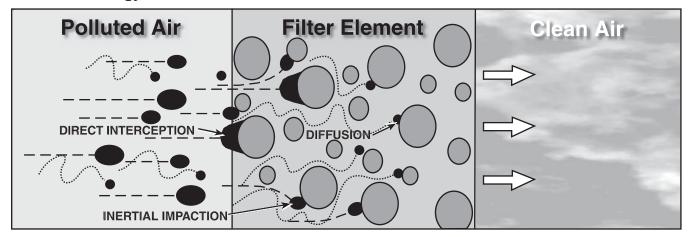


The float internal to this drain rises with increased liquid level. When the float rises, it opens a seat area allowing the trapped liquids to drain through the bottom.

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



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.

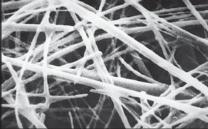


Direct Interception occurs when a particle collides with and adheres to a fiber of the filter material without deviating out of the streamline flow. This mechanism tends to take place on the surface of the filter material and affects mainly larger particles over 1 micron in size.



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.

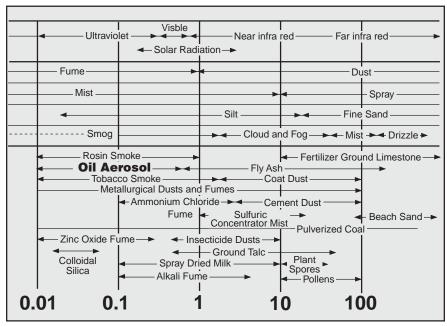


Above: Clean borosilicate microfiber seen at a magnification factor of 3900. Right: The same filter material in a contaminated state at the same degree of magnification.



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

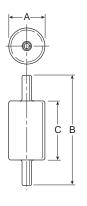
- · Clear nylon housing.
- Full length support tube.
- · Positive tube seals.
- · Optional filter grades available.
- · Disposable.
- High Flow: Grade 6 3.5 SCFM§
 Grade 10 5.3 SCFM§

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	
4 / 4 !!	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.

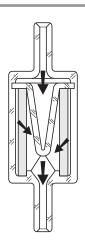


02F Coalescing Filter Dimensions		
Α	В	С
1.00	3.28	1.69
(25)	(83)	(43)

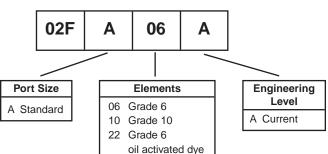
Inches (mm)

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.



Ordering Information



Specifications

C35

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

Materials of Construction

Element	Borosilicate & Felt Glass Fibers
Housing	Nylon



C

Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

ombos

10F Coalescing Filters - Miniature

•

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.

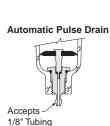
 Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.

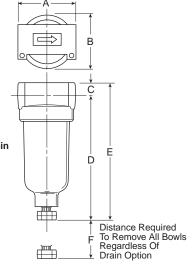
• Interchangeable twist and automatic pulse drains.

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"	10F01ED	10F05ED
1/4"	10F11ED	10F15ED
Metal Bowl without Sight Gauge		
1/8"	10F03ED	10F07ED
1/4"	10F13ED	10F17ED

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.

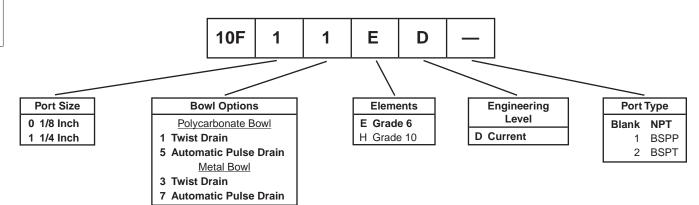
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

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

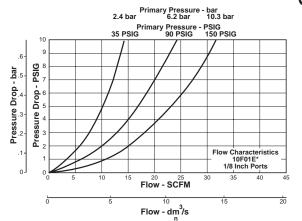


C36

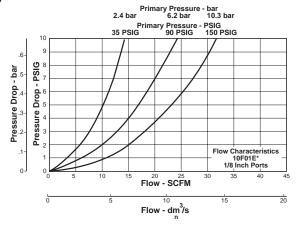


Coalescing Filters (Oil Removal)

Technical Information

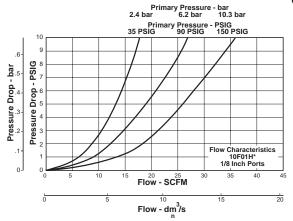


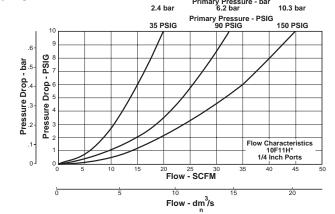
Grade 6



Grade 10

C37





10F Coalescing Filter Kits & Accessories

Bowl Kits –	
Poly Bowl - Automatic Pulse Drain	PS408BP
Twist Drain	
Metal Bowl -Automatic Pulse Drain	PS451BP
Twist Drain	PS447BP
Filter Element Kits – Grade 6 (Standard)	PS446P
Grade 10 (Optional)	PS456P
Mounting Bracket Kit	PS417BP

Materials of Construction Body Zinc

Bowls	Transparent Polycarbonate
	Metal (Zinc) Without Sight Gauge
Drains - Twist Drain -	
Body & Stem	Plastic
Seals	Nitrile
Automatic Pulse Drain -	
Piston & Seals	Nitrile
Stem, Seat, Adaptor &	WashersAluminum
Element Holder	Plastic
Filter Element –	
Borosilicate & felt glass fibers 99	9.97% DOP efficiency
_	(Grade 6) 0.01 Micron Grade 6) 0.30 Micron

Specifications

Specifications	
Automatic Pulse Drain Tube Bar	rb 1/8 Inch
Bowl Capacity	1 Ounce
Operation –	
	pp2 psig sure Drop
Port Threads	1/8, 1/4 Inch
Pressure & Temperature Rating	s –
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 Drain10 to 250 psig (0.7 to 17.2 bar) at 125°F (52°C) or less

Weight 0.41 lb. (0.18 kg)



15F Coalescing Filters – Economy



Coalescers

Regulators

Combos

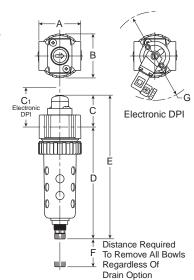
Accessories

Features

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

(Revised 05-13-14)

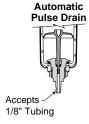
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic pulse drains.
- · Differential pressure indicator standard.
- High Flow: Grade 6 Element Grade 10 Element 1/4" - 30 SCFM § 1/4" - 51 SCFM§ 3/8" - 30 SCFM § 3/8" - 66 SCFM§



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

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.

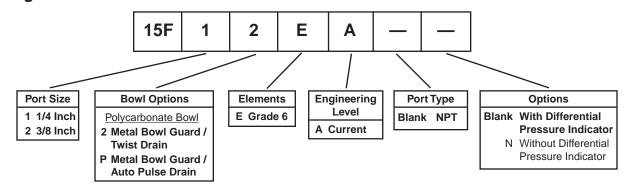
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.



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

Inches (mm)

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

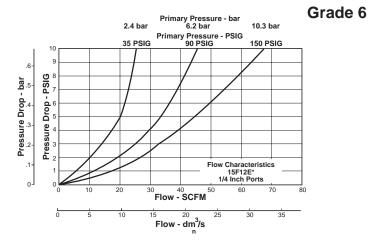


C38

[†] With Twist Drain or Automatic Float Drain

Technical Specifications – 15F

Technical Information



10.3 bar Primary Pressure - PSIG 90 PSIG 150 PSIG Pressure Drop - PSIG Pressure Drop - bar Flow Characteristics 15F22E* 3/8 Inch Ports Flow - SCFM Flow - dm³/s

15F Coalescing Filter Kits & Accessories Bowl Guard KitPS905P

Bowl Kits –		
Poly Bowl –	Automatic Pulse Drain	PS995P
·	Twist Drain PS932PDPI F	Replacement Kit
PS781P		
Electronic DP	I Replacement Kit	PS764
Drain Kit -	Automatic Pulse Drain	PS998P
	Twist Drain	PS512P
Electrical Con	nector - 15mm, 3-Pin DIN, 6 Ft. Co	rdPS2932JBP
Filter Element	Kits - Grade 6 (Standard)	PS924P
Mounting Bra	cket Kit	PS943P
Sight Gauge k	Kit	PS914P

Specifications

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

Pressure & Temperature Ratings -

Without Differential Pressure Indicator:

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

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

32°F to 175°F (0°C to 80°C)

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

Weight 1.2 lb. (0.54 kg)

Materials of Construction

Body	Zinc
Bowls	Transparent Polycarbonate
Meta	al (Zinc) Without Sight Gauge
Bowl Guards	Steel
Collar	Plastic
Drain	Plastic
Filter Element –	
Borosilicate & felt glass fibers 99.979	% DOP efficiency
Largest Aerosol Particle Passed (Gra	ade 6)0.01 Micron
Largest Solid Particle Passed (Grade	e 6)0.30 Micron
Seals	Nitrile
Sight Gauge, DPI	Polyamide (Nylon)



Filters

Coalescers

Regulators

Lubricators

Combos



11F Coalescing Filters – Compact

Coalescers

Regulators

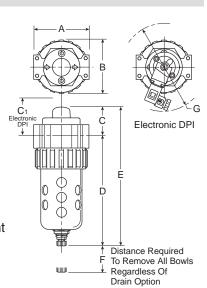
Filter / Regulators

Accessories

Features

- · Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- 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 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"	11F12EC	11F16EC	
3/8"	11F22EC	11F26EC	
1/2"	11F32EC	11F36EC	
Metal Bowl / Sight Gauge			
1/4"	11F14EC	11F18EC	
3/8"	11F24EC	11F28EC	
1/2"	11F34EC	11F38EC	

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.

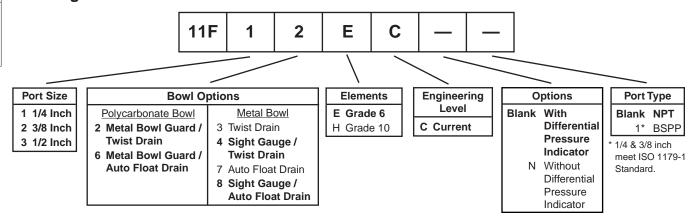
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

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

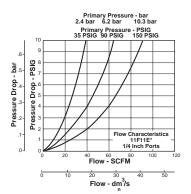
Ordering Information

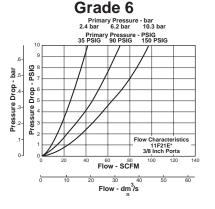


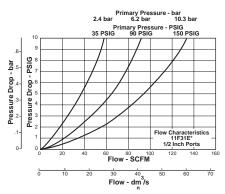


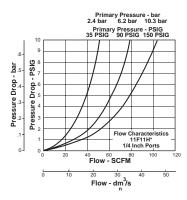
Coalescing Filters (Oil Removal)

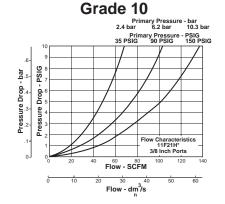
Technical Information

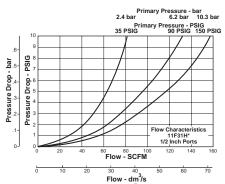












11F Coalescing Filter Kits & Accessories

TII Coale	soling Filler Mils & Accessorie	5 3
Bowl Guard	Kit	PS705P
Bowl Kits -		
Poly Bowl -	- Automatic Float Drain	PS722P
•	Twist Drain	PS732P
Metal Bowl	- Automatic Float Drain	PS726P
	Twist Drain	PS734P
	Sight Gauge / Automatic Float Drain	
	Sight Gauge / Twist Drain	PS735P
DPI Replace	ment Kit	PS781P
Electronic D	PI Replacement Kit	PS764
Drain Kits -	Automatic Float Drain	PS506P
	Semi-Auto Drain	PS511P
	Twist Drain	
	Push 'N' Drain	PS513P
Electrical Co	nnector - 15mm, 3-Pin DIN, 6 Ft. CordI	PS2932JBP
Filter Elemer	nt Kits - Grade 6 (Standard)	PS724P
	Grade 10 (Optional)	PS730P
Mounting Br	acket Kit	PS743P
Sight Gauge	Kit	PS914P
0 0		
Specifica	tions	
-		4.4.Oupooo
	ty	
	ity1	
Operation –	Normal Operating Pressure Drop	
	Maximum Recommended Pressure Drop	10 psig
	(Element should be replaced)	
	Minimum Recommended Flow –	
	20% Nominal Rating of Element	
Port Threads	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

Transparent Polycarbonate
Metal (Zinc) With or Without Sight Gauge
Steel
Plastic
Body & Nut Plastic - Body Nitrile Stem Brass
at DrainHousing, Float Plastic SealsNitrile Springs, Push RodStainless Steel

Filt

C41

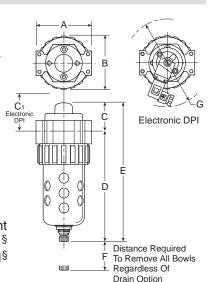
Filter Element –
Borosilicate & felt glass fibers 99.97% DOP efficiency
Largest Aerosol Particle Passed (Grade 6) 0.01 Micron
Largest Solid Particle Passed (Grade 6) 0.30 Micron
SealsNitrile
Sight Gauge Polyamide



12F Coalescing Filters – Standard

Features

- · Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic float drains.
- · Differential pressure indicator standard.
- · Shown with recommended metal bowl guard.



Port	NI	PT	
Size	Twist Drain	Automatic Float Drain	
Poly Bowl ‡ / Metal Guard			
1/2"	12F32EC	12F36EC	
3/4"	12F42EC	12F46EC	
Metal Bowl / Sight Gauge			
1/2"	12F34EC	12F38EC	
3/4"	12F44EC	12F48EC	

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.

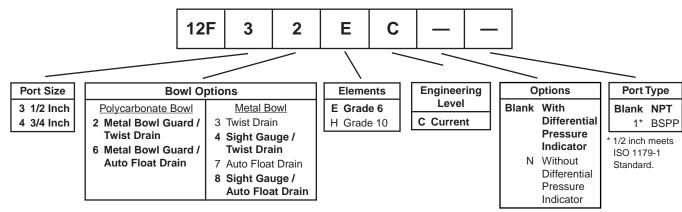
- [‡] For polycarbonate bowl see Caution on page C2.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

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)

† With Automatic Float Drain

Ordering Information

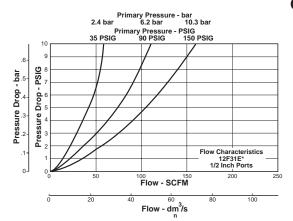


C42

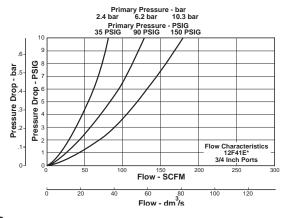


Coalescing Filters (Oil Removal)

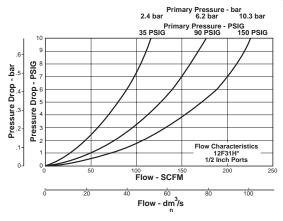
Technical Information

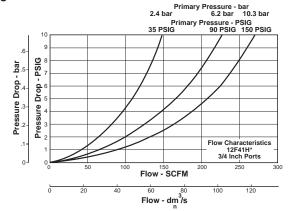


Grade 6



Grade 10





12F Coalescing Filter Kits & Accessories

	escing i liter Kits & Accessorie	
Bowl Guard	Kit	PS805P
Bowl Kits -		
Poly Bowl	- Automatic Float Drain	PS822P
	Twist Drain	PS832P
Metal Bowl	I –Automatic Float Drain	PS826P
	Twist Drain	PS834P
	Sight Gauge / Automatic Float Drain	PS823P
	Sight Gauge / Twist Drain	PS835P
DPI Replace	ment Kit	PS781P
Electronic D	PI Replacement Kit	PS764
Drain Kits -	Automatic Float Drain	PS506P
	Semi-Auto Drain	PS511P
	Twist Drain	PS512P
	Push 'N' Drain	PS513P
Electrical Co	onnector - 15mm, 3-Pin DIN, 6 Ft. Cord P	S2932JBP
Filter Elemen	nt Kits - Grade 6 (Standard)	PS824P
	Grade 10 (Optional)	PS830P
Mounting Br	acket Kit	PS843P
Sight Gauge KitF		PS914P
Specifica	tions	
•	ity7	.2 Ounces
Sump Capacity 2.8 Ounce		
Operation – Normal Operating Pressure Drop2 psig		
Maximum Recommended Pressure Drop10 psig		
	(Element should be replaced)	
	Minimum Recommended Flow –	
	20% Nominal Rating of Element	
Port Threads	s 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) V	Vith or Without Sight Gauge	
Bowl Guard	Steel	
Collar	Plastic or Metal	
Drains - Twist Drain - Body & Nut	Plastic	
Push 'N' Drain – Body Stem	Nitrile Brass	
	Housing, Float PlasticNitrile h RodStainless Steel	
Filter Element –		
Borosilicate & felt glass fibers 99.97% DOP efficiency		

zorodniodio di reit giaco nizoro cono. 70 z or cinicio.	
Largest Aerosol Particle Passed (Grade 6)	0.01 Micron
Largest Solid Particle Passed (Grade 6)	0.30 Micron
Seals	Nitrile
Sight Gauge	Polyamide



P3NF Coalescing Filters - Hi-Flow



Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories

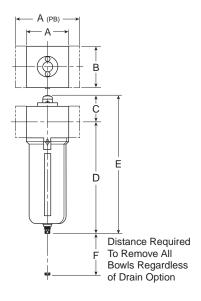
Features

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies.
- · Metal bowl with sight gauge.
- Large filter element surface guarantees low pressure drop and increased element life.
- Twist Drain as standard, optional automatic float drain.
- · High Flow: Grade 6 Element

3/4" - 130 SCFM§

1" - 140 SCFM§

1-1/2"† - 150 SCFM§



Port	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 other models refer to ordering information below.

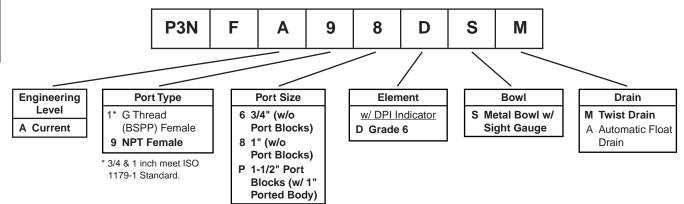
- † 1" Port Body with 1-1/2" Port Block.
- § SCFM = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

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

Inches (mm)

[†] With Twist Drain or Automatic Float Drain

Ordering Information

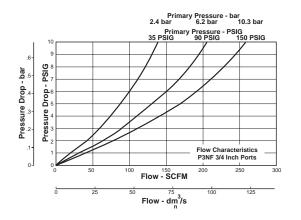


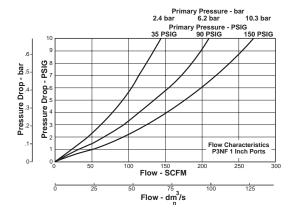
Note: BSPP ported units supplied using NPT ported bodies and BSPP port block kits.

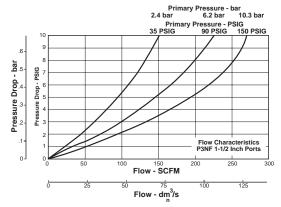


Grade 6

(Revised 05-27-14)







P3NF Coalescing Filter Kits & Accessories

P3NKA00BSA
P3NKA00BSM
C11A33
PS781P
PS506P
PS512P
P3NKA00ESCB
P3NKA00PE
P3NKA00MW

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

Specifications

18.0 Ounces
6.8 Ounces
су
0.01 Micron
0.30 Micron
(0 to 17.2 bar)
(0°C to 80°C)
to 17.2 bar)

Materials of Construction

Body & Bowl	Aluminum
Deflector	Plastic
Drain	Plastic
Seals	Nitrile
Sight Gauge	Polyamide (Nylon)
Weight - 3/4"	3.5 lb. (1.6 kg)
1"	3.5 lb. (1.6 kg)
1-1/2" [†]	4.6 lb. (2.1 kg)
[†] 1" Port Body with 1-1/2" Port Block.	



Product Selection

Filters

Coalescers

Regulators

Filter / Regulator

Lubricators

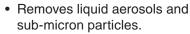
Combos

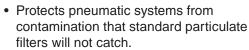


F701 Coalescing Filters

•>

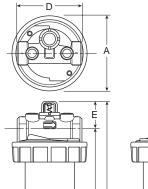
Features

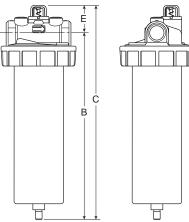




- · Two different grade elements available.
- Differential pressure indicator (pop-up) standard.
- · Differential pressure gauge optional.
- High flow design.

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





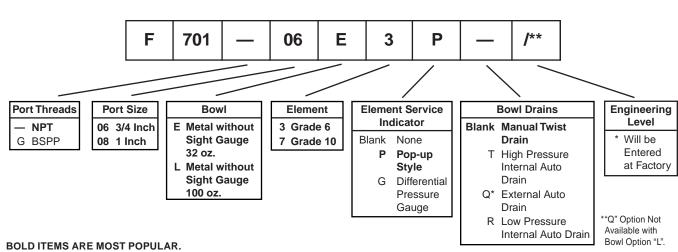
	G	rade 6	Gi	rade 10				
Port Size	Flow (SCFM)*	Part Number	Flow (SCFM)*	Part Number				
Metal B	owl 32 oz.							
3/4"	95	F701-06E3P	158	F701-06E7P				
1"	95 F701-08E3P		158	F701-08E7P				
Metal B	owl 100 oz.							
3/4"	170	F701-06L3P	285	F701-06L7P				
1"	170	F701-08L3P	285	F701-08L7P				
* Dry med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

F701 Coalescing Filter Dimensions							
Port Size Bowl Capacity A B C 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



C46

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

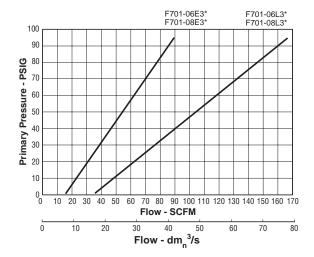
Coalescing Filters (Oil Removal)

Technical Information

Media Specifications

G r a	D.O.P. Coalescing Efficiency	Maximum Oil Carryover ¹	ver ¹			
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	
3/4, 1 Inch (L) 100 oz	
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) Manual Twist Drain	
Filter Element Kits – Port Size / Grade 6	
3/4, 1 Inch (E) 32 oz	F701-C3-0773
3/4, 1 Inch (L) 100 oz	F701-C3-0774
Port Size / Grade 10	
3/4, 1 Inch (E) 32 oz	F701-C7-0773
3/4, 1 Inch (L) 100 oz	
• • • • • • • • • • • • • • • • • • • •	

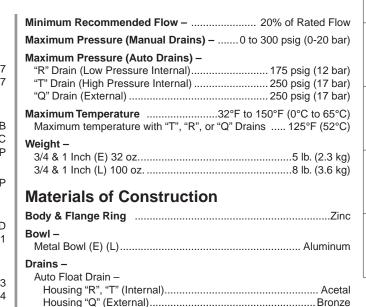
Specifications

Op	era	tion	_
----	-----	------	---

Maximum Recommended Pressure Drop	10 psig
(element should be replaced)	
Normal Operating Pressure Drop (Dry)	2 psig
Normal Operating Pressure Drop (Wet)	5 psig

C47

() = Bowl Type



Manual Twist Drain Brass

Seals & Float Buna N

Springs Stainless Steel

 Elements (Media)
 Borosilicate Fibers & Felt

 Element End Caps
 Urethane

 Seals
 Buna N

Product Selection

Filters

Regulators Coalescers

Filter / equlators

Lubricators

Combos



² Add dry + wet for total pressure drop.

D.O.P. = Dioctylphthalate

35F, 43F Coalescing Filters - Hi-Flow



Auto Drain

C

Product election

ilters

Coalescers

Regulators

Filter / Lubricators Regulators

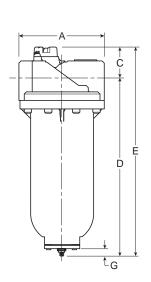
Features

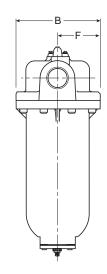
 Heavy-duty cast aluminum housings to withstand operating pressures up to 250 PSIG*

(Revised 01-10-14)

- 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).





35F Type Automatic drain		Port	Element	Part number (NPT)
35F 1-1/2 1.0 micron 35F77HAP 2 0.01 micron 35F87EAP 2 1.0 micron 35F87HAP 3 0.01 micron 43FN7EAP				Automatic drain
35F 2 0.01 micron 35F87EAP 2 1.0 micron 35F87HAP 3 0.01 micron 43FN7EAP		1-1/2	0.01 micron	35F77EAP
2 0.01 micron 35F87EAP 2 1.0 micron 35F87HAP 3 0.01 micron 43FN7EAP	255	1-1/2	1.0 micron	35F77HAP
3 0.01 micron 43FN7EAP	335	2	0.01 micron	35F87EAP
43F		2	1.0 micron	35F87HAP
3 1.0 micron 43FN7HAP	42E	3	0.01 micron	43FN7EAP
	435	3	1.0 micron	43FN7HAP

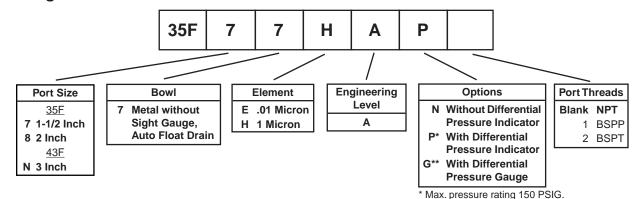
	35F Coalescing Filter Dimensions								
A 7.80 (198)	7.80 7.76 2.83 16.24 19.07 3.88 .55								
	43F Co	alescii	ng Filte	r Dime	nsions				
Α	A B C D E F G								
8.94	8.88	3.48	25.96	29.44	4.44	.55			
(227)	(225.5)	(88)	(659.4)	(748)	(112.8)	(14)			

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



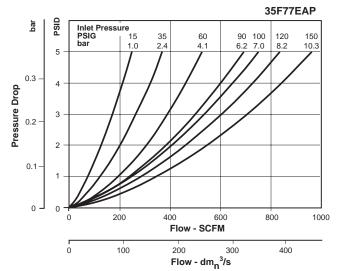
BOLD ITEMS ARE MOST POPULAR.

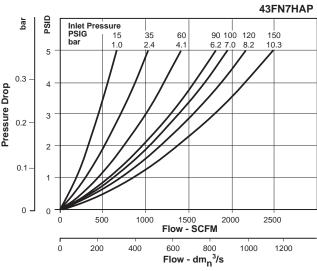


** Gauge ships loose.

Coalescing Filters (Oil Removal)

Technical Information





35F87EAP bar Inlet Pressure PSIG 90 100 6.2 7.0 10.3 1.0 0.3 Pressure Drop 0.2 0.1 0 400 600 Flow - SCFM 200 1000 0 100 200 400 Flow - dm_n³/s

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 35F: 1.0 Micron 35F: Adsorber 43F: 0.01 Micron 43F: 1.0 Micron 43F: Adsorber	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 compressor lubricating oil and protected by 0.01 micron filter.

Materials of Construction

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

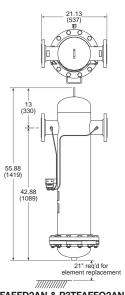


P3TF Series Flanged Filters

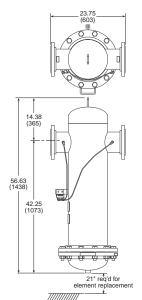
P3TF Series

Features

- No tie rod element design
- · Pleated element technology
- New high efficiency drainage layer
- Designed in accordance with ASME and CRN
- Connection sizes: 4 inch & 6 inch flange
- Acrylic polyurethane coating for corrosion protection







P3TFAFGD3AN & P3TFAFGQ3AN

C

Product Selection

Filter

Coalescers

Regulators

Filter / Regulators

Lubricator

Combos

Flanged Filters

Port size	Flow SCFM	Element type	Number of elements	Part number
4" Flange	2755	0.01 micron	4	P3TFAFFD2AN
4" Flange	2755	1.0 micron	4	P3TFAFFQ2AN
6" Flange	4132	0.01 micron	6	P3TFAFGD3AN
6" Flange	4132	1.0 micron	6	P3TFAFGQ3AN

Materials of Construction

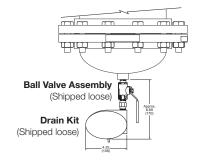
Body	Steel
Baffle	Plated Steel
Deflector	Plated Steel
Filter Element 0.01 & 1.0 Micron	Borosilicate Cloth
Seals	Fluorocarbon
Stud	Plated Steel

Operating Information

P3TF Series
Operating Pressure: 232 PSIG (16 bar)
Operating Temperature: 35°F to 212°F (1.5°C to 100°C)

Service Kits

Descrip	tion	Number Required	P3TF Series
Dp Gauge Replace	ement Kit		DPG-Kit
Drain Kit - 1/2" NP	Т		HDF-120-NPT-A
Filton Flourout Kit	0.01 Micron	4 or 6	PSY1035002
Filter Element Kit	1.0 Micron	4 or 6	PSY1035001



Inlet Air Pressure Correction

For pressures above 232 PSIG (16 bar), use manual drain.

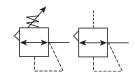
																	(.0 50.),	400 man	aar aram	•
PSI	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	247	261	275	290
bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Factor	0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51	1.56	1.60	1.65	1.70



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

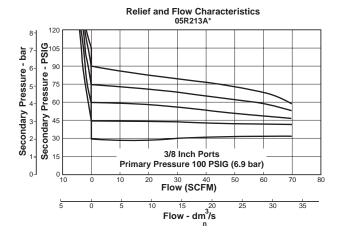
Miniature Regulators for Water Service

- 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:

C52

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.



General Purpose Regulators

Used to provide a convenient and low cost method to reduce a supplied air pressure to a desired outlet pressure and transform a fluctuating air supply to a relatively constant reduced air pressure within the operating range of the regulator.

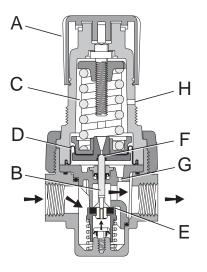
This type of regulator is generally used in a widevariety of applications where reduced pressure is highly desirable for energy conservation, safety requirements, air circuit control and air instrumentation.

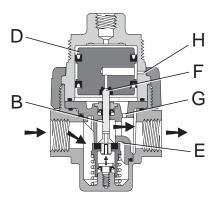
Operation

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 (\mathbf{D}) to move upward against control spring (\mathbf{C}), open vent hole (\mathbf{F}), and vent the excess pressure to atmosphere through the hole in the bonnet (\mathbf{H}). (This occurs in the relieving type regulator only.)







Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos



14R Regulators - Miniature

Filters

Coalescers

Regulators

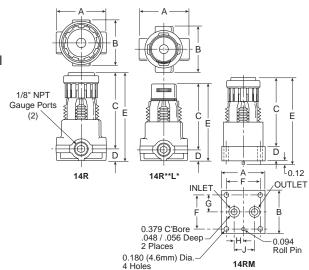
Filter / Regulators

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	е
1/8"	14R013FC
1/4"	14R113FC
With Gauge	
1/8"	14R018FC
1/4"	14R118FC

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 1.65 (42)	B 1.56 (40)	C 2.50 (63.5)	D 0.38 (10)	E 2.88 (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)		
	F 1.188 (30.18)	G 0.594 (15)	H 0.325 (8)	J 0.725 (18)			

Inches (mm)

C

	_	_
	Port Size	
0	1/8 Inch Pipe,	ſ
ı	1/8 Inch	1
	Gauge Port	1
1	1/4 Inch Pipe,	1
1	1/8 Inch	1
	Gauge Port	1
В	1/4 Inch Pipe,	1
	1/4 Inch	1
	Gauge Port	1
C	1/8 Inch Pipe,	1

Ordering Information

Port Size	Pressu	re Range	Relief
0 1/8 Inch Pipe, 1/8 Inch Gauge Port 1 1/4 Inch Pipe, 1/8 Inch Gauge Port	Withou Yellow Knob 10 30 psig 11 60 psig 12 15 psig 13 125 psig	Black Knob B0 30 psig B1 60 psig B2 15 psig B3 125 psig	F Relieving G Non-Relieving H Low Temp. Relieving J Low Temp. Non-Relieving
B 1/4 Inch Pipe, 1/4 Inch Gauge Port C 1/8 Inch Pipe, No Gauge Port M Manifold Mounting		Gauge* B5 30 psig B6 60 psig B7 15 psig B8 125 psig	Eng C C
	* Not available w	ith BSPP or BSPT	

14**R**

1

13

port types.

Port Type Blank NPT 1 BSPP 2 BSPT Engineering Level Current

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

Options

Blank No Options

Preset

Preset Non-

Adjustable

Adjustable

Adjustable

Pressure

Max. Non-

Limiter

Pressure Limiter Max.

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.

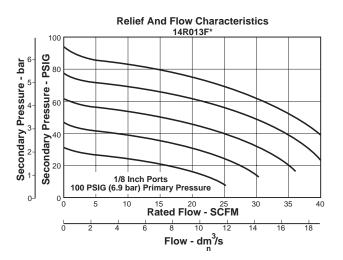
(Example: 065 = 65 psig

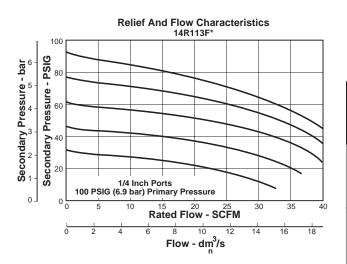
Spring Type by Preset / Limited Pressure:

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







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 Ass	sembly Kit	L01369
Bonnet Tan	nperproof Kit	P01265
- 1	30 psig, 1/8" NPT (0 to 2.1 bar)	K4515N18060 K4515N18160 K4520N14060
Mounting B	Bracket Kit* (Includes Panel Mount Nut)	PS417BP
Panel Mour	nt Nuts* – Plastic Metal	
Poppet / Pis	ston Kits – Unbalanced, Non-Relieving. Unbalanced, Relieving	
1 1	-15 psig Range (Yellow) -30 psig Range (Black) -60 psig Range (White) -125 psig Range (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

C55

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



Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

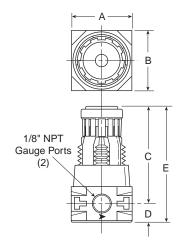
Lubricators

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	e
1/8"	P3A-RN91YNN
1/4"	P3A-RN92YNN

Port Size	NPI
Without Gaug	le e
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.

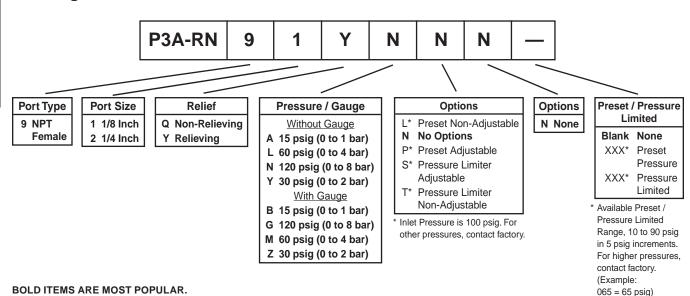
NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

§ 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)			

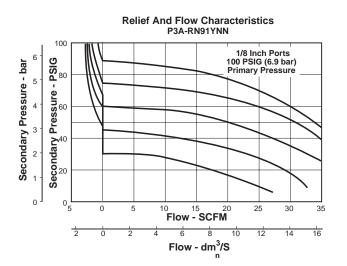
Inches (mm)

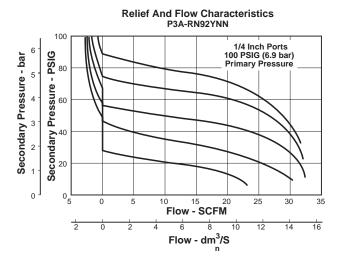
Ordering Information



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.

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Specifications

Gauge Ports (2)			1/8 lı	ncl
Operating Pressure F	psig	bar		
Primary –	Maximum	120	8.3	
Secondary –				
15 psig Spring	Minimum Maximum	1 15	0.07 1.0	
30 psig Spring	Minimum Maximum	6 30	0.4 2.1	
60 psig Spring	Minimum Maximum	6 60	0.4 4.1	
110 psig Spring	Minimum Maximum	6 110	0.4 7.6	

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

 Port Threads
 1/8, 1/4 Inch

 Weight
 0.23 lb. (0.10 kg)

Materials of Construction

C57

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

Accessories Combos

R34 Regulators - Miniature



Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories





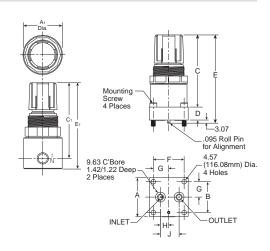
- · Diaphragm operated for fast operation.
- · Large Diaphragm to valve area ratio for precise regulation and high flow capacity.
- · Balanced valve design for precise regulation.
- Available in 2 or 4 port design.
- · Available with a manifold mount to minimize plumbing.
- Suitable for low temperature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





R344-02C

R342-0MC

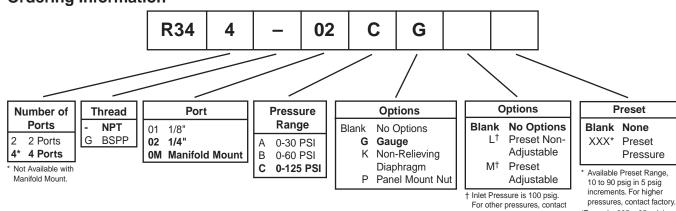


R34 Miniature Regulator					
	Di	mensio	ns		
Α	A 1	В	B 1	С	
1.50	1.54	1.188	1.56	2.75	
(38.1)	(39.2)	(30.18)	(39.6)	(69.9)	
C 1	D	E	E1	F	
2.70	0.50	3.25	3.25	1.188	
(68.6)	(12.7)	(82.6)	(82.6)	(30.18)	
G	Н	J			
0.60	0.32	0.73			
(15.2)	(8.1)	(18.5)			

Model	Port Size	Without Gauge	Without Gauge	Without Gauge	With 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

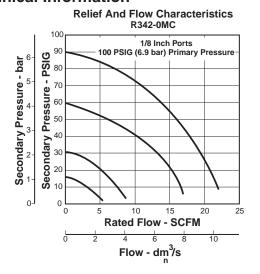


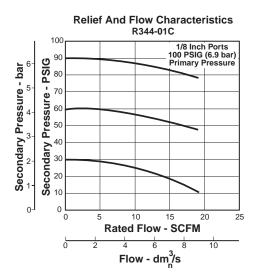
BOLD ITEMS ARE MOST POPULAR.



factory.

(Example: 065 = 65 psig)





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.

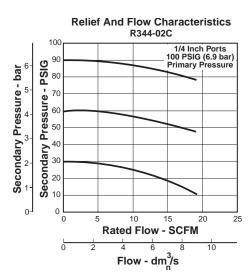
For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.



R34 Regulator Kits and Accessories

Diaphragm Assembly - Non-relieving
Spring, Regulating - 0 to 30 psig (0 to 2.1 bar)
Panel Mount Nut – Aluminum R05X51-A Plastic R05X51-P
Mounting Bracket Kit (Includes Panel Mount Nut)SA161X57
Gauges – 0 to 60 psig (0 to 4.1 bar), 1-1/2" Dial Face, 1/8 NPT, CBM K4515N18060 0 to 160 psig (0 to 11.0 bar), 1-1/2" Dial Face, K4515N18160 Tamperproof Knob Kit P31KB00AT

Materials of Construction

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

Specifications

C59

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



C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

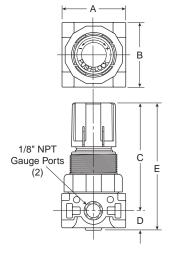
Combos

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



	NF	РТ
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.

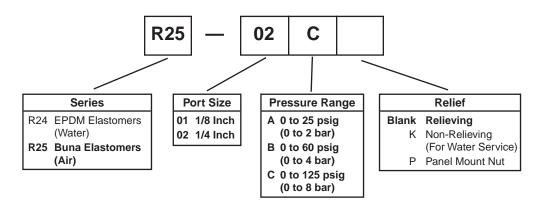
For other models refer to ordering information below.

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)

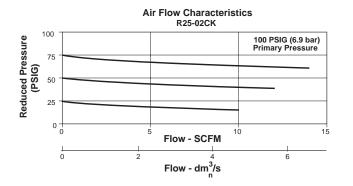
Ordering Information

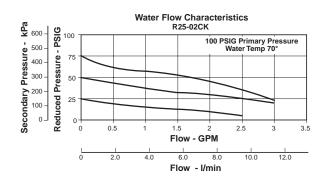


C60

BOLD ITEMS ARE MOST POPULAR.







CAUTION:

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

⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

R24, R25 Regulator Kits and Accessories

R05X51-P
R05X51-A
SA161X57
RKR25Y
RKR25KY
RKR24Y
RKR24KY
SPR-375-1
SPR-376
SPR-377

Specifications

Gauge Ports (2)	1/8 Inch
	(Can be used for full flow)
Pressure Rating - Maximum Inlet F	Pressure 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

C61

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



C

Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

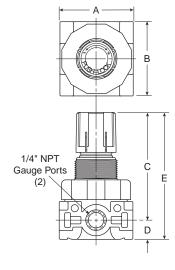
Combos

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



	NI	РΤ
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.

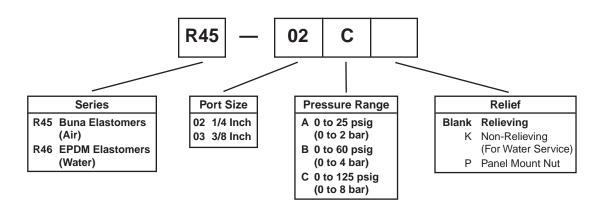
For other models refer to ordering information below.

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)	

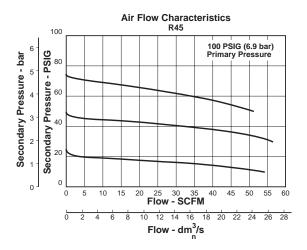
Inches (mm)

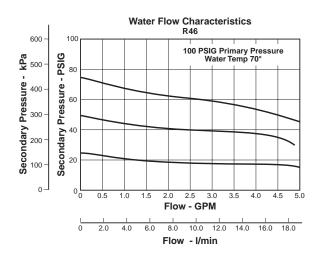
Ordering Information



C62







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	SPR-47
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

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



Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

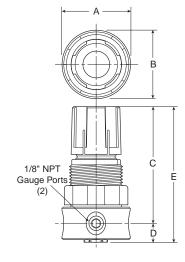


20R Regulators - Miniature (Water Service)



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



Port Size	NPT
Without Gaug	e
1/8"	20R013GC
1/4"	20R113GC

Bold Items are Most Popular.

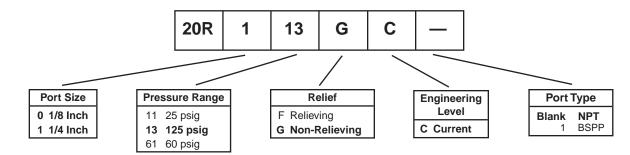
For other models refer to ordering information below.

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



C64

BOLD ITEMS ARE MOST POPULAR.

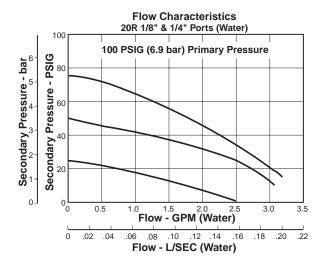


Coalescers

Regulators

Filter/ Regulators

Lubricators



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)
Medium Pressure	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 Button	Brass
Bonnet, Knob	Plastic
Seals, Diaphragm	Buna N
Springs	Steel



15R Regulators – Economy



Coalescers

Regulators

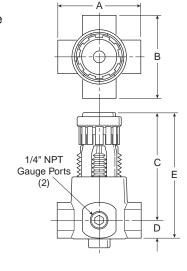
Filter/ Regulators

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§



اللل	

Port Size	NPT
Without Gaug	e
1/4"	15R113FB
3/8"	15R213FB
With Gauge	
1/4"	15R118FB
3/8"	15R218FB

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

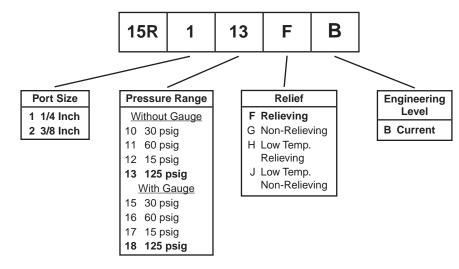
NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

§ 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)	

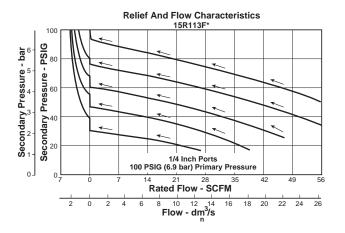
Inches (mm)

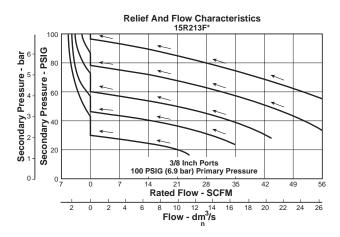
Ordering Information



C66







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

Dadu Camilaa Kit - Umbalamaad

Body Service Kit – UnbalancedPS424BP		
Bonnet Assembly Kit	L01369	
Gauges - 30 psig, 1/8" NPT (0 to 2.1 bar)		
60 psig, 1/8" NPT (0 to 4.1 bar)	K4515N18060	
160 psig, 1/8" NPT (0 to 11.0 bar)		
60 psig, 1/4" NPT (0 to 4.1 bar)	K4520N14060	
160 psig, 1/4" NPT (0 to 11.0 bar)	K4520N14160	
Mounting Bracket Kit* (Includes Panel Mount Nut)	PS417BP	
Panel Mount Nuts* - Plastic	P78652	
Metal		
Poppet / Piston Kits - Unbalanced, Non-Relieving	J PS428P	
Unbalanced, Relieving	PS426P	
Seal Kit - Unbalanced	PS454B	
Springs - 1-15 psig Range (Yellow)	P01176	
1-30 psig Range (Black)	P01175	
1-60 psig Range (White)	P01174	
2-125 psig Range (Gold)		

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

Specifications

DC 40 4DD

C67

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)

Materials of Construction

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



05R Regulators - Economy



Coalescers

Regulators

Filter/ Regulators

Lubricators

Accessories

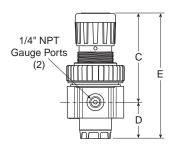
Features

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

(Revised 05-13-14)

- · 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 Gaug	e	
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)	

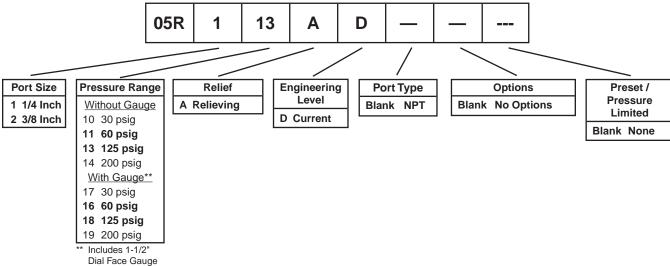
Inches (mm)

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

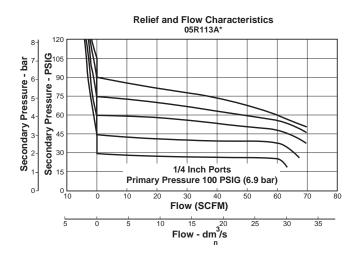
NOTE: 1.53 Dia. (39mm) hole required for panel mounting.

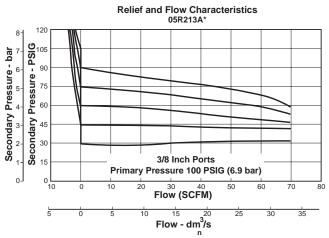
§ SCFM = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

Ordering Information









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 KitPS915P)
Control KnobP04420)
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)
Nounting Bracket KitPS963P)
Panel Mount Nut – MetalPS964P)
Springs – 1-30 psig RangeP04427	,
1-60 psig RangeP04426	;
2-125 psig RangeP04425	
2-200 psigP02934	
Service Kit - RelievingPS908P)

Specifications

C69

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



Filters

Coalescers

Regulators

Lubricators

Combos

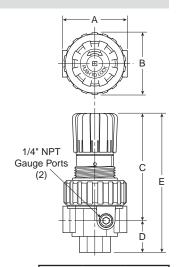
06R Regulators - Compact



Features

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

•	
Port Size	NPT
Without Gaug	e
1/4"	06R113AC
3/8"	06R213AC
1/2"	06R313AC
With 160 PSI	Gauge
1/4"	06R118AC
3/8"	06R218AC
1/2"	06R318AC



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

Inches (mm)

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.

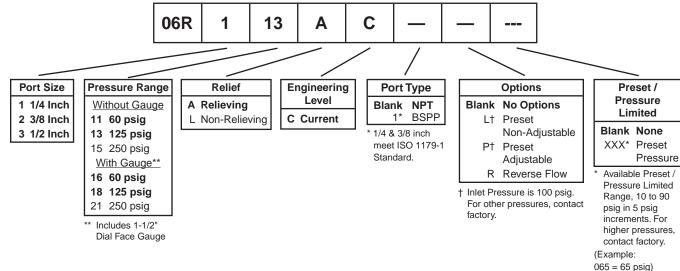
⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

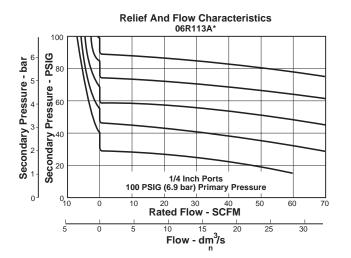
Ordering Information

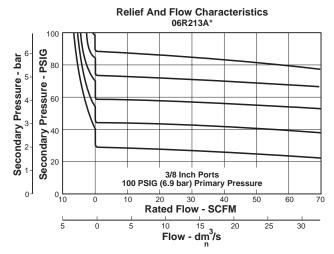


Spring Type by Preset / Limited Pressure:

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





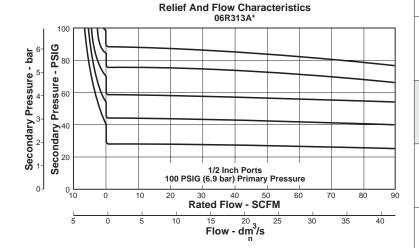


CAUTION:

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 As	sembly Kit	PS715P
Control Kı	10b	P04069B
Gauges -	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
	1-3/4" Digital Round Face	
	160 psig (0 to 11.0 bar)	K4517N14160D
Mounting	Bracket Kit (Includes Panel Mount Nu	t) PS707P
Panel Mou	ınt Nut – Plastic	P04082
	Metal	P04079B
Reverse F	low Service Conversion Kit –	
Relieving	g	PS708RP
Service Ki	t - Relieving (Includes Poppet)	PS708P
	Non-Relieving (Includes Poppet)	PS709P
Springs -	1-30 psig Range	P01698
	1-60 psig Range	
	2-125 psig Range	P04063
	5-250 psig Range	
Tamperpro	oof Kit	PS737P

Specifications

Gauge Ports (2)(Can be used as additional High	
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

C71

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



07R Regulators - Standard



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: 1/2" 90 SCFM§ 3/4" – 90 SCFM§

A B	
1/4" NPT Gauge Ports (2)	E

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

Inches (mm)

Port Size	NPT
Without Gaug	e
1/2"	07R313AC
3/4"	07R413AC
With 160 PSI	Gauge
1/2"	07R318AC
3/4"	07R418AC

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.

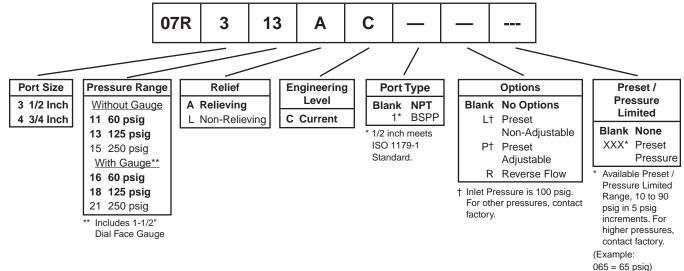
MARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Ordering Information



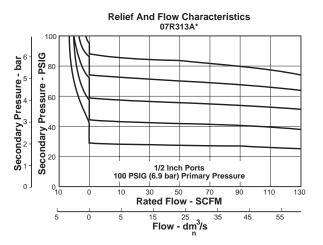
Spring Type by Preset / Limited Pressure:

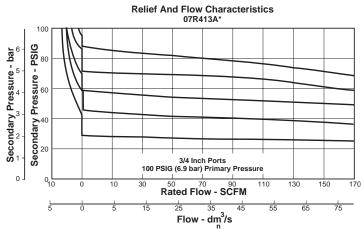
For Preset / Limited Pressure 26 to 50 use 60 PSI Spring For Preset / Limited Pressure 51 to 90 use 125 PSI Spring



Technical Specifications – 07R

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.

07R Regulator Kits & Accessories

Bonnet Assembly KitPS715P
Control Knob
Gauges – 2" Dial Face
60 psig (0 to 4.1 bar)
300 psig (0 to 20.0 bar)
1-3/4" Digital Round Face
160 psig (0 to 11.0 bar)K4517N14160D
Mounting Bracket Kit (Includes Panel Mount Nut)PS807P
Panel Mount Nut - PlasticP04082
Metal P04079B
Reverse Flow Service Conversion Kit –
RelievingPS808RP
Service Kit - Relieving (Includes Poppet)
Springs – 1-30 psig Range P01698 1-60 psig Range P04062 2-125 psig Range P04063 5-250 psig Range P04064
Tamperproof KitPS737P

Specifications

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

Materials of Construction

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



Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos



P3NR Regulators - Hi-Flow

Filters

Coalescers

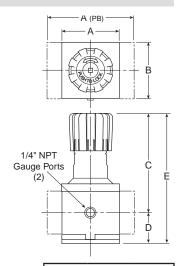
Regulators

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	е
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.

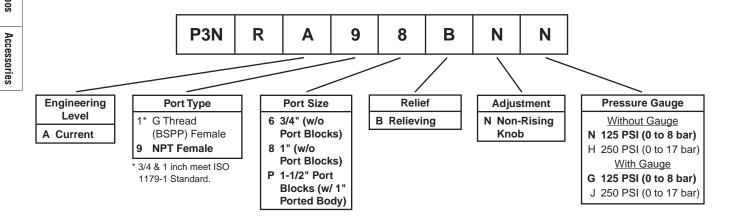
NOTE: 2.00 Dia. (51mm) hole required for panel mounting.

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

⚠ WARNING

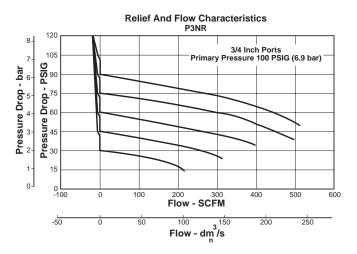
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.

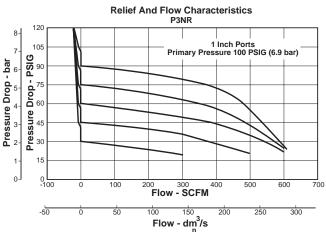
Ordering Information



Note: BSPP ported units supplied using NPT ported bodies and BSPP port block kits.





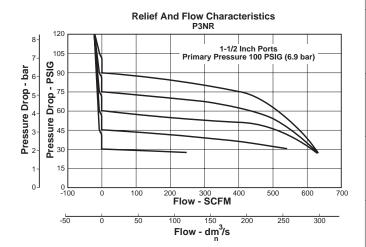


CAUTION:

REGULATOR PRESSURE ADJUSTMENT -

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

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



P3NR Regulator Kits & Accessories

Control Knob	P3NKA00PN
Gauges - 2" Dial Face	
60 psig (0 to 4.1 bar)	
160 psig (0 to 11.0 bar)	K4520N14160
300 psig (0 to 20.0 bar)	
1-3/4" Digital Round Face	
160 psig (0 70 11.0 bar)	K4517N14160D
Mounting Bracket Kit*	P3NKA00MW
Service Kit - Relieving	P3NKA00RR
Non-Relieving	P3NKA00RN
Springs – 1-60 psig Range	C10A1304
2-125 psig Range	C10A1308
5-250 psig Range	

Specifications
Gauge Ports (2)

C75

Gauge Ports (2)(Can be used as additional High Flo	
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)

Materials of Construction

materials or 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	

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



Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

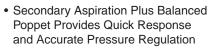
R119 Regulators - Standard

Features

 High Flow Performance Featuring Rugged Design for the Most Demanding Applications



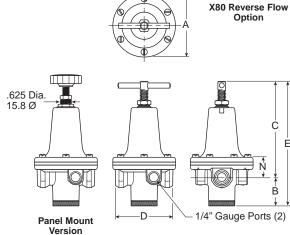




- Heavy Duty Tee Handle Adjustment
- Reverse Flow Version Available
- Panel Mount Version Available

 High Flow: 1/4" – 100 SCFM§ 3/8" – 110 SCFM§

1/2" - 150 SCFM§



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)
R119-04C					
3.56 (90)	1.56 (40)	5.34 (136)	3.25 (83)	6.90 (175)	1.45 (37)

inches (mm)

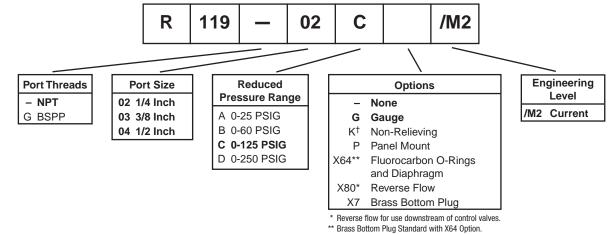
Port	NPT	BSPP			
Size	Relieving	Relieving			
Without Ga	Without Gauge 0-125 PSIG Reduced Pressure				
1/4"	R119-02C	R119G02C			
3/8"	R119-03C	R119G03C			
1/2"	R119-04C	R119G04C			
With Gauge 0-125 PSIG Reduced Pressure					
1/4"	R119-02CG/M2	_			
3/8"	R119-03CG/M2	_			
1/2"	R119-04CG/M2				

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



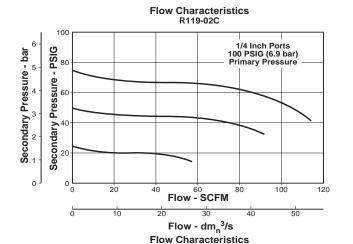
C76

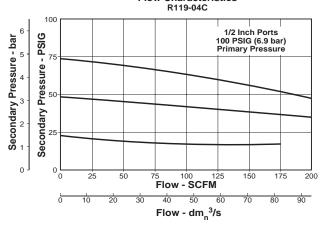
† Not available with 250 PSIG spring



(Revised 05-13-14)

Technical Information





Flow Characteristics R119-03C 3/8 Inch Ports 100 PSIG (6.9 bar) Primary Pressure 100 PSIG (6.9 bar) Primary Pressure Flow - SCFM 100 PSIG (6.9 bar) Primary Pressure Flow - SCFM Flow - Mn Flow - dm Flow

⚠ 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.

R119 Regulator Kits & Accessories

Gauges -	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)	K4520N14300
	1-3/4" Digital Round Face	
	160 psig (0 to 11.0 bar)	K4517N14160D
Mounting	Bracket Kit -	
	3"	SA15Y57
Panel Mo	unt Conversion Kit –	
	3"	4202
Repair Kit		
	·lieving Diaphragm, ssembly (1/4", 3/8"; All PSIG)	RK118V
	ng Diaphragm, ssembly (1/4", 3/8"; All PSIG)	RK119Y
	lieving Diaphragm, ssembly (1/2"; 25, 60, 125 PSIG)	RK118A
	lieving Diaphragm, ssembly (1/2"; 250 PSIG)	RK118A250
	ng Diaphragm, ssembly (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 Nur	mber suffix.

Specifications

C77

Gauge Ports (2)	1/4 Inch
Port Threads	1/4, 3/8, 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 -	
R119-02, 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



C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos

R119 Regulators - Hi-Flow

Filters

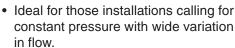
Coalescers

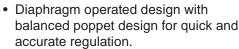
Regulators

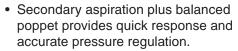
Accessories

Features

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





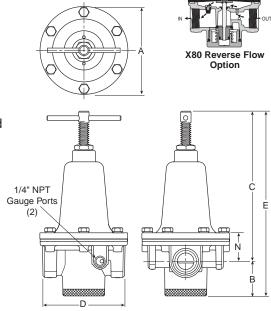


- · Heavy duty tee handle adjustment.
- Reverse flow version available.
- High Flow: 3/4" 300 SCFM§

1" - 400 SCFM§

1-1/4" & 1-1/2" - 500 SCFM§





R119-	06C, R1	19-08C F	Regulato	r Dimer	nsions
A	B	C	D	E	N
4.69	1.87	8.15	4.38	10.02	1.61
(119)	(47)	(207)	(111)	(255)	(41)
R119-10C, R119-12C Regulator Dimensions					
A	B	C	D	E	N
4.94	1.81	8.53	4.94	10.34	1.99

inches (mm)

Dowt Cine	NPT
Port Size	Relieving
Without Gaug	e 0-125 psig Reduced Pressure
3/4"	R119-06C/M2
1"	R119-08C/M2
1-1/4"	R119-10C/M2
1-1/2"	R119-12C/M2
With Gauge 0	-125 psig Reduced Pressure
3/4"	R119-06CG/M2
1"	R119-08CG/M2
1-1/4"	R119-10CG/M2
1-1/2"	R119-12CG/M2

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

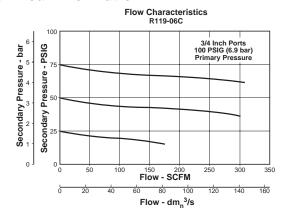
Product rupture can cause serious injury.

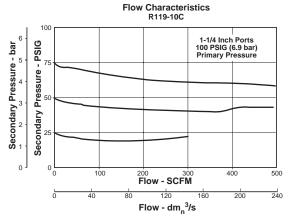
Do not connect regulator to bottled gas.

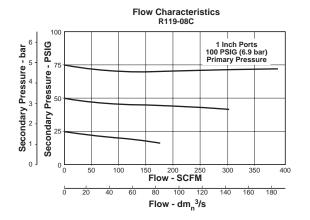
Do not exceed maximum primary pressure rating.

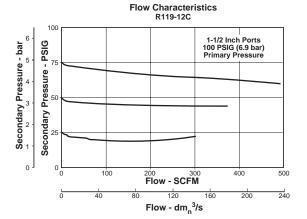
Ordering Information R 119 06 C G **/M2 Port Threads** Port Size Options Engineering Reduced **Pressure Range** Level NPT 06 3/4 Inch Blank None G BSPP 08 1 Inch C 0-125 psig G Gauge /M2 Current D 0-250 psig 10 1-1/4 Inch K Non-Relieving 12 1-1/2 Inch X64[‡] Fluorocarbon O-Rings and Diaphragm X80[†] Reverse Flow † Reverse flow for use downstream of ‡ Brass Bottom Plug Standard control valves. with X64 Option. **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.

R119 Regulator Kits & Accessories

Gauges – 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
1-3/4" Digital Round Face
160 psig (0 to 11.0 bar)K4517N14160D
Mounting Bracket Kit
Repair Kits –
Non-Relieving Diaphragm,
Valve Assembly (3/4", 1") RK118B
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

C79

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)
·	

Materials of Construction

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



Product Selection

Filters

Coalescers

/ Regulators

Lubricators Filter

Combos

09R Regulators - Hi-Flow

The second secon

Coalescers

Regulators

Filter / Regulators

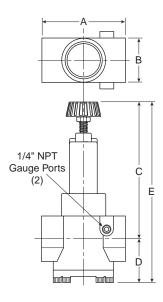
Lubricators

Combos

Accessories

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"	09R813BA

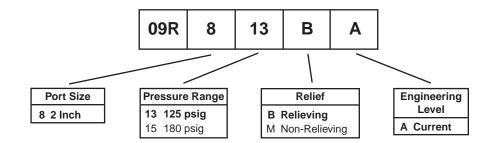
Standard part numbers shown bold. For other models refer to ordering information below.

§ 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)

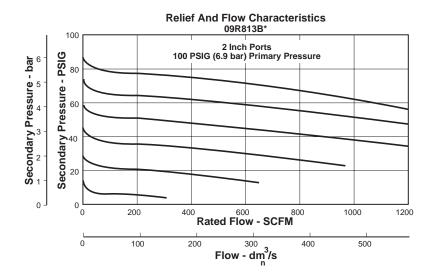
Ordering Information



BOLD ITEMS ARE MOST POPULAR.



C80



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 Ki	t	PS603P
	Il Face sig (0 to 11.0 bar) sig (0 to 20.0 bar)	
	Digital Round Face sig (0 to 11.0 bar)	K4517N14160D
Mounting Brack	et Kit	PS605P
	n-Relievinglieving	
	25 psig Range 30 psig Range	

Specifications

C81

Gauge Ports (2)(Can be used as additional Full Flow	
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) 0 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	



Coalescers

10R Pilot Controlled Regulator - Economy

Coalescers

Regulators

Filter/ Regulators

Lubricators

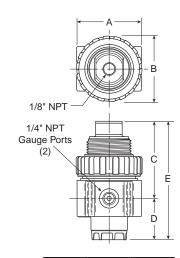
Combos

Accessories

Features

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

3/8" - 50 SCFM§



Port Size	NPT
Without Gaug	e
1/4"	10R115PB
3/8"	10R215PB
With 160 PSI	Gauge
1/4"	10R121PB
3/8"	10R221PB

Standard part numbers shown bold. For other models refer to

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)	

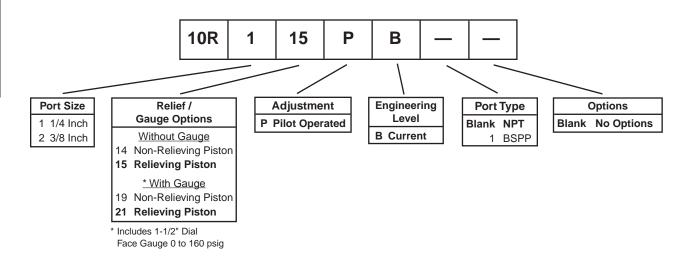
Inches (mm)

↑ WARNING

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

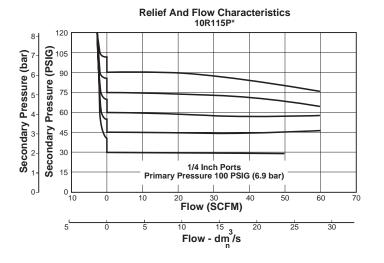
Ordering Information

ordering information below.

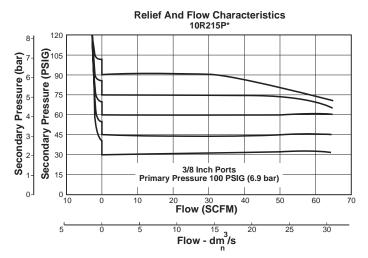


C82





(Revised 10-08-13)



10R Pilot Regulator Kits & Accessories

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

Product	election
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Coalescers

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Lubricators



11R Pilot Controlled Regulator - Compact

Coalescers

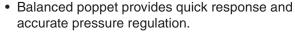
Regulators

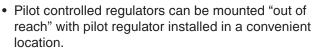
Filter/ Regulators

Lubricators

Accessories

Features





- · Solid control piston for extended life.
- Two full flow 1/4" gauge ports can be used as additional outlets.
- Pilot port 1/4 Inch.

High Flow: 1/4" – 85 SCFM[§]

3/8" - 95 SCFM
1/2" - 95 SCFM

1/4" NPT		
1/4" NPT Gauge Ports (2)	↑ C → ↑ D →	

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

Inches (mm)

Port Size	NPT
Without Gaug	e
1/4"	11R115PB
3/8"	11R215PB
1/2"	11R315PB
With 160 PSI	Gauge
1/4"	11R121PB
3/8"	11R221PB
1/2"	11R321PB

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

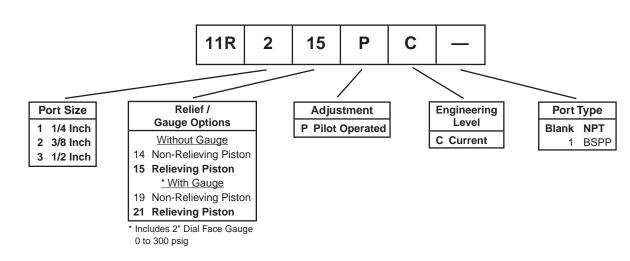
NOTE: 2.00 Dia. (50,8mm) hole required for panel mounting.

§ 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

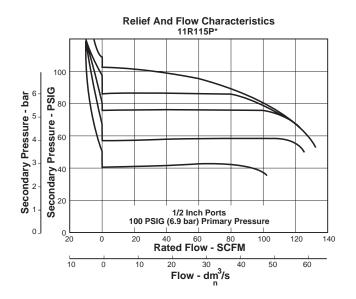


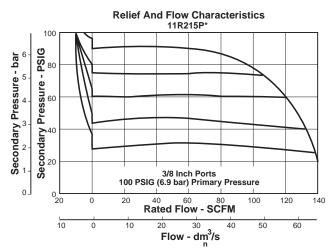
C84



(Revised 05-13-14)

Technical Information





Body Service Kits – Seat Insert Kit	PS713P
Gauges – 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
1-3/4" Digital Round Face	
160 psig (0 to 11.0 bar)	.K4517N14160D
Mounting Bracket Kit (Includes Panel Mount Nut).	PS707P
Panel Mount Nut - Plastic	P04082
Metal	P04079B
Pilot Conversion Kit – Relieving	PS745P
Service Kits – Non-Relieving	

Specifications

C85

Gauge Ports (2)(Can be used as additional Full Flo	
Port Threads	1/4, 3/8, 1/2 Inch
Pressure & Temperature Rating –.	0 to 250 psig (0 to 17.2 bar) 32°F to 175°F (0°C to 80°C)
MATERIAL CONTRACTOR OF THE PROPERTY OF THE PRO	4015 (0.501)

Materials of Construction

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



C

Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

12R Pilot Controlled Regulator – Standard



Features

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

1/4" NPT	В	
1/4" NPT Gauge Ports (2)	C	

Port Size	NPT
Without Gaug	e
1/2"	12R315PB
3/4"	12R415PB
With 160 PSI	Gauge
1/2"	12R321PB
3/4"	12R421PB

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

Inches (mm)

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.

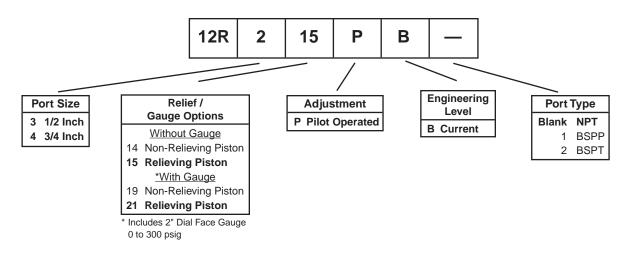
⚠ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Ordering Information



C86

BOLD ITEMS ARE MOST POPULAR.



Product election

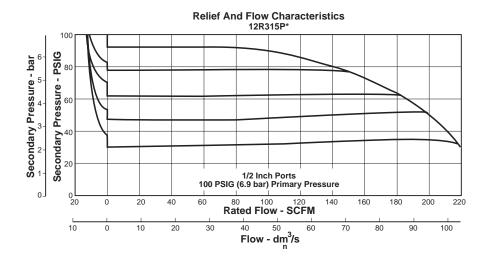
Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators



(Revised 05-13-14)

Body Service Kits – Seat Insert KitPS813P			
Gauges – 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			
1-3/4" Digital Round Face			
160 psig (0 to 11.0 bar)K4517N14160D			
Mounting Bracket Kit (Includes Panel Mount Nut)PS807P			
Panel Mount Nut - PlasticP04082			
Metal P04079B			
Pilot Conversion Kit – RelievingPS745P			
Service Kits – Non-Relieving PS847P Relieving PS849P			

Specifications

Gauge Ports (2)(Can be used as additional Full Flow	
Port Threads	,
Pressure & Temperature Rating	0 to 250 psig (0 to 17.2 bar) 32°F to 175°F (0°C to 80°C)
Weight	,

Materials of Construction

Zinc
Plastic
Nitrile
Steel



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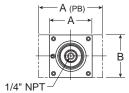


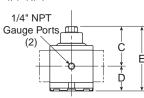
P3NR Pilot Controlled Regulator - Hi-Flow



Features

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies.
- Self relieving feature plus balanced poppet provides quick response and accurate pressure regulation.
- · Solid control piston for extended life.
- High Flow: 3/4" 300 SCFM§
 1" 300 SCFM§
 1-1/2" 350 SCFM§





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

	Pilot Reg	-
A 3.62 (92)	A (PB) 5.91 (150)	B 3.62 (92)
C 3.38 (86)	D 2.08 (53)	E 5.46 (139)

Inches (mm)

Standard part numbers shown 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.

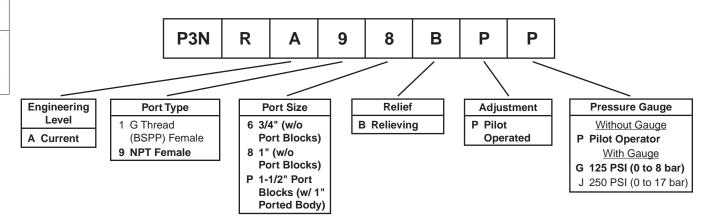
MARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Ordering Information



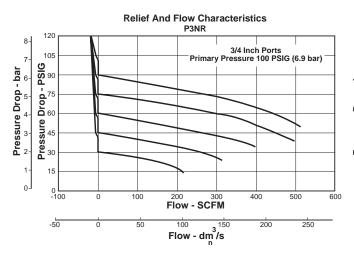
C88

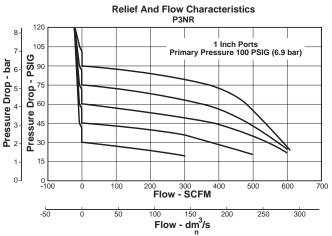
Note: BSPP ported units supplied using NPT ported bodies and BSPP port block kits.



Technical Specifications - P3NR

Technical Information





Relief And Flow Characteristics P3NR 120 1-1/2 Inch Ports Primary Pressure 100 PSIG (6.9 bar) 7-**Bressure Drop - PSIG**75 60 45 30 Pressure Drop - bar 0 L -100 100 200 300 Flow - SCFM 500 600 700 -50 50 200 250 300 Flow - dm³/s

C89

P3NR Pilot Regulator Kits & Accessories

Gauges - 2" Dial Face	
60 psig (0 to 4.1 ba	r) K4520N14060
160 psig (0 to 11.0	bar) K4520N14160
300 psig (0 to 20.0	bar) K4520N14300
1-3/4" Digital Rour	nd Face
160 psig (0 70 11.0	bar)K4517N14160D
Mounting Bracket Kit*	P3NKA00MW
Service Kit - Relieving	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

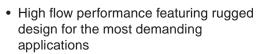
R119 Series

R119 – Pilot Operated Regulators

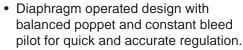


Features

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







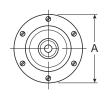
 Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation

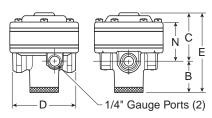
· Reverse flow available

High flow: 1/4" - 100 SCFM§

3/8" - 110 SCFM§

1/2" - 150 SCFM§





F	R119 Re	gulato	r Dime	nsions	
Α	В	С	D	E	N
R119-	02J, R1	19-03J			
3.00 (76)	1.38 (35)	1.98 (50)	2.74 (70)	3.55 (90)	1.57 (40)
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/M2	R119G02J
3/8"	R119-03J/M2	R119G03J
1/2"	R119-04J/M2	R119G04J

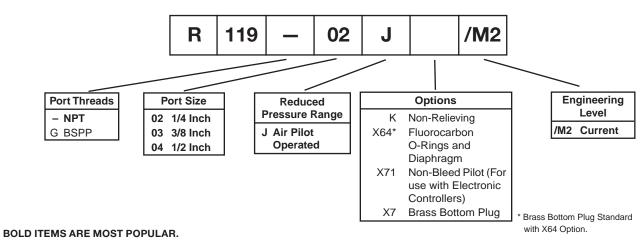
Standard part numbers shown bold. For other models refer to ordering information below.

§ 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.

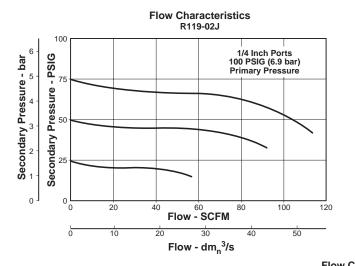
Ordering Information

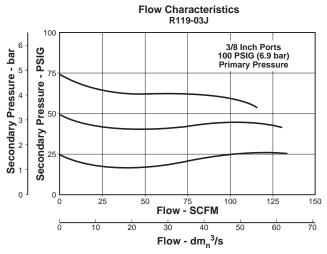




Technical Specifications - R119

Technical Information





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

C91

R119 Regulator Kits & Accessories

Gauges –	2" Dial Face 60 psig (0 to 4.1 bar) 160 psig (0 to 11.0 bar) 300 psig (0 to 20.0 bar)	K4520N14160
	1-3/4" Digital Round Face 160 psig (0 to 11.0 bar)	K4517N14160D
	s – lieving Diaphragm, ssembly (1/2")	RK118X20A
	lieving Diaphragm, ssembly (1/4", 3/8")	RK118X20Y
	g Diaphragm, ssembly (1/2")	RK119X20A
	g Diaphragm, ssembly (1/4", 3/8")	RK119X20Y
For Fluoro	carbon 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 1/8" 1/2" Threads 1/4"
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 2.6 lb. (1.18 kg) / Unit 21 lb. (9.53 kg) / 8-Unit Master Pack

Materials of Construction

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



Product Selection

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Lubricators

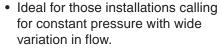
R119 Pilot Operated Regulators - Hi-Flow

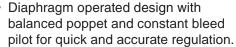


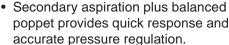
Features

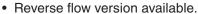
· Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible.





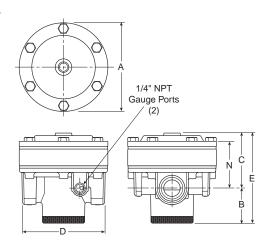






 High Flow: 3/4" & 1" – 300 SCFM§ 1-1/4" & 1-1/2" - 500 SCFM§





	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)

Port Size	NPT	
	Relieving	
Without Gauge 0-125 psig Reduced Pressure		
3/4"	R119-06J/M2	
1"	R119-08J/M2	
1-1/4"	R119-10J/M2	
1-1/2"	R119-12J/M2	

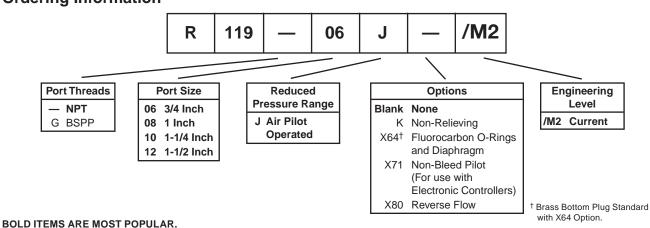
Standard part numbers shown bold. For other models refer to ordering information below.

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

⚠ WARNING

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

Ordering Information





Coalescers

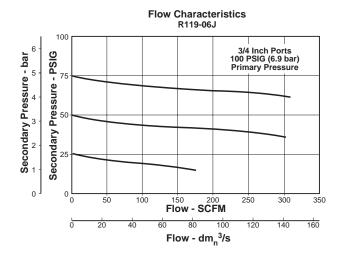
Regulators

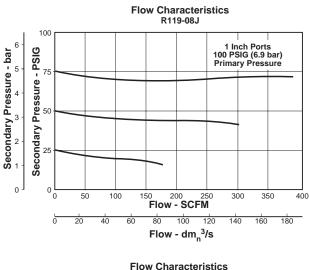
Filter / Regulators

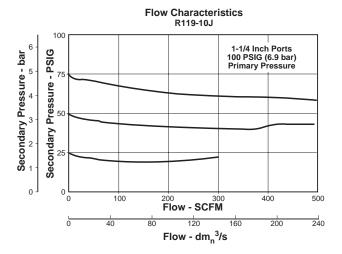
Lubricators

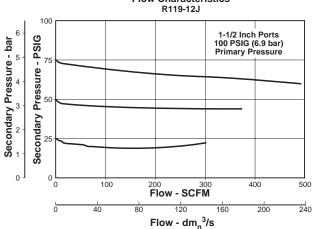
(Revised 05-13-14)

Technical Information









R119 Regulator Kits & Accessories

3	60 psig (0 to 4.1 bar)	K4520N14160
	1-3/4" Digital Round Face 160 psig (0 to 11.0 bar)	K4517N14160D
	t s – lieving Diaphragm, ssembly (3/4", 1")	RK118X20B
	lieving Diaphragm, ssembly (1-1/4", 1-1/2")	RK118X20D
	ig Diaphragm, ssembly (3/4", 1")	RK119X20B
	ng Diaphragm, ssembly (1-1/4", 1-1/2")	RK119X20D
For Fluoro	carbon Repair Kits, add X64 to I	Kit Number suffix.

Specifications

-
Gauge Ports (2) 1/4 Inch
Port 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: Approximately 0.17 SCFM (10 SCFH)
Temperature Rating40°F to 125°F (4.4°C to 52°C)
Weight – R119-06J, R119-08J 5.2 lb. (2.36 kg) / Unit
42 lb. (19.05 kg) / 8-Unit Master Pack

Materials of Construction

C93

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

R119-10J, R119-12J 5.6 lb. (2.54 kg) / Unit



Gauges - 2" Dial Face

46 lb. (20.87 kg) / 8-Unit Master Pack

Product	Selection
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Coalescers

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Filter/	Regulators

s Lubricators

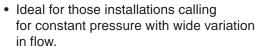
R119 Pilot Operated Regulators - Hi-Flow



Features

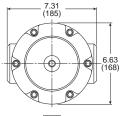
 Adapted for control by a remote or distant small pilot regulator. Ideal for maximum capacity requirements in applications where units are not readily accessible.

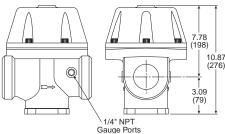




 Piston operated design with balanced poppet and dual constant bleed for quick and accurate regulation.

• High Flow: 2" & 2-1/2" - 1800 SCFM§





Port Size	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 ordering information below.

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

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

inches (mm)

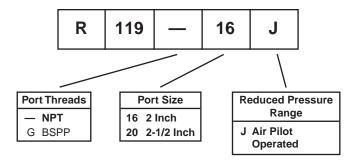
↑ WARNING

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

Ordering Information



C94

NOTE: Non-Relieving Not Available.

-- Dackoc

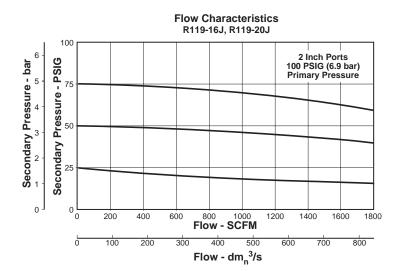
Filters

Coalescers

Regulators

Filter/ Regulators

Lubricat



(Revised 05-13-14)

R119 Regulator Kits & Accessories

Gauges -	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
	1-3/4" Digital Round Face 160 psig (0 to 11.0 bar)	K4517N14160D
Repair Kit Piston	s – 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 -

Materials of Construction

Body, Piston	Aluminum
Seals	Buna N
Innervalve	Brass & Stainless



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Regulators

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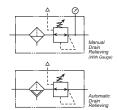


15 lb. (6.80 kg) / 1-Unit Master Pack

Filter / Regulators

Filter / Regulators

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



C

Product Selection

Filters

Coalescers

Regulators Filter / Regulators

S Lubricators

Compos

Accessories

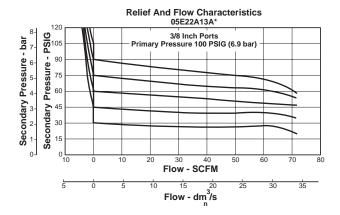
Integral Filter / Regulators are an excellent choice where accurate pressure regulation and high moisture removal efficiency are required in a space saving package.

- 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:

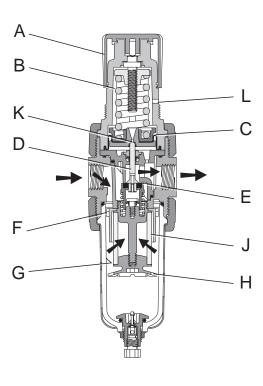
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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



C

Product Selection

Filters

Coalescers

Regulators

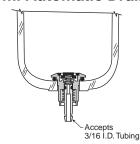
Filter / Regulators

Lubricators

Combos

Accessories

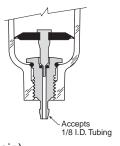
Semi Automatic Drain



(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.

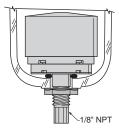
Automatic Pulse Drain



(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.

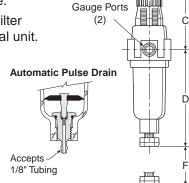
A manual override can be pushed in the bottom of the drain to unseat the float if particulates create a block.





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§



1/8" NPT

Accept 1/8" Tu

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

Distance Required To Remove All Bowls

Regardless Of Drain Option

Inches (mm) † With Auto Drain

Port	NPT		
Size	Twist Drain	Automatic Pulse Drain	
Poly Bowl [‡]			
1/8"	14E01B13FC	14E05B13FC	
1/4"	14E11B13FC	14E15B13FC	
Metal Bowl			
1/8"	14E03B13FC	14E07B13FC	
1/4"	14E13B13FC	14E17B13FC	

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



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

14E

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Relief Relieving G Non-Relieving H* Low Temp Relieving Twist Drain Only.

В

13

Port Type Blank NPT BSPP BSPT

C

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

Pressure Range Without With Gauge* <u>Gauge</u> 10 30 psig 15 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

Engineering Level C Current

Options 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.

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

Available Preset / Pressure Limited Range, 10 to 90 psig in 5 psig increments. For higher pressures, contact factory.

(Example: 065 = 65 psig



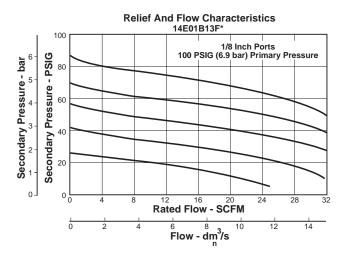
Filters

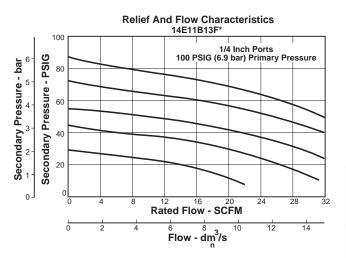
Coalescers

Regulators Filter / Regulators

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

14L Filler / Negulator Kits & Accessories
Bonnet Tamperproof KitP01265
Bowl Kits –
Poly Bowl – Automatic DrainPS408BP
Twist DrainPS404P
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.

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

⚠ WARNING

Pressure & Temperature Ratings -

Polycarbonate Bowl

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

C99

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

Secondary Pressure Ranges -

Standard Pressure	
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)
eight	0.4 lb. (0.18 kg)

Materials of Construction

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



B34 Miniature Filter / Regulator

Features

- Excellent Water Removal Efficiency
- 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 SC	
Port	NPT	
Size	Manual Twist Drain	
Poly Bowl [‡]		
1/8"	B344-01AGC	
1/4"	B344-02AGC	
Metal Bowl w	ithout Sight Gauge	
1/8"	B344-01DGC	
1/4"	B344-02DGC	

Bold Items are Most Popular.

Coalescers

Regulators

Filter / Regulators

Combos

Accessories

For other models refer to ordering information below.

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

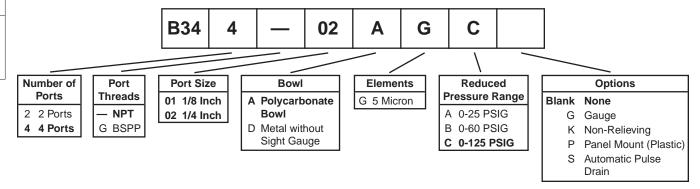
- ‡ For polycarbonate bowl see Caution on page 2.
- § SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 25% pressure drop.

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

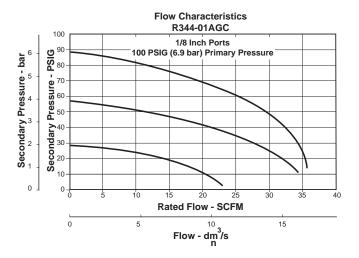
B34 Filter / Regulator Dimensions		
A 1.54 (39.2)	C 2.68 (68.1)	D 3.63 (92.1)
E 6.31 (160.2)	F 1.65 (41.9)	

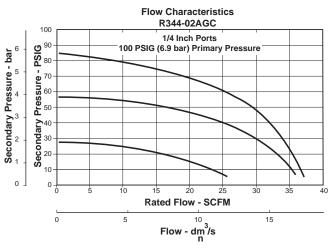
Inches (mm) † With Auto Drain

Ordering Information









MARNING

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-16-005-000
Bowl Kits –
Zinc (D)BK505Y
Zinc with Automatic Pulse Drain (D)BK505SY
Polycarbonate (A)BK504Y
Polycarbonate with Automatic Pulse Drain (A)BK504SY
Drain Kits –
Automatic Pulse Drain
(Maximum Pressure = 175 PSIG)RK504SY
Filter Element Kits –
5 Micron (All)FRP-96-729
Gauges –
1-1/2" Dial Size, 1/8" Back Connection
0 to 60 PSIG (0 to 400 kPa)K4515N18060
1-1/2" Dial Size, 1/8" Back Connection
0 to 160 PSIG (0 to 1100 kPa)K4515N18160
Mounting Bracket Kit (Includes Plastic Panel Nut) SA161X57
Panel Mount Nut –
PlasticR05X51-P
AluminumR05X51-A
Repair Kits –
Non-Relieving Diaphragm, Valve Assembly (All) GRP-96-726
Relieving Diaphragm, Valve Assembly (All) GRP-96-725
Springs –0-25 GRP-95-111
0-60GRP-96-718
0-125 GRP-96-717

Specifications

op comount on	
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)
2 to 125 PSIG	(0.15 to 8.5 bar) (C)
Temperature Rating	40°F to 125°F (4.4°C to 52°C)
Weight -	
Zinc Bowl (D)	0.6 lb. (0.27 kg) / Unit
	12 lb. (5.44 kg) / 24-Unit Master Pack
Polycarbonate Bowl (A)	
	6 lb. (2.72 kg) / 24-Unit Master Pack

Materials of Construction

C101

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,	DrainBrass



C

Product Selection

Filters

Coalescers

Regulators

Filter / Remilators

Combos Lubricators

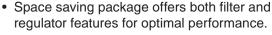
05E Filter / Regulator – Economy











· Excellent water removal efficiency.

(Revised 06-17-14)

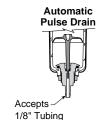
· Rolling diaphragm for extended life.

· Removable non-rising knob for tamper resistance.

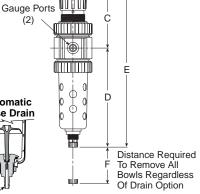
• Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure.

• 40 micron filter element standard.

• High Flow: 1/4" - 30 SCFM§ 3/8" - 40 SCFM§



1/4" NPT



Port	NPT		
Size	Twist Drain	Automatic Pulse Drain	
Poly Bowl [‡] / Metal Guard			
1/4"	05E12A13A*	05E1PA13A*	
3/8" 05E22A13A*		05E2PA13A*	
'			

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.

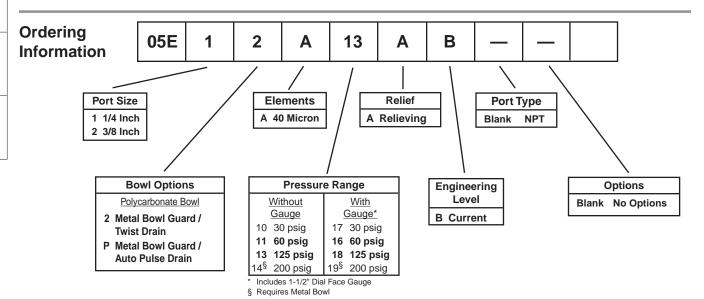
⚠ WARNING

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)	

Inches (mm)

† With Twist Drain or Auto Pulse Drain



C102

BOLD ITEMS ARE MOST POPULAR.



Coalescers

Filters

Regulators

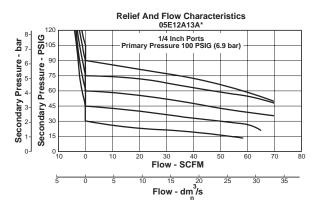
Filter / Regulators

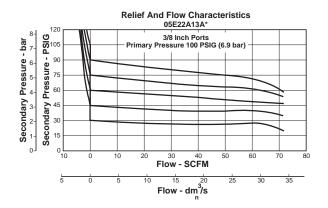
Lubricators

<u>-</u>

Technical Specifications – 05E

Technical Information





CAUTION:

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

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

05E Filter / Regulator Kits & Accessories

Bowl Guard KitPS905P
Poly Bowl – Automatic Pulse Drain
Drain Kit –
Automatic Pulse DrainPS998P
Twist Drain PS512P
Filter Element Kits – 40 MicronPS901P
5 Micron PS902P
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
Bonnet Assembly Kit PS915P

Specifications

Bowl Capacity	2.0 Ounces
Gauge Port (2)	1/4 Inch
Sump Capacity	0.9 Ounce
Port Threads	1/4, 3/8 Inch
Pressure & Temperature Rating –	
Polycarbonate Bowl – 0 to 150	nsig (0 to 10 3 har)

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)

Materials of Construction

Adjusting Stem

Adjusting Otelli	
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

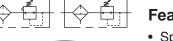
Combos

Steel

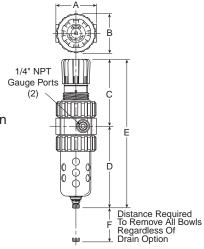


06E Filter / Regulator - Compact

Features



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



Port	NPT	
Size	Twist Drain	Automatic Float Drain
Poly Bowl [‡] / N	/letal Guard	
1/4"	06E12A13AC	06E16A13AC
3/8"	06E22A13AC	06E26A13AC
1/2"	06E32A13AC	06E36A13AC
Metal Bowl / Sight Gauge		
1/4"	06E14A13AC	06E18A13AC
3/8"	06E24A13AC	06E28A13AC
1/2"	06E34A13AC	06E38A13AC
Standard part numbers shown hold. For other models refer to ordering		

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

06E Filter / Regulator **Dimensions**

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

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

Auto Float Drain

Auto Float Drain

8 Sight Gauge /

- 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".

⚠ WARNING

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

Ordering 06E 1 2 13 C Α Α Information Port Size **Elements** Relief **Port Type** Preset 1 1/4 Inch A 40 Micron Blank None A Relieving Blank NPT 2 3/8 Inch Preset B 5 Micron L Non-Relieving XXX^* BSPP 3 1/2 Inch Pressure 1/4 & 3/8 inch meet ISO 1179-1 Standard. Available Preset Range, 10 to 90 psig in 5 psig increments **Bowl Options Pressure Range** Engineering **Options** For higher pressures, contact factory. Level Polycarbonate Bowl Metal Bowl Without With **Blank** No Options (Example: 2 Metal Bowl Guard / 3 Twist Drain Gauge Gauge Preset C Current 065 = 65 psig16 60 psig Non-Adjustable Twist Drain 4 Sight Gauge / 11 60 psig 6 Metal Bowl Guard / **Twist Drain** Preset Adjustable 18 125 psig

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

† Inlet Pressure is 100 psig. For

other pressures, contact



Auto Float Drain

250 psig

21§

13 125 psig

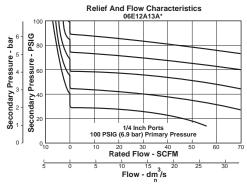
15§ 250 psig

§ If 250 psig spring range is

used, use metal bowl.

Technical Specifications – 06E

Technical Information



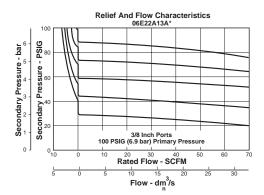
CAUTION:

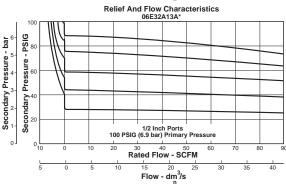
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

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

06E Filter / Regulator Kits & Accessories

00E Filler / Regulator Kits & Accessories			
Bonnet Assem	bly Kit	PS715P	
Bowl Guard Kit	t	PS705P	
Bowl Kits -			
Poly Bowl -	Automatic Float Drain	PS722P	
-	Twist Drain	PS732P	
Metal Bowl -	Automatic Float Drain	PS726P	
	Semi-Auto Drain	PS794P	
	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		
Filter Element	Kits – 40 Micron		
	5 Micron		
	Adsorber	PS731P	
	Dial Face		
	psig (0 to 4.1 bar)		
) psig (0 to 11.0 bar)		
300	psig (0 to 20.0 bar)	K4520N14300	
	/4" Digital Round Face		
160) psig (0 to 11.0 bar)	K4517N14160D	
Mounting Brac	ket Kit (Includes Panel Mount Nut)	PS707P	
	ut		
Service Kits -	Non-Relieving (Includes Poppet)	PS711P	
	Relieving (Includes Poppet)		
Seat Insert Kit	3()		
	0 psig Range		
. •	0 psig Range		
	25 psig Range		
	50 psig Range		
	it (Key Lock)		
Specifica	ntions		
Bowl Capacity		4.4 Ounces	
	2)		
	d as Additional Full Flow 1/4" Outlet Ports		
•		•	





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 -Low Pressure......1 to 60 psig (0 to 4.1 bar) High Pressure...... 5 to 250 psig (0.4 to 17.2 bar)

C105

Materia	als of Construction	
Adjusting S	Stem	Steel
Body		Zinc
Bonnet, In	ernal Parts	Plastic
Bowls Ava	ilable - Transparent	Polycarbonate
	Metal (With or Without Sight Gauge)	Zinc
Bowl Guar	d	Steel
Collar		Plastic
Diaphragm	l	Nitrile
Drains - M	anual Twist Drain Standard	
	Body & Nut	Plastic
M	anual Push 'N' Drain Optional	
	Body	Nitrile
	Stem	Brass
A	utomatic Float Drain Optional	
	(Interchangeable for Field Conversions)	
	Operating Range 10 to 250 ps	
	Housing, Float	
	Seals	
l/ n a la	Springs, Push Rod	
	anta 40 Missay (Ctandard)	
Fliter Elem	ents – 40 Micron (Standard)	
	5 Micron (Optional)	
Caala	Adsorber (Optional)A	
	je	,
Springs –	Poppet	
	Control	Steel



Filters

Coalescers

Regulators

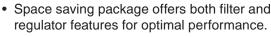
Lubricators

Combos

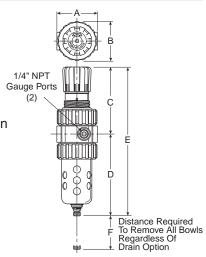
07E Filter / Regulator – Standard



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		
Twist Drain	Automatic Float Drain	
Poly Bowl [‡] / Metal Guard		
07E32A13AC	07E36A13AC	
07E42A13AC	07E46A13AC	
Metal Bowl / Sight Gauge		
07E34A13AC	07E38A13AC	
07E44A13AC	07E48A13AC	
	Twist Drain letal Guard 07E32A13AC 07E42A13AC sight Gauge 07E34A13AC	

Standard part numbers shown bold.	For other models refer to orderi	ng
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.

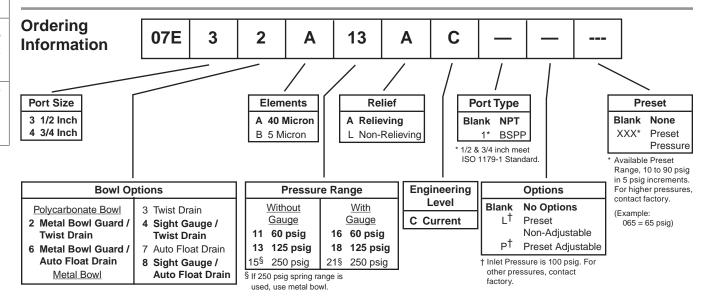
NOTE: 2.00 Dia. (50.8 mm) hole required for panel mounting. Max. panel thickness 1/4".

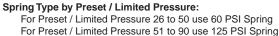
07E Filter / Regulator Dimensions			
A	B	C	D
3.24	3.25	4.79	6.97
(82)	(83)	(122)	(177)
D [†]	E	E [†] 11.79 (299)	F
7.00	11.76		2.75
(178)	(299)		(70)

Inches (mm) † With Auto Float Drain

⚠ WARNING

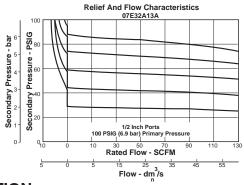
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.







Technical Specifications – 07E



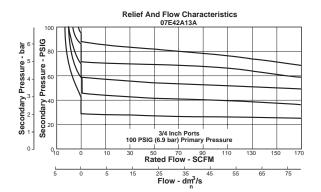
CAUTION:

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.

07E Filter / Regulator Kits & Accessories

	/ Regulator Rits & Acot		
Bonnet Assem	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		
	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	Kits - 40 Micron	PS801P	
	5 Micron	PS802P	
	Adsorber	PS831P	
	Dial Face		
	psig (0 to 4.1 bar)		
) psig (0 to 11.0 bar)		
300) psig (0 to 20.0 bar)	K4520N14300	
1-3	/4" Digital Round Face		
160	psig (0 to 11.0 bar)	K4517N14160D	
Mounting Brac	ket Kit (Includes Panel Mount Nut)	PS807P	
Panel Mount N	ut	P04082	
Service Kits -	Non-Relieving (Includes Poppet)	PS811P	
	Relieving (Includes Poppet)		
Seat Insert Kit		PS813P	
Springs - 1-3	0 psig Range	P01698	
	0 psig Range		
2- 1:	25 psig Range	P04063	
5- 2	50 psig Range	P04064	
Tamperproof K	it (Key Lock)	PS737P	
Specifica	, ,		
-		7.2 Oup.sss	
	2)		
(Can be used as Additional Full Flow 1/4" Outlet Ports)			



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 – 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

Materials of Construction

C107

Adjusting Stem	Steel
Body	Zinc
Bonnet, Internal Parts	Plastic
Bowls Available - Transparent	Polycarbonate
Metal (With or Without	Sight Gauge) Zinc
Bowl Guard	Steel
Collar	Plastic or Metal
Diaphragm	Nitrile
Drains - Manual Twist Drain Standard	
Body & Nut	Plastic
Manual Push 'N' Drain Optional	
•	Nitrile
	Brass
Automatic Float Drain Optional	
(Interchangeable for Field Con	
	10 to 250 psig (.7 to 17.2 bar)
0,	Nitrile
	Stainless Steel
Knob	
Filter Elements – 40 Micron (Standard)	
,	Plastic
	Activated Charcoal
Seals	
Sight Gauge	Polyamide
Springs - Poppet	-
	Steel



C

Product Selection

Filters

rs Coalescers

P3NE Series

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§

-	A (PB)	↑ B →
1/4" NPT Gauge Port (2)	s	C
		F F
		D
		1 1
	Τ	Bowl
Gauge Port		E E D D T Bowl F Removal

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.

Coalescers

Regulators

Filter/ Regulators

Accessories

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

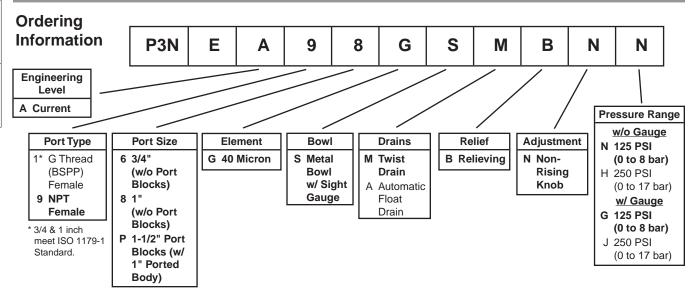
P3NE Filter / Regulator Dimensions			
A 3.62 (92)	A (PB) 5.91 (150)	B 3.62 (92)	C 6.38 (162)
p † 9.57 (243)	E [†] 15.95 (405)	F 4.92 (125)	

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.



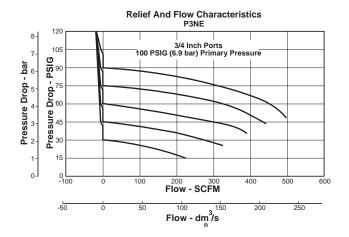
BOLD ITEMS ARE MOST POPULAR.

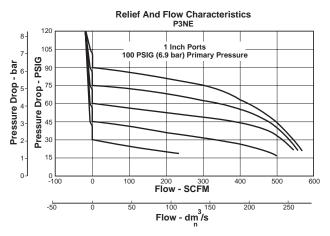
Note: BSPP ported units supplied using NPT ported bodies and BSPP port block kits.



Technical Specifications – P3NE

Technical Information

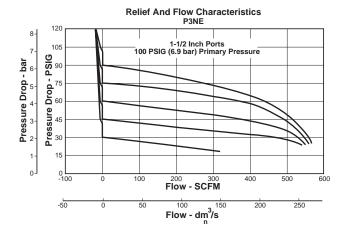




CAUTION:

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

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 Ran	ges 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

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

C109



C

Product Selection

Filters

Coalescers

/ Regulators

S Filte

s Lubricators

Combos

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

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

12E Filter / Regulator - Coalescing



Coalescers

Regulators

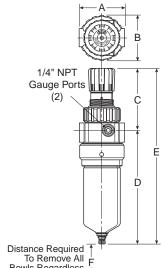


Features

- 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	1	١
To Remove All	Ė	
Bowls Regardless	Τ.	
Of Drain Option	<u>.</u>	ш

Port Size	NPT
Twist Drain	
3/8"	12E23E13AA
1/2"	12E33E13AA
3/4"	12E43E13AA
Automatic Flo	at Drain
3/8"	12E27E13AA
1/2"	12E37E13AA
3/4"	12E47E13AA

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

Inches (mm)

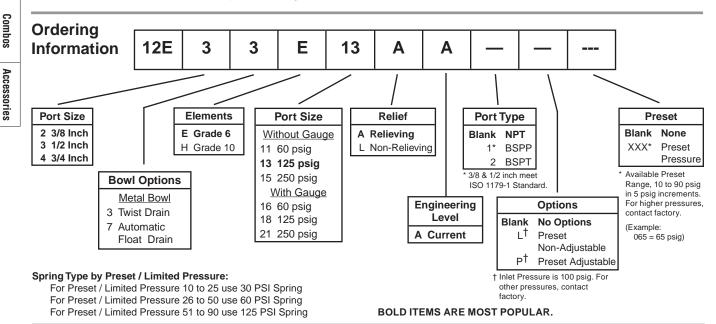
† With Twist Drain or Auto Float Drain

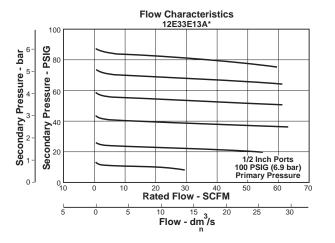
Standard part numbers shown bold. For other models refer to ordering information below.

§ 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.

⚠ 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.

32°F to 175°F (0°C to 80°C)

C111

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

12E Filter	/ Regulator Kits & Accessories	
Bonnet Assen	nbly Kit PS715P	
Bowl Kits -		
Metal Bowl -	- Automatic Float DrainPS826P	
	Twist DrainPS834P	
	Push 'N' DrainPS825P	
Control Knob	P04069B	
Drain Kits -	Automatic Float DrainPS506P	
	Twist Drain	
	Push 'N' DrainPS513P	
Filter Element	Kits – Grade 6	
Gauges - 2" [
60 p	osig (0 to 4.1 bar)K4520N14060	
	psig (0 to 11.0 bar)K4520N14160	
300	psig (0 to 20.0 bar)K4520N14300	
	/4" Digital Round Face	
	psig (0 to 11.0 bar) K4517N14160D	
Mounting Brad	cket Kit (Includes Panel Mount Nut)PS807P	
Service Kit – F	Relieving (Includes Poppet)PS886P	
Springs – 1- 3	0 psig RangeP01698	
	0 psig RangeP04062	
	25 psig RangeP04063	
	50 psig RangeP04064	
Tamperproof I	Kit (Key Lock)PS737P	
Specifications		
Bowl Capacity	/7.2 Ounces	
	2)	
(Can be used as Additional Full Flow 1/4" Outlet Ports)		
Port Threads		
Pressure & Temperature Ratings –		
	Metal Bowl - 0 to 250 psig (0 to 17.2 bar)	

Secondary	Pressure	Ranges -	-
Standard	Pressure.		

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
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 & NutPlastic
Manual Push 'N' Drain Optional
BodyNitrile
StemBrass
Automatic Float Drain Optional (Interchangeable for Field Conversions) Operating Range
Springs, Push RodStainless Steel
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)
SealsNitrile
Sight Gauge Polyamide

Springs – Poppet Stainless



Coalescers

Regulators

Lubricators

Combos



Micro-Mist Lubricators

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

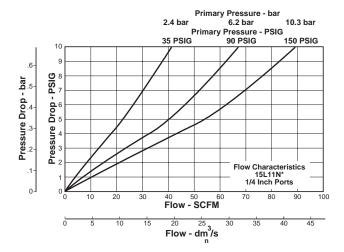
Micro-Mist Air Lubricators are designed to provide optimum and uniform lubrication with fine micro-mist particles of 2 micron or smaller, to pneumatic components even through complex piping arrangements.

- 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.)

C112



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.

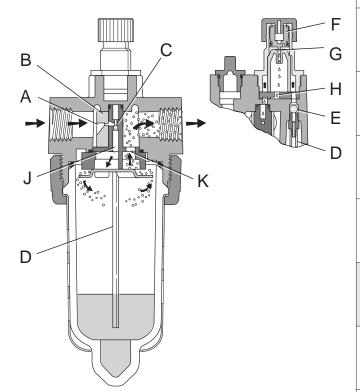
However, a proportion of the inlet air passes through the venturi, assuring that oil delivery increases linearly with increased air flow rate. This proportioning method is advantageous at low inlet flows because the venturi design remains efficient.

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).



Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos



Economy 15L Series

15L Micro-Mist Lubricators - Economy

Coalescers

Regulators

Filter/ Regulators

Combos

Accessories

Features

· Proportional oil delivery over a wide range of air flows.

(Revised 06-17-14)

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

Distance Required	d	
To Remove Pressi	ure	
Fill Adapter	← A →	
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	N M	
	Ψ	<u>↓</u>
	- 1	Distance Required Ta Barraya All
) II	F To Remove All
	Ψ	Bowls Regardless Of Drain Option
	1	Or Drain Option

		oricator nsions	
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)		

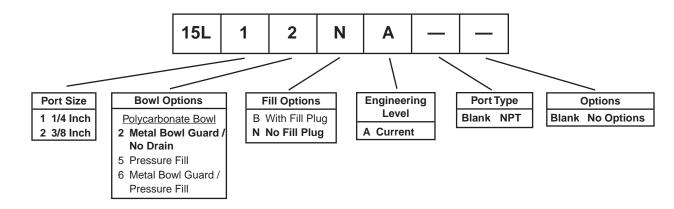
Inches (mm) † With Twist Drain.

Port	NI	PT
Size	Twist Drain	No Drain
Poly Bowl ‡ / Meta	al Guard	
1/4"	_	15L12N*
3/8"	_	15L22N*

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

Ordering Information

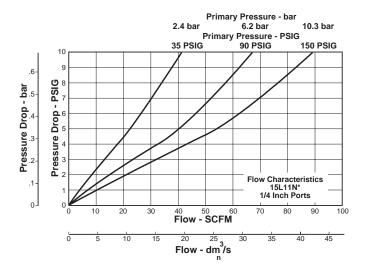


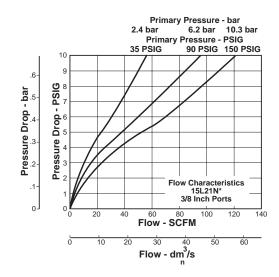
C114



(Revised 05-13-14)

Technical Information





15L Micro-Mist Lubricator Kits & Accessories

Adjustment Knob	P04121
Bowl Guard Kit	PS905P
Bowl Kits –	
Poly Bowl – No Drain	PS946P
Drain Kit – Twist Drain	PS512P
Mounting Bracket Kit	PS943P
Oil - 1 Gal	F442002
12 Quart Case	F442003
4 Gallon Case	F442005
Service Kit	PS948P
Sight Dome Kit	PS740P
Sight Gauge Kit	PS914P

Specifications

Bowl Capacity	2.0 Ounces
Minimum Flow for Lubrication	2 SCFM at 100 psig
Port Threads	1/4, 3/8 Inch

Pressure & Temperature Ratings -

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

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

(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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Coalescers

Regulators

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Lubricators

Combos





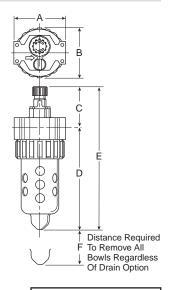
16L Micro-Mist Lubricators – Compact

Features

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

3/8" - 60 SCFM §

1/2" - 90 SCFM §



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)	

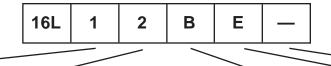
Inches (mm) †With Twist Drain.

Port	NPT	
Size	Twist Drain	No Drain
Poly Bowl ‡ / Metal Guard		
1/4"	_	16L12BE
3/8"	_	16L22BE
1/2"	_	16L32BE
Metal Bowl / Sight Gauge		
1/4"	16L14BE	
3/8"	16L24BE	1
1/2"	16L34BE	_

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

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

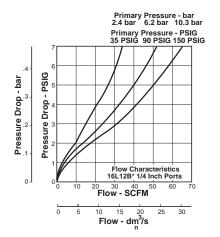
- **B** With Fill Plug C With Fill Plug/Nylon
- Sight Dome
- F With Body Pressure Fill
- G With Body Pressure Fill / Nylon Sight Dome

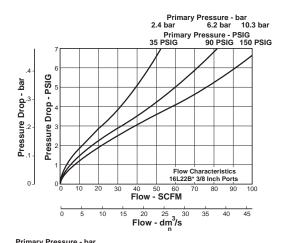
Engineering Level **E** Current

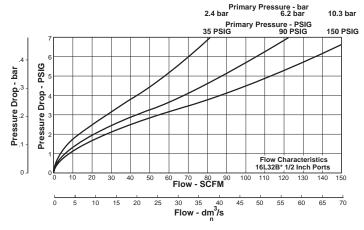
Port Type Blank NPT 1* BSPP

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









16L Micro-Mist Lubricator Kits & Accessories

Adjustment KnobP04121
Bowl Guard KitPS705P
Bowl Kits –
Poly Bowl – No Drain
Metal Bowl – Sight Gauge / Twist Drain
Drain Kit – Twist DrainPS512P
Fill Cap KitPS742P
Lubricator Service KitPS748P
Mounting Bracket KitPS743P
Oil – 1 Gal. F442002 12 Quart Case F442003 4 Gallon Case F442005 Pressure Fill Adapter Kit PS716P
Pressure Fill ButtonP11912
Remote Auto-Fill Device PS505CP
Sight Dome / Fill Cap KitPS739P
Sight Dome KitPS740P
Nylon Sight Dome KitPS740N

ı	Port Threads
I	Pressure & Temperature Rating –
ı	Polycarbonate Bowl – 0 to 150 psig (0 to 10.3 bar)
ı	32°F to 125°F (0°C to 52°C)
ı	Metal Bowl – 0 to 250 psig (0 to 17.2 bar)
ı	32°F to 175°F (0°C to 80°C)
I	Suggested LubricantF442 Oil
ı	Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C)
I	and an aniline point greater than 200°F (93
ı	(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS
ı	CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR
ı	SYNTHETIC OILS.)
ı	Weight 1.2 lb. (.5 kg)
ı	, 3

Minimum Flow for Lubrication 1 SCFM at 100 psig

Materials of Construction

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



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Lubricators

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17L Micro-Mist Lubricators - Standard

Features

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

A	↑ B ↓
	D Distance Required F To Remove All Bowls Regardless Of Drain Option

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

Inches (mm)

† With Twist Drain.

Port	NPT			
Size	Twist Drain	No Drain		
Poly Bowl ‡ / Metal	Poly Bowl ‡ / Metal Guard			
1/2"	_	17L32BE		
3/4"	_	17L42BE		
Metal Bowl / Sight Gauge				
1/2"	17L34BE	_		
3/4"	17L44BE	_		

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

Polycarbonate Bowl 2 Metal Bowl Guard / No Drain

Metal Bowl Guard / No Drail

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/Nylo
- C With Fill Plug/Nylon Sight Dome
- F With Body Pressure Fill
- G With Body Pressure Fill / Nylon Sight Dome

Engineering Level

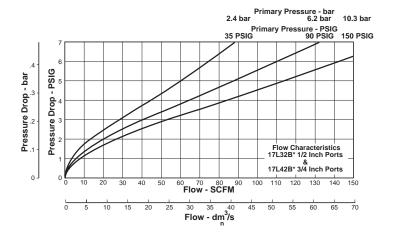
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ent

Port Type
Blank NPT
1 BSPP

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





17L Micro-Mist Lubricator Kits & Accessories

Adjustment Kr	nob	P04121
Bowl Guard Ki	t	PS805P
Bowl Kits -		
Poly Bowl –	No Drain	PS817P PS819P
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 Brac	ket Kit	PS843P
12 Quart	Case	F442003
Pressure Fill A	dapter Kit	PS716P
Pressure Fill B	Button	P11912
Remote Auto-F	Fill Device	PS505CP
Sight Dome / Fill Cap KitPS739P		
Sight Dome Ki	t	PS740P
Nylon Sight Do	ome Kit	PS740N

Specifications

C119

I	Bowl Capacity4.9 Ounces
I	Minimum Flow for Lubrication 1 SCFM at 100 psig
I	Port Threads
I	Pressure & Temperature Rating –
I	Polycarbonate Bowl – 0 to 150 psig (0 to 10.3 bar)
I	32°F to 125°F (0°C to 52°C)
I	Metal Bowl – 0 to 250 psig (0 to 17.2 bar)
I	32°F to 175°F (0°C to 80°C)
I	Suggested LubricantF442 Oil
I	Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C)
I	and an aniline point greater than 200°F (93°C)
I	(DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS
I	CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR
I	SYNTHETIC OILS.)
I	Weight 1.9 lb. (.9 kg)
I	

Materials of Construction

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



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Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos



Prep-Air[®] II **Air Preparation Units**

Mist Lubricators

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

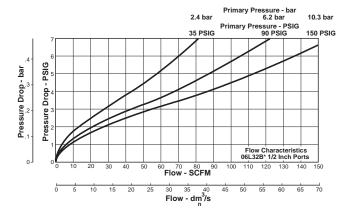
Mist Air Lubricators are designed to provide lubrication for most general applications in a pneumatic system. Units should be installed close to the application ensuring effective distribution of oil to pneumatic components.

- Miniature 02L Series, 1/4 and 3/8 Inch
- Miniature 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.
- 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.

C

Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories

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

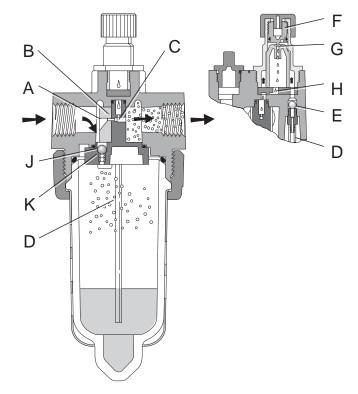
Mist

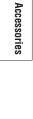
These lubricators inject an oil aerosol into the flowing air stream to automatically provide the proper amount of internal lubrication to air operated tools or other pneumatic devices.

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.





Coalescers

Regulators



02L Lubricator - Miniature

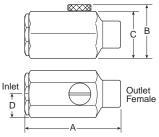


Features

- 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
UZLZD	(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*		
Operating Temp	eratur	e 32° to 150°F (0° to 65.5°C)
Maximum Supp	ly Pres	sure 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

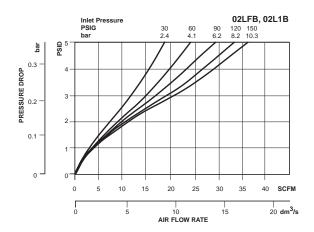
Suggested Lubricant F442 Oil

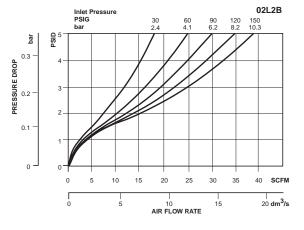
Petroleum based oil of 100 to 200 SSU viscosity at 100°F (38°C) and an aniline point greater than 200°F (93°C) (DO NOT USE OILS WITH ADDITIVES, COMPOUNDED OILS CONTAINING SOLVENTS, GRAPHITE, DETERGENTS, OR

Replacement Kits

SYNTHETIC OILS.)

Fill Plug Kit – Brass Fill Plug and O-ring	S434
O-ring Repair KitP	S435





C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos



04L Mist Lubricators - Miniature

Filters

Coalescers

Regulators

Filter/ Regulators

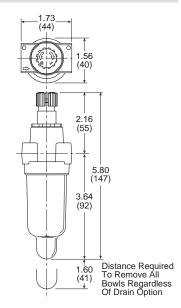
Combos

Features

· Proportional oil delivery over a wide range of air flows.

• Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.

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



Port Size	NPT	
	Twist Drain	No Drain
Poly Bowl ‡		
1/8"	_	04L00GB
1/4"	_	04L10GB
Metal Bowl without Sight Gauge		
1/8"	04L03GB	_
1/4"	04L13GB	_

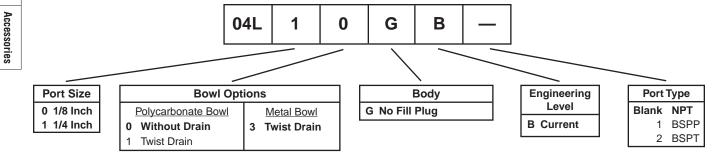
Standard part numbers shown bold.	For other models refer to
ordering information below.	

- [‡] 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.

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

Inches (mm)

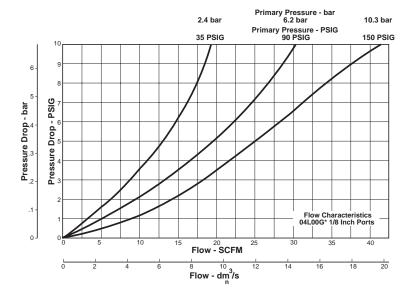
Ordering Information

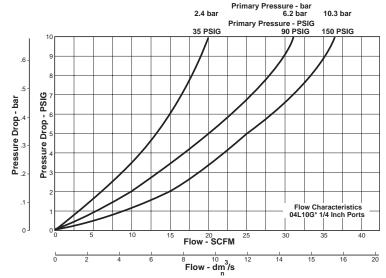


C124



[†] With Twist Drain.





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
Dunantuna Datiuma	

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



Product Selection

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

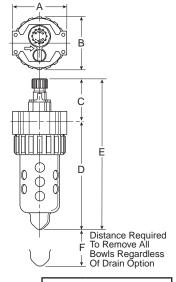


06L Mist Lubricators - Compact

Features

- Proportional oil delivery over a wide range of air flows.
- · Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Bowl can be filled while air line is under pressure.
- Transparent sight dome for 360° visibility.
- High Flow: 1/4" 40 SCFM§ 3/8" - 60 SCFM§

1/2" - 90 SCFM§



06L Lubricator Dimensions		
A 2.81 (71)	B 2.74 (70)	C 2.24 (57)
D 5.58 (142)	D † 5.69 (145)	E 7.82 (199)
E † 7.93 (201)	F 2.25 (57)	

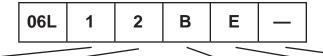
Inches (mm) †With Twist Drain.

Port Size	NPT	
	Twist Drain	No Drain
Poly Bowl ‡ / Metal	Guard	
1/4"	_	06L12BE
3/8"	_	06L22BE
1/2"	_	06L32BE
Metal Bowl / Sight Gauge		
1/4"	06L14BE	_
3/8"	06L24BE	_
1/2"	06L34BE	_

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

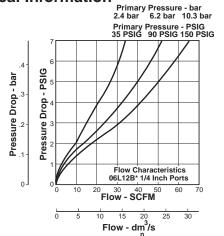
- **B** With Fill Plug C With Fill Plug/Nylon
- Sight Dome F With Body Pressure Fill
- G With Body Pressure Fill / Nylon Sight Dome

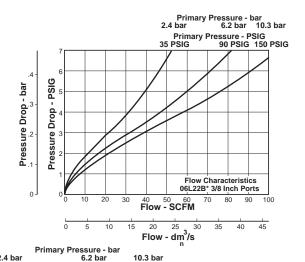
Engineering Level E Current

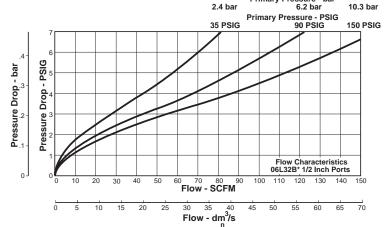
Port Type Blank NPT 1* BSPP

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









06L Mist Lubricator Kits & Accessories

Adjustment Knob	P04121
Bowl Guard Kit	PS705P
Bowl Kits -	
Twist Drain Pressure Fill Remote Fill Metal Bowl – Sight Gauge / Twis	PS746P PS717P PS719P PS728P t Drain PS729P
Sight Gauge / Pres	sure FillPS720P
Drain Kit – Twist Drain	PS512P
Fill Cap Kit	PS741P
Lubricator Service Kit	PS718P
Mounting Bracket Kit	PS743P
Pressure Fill Adapter Kit	PS716P
Pressure Fill Button	P11912
Remote Auto-Fill Device	PS505CP
Sight Dome / Fill Cap Kit	PS738P
Sight Dome Kit	PS740P
Nylon Sight Dome Kit	PS740N

Specifications

Bowl Capacity	2.9 Ounces
Minimum Flow for Lubrication	5 SCFM At 100 psig
Port Threads	1/4, 3/8, 1/2 Inch
Pressure & Temperature Rating –	
Polycarbonate Bowl – 0 to 32°F	150 psig (0 to 10.3 bar) to 125°F (0°C to 52°C)
	250 psig (0 to 17.2 bar) to 175°F (0°C to 80°C)
Suggested Lubricant	F442 Oil
Petroleum based oil of 100 to 200 SSU visco and an aniline point greater than 200°F (93°	
(DO NOT USE OILS WITH ADDITIVES, CO CONTAINING SOLVENTS, GRAPHITE, DE SYNTHETIC OILS.)	
Weight	1.2 lb. (0.5 kg)
Materials of Construction	
Body	
Bowls - Transparent	Polycarbonate
Metal (With Sight Gauge)	Zinc
Bowl Guard	Steel
Collar	
Drain - Twist - Body & Nut	
Injector Meter Block & Base Assembly	Plastic
Spale	Nitrila

 Sight Dome
 Polycarbonate

 Sight Gauge
 Polyamide (Nylon)



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Coalescers

Regulators

Filter/ Regulators

Lubricators

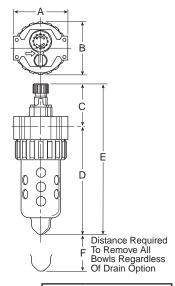
Combos



07L Mist Lubricators - Standard

Features

- Proportional oil delivery over a wide range of air flows.
- · Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Bowl can be filled while air line is under pressure.
- Transparent sight dome for 360° visibility.
- High Flow: 1/2" 90 SCFM[§] 3/4" - 90 SCFM§



07L Lubricator Dimensions		
A 3.24 (82)	B 3.25 (83)	C 2.41 (61)
D 6.86 (174)	D † 6.95 (177)	E 9.09 (231)
E † 9.35 (237)	F 2.75 (70)	

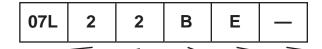
Inches (mm) † With Twist Drain.

Port	NPT	
Size	Twist Drain	No Drain
Poly Bowl ‡ / Metal	Guard	
1/2"	_	07L32BE
3/4"	_	07L42BE
Metal Bowl / Sight Gauge		
1/2"	07L34BE	_
3/4"	07L44BE	_

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

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

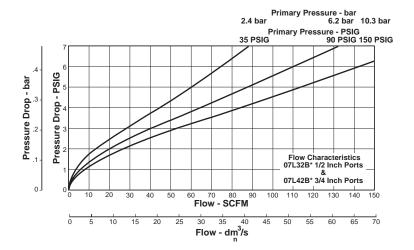
- **B With Fill Plug**
- C With Fill Plug/Nylon Sight Dome
- F With Body Pressure Fill
- G With Body Pressure Fill / Nylon Sight Dome

Engineering Level **E** Current

Port Type Blank NPT 1* BSPP

1/2 inch meets ISO 1179-1 Standard.





07L Mist Lubricator Kits & Accessories

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

Specifications

C129

Bowl Capacity	6.0 Ounces
Minimum Flow for Lubrication	
Port Threads	1/2, 3/4 Inch
Pressure & Temperature Rating –	
	0 to 150 psig (0 to 10.3 bar)
1	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)
Suggested Lubricant	F442 Oil
Petroleum based oil of 100 to 200 SSU and an aniline point greater than 200°F	
(DO NOT USE OILS WITH ADDITIVES CONTAINING SOLVENTS, GRAPHITE SYNTHETIC OILS.)	•
Weight	1.9 lb. (0.9 kg)
Materials of Construction	
Body	Zinc
Bowls - Transparent	PolycarbonateZinc
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)



C

Product Selection

Filters

Coalescers

Regulators

Filter /

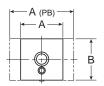
Lubricators

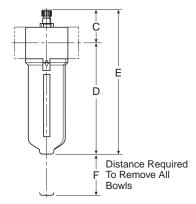
Combos

P3NL Mist Lubricators - Hi-Flow

Features

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies.
- Proportional oil delivery over a wide range of air flows.
- Bowl can be filled while air line is under pressure.
- Transparent sight dome for 360° visibility.
- High Flow: 3/4" 240 SCFM§
 1" 250 SCFM§
 1-1/2" 260 SCFM§





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

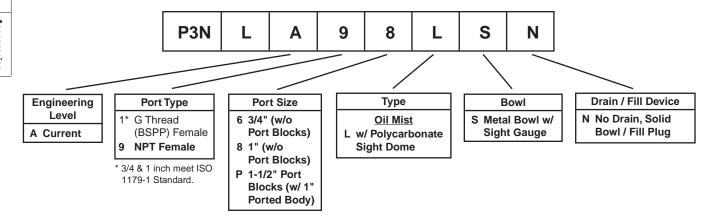
Standard part numbers shown bold. For other models refer to ordering information below $% \left(1\right) =\left(1\right) \left(1\right) \left$

- # 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



C130

Note: BSPP ported units supplied using NPT ported bodies and BSPP port block kits.

BOLD ITEMS ARE MOST POPULAR.



C

Product Selection

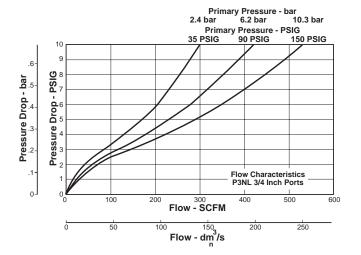
Filters

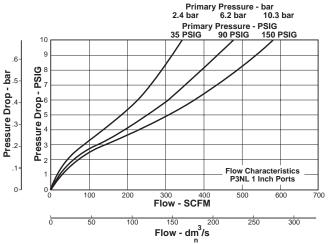
Coalescers

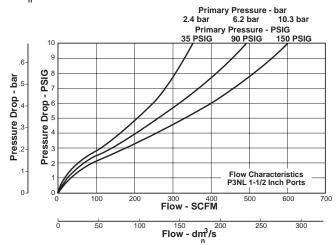
Regulators

Filter/ Regulators

Lubricator







P3NL Lubricator Kits & Accessories

Adjustment Knob	P04121
Bowl Kits –	
Metal Bowl - Sight Gauge / Twist Drain	
Metal Bowl – Sight Gauge / No Drain	P3NKA00BSN
Bowl Latch Kit	C11A33
Drain Kit – Twist Drain	PS512P
Fill Cap Kit	P3NKA00PL
Sight Dome Kit - Polycarbonate	PS740P
Nylon	PS740N
Sight Gauge Kit	P3NKA00PE
Pressure Fill Adapter Kit	P3NKA00PK
Service Kit	P3NKA00RL
Mounting Bracket Kit*	.P3NKA00MW
Oil – 1 Gal	F442002
12 Quart Case	F442003
4 Gallon Case	F442005

Specifications

Bowl Capacity Minimum Flow for Lubrication	
Pressure & Temperature Rating	32°F to 175°F (0°C to 80°C)
Suggested Lubricant	F442 Oil
Petroleum based oil of 100 to 200 SSU and an aniline point greater than 200°F	, ,
(DO NOT USE OILS WITH ADDITIVES CONTAINING SOLVENTS, GRAPHITE SYNTHETIC OILS.)	
Weight – 3/4 Inch	

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)

C131



C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Compos

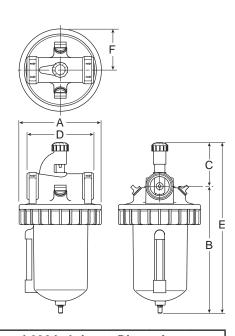
L606 Standard Lubricators

^



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	NPT BSPP		
Zinc Bowl / Sight Gauge / Drain			
3/4"	L606-06W/M8	L606G06W/M8	
1"	L606-08W/M8	L606G08W/M8	
Aluminum Bowl 32 oz. without Sight Gauge, With Drain			
3/4"	L606-06E/M8	L606G06E/M8	
1"	L606-08E/M8	L606G08E/M8	
Aluminum Bowl 64 oz. with Sight Gauge, No Drain			
3/4"	L606-06G/M8	L606G06G/M8	
1"	L606-08G/M8	L606G08G/M8	

L606 Lubricator Dimensions					
Α	В	С	D	E	F
L606-06W, L606-08W					
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)

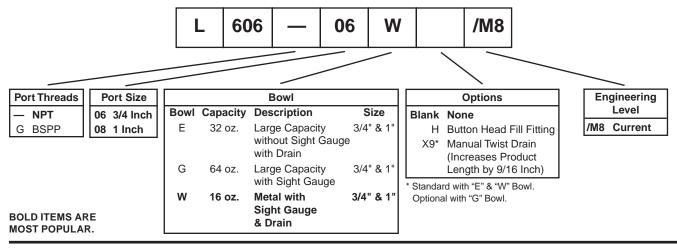
inches (mm)

Bold Items are Most Popular.

For other models refer to ordering information below.

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

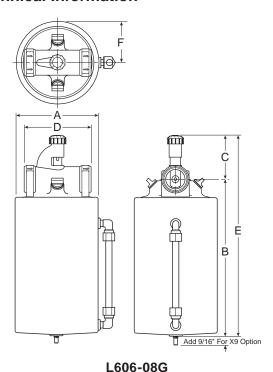
Ordering Information





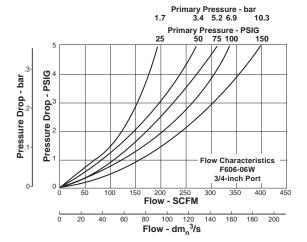
Air Line Mist Lubricators

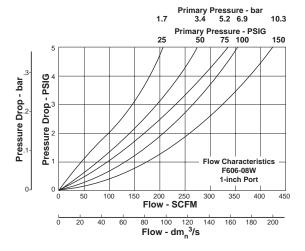
Technical Information



L606 Lubricator Kits & Accessories

LOUG LUDITICATOR MILS & ACCESSORIES
Adjusting Knob606Y72
Bowl Kits – Aluminum (E)
Button Head Fill Fitting (M14 male thread)L606C14
Dip Tube KitDTK606
Drip Spout Kit RK606SY
Mounting Bracket – 3/4 Inch units (2 required per unit)
Oil –1 Gal. F442002 12 Quart Case F442003 4 Gallon Case F442005
Repair Kits – Needle Valve Assembly (All)
Specifications
Bowl Capacity – Aluminum (E)
Port Threads
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)





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)
16.6 lb. (7.53 kg) / 4-Unit Master Pack
Suggested Lubricant F442 Oil

Petroleum based on or 100 to 200 550 visc	osity at 100 F (36 C)
and an aniline point greater than 200°F (93°	°C).
(DO NOT USE OILS WITH ADDITIVES, CO	MPOUNDED OILS
CONTAINING SOLVENTS, GRAPHITE, DE	TERGENTS, OR
SYNTHETIC OILS.)	

Materials of Construction

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

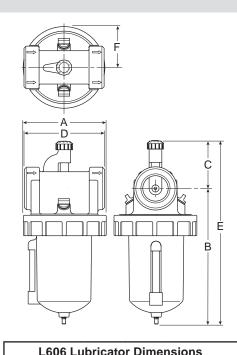


40°F to 125°F (4.4°C to 52°C)

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/M8	L606G10W/M8	
1-1/2"	L606-12W/M8	L606G12W/M8	
Aluminum Bowl 32 oz. without Sight Gauge, With Drain			
1-1/4"	L606-10E/M8	L606G10E/M8	
1-1/2"	L606-12E/M8	L606G12E/M8	
Aluminum Bowl 64 oz. with Sight Gauge, No Drain			
1-1/4"	L606-10G/M8	L606G10G/M8	
1-1/2"	L606-12G/M8	L606G12G/M8	

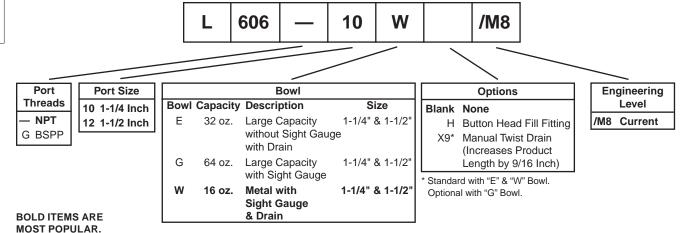
Lood Edditicator Difficultions					
Α	В	С	D	Е	F
L606-10W, L606-12W					
4.97 (126)	7.63 (194)	2.84 (72.2)	4.81 (122)	10.47 (266)	2.48 (63.1)
L606-10E, L606-12E					
4.97 (126)	11.13 (283)	2.84 (72.2)	4.81 (122)	13.97 (255)	2.48 (63.1)
L606-10G, L606-12G					
5.00 (127)	7.99 (203)	2.84 (72.2)	4.81 (122)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

(mm)

Bold Items are Most Popular.

For other models refer to ordering information below.

Ordering Information





Filter/ Regulators

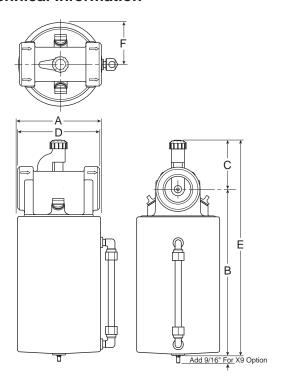
Coalescers

Regulators

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

Air Line Mist Lubricators

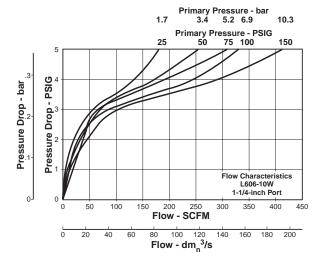
Technical Information

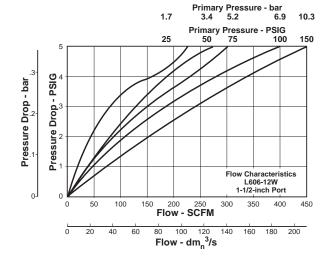


L606-12G

L606 Lubricator Kits & Accessories

Adjusting Knob606Y72
Bowl Kits -
Aluminum (E)
Button Head Fill Fitting (M14 male thread)L606C14
Dip Tube KitDTK606
Drip Spout Kit RK606SY
Oil –1 Gal. F442002 12 Quart Case F442003 4 Gallon Case F442005
Repair Kits – Needle Valve Assembly (All)
Specifications
Bowl Capacity – Aluminum (E)
Port Threads
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

C135

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

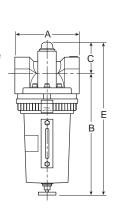
Filter/ Regulators

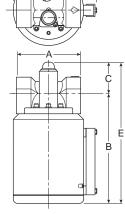
Combos

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	: Gauge – 1 Quart	
2"	09L84BA	
Metal Bowl / Sight Gauge – 3 Quart		
2"	09L8PBA	

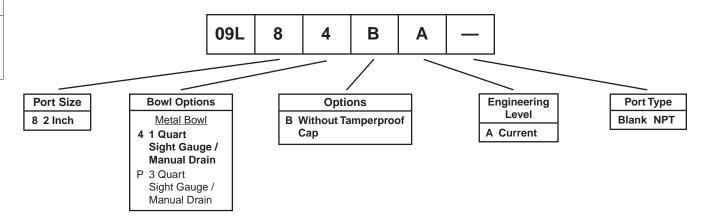
Standard part numbers shown bold. For other models refer to ordering information below.

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

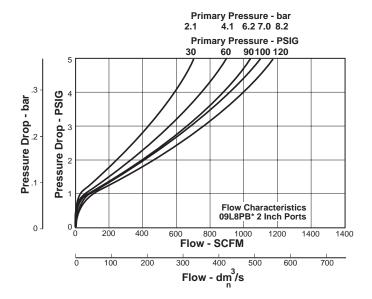
09L Lubricator Dimensions									
	Α	В	С	D	E	F			
1 Qt.	5.50 (140)	10.40 (264)	2.64 (67)	_	13.04 (331)	_			
	Α	В	С	D	E				
3 Qt.	5.50 (140)	9.44 (240)	2.64 (67)	6.00 (152)	12.08 (307)	7.12 (181)			

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

Bowl Capacity	1 Qt. (Standard) 3 Qt. (Optional)
Bowl	Metal with Sight Gauge
Drain	Manual Twist Drain
Port Threads	2 Inch
Pressure & Temperature Rating	0 to 150 psig (0 to 10.3 bar) 32°F to 150°F (0°C to 66°C)
Suggested Lubricant	F442 Oil
Petroleum based oil of 100 to 200 S and an aniline point greater than 20	
(DO NOT USE OILS WITH ADDITIVE CONTAINING SOLVENTS, GRAPH	•

Materials of Construction

C137

Body	Zinc	Alloy,	Die (Cast
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C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulator

Lubricators

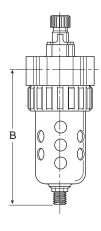
Combos

Remote Auto-Fill Device



Features

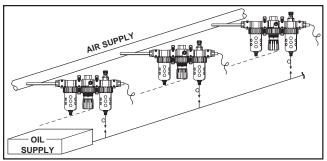
- Wide operating range (oil supply to inlet may be 30 to 270 psig; air operating pressure depends on bowl used).
- · Rugged polyurethane float design.
- · Complete field conversion kit.
- Adaptable on polycarbonate and metal bowls already in service.
- · Oil supply strainer standard.
- Fits 06L / 16L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

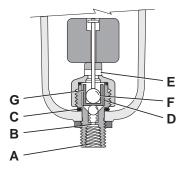
Regulators

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

Aluminum
Polyurethane
Delrin
Nitrile
Stainless



Close Nippled Combinations - 14 Miniature Series

• See individual component pages for details.

Two-Unit Combo

Coalescers

Regulators

Filter / Regulators

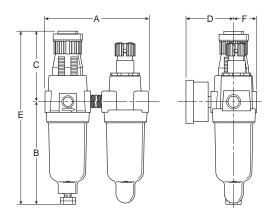
Combos

Accessories



	`	
Series	Port	Model Numbers
440	1/8"	14G01B13F0GD
14G	1/4"	14C11P12E0CD

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



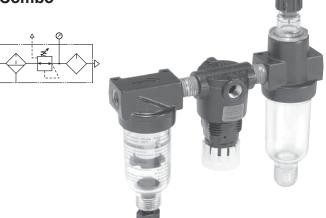
Α	В	С	D	Е	F
3.75	3.79	2.42	2.04	6.21	0.79
(95)	(96)	(61)	(52)	(158)	(20)

Inches (mm)

Note: All dimensions nominal.

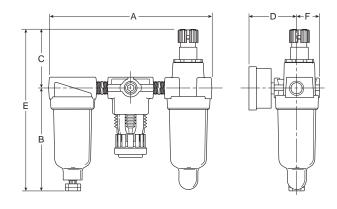
• Regulator can be mounted with knob in up or down position.

Three-Unit Combo



Series	Port	Model Numbers
14A	1/8"	14A01B13F0GF
14A	1/4"	14A11B13F0GF

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)

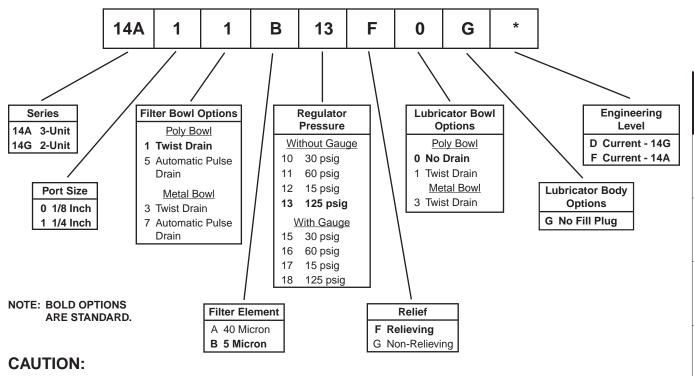
Inches (mm)

Note: All dimensions nominal.



Close Nippled Combinations – 14 Miniature Series

Ordering Information



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.

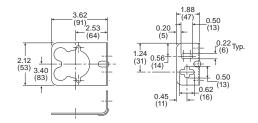
⚠ WARNING

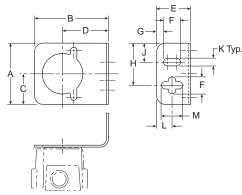
Product rupture can cause serious injury.

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)

C141

Inches (mm)



C

Product Selection

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos

Modular Accessories - 05 Economy Series

(Revised 05-13-14)

Body Connectors PS954P

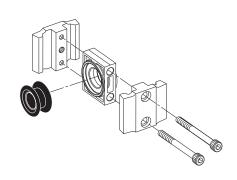


Filters

Coalescers

Regulators

Filter/ Regulators

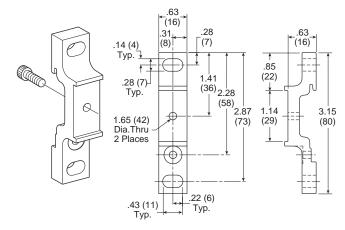


Body Connectors allow you to easily assemble and disassemble Modular Combinations.

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

Each Kit includes one set.

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.



C

Product Selection

Filters

Coalescers

Regulators

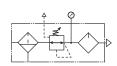
Filter / Regulator

Lubricators

Close Nippled Combinations - 06 Compact & 07 Standard Series

• See individual component pages for details.

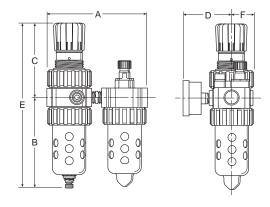
Two-Unit Combo





Series	Model Numbers	Port	Model Numbers	Series
	06G12A13A2BC	1/4"	16G12A13A2BC	
06G	06G22A13A2BC	3/8"	16G22A13A2BC	16G
	06G32A13A2BC	1/2"	16G32A13A2BC	
076	07G32A13A2BD	1/2"	17G32A13A2BD	17G
07G	07G42A13A2BD	3/4"	17G42A13A2BD	176

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



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)

All dimensions nominal.

Three-Unit Combo

Coalescers

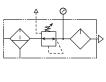
Regulators

Filter / Regulators

Lubricators

Combos

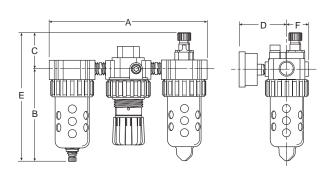
Accessories





Series	Model Numbers	Port	Model Numbers	Series
	06A12A13A2BC	1/4"	16A12A13A2BC	
06A	06A22A13A2BC	3/8"	16A22A13A2BC	16A
	06A32A13A2BC	1/2"	16A32A13A2BC	
074	07A32A13A2BD	1/2"	17A32A13A2BD	17A
07A	07A42A13A2BD	3/4"	17A42A13A2BD	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)	

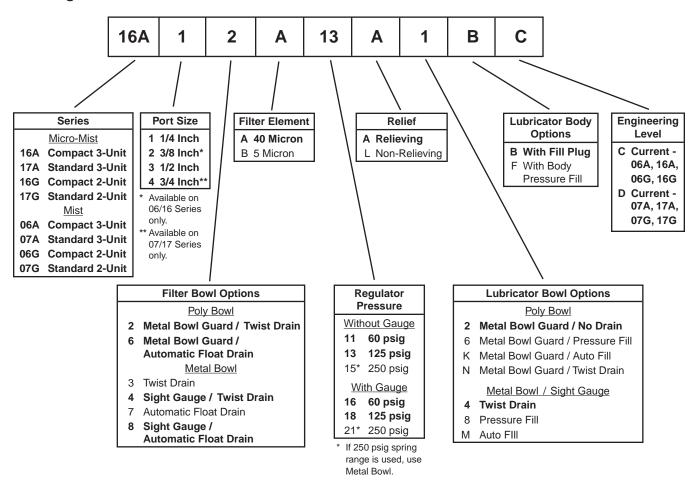
Inches (mm)

All dimensions nominal.



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.)

C145

 Mounting Bracket Kit
 (Includes Panel Mount Nut)

 06A, 16A, 06G, 16G
 PS707P

 07A, 17A, 07G, 17G
 PS807P



duct

Filters P

Coalescers

ators Coal

Regulators

Filter /

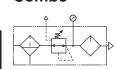
bos Lubricators

Accessories

woder Numbers & Dimensions

• See individual component pages for details.

Two-Unit Combo

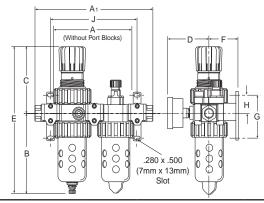




Modular Combinations - 06 Compact & 07 Standard Series

Series	Model Numbers	Port	Model Numbers	Series
	06H12A13A2BC	1/4"	16H12A13A2BC	
06H	06H22A13A2BC	3/8"	16H22A13A2BC	16H
	06H32A13A2BCG	1/2"†	16H32A13A2BCG	
07H	07H32A13A2BD	1/2"	17H32A13A2BD	17H
0/H	07H42A13A2BD	3/4"	17H42A13A2BD	1/11

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



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)			
	i	0/H, 1/I	H Series	i		
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

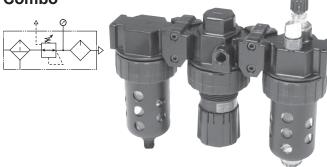
Coalescers

Regulators

Filter / Regulators

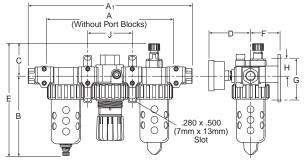
Lubricators

Accessories



Series	Model Numbers	Port	Model Numbers	Series
	06B12A13A2BC	1/4"	16B12A13A2BC	
06B	06B22A13A2BC	3/8"	16B22A13A2BC	16B
	06B32A13A2BCG	1/2"†	16B32A13A2BCG	
07B	07B32A13A2BD	1/2"	17B32A13A2BD	17B
07B	07B42A13A2BD	3/4"	17B42A13A2BD	176

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



06B, 16B Series					
A 9.46	A ₁ 12.39	B 5.69	C 2.24	D 3.18	E 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)

C146

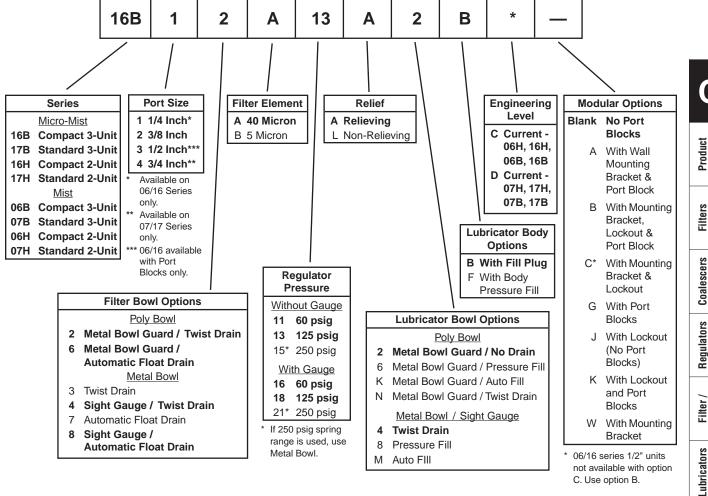
All dimensions nominal.



2 & 3 Unit Modular Combinations

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:	Size	NPT	BSPP	BSPT
06 Series	1/4"	PS750P	. PS765P [†]	PS761P
	3/8"	PS751P PS752P*	. PS766P [†] ,	PS762P
		PS752P*	. PS767P* ^T .	PS799P*
* Use 1/4 or 3/8 ported bo	odies.			

† 1/4. 3/8 & 1/2 inch meet ISO 1179-1 Standard

07 Series	1/4"	.PS850P	.PS865P	.PS861P
			.PS866P	
	1/2"	.PS852P	.PS867P [‡]	.PS863P
	3/4"	.PS853P	.PS860P	.PS864P

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

C147



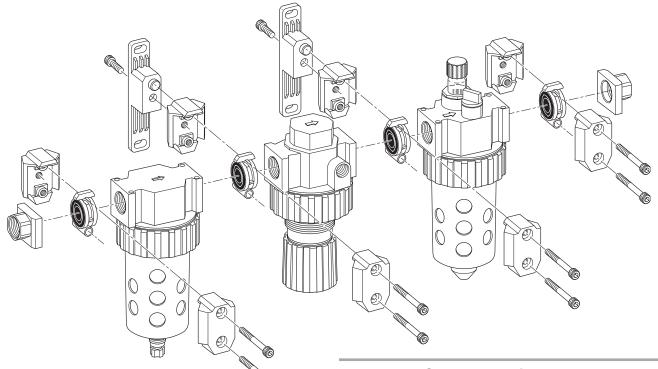
Lubricators

Combos

Filters

Coalescers

Modular Accessories - 06 Compact & 07 Standard Series



Body Connectors

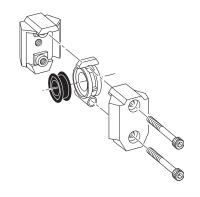
Coalescers

Regulators

Filter / Regulators

Accessories

06 Series PS754P 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.

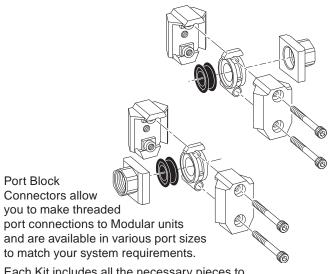
Port Block Connector Kits

Series	Size	NPT	BSPP	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.	10.4.0t		

^{† 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
	2/4"	DC0E2D	DCOCOD	DC0CAD

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



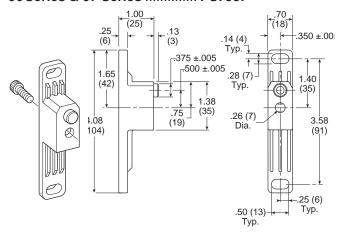
Each Kit includes all the necessary pieces to make two port connections.



Modular Accessories - 06 Compact & 07 Standard Series

Wall Mounting Kits

06 Series & 07 Series PS755P



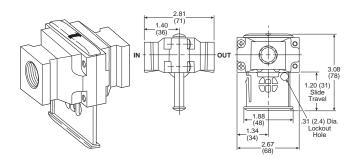
Wall Mounting Kits are available for mounting your Modular Assemblies and can be assembled and used with any standard body connector set.

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 PS756P3/8" Port 07 Series PS856P1/2" Port

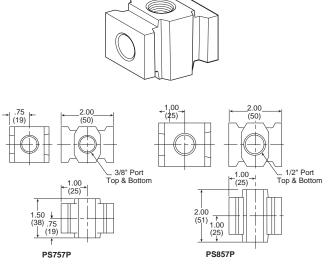


Lockout Valves provide positive shut-off and exhaust capability to isolate Modular units so they can be easily removed from the line and can be locked in a closed position. Center position can be used as a slow start. Accepts #3 padlock.

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

Compos

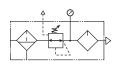
Accessories

P3N Hi-Flow Series

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 Standard on Filter
- · Relieving Regulator
- 125 PSI (8.6 bar)

Filters

Coalescers

Regulators

Filter/ Regulators

Lubricators

Combos

Accessories

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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.

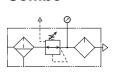
A2 (w/ Mtg Brkts, _ w/o Port Blocks)	←A ₃ (w/ Mtg Brkts & Port Blocks)→ ←———————————————————————————————————	← B2 → (w/ Mtg Brkts) ← B1 → H
C C		

Α	A 1	A 2	A 3	В	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)
С	D	Е				
1		1				
6.38	9.57	15.95				

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





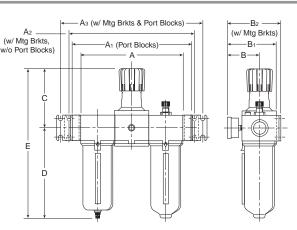
- Manual Twist Drain Standard on Filter
- Relieving Regulator
- 125 PSI (8.6 bar)

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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)

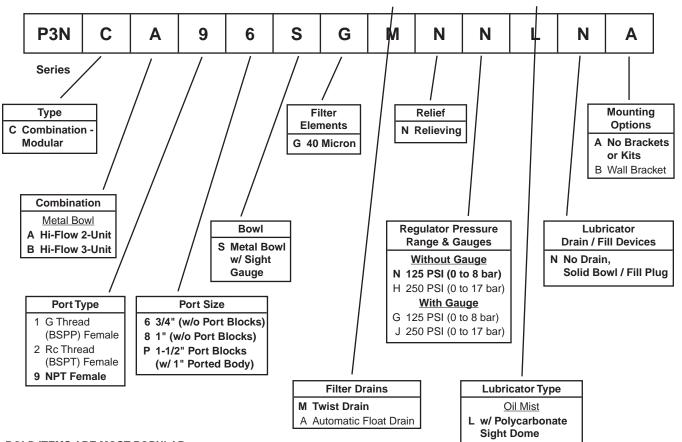
C150

- 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).



Modular Combinations - P3N Hi-Flow 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.

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

C151

 Port Block Kits: For Modular Combinations

 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.

Wall Mounting Kit*......P3NKA00MW

luct ction

Produ Selecti

Filters

Coalescers

Regulators

Filter/

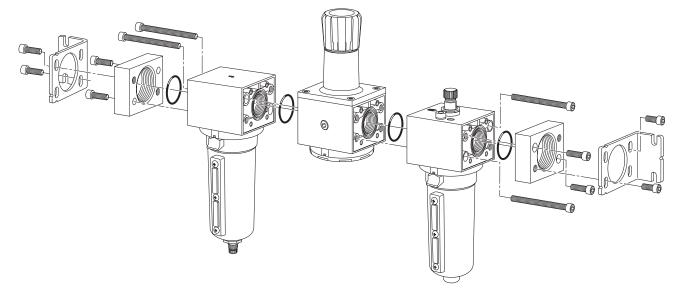
Lubricators

Combos

Accessories

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

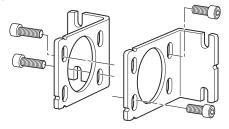
Modular Accessories - P3N Hi-Flow Series



Mounting Brackets

P3NKA00MW

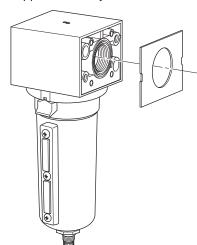
For 1-1/2" BSPP Port Block with E02 fitting application, use **Mounting Bracket Kit P3NKA0BMW**



Replacement Body Covers P3NKA00PM

Each Kit contains two covers.

All units are shipped with body covers.



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

Port Block Kits

3/4"

1"

1-1/2"

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

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

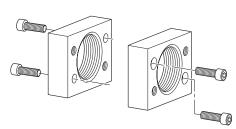
2 and 3 Piece Combinations including a Lubricator (FR/L & FRL), Individual Lubricators, Individual Coalescing Filters and 2-Piece Filter and Coalescer Assemblies:

NPT P3NKB96CLP3NKB98CLP3NKB9BCL 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.





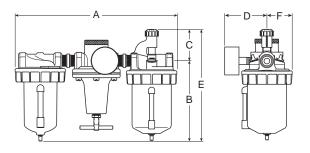
- See individual components for details.
- · Gauges included on combinations.

Three-Unit Combo



Series	Port	Model Numbers
	3/4"	C628-06FRLWJCW
	1"	C628-08FRLWJCW
C628	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.

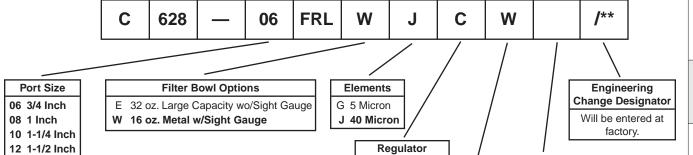
Reduced

Pressure Range

C 0-125 psig

D 0-250 psig

Ordering Information



C153

BOLD ITEMS ARE MOST POPULAR.

⚠ 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.

Ladada da Barri Ontino

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

Lubricator Bowl Options

-Parker

Drains and Options

H Button Head Fill Fitting

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)

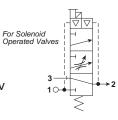
(Lubricator)

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

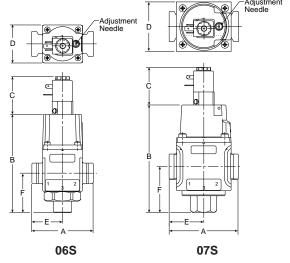
068 Operation

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 B Series Port Size Operator / Voltage Thread Engineering Type / Label Soft Start / Quick 2 3/8 Inch (06S) 30-145 PSI **Dump Valve B** Current 3 1/2 Inch (07S) 49 24VDC* Blank NPT 07S Soft Start / Quick 120/60 Hz* BSPP (G) **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



Prep-Air® II, 06S & 07S

Air Line Accessories

Performance Characteristics

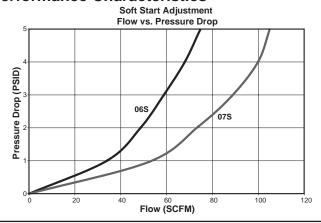


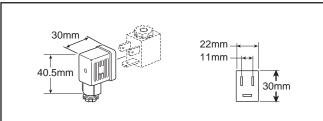
Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Dressure nois	Downstream Pressure psig			
Inlet Pressure psig	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

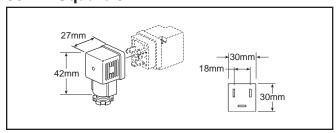
^{*} LED with surge suppression.

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

Specifications

	1/2 Inch 3/4 Inch
	3/8 Inch
High Pressure Coil	
Minimum Operating Pressure Temperature Ratings	
Weight 06S	2.25 lbs. (1.02 kg) 3.75 lbs. (1.70 kg)

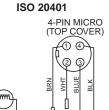
Materials of Construction

Body	Aluminum
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





Filters

Coalescers

Regulators

Lubricators

Combos

Accessories



06T & 07T Solenoid Quick Dump Valve

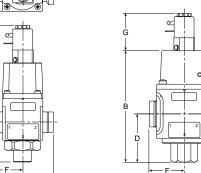
Features

- 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



06T

07T

Dimensions:

Model	Port Size	Α	В	С	D	E	F	G	н
06T	3/8"	3.36 (85)	5.40 (137)		2.17 (26)	1.04 (43)	1.68 (43)	2.07 (53)	1.90 (48)
07T	1/2"	3.81 (96)	5.96 (151)	2.74 (70)	2.55 (65)	1.37 (35)	1.91 (48)	2.07 (53)	1.90 (48)

Inches (mm)

Operation

The solenoid quick dump valves are high flow, normally closed, 3-Port, 2-Position directional control valves. Upon energizing the solenoid, inlet air is applied to the top of the piston. The piston pushes against the spring and opens the main valve providing full flow air to the downstream. When the solenoid is de-energized, the main valve closes allowing downstream air to exhaust rapidly through the bottom plug. The bottom plug is tapped so that exhaust may be piped away or fitted with a muffler.

CAUTION: Do not use synthetic, reconstituted, or oils with an alcohol content or detergent additive.

CAUTION: Do not restrict the inlet of valves having an internal pilot supply. Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

Ordering Information 06T 2 53 A Engineering Series **Port Size** Operator / Voltage **Thread** Level Type / Label 06T Solenoid Quick 2 3/8 Inch (06T) 30-145 PSI **Dump Valve** Current Blank NPT 49 24VDC* 3 1/2 Inch (07T) 07T Solenoid Quick 53 120/60 Hz* BSPP (G) **Dump Valve** 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

BOLD ITEMS ARE MOST POPULAR.



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

Coalescers

Regulators

Performance Characteristics

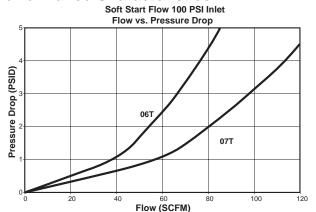


Table 2: Product forward Flow Cv (1 to 2).

Series	Flow Cv	Exhaust Flow Cv
06T	3.7	4.1
07T	5.5	5.0

Filters

Coalescers

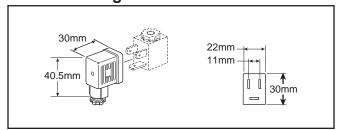
Regulators

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

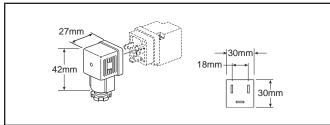
^{*} LED with surge suppression.

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.

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	P\$854P
1/2" Exhaust Silencer	ES50MB
3/4" Exhaust Silencer	ES75MB

Specifications

Exhaust Ports

06T	
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)
	3.75 lbs. (1.70 kg)

Materials of Construction

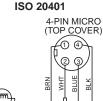
Body Alu	minum
Bottom Plug	. Brass

Connections

C157

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	24V Alarm Output Signal	

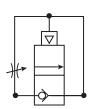




06P & 07P Auto Pilot Soft Start Valve

Features

- Smooth start-up of pneumatic system
- · Air pilot operation
- Large flow capacities up to 5.5 Cv
- Inline or Modular Mounting





06P



Operation

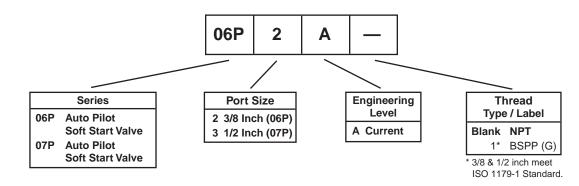
When pressure is supplied to the inlet port, gradual filling of the downstream system occurs through the adjustable needle valve. The piston opens the main valve when the downstream side of the valve reaches approximately 60% of the supply pressure. The ramp up time to reach the switch over pressure 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



C158

BOLD ITEMS ARE MOST POPULAR.



Prep-Air[®] II, 06P & 07P **Air Line Accessories**

Performance Characteristics

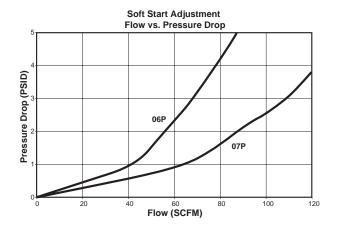


Table 1: Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

Inlet Dressure nois	Downstream Pressure psig					
Inlet Pressure psig	06P	07P				
75	45	25				
100	60	33				
125	75	38				
150	85	45				

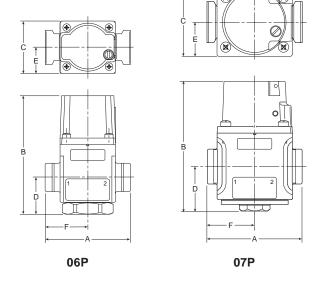
Table 2: Product forward Flow Cv (1 to 2).

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

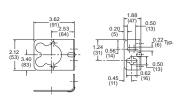
Materials of Construction

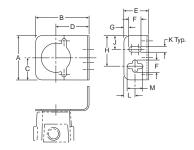
Body	Aluminum
Bottom Plug –	
06P	Brass
07P	Zinc

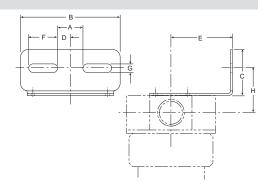
Specifications

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 07P	

Mounting Bracket Kits





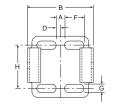


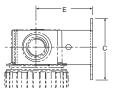
PS417BP

(Includes Panel Mount Nut)

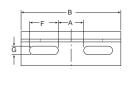
PS419 (Includes Panel Mount Nut)

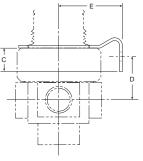
PS743P, PS843P

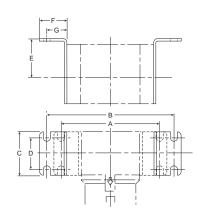




PS943P







PS707P & PS807P

(Includes Panel Mount Nut)

PS963P (Includes Aluminum Panel Mount Nut)

P3NKA00MW

Dimensions

Coalescers

Regulators

Filter / Regulators

Lubricators

Combos

Accessories

									,		,	
Α	В	С	D	Е	F	G	Н	J	K	L	M	Kit
1.80 (46)	2.37 (60)	0.90 (23)	1.35 (34)	1.00 (25)	0.50 (13)	0.20 (5)	1.24 (31)	0.56 (14)	0.22 (6)	0.45 (11)	0.62 (16)	PS417BP (10F, 14F, P3A, 14R, 14E)
1.80 (46)	2.17 (55)	0.90 (23)	1.35 (34)	1.00 (25)	0.50 (13)	0.20 (5)	1.24 (31)	0.56 (14)	0.22 (6)	0.45 (11)	0.62 (16)	PS419 (04L)
0.84 (21)	3.25 (83)	1.50 (38)	0.42 (11)	2.00 (51)	0.94 (24)	0.28 (7)	1.44 (37)	_	_	_	_	PS743P (06F, 11F, 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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Safety Guide

- 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 4.9.
- **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 goods, services or work (referred to as the "Products") offered by Parker-Hannifin Corporation, its subsidiaries, groups, divisions, and authorized distributors ("Seller") are offered for sale at prices indicated in the offer, or as may be established by Seller. The offer to sell the Products and acceptance of Seller's offer by any customer ("Buyer") is contingent upon, and will be governed by all of the terms and conditions contained in this Offer of Sale. Buyer's order for any Products specified in Buyer's purchase document or Seller's offer, proposal or quote ("Quote") attached to the purchase order, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer.

- 1. Terms and Conditions. Seller's willingness to offer Products for sale or accept an order for Products is subject to the terms and conditions contained in this Offer of Sale or any newer version of the same, published by Seller electronically at www.parker.com/ saleterms/. Seller objects to any contrary or additional terms or conditions of Buyer's order or any other document or other communication issued by Buyer
- 2. Price; Payment. Prices stated on Seller's Quote are valid for thirty (30) days, except as explicitly otherwise stated therein, and do not include any sales, use, or other taxes or duties unless specifically stated. Seller reserves the right to modify prices to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). Payment is subject to credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified by Seller's Credit Department). Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under
- 3. Shipment; Delivery; Title and Risk of Loss. All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage 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 (12) months from the date of delivery or 2,000 hours of normal use, whichever occurs first. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: DISCLAIMER OF WARRANTY: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED. 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 receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. No other claims against Seller will be allowed unless asserted in writing within thirty (30) days after delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the defect is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.
- LIMITATION OF LIABILITY. IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE WITHIN A REASONABLE PERIOD OF TIME. NO EVENT IS SELLER LIABLE 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. WHETHER BASED 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. <u>User Responsibility</u>. 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 based upon data or specifications provided by the user, 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, will be considered obsolete and may be destroyed by Seller after two (2) 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 has 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; Rights of Seller</u>. To secure payment of all sums due or otherwise, Seller retains a security interest in all Products delivered to Buyer and this agreement is deemed to be 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 losses, claims, liabilities, damages, lawsuits, judgments and costs

- (including attorney fees and defense costs), 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, application, design, specification 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 furnished by Buyer to manufacture Products; 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. Cancellations and Changes. Buyer may not cancel or modify or cancel any order 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.
- 13. Limitation on Assignment. 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 is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control (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. Waiver and Severability. Failure to enforce any provision of this agreement will not invalidate 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. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate this agreement, in writing, if Buyer: (a) breaches any provision of this agreement (b) appoints 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 one if filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.
- 17. Governing Law. This agreement and the sale and delivery of all Products are 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
- 18. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable 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 refund the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller is not liable 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 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. The terms contained herein may not be modified unless in writing and signed by an authorized representative of Seller
- 20. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards of care, including those of the United Kingdom, the United States of America, and the country or countries in which Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act") and the U.S. Food Drug and Cosmetic Act ("FDCA"), each as currently amended, and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), 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 it is familiar with the provisions of the U. K. Bribery Act, the FCPA, the FDA, and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer will 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

05/14

