









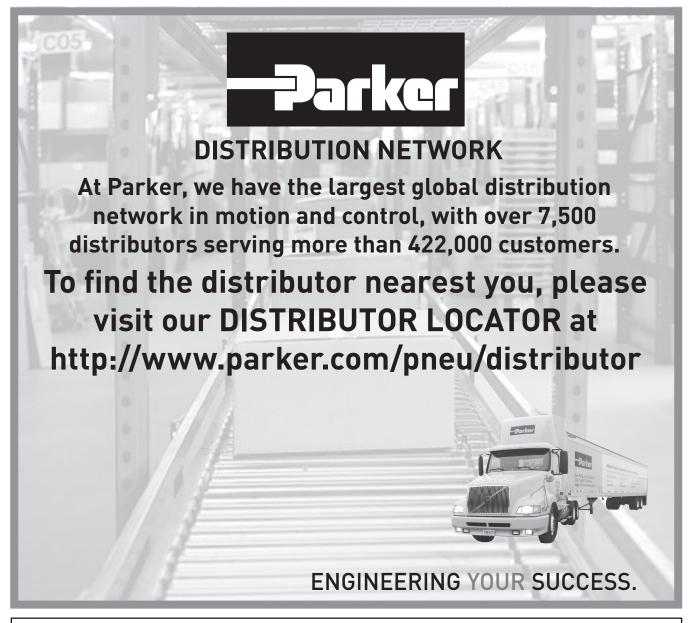
Air Preparation Products

Filters, Regulators, Lubricators, & Airline Accessories Catalog 0700P-8





ENGINEERING YOUR SUCCESS.



\land WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application including consequences of any failure, and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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For inventory, lead times, and kit lookup, visit www.pdnplu.com

Air Preparation Products Product Selection

Product Index, Product Selection Gui Engineering Data	ide,	Α
Global Air Preparation	P31, P32, P33 Series and Accessories	В
P3Y Products	P3Y Series and Accessories	С
14 Series Products	14 Series and Accessories	D
Prep Air [®] II Products	05, 06, 07 Series and Accessories	E
Stainless Steel Products	Stainless Steel and Accessories	F
P3N Products	P3N Series and Accessories	G
General Industrial Products	F602 Series, 35F / 43 Series, F701 Series, P3TF Coalescing Series, R119 Series, 09 Series, L606 Series	н
Miniature / Inline Products	P31 Series, 02 Series, 14 Series, 05 Series, P3A-R Series, R34 Series, R25 Series, R45 Series, 27 Series	J
Regulator Products	General Regulators, Dial Regulators, Pilot Regulators, Proportional Regulators, Semi & Precision Regulators, Water Regulators	κ
Bulk Liquid Separators	P3TF Series	L
Dryer Products	Refrigeration Dryers, Desiccant Dryers	Μ
Airline Accessories	Drains, Lockout Valves, Mufflers, AirGuard Protection System	Ν
Part Number Index, Safety Guide, Offer of Sale		0

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Air Preparation Products Pictorial Index - www.parker.com/pneu/frl

Air Preparation Units

Global FRL's

Product Index Engineering Data

Product Index

Selection Guide

Product

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Data

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C2

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• Port size: 1/4 through 3/4 inch

- Maximum supply pressure: 300 psig
- Operating temperature: -13°F through 150°F
- Filters, regulators, filter / regulators, lubricators and accessories
- Modular construction

P3N Series FRL's



- Port size: 3/4 through 1-1/2 inch
- · Maximum supply pressure: 250 psig
- Operating temperature: 32°F through 175°F High flow
- Filters, regulators, filter / regulators, lubricators and accessories

General Industrial FRL's

- Port size: 1/4 through 6 inch flange
 - Maximum supply pressure: 300 psig
 - Operating temperature: 32°F through 212°F Filters, regulators, filter / regulators,
 - lubricators and accessories

- P3Y FRL's
 - Port size: 3/4 through 1-1/2 inch Maximum supply pressure: 250 psig
 - Operating temperature: -40°F through 140°F
 - Filters, regulators, filter / regulators, lubricators and accessories
 - Modular construction

14 Series FRL's



- Port size: 1/8 through 1/4 inch
- Operating temperature: -4°F through 175°F
- Maximum supply pressure: 300 psig
- Non-modular construction
- Ideal for OEM applications
- Filters, regulators, filter / regulators, and lubricators



Miniature / Inline FRL's

- Port size: 1/8 through 3/8 inch
- Operating temperature: -4°F through 175°F
- Non-modular construction
 - Ideal for point of use applications
 - Filters, regulators, filter / regulators, lubricators and accessories

Prep-Air II FRL's



· Compact & standard • Port size: 1/4 through 3/4 inch

- Maximum supply pressure: 300 psig
- Operating temperature: -4°F through 175°F
- Point of use applications
- Modular construction
- · Filters, regulators, filter / regulators, lubricators and accessories

Stainless Steel FRL's

- Port sizes: 1/4 and 1/2 inch
 - Stainless steel construction handles most corrosive environments
 - Maximum supply pressure: 300 psig
 - Operating temperature -40°F through 180°F **Meets NACE specifications**
 - MR-01-75/ISO 15156
 - Filters, regulators, filter / regulators, and lubricators

Regulator Products



- Port sizes: 1/8 through 2 inch Maximum supply pressure: 300 psig
- Operating temperature: -40°F through 200°F
- Precision
- Electronic proportional
- General Regulators
- Water Regulators

Liquid Separators



- Port sizes 1/4 through 6 inch flange
- Designed in accordance with ASME
- Maximum supply pressure: 232 psig • Operating temperature: 35°F through 175°F
- High liquid removal efficiencies at all flow conditions
- Low maintenance
- · Suitable for variable flow compressors



F2

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(Revised 05-05-20)

Air Preparation Products **Pictorial Index** - www.parker.com/pneu/frl

Air Preparation Units

Dryer Products



- Refrigeration (10-2400 scfm)
- Inline desiccant (15-60 scfm)
- Heatless desiccant dryers (40-800 scfm)

Part Number Index, Safety Guides, Offer of Sale

Part Number to Page Number Index

Safety Guide

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02

Accessories

Airline Accessories



- Zero loss & timer drains
- Drains cocks
- Lockout valvesAirGuard
- Mufflers

Δ



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PNEUMATIC DIVISION E-TOOLS

Pneumatic Division Part Lookup Tool

Part Lookup Tool Overview

The purpose of this application is to provide users with more in depth detail, such as replacement kits or current inventory for specific pneumatic part numbers. The tool also provides cross reference information for products that have been previously obsoleted. Searches can be made by searching a portion or all of a part number. Use the drop down options available to narrow your search.

Part Lookup Tool Contents

- Replacement KITs by part number
- Obsolete cross reference
- Inventory/stock levels
- Pricing (with distributor login only)

How to access the Tool

U.S. Parker Pneumatic Distributors

- www.pdnpartlookup.com
- Or download the "Distributor Toolbox" app •

- Bulk part search
- Shipping location
- Lead time
- Pneumatic



www.pdnplu.com



Size, Selection and Cost of Air Calculators Overview

The purpose of this application is to provide users and designers of pneumatic systems with a handy collection of compressed air cost calculators, conversion tools and air valve (Cv) and flow (SCFM) calculations for air cylinder actuation. The size and select calculators are available to anyone for use. See details below.

How to access the Tool

- www.parkerpdncalc.com
- Or download the "Pneumatics" calculator app

Calculator Contents

- Cost calculator for leaks
- Cost calculator for compressors •
- Cost calculator for reverse flow regulators
- Vacuum flow through an orifice



- Air flow through an orifice
- Annual cost of air cylinder operation
- Valve/FRL sizing for cylinder actuation
- And more!





Selection Guide Engineering Data



Product Index Engineering Data

Produc Index

Product

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Air Preparation Products **Warranty**

The Parker 5-Year Extended Warranty

Parker Hannifin Corporation will extend its warranty on all pneumatic components to sixty (60) months providing they are correctly installed and protected by Parker pneumatic filters which are properly maintained. Components covered by this warranty include all cylinders, valves, and pneumatic automation components manufactured by Parker in any of our global facilities. This warranty covers our components anywhere in the world you may ship your equipment.

Parker's obligation under this warranty is limited to the replacement or repair of any failed components. The buyer understands that the seller will not be liable for any other costs or damages.

The buyers of quality Parker components and filters benefit by having ONE source for all pneumatic needs - Parker.

Janifer a. Parmentici

Jennifer Parmentier President Motion Systems Group

Engineering Data

Selection Guide

Product

Product Index Engineering Data

Product Index





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Together we can power your application with clean, dry air

Fast cycle times, high product quality, and low downtime all require a clean, dry pneumatic system to function properly. Parker has what it takes to make sure pneumatic systems perform at their best.

Clean, dry pneumatic systems with Parker Global Air Preparation

A

Product Index Engineering Data

Product Index

Product Selection Guide

> As air is compressed to 7 bar (100 psig) and higher, the relative humidity quickly reaches 100% RH and air temperatures can reach between 110°C and 200°C (230°F and 392°F).

Air

Compressor

Stage

For every 11°C (20°F) that the air cools after leaving the heat of the compressor, 50% of the moisture condenses into liquid into the system.

The excess moisture condenses and collects in the receiver tank and distribution lines. This condensate must be removed. Bulk liquid separators remove condensed liquids after the aftercooler, receiver, or anywhere within the distribution system.

Bulk liquid separators also help protect downstream filters in the system where excess cooling takes place. Particulate filters are used for the removal of solid particle contaminants down to 5 micron, as well as the removal of condensed liquids

Note: Water and oil, in vapor form, pass through general purpose particulate filters.

This type of filter should be used as a prefilter for the coalescing (oil removal) filter. Coalescing filters are designed to remove water and oil aerosols (not vapor) and particulate from air streams down to 0.01 micron in size.

Installed in pairs, Particulate and Coalescing filters ensure a continuous supply of high quality air.

Key



🗰 Water Vapor



	Air Compressor		2 - 1 1				Product Index	Engineering Data
Stages	10	3	4	6	6	7	Prod	nginee
Function	Air Compressor	Bulk Liquid Removal	Particulate Filtration	Coalescing Filtration	Air Dryers	Hydrocarbon Removal		ш
Application	All pneumatic systems	Basic pneumatic systems	Basic pneumatic systems	Systems requiring highest quality air.	Systems requiring air with reduced moisture content	Systems requiring highest quality air for critical applications	Product	Index
Description	Air leaving the compressor room at 93°C (200°F) releases 95% of its moisture into the piping system when it cools to 38°C (100°F)	Removes bulk liquid contamination and protects filters where excess cooling takes place in the distribution piping	Removes solid particulates down to 5 micron, and the separation of bulk contaminants.	Removes liquid aerosols and submicron particulates (not vapor) down to 0.01 micron.	Removes water vapor from air stream. Dew point reduced down to 4°C (40°F) (refrigeration) or -40°C (-40°F) (desiccant).	Removal of odors and trace vapors for critical applications.	Product Pr	uide
Parker Global Air	Customer supplied	P3TF Bulk Liquid	P31, P32, P33 Particulate Filter	P31, P32, P33 Coalescing Filter	Refrigeration Dryer, TW Regenerative	P31, P32, P33 Activated Carbon	–	Selec
Preparation Solution		Separator			Desiccant Dryer	(Adsorber) Filter	ring	>

Clean Dry Air

Refrigeration and desiccant dryers lower the air's dew point by removing water vapor, providing appropriately dry air for the downstream application.

Hydrocarbon and oil vapors are removed using filters utilizing activated carbon.

Airborne hydrocarbons are often left over from the compressor oils.



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Air Preparation Products Contents - www.parker.com/pneu/frl

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Air Preparation Products

Product Selection

Product Selection Chart

Α	110	uuut				mai																	
	Basic							Port	t Size ((inch)							Bowls		Bowl	E	lement Ty	pe	
Produ Engin	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 flange	6 flange	Poly	Metal	Metal SG	Capacity	5	40	Adsorber	Page
Product Index Engineering Data	S E W E T T	P3TF		•	•	•	•	•		•	•					Alur	ninum E	lody	_	Bulk	Liquid Sep	parator	L2
Product Index	E T R O R S	P3TF												•	•	Ste	el Hous	ing	_	Bulk	Liquid Sep	parator	L5
luct ex		02F		•												Alur	ninum E	lody		Std.	_	_	J2
Sel		P31F		•												•	٠	_	.4 oz.	Std.		_	B 8
Product Selection Guide		PF504		•												Sta	inless S	teel	1.0 oz	Opt.	Std.	_	F2
ict Guide		14F	•	•												•	•	_	1 oz.	Std.	Opt.	Opt.	D2
5		05F		•	•											•		_	2 oz.	_	Std.	_	E2
Engineering Data		P32F		•	•	•										•	•	•	1.7 oz.	Std.	_	_	B10
ing	F	06F		•	•	•										•	•	•	4.4 oz.	Opt.	Std.	_	E4
	L T E	07F				•	•									•	•	•	7.2 oz.	Opt.	Std.	_	E6
	R S	P33F				•	•									•	•	•	2.8 oz.	Std.	_	_	B12
		PF10				•										Sta	inless S	teel	4.0 oz.	Opt.	_	_	F4
		P3Y					•	•								•		_	4.4 oz.	Std.	_	_	C4
		P3NF					•	•		•						_		•	18 oz.	_	Std.	_	G2
		F602					•	•		•	•						•	•	16 oz. (W) 32 oz. (E)	Opt.	Std.	_	H2
		35F								•	•						•	_	13.9 oz.	Std.		_	H8
		43F											•			_	•	_	17.2 oz.	Std.		_	H8





Air Preparation Products **Product Selection**

Product Selection Chart

																							Α
Basic							Por	t Size ((inch)							Bowls		Bowl	E	lement Ty	pe	_	
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 flange	6 flange	Poly	Metal	Metal SG	Capacity	0.01	1.0	Adsorber	Page	Product Index Engineering Data
	02F		•												Ny	lon Hous	sing	_	Std.	Opt.		J8	Product neerin
	P31F		•												•	•	_	.4 oz.	Std.	Opt.	Opt.	B14	Engi
	PF501		•												Sta	inless S	teel	1.0 oz.	Std.	_	_	F6	t
	10F	•	•												•	•	_	1 oz.	Std.	Opt.	_	D4	Product Index
	15F		•	•											•	_	_	2 oz.	Std.	_	_	E8	
C O A	P32F		•	•	•										•	•	•	1.7 oz.	Std.	Opt.	_	B16	ct Guide
L E S	11F		•	•	•										•	•	•	4.4 oz.	Std.	Opt.	_	E10	Product Selection Guide
C I N	12F				•	•									•	•	•	7.2 oz.	Std.	Opt.	_	E12	Sel
G F	P33F				•	•									•	•	•	2.8 oz.	Std.	_	Opt.	B18	ering ta
l L T	PF11				•										Sta	iinless S	teel	4.0 oz.	Std.	_	_	F8	Engineering Data
E R S	РЗҮ					•	•								•			4.4 oz.	Std.	_	_	C6	
	P3NF					•	•		•						—	_	•	18 oz.	Std.	_	_	G4	
	F701					•	•								_	•	•	32 oz. (E) 100 oz. (L)	Std.	Opt.	_	H12	
	35F								•	•						•	_	13.9 oz.	Std.	Opt.	_	H10	
	43F											•			_	•	_	17.2 oz.	Std.	Opt.	_	H10	
	P3TF												•	•		•	_	_	Std.	Opt.	_	H14	



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(Revised 01-19-17)

Air Preparation Products **Product Selection**

Product Selection Chart

Λ	-		uu	ct Sele				iai																									
Α		Basi							Port	Size												S	oring	Rang	je								
Prod Engii		Uni		Series	1/8	1/4	3/8	1/2	3/4	1	1- 1/4	1- 1/2	2	2- 1/2	8	15	20	25	30	40	50	60	100	120	125	140	150	160	175	200	232	250	Page
uct Ind 1eering				P31R		•									—	—	—	—	Opt.	_	—	Opt.	—	_	Std.	_	—	—	—	_	Opt.	—	B20- B23
Product Index Engineering Data				14R	•	•									_	Opt.	_	_	Opt.	_	_	Opt.	_	_	Std.	_	_	_	_	_	_	_	D6
				P3A-R	•	•									_	Opt.	_	_	Opt.	_	_	Opt.	_	Std.	_	-	_	_	_	_	_	_	J20
Product Index				R34	•	•									_	_	_	_	Opt.	_	_	Opt.	_	_	Std.	_	_	_	_	_	_	_	J22
duct ex				R25	•	•									_	_	_	Opt.	_	_	_	Opt.	_	_	Std.	-	_	_	_	_	_	—	J24, K8
Ŋ				R45		•	•								_	_	_	Opt.	_	_	_	Opt.	_	_	Std.	_	_	_	_	_	_	—	J26, K10
Product Selection Guide			S T	15R		•	•								_	Opt.	_	_	Opt.	_	_	Opt.	_	_	Std.	_	_	_	_	_	_	—	J28
Product lection Guid			A N	05R		•	•								_	_	_	_	Opt.	_	_	Std.	_	_	Std.	_	_	_	_	Opt.	_	—	E14
de			D A R –	P32R		•	•	•							_	_	_	_	Opt.	_	_	Opt.	_	_	Std.	_	_	_	_	_	_	Opt.	B24- B27
Engin D			D	06R		•	•	•							_	_	_	_	_	_	_	Std.	_	_	Std.	_	_	_	_	_	_	Opt.	E16
Engineering Data		RE		P33R				•	•						_	_	_	_	Opt.	_	_	Opt.	_	_	Std.	_	_	_	_	_	_	Opt.	B30
Q		G U L		РЗҮ					•	•					_	_	_	_	_	_	_	_	_	_	_	_	_	_	Std.	_	Opt.		C8
		A T O		07R				•	•						_	_	_	_	_	_	_	Std.	_	_	Std.	_	_	_	_	_	_	Opt.	E18
		R S		P3NR					•	•		•			_	_	_	_	_	_	_	_	_	_	Std.	_	_	_	_	_	_	Opt.	G6
				R119		•	•	•	•	•		•			_	_	_	Opt.	_	_	_	Opt.	_	_	Std.	_	_	_	_	_	_	Opt.	H16- H19
				09R									•		_	_	_	_	_	_	_	_	_	_	Std.	-	_	_	_	_	_	—	H26
				11R		•	•	•							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	E20
			P	12R				•	•						*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	E22
			L 0 - T	РЗҮ					•	•					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	C10
			'	P3NR					•	•		•			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	G8 H20-
			S	R119		•	•	•	•	•		•	•	•	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	H25
			T A	PR354 PR364		•									_	_	_	Opt. Opt.	_	_	_	Opt. Opt.	_	_	Std. Std.	_	_		_				F10 F10
			N - L	PR10		-		•											_	_	_	Opt.	_	_	Std.				_		_	Opt.	F12
			E S S	PR11				•							_		_			_	_	Opt.	_		Std.	_						Opt.	F12

* Will follow Pilot Regulator setting.



Catalog 0700P-8 Parker Pneumatic

Air Preparation Products **Product Selection**

Product Selection Chart

Basic							Port	Size										-		S	pring	Ranç	je			-		-				
Unit		Series	1/8	1/4	3/8	1/2	3/4	1	1- 1/4	1- 1/2	2	2- 1/2	8	15	20	25	30	40	50	60	100	120	125	140	150	160	175	200	232	250	Page	Product Index
P	2	P31P		•									—	—	—	—	Opt.	—	—	—	—	—	—	_	Std.	—	—	—	—	—	B32	luct
0 P	ו	EPP4		•		•							—	—	_	_	_	—	_	—	_	_	_	_	_	—	—	—	—	_	K82	Prod
R	r	P32P				•							—	—	—	_	Opt.	—	—	—	—	_	—	_	Std.	—	—	—	—	_	B32	
	וכ	PAR-15				•							—	-	—	—	—	—	—	—	_	_	_	—	_	—	Std.	—	Opt.	_	K74	
A	A	P3Y					•	•					_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	C12	nct
		51R		•									_	_	_	_	_	_	_	_	_	_	_	Opt.	_	Std.	_	_	_	_	K42	Product
D		52R		•	•	•	•							_				Opt.	_	_	_	_	_		_	Std.	_	_	_		K44	
A	4	53R					•	•	•									Opt.								Std.					K46	, T)
L	-																	-													K48	Product Coloction Guido
R E S	2	54R								•	•			_	_			Opt.				_				Std.			_			Pro
G E U N	E	27R		•										Opt.	_		Opt.	_		Opt.		_	Std.		_	-	_	-	_	_	K14	C C C
		R216		•	•								Opt.	—	Std.	—	—	—	Opt.	—	—	_	—		—	—	—	—	—	—	K38	٥
T 0		P3RA302		•									_	-	—	—	Opt.	—	_	—	Std.	-	—	—	—	—	—	—	—	_	K90	eerir
R S		P3RA102		•									—	-	-	_	Opt.	—	-	Opt.	—	-	_	—	Std.	—	-	—	-	_	K92	Engineering
R	Εļ	P3RA102BP		•									_	_	—	_	Opt.	—	_	Opt.	_	—	_	_	Std.	_	—	—	—	_	K94	
	I	P3RA171		•									_	_	_	_	Std.	_	_	_	_	_	_	_	_	_	_	_	_	_	K96	
S		P3EA632		•										_	_		_	_	_	Opt.	_	_	_		_	_	_	_	_		K98	
0 N		P3BA208		•										_								_									K100	
	+	P3BA45		•																											K102	
-															0					0			0.11									
W A	4	20R	•	•										_	Opt.			_	_	Opt.	_	<u> </u>	Std.		_	_	_	_	_		K104	
E	E	R24	•										_	_	Opt.	_	—		—	Opt.	_	_	Std.	_	—	—	—	_	—	—	K106	
R	2	R46	•		•								—	-	Opt.	_	—	—	—	Opt.	—	-	Std.	_	—	-	—	-	—	_	K108	





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Product Index Engineering Data

Product Index

Product Selection Guide

Engineering Data

(Revised 12-11-19)

Air Preparation Products Product Selection

Product Selection Chart

Basic	Series				P	ort S	ize					Bowls		Bowl		emen Nicror		Adsorber				Spri	ng Ra	ange				Pag
Unit	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	Ausorber	15	25	30	60	110	125	175	200	250	Paç
	P31E		•								٠	•	_	0.4 oz.	Std.	—	-	—	—	—	Opt.	Opt.		-	—	—	Opt.	B4
	14E	•	•								•	•	_	1 oz.	Std.	_	Opt.	Opt.	Opt.	_	Opt.	Opt.		Std.	—	—	—	D
F	B34	•	•								٠	•	_	1 oz.	Std.	Opt.	_	_	_	Opt.	_	Opt.		Std.	_	—	—	J
L T	05E		•	•							٠	_	_	2 oz.	_		Std.	_	_	_	Opt.	Std.		Std.	—	Opt.	—	E
E R /	P32E		•	•	•						٠	•	•	1.7 oz.	Std.	—	—	—	_	—	Opt.	Opt.		Std.	—	—	Opt.	B
RE	06E		•	•	•						٠	•	•	4.4 oz.	Opt.		Std.	—	_	_	_	Std.		Std.	—	—	Opt.	E
G U L	07E				•	•					٠	•	٠	7.2 oz.	Opt.	_	Std.	Opt.	_	_	_	Std.		Std.	_	—	Opt.	E
A T O	P33E				•	•					•	•	٠	2.8 oz.	Std.	_	—	_	_	_	Opt.	Opt.		Std.	—	—	Opt.	E
R S	РЗҮ					•	•				•	•	•	4.4 oz.	Std.	_	_	_	_	_	_	_		_	Std.	—	Opt.	(
	P3NE					•	•		•		_	_	•	18 oz.	_	_	Std.	_	_	_	_	_		Std.	—	—	Std.	(
	12E				•	•					_	•	_	7.2 oz.	6 Std. 0.01	_	10 Opt. 1.0	_	_	-	_	Opt.		Std.	_	_	Opt.	E
M I C	15L		•	•							•		•	2 oz.				Canno	ot be 1	filled (under	press	sure	I	1	1		1
R O M	16L		•	•	•						•	•	•	2.6 oz.				Canno	ot be f	filled (under	press	sure					1
I S T	17L			•	•	•					•	•	•	4.9 oz.				Canno	ot be f	filled (under	press	sure					
	02L		•	•							Alu	minum I	Body	0.25 oz.				Canno	ot be 1	filled	under	press	sure					,
	P31L		•								•	_	•	0.6 oz.				Can	be fil	led ur	nder p	ressu	re					1
L U B	04L	•	•								•	•	_	1 oz.				Canno	ot be 1	filled	under	press	sure					[
R I	P32L		•	•	•						•	_	٠	4.09 oz.				Can	be fil	led ur	nder p	ressu	re					E
C A T	06L		•	•	•						٠	•	•	2.9 oz.				Can	be fil	led ur	nder p	ressu	re					I
0 R M	07L				•	•					٠	•	٠	6 oz.				Can	be fil	led ur	nder p	ressu	re					I
S I S T	P33L				•	•					٠	_	٠	6.1 oz.	oz. Can be filled under pressure						E							
	PL10				•						Sta	unless S	Steel	4.0 oz.							I							
	РЗҮ					•	•				•	—	_	16.9 oz.	· · · · · · · · · · · · · · · · · · ·							(
	P3NL					•	•		•		_	—	•	18 oz.								(
	L606					•	•		•		_	•	•	16 oz. (W) 32 oz. (E) 64 oz. (G)	z. (W) z. (E) Can be filled under pressure z. (G) Std. Can be filled under pressure								H					
	09L									•	_	_	•	1 qt. Std. 3 qt. Opt.				Can	be fil	led ur	nder p	ressu	re					ŀ





Catalog 0700P-8 **Parker Pneumatic**

Air Preparation Products **Product Selection**

Product Selection Chart

			Neurober			Port Size Bowls Elements (Micron) Spring Range										Α													
Ba Ur		Series	Number of Components	1/8	1/4	3/8	1/2	3/4	1	1- 1/4	1- 1/2	2	Poly	Metal	Metal SG	5	40	0.01	1.0	Adsorber	15	30	60	125	175	232	250	Page	ndex Data
		P31	Multi		•								•	•		Std.	-	Opt.	Opt.	Opt.	_	Opt.	Opt.	Std.	—	-	Opt.	B56	Product Index Engineering Data
		P32	Multi		•	•	•						•	•	•	Std.	—	Opt.	Opt.	Opt.	—	Opt.	Opt.	Std.	_	-	Opt.	B57	Prod
		06H/16H	2		•	•	•						•	•	•	Opt.	Std.	-	—	—	—	_	Opt.	Std.	_	-	Opt.	E44	E
		06B/16B	3		٠	•	•						•	•	•	Opt.	Std.	—	—	_	_	_	Opt.	Std.	_	-	Opt.	E44	
	M 0	07H/17H	2				•	•					•	•	•	Opt.	Std.	—	—	—	_	_	Opt.	Std.	_	-	Opt.	E44	luct ex
	D U L	07B/17B	3				•	•					•	•	•	Opt.	Std.	—	—	—	—	_	Opt.	Std.	—	—	Opt.	E44	Product Index
	ĀR	P33	Multi				•	•					•	•	•	Std.	—	Opt.	Opt.	Opt.	—	Opt.	Opt.	Std.	—	—	Opt.	B58	
C		P3YCA	2					•	•				•	•	•	Std.	—	-	—	_	—	—	—	_	Std.	Opt.	—	C18	ide
0 M		P3YCB	3					•	•				•	•	•	Std.	_	-	—	_	—	—	—	_	Std.	Opt.	—	C18	Product Selection Guide
B O		P3NCA	2					•	•		•		—	_	•	_	Std.	-	—	_	—	—	—	Std.	—	-	Opt.	G14	Pro lectic
S		P3NCB	3					•	•		•		—	_	•	_	Std.	-	—	_	_	_	—	Std.	—	-	Opt.	G14	Se
		14G	2	•	٠								•	•	_	Std.	Opt.	—	—	—	Opt.	Opt.	Opt.	Std.	_	—	_	D12	bu
		14A	3	•	•								•	•	_	Std.	Opt.	-	—	_	Opt.	Opt.	Opt.	Std.	—	-	—	D12	jineeri Data
	N I	06G/16G	2		٠	•	•						•	•	•	Opt.	Std.	—	—	—	—		Std.	Std.	_	—	Opt.	E42	Engineering Data
	P P L	06A/16A	3		•	•	•						•	•	•	Opt.	Std.	—	—	—	_		Std.	Std.	_	—	Opt.	E42	
		07G/17G	2				•	•					•	•	•	Opt.	Std.	_	_	_	_	_	Std.	Std.		—	Opt.	E42	
		07A/17A	3				•	•					•	•	•	Opt.	Std.	_	—	_	_	_	Std.	Std.	—	-	Opt.	E42	
		C628	3					•	•		•		_	•	•	Opt.	Std.	-	—	_	—	_	—	Std.	—	-	Opt.	H34	

Basic Units	Series	Port Sizes	Flow Rates	Pr	essure dew	points		trical rement	Dryer Application	Page
			(scfm)	37-50°F	-40°F	-40 to -100°F	Yes	No		Ű
Disposable Inline Desiccant	DD10-02	1/4"	15	_	Std.	_	_	•	Point of use, intermittent use	M6
Inline Desiccant	DD	1/4" to 1"	15, 30, 60	_	Std.	_	_	٠	Point of use, intermittent use	M7
Regenerative Desiccant Dryer	DAS	3/8"	3 - 20	_	Std.	_	•	_	Compact, lightweight, point of use	M9
Heatless Desiccant Dryer	PTW	1/2" to 2"	25 - 800		Std.	Opt.	٠	_	Specific where very low pressure dewpoints are required	M13
Refrigeration Dryer	PRD	1/2" to 6" flange	10 - 2,400	Std.	_	_	٠	_	General industrial use	M2





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

Catalog 0700P-8 Engineering Data

(Capacity Co-efficient). Cylinder Area

ata	$\mathbf{C}v = (\text{See Table 1})$	(ln.)	(Table 2)	()
	S	troke Time (sec.) x 28.8	
	Let's work through an e	example:		
Product Index	We want to extend a 3 stroke in one second, a 80 PSI to do the work.	and we have	a supply pressur	
	Cylinder Area for a 3-1.	/4" Bore, fro	om Table 1	8.30 sq. in.
	Cylinder Stroke			12 in.
Sel	Stroke Time Required i	n Seconds.		1 sec.
Product Selection Guide	Compression Factor at	80 PSI, froi	m Table 2	6.4
Product ection Gu	"A" Constant for 80 PS	l, from Table	ə 2	
Gui	Substituting in the form	nula, we hav	e:	
ide	$\mathbf{C}_{V} = \frac{8.}{2}$	30 x 12 x 6. 1 x 28.	4 00	
Engir D	Any valve, therefore, who our cylinder the specific		,	
Engineering Data	Choosing the Valve " Your next step is to cho For a quick quide to va	oose a basid	0	o the job.

you'll ensure the valve you select will do the job. Converting the Job Requirements Into Cv

(Sq. In.) X Stroke X

Saving Money and Space by Sizing Your Valves Properly

Parker Hannifin line. You can "plug" your requirements into the following simple formula, and determine the Cv needed to do the job. By not oversizing, you'll save space and money, and

This catalog gives you a flow rating (Cv) for each valve in the

Cylinder

Compression

Factor

"A"

X (Table 2)

Choosing the Valve "Series"

Your next step is to choose a basic valve design to do the job. For a quick guide to valve designs, see Table 3.

Having selected the basic valve design, consult the Capacity Co-efficient (Cv) tables which describe the individual valve capacities.

Selecting the Valve Model, Options and Accessories

Having determined Cv, series, port size, flow-path configuration (pre-determined by circuit design), and actuation method, you're ready to choose the *exact* valve model number.

Read the pertinent catalog pages; note the exact model numbers, options and accessories you want. Then phone or write your Parker Hannifin air valve distributor. They will give you prompt, accurate service.

Note: Need circuit design help? Contact your local Parker Hannifin distributor. They are backed up by our regional Sales Engineers and offices. Between them, you'll find answers to all of your questions.

Table 1

Effective Square-Inch Areas for Standard-Bore-Size Cylinders

Bore Size	Cylinder Area (Sq. In.)	Bore Size	Cylinder Area (Sq. In.)
3/4"	.44	4"	12.57
1"	.79	4-1/2"	15.90
1-1/8"	.99	5"	19.64
1-1/4"	1.23	6"	28.27
1-1/2"	1.77	7"	38.48
1-3/4"	2.41	8"	50.27
2"	3.14	10"	78.54
2-1/2"	4.91	12"	113.10
3-1/4"	8.30	14"	153.94
3-5/8"	10.32		

Air Preparation Products **Selection Guide**

Table 2

Compression Factors and "A" Constants

Inlet	Compression	"A" Constants for Various Pressure Drop*				
Pressure (psig)	Factor	2 PSI △P	5 PSI △P	10 PSI ∆P		
10	1.6	.152	.103			
20	2.3	.126	.084	.065		
30	3.0	.111	.073	.055		
40	3.7	.100	.065	.048		
50	4.4	.091	.059	.044		
60	5.1	.085	.055	.040		
70	5.7	.079	.051	.037		
80	6.4	.075	.048	.035		
90	7.1	.071	.046	.033		
100	7.8	.068	.044	.032		
110	8.5	.065	.042	.030		
120	9.2	.063	.040	.029		
130	9.9	.061	.039	.028		
140	10.6	.058	.037	.027		
150	11.2	.057	.036	.026		
160	11.9	.055	.035	.025		
170	12.6	.053	.034	.024		
180	13.3	.052	.033	.024		
190	14.0	.051	.032	.023		
200	14.7	.050	.032	.023		

Note: Use "A" constant at 5 PSI △P for most applications. On very critical applications, use "A" at 2 PSI △P. You will find in many cases, a 10 PSI △P is not detrimental, and can save money and mounting space.

GT • P2) P2 where T is for * Tabulated values are the solution of 22.48 68°F and G =1 for Air.

Table 3

Characteristics of the Major Valve Designs

A. Poppet 3-Way and 4-Way B. Spool Valves (WCS)	 High flow capacities Minimum lubrication requirements Fast response Self-cleaning poppet seats Pressures of 15 to 150 psig (modifications for vacuum to 250 psig) Low friction
3-Way and 4-Way	 Lower operating pressures Fast response Less wear Long Cycle Life - Under pressure, radial expansion of the seal occurs to maintain sealing contact with the valve bore Non-Lube Service - No lubrication required for continuous valve shifting Bi-Directional Spool Seals - Common spool used for any pressure, including vacuum
C. Packed Bore 4-Way	 Wide range of flow capacities Wide range of flow-path configurations Pilot-operated models available Pressures of vacuum to 150 psig
D. Rotary or Reciprocating Disc 4-Way, manually operated	 Inexpensive Versatility in manual actuation

Cv - Capacity Co-efficients (sometimes called Flow Factors). Each flow path through the valve has its own Cv value. All Cv ratings for each valve cataloged on this page are listed on the front side of this sheet.

$\frac{Q}{22.48}\sqrt{\frac{GT}{(P_1 - P_2)P_2}}$	Q = Flow in Standard Cubic Feet per minute (14.7 PSIA at 60°F) P ₁ = Inlet Absolute Pressure (gauge pressure + 14.7) P ₂ = Outlet Absolute Pressure (gauge pressure + 14.7) Note: P ₂ must be greater than .53 x P ₁
Q x "A" (Table 2)	$ \begin{array}{ll} G = & \text{Specific Gravity of flowing medium (Air, G = 1)} \\ T = & \text{Absolute Temperature of Air (460 + °F.)} \end{array} $

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Cv =

Cv =

Symbol

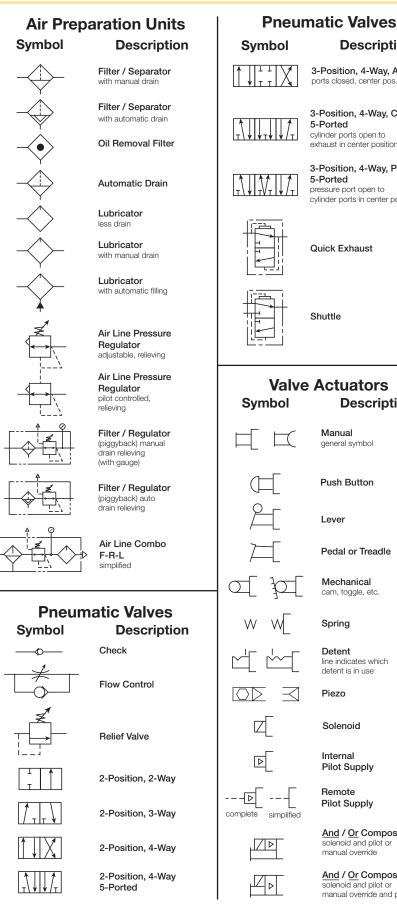
Description

A9

For inventory, lead times, and kit

lookup, visit www.pdnplu.com

EC



3-Position, 4-Way, APB ports closed, center pos.		Standard double acting	dex ata
3-Position, 4-Way, CE 5-Ported cylinder ports open to		Single Acting	Product Inde Engineering Data
exhaust in center position 3-Position, 4-Way, PC		Double Rod	Pro Engine
5-Ported pressure port open to cylinder ports in center position		Spring Return	
Quick Exhaust		Ram Type	Product Index
QUICK EXHAUST		Telescope	<u>م</u>
Shuttle		Tandum	ct Guide
Shuttle		Duplex	Product Selection Guide
	Lines and	d Functions	Sel
e Actuators	Symbol	Description	-
Description		Solid Line – Main Line	Ling
Manual		Dashed Line – Pilot Line	ineel Data
general symbol		Dotted Line – Exhaust or Drain Line	Engineering Data
		Center Line – Enclosure Outline	
Push Button		Lines Crossing	
Lever	+ -	(90° intersection not necessary)	
Pedal or Treadle	+ _{→+} →	Lines Joining (90° intersection not necessary)	
	_ <u></u>	Lines Joining	
Mechanical cam, toggle, etc.	→	Flow Direction hydraulic medium	
Spring		Flow Direction gaseous medium	
Detent line indicates which		Energy Source	
detent is in use		Line with Fixed Restriction	
Piezo Solenoid		Line with Adjustable Restriction	
	\sim	Flexible Line	
Internal Pilot Supply	~ —×	Plugged Port, Test Station, Power Take-off	
Remote Pilot Supply	→ + ← connected → + ⊢← disconnecte	Quick Disconnect Without Checks	
And / Or Composite solenoid and pilot or manual override		Quick Disconnect With Checks	
And / Or Composite solenoid and pilot or manual override and pilot	-O-+	Quick Disconnect With One Check	

Cylinders

Description

Parker Hannifin Corporation Pneumatic Division

Richland, Michigan www.parker.com/pneumatics Product Index

<u>/ CAUTION:</u>

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.

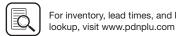
TO CLEAN POLYCARBONATE COMPONENTS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Metal bowl guards are recommended for all applications.

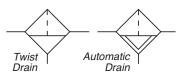
/!\ CAUTION:

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.





Filters



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

Filter Selection

- 1. Determine maximum system flow requirements.
- 2. Determine maximum allowable pressure drop at rated flow in scfm.
- 3. Refer to flow chart and select filter pipe size by choosing curve that offers minimum pressure drop at desired flow in scfm. For optimum performance, a 2 to 5 psig pressure drop should be selected.

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:

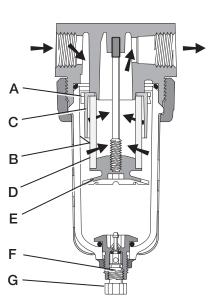
Air enters at inlet port and flows through deflector plate (A) which causes a swirling action. Liquids and coarse particles are forced to the bowl interior wall (B) by the centrifugal action of the swirling air. They then carry down the bowl wall by the force of gravity. Shroud (C) assures that the proper 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.

Second Stage Filtration:

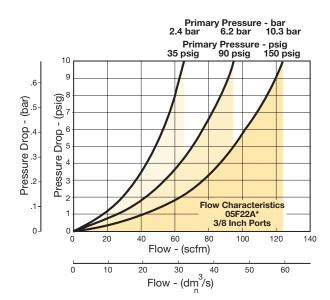
After liquids and large particles are removed in the first stage of filtration, the air flows through element (D) where smaller particles are filtered out and retained. The filtered air then passes downstream. Collected liquids and particles in the "quiet zone" should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by the twist drain (F) which is actuated by twisting knob (G) counterclockwise. On the 09 Series, unscrew the drain valve (F) slightly until the liquid begins to drain.

Air Preparation Products **Particulate Filter**

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.



Reading Flow Charts to Size Filters





Catalog 0700P-8 **Engineering Data**

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.

Media Specifications

G r	Coalescing Efficiency	Maximum Oil		Pressure Drop (PSID) ² @ Rated Flow		
a d e	0.3 to 0.6 Micron Particles		Micron 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	

D.O.P. = Dioctylphthalate

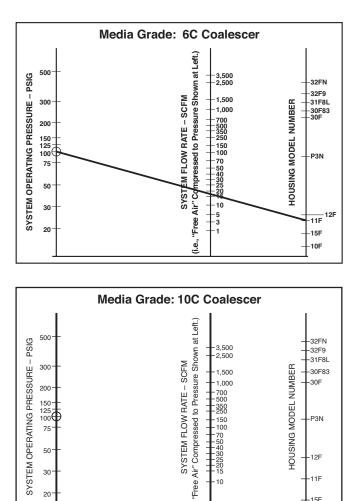
Element Selection

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.

Air Preparation Products Coalescing Filters

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.



1,000

- 700 - 500 - 350 - 250

150 100

10

P3N

12F

-11F

15F

10F

(i.e., '

Q

200

150 125 100

75

50

30

20

Product

Index

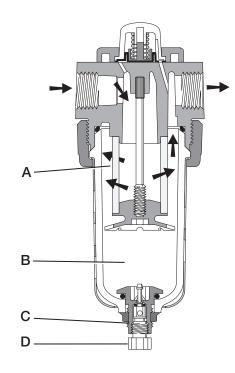
Coalescing Filters (Oil Removal)

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 0.01 ppm 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 end-use 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



Air Preparation Products

Coalescing Filters

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.

Semi Automatic Drain

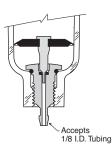


Accepts 3/16 I.D. Tubing

(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.

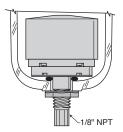
Automatic Pulse Drain



(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.

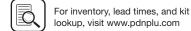
Automatic Float Drain



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.





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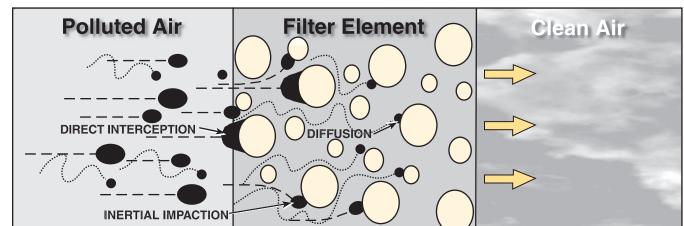
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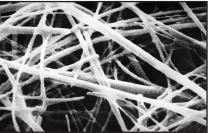
Coalescing Filters

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.

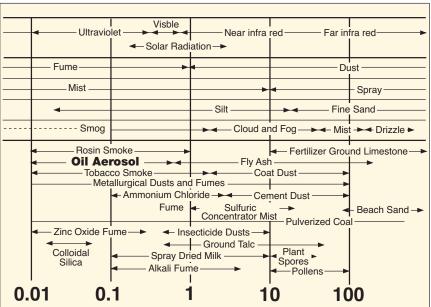


Above: Clean borosilicate microfiber seen at a magnification factor of 3900. *Right:* The same filter material in a contaminated state at the same degree of magnification.



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



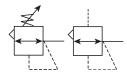
To assist in understanding the parameters of filtration, refer to this pollution size comparison chart. Look at the size of a major contaminant, oil aerosol! It is in the region of 0.01 - 0.8 micron. Tobacco smoke is also a liquid aerosol in a similar size band 0.01 -1.2 micron. Observe the smoke test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

-Parker 🖸

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Regulators

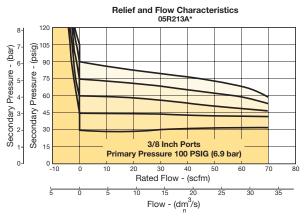


Air regulators are designed to provide quick response and accurate pressure regulation for the most demanding industrial applications.

Regulator Selection

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

Reading Flow Charts to Size Regulators



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

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.



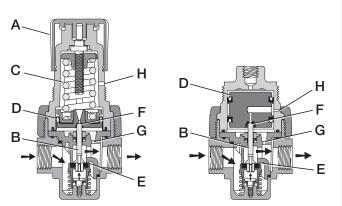


Air Preparation Products **Regulators**

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 wide variety of applications where reduced pressure is highly desirable for energy conservation, safety requirements, air circuit control and air instrumentation.



Operation

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

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

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

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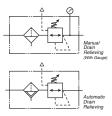
Product Index Engineering Data

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Filter / Regulators

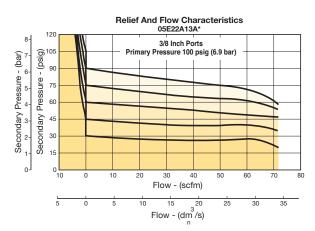


Integral Filter / Regulators are an excellent choice where accurate pressure regulation and high moisture removal efficiency are required in a space saving package.

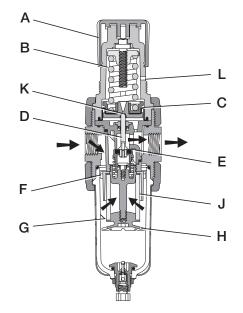
Filter / Regulator Selection

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

Reading Flow Charts to Size Filter / Regulators



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



Operation

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.)

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

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.





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Micro-Mist Lubricators

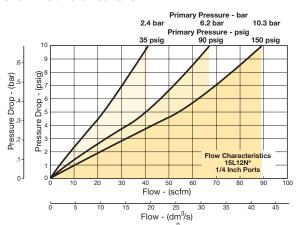


Micro-Mist Air Lubricators are designed to provide optimum and uniform lubrication with fine micro-mist particles of 2 micron or smaller, to pneumatic components even through complex piping arrangements.

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 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.

Air Preparation Products **Micro-Mist Lubricators**

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.

Operation

В

D

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

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

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

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



Mist Lubricators



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.

Lubricator Selection

Reading Flow Charts to Size

- 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.

Mist Lubricators Primary Pressure - bar 6.2 bar 10.3 bar 2.4 bar Prima essure - psig 35 psig 150 psig 90 psig (psig) Pressure Drop - (bar) Pressure Drop -Flow Characteristics 06L32B* 1/2 Inch Ports 0 100 110 120 130 140 90 Flow - (scfm) 0 10 15 20 25 30 35 40 45 50 55 60 65 70 5 Flow - (dm³/s)

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

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

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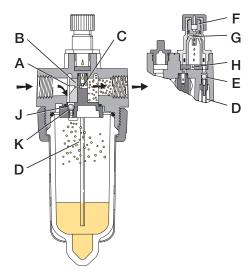
F442 Oil



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

Air Preparation Products **Mist Lubricators**

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.

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.)



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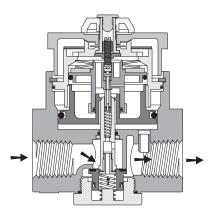
Product Selection Guide

Dial Regulator

The Dial Regulator is a constant bleed, piston operated regulator. The pilot controlled pressure reducing valve provides exceptionally high air flow with steady pressure control and minimal secondary pressure drop. The non-rising adjustment knob provides quick selection of the desired secondary pressure in less than one full turn. The adjustment knob also can serve as the pressure indicator thereby eliminating the need for a pressure gauge.

This regulator is specifically designed for applications requiring more accurate air circuit control, high air flow capacity with flat performance curves and quick regulator adjustment. The regulator can be used as a conventional regulator for standard air circuits or as a pilot regulator to provide pressure to the control chamber of a pilot operated (slave) regulator.

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



Operation

To set the regulator, turn the large dial adjustment knob to the desired secondary set pressure. This opens the pilot valve seat allowing air flow into the control chamber which forces the lower piston downward against the relief seat and opens the main valve. At the same time, the air in the control chamber forces the upper piston upward against Belleville springs which closes the pilot valve seat when the set pressure is attained. Secondary pressure in the chamber is now balanced against the control pressure through the lower piston. If demand flow increases, the constant control pressure will force the lower piston and the main valve further downward, and allow more flow downstream. A higher than desired secondary pressure will force the lower piston upward, closing the main valve seat and opening the main relief valve seat thereby allowing air to relieve to the atmosphere. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

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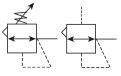
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Catalog 0700P-8 Engineering Data

Precision Regulators

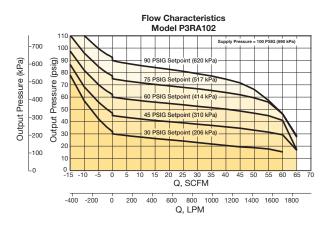


Air regulators are designed to provide quick response and accurate pressure regulation for the most demanding industrial applications.

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

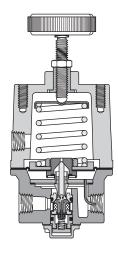


Once the required flow is determined for a pneumatic application the regulator or filter/regulator can be selected by using the flow chart. The chart serves two different purposes. To read the flow, use the right side of the chart. To read the relief characteristics use the left side of the chart. When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

Air Preparation Products **Precision Regulators**

Precision Regulator

For use in applications that require reliable performance and accurate pressure control. This type of regulator is generally used for material handling systems, flow and temperature controllers, critical air control circuits, medical and scientific test equipment, and valve positioners.



Operation

Set the desired secondary pressure by turning the adjustment knob clockwise. This action increases the regulating spring force against the top of the diaphragm disc. When the spring force above exceeds the air pressure beneath the diaphragm, it is transmitted by the valve stem and opens the valve. Airflow through the regulator now occurs.

A precisely designed and positioned aspirator tube constantly transmits the secondary pressure to the under side of the diaphragm so that during flow conditions any pressure loss can be quickly compensated for. When flow is no longer required, the outlet pressure increases slightly, allowing the diaphragm to rise, the valve to close, and set pressure to be maintained.

On self-relieving models, if outlet pressure should increase above the set pressure, the diaphragm will rise therefore opening the relief seal between the diaphragm and the valve. The excess outlet pressure is then vented through the diaphragm orifice into the bonnet and subsequently to the atmosphere through an orifice in the bonnet. For best performance, regulated pressure should always be set by increasing the pressure to the desired setting.

\land 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.



a Product

Product Selection Guide

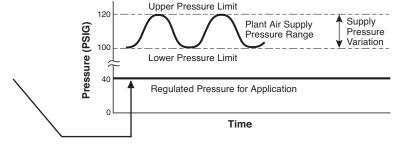


Precision Regulators Application Guide

Pneumatic pressure regulators are designed to provide a constant pressure output from a fluctuating supply pressure – much the way an electronic voltage regulator works. Pressure regulators provide varying degrees of accuracy with regard to their reduced pressure output. General Purpose pressure regulators work for most fluid power applications. However, for more pressure-critical applications precision regulators can provide the customer with the control they need.

A partial listing of things that can potentially cause regulator output pressure variation are:

- Temperature changes
- Inlet pressure changes
- Variations in flow
- Excess downstream pressure
- Cycling
- Time
- Leakage



Who needs precision regulators?

Design level applications:

When designing a pneumatic system it is important to determine not only the air flow that the application will require but also the acceptable level of pressure variation. Some pneumatic applications cannot tolerate fluctuations in pressure. These applications can include static situations with only a steady pressure maintained, or dynamic flow situations involving any number of changing variables in play while trying to maintain a constant pressure.

Problem solving device for existing applications:

Sometimes an existing pneumatic application does not meet the customer's needs with regards to pressure control and/or stability. Any or all of the variables listed above can cause issues with pressure stability.

As applications are expanded, added on to, or modified the pressure and flow requirements can change.

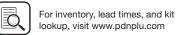
How do precision regulators differ from general purpose pneumatic regulators?

Examples >	High Precision Regulators P3RA302, P3RA102, P3RA102BP, P3RA171	Semi-Precision Regulators 27R, Dial Regulators, R216	General Purpose Regulators 05R, 06R, 07R, P3NR, R119	
Sensitivity: Reduced pressure repeatability/variation under no-flow condition	.005 to .010 psig (1/8" to 1/4" of water column)	1 to 2 psig	3 to 4 psig	
Regulator's ability to control back pressure accurately: *key for cylinder applications	Begins to relieve at .005 to .010 psig overpressureBegins to relieve at .5 to 2 psig overpressure		Begins to relieve at 5 to 10 psig overpressure	
Regulator's ability to maintain set pressure under varying flow, input pressure, temperature conditions:	High	Medium	Standard	
Constant Bleed - does the regulator constantly bleed a small volume of air to the atmosphere to maintain stability?	Yes	Yes	No	

1" Water Column = .0360 PSI

1 psi = 27.7612 Inches Water Column





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Application Chart

A

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Product Selection Guide

Engineering Data

Air Gauging	Manufacturers of Air Gauging Equipment.
Anesthesia Equipment	Manufacturers
Calibration Stands	Similar to Test Stands
Clamping Pressure Control	End Effect Grippers, Roll Loading
Control Panels	Manufacturers and Users
Coordinate Measuring Machines	Manufacturers use in Force Counterbalance Applications in Z-axis
Dispensing Equipment	Adhesive, Paint, or any other form of Liquid or Gas
Food Process Machinery	Manufacturers
Gas Analyzers	Used for Reference and Calibration Air Pressures
Ink or Paint Robotics Spraying Systems	Manufacturers use to Maintain an Even Pressure on System
Leak Testing Equipment	Manufacturers of Equipment that Detects Leaks (i.e., Plastic Bottles)
Medical Equipment	Manufacturers that Utilize for Blood Processing and Sampling as Example
Oxygen Ventilators	Manufacturers
Pharmaceutical Process Machinery	Pill or Tablet Making Machines
Phone Cable Pressurization Systems	Manufacturers
Polishing Machinery	Used to Maintain Even Pressure on Polishing Head
Semi-conductor Manufacturing Machinery	Manufacturers
Smoke Stack Analyzers	Used for Reference and Calibration Air Pressures
Soil or Environmental Analysis Equipment	Used for Reference and Calibration Air Pressures
Tank Blanketing	Maintain Pressure on Top Level of a Tank or Storage Vessel
Test Equipment	Similar to Test Stands
Test Stands	Manufacturers of Test Stands, Laboratory Test Stands,
lest Stanus	Engineering Test Stands, Production Test Stands
Tool Balancers High Application. Used as helps suspend the when not in use.	Manufacturers of Tool Balancers, Manipulators, and Articulating Arms use Relief Capacity Precision Regulators in a Force-balancing part of a Pneumatic Counter-balance System, the Regulator tool in the air and then makes it easy to move out of the way
Web Tensioning	Machinery Builders for Printing Presses, Paper Converting, Packaging, Textiles, Plastics. Primarily Unwind Stands and Rewind Stands.
ystem Integrators	
	Anvenchushin Designe of Dusingto that Automate Drasses
Automation Integrators	Anyone Involved in Designs or Projects that Automate Processes
nergy Controls Systems	
HVAC	Anyone who would be involved in Designs that would include Damper and Louvre Control for HVAC Applications
nd Users	
Instrumentation Supervisors	
Instrumentation Technicians	
Project Engineers	
Store Room Supervisors	
80	
RO	
Chemical	
Petrochemical	
Pulp & Paper	
Food & Drug	
Refineries	
Power	
Mining	



Q

Parker is protecting your most valuable assets... Δ • This applies to the servicing and maintenance of a machine or equipment. Product Index Engineering Data Any new, replacement, repair, or renovation to a machine must include an energy isolation device that can accept a lock out device. vw.osha.gov Lock out devices should not be used for any other purposes Verification of energy isolation is required Standard 190.147 • This applies to all machines Product Index • Lockout / tagout is the primary method of hazardous energy control ANSI Machines shall be designed, manufactured, supplied, and installed with energy isolating devices Selection Guide Standard Z244 Product • B11.0 applies to a broad range of machines, B11.TR6 is specific to machine tools, and B155.1 is specific to packaging and converting machines **B**11.0 • Energy isolating device shall: Engineering B11.TR6 - Be capable of being locked in the OFF position only Data - Be easy to operate - Have an exhaust port equal or greater than its supply port B155.1 - Have a pressure indicator that is visible to an operator to verify line is relieved of pressure

...By offering the best in pneumatic safety for machine maintenance:



Traditional Ball Valve

Not a dedicated energy isolation device *

- Not a full exhaust port
- No verification of line exhaust *
 - Can be locked ON 🗱
 - Not easily identifiable *



Parker Solution

- ✓ Dedicated energy isolation device
- ✓ Full exhaust port
- ✓ Verification of line exhaust
- ✓ Only lockable in OFF position
- ✓ Easily identifiable



Compressed air and its purification from generation to application

Compressed air is an essential power source that is widely used throughout industry. This safe, powerful and reliable utility can be the most important part of your production process. However, your compressed air will contain water, dirt, wear particles and even degraded lubricating oil which all mix together to form an unwanted condensate. This condensate often acidic, rapidly wears tools and pneumatic machinery, blocks valves and orifices causing high maintenance and costly air leaks. It also corrodes piping systems and can bring your production process to an extremely expensive standstill!

The quality of air required throughout a typical compressed air system can vary.

Product Index Engineering Data

Product Selection Guide It is highly recommended that the compressed air is treated prior to entry into the distribution system as well as at each usage point or application.

This approach to system design provides the most cost effective solution to system purification as it not only removes the contamination already in the distribution system, it ensures that only the most critical areas receive air treated to the highest level.

In many instances the compressed air system will be supplying air to more than one application and although the purification equipment specified in the compressor room would remain unchanged, the point of use protection will vary depending upon the air quality requirements of each application.

In many cases this action alone is not enough, as modern production systems and processes demand an even higher level of air quality. Where required, "point of use" filtration, refrigeration or desiccant air dryers can provide the correct air quality, without the need for drying the complete compressed air installation, which can be both costly and totally unnecessary.

Sources of contamination found in a compressed air system

Contaminants in a compressed air system can generally be attributed to the following:

The quality of air being drawn into the compressor Air compressors draw in a large volume of air from the surrounding atmosphere containing large numbers of airborne contaminants.

The type and operation of the air compressor The air compressor itself can also add contamination, from wear particles to coolants and lubricants.

Compressed air storage devices and distribution systems The air receiver and system piping are designed to store and distribute the compressed air. As a consequence, they will also store the large amounts of contaminants drawn into the system. Additionally, piping and air receivers will also cool the moist compressed air forming condensate which causes damage and corrosion.

Atmospheric dirt

Atmospheric air in an industrial environment typically contains 183 million per yd^{3 (140} million per m³) of dirt particles. 80% of these particles are less than 2 microns in size and are too small to be captured by the compressor intake filter, therefore passing directly into the compressed air system.

Air Preparation Products **Sources of Contamination**

Water vapor, condensed water and water aerosols

Atmospheric air contains water vapor (water in a gaseous form). The ability of compressed air to hold water vapor is dependent upon it's temperature. The higher the temperature, the more water vapor that can be held by the air. During compression, the air temperature is increased significantly, which allows it to easily retain the incoming moisture. After the compression stage, air is normally cooled to a usable temperature. This reduces the airs ability to retain water vapor. resulting in a proportion of the water vapor being condensed into liquid water which is removed by a condensate drain fitted to the compressor after-cooler. The air leaving the after-cooler is now 100% saturated with water vapor and any further cooling of the air will result in more water vapor condensing into liquid water. Condensation occurs at various stages throughout the system as the air is cooled further by the air receiver, piping and the expansion of valves, cylinders, tools and machinery. The condensed water and water aerosols cause corrosion to the storage and distribution system, damage production equipment and the end product. It also reduces production efficiency and increases maintenance costs. Water in any form must be removed to enable the system to run correctly and efficiently.

Rust and pipescale

Rust and pipescale can be found in air receivers and the piping of "wet systems" (systems without adequate purification equipment) or systems which were operated "wet" prior to purification being installed. Over time, this contamination breaks away to cause damage or blockage in production which can also contaminate final product and processes.

Micro-organisms

Bacteria and viruses will also be drawn into the compressed air system through the compressor intake and warm, moist air provides an ideal environment for the growth of microorganisms. If only a few micro-organisms were to enter a clean environment, a sterile process or production system, enormous damage could be caused that not only diminishes product quality, but may even render a product entirely unfit for use and subject to recall.

Liquid oil and oil aerosols

Most air compressors use oil in the compression stage for sealing, lubrication and cooling. During operation, lubricating oil is carried over into the compressed air system as liquid oil and aerosols. This oil mixes with water vapor in the air and is often very acidic, causing damage to the compressed air storage and distribution system, production equipment and final product.

Oil vapor

In addition to dirt and water vapor, atmospheric air also contains oil in the form of unburned hydrocarbons. The unburned hydrocarbons drawn into the compressor intake as well as vaporized oil from the compression stage of a lubricated compressor will carry over into a compressed air system where it can cool and condense, causing the same contamination issues as liquid oil.



Compressed air quality standards - ISO 8573

ISO 8573 is the group of International standards relating to the quality of compressed air and consists of nine separate parts. Part 1 specifies the quality requirements of the compressed air and parts 2 - 9 specify the methods of testing for a range of contaminants.

ISO 8573.1 : 2010 is the primary document used from the ISO 8573 series and it is this document which allows the user to specify the air quality or purity required at key points in a compressed air system. ISO8573-1 lists the main contaminants as Solid Particulate, Water and oil. The purity levels for each contaminant are shown in separate tables, however for ease of use, this document combines all three contaminants into one easy to use table.

	Solid Particulate			Water		Oil	
IS08573-1:2010	Maximum number of particles per m ³ Concentratio			Concentration	Vapor	Liquid	Total oil (aerosol, liquid and vapor)
	0.1 - 0.5 micron	0.5 - 1 micron	1 - 5 micron	mg/m ³	Pressure Dewpoint	g/m ³	ppm (mg/m³)
0	As specified by the equipment user or supplier and more stringent than Class 1						
1	≤ 20,000	≤ 400	≤ 10	—	≤ -94°F (-70°C)	—	0.008 (0.01)
2	≤ 400,000	≤ 6,000	≤ 100	—	\leq -40°F (-40°C)	_	0.08 (0.1)
3	—	≤ 90,000	≤ 1,000	—	\leq -4°F (-20°C)	_	0.83 (1)
4	—	—	≤ 10,000	—	\leq 37°F (3°C)	—	4.2 (5)
5	—	—	≤ 100,000	—	\leq 45°F (7°C)	—	—
6	—	_	—	≤ 5	\leq 50F (10°C)	_	—
7	—	_	_	5 - 10	—	≤ 0.5	—
8	—	—		—	—	0.5 - 5	—
9			_	_		5 - 10	—
X	—	—	—	≤ 10	—	≤ 10	≤ 10

Specifying air purity in accordance with ISO 8573-1:2010

When specifying the purity of air required, the standard must always be referenced, followed by the purity class selected for each contaminant (a different purity class can be selected for each contaminant if required). An example of how to write an air quality specification is shown below:

Example:

ISO 8573-1:2010 Class 1.2.1

ISO8573-1:2010 refers to the standard document and its revision, the three digits refer to the purity classifications selected for solid particulate, water and total oil. Selecting an air purity class of 1.2.1 would specify the following air quality when operating at the standard's reference conditions:

Class 1, Particulate

In each cubic meter of compressed air, the particulate count should not exceed 20,000 particles in the 0.1 - 0.5 micron size range, 400 particles in the 0.5 - 1 micron size range and 10 particles in the 1 - 5 micron size range.

Class 2, Water

A pressure dewpoint (PDP) of -40°F (-40°C) or better is required and no liquid water is allowed.

Class 1, Oil

In each cubic meter of compressed air, not more than 0.01mg of oil is allowed. This is a total level for liquid oil, oil aerosol and oil vapor.

Cost effective system design

To achieve the stringent air quality levels required for today's modern production facilities, a careful approach to system design, commissioning and operation must be employed.

Treatment at one point alone is not enough and it is highly recommended that the compressed air is treated in the compressor room to a level that will provide general purpose air to the site and also protect the distribution piping. Point of use purification should also be employed, not only to remove any contamination remaining in the distribution system, but also with specific attention on the quality of air required by each application. This approach to system design ensures that air is not "over treated" and provides the most cost effective solution to high quality compressed air.





For inventory, lead times, and kit lookup, visit www.pdnplu.com

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Catalog 0700P-8 Engineering Data

Produc

Product

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Up to 99% of the total liquid contamination found in a compressed air system is water.

Oil is perceived to cause the most problems as it is seen emanating from open drain points and exhausting valves, however, in the majority of instances, it is actually oily condensate (oil mixed with water) that is being observed.

How much water can be found in a typical compressed

air system?

The amount of water in a compressed air system is staggering. A small 100 scfm (2.8m³/min) compressor and refrigeration dryer combination, operating for 4,000 hours in typical climatic conditions can produce approximately 2,200 gallons (8,328 liters) of liquid condensate per year.

If the compressor is oil lubricated with a typical 2ppm (2 mg/m³) oil carryover, then although the resulting condensate would visually resemble oil, oil would in fact account for less than 0.1% of the overall volume and it is this resemblance to oil to which a false association is made.

The example above assumes uses a small compressor to highlight the large volume of condensate produced. If a compressed air system was operated in warmer, more humid climates, or with larger compressors installed, running for longer periods, the volume of condensate would increase significantly.

Contamination and types of compressors

It is often believed that the level of compressed air purification equipment required in a system is dependent upon the type of compressor used. Contamination in a compressed air system originates from many sources and is not related solely to the compressor or it's lubricants. No matter what compressor type is selected, adequate filtration and separation products will be required to remove the large volume of dirty contaminated water as well as the dirt, rust, pipescale and microbiological contamination in the system.

Preventative maintenance provides you with the following benefits:

- Lowest operating costs
- Superior compressed air quality
- Continued protection of downstream equipment and processes
- · Peace of mind

Compressed air and it's purification

Having identified the different types of contamination that can be found within a compressed air system, we can now examine the purification technologies available for it's removal.

Air Preparation Products Sources of Contamination

Particle and coalescing filters

Coalescing filters are probably the most important items of purification equipment in any compressed air system. They are designed to remove oil and water aerosols using mechanical filtration techniques and have the additional benefit of removing solid particulate to very low levels (as small as 0.01 micron in size). Installed in pairs, most users believe one to be an oil removal filter and the other to be a particulate filter, when in fact, the pair of filters both perform the same function. The first filter, a general purpose filter is used to protect the high efficiency filter against bulk contamination. This "dual filter" installation ensures a continuous supply of high quality compressed air with low operational costs and minimal maintenance time.

Bulk liquid removal high efficiency water separators

Used to protect filters in systems where excessive cooling takes place in distribution piping. Water Separators will remove in excess of 98% of bulk liquid contamination through centrifugal separation techniques.

Refrigeration dryers

Refrigeration dryers work by cooling the air, so are limited to positive pressure dewpoint ratings to prevent freezing of the condensed liquid. Ideal for general purpose applications, they typically provide pressure dewpoints of 38°F (3°C), 45°F (7°C) or 50°F (10°C) pdp. Air is reheated before it re-enters the system to prevent piping from "sweating" in humid conditions. Refrigeration dryers are not suitable for installations where piping is installed in ambient temperatures below the dryer dewpoint i.e. systems with external piping.

Adsorption (desiccant) dryers

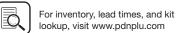
Water vapor is water in a gaseous form and is removed from compressed air using a dryer, with dryer performance being measured as pressure dewpoint. Adsorption or desiccant dryers remove moisture by passing air over a regenerative adsorbent material which strips the moisture from the air. This type of dryer is extremely efficient and typical pressure dewpoint ratings are -40°F (-40°C) or -100°F (-70°C) pdp. This means that for water vapor to condense into a liquid, the air temperature would have to drop below -40°F (-40°C) to -100°F (-70°C) respectively (the actual air temperature after an adsorption dryer is not the same as it's dewpoint).

Beneficially, a pressure dewpoint of -15°F (-26°C) or better will not only prevent corrosion, but will also inhibit the growth of microorganisms within the compressed air system.

Important note regarding compressed air dryers

As adsorption and refrigeration dryers are designed to remove only water vapor and not water in a liquid form, they require the use of particulate and coalescing filters, and possibly a bulk liquid separator to work efficiently.





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Selection Guide Engineering Data

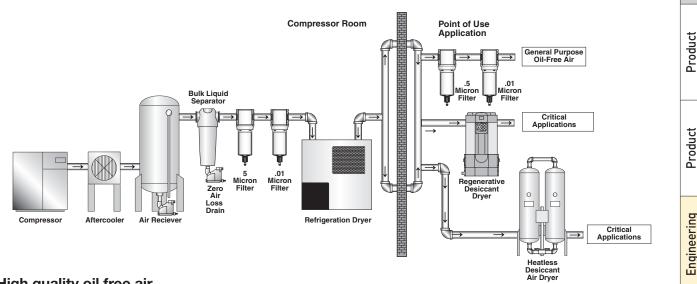
General purpose oil free air

Bulk contamination is removed to an adequate level prior to the air entering the distribution system. Point of use particulate filter(s) are used for removal of contamination within the distribution system. Point of use adsorption dryer installed where lower dewpoints are required.

Typical applications

- Plant automation
- Air logistics
- · Pneumatic tools
- General instrumentation
- Air conveying
- Air motors
- Temperature control systems •
- Blow guns

- · Gauging equipment
- · Raw material mixing
- · Sand / bead blasting



High quality oil free air

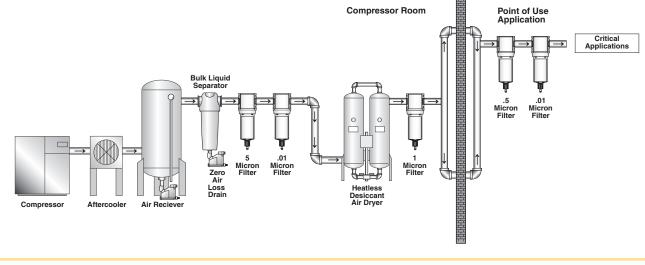
Bulk contamination is removed to an adequate level prior to the air entering the distribution system. Point of use particulate filter(s) are used for removal of contamination within the distribution system. Adsorption dryers are used for critical applications where lower dewpoints are required.

Typical applications

- Blow molding of plastics e.g. P.E.T. bottles Decompression chambers
- Film processing
- Critical instrumentation
- Advanced pneumatics
- Air blast circuit breakers

- Cosmetic production
- Medical air •
- Dental air
- Lasers and optics

- Robotics
- Spray painting
- Air bearings
- Pipeline purging
- Measuring equipment •





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Engineering Data Product Index

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Selection Guide

Δ





Catalog 0700P-8 Parker Pneumatic

Air Preparation Products Contents - www.parker.com/pneu/frl

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Global Air Preparation









P

Global Air Preparation

Introduction

Filters

Coalescers



DECLARATION OF COMPLIANCE (ROHS)

European Directive 2011/65/EU - RoHS (Restriction us of certain Hazardous Substances in electrical and electronic equipment). restricts the use of the 6 substances in the manufacture of specified electrical equipment. Product containing lead and its compound (except Lead: for applications of lead as an alloying element by weight in steel up to 0.35%, in aluminium up to 0.4% and in copper alloys up to 4% and in circuit board solder) must not exceed 0.1% by weight Mercury: The concentration level must not exceed 0.1% by volume Cadmium: The concentration level must not exceed 0.01% by volume Hexavalent Chromiou: This is a corrosive protective finish used on our product line. Where this finish is utilized the Chromate solution is Hexavalent (Chrome 6) free. Polybrominated Biphenyls (PBB): The concentration level must not exceed 0.1% by weight. This substance is not know to be in any of our products. Polybrominated Diphenyl Esters (PBDE): The concentration level must not exceed 0.1% by weight. This substance is not know to be in any of our products. Global Air Preparation products supplied by Parker Hannifin have been designed and manufactured in accordance with "sound engineering practice", as defined by Article 3 of Pressure Equipment Directive 97/23/EC.



Global Air Preparation product range is in compliance with REACH to ensure continued compliance additions to the list of SVHC (Substance of Very High Concern) are reviewed periodically.

Global Air Preparation product range has been third party Shock & Vibration tested independently in accordance to EN 61373 : 1999, Category 2



Following Ignition Hazard Assessments performed on the nonelectrical Global Air Preparation products they are in accordance with the requirements of EN 13463-1:2009, it was considered that the equipment does not contain its own source of ignition, and therefore is not within the scope of directive 94/9/EC.

The products can be used in a Group II Category 2 environment assuming that the ATEX Directive and the following conditions are complied with:

- Installation and maintenance of the product must be undertaken by qualified personnel.
- Do not mount the products in an area where impact may occur.
- Filters must be used to limit the introduction of particles and to • capture particles generated in service.
- Supply air quality must be within ISO 8573-1:2010 Class 1.4.2.
- Maximum working temperature to be as stated on product label.
- WARNING pulsating pressure and/or a closed circuit can generate heat.
- Deposits of dust on the product must not exceed 5mm thickness. Refer to technical file for surface areas of plastics. The unit must be earthed via the compressed air supply line.
- · The unit must not come into contact with liquid solvents, acids or alkalis

Refer to technical file for chemicals known to be incompatible. Product cleaning must be undertaken using a method complying with the specifications of the ATEX zone, preferably by using mild soap and water or antistatic products.

- Regulators, Filter Regulators: Do not use Regulators or Filter Regulators within systems that can create vibration within the Regulator / Filter Regulator unit.
- Solenoid Operated Valves: Are suitable for use in an ATEX environment, (Group II Category 2) providing ATEX approved solenoids are fitted.
- Technical file available on request.



Global Air Preparation product range has been designed and tested in accordance with ISO flow testing, envelope integrity, and catalog data presented.

- Filters ISO 5782-1 & ISO 5782-2: 1997
- Regulators- ISO 6953-1 & ISO 6953-2: 2000
- Lubricators- ISO 6301-1 & ISO 6301-2: 2009

Filter /

Lubricators

Combinations



C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

B2

Catalog 0700P-8



Parker Global Air Preparation System

Air Preparation Products

Global Air Preparation

Global. Modular.

Performance you need, wherever you need it.



Full featured particulate and coalescing filters, regulators, filter/regulators, and lubricators are available with a wide range of standard options to meet air preparation needs.

The comprehensive Global Air Preparation System is available in three body sizes with either BSPP, BSPT, or NPT to accommodate thread type requirements.

Individual units can easily be assembled into various combinations, utilizing patented modular lightweight body connectors.

www.parker.com/globalfrl

B3

Accessories Combinations

and Kits

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

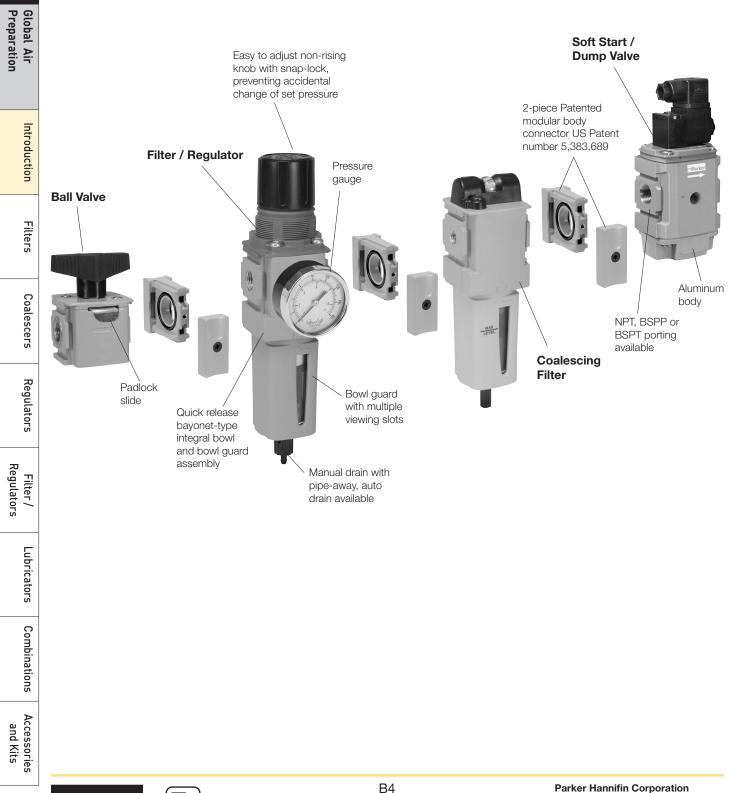




Catalog 0700P-8

B

A completely modular air preparation system





C

Comprehensive Offering



P31 Mini Series 1/4" ports 40mm body width

Filters

• 5µ particulate, 1.0µ and 0.01µ

coalescing, and adsorber

available as standard

drains standard

Transparent or metal bowl

with manual or auto float



P32 Compact Series 1/4", 3/8" and 1/2" 60mm body width

Regulators

common port and electronic

relieving versions available

Available as stand alone,

· Both relieving and non-

proportional



P33 Standard Series 1/2" and 3/4" 73mm body width



Filter / Regulators

- Compact design for space savings
- Available with all the same standard options as the filters and regulators



Lubricators

- Proportional oil delivery over a wide range of air flows
- Fill under pressure



Combinations

- Compact design for space savings
- · Easily assembled
- Many configurations available



Accessories

- Solenoid operated soft start, quick dump, and soft start/ quick dump valves
- Manifold blocks
- Ball style lockout / shutoff valve
- Repair kits, gauges, etc.





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Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics Global Air Preparation



Combinations

Accessories

and Kits

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Air Preparation

P31 Mini Series



	Filter	82	(39)
	Coalescer	36	(17)
	Regulator	165	(78)
	Filter/Regulator	136	(64)
	Lubricator	90	(42)
_			

Features:

- Manifold style regulators available
- OSHA Compliant shut-off valves
- Soft-Start & Quick Dump valves
- Electronic Proportional Regulator



1/2 & 0/4 T UILEU		
Flows up to:	scfm	(dm³/s, ANR)
Filter	85	(40)
Coalescer	72	(34)
Regulator	233	(111)
Filter/Regulator	230	(108)
Lubricator	150	(71)

Features:

- OSHA Compliant shut-off valves
- Soft-Start & Quick Dump valves (Utilizes P32 size only)
- Electronic proportional regulator (Utilizes P32 size only)





B6

Complete Pneumatic System

Common Port Manifold Regulators

- Multiple output pressures (P2, P3, P4, etc.) with common inlet (P1)
- Available in two sizes P31 and P32
- Balanced valve design for accurate pressure regulation
- Outlet pressure ports in front and rear of unit.
- Multiple spring ranges available

Electronic Proportional Regulator

- Electro-Pneumatic regulator
- Integrated systems control
- Accurate output pressure
- Micro parameter settings
- Selectable I/O parameters
- Quick, full flow exhaust
- LED display indicates output pressure
- No air consumption in steady state
- Multiple mounting options
- Protection to IP65





P31P Mini Series

P32P Compact Series

Semi Precision Regulator and Filter/Regulator

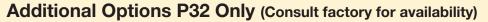
- Available in P32 compact series
- Fine adjustment sensitivity
- Good repeatability and minimal pressure drop
- · Good flow capacity
- Light gray knob for easy identification



Optional Tamperproof Kits

- One facilitates the permanent tamperproofing of the Regulator and Filter/Regulator units
- Hinged black part clamps over control knob and is locked in place after sliding yellow cover over it
- Other allows for removable lockout/tagout tamperproofing
 Four pad lock location holes tagout
 - Hinged locking clamp secures over existing knob via yellow cover which is slid over into place





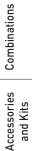
• T-Handle



• Preset and Tamperproof



- Preset
- Pressure Limiter





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

B **Global Air** reparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

B

Global Air Preparation

Introduction

Filters

Coalescers

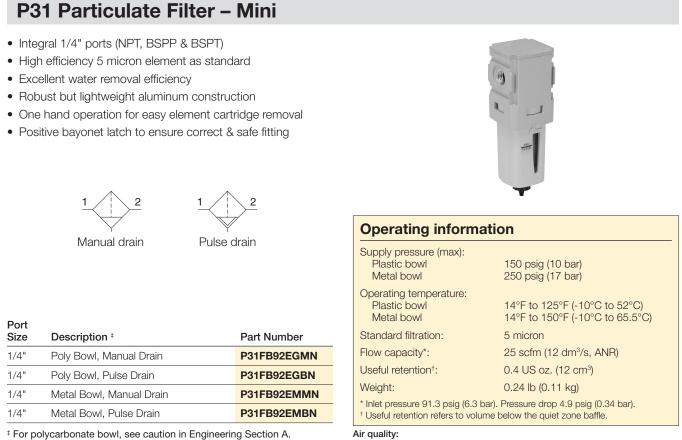
Regulators

Filter / Regulators

_ubricators

Combinations

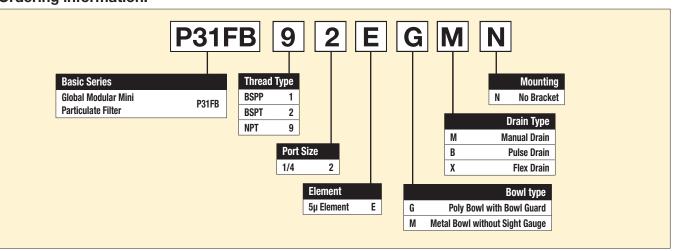
Accessories and Kits



Within ISO 8573-1: 1991 Class 3 (Particulates)

Within ISO 8573-1: 2001 Class 6 (Particulates)

Ordering information:



Most popular.



Air Preparation Products Global Air Preparation

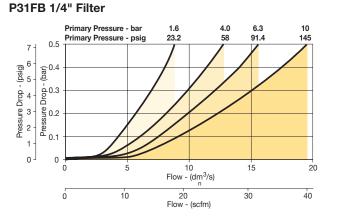
Material Specifications

•	
Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Element retainer	Acetal
Baffle	Acetal
Filter element	Sintered polyethylene
Seals	Nitrile

Repair and Service Kits

Plastic bowl / bowl guard, manual drain	P31KB00BGM
Metal bowl / w/o sight gauge, manual drain	P31KB00BMM
Plastic bowl / bowl guard, pulse drain	P31KB00BGB
Metal bowl / w/o sight gauge, pulse drain	P31KB00BMB
5µ particle filter element	P31KA00ESE
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB

Flow Charts



1.58 (40) 1.58 .79 |← (40) (20) .84 .0∓ (21.4) \oplus 4.91 (124.8) 4.71 (119.6) P 5/32 (4mm) I.D. tube Bowl barb fitting 1.30 removal clearance (33) Inches (mm)

Manual Drain

Pulse Drain

Accessories and Kits

B



Q

P32 Particulate Filter – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting

2



Manual drain

Auto drain

Port		
Size	Description [‡]	Part Number
1/4"	Poly Bowl, Manual Drain	P32FB92EGMN
1/4"	Poly Bowl, Auto Drain	P32FB92EGAN
1/4"	Metal Bowl, Manual Drain	P32FB92ESMN
1/4"	Metal Bowl, Auto Drain	P32FB92ESAN
3/8"	Poly Bowl, Manual Drain	P32FB93EGMN
3/8"	Poly Bowl, Auto Drain	P32FB93EGAN
3/8"	Metal Bowl, Manual Drain	P32FB93ESMN
3/8"	Metal Bowl, Auto Drain	P32FB93ESAN
1/2"	Poly Bowl, Manual Drain	P32FB94EGMN
1/2"	Poly Bowl, Auto Drain	P32FB94EGAN
1/2"	Metal Bowl, Manual Drain	P32FB94ESMN
1/2"	Metal Bowl, Auto Drain	P32FB94ESAN



Operating information		
Supply pressure (r Plastic bowl Metal bowl	nax):	150 psig (10 bar) 250 psig (17 bar)
Operating tempera Plastic bowl Metal bowl	ature:	-13°F to 125°F (-25°C to 52°C) -13°F to 150°F (-25°C to 65.5°C)
Standard filtration:		5 micron
Flow capacity*:	1/4 3/8 1/2	50 scfm (24 dm³/s, ANR) 78 scfm (37 dm³/s, ANR) 82 scfm (39 dm³/s, ANR)
Useful retention [†] :		1.7 US oz. (51 cm³)
Weight:		0.62 lb (0.28 kg)
* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).		

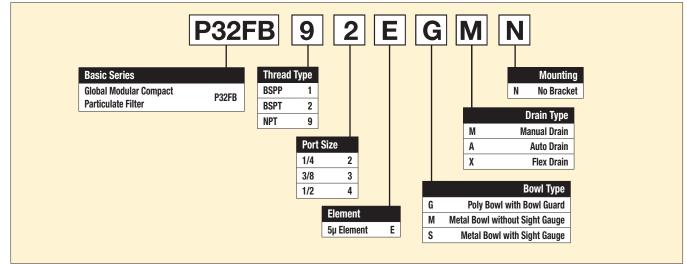
[†] Useful retention refers to volume below the quiet zone baffle.

Air quality:

Within ISO 8573-1: 1991 Class 3 (Particulates) Within ISO 8573-1: 2001 Class 6 (Particulates)

⁺ For polycarbonate bowl, see caution in Engineering Section A.

Ordering Information:



Most popular.



B10

B

Filter / Regulators

_ubricators

Combinations

Accessories and Kits (Revised 11-28-18)

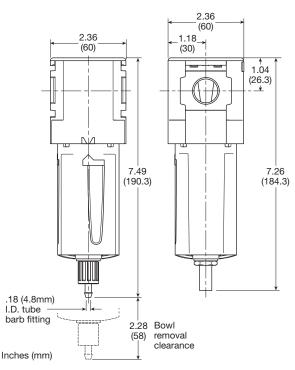
Air Preparation Products Global Air Preparation

Material Specifications

•	
Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Deflector	Polypropylene
Element retainer / Baffle	Acetal
Filter element	Sintered polyethylene
Seals	Nitrile
Sight gauge	Nylon

Repair and Service Kits

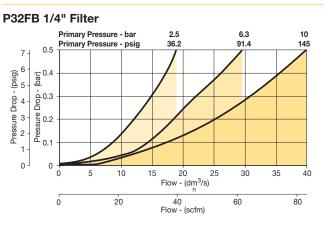
Plastic bowl / bowl guard, manual drain	P32KB00BGM
Metal bowl / sight gauge, manual drain	P32KB00BSM
Auto drain	P32KA00DA
5µ particle filter element	P32KA00ESE
L-bracket (fits to body)	P32KA00ML
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB

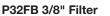


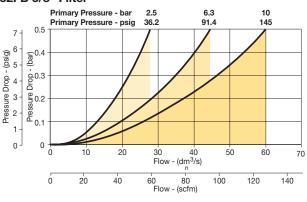
Manual Drain

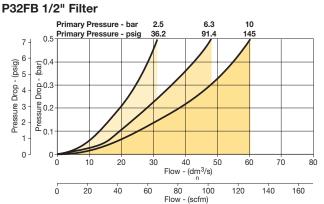
Automatic Drain

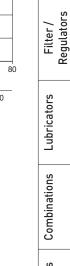
Flow Charts











B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Accessories and Kits



For inventory, lead times, and kit lookup, visit www.pdnplu.com

Q

P33 Particulate Filter – Standard

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators

Filter /

_ubricators

Combinations

Accessories and Kits Port

Size 1/2"

1/2"

1/2"

1/2"

3/4"

3/4"

3/4"

3/4"

B





Manual drain

Description #

Poly Bowl, Manual Drain

Metal Bowl, Manual Drain

Poly Bowl, Auto Drain

Metal Bowl, Auto Drain

Poly Bowl, Auto Drain

Poly Bowl, Manual Drain

Metal Bowl, Manual Drain

Metal Bowl, Auto Drain

Ordering Information:

Auto drain

Part Number

P33FA94EGMN

P33FA94EGAN

P33FA94ESMN

P33FA94ESAN

P33FA96EGMN

P33FA96EGAN

P33FA96ESMN

P33FA96ESAN



Operating information		
Supply pressure (max):Plastic bowl150 psig (10 bar)Metal bowl250 psig (17 bar)		
Operating temperature:Plastic bowl-13°F to 125°F (-25°C to 52°C)Metal bowl-13°F to 150°F (-25°C to 65.5°C)		
Standard filtration: 5 micron		
Flow capacity*: 1/2 85 scfm (40 dm³/s, ANR) 3/4 102 scfm (48 dm³/s, ANR)		
Useful retention [†] : 2.8 US oz. (85 cm ³)		
Weight: 1.01 lb (0.46 kg)		
 * Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar). † Useful retention refers to volume below the quiet zone baffle. 		

[‡] For polycarbonate bowl, see caution in Engineering Section A.

Air quality:

Within ISO 8573-1: 1991 Class 3 (Particulates) Within ISO 8573-1: 2001 Class 6 (Particulates)

P33FA 9 6 E G M N Mounting Basic Series Thread Type BSPP Global Modular Standard 1 Ν No Bracket P33FA **Particulate Filter** BSPT 2 Drain Type 9 NPT М Manual Drain Port Size A Auto Drain 1/2 4 **Bowl Type** 3/4 6 G Poly Bowl with Bowl Guard Element М Metal Bowl without Sight Gauge 5µ Element Ε S Metal Bowl with Sight Gauge

Most popular.



B12

(Revised 11-28-18)

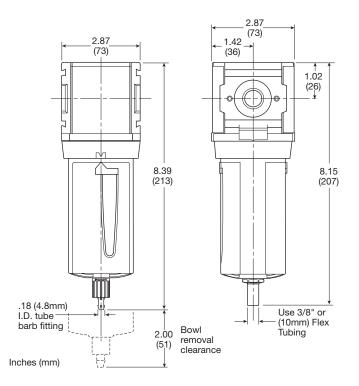
Air Preparation Products Global Air Preparation

Material Specifications

minum S
3
/carbonate
ninum
on
/propylene
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ered polyethylene
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on
i

Repair and Service Kits

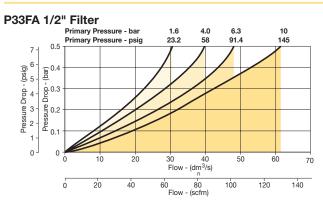
Plastic bowl / bowl guard, manual drain	P33KA00BGM
Metal bowl / sight gauge, manual drain	P33KA00BSM
Auto drain	P32KA00DA
5µ particle filter element	P33KA00ESE
L-bracket (fits to body)	P33KA00ML
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P33KA00MT
Body connector	P32KA00CB

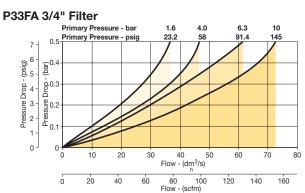


Manual Drain

Automatic Drain

Flow Charts









Q

For inventory, lead times, and kit lookup, visit www.pdnplu.com

B13

B

filters

Note:

Port

Size

1/4"

1/4'

1/4"

1/4'

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators

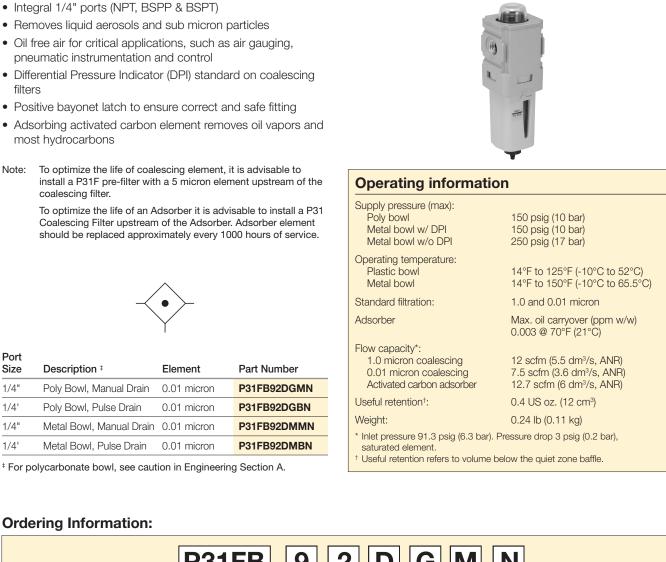
Filter /

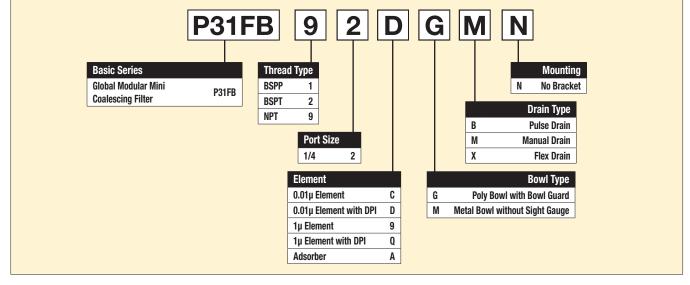
_ubricators

Combinations

Accessories and Kits

P31 Coalescing and Adsorber Filters – Mini





Most popular.



Catalog 0700P-8 Mini Coalescing and Adsorber Filters

Material Specifications

Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Filter element	Borosilicate cloth
Adsorber element	Activated carbon
Seals	Nitrile

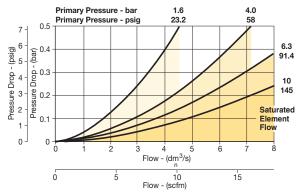
Repair and Service Kits

Plastic bowl / bowl guard, manual drain	P31KB00BGM
Metal bowl / w/o sight gauge ,manual drain	P31KB00BMM
Plastic bowl / bowl guard, pulse drain	P31KB00BGB
Metal bowl / w/o sight gauge, pulse drain	P31KB00BMB
1µ coalescing filter element	P31KA00ES9
0.01µ coalescing filter element	P31KA00ESC
Activated carbon adsorber filter element	P31KA00ESA
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB
Differential pressure indicator (replacement)	P31KB00RQ

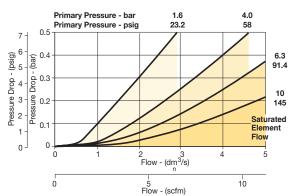
Air Preparation Products Global Air Preparation

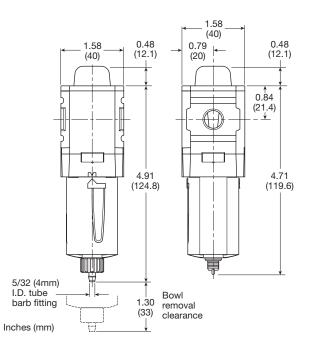
Flow Charts

P31FB - 1.0 micron flow



P31FB - 0.01 micron flow





Manual Drain

Pulse Drain

Accessories Combinations Lubricators Filter / Regulators and Kits

B

Global Air Preparation

Introduction

Filters

Coalescers



P32 Coalescing and Adsorber Filters – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Differential Pressure Indicator (DPI) standard on Coalescing Filters
- · Positive bayonet latch to ensure correct & safe fitting
- Adsorbing activated carbon element removes oil vapors and most hydrocarbons
- Note: To optimize the life of coalescing element, it is advisable to install a P32F pre-filter with a 5 micron element upstream of the coalescing filter. To optimize the life of an Adsorber it is advisable to install a P32 Coalescing Filter upstream of the Adsorber. Adsorber element should be replaced approximately every 1000 hours of service.



Description [‡]	Element	Part Number
Poly Bowl, Manual Drain	0.01 micron	P32FB92DGMN
Poly Bowl, Auto Drain	0.01 micron	P32FB92DGAN
Metal Bowl, Manual Drain	0.01 micron	P32FB92DSMN
Metal Bowl, Auto Drain	0.01 micron	P32FB92DSAN
Poly Bowl, Manual Drain	0.01 micron	P32FB93DGMN
Poly Bowl, Auto Drain	0.01 micron	P32FB93DGAN
Metal Bowl, Manual Drain	0.01 micron	P32FB93DSMN
Metal Bowl, Auto Drain	0.01 micron	P32FB93DSAN
Poly Bowl, Manual Drain	0.01 micron	P32FB94DGMN
Poly Bowl, Auto Drain	0.01 micron	P32FB94DGAN
Metal Bowl, Manual Drain	0.01 micron	P32FB94DSMN
Metal Bowl, Auto Drain	0.01 micron	P32FB94DSAN
	Poly Bowl, Manual Drain Poly Bowl, Auto Drain Metal Bowl, Manual Drain Metal Bowl, Auto Drain Poly Bowl, Auto Drain Poly Bowl, Auto Drain Metal Bowl, Manual Drain Poly Bowl, Auto Drain Poly Bowl, Auto Drain Poly Bowl, Auto Drain Metal Bowl, Manual Drain	Poly Bowl, Manual Drain0.01 micronPoly Bowl, Auto Drain0.01 micronMetal Bowl, Manual Drain0.01 micronMetal Bowl, Auto Drain0.01 micronPoly Bowl, Auto Drain0.01 micronPoly Bowl, Manual Drain0.01 micronPoly Bowl, Auto Drain0.01 micronMetal Bowl, Auto Drain0.01 micronMetal Bowl, Manual Drain0.01 micronMetal Bowl, Manual Drain0.01 micronPoly Bowl, Auto Drain0.01 micron

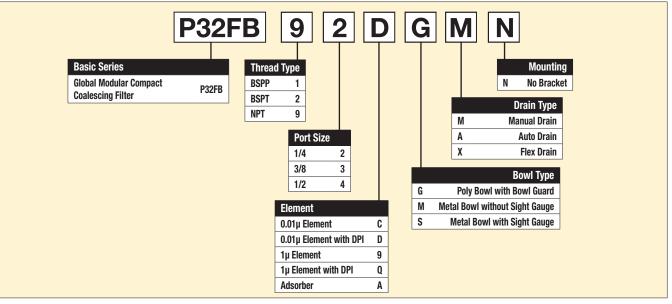
[‡] For polycarbonate bowl, see caution in Engineering Section A.

Ordering Information:



Operating information

Supply pressure (max): Poly bowl Metal bowl w/ DPI Metal bowl w/o DPI	150 psig (10 bar) 150 psig (10 bar) 250 psig (17 bar)
Operating temperature: Plastic bowl Metal bowl	-13°F to 125°F (-25°C to 52°C) -13°F to 150°F (-25°C to 65.5°C)
Standard filtration:	1.0 and 0.01 micron
Adsorber	Max. oil carryover (ppm w/w) 0.003 @ 70°F (21°C)
Flow capacity*: 1.0 micron coalescing 0.01 micron coalescing Activated carbon adsorber	53 scfm (25 dm³/s, ANR) 36 scfm (17 dm³/s, ANR) 85 scfm (40 dm³/s, ANR)
Useful retention [†] :	1.7 US oz. (51 cm ³)
Weight:	0.71 lb (0.32 kg)
 * Inlet pressure 91.3 psig (6.3 bar). Pressure drop 3 psig (0.2 bar), saturated element. * Useful retention refers to volume below the quiet zone baffle. 	



Most popular.



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

B

Global Air Preparation

Accessories and Kits

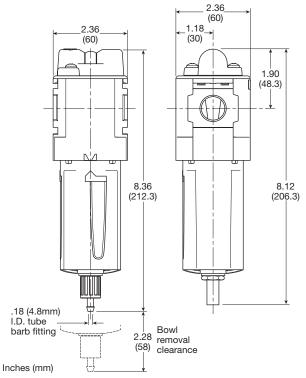
Air Preparation Products Global Air Preparation

Material Specifications

-	
Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Filter element	Borosilicate cloth
Adsorber	Activated carbon
Seals	Nitrile
Sight gauge	Nylon

Repair and Service Kits

Plastic bowl / bowl guard, manual drain	P32KB00BGM
Metal bowl / sight gauge, manual drain	P32KB00BSM
Auto drain	P32KA00DA
1µ coalescing filter element	P32KA00ES9
0.01µ coalescing filter element	P32KA00ESC
Activated carbon adsorber filter element	P32KA00ESA
L-bracket (fits to body)	P32KA00ML
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB
Differential pressure indicator (replacement)	P32KA00RQ



Q

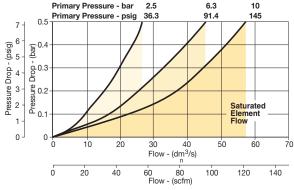
Manual Drain

Parker

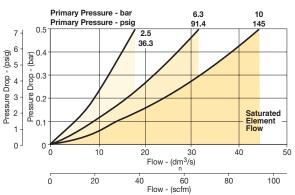
Automatic Drain

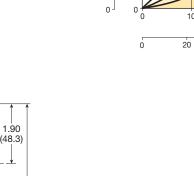
P32FB - 1.0 micron flow Primary Pressure - bar

Flow Charts



P32FB - 0.01 micron flow







Pneumatic Division

Richland, Michigan

For inventory, lead times, and kit lookup, visit www.pdnplu.com

Coalescers

B

Global Air Preparation

Introduction

Filters

Regulators

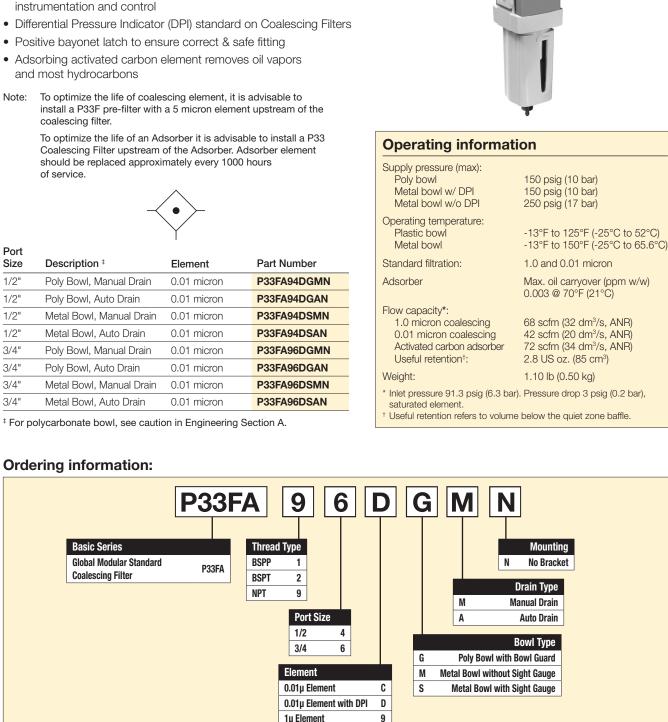
Filter / Regulators

Lubricators

Oil free air for critical applications, such as air gauging, pneumatic

Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
Removes liquid aerosols and sub micron particles

P33 Coalescing and Adsorber Filters – Standard



Most popular.



Q

Α

1µ Element with DPI

Adsorber

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

Filters

Re

Regulators

Filter / Regulators

Lubricators

and Kits

Combinations Accessories

Air Preparation Products Global Air Preparation

Material Specifications

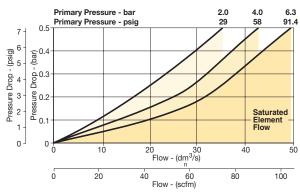
Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Filter element	Borosilicate cloth
Adsorber	Activated carbon
Seals	Nitrile
Sight gauge	Nylon

Repair and Service Kits

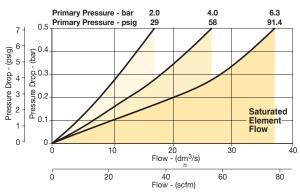
Plastic bowl / bowl guard, manual drain	P33KA00BGM
Metal bowl / sight gauge, manual drain	P33KA00BSM
Auto drain	P32KA00DA
1µ coalescing filter element	P33KA00ES9
0.01µ coalescing filter element	P33KA00ESC
Activated carbon adsorber filter element	P33KA00ESA
L-bracket (fits to body)	P33KA00ML
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB
Differential pressure indicator (replacement)	P32KA00RQ

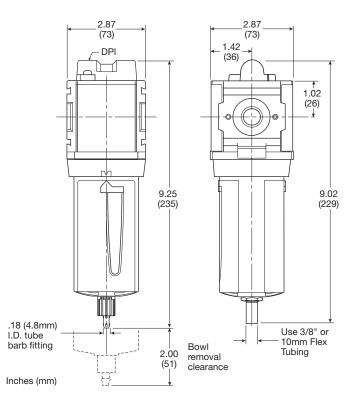
Flow Charts

P33FA - 1.0 micron flow



P33FA - 0.01 micron flow





Manual Drain

Automatic Drain



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

B

Global Air Preparation

P31 Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- · Robust but lightweight aluminum construction
- Secondary pressure ranges
- · Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.

Gauge

Square

None

- Relieving & non-relieving types
- Non-rising knob

B

Global Air Preparation

Introduction

Filters

Port

Size

1/4"

1/4"





Self reli with ga

Description

(Relieving)

125 psig (8 bar)

125 psig (8 bar)

on-relieving regulator

ieving regulator	No
auge	

P31RB92BN5P

	Adjusting range pressure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 232 psig (0-16 bar)
	Gauge port (2 each)**	1/8 BSPP, BSPT, NPT
Dether	Weight:	0.37 lb (0.17 kg)
Part Number	* Inlet pressure 145 psig (10 bar	r). Secondary pressure 91.3 psig (6.3 bar)
P31RB92BNNP	and 14.5 psig (1 bar) pressure	drop.

Operating information

1/4

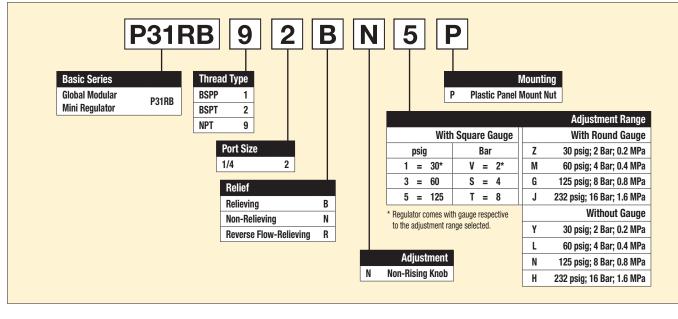
Flow capacity*:

Operating temperature[†]:

Supply pressure (max):

- Non-gauge option only.
- Units with square gauges: 5°F to 150°F (-15°C to 65.5°C)

Ordering Information:



Most popular.



B20



68 scfm (32 dm³/s, ANR)

300 psig (20 bar)

-4°F to 150°F (-20°C to 65.5°C)

_ubricators

Combinations

Accessories and Kits

Catalog 0700P-8 Mini Regulators

Material Specifications

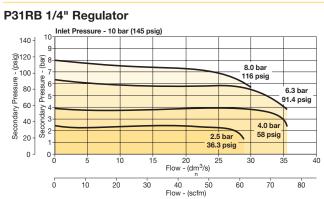
-	
Body	Aluminum
Adjustment knob	Acetal
Bonnet	PBT
Diaphragm assembly	Brass / Nitrile
Valve assembly	Brass / Nitrile
Springs	Steel
Seals	Nitrile
Panel nut	Acetal

Repair and Service Kits

Diaphragm repair kit - relieving	P31KB00RB
Diaphragm repair kit - non-relieving	P31KB00RC
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB



Flow Charts



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.

Gauges

Square flush	0-4 bar	K4511SCR04B
mount gauge	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160
Square with	0-4 bar	P6G-PR10040
adapter kit	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
1.00" Round 1/8"	0-60 psig / 0-4 bar	K4510N18060
center back mount	0-160 psig / 0-11 bar	K4510N18160
40mm Round 1/8"	0-30 psig / 0-2 bar	K4515N18030
center back mount (Not for use with common	0-60 psig / 0-4 bar	K4515N18060
port regulators)	0-160 psig / 0-11 bar	K4515N18160

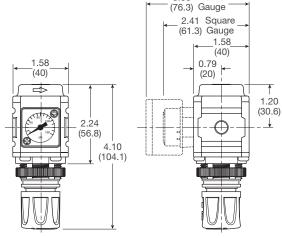
For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.



B

Global Air Preparation

Coalescers



3.00 Round

Inches (mm)

NOTE: 1.20 in. (30mm) hole required for panel nut mounting.



C

P31 Common P1 Regulators – Mini

- Manifold style regulator with line pressure on both sides
- Pressure output is at front or rear
- Inlet port 1/4" (NPT, BSPP & BSPT)
- Working port 1/8"
- Robust construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Non-rising knob





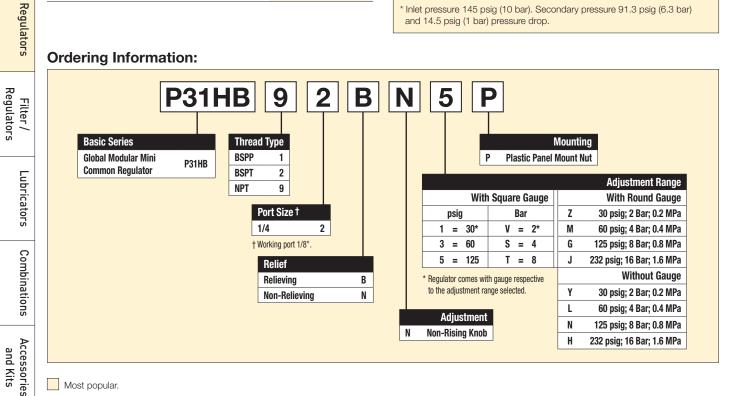
Self relieving regulator with gauge

Non-relieving regulator

Port Size	Description (Relieving)	Gauge	Part Number
1/4"	125 psig (8 bar)	None	P31HB92BNNP
1/4"	125 psig (8 bar)	Square	P31HB92BN5P

Operating information

Flow capacity*: 1/4	42 scfm (20 dm³/s, ANR)	
Operating temperature:	-4°F to 150°F (-20°C to 65.5°C)	
Supply pressure (max):	300 psig (20 bar)	
Adjusting range pressure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 232 psig (0-16 bar)	
P1 port size (inlet/outlet)	1/4 NPT, BSPP, BSPT	
P2 regulated ports (2 ea.)	1/8 NPT, BSPP, BSPT	
Weight:	0.66 lb (0.30 kg)	
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.		



Most popular.



B22

B

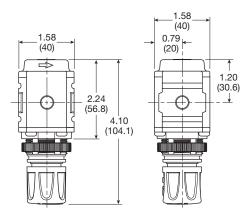
Catalog 0700P-8 Mini Common P1 Regulators

Materials of Construction

Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled PBT
Diaphragm assembly	Brass / Nitrile
Valve assembly	Brass / Nitrile

Repair and Service Kits

-	
Diaphragm repair kit - relieving	P31KB00RB
Diaphragm repair kit - non-relieving	P31KB00RC
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB



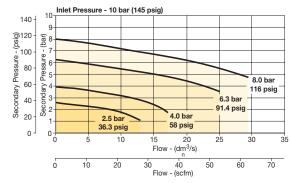
Inches (mm)

NOTE: 1.20 in. (30mm) hole required for panel nut mounting.

Air Preparation Products **Global Air Preparation**

Flow Charts

P31HB 1/4" Common Regulator



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.

Gauges

Square with adapter kit	0-4 bar	P6G-PR10040
	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
1.00" round 1/8"	0-60 psig / 0-4 bar	K4510N18060
center back mount	0-160 psig / 0-11 bar	K4510N18160

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

Lubricators

Combinations



C

P32 Regulators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- · Robust but lightweight aluminum construction
- Secondary pressure ranges
- · Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Regulator will reverse flow as standard
- Non-rising knob

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators Filter /

_ubricators

Combinations

Accessories and Kits

Available T-handle





Self relieving regulator with gauge

Non-relieving regulator

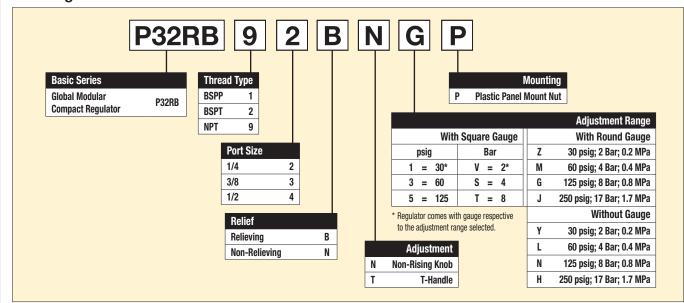
Port Size	Description (Relieving)	Gauge	Part Number
1/4"	125 psig (8 bar)	None	P32RB92BNNP
1/4"	125 psig (8 bar)	Round	P32RB92BNGP
3/8"	125 psig (8 bar)	None	P32RB93BNNP
3/8"	125 psig (8 bar)	Round	P32RB93BNGP
1/2"	125 psig (8 bar)	None	P32RB94BNNP
1/2"	125 psig (8 bar)	Round	P32RB94BNGP



Operating information

Flow capacity*: 1/4 3/8, 1/2	148 scfm (70 dm³/s, ANR) 165 scfm (78 dm³/s, ANR)	
Operating temperature:	-13°F to 150°F (-25°C to 65.5°C)	
Supply pressure (max):	300 psig (20 bar)	
Adjusting range pressure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 250 psig (0-17 bar)	
Gauge port (2 each)	1/4 NPT, BSPP, BSPT	
Weight:	0.90 lb (0.41 kg)	
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.		

Ordering Information:



Most popular.



Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled nylon
Diaphragm assembly	Nitrile / Zinc
Valve assembly	Brass / Nitrile
Springs	Steel, stainless steel
Seals	Nitrile
Panel nut	Acetal

Repair and Service Kits

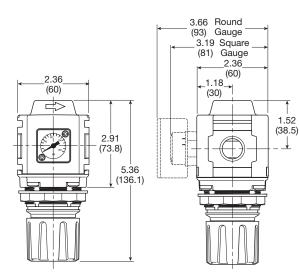
Diaphragm repair kit - relieving	P32KB00RB
Diaphragm repair kit - non-relieving	P32KB00RC
Panel mount nut - aluminum	P32KA00MM
Panel mount nut - plastic	P32KA00MP
Angle bracket (attaches via panel nut)	P32KB00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

\land 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.



Inches (mm)

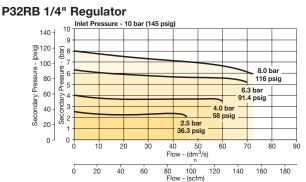
NOTE: 1.90 in. (48mm) hole required for panel nut mounting.

Parker

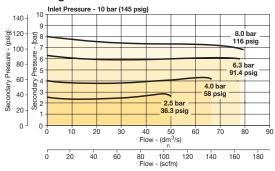
For inventory, lead times, and kit lookup, visit www.pdnplu.com

Air Preparation Products **Global Air Preparation**

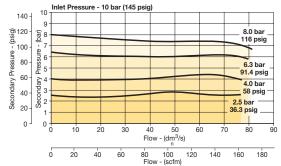
Flow Charts



P32RB 3/8" Regulator



P32RB 1/2" Regulator



Gauges

B25

Square flush	0-4 bar	K4511SCR04B
mount gauge	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160
Square with adapter kit	0-4 bar	P6G-PR10040
	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
50mm (2") round	0-30 psig / 0-2 bar	K4520N14030
1/4" center back mount	0-60 psig / 0-4 bar	K4520N14060
	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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

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

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

P32 Semi-Precision Regulator – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- · Robust but lightweight aluminum construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Regulator will reverse flow as standard
- Non-rising knob

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators Filter /

_ubricators

Combinations

Accessories and Kits

Port

Size

1/4"

1/4"

3/8"

3/8"

1/2"

1/2"





Se wi

Description

125 psig (8 bar)

(Relieving)

relieving regulator

ij	
elf relieving regulator	
ith gauge	



Part Number

P32RB92PNNP

P32RB92PNGP

P32RB93PNNP

P32RB93PNGP

P32RB94PNNP

P32RB94PNGP

ing regulator	Non-
е	

Gauge

None

Round

None

Round

None

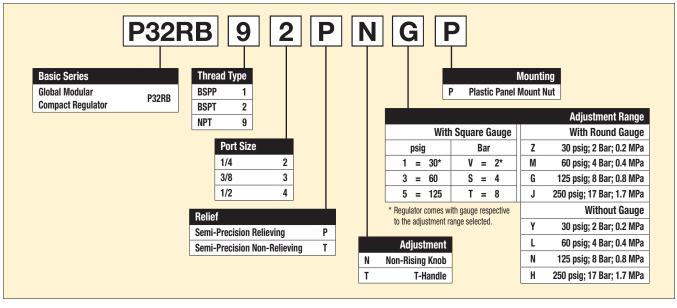
Round



Operating information

Flow capacity*: 1/4, 3/8, 1/2	53 scfm (25 dm³/s, ANR)	
Effect of supply pressure variation	0.6 psig (0.04 bar) for 25 psig (1.7 bar) change in P1	
Operating temperature:	-13°F to 150°F (-25°C to 65.5°C)	
Supply pressure (max):	300 psig (20 bar)	
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)	
Gauge port (2 each):	1/4 NPT, BSPP, BSPT	
Weight:	0.90 lb (0.41 kg)	
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.		

Ordering Information:



Most popular.



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Catalog 0700P-8 Compact Semi-Precision Regulators

Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled nylon
Diaphragm assembly	Nitrile / zinc
Valve assembly	Brass / nitrile
Springs	Steel, stainless steel
Seals	Nitrile
Panel nut	Acetal

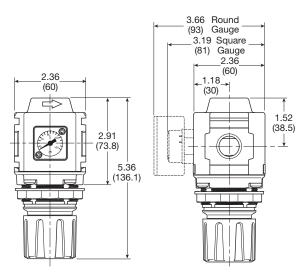
Repair and Service Kits

Diaphragm repair kit - relieving	P32KB00RB
Diaphragm repair kit - non-relieving	P32KB00RC
Panel mount nut - aluminum	P32KA00MM
Panel mount nut - plastic	P32KA00MP
Angle bracket (attaches via panel nut)	P32KB00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

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.



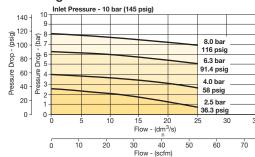
Inches (mm) NOTE: 1.90 in. (48mm) hole required for panel nut mounting.

-Parker

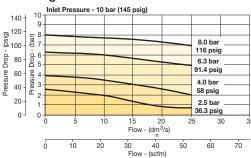
Air Preparation Products Global Air Preparation

Flow Charts

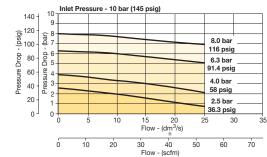
P32RB 1/4" Regulator



P32RB 3/8" Regulator



P32RB 1/2" Regulator



Gauges

J		
Square flush	0-4 bar	K4511SCR04B
mount gauge	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160
Square with	0-4 bar	P6G-PR10040
adapter kit	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
50mm (2") round	0-30 psig / 0-2 bar	K4520N14030
1/4" center back mount	0-60 psig / 0-4 bar	K4520N14060
	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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

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

For inventory, lead times, and kit lookup, visit www.pdnplu.com

B27

Regulators

Regulators

Filter /

Lubricators

B

Global Air Preparation

Introduction

Filters

P32 Common - P1 Regulator – Compact

- Manifold style regulator with line pressure on both sides.
- Pressure output is at front or rear.
- Inlet ports 1/4", 3/8" or 1/2" (NPT, BSPP & BSPT)
- Working port 1/4"

B

Global Air Preparation

Introduction

Filters

Coalescers

- Robust construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Regulator will reverse flow as standard
- Non-rising knob

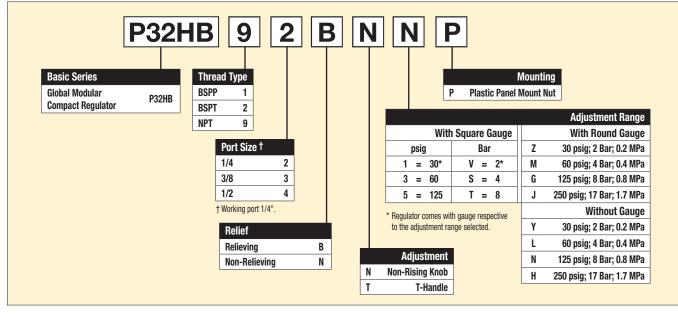


Self relieving regulator with gauge

Non-relieving regulator

Port Size	Description (Relieving)	Gauge	Part Number
1/4"	125 psig (8 bar)	None	P32HB92BNNP
3/8"	125 psig (8 bar)	None	P32HB93BNNP
1/2"	125 psig (8 bar)	None	P32HB94BNNP

Ordering Information:

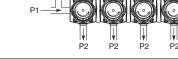


Most popular.









Operating information

Flow capacity*: 1/4, 3/8, 1/2	64 scfm (30 dm³/s, ANR)	
Operating temperature:	-25°C to 65.5°C (-13°F to 150°F)	
Supply pressure (max):	300 psig (20 bar)	
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 232 psig (0 to 16 bar)	
Gauge port (2 each):	1/4 NPT, BSPP, BSPT	
Weight:	0.50 lb (0.23 kg)	
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.		

Accessories

and Kits

Catalog 0700P-8 Compact Common P1 Precision Regulator

Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled nylon
Diaphragm assembly	Nitrile / zinc
Valve assembly	Brass / nitrile
Springs	Steel, stainless steel
Seals	Nitrile
Panel nut	Acetal

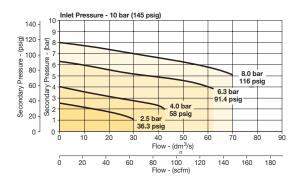
Repair and Service Kits

Diaphragm repair kit - relieving	P32KB00RB
Diaphragm repair kit - non-relieving	P32KB00RC
Panel mount nut - aluminum	P32KA00MM
Panel mount nut - plastic	P32KA00MP
Angle bracket (attaches via panel nut)	P32KB00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

Air Preparation Products Global Air Preparation

Flow Charts

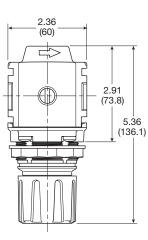
P32HB Common Port Regulator



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

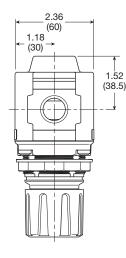
CAUTION:

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.



Inches (mm)

NOTE: 1.90 in. (48mm) hole required for panel nut mounting.



Gauges

0-4 bar	K4511SCR04B
0-11 bar	K4511SCR11B
0-60 psig	K4511SCR060
0-160 psig	K4511SCR160
0-4 bar	P6G-PR10040
0-11 bar	P6G-PR10110
0-60 psig	P6G-PR90060
0-160 psig	P6G-PR90160
0-30 psig / 0-2 bar	K4520N14030
0-60 psig / 0-4 bar	K4520N14060
0-160 psig / 0-11 bar	K4520N14160
0-300 psig / 0-20 bar	K4520N14300
	0-11 bar 0-60 psig 0-160 psig 0-4 bar 0-11 bar 0-60 psig 0-160 psig 0-30 psig / 0-2 bar 0-60 psig / 0-4 bar 0-160 psig / 0-11 bar

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

B

Lubricators





B29

Operating information

and 14.5 psig (1 bar) pressure drop.

P33 Regulators – Standard

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Secondary pressure ranges
- · Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation

Gauge

None

Round

Round

None

- Relieving & non-relieving types
- Non-rising knob

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Port Size

1/2"

1/2"

3/4"

3/4"



Se wi

Description

125 psig (8 bar)

125 psig (8 bar)

125 psig (8 bar)

125 psig (8 bar)

(Relieving)

Non-relieving regulator

elf relieving	regulator
ith gauge	-

Part Number

P33RA94BNNP

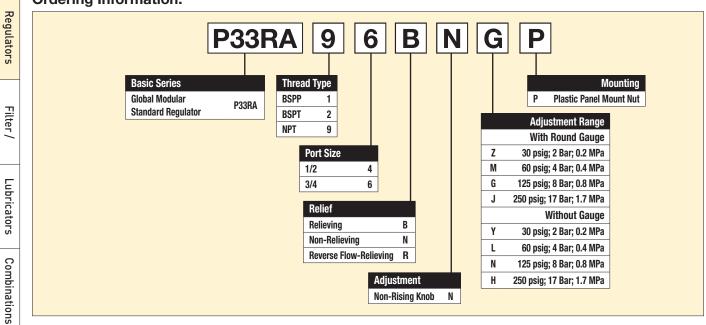
P33RA94BNGP

P33RA96BNNP

P33RA96BNGP

epolaring mornation	
Flow capacity*: 1/2, 3/4	233 scfm (110 dm³/s, ANR)
Operating temperature:	-13°F to 150°F (-25°C to 65.5°C)
Supply pressure (max):	300 psig (20 bar)
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)
Gauge port (2 each):	1/4 NPT, BSPP, BSPT
Weight:	1.37 lb (0.62 kg)
* Inlet pressure 145 psig (10 bar)	. Secondary pressure 91.3 psig (6.3 bar)

Ordering Information:





Most popular.



Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Body cap	ABS
Bonnet	Glass-filled nylon
Diaphragm assembly	Nitrile / zinc
Valve assembly	Brass / nitrile
Springs	Steel, stainless steel
Seals	Nitrile
Panel nut	Acetal

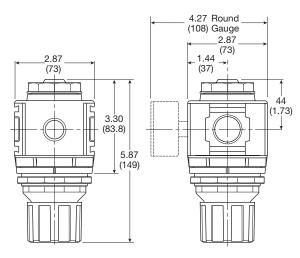
Repair and Service Kits

Diaphragm repair kit - relieving	P33KA00RB
Diaphragm repair kit - non-relieving	P33KA00RC
Panel mount nut - aluminum	P33KA00MM
Panel mount nut - plastic	P33KA00MP
Angle bracket (attaches via panel nut)	P33KA00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

🗥 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.



Inches (mm)

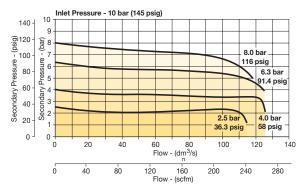
NOTE: 2.40 in. (61mm) hole required for panel nut mounting.



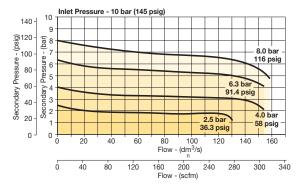
Air Preparation Products Global Air Preparation

Flow Charts

P33RA 1/2" Regulator



P33RA 3/4" Regulator



Gauges

50mm (2") round 1/4" center back mount	0-30 psig / 0-2 bar	K4520N14030
	0-60 psig / 0-4 bar	K4520N14060
mount	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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

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For inventory, lead times, and kit lookup, visit www.pdnplu.com

B31

B

Global Air Preparation

Filters

Filter /

Lubricators

control signal

U Р

Part Number

P31PA92AD2VD1A

P32PA94AD2VD1A

P31P & P32P Proportional Regulators

- Very fast response times
- Accurate output pressure
- Parameter settings

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators

.

Port

Size

1/4"

1/2"

- Selectable I/O parameters
- Quick, full flow exhaust
- LED display indicates output pressure

24 VDC

- No air consumption in steady state
- Multiple mounting options
- Protection to IP65



P31P Series Bottom exhaust



Operating information

1 0				
Flow capacity*:	P31P P32P	40 scfm (19 dm³/s, ANR) 120 scfm (57 dm³/s, ANR)		
Temperature range:		32°F to 122°F (0°C to 50°C)		
Supply pressure (ma 2 bar unit 10 bar unit	ax):	36.3 psig (2.5 bar) 152 psig (10.5 bar)		
Operating pressure	(min):	P2 pressure + 7.3 psig (0.5 bar)		
Working medium:		Compressed air or inert gasses, filtered to 40μ		
Pressure range:		0 to 30 psig (0 to 2 bar) 0 to 145 psig (0 to 10 bar)		
Weight:	P31P P32P	0.64 lb (0.291 kg) 1.42 lb (0.645 kg)		
* Inlet pressure 91.3 psig (6.3 bar), inlet pressure and 4.9 psig (0.34 bar) pressure drop.				

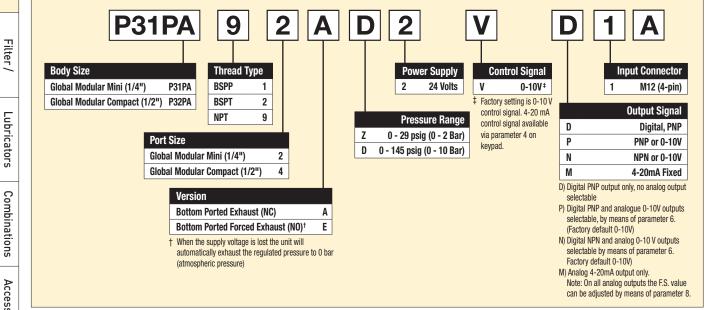


Description

3

145 psig (0-10 bar), NC 0-10V

145 psig (0-10 bar), NC 0-10V



and Kits

Most popular.



B32

(Revised 01-30-18)

Air Preparation Products **Global Air Preparation**

Flow Charts

Technical Information

Accuracy

+/- 1.0% of F.S.*

* Full scale (F.S.) - For 2 bar (29 psig) versions this will be 2 bar (29 psig), for the 10 bar (145 psig) version full scale will be 10 bar (145 psig).

Air consumption

No consumption in stable regulated situation.

Display

The regulator is provided with a digital display, indicating the output pressure, either in bar or psig.

The factory setting is as indicated on the label, can be changed through to software at all times (parameter 14)

Supply voltage

24 VDC +/- 10%

Power consumption

Max. 1.1W with unloaded signal outputs

Control signals

The electronic pressure regulator can be externally controlled through an analogue control signal of either 0-10V or 4-20mA. (parameter 4).

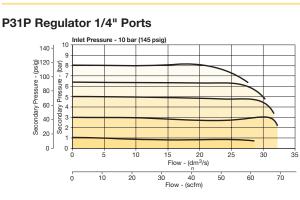
Output signals

As soon as the output pressure is within the signal band a signal is given of 24VDC, PNP Ri = 1 kOhm Outside the signal band this connection is 0V.

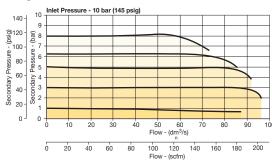
Connections

(In case of output signal (Option D) Central M12 connector 4-pole The electrical connections are as follows:

Pin No.		Function	Color	
1	24 V	Supply	Brown	
2	0 to 10 V	Control Signal Ri = 100k Ω	White	
2	4 to 20mA	Control Signal Ri = 500 Ω	vvnite	
3	0 V (GND)	Supply & Set Point Ground	Blue	
4	24 V	Alarm Output Signal	Black	



P32P Regulator 1/2" Ports



Degree of protection: IP65

EU conformity

CE: standard

EMC: according to directive 89/336/EEC This pressure regulator is in accordance with:

EN 61000-6-1:2001	EN 61000-6-2:2001
EN 61000-6-3:2001	EN 61000-6-4:2001

Mounting position

Preferably vertical, with the cable gland on top.

Materials: P31P & P32P

Magnet core	Steel
Solenoid valve poppet	FPM
Solenoid valve housing	Techno polymer
Regulator body (P31P & P32P versions)	Aluminum
Regulator top housing	Nylon
Valve head	Brass & NBR
Remaining seals	NBR

Filters

Regulators

Lubricators



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B33

How to change parameters - How to Videos available at www.parker.com/pneu/propreg

Pressing the Accept key "acc" for more than 3 seconds, will activate parameter change mode. The user can then select the parameters by pressing up or down key (display will show Pxx). When parameter number is correct, pressing accept again will enter parameter number (display will show parameter value).

Pressing the up or down key will change the parameter itself (display will flash indicating parameter editing mode). Pressing the accept key will accept the new parameter value (all digits will flash whilst being accepted).

After releasing all keys, the next parameter number will be presented on the display (you may step to the next parameter). When no key is pressed, after 3 seconds the display will show the actual output pressure. When the unit is initially powered up allow approximately 10 seconds for the unit to "boot-up" before changing parameter settings.

Only parameter numbers 0, 4, 6, 8, 9, 14, 18, 19, 20, 12, 13 and 21 are accessible to edit. All other parameters are fixed.

Manual mode:

When keys DOWN and UP are pressed during startup, (connecting to the 24V power supply) manual mode is activated. This means that the user is able to in/decrease the output pressure of the regulator, by pressing the UP or DOWN key. During this action the display will blink, indicating that the manual mode is activated. After powering up again, the unit will revert back to normal mode.

Back to Factory Setting

After start up. (Power is on)

B

Global Air Preparation

Introduction

Filter / Regulators

Lubricators

Combinations

Accessories and Kits Entering this value in parameter 0 will store the calibrated factory data into the working parameters. (Default calibration data is used)

Parameter Number 0 – Reset Back to Factory Settings

	Farameter Number 0 - Reset back to Factory Settings						
臣	Step	1	2	3	4	5	
Filters	Press	acc 3-6 seconds	or	acc	or	acc	
S	0	3-6 seconds					
Coalescers	Until Display Reads	$P_{\times \times}$	<i>P</i>	Flashing Decimal	Flashing Decimal	Flashing	<i>P</i> []
Regulators	Description	Accesses changeable parameters.	Accesses parameter no. 0.	Displays current parameter value.	Edits parameter. 3 = standard factory settings. If other than 3, use Up or Down Arrow and accept 3	Accepts and saves new parameter setting.	Sequences to next parameter.
		parameters.	parameter no. 0.	parameter value.	accept 3	second.	next parameter.

Set Control Signal

The unit is factory set for 0-10 V control signal. If 4-20 mA control signal is required, change parameter 4.

Parameter Number 4 – Set Control Signal in Volts or Milliamps

	Parameter Number 4 – Set Control Signal in Volts of Milliamps						
-	Step	1	2	3	4	5	
	Press	acc 3-6 seconds	or	acc	or	acc	
•	Until Display Reads	Pxx	Р <u>П</u> Ч	Flashing Decimal	Flashing Decimal	Flashing	POS
	Description	Accesses changeable parameters.	Accesses parameter no. 4.	Displays current parameter value. 1 = V 0 = mA	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.

How to Videos at www.parker.com/pneu/propreg



Set Output Signal

Parameter 6 is used to set the type of output signal to your PLC. This parameter is used as follows:

Output Signal option "0" = Digital Output - PNP

• Factory set at "0" Non Adjustable

Output Signal option "P" = Digital PNP or Analog 1-10V

- Factory set at "1" for Analog Signal
- Convert to Digital PNP by changing parameter to "0" setting

Output Signal option "N" = Digital NPN or Analog 1-10V

- Factory set at "1" Analog Signal
- Convert to Digital NPN by changing parameter to "0"
- Output Signal option "M" = Analog 4-20 mA
 - Factory set at "2" Non Adjustable

Convert to Digital PNP by changing parameter to "0" setting Factory set at "2" Non Adjustable							Global Air Preparation
Parameter N	umber 6 – Set	Output Signa	I				Gl
Step	1	2	3	4	5		
Press	acc 3-6 seconds	or	acc	or	acc		Introduction
Until Display Reads	$P_{\times \times}$	<i>P</i> 05	Flashing Decimal	Flashing Decimal (Value 0, 1 or 2)	# # # . Flashing	<i>P</i> []7	
Description			Displays current parameter value. 1 = m factory	Edits parameter. 0 = digital	Accepts and		Filters
Description	Accesses changeable parameters.	Accesses parameter no. 6.	default for P3H with analog options	(NPN or PNP) 1 = analog 010V 2 = analog 420 mA	saves new parameter setting.	Sequences to next parameter.	escers

Adjust Span Analog Output Signal

Set value is a % of Full Analog range. As an example for a 0-10V output signal, the original factory setting of 100% will give you an adjustment of 0-10V. If you reset Parameter 8 to 50%, the new output range would be 0-5V or 50% of the full range.

In the event that the output signal is to low, in a certain application, you can adjust it by increasing Parameter 8 to a maximum value of 130% of scale.

Note that all values are nominal and that an actual measurement may be required to ensure signal strength.

Parameter Number 8 – Adjust Span Analog Output Signal							er/
Step	1	2	3	4	5		Filter /
Press	acc	or	acc	or			
							ស
	3-6 seconds						atoi
Until Display Reads	$P_{\times \times}$	P08		###	###	pnq	Lubricators
neads			Flashing Decimal	Flashing Decimal			ns
			(For 2 bar versions value = 92)	(Value between 0 and 130)	Flashing		natio
					Accepts and saves new		Combinations
					parameter		Ŭ
Description	Accesses				setting and implements the		s
	changeable	Accesses	Displays current		new analog signal	Sequences to	ccessories and Kits
	parameters.	parameter no. 8.	parameter value.	Edits parameter.	span.	next parameter.	K



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B

Regulators

Adjust Digital Display

Preparation

Coalescers

Combinations

If necessary, adjustments can be made to the digital display when using an external pressure sensor.

	Parameter Number 9 – Adjust Digital Display Value (Pressure Calibration)						
B	Step	1	2	3	4	5	
D	Press						
Global Air Preparation		acc 3-6 seconds	or	acc	or	acc	
Air	Until Display Reads	P××	P[]q	###.	###.	###	P 10
Intro				Flashing Decimal	Flashing Decimal	Flashing	
Introduction	Description				Use up or down arrows and accept to adjust the display	Accepts and	
Filters		Accesses changeable parameters.	Accesses parameter no. 9.	Displays current digital display	value if using an external pressure sensor.	saves new parameter setting.	Sequences to next parameter.

Set Pressure Scale

Units with NPT port threads are supplied with a factory set psig pressure scale. Use parameter 14 to change scale to bar.

ਸ	Parameter Nu	umber 14 – Se	t Pressure Sca	ale in psig or b	bar		
legu	Step	1	2	3	4	5	
Regulators	Press		or		or		
R		3-6 seconds))))		
Filter / Regulators	Until Display Reads	$P_{\times \times}$	P 14	00 l.		000	P
_				Flashing Decimal	Flashing Decimal	Flashing	
Lubricators	Description	Accesses changeable parameters.	Accesses parameter no. 14.	Displays current parameter value. 1 = psig 0 = bar 2 = MPa	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.
-						9-	

How to Videos at www.parker.com/pneu/propreg



Preset Minimum Pressure

If there is a need for a pre-set Minimum pressure, use parameter 18. (Note: preset pressure is affected by % P19.)

Parameter Number 18 – Set Minimum Preset Pressure							
Step	1	2	3	4	5		D
Press	acc 3-6 seconds	or	acc	or	acc		Air ion
Until Display Reads	P _{××}	P 18	<u></u>	# # # Flashing Decimal (value between	# # #	p;q	
			Flashing Decimal Displays current parameter value. Incremental value is:	0 and 200)	Flashing		Introduction
Description	Accesses changeable parameters.	Accesses parameter no. 18.	<u>2 bar unit:</u> x 2 mbar x % P19 <u>10 bar unit:</u> x 10 mbar x % P19	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.	Filters

Set Pressure Correction

Pressure correction allows the user to set a Maximum pressure as a percentage of secondary pressure F.S.

Example: If F.S. is 10 bar, set parameter 19 to 50 for Maximum preset pressure of 5 bar.

Pressure correction also affects the Minimum preset pressure in parameter 18.

Example: If F.S. is 10 bar and parameter 18 is set to a value of 100 (1 bar), and parameter 19 is set to 50%, then the actual Minimum preset pressure seen is 0.5 bar.

Parameter Number 19 – Set Maximum Preset Pressure							
Step	1	2	3	4	5		-/ tors
Press	acc 3-6 seconds	or	acc	or	acc		Filter / Regulators
Until Display Reads	P××	P 19		# # # Flashing Decimal	###	<i>P2</i> 0	Lubricators
			Flashing Decimal	(value between 0 and 100)	Flashing		tions
Description	Accesses	Accesses	Displays current parameter value. Incremental value is:		Accepts and saves new	Soguenese to	Combinations
	changeable parameters.	parameter no. 19.	% of F.S.	Edits parameter.	parameter setting.	Sequences to next parameter.	sories Kits
How to Videos at	t www.parker.com	/pneu/propreg					Accessories and Kits

C



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Coalescers

Regulators

Behavior Control

Preparation

Regulators

The regulation speed of the pressure regulator can be modified by means of one parameter. (P 20) The value in this parameter has a range from 0-5. A higher value indicates slower regulation speed, but will be more stable.

	Parameter Nu	mber 20 – Se	t Behavior Co	ntrol			
B	Step	1	2	3	4	5	
	Press						
Global Air		3-6 seconds	or		or		
, I.	Until Display Reads	$P_{\times \times}$	<i>b50</i>	003.	###.	###	<i>P2</i> /
Introduction				Flashing Decimal	Flashing Decimal (value between 0 and 5)	Flashing	
uction					Edits parameter 0 = custom set* 1 = fastest		
Filters	Description				(narrow proportional band) 2 = fast 3 = normal 4 = slow	Accepts and	
Coal		Accesses changeable parameters.	Accesses parameter no. 20.	Displays current parameter value.	5 = slowest (proportional band is broad)	saves new parameter setting.	Sequences to next parameter.
Coalescers	* When the value 0 is	s entered, you are al	ole to create your ow	n custom settings tr	rue parameters 12, 1	3 and 21.	

Fine Settings Set Proportional Band

Proportional band is used for setting the reaction sensitivity of the regulator. The displayed value is X 10 mbar and has a range between 50 (0.5 bar) and 250 (2.5 bar).

	Parameter Nu	mber 12 – Sei	Proportional	Band (P20 Mu	ust be Set to 0)	
Reg	Step	1	2	3	4	5	
Filter / Regulators	Press	acc 3-6 seconds	or	acc	or	acc	
Lubricators	Until Display Reads	$P_{\times \times}$	P 12		# # # Flashing Decimal	###	P
Con				Flashing Decimal	(value between 50 and 250)	Flashing	
Combinations	Description	Accesses changeable	Accesses parameter no.	Displays current parameter value. Incremental value is:		Accepts and saves new parameter	Sequences to
Accessories and Kits	How to Videos at	parameters. www.parker.com	12. /pneu/propreg	x 10 mbar	Edits parameter.	setting.	next parameter.

C אהגי

Set Deadband

Deadband is the Minimum limit of accuracy at which the regulator is set for normal operation. The displayed value is X 10 mbar and has a range between 4 (40 mbar) and 40 (400 mbar).

Parameter Number 13 – Set Deadband (P20 Must be Set to 0)							
Step	1	2	3	4	5		B
Press	acc 3-6 seconds	or	acc	or	acc		Global Air Preparation
Until Display Reads	$P_{\times \times}$	P 13	<u>0 15</u>	# # # .	# # #	Р ¦Ч	Glo Prep
			Flashing Decimal	(value between 4 and 40)	Flashing		tion
Description	Accesses changeable	Accesses	Displays current parameter value. Incremental value is		Accepts and saves	Sequences to next	Introduction
parameters. parameter no. 13. x 10 mbar Edits parameter. setting. parameter. Proportional Effect Parameter Number 21 – Set Proportional Effect (P20 Must be Set to 0)							Filters
Step	1	2	3	4	5		
Press							

	Step	1	2	3	4	5		
F	Press	acc 3-6 seconds	or	acc	or	acc		Coalescers
	l Display leads	Pxx	<i>P2</i>	Flashing Decimal	Flashing Decimal (value between 5 and 100)	# # #	<i>P22</i>	Regulators
Des	cription	Accesses changeable parameters.	Accesses parameter no. 21.	Displays current parameter value.	Edits parameter. 5 = fastest regulation 100 = slowest regulation.	Accepts and saves new parameter setting.	Sequences to next parameter.	-ilter/

Parameter Number 39 – Displays Current Software Version

Step	1	2	3
Press	acc 3-6 seconds	or	acc
Until Display Reads	Pxx	<i>P</i> 39	# # # Flashing Decimal
Description	Accesses changeable parameters.	Accesses parameter no. 39.	Displays current parameter value. XXX = current software version

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C



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Filter / Regulators

Lubricators

Combinations

Accessories and Kits

P31P

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators

Filter /

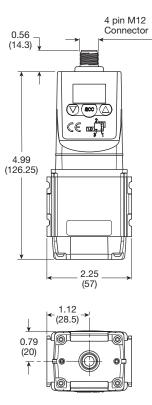
Lubricators

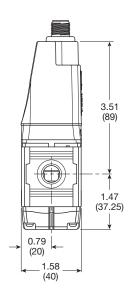
Combinations

Accessories

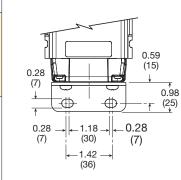
and Kits

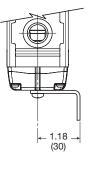
Dimensions inches (mm)



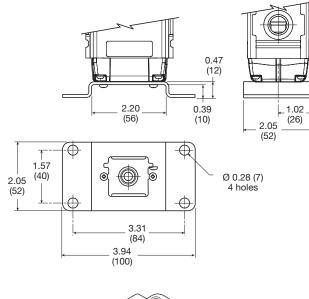


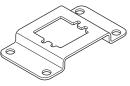
L-Bracket P3HKA00ML





Foot Bracket P3HKA00MC





Cables

 Description
 Part Number

 2 mtr. cable with moulded straight M12x1 connector
 CB-M12-4P-2M

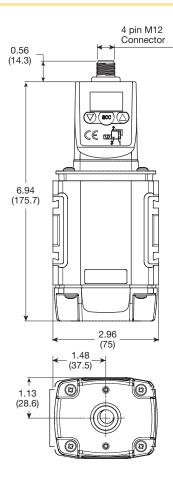
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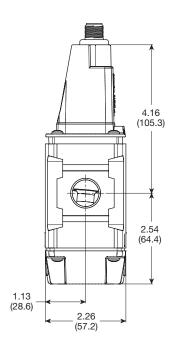


B40

P32P

Dimensions inches (mm)





2.20

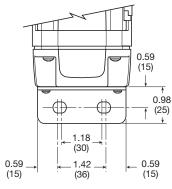
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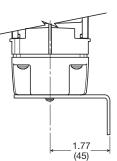
6

3.31 (84)

3.94 (100)

L-Bracket P3KKA00ML











Foot Bracket

P3KKA00MC

1.57

(40)

2.05 (52)

Parker Hannifin Corporation Pneumatic Division

0.47 (12)

A

1.02

(26) → _____ 2.05

Ø 0.28 (7) 4 holes (52)

Richland, Michigan www.parker.com/pneumatics

Global Air Preparation Introduction Filters Coalescers Regulators Filter / Regulators Lubricators Combinations Accessories and Kits

B

P31 Filter / Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation

Bowl /

Drain Type ‡

Poly / Manual

Poly / Pulse

Metal / Manual

Metal / Pulse

[‡] For polycarbonate bowl, see caution in Engineering Section A.

2

Part Number

P31EB92EGMBN5P

P31EB92EGBBN5P

P31EB92EMMBN5P

P31EB92EMBBN5P



Operating information	1				
Flow capacity*: 1/4	73 scfm (35 dm³/s, ANR)				
Operating temperature [‡] : Plastic bowl Metal bowl	14°F to 125°F (-10°C to 52°C) 14°F to 150°F (-10°C to 65.5°C)				
Supply pressure (max): Plastic bowl Metal bowl	150 psig (10 bar) 250 psig (17 bar)				
Standard filtration	5 micron				
Useful retention [†] :	0.4 US oz. (12 cm ³)				
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)				
Gauge port (2 each)**:	1/8 NPT, BSPP, BSPT				
Weight:	0.42 lb (0.19 kg)				
 Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop. ** Non-gauge option only. 					
 [‡] Units with square gauges: 5°F to 150 [†] Useful retention refers to volume bel 	· · · · · · · · · · · · · · · · · · ·				

Ordering Information:

Description

125 psig (8 bar)

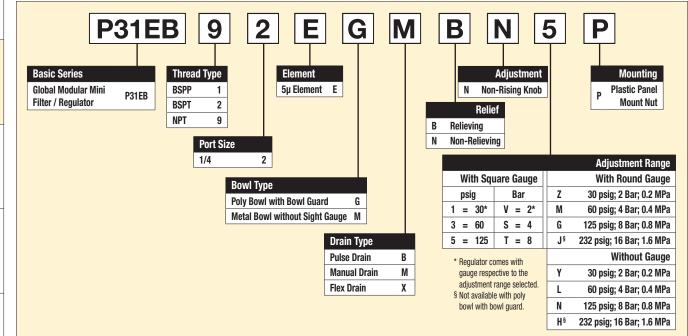
125 psig (8 bar)

125 psig (8 bar)

125 psig (8 bar)

(Relieving)

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates) Within ISO 8573-1: 2001 Class 6 (Particulates)



Most popular.



Combinations

Accessories and Kits Port

Size

1/4"

1/4"

1/4"

1/4"

B

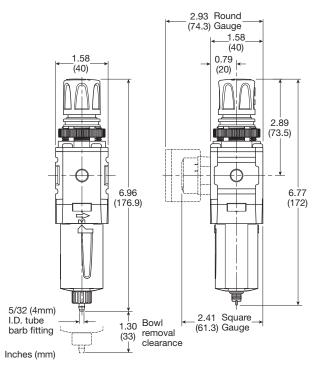
Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Body cap	ABS
Bonnet	PBT
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Filter element	Polyethylene
Seals	Nitrile
Springs	Steel
Valve assembly	Brass / Nitrile
Diaphragm assembly	Brass / Nitrile
Panel nut	Acetal

	-
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.



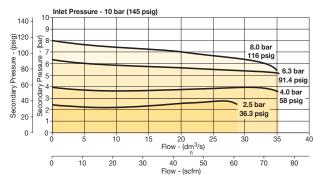
Manual Drain

Pulse Drain

Air Preparation Products Global Air Preparation

Flow Charts

P31EB 1/4" Filter / Regulator



Repair and Service Kits

Plastic bowl / bowl guard manual drain	P31KB00BGM
Plastic bowl / bowl guard pulse drain	P31KB00BGB
Metal bowl / w/o sight gauge pulse drain	P31KB00BMB
5µ particle filter element	P31KA00ESE
Diaphragm repair kit - relieving	P31KB00RB
Diaphragm repair kit - non-relieving	P31KB00RC
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB

Gauges

•		
Square flush	0-4 bar	K4511SCR04B
mount gauge	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160

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

B

Global Air Preparation

Introduction

Filters

Filter / Regulators

Lubricators

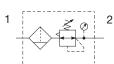
Combinations



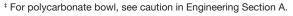
B43

P32 Filter / Regulators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation



Port Size	Description (Relieving)	Bowl / Drain Type ‡	Part Number
1/4"	125 psig (8 bar)	Poly / Manual	P32EB92EGMBNGP
1/4"	125 psig (8 bar)	Poly / Auto	P32EB92EGABNGP
1/4"	125 psig (8 bar)	Metal / Manual	P32EB92ESMBNGP
1/4"	125 psig (8 bar)	Metal / Auto	P32EB92ESABNGP
3/8"	125 psig (8 bar)	Poly / Manual	P32EB93EGMBNGP
3/8"	125 psig (8 bar)	Poly / Auto	P32EB93EGABNGP
3/8"	125 psig (8 bar)	Metal / Manual	P32EB93ESMBNGP
3/8"	125 psig (8 bar)	Metal / Auto	P32EB93ESABNGP
1/2"	125 psig (8 bar)	Poly / Manual	P32EB94EGMBNGP
1/2"	125 psig (8 bar)	Poly / Auto	P32EB94EGABNGP
1/2"	125 psig (8 bar)	Metal / Manual	P32EB94ESMBNGP
1/2"	125 psig (8 bar)	Metal / Auto	P32EB94ESABNGP
	1 8 ()		



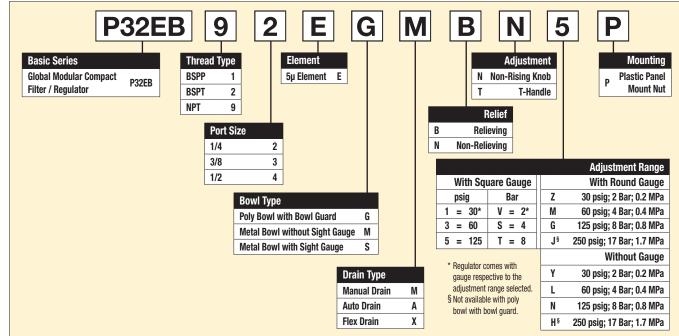
Ordering Information:



Operating information

Flow capacity*:	1/4 3/8 1/2	148 scfm (70 dm3/s, ANR) 158 scfm (75 dm3/s, ANR) 164 scfm (77 dm3/s, ANR)
Operating tempera Plastic bowl Metal bowl	ature:	-13°F to 125°F (-25°C to 52°C) -13°F to 150°F (-25°C to 65.5°C)
Supply pressure (r Plastic bowl Metal bowl	nax):	150 psig (10 bar) 250 psig (17 bar)
Standard filtration:		5 micron
Useful retention [†] :		1.7 US oz. (51 cm ³)
Adjusting range pr	ressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)
Gauge port (2 eac	h):	1/4 NPT, BSPP, BSPT
Weight:		1.17 lb (0.53 kg)
 Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop. [†] Useful retention refers to volume below the quiet zone baffle. 		

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates) Within ISO 8573-1: 2001 Class 6 (Particulates)



Most popular.



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B

Global Air Preparation

Introduction

Filters

Coalescers

Accessories

and Kits

Air Preparation Products Global Air Preparation

P32EB 1/4" Filter / Regulator

10

ő 20 40

10 140

(bar

P32EB3/8" Filter/Regulator

10 20 30

10 20 30

0 20 40 60

let Pressure - 10 bar (145 psig

ő 20 40 60

P32EB 1/2" Filter/Regulator

20

Inlet Pressure - 10 bar (145 psig

30

Inlet Pressure - 10 bar (145 psig)

Flow Charts

140 (b) 120 (bar)

100

60 -

40

20 0 0

0

140

(bisd) (bisd) bar) 100

Secondary Pressure -80 60

40 20

> 0 ſ

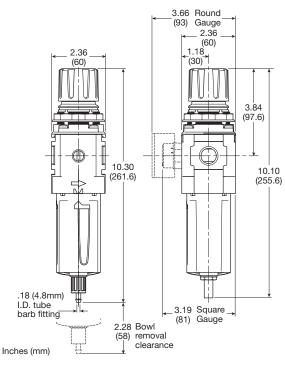
Secondary Pressure -80 -

Material Specifications

-	
Body	Aluminum
Adjustment knob	Acetal
Element retainer / baffle	Acetal
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Filter element	Sintered polyethylene
Seals	Nitrile
Springs	Steel, stainless steel
Valve assembly	Brass / nitrile
Diaphragm assembly	Nitrile / zinc
Panel nut	Acetal
Sight gauge	Nylon

Repair and Service Kits

-	
Plastic bowl / bowl guard manual drain	P32KB00BGM
Metal bowl / sight gauge manual drain	P32KB00BSM
Auto drain	P32KA00DA
5µ particle filter element	P32KA00ESE
Diaphragm repair kit - relieving	P32KB00RB
Diaphragm repair kit - non-relieving	P32KB00RC
Panel mount nut - aluminum	P32KA00MM
Panel mount nut - plastic	P32KA00MP
Angle bracket (fits to panel mount threads)	P32KB00MR
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB



Manual Drain

1 ЯΠ

Automatic Drain

Global Air Preparation

Introduction

Regulators Filter /

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Accessories

and Kits

6.3 bar 91.4 psig

2.5 bar 36.3 psi

70 80 90

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

🗥 WARNING

40 50 Flow - (dm³/s)

120 140 160 180

80 100 Flow - (scfm)

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Gauges

50mm (2") round	0-30 psig / 0-2 bar	K4520N14030
1/4" center back mount	0-60 psig / 0-4 bar	K4520N14060
mount	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300
For best performance, r	equilated pressure should always b	be set by increasing the

pressure up to the desired setting.

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8.0 bar 116 psig

80

160

8.0 bar 116 psig

80 90

8.0 baı 16 psi

6.3 bar 91.4 psi 4.0 bar 58 psig

70

6.3 bar 91.4 psig

70

4.0 bar 58 psig

60

120 140

2.5 bar 36.3 psig

50

100

2.5 bar 36.3 psig

60

120 140 160 180

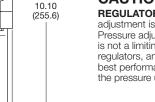
40 50 Flow - (dm³/s)

80 100 Flow - (scfm)

40

80 - (SCFM)

Flow - (dm³/s) 60 Flow -



P32 Semi-Precision Filter / Regulators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- · High efficiency 5 micron element as standard
- Excellent water removal efficiency
- · Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation



Port Size	Description / Relieving	Bowl / Drain Type ‡	Part Number
1/4"	125 psig (8 bar)	Poly / Manual	P32EB92EGMPNGP
1/4"	125 psig (8 bar)	Poly / Auto	P32EB92EGAPNGP
1/4"	125 psig (8 bar)	Metal / Manual	P32EB92ESMPNGP
1/4"	125 psig (8 bar)	Metal / Auto	P32EB92ESAPNGP
3/8"	125 psig (8 bar)	Poly / Manual	P32EB93EGMPNGP
3/8"	125 psig (8 bar)	Poly / Auto	P32EB93EGAPNGP
3/8"	125 psig (8 bar)	Metal / Manual	P32EB93ESMPNGP
3/8"	125 psig (8 bar)	Metal / Auto	P32EB93ESAPNGP
1/2"	125 psig (8 bar)	Poly / Manual	P32EB94EGMPNGP
1/2"	125 psig (8 bar)	Poly / Auto	P32EB94EGAPNGP
1/2"	125 psig (8 bar)	Metal / Manual	P32EB94ESMPNGP
1/2"	125 psig (8 bar)	Metal / Auto	P32EB94ESAPNGP

[‡] For polycarbonate bowl, see caution in Engineering Section A.

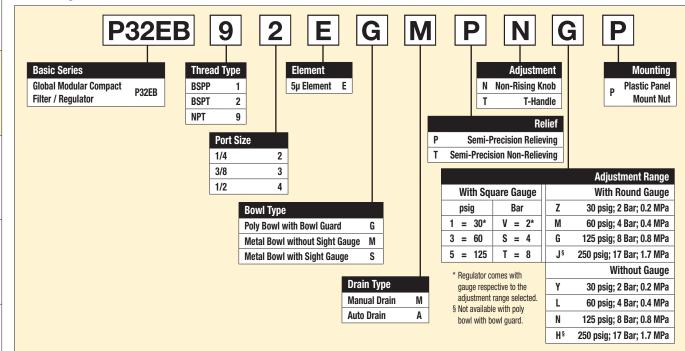
Ordering Information:



Operating information

Flow capacity*: 1/4, 3/8, 1/2 Effect of supply pressure variation	75 scfm (35 dm³/s, ANR) 0.6 psig (0.04 bar) for 25 psig (1.7 bar) change in P1		
Operating temperature: Plastic bowl Metal bowl	-13°F to 125°F (-25°C to 52°C) -13°F to 150°F (-25°C to 65.5°C)		
Supply pressure (max):Plastic bowl150 psig (10 bar)Metal bowl250 psig (17 bar)			
Standard filtration: 5 micron Useful retention [†] : 1.7 US oz. (51 cm ³)			
Adjusting range pressure: 0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)			
Gauge port (2 each): 1/4 NPT, BSPP, BSPT			
Weight: 1.17 lbs (0.53 kg)			
 * Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop. † Useful retention refers to volume below the quiet zone baffle. 			
Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates)			

Within ISO 8573-1: 2001 Class 6 (Particulates)



Most popular.



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

B

Global Air Preparation

Introduction

Filters

Coalescers

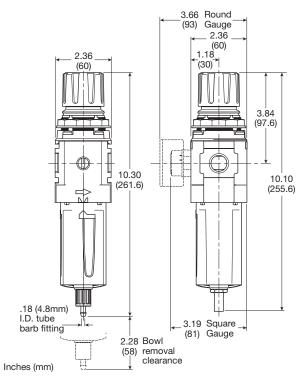
Accessories and Kits

Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Element retainer / baffle	Acetal
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Filter element	Sintered polyethylene
Seals	Nitrile
Springs	Steel, stainless steel
Valve assembly	Brass / nitrile
Diaphragm assembly	Nitrile / zinc
Panel nut	Acetal
Sight gauge	Nylon

Repair and Service Kits

-	
Plastic bowl / bowl guard manual drain	P32KB00BGM
Metal bowl / sight gauge manual drain	P32KB00BSM
Auto drain	P32KA00DA
5µ particle filter element	P32KA00ESE
Diaphragm repair kit - relieving	P32KB00RB
Diaphragm repair kit - non-relieving	P32KB00RC
Panel mount nut - aluminum	P32KA00MM
Panel mount nut - plastic	P32KA00MP
Angle bracket (fits to panel mount threads)	P32KB00MR
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB



Manual Drain

ain		

Automatic Drain

B47

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

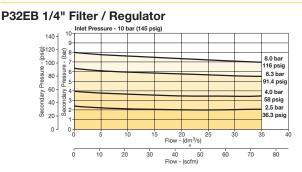
Combinations

Accessories

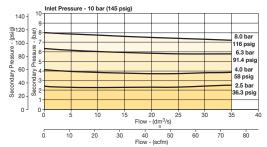
and Kits

Air Preparation Products

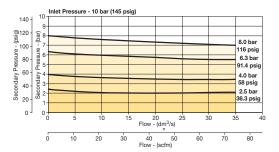
Flow Charts



P32EB 3/8" Filter/Regulator



P32EB 1/2" Filter/Regulator



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.

Gauges

50mm (2") round	0-30 psig / 0-2 bar	K4520N14030
1/4" center back mount	0-60 psig / 0-4 bar	K4520N14060
mount	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300
For best performance, regulated pressure should always be set by increasing the		

pressure up to the desired setting.

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

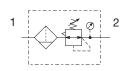


C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

P33 Filter / Regulators – Standard

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation



Port Size	Description / Relieving	Bowl / Drain Type ‡	Part Number
1/2"	125 psig (8 bar)	Poly / Manual	P33EA94EGMBNGP
1/2"	125 psig (8 bar)	Poly / Auto	P33EA94EGABNGP
1/2"	125 psig (8 bar)	Metal / Manual	P33EA94ESMBNGP
1/2"	125 psig (8 bar)	Metal / Auto	P33EA94ESABNGP
3/4"	125 psig (8 bar)	Poly / Manual	P33EA96EGMBNGP
3/4"	125 psig (8 bar)	Poly / Auto	P33EA96EGABNGP
3/4"	125 psig (8 bar)	Metal / Manual	P33EA96ESMBNGP
3/4"	125 psig (8 bar)	Metal / Auto	P33EA96ESABNGP

[‡] For polycarbonate bowl, see caution in Engineering Section A.

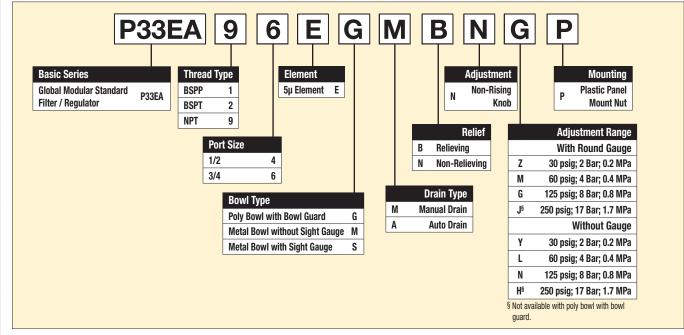
Ordering Information:



Operating information

0 scfm (94 dm³/s, ANR) 5 scfm (109 dm³/s, ANR)		
3°F to 125°F (-25°C to 52°C)		
3°F to 150°F (-25°C to 65.5°C)		
0 psig (10 bar)		
0 psig (17 bar)		
nicron		
5 US oz. (85 cm³)		
o 30 psig (0 to 2 bar)		
o 60 psig (0 to 4 bar)		
o 125 psig (0 to 8 bar)		
o 250 psig (0 to 17 bar)		
1 NPT, BSPP, BSPT		
37 lbs (0.85 kg)		
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar)		
and 14.5 psig (1 bar) pressure drop. [†] Useful retention refers to volume below the quiet zone baffle.		

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates) Within ISO 8573-1: 2001 Class 6 (Particulates)



Most popular.

Accessories and Kits



B

(Revised 03-14-19)

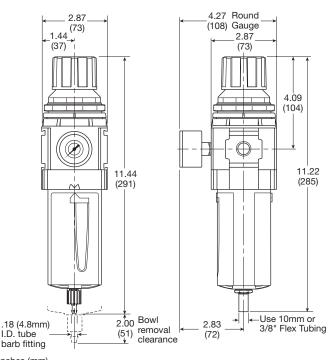
Air Preparation Products Global Air Preparation

Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Body cap	ABS
Element retainer / baffle	Acetal
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Filter element	Sintered Polyethylene
Seals	Nitrile
Springs	Steel, stainless steel
Valve assembly	Brass / nitrile
Diaphragm assembly	Nitrile / zinc
Panel nut	Acetal
Sight gauge	Nylon

Repair and Service Kits

Plastic bowl / bowl guard, manual drain	P33KA00BGM
Metal bowl / sight gauge, manual drain	P33KA00BSM
Auto drain	P32KA00DA
5µ particle filter element	P33KA00ESE
Diaphragm repair kit - Relieving	P33KA00RB
Diaphragm repair kit - Non-relieving	P33KA00RC
Panel mount nut - Aluminum	P33KA00MM
Panel mount nut - Plastic	P33KA00MP
Angle bracket (fits to panel mount threads)	P33KA00MR
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB

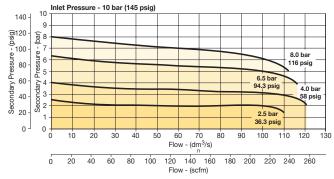


Inches (mm)

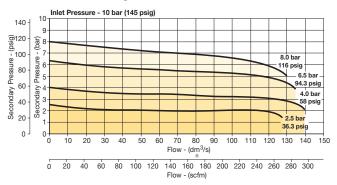
Manual Drain

Automatic Drain

Flow Charts P33EA 1/2" Filter / Regulator



P33EA 3/4" Filter/Regulator



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.

Gauges

50mm (2") round	0-30 psig / 0-2 bar	K4520N14030
1/4" center back mount	0-60 psig / 0-4 bar	K4520N14060
mount	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

Combinations



C

B49

B

Global Air Preparation

Introduction

Filters

Coalescers

P31 Lubricators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Proportional oil delivery over a wide range of air flows
- Finger tip ratchet control for precise oil drip rate adjustment



with drain

Port Size	Description [‡]	Part Number
1/4"	Poly Bowl - No Drain	P31LB92LGNN
1/4"	Metal Bowl - No Drain	P31LB92LMNN

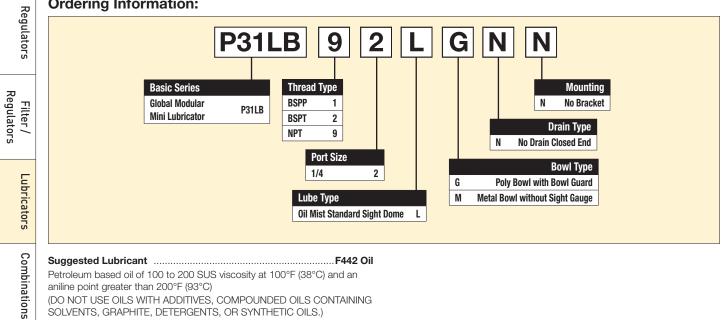
[‡] For polycarbonate bowl, see caution in Engineering Section A.



Operating information

Flow capacity*:		
1/4	52 scfm (25 dm³/s, ANR)	
Operating temperature: Plastic bowl	14% to $105%$ ($10%$ to $50%$	
Metal bowl	14°F to 125°F (-10°C to 52°C) 14°F to 150°F (-10°C to 65.5°C)	
Supply pressure (max):		
Plastic bowl	150 psig (10 bar)	
Metal bowl	250 psig (17 bar)	
Bowl capacity:	0.6 US oz. (18 cm ³)	
Weight:	0.29 lb (0.13 kg)	
* Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar).		

Ordering Information:



Petroleum based oil of 100 to 200 SUS 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.)

Accessories Most popular.

and Kits



B50

Catalog 0700P-8 Mini Lubricators

Material Specifications

Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Seals	Nitrile
Sight dome	Polycarbonate
Suggested lubricant	ISO / ASTM VG32
Pick-up filter	Sintered bronze

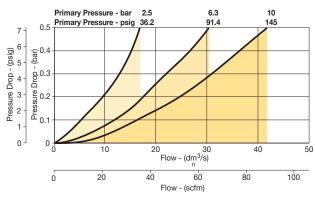
Repair and Service Kits

Plastic bowl / bowl guard no drain	P31KB00BGN
Metal bowl / w/o sight gauge no drain	P31KB00BMN
Drip control assembly	P32KA00PG
Fill plug	P31KA00PL
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

Air Preparation Products **Global Air Preparation**

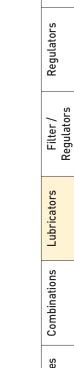
Flow Charts

P31LB 1/4" Lubricator



1.58 (40) 0.79 1.58 (40) (20) ∭H!∥ 2.22 тнп (56.3) 5 6.04 (153.3) 1.30 Bowl removal (33) clearance

Inches (mm)



B

Global Air Preparation

Introduction

Filters

Coalescers

Parker

P32 Lubricators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- · Robust but lightweight aluminum construction
- Proportional oil delivery over a wide range of air flows
- · Finger tip ratchet control for precise oil drip rate adjustment
- Fill from top under system pressure

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Port

Size

1/4"

1/4"

3/8"

3/8"

1/2"

1/2"



with drain

Part Number

P32LB92LGNN

P32LB92LSNN

P32LB93LGNN

P32LB93LSNN

P32LB94LGNN

P32LB94LSNN



Operating informati	on
Flow capacity*: 1/4 3/8 1/2	38 scfm (17 dm³/s, ANR) 70 scfm (33 dm³/s, ANR) 90 scfm (42 dm³/s, ANR)
Operating temperature: Plastic bowl Metal bowl	14°F to 125°F (-10°C to 52°C) 14°F to 150°F (-10°C to 65.5°C)
Supply pressure (max): Plastic bowl Metal bowl	150 psig (10 bar) 250 psig (17 bar)
Bowl capacity:	4.09 US oz. (121 cm ³)
Weight:	0.68 lb (0.31 kg)
* Inlet pressure 91.3 psig (6.3 bar)	. Pressure drop 4.9 psig (0.34 bar).

⁺ For polycarbonate bowl, see caution in Engineering Section A.

Ordering Information:

Description [‡]

Poly Bowl - No Drain

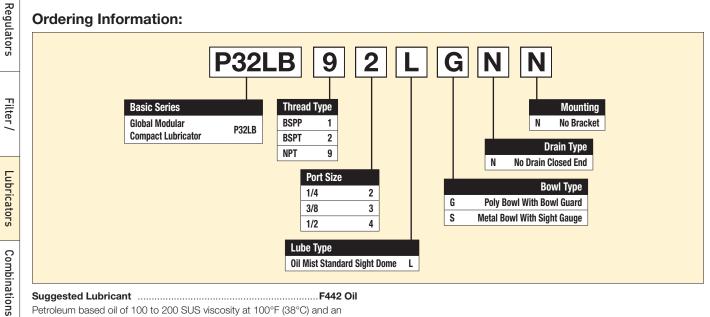
Metal Bowl - No Drain

Poly Bowl - No Drain

Metal Bowl - No Drain

Poly Bowl - No Drain

Metal Bowl - No Drain



aniline point greater than 200°F (93°C)

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

Most popular.

Accessories

and Kits





B52

(Revised 03-15-19)

Air Preparation Products Global Air Preparation

Primary Pressure - bar

Primary Pressure - psig

10

20

Primary Pressure - bar

10

20

Primary Pressure - bar

Primary Pressure - psig

20

40

30

60

1.6 23.2

30

60

40 5 Flow - (dm³/s) 50

80 10 Flow - (scfm)

100

ssure

20

40

30

60

1.6

23.2

1.6

23.2

40 5 Flow - (dm³/s) 50

4.0 6.3 58 91.4

40 5 Flow - (dm³/s)

80 100 Flow - (scfm)

50

4.0 58

80 100 Flow - (scfm)

4.0 6.3

58 91.4

60

10

145

60

6.3 91.4 10 145

60

120

70

140 160

80

120 140 160

70

80

120 140 160

Flow Charts

Pressure Drop - (psig) Dub - (par) - 0.3 - 0.2 - 0.2

P32LB 1/4" Lubricator

0.5 7 -

0. 1 0 -0

ő

P32LB 3/8" Lubricator

0.5 7 -

ό

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P32LB 1/2" Lubricator

0.5 7

Pressure Drop - (psig) Pressure Drop - (bar) 7.0 - 0.3 7.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 - 0.0 -

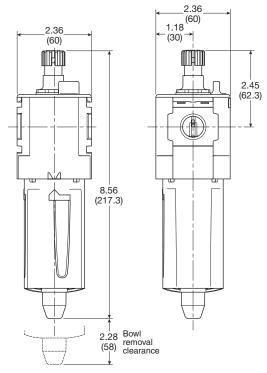
1 ر 0 0

Material Specifications

Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Seals	Nitrile
Sight dome	Polycarbonate
Sight gauge	Nylon
Suggested lubricant	ISO / ASTM VG32
Pick-up filter	Sintered bronze

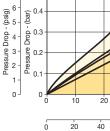
Repair and Service Kits

Plastic bowl / bowl guard no drain	P32KB00BGN
Metal bowl / w/o sight gauge no drain	P32KB00BMN
Metal bowl / Sight gauge no drain	P32KB00BSN
Drip control assembly	P32KA00PG
Fill plug	P32KA00PL
L-bracket (fits to body)	P32KA00ML
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB
Oil (1 quart)	F442001
Oil (1 galllon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005



Inches (mm)

Jarker



10

145

70



B

Introduction Filters

Lubricators

Combinations

Accessories and Kits



For inventory, lead times, and kit lookup, visit www.pdnplu.com

Q

B53

P33 Lubricators – Standard

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Proportional oil delivery over a wide range of air flows
- · Finger tip ratchet control for precise oil drip rate adjustment
- Fill from top under system pressure

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators

Filter /

_ubricators

Combinations

Accessories and Kits



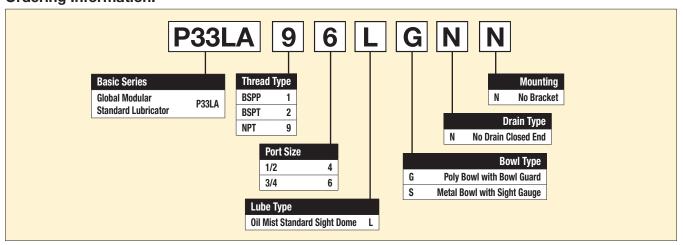


Operating information	ation
Flow capacity*: 1/2	110 scfm (52 dm³/s, ANR)
3/4	150 scfm (71 dm³/s, ANR)
Operating temperature: Plastic bowl Metal bowl	14°F to 125°F (-10°C to 52°C) 14°F to 150°F (-10°C to 65.5°C)
Supply pressure (max): Plastic bowl Metal bowl	150 psig (10 bar) 250 psig (17 bar)
Bowl capacity:	6.1 US oz. (181 cm³)
Weight:	1.04 lb (0.47 kg)
* Inlet pressure 91.3 psig (6.3 k	oar). Pressure drop 4.9 psig (0.34 bar).

Port Size	Description [‡]	Part Number
1/2"	Poly Bowl - No Drain	P33LA94LGNN
1/2"	Metal Bowl - No Drain	P33LA94LSNN
3/4"	Poly Bowl - No Drain	P33LA96LGNN
3/4"	Metal Bowl - No Drain	P33LA96LSNN

[‡] For polycarbonate bowl, see caution in Engineering Section A.

Ordering Information:



Petroleum based oil of 100 to 200 SUS 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.)

Most popular.



B54

(Revised 03-14-19)

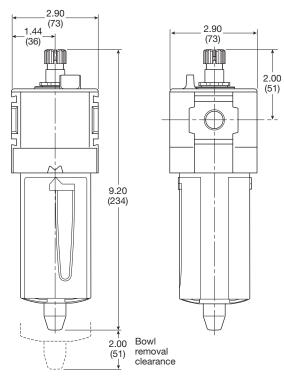
Air Preparation Products Global Air Preparation

Material Specifications

•	
Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Seals	Nitrile
Sight dome	Polycarbonate
Sight gauge	Nylon
Suggested lubricant	ISO / ASTM VG32
Pick-up filter	Sintered bronze

Repair and Service Kits

Plastic bowl / bowl guard no drain	P33KA00BGN
Metal bowl / w/o sight gauge no drain	P33KA00BMN
Metal bowl / sight gauge no drain	P33KA00BSN
Drip control assembly	P32KA00PG
Fill plug	P32KA00PL
L-bracket (fits to body)	P33KA00ML
T-bracket (fits to body connector)	P32KA00MB
T-bracket with body connector	P32KA00MT
Body connector	P32KA00CB
Oil (1 quart)	F442001
Oil (1 galllon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005



Inches (mm)



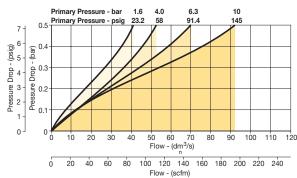
B55

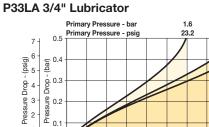
Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics

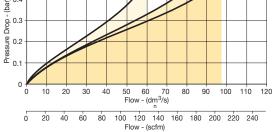
Flow Charts

1 0 -

P33LA 1/2" Lubricator







4.0 58 6.3 91.4



Introduction

Filters

B

Combinations

Popular Combinations: Inlet pressure 145 psig (10 bar), secondary pressure 91.3 psig (6.3 bar), 14.5 psig (1 bar) pressure drop.



P

Preparation Global Air

Introduction

Filters

Regulators

and Kits

Filter + Regulator + Lubricator Combinations, poly bowl 5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets		¢‡¢		
Port Size	Flow	Manual Drain	Pulse Drain	

1/4"	27 scfm (13 dm³/s, ANR)	P31CB92GEMN5LNW	P31CB92GEBN5LNW



•	ulator + Lubricator Combin element, 116 psig (8 bar) reg	ations, poly bowl julator + gauge and wall mour	nting brackets	¢ŧ
Port Size	Flow	Manual Drain	Pulse Drain	
1/4"	28 scfm (14 dm³/s, ANR)	P31CA92GEMN5LNW	P31CA92GEB	N5LNW



Ball Valve + Filter + Regulator + Lubricator Combinations, poly bowl
5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets



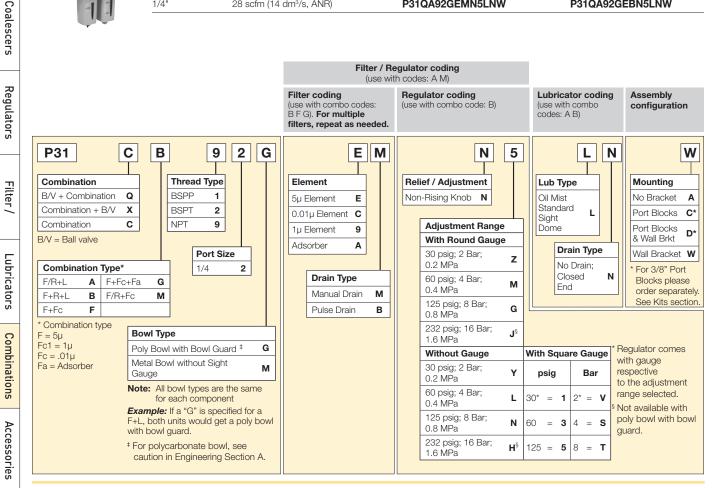
Port Size	Flow	Manual Drain	Pulse Drain
1/4"	27 scfm (13 dm³/s, ANR)	P31QB92GEMN5LNW	P31QB92GEBN5LNW



Ball Valve + Filter/Regulator + Lubricator Combinations, poly bowl
5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets



			..
Port Size	Flow	Manual Drain	Pulse Drain
1/4"	28 scfm (14 dm³/s, ANR)	P31QA92GEMN5LNW	P31QA92GEBN5LNW



For inventory, lead times, and kit lookup, visit www.pdnplu.com

B56

Parker Hannifin Corporation Pneumatic Division

Richland, Michigan www.parker.com/pneumatics Port Size

Port Size

1/4"

3/8"

1/2

1/2"

Flow

Flow

45 scfm (22 dm³/s, ANR)

70 scfm (33 dm3/s, ANR)

90 scfm (43 dm³/s ANR)

85 scfm (40 dm³/s, ANR)

Auto Drain

Auto Drain

P32CA92GEANGLNW

P32CA93GEANGLNW

P32CA94GEANGLNW

P32QB94GEANGLNW

Popular Combinations: Inlet pressure 145 psig (10 bar), secondary pressure 91.3 psig (6.3 bar), 14.5 psig (1 bar) pressure drop.

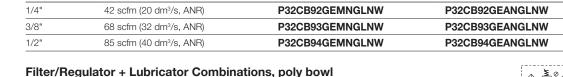
5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets

5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets

Filter + Regulator + Lubricator Combinations, poly bowl







Manual Drain

Manual Drain

P32CA92GEMNGLNW

P32CA93GEMNGLNW

P32CA94GEMNGLNW

P32QB94GEMNGLNW

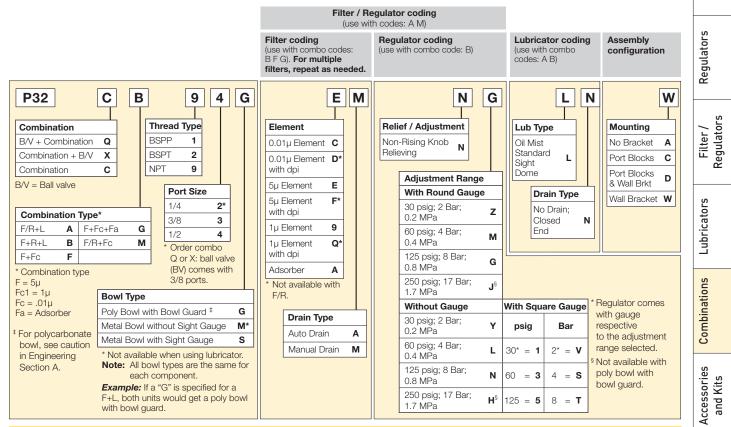




1/2	30 30im (40 0m /3, ANII)	FJZCAJTGENINGENW	F320A940	
Ball Valve + Filter + Regulator + Lubricator Combinations, poly bow 5 micron element, 116 psig (8 bar) regulator + gauge and wall mound			M D P	
Port Size	Flow	Manual Drain	Auto Drain	
1/4"	42 scfm (20 dm³/s, ANR)	P32QB92GEMNGLNW	P32QB92G	EANGLNW
3/8"	68 scfm (32 dm ³ /s, ANR)	P32QB93GEMNGLNW	P32QB93G	EANGLNW

Ball Valve + Filter/Regulator + Lubricator Combinations, poly bowl 5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets

		·
Flow	Manual Drain	Auto Drain
45 scfm (22 dm ³ /s, ANR)	P32QA92GEMNGLNW	P32QA92GEANGLNW
70 scfm (33 dm³/s, ANR)	P32QA93GEMNGLNW	P32QA93GEANGLNW
90 scfm (43 dm³/s, ANR)	P32QA94GEMNGLNW	P32QA94GEANGLNW
	45 scfm (22 dm³/s, ANR) 70 scfm (33 dm³/s, ANR)	45 scfm (22 dm³/s, ANR) P32QA92GEMNGLNW 70 scfm (33 dm³/s, ANR) P32QA93GEMNGLNW



C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

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Parker Hannifin Corporation Pneumatic Division

Richland, Michigan www.parker.com/pneumatics **Global Air** Preparation

B

Coalescers

Introduction

Popular Combinations: Inlet pressure 145 psig (10 bar), secondary pressure 91.3 psig (6.3 bar), 14.5 psig (1 bar) pressure drop.



Filter + Regulator + Lubricator Combinations, poly bowl
5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets



Port Size	Flow	Manual Drain	Auto Drain
1/2"	90 scfm (43 dm³/s, ANR)	P33CB94GEMNGLNW	P33CB94GEANGLNW
3/4"	110 scfm (52 dm ³ /s, ANR)	P33CB96GEMNGLNW	P33CB96GEANGLNW



Filter/Regulator + Lubricator Combinations, poly bowl 5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets



	anator i gaage and ran mean		
Flow	Manual Drain	Auto Drain	
110 scfm (52 dm³/s, ANR)	P33CA94GEMNGLNW	P33CA94GEANGLN	W
150 scfm (71 dm ³ /s, ANR)	P33CA96GEMNGLNW	P33CA96GEANGLN	W
	Flow 110 scfm (52 dm³/s, ANR)	Flow Manual Drain 110 scfm (52 dm³/s, ANR) P33CA94GEMNGLNW	110 scfm (52 dm³/s, ANR) P33CA94GEMNGLNW P33CA94GEANGLN



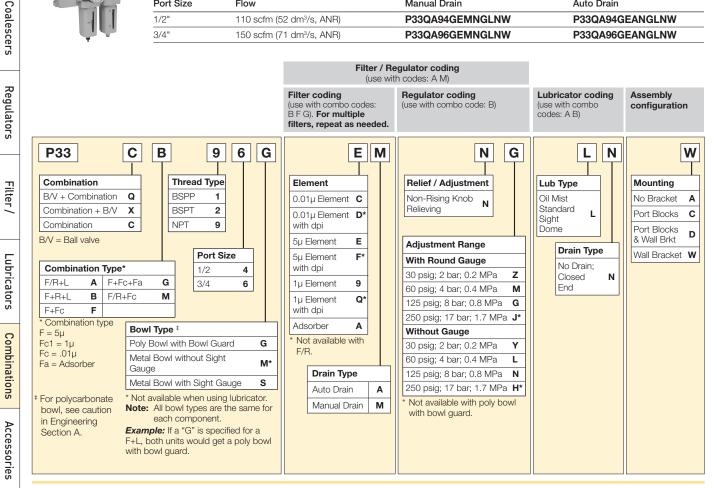
Ball Valve + Filter + Regulator + Lubricator Combinations, poly bowl 5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets

Port Size	Flow	Manual Drain	Auto Drain
1/2"	90 scfm (43 dm³/s, ANR)	P33QB94GEMNGLNW	P33QB94GEANGLNW
3/4"	110 scfm (52 dm³/s, ANR)	P33QB96GEMNGLNW	P33QB96GEANGLNW

Ball Valve + Filter/Regulator + Lubricator Combinations, poly bowl 5 micron element, 116 psig (8 bar) regulator + gauge and wall mounting brackets



Port Size	Flow	Manual Drain	Auto Drain
1/2"	110 scfm (52 dm³/s, ANR)	P33QA94GEMNGLNW	P33QA94GEANGLNW
3/4"	150 scfm (71 dm³/s, ANR)	P33QA96GEMNGLNW	P33QA96GEANGLNW



C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

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

Regulators

and Kits

Introduction

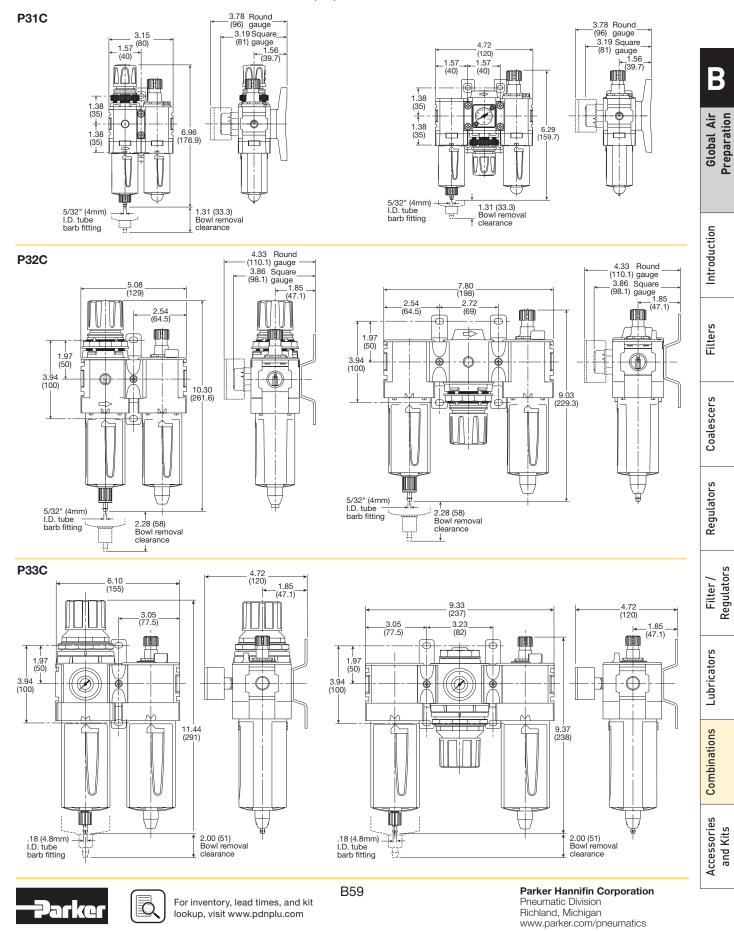
B

Preparation **Global Air**

Popular Combination Dimensions

inches (mm)





P31D & P32D Dump Valves

- Modular design with 1/4" or 1/2" integral ports (NPT, BSPP & BSPT)
- The 3-way, 2-position function automatically dumps downstream pressure on the loss of pilot signal
- Solenoid or air pilot options
- High flow & exhaust capability
- Silencer included

B

Global Air Preparation

Introduction

Filters

Coalescers



Remotely operated dump valves automatically shut off upstream pressure and exhaust the downstream pressure when the pilot pressure is released.

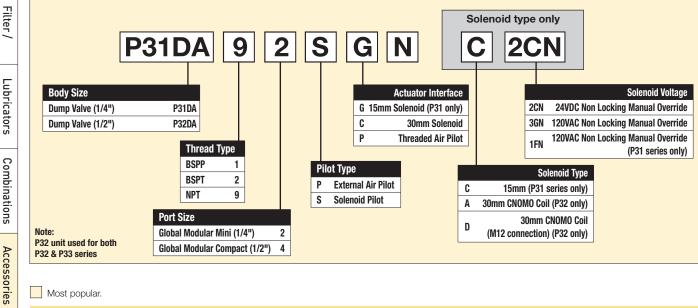
To maintain these units in the open position a pilot supply to the air pilot operated version or an electrical signal to the solenoid operated version must be maintained.

The valve will automatically dump when the holding signal is removed.

Description	Weight Ibs (kg)	Part Number
120VAC Solenoid & cable plug	0.8 (0.37)	P31DA92SGNC1FN
24VDC Solenoid & cable plug [‡]	0.9 (0.41)	P31DA92SGNC2CN
External air pilot operated	0.8 (0.37)	P31DA92PPN
120VAC 30mm coil & cable plug incl. ‡	1.5 (0.69)	P32DA94SCNA3GN
24VDC 30mm coil & cable plug incl. ‡	2.0 (0.91)	P32DA94SCNA2CN
External air pilot operated [‡]	1.9 (0.87)	P32DA94PPN
	Description 120VAC Solenoid & cable plug 24VDC Solenoid & cable plug [‡] External air pilot operated 120VAC 30mm coil & cable plug incl. [‡] 24VDC 30mm coil & cable plug incl. [‡] External air pilot operated [‡]	Description Ibs (kg) 120VAC Solenoid & cable plug 0.8 (0.37) 24VDC Solenoid & cable plug [‡] 0.9 (0.41) External air pilot operated 0.8 (0.37) 120VAC 30mm coil & cable plug incl. [‡] 1.5 (0.69) 24VDC 30mm coil & cable plug incl. [‡] 2.0 (0.91)

‡ Includes exhaust silencer

Ordering Information:



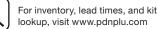


Operating information

Flow capacity*:	P31D P32D	36 scfm (17 dm³/s, ANR) 108 scfm (51 dm³/s, ANR)		
Temperature range (max) [†] : Solenoid operated Air pilot operated		14°F to 122°F (-10°C to 50°C) -4°F to 176°F (-20°C to 80°C)		
Pressure (max): Solenoid operated Air pilot operated		150 psig (10 bar) 250 psig (17 bar)		
Operating pressure (min):		44 psig (3 bar)		
Fluid:		Compressed air		
Ports:	Air pilot Exhaust Gauge	1/8 P31D - 1/4; P32D - 1/2 P31D - 1/8; P32D - 1/4		
 Inlet pressure 91.3 psig (6.3 bar), inlet pressure and 14.5 psig (1 bar) pressure drop. 				
+ Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C). Snap pressure: Full flow when				

downstream pressure reaches 50% of the inlet pressure.

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



C

B60

_ubricators

and Kits

Regulators

Catalog 0700P-8 **Dump Valves**

Material Specifications

Body	Aluminum
Body cover	Polyester
Seals	Nitrile NBR

Mounting Brackets

		Part Number
	Description	P31D
1 An	L-bracket mounting kit	P3HKA00ML
P31		
	Foot bracket mounting kit	P3HKA00MC
P31		

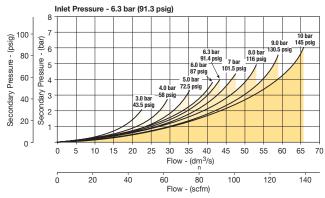
Note:

For solenoid operators and cable plugs (connectors) see pages B83 and B84.

Air Preparation Products **Global Air Preparation**

Flow Charts

P31DA 1/4" Remote Dump Valve



B

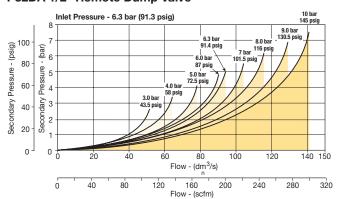
Global Air Preparation

Introduction

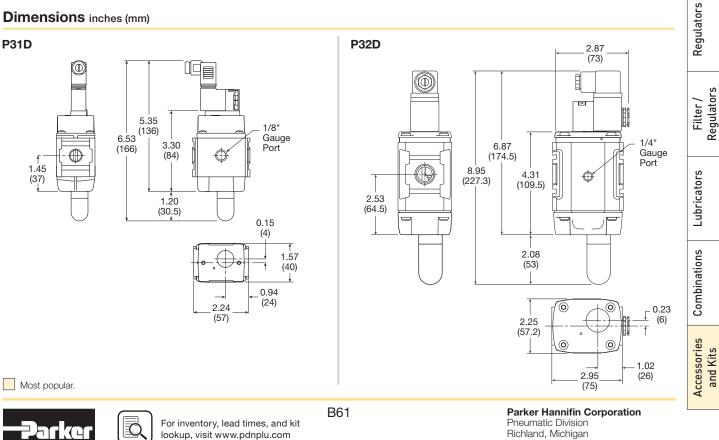
Filters

Coalescers

P32DA 1/2" Remote Dump Valve



Dimensions inches (mm)



Richland, Michigan www.parker.com/pneumatics

P31S & P32S Soft Start Valves

- Modular design with 1/4" or 1/2" integral ports (NPT, BSPP & BSPT)
- The 2-way, 2-position function provides for the safe introduction of pressure
- Adjustable slow start
- Solenoid or air pilot options
- High flow

P

Global Air Preparation

Introduction

Filters



Parker Global Series Soft Start Valves, provide for the safe introduction of pressure to machines or systems. Soft Start Valves, allow the pressure to gradually build to the set point before fully opening to deliver full flow at line pressure.

The controlled introduction of pressure can be an important safety factor and prevent damage to tooling when air pressure is introduced at machine or system start up.

Note: Soft Start Valves must be installed downstream of a 3/2 valve with exhaust capability

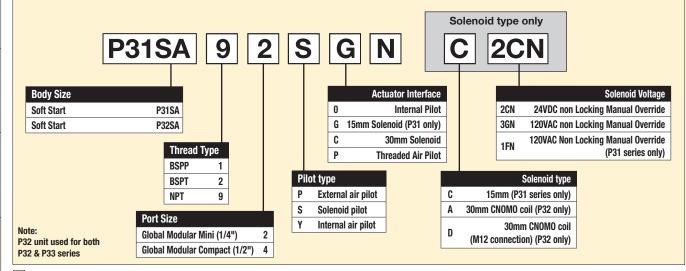
Port Size	Description	Weight Ibs (kg)	Part Number
1/4"	120VAC Solenoid & Cable Plug	0.8 (0.37)	P31SA92SGNC1FN
1/4"	24VDC Solenoid & Cable Plug	0.9 (0.41)	P31SA92SGNC2CN
1/4"	Internal Air Pilot Operated	0.8 (0.37)	P31SA92Y0N
1/4"	External Air Pilot (1/8" threaded)	0.8 (0.37)	P31SA92PPN
1/2"	120VAC 30mm Coil & Cable Plug Incl	. 1.5 (0.87)	P32SA94SCNA3GN
1/2"	24VDC 30mm Coil & Cable Plug	2.0 (0.90)	P32SA94SCNA2CN
1/2"	Internal Air Pilot Operated	2.0 (0.90)	P32SA94Y0N
1/2"	External Air Pilot (1/8 threaded)	1.5 (0.87)	P32SA94PPN



Operating information P31S Flow capacity*: 36 scfm (17 dm³/s, ANR) P32S 101 scfm (48 dm³/s, ANR) Temperature range (max)[†]: 14°F to 122°F (-10°C to 50°C) Solenoid operated Air pilot operated -4°F to 176°F (-20°C to 80°C) Pressure (max): Solenoid operated 150 psig (10 bar) Air pilot operated 250 psig (7 bar) Operating pressure (min): 44 psig (3 bar) Fluid: Compressed air 1/8 Ports: Air pilot P31S - 1/8; P32S - 1/4 Gauge * Inlet pressure 91.3 psig (6.3 bar), inlet pressure and 14.5 psig (1 bar) pressure drop. † Air supply must be dry enough to avoid ice formation at

temperatures below $35.6^{\circ}F$ (2°C). Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure.

Ordering Information:



Most popular.



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

Coalescers Regulators Filter/ Regulators

Lubricators

Combinations

Accessories

and Kits

(Revised 09-09-19)

Material Specifications

Body	Aluminum
Body cover	Polyester
Seals	Nitrile NBR

Service Kits

P31S	L-bracket mounting kit	P3HKA00ML
	Foot bracket mounting kit	P3HKA00MC
P32S	L-bracket mounting kit	P3KKA00ML
	Foot bracket mounting kit	P3KKA00MC

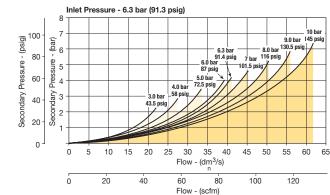
Note:

For solenoid operators and cable plugs (connectors) see pages B83 and B84.

Air Preparation Products Global Air Preparation

Flow Charts





B

Global Air Preparation

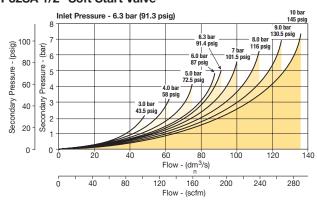
Introduction

Filters

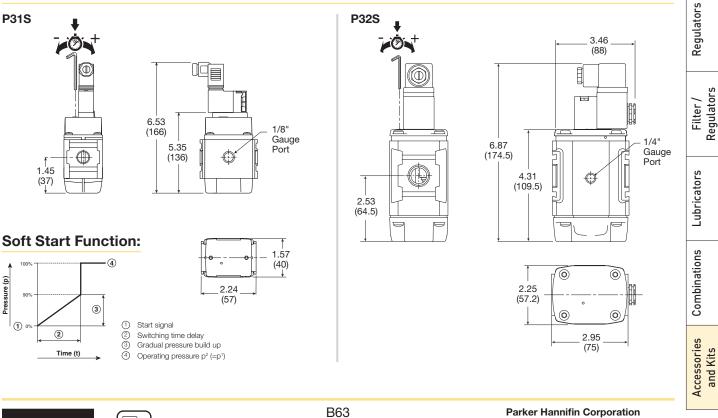
Coalescers

and Kits

P32SA 1/2" Soft Start Valve



Dimensions inches (mm)



C 11 Я

For inventory, lead times, and kit lookup, visit www.pdnplu.com

P31T & P32T Combined Soft Start / Dump Valves

- Modular design with 1/4" or 1/2" integral ports (NPT, BSPP & BSPT)
- Provides for the safe introduction of pressure
- The 3-way, 2-position function automatically dumps
 downstream pressure on the loss of pilot signal
- Adjustable slow start

P

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

_ubricators

Combinations

Accessories

and Kits

- Solenoid or air pilot options
- High flow & exhaust capability
- Silencer included



Parker Global Series Combined Soft Start / Dump Valves, provide for the safe introduction of pressure to machines or systems. Soft Start / Dump Valves when set, allow the pressure to gradually build to the set point before fully opening to deliver full flow at line pressure.

The controlled introduction of pressure can be an important safety factor and prevent damage to tooling when air pressure is introduced at machine or system start up.

To maintain these units in the open position a pilot supply to the air pilot operated version or an electrical signal to the solenoid operated version must be maintained. The valve will automatically dump when the holding signal is removed.

Port		Weight	
Size	Description	lbs (kg)	Part Number
1/4"	120VAC Solenoid & cable plug	0.8 (0.37)	P31TA92SGNC1FN
1/4"	24VDC Solenoid & cable plug	0.9 (0.41)	P31TA92SGNC2CN
1/4"	External air pilot operated	0.8 (0.37)	P31TA92PPN
1/2"	120VAC 30mm coil & cable plug incl.	1.9 (0.87)	P32TA94SCNA3GN
1/2"	24VDC 30mm coil & cable plug incl.	2.0 (0.91)	P32TA94SCNA2CN
1/2"	External air pilot operated	1.9 (0.87)	P32TA94PPN



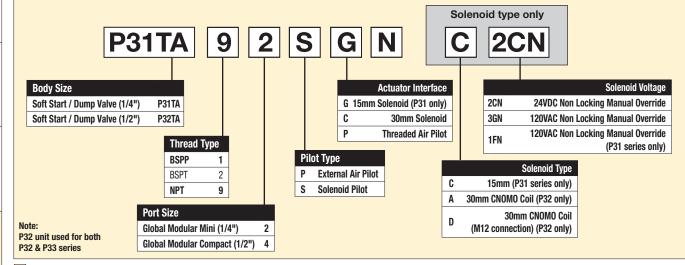
Operating information

Flow capacity*:	P31T P32T		dm³/s, ANR) 1 dm³/s, ANR)
Temperature rang Solenoid opera Air pilot operat	ated		°F (-10°C to 50°C) 'F (-20°C to 80°C)
Pressure (max): Solenoid opera Air pilot operat		150 psig (10 250 psig (7 l	/
Operating pressu	re (min):	44 psig (3 ba	ar)
Fluid:		Compressed	air
Ports:	Air pilot Exhaust Gauge	1/8 P31T - 1/4; P31T - 1/8;	
* Inlet pressure 91. 14.5 psig (1 bar)	1 0 1	<i>//</i>	and

14.5 psig (1 bar) pressure drop.

† Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C). Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure.

Ordering Information:



Most popular.



B64

(Revised 09-09-19)

Material Specifications

Body	Aluminum
Body cover	Polyester
Seals	Nitrile NBR

Service Kits

P31T	L-bracket mounting kit	P3HKA00ML
	Foot bracket mounting kit	P3HKA00MC
P32T	L-bracket mounting kit	P3KKA00ML
	Foot bracket mounting kit	P3KKA00MC

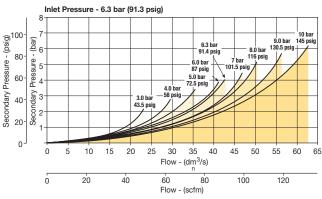
Note:

For solenoid operators and cable plugs (connectors) see pages B83 and B84.

Air Preparation Products Global Air Preparation

Flow Charts

P31TA 1/4" Soft Start & Dump Valve



B

Global Air Preparation

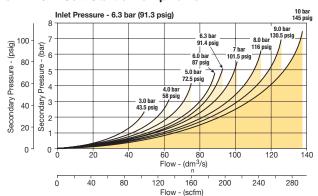
Introduction

Filters

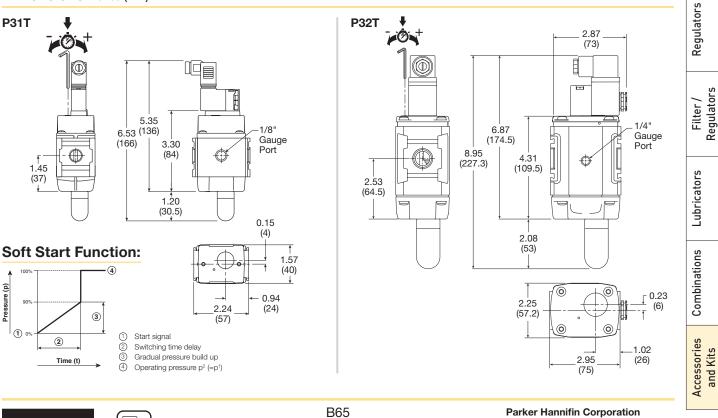
Coalescers

and Kits

P32TA 1/2" Soft Start & Dump Valve



Dimensions inches (mm)





For inventory, lead times, and kit lookup, visit www.pdnplu.com

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

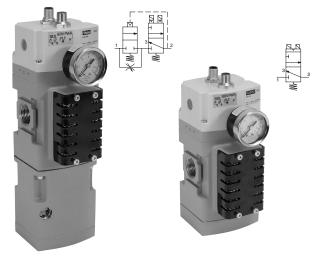
P33D & P33T Safety Exhaust Valves

- Easy electrical interface with M12 connectors to safety circuit
- External monitoring provides a cost and space saving advantage
- Solid state pressure sensors provide accurate, fast fault detection
- Quick visual LED indicators on the front of the valve
- Superior seated seal design for longer life
- Safety exhaust outlet is no-maintenance and non-clog by design
- Suitable for stand alone use or modular mounting to P32 or P33 FRL assembly
- High B10 life value
- Fast exhaust times allow for smaller machine footprint

Operating information

Ordering Information:

Operating pressure:	30 to 150 PSIG (2 to 10 bar)
Minimum operating pressure:	30 PSIG (2 bar)
Ambient temperature:	40° to 120°F (4° to 50°C)
Recommended filtration:	40µ
Operating medium:	Compressed air
Ingress protection class:	IP65
B10 (mio):	10 million switching cycles
B10 d (mio):	20 million switching cycles
Allowable discordance:	150ms
Flow media:	Compresses air to ISO 8573-1 Class 7:4:4
Weight lbs (kg):	6.5 (2.9) with soft start 4.2 (1.9) without soft start
The soft start opens to full flow at a	approximately 60% of input pressure.



(optional soft start)



6 Β Ν Ρ3 В Δ E Globa Design Sensor Gauge² Port Size Monitoring Standard 3 Current В No Gauge Ν 3/4" 1 6 External Е Dial Gauge ³ G Thread Type Series Type (standard) Standard P3 Safety Redundant BSPP **Output for Solenoid**, Output for Sensors, Digital Gauge³ D 1 D (no soft start) NPT 9 M12 Connector Pin M12 Connector Pin MPS-P34 Safety Redundant Pressure М т 2 & 4, Common 3 Α 1 & 2, 1 & 4, Common 3 Α (c/w soft start) Sensor 3&4 C 1 & 2, 5 & 4, Common 3 В 2&4 D 5 & 2, 1 & 4, Common 3 C Notes: 1. For 1/2" connections use 1/2" port blocks on standard 3/4" housing. 2. Safety valve supplied with 1/8" gauge port in either BSPP or NPT threads as specified for ports. Gauges shipped loose. Note: Mounting hardware and port blocks are sold separately. 3. Dial or digital gauge not available on BSPP version.

Most popular.



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

Global Air Introduction Preparation

B

Coalescers

Filters

Regulators

Filter / Regulators

_ubricators

Combinations

Accessories

and Kits

(Revised 11-15-18)

General Technical Data

Valve type	Externally monitored, redundant, dual poppet
Soft start	Optional
Valve function	3/2 way, normally closed
Housing material	Cast aluminum
Seals	NBR
Fasteners	Stainless steel / brass
Silencer	Steel, non clog safety design

Electrical Specifications

Operating voltage 24V DC	
Electrical connection	Two M12 connectors
Switching time 1-2 (ms)	23.3
Switching time 2-3 (ms)	42.7
Duty cycle (%)	100%
Operating voltage (DC)	21.6 to 26.4
Nominal power per solenoid coil at 24V DC (W) +/- 10% per pressure sensor at 24V DC	1.2 W 1.2 W

In accordance with EN ISO 13849-1 this safety valve is suitable for use up to Category 4, Ple, sil 3. Certified to cCSAus and bears the CE mark.

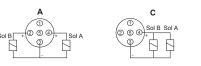
A product Integration Guide is available to help connect your logic controller to the Parker Safety Exhaust Valve under the Product Support tab at www.parker.com/pdn/safetyvalve

Air Preparation Products Global Air Preparation

Mounting Hardware

Body Connector	P32KA00CB	
T-Bracket w / Body Connector	P32KA00MT	
T-Bracket (fits to body connect	P32KA00MB	
Port Block Kits (includes two)	1/2" NPT 1/2" BSPT 1/2" BSPP	P32KA94CP P32KA24CP P32KA14CP
	3/4" NPT 3/4" BSPT 3/4" BSPP	P32KA96CP P32KA26CP P32KA16CP

Solenoid M12 Pinouts





B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

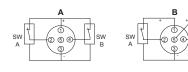
Filter / Regulators

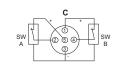
Lubricators

Combinations

Accessories and Kits

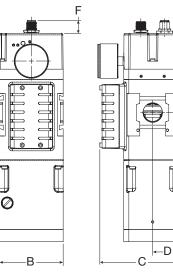
Pressure Sensor M12 Pinouts





Externally Monitored (with Soft Start)

A



Externally Monitored (No Soft Start)

В

Е -D С

F

Dimensions inches (mm)

	Ports	Standard nominal flow rate							
		$1 \rightarrow 2 \text{ L/min (SCFM)}^*$	$2 \rightarrow 3$ L/min (SCFM)*	А	В	С	D	Е	F
Externally Monitored with soft start	3/4"	4,100 (145)	7,500 (265)	10.31 (261.9)	3.15 (80)	4.30 (109.3)	1.44 (36.5)	6.39 (162.3)	0.64 (16.3)
Externally Monitored no soft start	3/4"	4,300 (152)	7,500 (265)	7.03 (178.7)	3.15 (80)	4.30 (109.3)	1.44 (36.5)	3.11 (79.0)	0.64 (16.3)

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* Standard nominal flow rate is based on 6 bar input pressure with $\Delta P = 1$ bar

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Parker Hannifin Corporation Pneumatic Division

Richland, Michigan www.parker.com/pneumatics

Safety Exhaust Valve Function

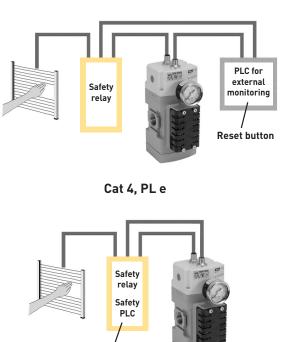
When applications demand a safe environment you can count on safety valves from Parker Hannifin. The P33 family of safety exhaust valves are 3/2 normally closed valves designed to rapidly exhaust compressed air in the event of a fault condition and to provided monitored coverage ensuring safe function. The P33 is available in two distinct styles, internally* or externally monitored. The valve is suitable for use up to Category 4, performance level e. Monitoring is achieved externally via a two channel system connected to a safety interface device. Both valves are available with an adjustable soft start and high flow exhaust to shut your equipment down faster when needed. LED's provide clear status of main solenoid operation, sensor power and fault condition for quick visual reference.

Externally Monitored Valve, Faults and Resets

The externally monitored valve has the monitoring done via a PLC or relay which offers a size and cost advantage over internally monitored valves. The integration of a safety interface into the PLC or relay will help determined the achievable category and performance level of the control system. Customers are required to provide the logic function via the safety device. The valve will lock-out to the "safe state" if asynchronous movement of the valve elements occur which will be detected by solid state pressure sensors. To achieve the proper safety rating, the safety PLC or relay must monitor the solid state pressure sensors to ensure they are not in different states for more than 150ms. If the sensors are in different states for longer than 150ms then the programming logic must shut off power to the solenoids and consider it a fault condition. If during operation the externally monitored P33 enters a fault condition the valve will shut off. A separate reset signal must be incorporated into the logic sequence to avoid automatic restart of the valve. The safety exhaust valves are not for use with clutch or brake applications and are designed for use in conjunction with a safety relay or safety PLC for safe monitoring and fault detection.

Achieving Desired Performance Level **

The category and performance level (PLr) needed for your machine is determined by a risk assessment of the machinery design and application based on EN ISO 13849-1. The Parker P33 safety valve is designed for those applications requiring a PL of d or e. Please note these levels require other aspects of the system to meet these requirements. As a guide: you can achieve a Cat 4 PL e system by integrating monitoring via a programmable safety rated device. Because the P33 is a mechanical fail-safe device, the monitoring could also be done via a standard PLC and still attain as high as a PL d rating.



Cat 3, PL d

* For information on internally monitored safety valves reference Bulletin 0700-B13.

Reset button

** An integration guide is available to provide further information on connecting the safety valve product to achieve the desired performance level. Please consult Parker and the standard EN ISO 13849-1 for more information.



Combinations

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Conditions at Start

The Safety exhaust valve starts with inlet 1 closed to outlet 2 by both valve elements A and B. Outlet 2 is open to exhaust 3. Pressure signals at both sensors SA and SB are exhausted and contacts 1 and 2 of sensors SA and SB are connected. The normally closed sensors both provide voltage feedback signals to the external monitoring system.

Normal Operation

During normal operation the two solenoids are simultaneously energized which actuates both pilots and causes valve elements A and B to shift. Inlet 1 is then connected to outlet 2 via crossflow passages C and D. Exhaust 3 is closed. Sensing pressure signals go to each pressure sensor and become equal to inlet pressure. Both sensors contacts open and no voltage signals are provided to the external monitoring system. This indicates that both sides of the valve actuated as expected.

Detecting a Malfunction

A malfunction in the system or the valve itself could cause one valve element to be open and the other closed. Air then flows past the inlet poppet on valve element A, into crossflow passage D, but is substantially blocked by the spool portion of element B. The large size of the open exhaust passage past element B keeps the pressure at the outlet port below 2% of inlet pressure. Full sensing air pressure from side A goes to sensor SA, and a reduced pressure goes to sensor SB. This full pressure signal causes SA to open. Sensor SB, with a reduced pressure signal, does not open. An external monitoring system can detect the malfunction by monitoring the outputs of the SA and SB sensors. The external monitor system must then react accordingly by shutting down the power to the valve solenoids and any other components deemed necessary to stop the machine.

Accessories and Kits





Machinery Directive - Overview

The Machinery Directives' goal is to protect people and the environment from accidents caused from all types of machinery. Based on the standard EN 13849 [safety of machines; safety-related parts of control systems] these standards build the procedure to assess safety-related control systems.

Required Performance Level (PLr) based on a risk assessment are now commonly used to determine the safety level required for the controls system, for the application of machinery.

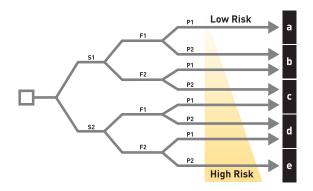
Performance Level (PL) based on the original B, 1,2,3,4 safety categories, diagnostic capabilities, Mean time to dangerous failure (MTTFd), and common cause failure (CCF), define safety levels of a given safety function. This ensures that safety is not just focused on component reliability, but instead introduces common sense safety principles such as redundancy, diversity, and fail-safe behavior of safety related control parts.

The new EN 13849 standards of the Machinery Directive dictates the machine is safe when the Performance Level of the safety control circuit is equal to or greater than the Required Performance Level of the application. When determining the required performance level, the greater the risk, the higher the requirements of the control system.



Determining PLr According to EN 13849-1

The level of each hazardous situation is classified in five Performance levels from a to e. With PL a the control functions contribution to risk reduction is low, while at PL e it is high. The risk graph above can be used as a guideline to determine the required performance level PLr for safety function.



Risk Parameters

(S) Severity of injury

- S1 Slight (normally reversible injury)
- S2 Serious (normally irreversible injury, or death)

(F) Frequency and / or duration of exposure to hazard

- F1 Seldom to less often and / or brief
- F2 Frequent to continuous and / or long

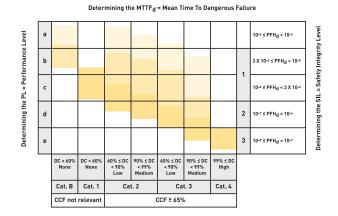
(P) Possibility of avoiding the hazard

P1 Possibility of avoiding the hazard

C

P2 Scarcely ever possible

Determining PL According to EN 13849-1



Categories Defined by EN 13849-1

Category	Summary
Category B	When a fault occurs it can lead to the loss of the safety function.
Category 1	Same that Category B, but loss of the safety function is less likely thanks to a good MTTFd of each channel.
Category 2	System behavior allow that the occurrence of a fault can lead to the loss of the safety function between the checks; the loss of the safety function is detected by the check.
Category 3	A single fault in any of safety related parts does not lead to the loss of the safety function. Whenever reasonably possible the single fault shall be detected at or before the next demand upon the safety function. (Means redundancy)
Category 4	Same as Category 3, but if detection of single fault is not possible on or before the next demand upon the safety, an accumulation of these undetected faults shall not lead to the loss of the safety function. (Means redundancy & check)

Combinations

Accessories and Kits

Lubricators



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Regulators

Filter / Regulators

P33T Redundant Safety Exhaust Valve

- Proven control reliable technology with integrated soft start
- Soft start application of air to the system when energized; can be adjusted for slower or faster buildup of system pressure
- Rapid exhaust of downstream air when de-energized to remove stored energy and allow safe access
- Memory, monitoring, and air flow control functions are integrated into two identical valve elements. Valves lock-out if asynchronous movement of valve elements occurs during actuation or de-actuation, resulting in a residual outlet pressure of less than 1% of supply.
- Reset can only be accomplished by the integrated electrical (solenoid) reset. Cannot be reset by removing and re-applying supply pressure.
- Basic 3/2 normally closed valve function: Dirt tolerant, wear compensating poppet design for quick response and high flow capacity.
- LED indicators of main solenoid operation, reset solenoid operation, and status indicator condition.
- Optional transducer for monitoring of downstream pressure in the system.
- Dual exhaust silencers included.

P

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Accessories

and Kits

- Not for use with clutch / brake applications.
- For use in conjunction with a safety relay or safety PLC.

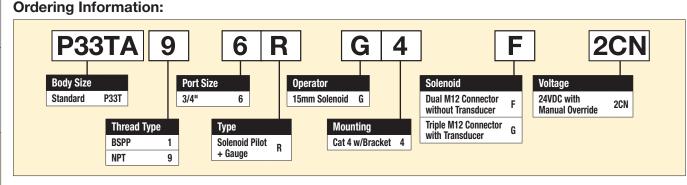


Port size			Cv		
Inlet	Outlet	Transducer	1 to 2	2 to 3	Part Number*
3/4	3/4	w/o transducer	3.7	8.5	P33TA96RG4F2CN
3/4	3/4	w/ transducer	3.7	8.5	P33TA96RG4G2CN



Operating information

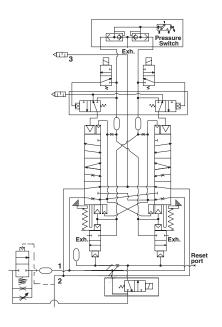
<u> </u>	
Pilot Solenoids: Enclosure rating: Connector socket:	According to VDE 0580 According to DIN 400 50 IP65 According to DIN 43650 Form A Three solenoids, rated for continuous duty
Standard voltages:	24VDC
Power consumption (each solenoid), for primary & reset solenoids	1.2 Watts on DC
Enclosure rating:	IP65, IEC 60529
Electrical connection:	M12, 5-pin
Ambient temperature:	15°F to 122°F (-10°C to 50°C)
Media temperature:	40°F to 175°F (4°C to 80°C)
Flow media:	Compressed Air, Filtered to Minimum 40 Micron
Inlet pressure:	30 to 150 psig (2 to 10 bar)
Monitoring:	Dynamically, cyclically, internally during each actuating and de-actuating movement. Monitoring function has memory and requires an overt act to reset unit after lockout.
Mounting orientation:	Vertically with pilot solenoids on top
Port threads:	3/4 NPT, 3/4 BSPP
Control reliable:	Category 4 (Cat 4); performance Level e (PLe) in accordance with Machine directive - EN ISO 13849-1 (Certification pending)
Weight:	16.1 lb (7.3 kg) w/o transducer 16.3 lb (7.4 kg) w/ transducer



Most popular.

Parker 🖸

Catalog 0700P-8 **Redundant Safety Exhaust Valves**



Air Preparation Products Global Air Preparation

Repair and Service Kits

Black grill	1834C05-001
Body connector	P32KA00CB
M12, 5-pin female to flying lead cable, TPE; 6.6 ft (2 m)	RKC 4.5T-2/S1587
M12, 5-pin male to flying lead cable, TPE; 6.6 ft (2 m)	RSC 4.5T-2/S1587
1/2 NPT, port block kit	P32KA94CP
3/4 NPT, port block kit	P32KA96CP
1/2 BSPP, port block kit	P32KA14CP
3/4 BSPP, port block kit	P32KA16CP
1/2 BSPT, port block kit	P32KA24CP
3/4 BSPT, port block kit	P32KA26CP
Pressure switch	1227A30-001
Pressure transducer (optional)	1232H30-001
T-bracket w/ body connector	P32KA00MT
T-bracket (fits to body connector or port block)	P32KA00MB
Silencer(s) 3/4"	5500A5013
Solenoid (main & reset)	1527B7916-001
Square flush mounting gauge kit, 0-160 psig	K4511SCR160

B

Global Air Preparation

Introduction

Filters

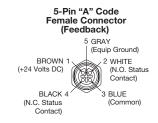


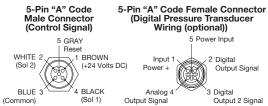




Lubricators

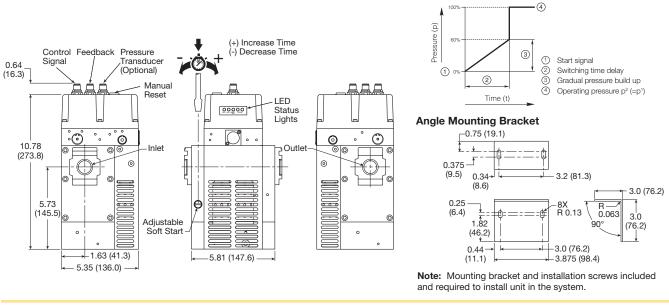
Valve Wiring





Output Signal

Dimensions inches (mm)



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For inventory, lead times, and kit lookup, visit www.pdnplu.com

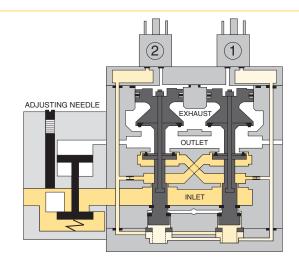
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Valve de-actuated (ready-to-run):

The flow of inlet air pressure to the inlet chamber of the main valve internals is restricted by a fixed orifice and an adjustable flow control as well as an air piloted 2-way normally closed poppet valve. The flow of inlet air pressure into the crossover passages is restricted by the size of the passage between the stem and the valve body opening. Flow is sufficient to quickly pressurize pilot supply / timing chambers 1 and 2. The inlet poppets prevent air flow from crossover passages into the outlet chamber. Air pressure acting on the inlet poppets and return pistons securely hold the valve elements in the closed position. (Reset adapter omitted for clarity.)

The green "Status" LED will be illuminated indicating the valve is operational.





Valve actuated:

Energizing the pilot valves simultaneously applies pressure to both pistons, forcing the internal parts to move to their actuated (open) position, where inlet air flow to crossover passages is fully open, inlet poppets are fully open and exhaust poppets are fully closed. The outlet is then pressurized at a rate allowed by the fixed orifice and the adjusted flow control. Once the air pressure in the outlet chamber reaches approximately 60% of inlet pressure, the air piloted 2-way normally closed poppet valve opens fully and the pressure in the inlet, crossovers, outlet, and timing chambers are quickly equalized. The adjustable flow control will control the time it takes for the outlet air pressure to reach approximately 60% of inlet pressure.

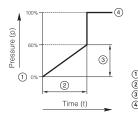
De-energizing the pilots quickly causes the valve elements to return to the ready-to-run position.

Solenoid 1, Solenoid 2 and the green "Status" LED's will be illuminated indicating the valve is operating properly.



ADJUSTING NEEDLE

Soft start function:



Start signal
 Switching time delay
 Gradual pressure build up
 Operating pressure p² (=p¹)

Parker



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Combinations

Accessories

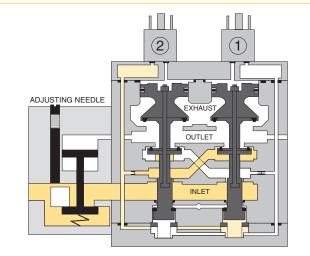
and Kits

Valve fault and lock-out:

Whenever the valve elements operate in a sufficiently asynchronous manner, either on actuation or de-actuation, the valve will move to a locked-out position. In the locked-out position, one crossover and its related timing chamber will be exhausted, and the other crossover and its related timing chamber will be fully pressurized. The valve element (side 2) that is partially actuated has pilot air available to fully actuate it, but no air pressure on the return piston to fully de-actuate the valve element.

Air pressure in the crossover acts on the differential of side 2 stem diameters creating a latching force. Side 1 is in a fully closed position, and has no pilot air available to actuate, but has full pressure on the inlet poppet and return piston to hold the element in the fully closed position. Inlet air flow on side 1 into its crossover is restricted, and flows through the open inlet poppet on side 2, through the outlet into the exhaust port, and from the exhaust port to atmosphere. Residual pressure in the outlet is less than 1% of inlet pressure. The return springs are limited in travel, and can only return the valve elements to the intermediate (locked-out) position. Sufficient air pressure acting on the return pistons is needed to return the valve elements to a fully closed position.

The red "Status" LED will be illuminated indicating the valve in fault and lock-out must be reset





Valve reset (electrical or manual):

The reset procedure is as follows:

- Remove the electrical signals to the main coils
- Ensure there is air supplied to the valve
- Energize the reset solenoid for a minimum of 200 ms
- Allow a 200 ms delay after de-energizing the reset solenoid and re-energizing the main solenoids

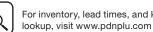
The valve will remain in the locked-out position, even if the inlet air supply is removed and re-applied.

A remote reset signal must be applied to reset the valve. A momentary, remote electrical signal must be applied to the reset solenoid to apply pressure to the reset pistons in the valve. Actuation of the reset piston physically pushes the main valve elements to their closed position. Inlet air fully pressurizes the crossovers and holds the inlet poppets on seat. Actuation of the reset piston opens the reset poppet, thereby, immediately exhausting pilot supply air, thus, preventing valve operation during reset (Reset adapter added to illustration.). De-actuation of reset pistons causes the reset poppets to close and pilot supply to fully pressurize. Reset air pressure is applied by a 3/2 normally closed solenoid, or a manual push button mounted on the reset adapter in the top valve cover.

The green "Status" LED will be illuminated once the valve is reset.

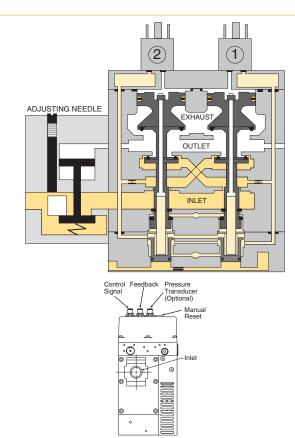






For inventory, lead times, and kit

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Introduction

Regulators Filter /

Lubricators

Combinations

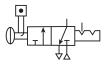
Accessories and Kits

Ball Valve / Lockout Valve

The Ball / Lockout Valve shuts off downstream line pressure in the closed position with a 90° turn of the handle. In the closed position, inlet air pressure is blocked and downstream / system air is exhausted through a threaded port. To prevent unauthorized adjustment, the padlock slide may be assembled on either side. It is recommended that this slide is installed after final system assembly.

The Safety Lockout valves conform to OSHA #29 CFR part 1910 — control of hazardous energy source (lockout / tagout).

Note: This padlock slide is a permanent assembly and may not be removed later, any unauthorized tampering will void any warranty claims. The valve can only be locked in the closed position.



Ordering Information

Model Type	Port Size	Exhaust Port	Thread Type	Flow scfm (dm ³ /s, ANR)	Modular Ball Valve Flow from Left to Right
P31	1/4"	1/4"	NPT	42.4 (20)	P31VB92LBNN
P32	3/8"	1/4"	NPT	190.7 (90)	P32VB93LBNN
	1/2"	1/4"	NPT	258.5 (122)	P32VB94LBNN
P33	1/2"	1/2"	NPT	561.5 (265)	P33VB94LBNN
	3/4"	1/2"	NPT	678 (320)	P33VB96LBNN
* Lockout tab and muffler supplied with unit.					
For thre	ad type		PP <u>1</u>		

BSPT 2 NPT 9

Dimensions inches (mm)

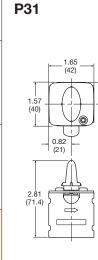
0.78 (20)

0.84

(21₁.4)

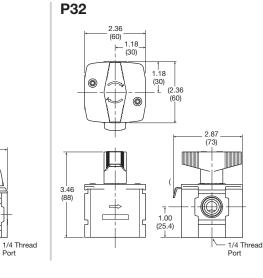
.96

Port



Most popular.





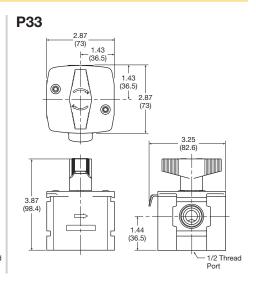


Operating information

Operating ten	nperature:	-40°C to 80°C (-40°F to 176°F)	
Pressure supply (max):		250 psig (17 bar)	
Port size: BSPP / BSPT / NPT		1/4, 3/8, 1/2, 3/4	
Weight:	P31 P32 P33	0.33 lbs (0.15 kg) 0.79 lbs (0.36 kg) 1.21 lbs (0.55 kg)	

Material Specifications

Aluminum
PTFE
Stainless Steel
Zinc Plated Steel
Zinc Plated Steel



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For inventory, lead times, and kit lookup, visit www.pdnplu.com

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B

Global Air Preparation

Introduction

Filters

Filter / Regulators

Lubricators

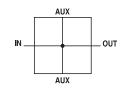
Combinations

Accessories

and Kits

Manifold Blocks

- Available in 1/4" or 3/4" threaded inlet / outlet ports
- Two additional top and bottom auxiliary ports standard
- · Can be mounted anywhere in the FRL system





Ordering Information

Model Type	In / Out Port Size	Port Size	Auxiliary Port Size Bottom	Thread Type	Part Number
P31	1/4"	1/4"	1/4"	NPT	P31MA92022N
P32	1/2"	1/4"	1/2"	NPT	P32MA94024N
P33	3/4"	1/4"	1/2"	NPT	P33MA96024N
For threa	ad type:	BSPP 1			

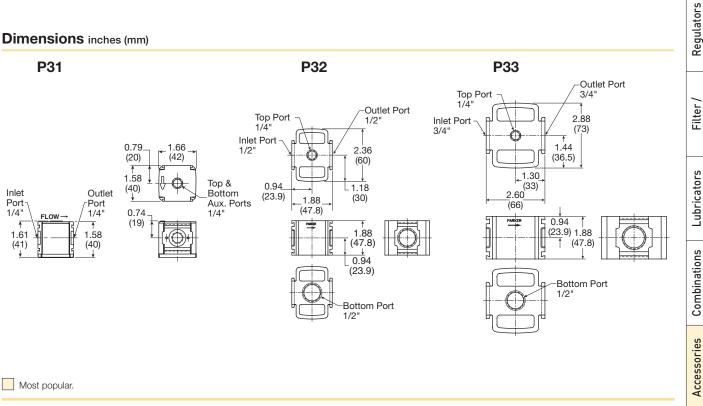
BSPT 2 NPT 9 **Operating information** Operating temperature: -40°F to 150°F (-40°C to 65.5°C) Pressure supply (max): 300 psig (20.7 bar) P31 0.26 lbs (0.12 kg) Weight: P32 0.45 lbs (0.20 kg) P33 0.45 lbs (0.20 kg)

Material Specifications

Body

Aluminum

Dimensions inches (mm)





C

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Introduction

Filters

Coalescers

Regulators

and Kits

PPS1 Pressure Switch

- Long life elastomer diaphragm
- High quality snap action switch
- Field adjustable

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

- Compact design
- Easily customized
- Quick delivery
- NEMA 4, 13

Definitions and Terminology

Repeatability – Accuracy is the maximum allowable set point deviation of a single pressure or temperature switch under one given set of environmental and operational conditions.

Single Pole Double Throw (SPDT) Switching element -

A SPDT switching element has one normally open, one normally closed and one common terminal. Three terminals mean that the switch can be wired with the circuit either normally open (NO), or normally closed (NC), or both.

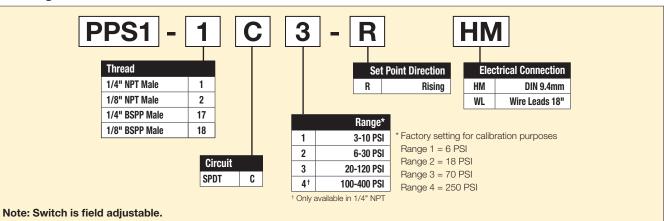
Dead Band — The dead band, sometimes referred to as "differential" or "hysteresis", is the change in pressure between actuation and deactuation set points.



Operating information

Temperature range:	-40°F to 105°F (-40°C to 220°C)
Operating pressure range:	1, 2, 3 - 250 PSI (17.2 bar) 4 - 2000 PSI (137.9 bar)
Set point tolerance	±1 PSI or 5% (.07 bar)
Deadband	10 - 20% of set pressure
Current rating	3A @ 125 VAC 2A @ 30 VDC (Resistive)
Circuit form	SPDT Standard
Cycle life	1 Million

Ordering Information:



Material Specifications

Top View DIN 1.50 (38.1) Pin Configuration Wire Configuration Pin 1 - Common (Black) Pin 2 - N.C. (Blue) Pin 3 - N.O. (Red) 1.20 (30.5) Top View DIN
Top View DIN Pin 1 - Common (Black) Pin 2 - N.C. (Blue) Pin 3 - N.O. (Red) (38.1) (38.1)
1.50 (38.1) Pin 3 - N.O. (Red) (38.1) (30.5)
(38.1) (30.5)
Pin 1 - Common (Black) Pin 2 - N.C. (Blue) Pin 3 - N.O. (Red)
2.30 (63.5) Max. 1-1/8 Hex 1/8-27 NPT 1/8-27 NPT



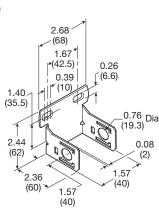
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P31 Accessories

C-Bracket (Fits to filter and lubricator body) P31KA00MW

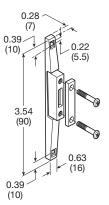




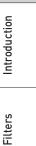
Air Preparation Products Global Air Preparation

T-Bracket w/ Body Connector (O-ring not shown) P31KA00MT





Global Air Preparation



Coalescers

Regulators

Filter / Regulators

Lubricators

Body Connector (O-ring not shown) P31KA00CB

Port Block Kit (O-ring not shown)

1/8 NPT	P31KA91CP
1/4 NPT	P31KA92CP
3/8 NPT	P31KA93CP
1/8 BSPP	P31KA11CP
1/4 BSPP	P31KA12CP
3/8 BSPP	P31KA13CP

1/8 BSPT	31KA21CP
1/4 BSPTF	31KA22CP
3/8 BSPTF	31KA23CP

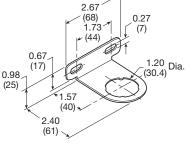


Port Block Kit w/ T-Bracket (O-ring not shown)

1/8 NPT	P31KA91CN
1/4 NPT	P31KA92CN
3/8 NPT	P31KA93CN
1/8 BSPP	P31KA11CN
1/4 BSPP	P31KA12CN
3/8 BSPP	P31KA13CN

1/8 BSPT P31KA21CN 1/4 BSPT P31KA22CN 3/8 BSPT P31KA23CN Angle Bracket (Fits to regulator and filter/regulator body) P31KB00MR





Accessories Combinations and Kits



B77

B

Global Air Preparation

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

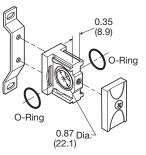
Lubricators

Combinations

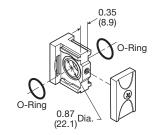
Air Preparation Products **Global Air Preparation**

P32 Accessories

T-Bracket w/ Body Connector P32KA00MT



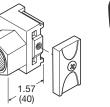
Body Connector P32KA00CB

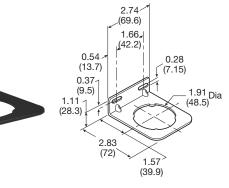


Port Block Kit

1/4 NPT	1/4 BSPT P32KA22CP 3/8 BSPT P32KA23CP 1/2 BSPT P32KA24CP 3/4 BSPT P32KA26CP
3/8 BSPP P32KA13CP 1/2 BSPP P32KA14CP 3/4 BSPP P32KA16CP	\sim

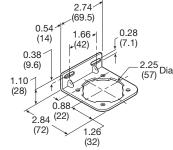
Angle Bracket (Fits to regulator and filter/regulator bonnet) P32KB00MR





L-Bracket (Fits to filter and lubricator body) P32KA00ML

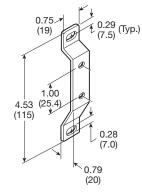




T-Bracket (fits to body co

(fits to body connector or port block) P32KA00MB







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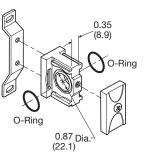
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P33 Accessories

T-Bracket w/ Body Connector P32KA00MT

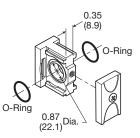




P32KA00CB

Body Connector





Global Air Preparation

B

Introduction

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Port Block Kit

1/4	NPT	P32KA92CP
3/8	NPT	P32KA93CP
1/2	NPT	P32KA94CP
3/4	NPT	P32KA96CP
1/4	BSPP	P32KA12CP
3/8	BSPP	P32KA13CP
1/2	BSPP	P32KA14CP
3/4	BSPP	P32KA16CP

 1/4 BSPT
 P32KA22CP

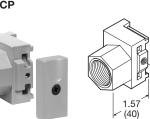
 3/8 BSPT
 P32KA23CP

 1/2 BSPT
 P32KA24CP

 3/4 BSPT
 P32KA26CP

Angle Bracket (Fits to regulator and filter/regulator bonnet)

P33KA00MR



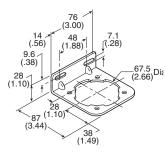


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(76)

L-Bracket (Fits to filter and lubricator body) P33KA00ML

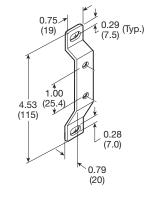




T-Bracket

(fits to body connector or port block) P32KA00MB





Accessories Combinations and Kits



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For inventory, lead times, and kit lookup, visit www.pdnplu.com

B79

Catalog 0700P-8 **Accessories**

Series	Description	Part number	
P31 P32 P33	Panel Mount Nut (Plastic)	P31KA00MP P32KA00MP P33KA00MP	\bigcirc
P31 P32 P33	Panel Mount Nut (Aluminum)	P31KA00MM P32KA00MM P33KA00MM	
P31 P32 P33	5µ Element Kit	P31KA00ESE P32KA00ESE P33KA00ESE	
P31 P32 - P33	1µ Element Kit	P31KA00ES9 P32KA00ES9 P33KA00ES9	
P31 P32 P33	0.01µ Element Kit	P31KA00ESC P32KA00ESC P33KA00ESC	
P31 P32 P33	Adsorber Element Kit	P31KA00ESA P32KA00ESA P33KA00ESA	
P32 / P33	Auto Drain Kit	P32KA00DA	Ŷ
P31 P32 / P33	Differential Pressure Indicator Kit	P31KB00RQ P32KA00RQ	
P31 / P32 / P33	Drip Control Assembly Kit	P32KA00PH	
P31 P32 / P33	Fill Plug Kit	P31KA00PL P32KA00PL	
P31 P32 P33	Lubricator - Plastic Bowl w/ Bowl Guard No Drain	P31KB00BGN P32KB00BGN P33KA00BGN	

Parker For inventory, lead times, and kit lookup, visit www.pdnplu.com

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

Catalog 0700P-8 **Accessories**

Air Preparation Products **Global Air Preparation**

		•		
Series	Description	Part number		
P31 P32 P33	Lubricator - Metal Bowl w/o Sight Gauge No Drain	P31KB00BMN P32KB00BMN P33KA00BMN		В
P32 P33	Lubricator - Metal Bowl w/ Sight Gauge No Drain	P32KB00BSN P33KA00BSN		Global Air Preparation
P31 P32 P33	Metal Bowl w/o Sight Gauge & Manual Drain	P31KB00BMM P32KB00BMM P33KA00BMM		
P31	Metal Bowl w/o Sight Gauge & Pulse Drain	P31KB00BMB	•	Introduction
P32 P33	Metal Bowl w/o Sight Gauge & Auto Drain	P32KB00BMA P33KA00BMA		Filters
P32 P33	Metal Bowl w/ Sight Gauge & Manual Drain	P32KB00BSM P33KA00BSM		
P32 P33	Metal Bowl w/ Sight Gauge & Auto Drain	P32KB00BSA P33KA00BSA		ators Coalescers
P31 P32 P33	Plastic Bowl w/ Bowl Guard & Manual Drain	P31KB00BGM P32KB00BGM P33KA00BGM		/ Regulators
 P31	Plastic Bowl w/ Bowl Guard & Pulse Drain	P31KB00BGB	Ţ.	Filter / Regulators
P32 P33	Plastic Bowl w/ Bowl Guard & Auto Drain	P32KB00BGA P33KA00BGA	Ţ	
P31 P32 P33	Regulator - Relieving Repair Kit	P31KB00RB P32KB00RB P33KA00RB		tions Lubricators
P31 P32	Regulator - Non-Relieving Repair Kit	P31KB00RC P32KB00RC		Combinations
P33		P33KA00RC		essories nd Kits





Catalog 0700P-8

lookup, visit www.pdnplu.com

-Parker

Air Preparation Products **Global Air Preparation**

Se	eries	Description	Connection	Part number	
	31 32 33	Regulator - Main Adjusting S	Spring 0-30 psig (0-2 bar) Kit	P31KB00PR P32KB00PR P33KA00PR	
	31 32 33	Regulator - Main Adjusting S	Spring 0-60 psig (0-4.1 bar) Kit	P31KB00PS P32KB00PS P33KA00PS	
	31 32 33	Regulator - Main Adjusting S	Spring 0-125 psig (0-8.6 bar) Kit	P31KB00PT P32KB00PT P33KA00PT	
P(31 32 33	Regulator - Main Adjusting S	Spring 0-250 psig (0-17 bar) Kit	P31KB00PV P32KB00PV P33KA00PV	
Introduction	31	Square Flush Mounting Gauge Kit	0-60 psig 0-160 psig 0-4 bar 0-11 bar	K4511SCR060 K4511SCR160 K4511SCR04B K4511SCR04B	
	31 / P32	Square Mounting Gauge with Adapter Kit	0-60 psig 0-160 psig 0-4 bar 0-11 bar	P6G-PR90060 P6G-PR90160 P6G-PR10040 P6G-PR10110	
Coalescers	31	1" Round Gauge	0-60 psig / 0-4.1 bar 1/8" 0-160 psig / 0-10 bar 1/8"	K4510N18060 K4510N18160	0.63 (19) 0.75 (19) (19)
Regulators	31	40mm Round Gauge	0-30 psig / 0-2 bar 1/8" 0-60 psig / 0-4.1 bar 1/8" 0-160 psig / 0-10 bar 1/8"	K4515N18030 K4515N18060 K4515N18160	
Filter /	32 / P33	50mm Round Gauge	0-30 psig / 0-2 bar 1/4" 0-60 psig / 0-4.1 bar 1/4" 0-160 psig / 0-10 bar 1/4" 0-300 psig / 0-20 bar 1/4"	K4520N14030 K4520N14060 K4520N14160 K4520N14300	
<u> </u>	31 32 / P33	Body Connector O-ring (Rep (Pack of 10)	placement kit)	P31KA00CY P32KA00CY	80
9	31 32	Tamperproof Knob Kit		P31KB00AT P32KB00AT	96
P	31 32	Tamperproof Lockable Kit		P31KB00AL P32KB00AL	

Solenoid Operators - CNOMO

Solenoid operators, coil combinations

	NC Normal Operator with 22 x 30 standard coil	NC Normal Operator with 30 x 30 standard coil
Working pressure	0 to 10 bar	0 to 10 bar
Ambient temperature	-10°C to 60°C *	-10°C to 60°C *
Power (DC)	4.8W	2.7W
Power (AC)	8.5VA	4.9VA
Voltage tolerance	+/-10%	+/-10%
Duty cycle	100%	100%
Insulation class	F	F
Electric connection	B Industrial	DIN 43650A
Protection	IP65	IP65
Approval		UL/CSA
Working media	All neutral media such a	as compressed air

* Limited to 50°C if use with 100% duty cycle

P31 Series only - Solenoid coils 15mm NC

	Voltage	Order code Override, blue, non-locking flush	Weight (kg)
	24VDC	PS2982B49P	0.038
- I I	115VAC 50Hz /	PS2982B53P	0.038
	120VAC 60Hz		

Solenoid Coils with M12 Connection

Voltage	Part number	Weight (kg)
Direct current		
24VDC	P2FC6449	0.065

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavorable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the Maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All connectors/cable plugs EN175301-803 with LED's include this type of circuit protection.

Materials

Encapsulation material:

Pilot Valve	
Body:	Polyamide
Armature tube:	Brass
Plunger & core:	Corrosion resistant Cr-Ni steel
Seals:	Fluorocarbon
Screws:	Stainless steel
Coil	

Thermoplastic as standard

Duroplast for M12 connection

Spare Base Solenoid Pilot Operator **CNOMO NC**

Description	Part number non-lock manual override	Weight (kg)
Standard Duty	P2FP23N4B	0.065
No Override	P2FP23N4A	0.065

Note: Solenoid pilot operators are fitted to the Global range. Order the above part numbers for spares. The operators are supplied with mounting screws and interface 'O' rings. Coils and connectors must be ordered separately.

Solenoid Coils with DIN A or Industrial B Connection

	Voltage	22mm x 30mm Part number B industrial standard	Weight (kg)	30mm x 30mm Part number DIN 43650A standard	Weight (kg)
	Direct current				
	24VDC	P2FCB449	0.093	P2FCA449	0.105
Ser HE	Alternative current				
	110V 50Hz, 120V 60Hz	P2FCB453	0.093	P2FCA453	0.105

Most popular.



Parker Hannifin Corporation Pneumatic Division Richland, Michigan

www.parker.com/pneumatics

Introduction

Lubricators

Combinations

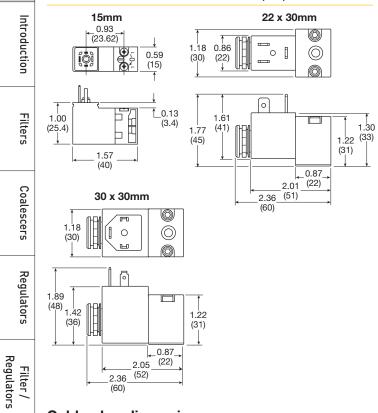
Accessories and Kits

Accessories and Kits

Solenoid Connectors / Cable Plugs EN175301-803

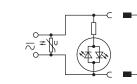
		Description	Part number 22mm Form B Industrial	Part number 30mm Form A DIN 43650A
	With standard screw	Standard IP65 without flying lead	PS2429BP	PS2028BP
R		With LED and protection 24VAC/DC	PS243079BP	PS203279BP
D		With LED and protection 110VAC	PS243083BP	PS203283BP
Global Prepar	With cable	Standard with 2m cable IP65	PS2429JBP	PS2028JCP
		24VAC/DC, 2m cable LED and protection IP65	PS2430J79BP	PS2032J79CP
Air ation		110VAC/DC, 2m cable LED and protection IP65	PS2430J83BP	PS2032J83CP

Solenoid coil dimensions inches (mm)



Electrical schematics

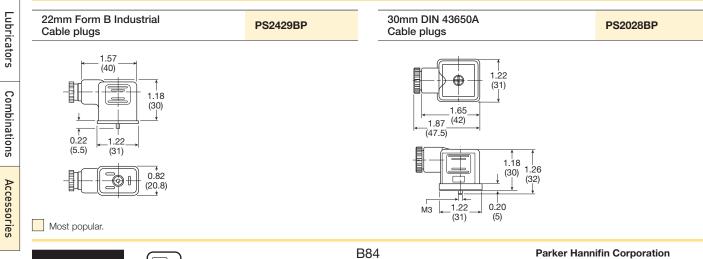
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PS243079BP	PS203279BP
PS2430J79BP	PS2032J79CP
PS243083BP	PS203283BP
PS2430J83BP	PS2032J83CP
PS294679BP	PS294683BP
PS2946J79BP	PS2946J83BP
	PS2430J79BP PS243083BP PS2430J83BP PS294679BP

Cable plug dimensions inches (mm)

Q



For inventory, lead times, and kit

lookup, visit www.pdnplu.com

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

Catalog 0700P-8 Parker Pneumatic

Air Preparation Products Contents - www.parker.com/pneu/frl

parker.com/pneu/frl



Air Preparation Products P3Y Series

Introduction	C3
Particulate Filters	C4-C5
Coalescing Filters	C6-C7
Regulators	C8-C11
Proportional Pressure Regulator	C12-C13
Filter / Regulators	C14-C15
Lubricators	C16-C17
Combinations	C18-C19
Soft Start / Dump Valves	C20-C22
Accessories	C23-C27

P3Y Products







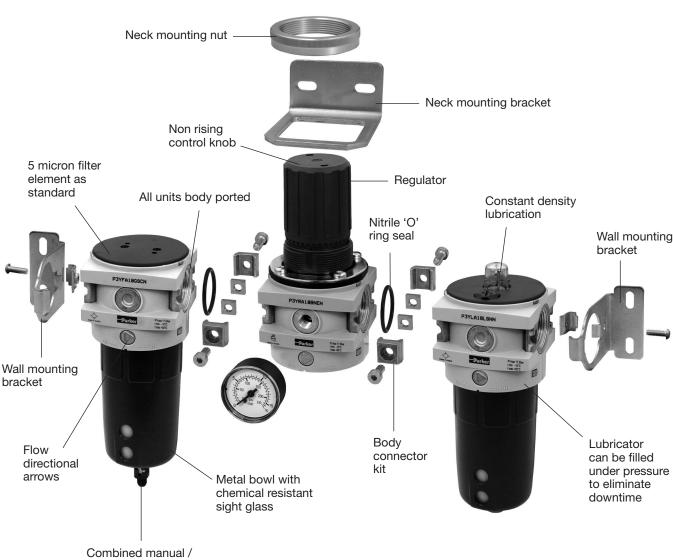


P3Y System

The P3Y system allows units to be connected together without the use of pipe connectors. This saves space, provides constant mounting centers, and maintains a modern aesthetically pleasing appearance.

The P3Y filters are specially designed to efficiently filter out rust, dirt, moisture and other impurities from compressed air lines. Operation is fully automatic with a minimum of pressure drop. Coalescing filters and adsorber filters for high purity air are also included in the P3Y series. The P3Y regulators are designed to provide quick response and accurate pressure regulation for the most demanding hi-flow industrial applications.

The rolling diaphragm was designed for long trouble-free operation and will not rupture or tear under high cycle or demanding applications. The P3Y mist lubricators are designed to provide lubrication for many general purpose applications.



semi-auto drain & auto drain options



P3Y Particulate Filter

- Integral 3/4" or 1" ports (NPT & BSPP)
- High efficiency particulate element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction

2

 Low temperature -40°C (-40°F) with combined manual / semi-auto drain as standard



P3Y Products

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

Combinations

Accessories and Kits



Manual drain

Auto drain

2

Port Size	Description	Part Number
3/4"	Combined Manual /Semi-Auto Drain	P3YFA96ESCN
3/4"	Auto Drain	P3YFA96ESAN
1"	Combined Manual /Semi Auto Drain	P3YFA98ESCN
1"	Auto Drain	P3YFA98ESAN



Operating information

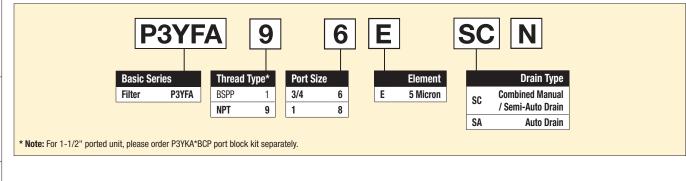
Supply pressure (max)*:		254 psig (17.5 bar)	
Operating temperature: Auto drain Combined drain		14°F to 140°F (-10°C to 60°C) -40°F to 140°F (-40°C to 60°C)	
Standard filtration		5 micron	
Manual / semi-auto drain	:	Closed at 11.6 psig (0.8 bar) G1/8 thread male	
Auto drain bowl pressure	:	Closed at 11.6 psig (0.8 bar)	
Bowl capacity:		4.4 US oz. (130 cm ³)	
Standard filtration:		5 micron	
Flow capacity [†] :	3/4" 1"	170 scfm (80.2 dm³/s, ANR) 170 scfm (80.2 dm³/s, ANR)	
Fluid:		Compressed air	
Weight:		1.98 lb (0.9 kg)	
[†] Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure drop.			

 * Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

Air quality:

Within ISO 8573-1: 1991 Class 3 and 5 (Particulates) Within ISO 8573-1: 2001 Class 6 and 7 (Particulates)

Ordering Information:



Parker

d kit

Catalog 0700P-8 Particulate Filter

Material specifications

Body	Aluminium
Sight glass and bowl	Polypropylene
Body cover	ABS
Element	Sintered P.E.
Seals	Nitrile NBR
Manual / semi-auto drain	Acetal
Automatic drain	PA / Ø 10mm brass connection

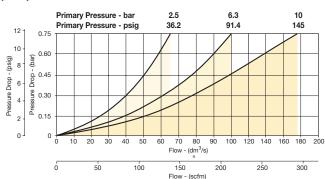
Repair and Service Kits

5 micron element kit	P3YKA00ESE
40 micron element kit	P3YKA00ESG
Bowl kit with combined manual / semi auto drain	P3YKA00BSC
Bowl kit with auto drain	P3YKA00BSA

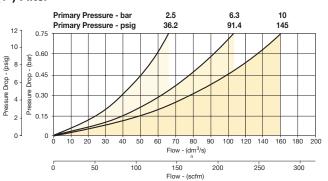
Air Preparation Products **P3Y Series**

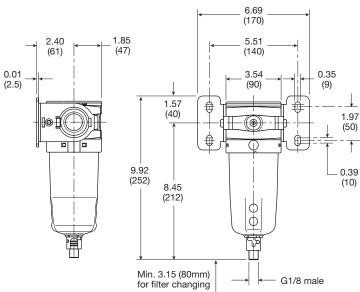
Flow characteristics











Inches (mm)



P3Y Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Accessories and Kits

P3Y Coalescing Filter

- Extended high efficiency filter element provides greater filtration surface area.
- Integral 3/4" or 1" ports (BSPP & NPT)
- Removes liquid aerosols and sub micron particles
- Oil free air for critical applications, such as air gauging, pneumatic instrumentation and control
- Adsorber activated carbon element removes oil vapors and most hydrocarbons
- Robust but lightweight aluminum construction



Notes:	To optimize the life of the coalescing element, it is advisable to
	install a P3YFA pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of the adsorber element, it is advisable to install a P3Y coalescing 0.01 micron filter upstream of the adsorber filter.

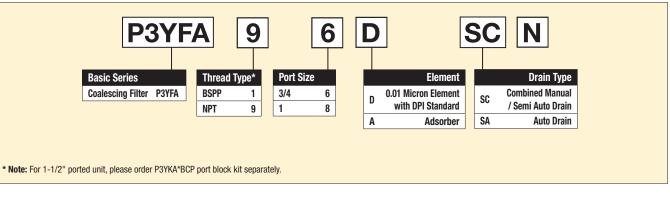
Port Size	Description	Part Number
3/4"	Coalescing Filter 0.01 Micron, Combined Manual / Semi-Auto Drain	P3YFA96DSCN
3/4"	Coalescing Filter 0.01 Micron, Auto Drain	P3YFA96DSAN
1"	Coalescing Filter 0.01 Micron, Combined Manual / Semi-Auto Drain	P3YFA98DSCN
1"	Coalescing Filter 0.01 Micron, Auto Drain	P3YFA98DSAN

Operating information

Supply pressure (max)*:	254 psig (17.5 bar)	
Operating temperature:	14°F to 140°F (-10°C to 60°C)	
Manual / auto drain:	Closed at 11.6 psig (0.8 bar) G1/8 thread male	
Media specifications:		
Adsorber, max oil carryover	0.008 mg/m ³ (PPM w/w)	
Bowl capacity:	4.4 US oz. (130 cm ³)	
Standard filtration:	0.01 micron	
Flow capacity [†] : 3/4" 1"	275 scfm (176.9 dm³/s, ANR) 307 scfm (144.8 dm³/s, ANR)	
Fluid:	Compressed air	
Weight:	3.5 lb (1.6 kg)	
[†] Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure.		

 * Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

Ordering Information:



Most popular.



Catalog 0700P-8 **Coalescing Filter**

Material specifications

material opeenieatiene	
Body	Aluminium
Sight glass and bowl	Polypropylene
Filter cover	ABS
Coalescing element	Borosilicate & nano fibers
Top & bottom end cap (coalescing)	Aluminium
Adsorber element	Activated carbon
Top & bottom end cap (adsorber)	Glass filled nylon
Support cylinders	Grade 430 stainless steel
Support media	Polypropylene
Anti re-entrainment barrier	Polyester
Encapsulation	Epoxy resin / hardener
Seals	Nitrile NBR
Manual / semi-auto drain	Acetal
Auto drain	PA / Ø 10mm brass connection
Differential pressure indicator, body	Acetal
Differential pressure indicator, internal parts	Acetal
Differential pressure indicator, spring	Stainless steel
Differential pressure indicator, seals	Nitrile NBR
Differential pressure indicator, support plate	ABS
Differential pressure indicator, screws	Steel / zinc plated

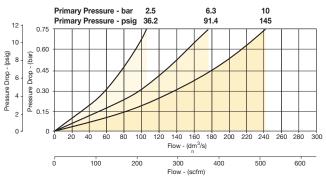
Repair and Service Kits

-	
0.01 micron element kit	P3YKA00ESC
Adsorber element kit	P3YKA00ESA
Bowl kit with combined manual / semi auto drain	P3YKA00BSC
Bowl kit with auto drain	P3YKA00BSA
Differential pressure indicator kit	P3YKA00RQ

Air Preparation Products P3Y Series

Flow characteristics

(3/4") 0.01 Micron Coalescing Filter Saturated



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P3Y Products

Filters

Coalescers

Regulators

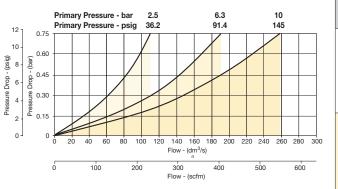
Filter / Regulators

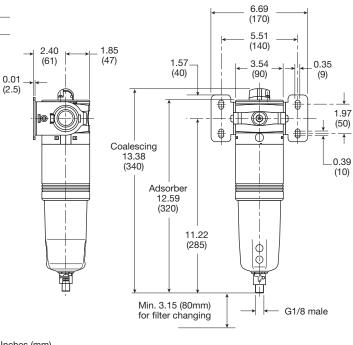
Lubricators

Combinations

Accessories and Kits

(1") 0.01 Micron Coalescing Filter Saturated





Inches (mm)



C7

P3Y Regulators

- Integral 3/4" or 1" ports (BSPP and NPT)
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus rolling diaphragm provides quick response and accurate pressure regulation
- Optional tamperproof regulator padlock
- Reverse flow / relieving option
- Low temperature -40°C (-40°F)



P3Y Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Port

Size

3/4"

3/4"

1"



Self relieving regulator with gauge

Description

174 psig Relieving

174 psig Relieving

174 psig Relieving + Pressure Gauge

174 psig Relieving + Pressure Gauge

Reverse flow

Non-relieving regulator

Part Number

P3YRA96BNEN

P3YRA96BNFN

P3YRA98BNEN

P3YRA98BNFN



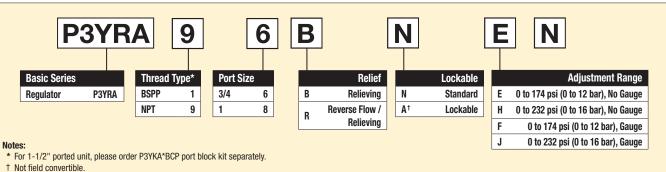
Operating information

Air Preparation Products

P3Y Series

Supply pressure (max)*:		254 psig (17.5 bar)	
Operating temperat	ure:	-40°F to 140°F (-40°C to 60°C)	
Flow capacity [†] :	3/4" 1"	380 scfm (179.3 dm³/s, ANR) 550 scfm (259.6 dm³/s, ANR)	
Fluid:		Compressed air	
Gauge port (x2):		1/4"	
Weight:		2.4 lb (1.08 kg)	
[†] Inlet pressure 145 psig (10 bar) inlet pressure, 91.4 psig (6.3 bar) set pressure and 7.3 psig (0.5 bar) pressure drop.			
 * Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C). 			

Ordering Information



Most popular.



Material specifications

Body	Aluminium
Bonnet	Glass filled polyamide
Regulator cover	ABS
Control knob	Glass filled polyamide
Valve	Brass / NBR
Seals	Nitrile NBR
Screws	Steel / zinc plated

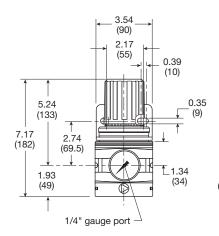
Repair and Service Kits

Angle bracket + metal lock ring	P3YKA00MS
Panel mounting nut	P3YKA00MM
Diaphragm kit (relieving type)	P3YKA00RR
Diaphragm kit (non-relieving type)	P3YKA00RN
0 to 160 psig (0 to 10 bar), gauge 1/4" port	K4520N14160
0 to 300 psig (0 to 20 bar), gauge 1/4" port	K4520N14300

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.

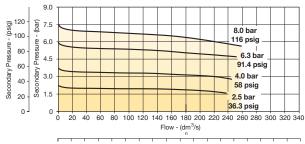


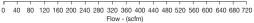
Inches (mm)

Air Preparation Products **P3Y Series**

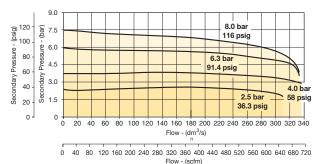
Flow characteristics

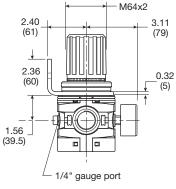
(3/4") Regulator





(1") Regulator





C

P3Y Products

Lubricators



C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

Air Preparation Products **P3Y Series**

P3Y Pilot Operated Regulator

- Integral 3/4" or 1" ports (BSPP & NPT)
- Pilot controlled regulators can be mounted "out of reach" with pilot regulator installed in a convenient location
- Constant pilot bleed control for accurate pressure control
- Balanced poppet provides quick response
- High flow



Coalescers

Regulators

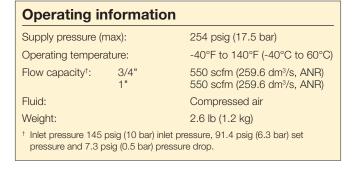
Filter / Regulators

Lubricators

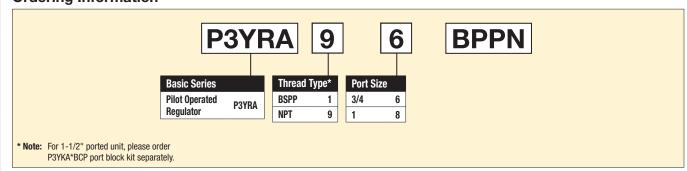
Combinations



Port Size	Description	Part Number
3/4"	Pilot operated regulator	P3YRA96BPPN
1"	Pilot operated regulator	P3YRA98BPPN



Ordering Information



Most popular.



Material specifications

Body	Aluminium
Body cover	ABS
Valve	Brass / NBR composite
Pilot valve booster	Aluminum
Seals	Nitrile NBR
Screws	Zinc plated steel

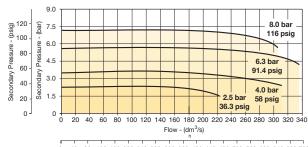
\land WARNING

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

Air Preparation Products **P3Y Series**

Flow characteristics

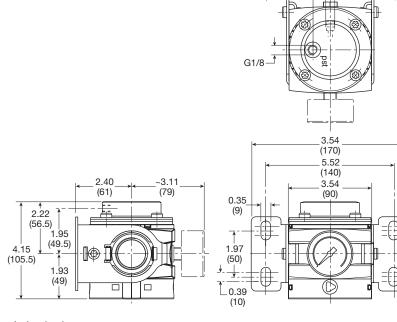
3/4" and 1" Pilot Regulator



1/8

0.75 (19)

0 40 80 120 160 200 240 280 320 360 400 440 480 520 560 600 640 680 720 Flow - (scfm)



Inches (mm)

Lubricators

Combinations

Accessories and Kits



For inventory, lead times, and kit lookup, visit www.pdnplu.com

C11

Air Preparation Products **P3Y Series**

P3Y Proportional Pressure Regulator

- Integral 3/4" or 1" ports (BSPP & NPT)
- Accurate output pressure
- Very fast response times

С

P3Y Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Accessories and Kits • Robust but lightweight design

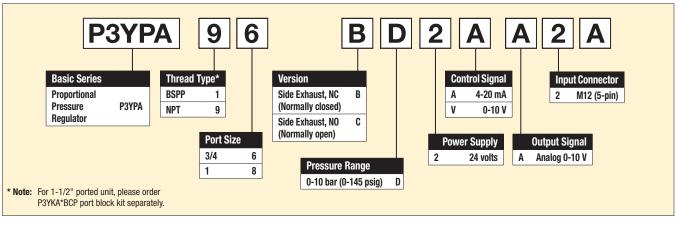


Port Size	Description	Part Number
3/4"	Normally Closed, 0 - 10 bar (0 to 145 psig)	P3YPA96BD2VA2A
1"	Normally Closed, 0 - 10 bar (0 to 145 psig)	P3YPA98BD2VA2A

Operating information

operating into	mation				
Operating pressure: Inlet pressure ¹ :	P1 min P1 max	14.5 psig (1 bar) 232 psig (16 bar)	Power consumption: Set value input:	I _{Bmax} Uw	0.15 A V 0-10
Operating pressure: Outlet pressure	P² min P² max	2.9 psig (0.2 bar) 145 psig (10 bar)		I	mA 0-20 mA 4-20
Operating temperature	e:	32°F to 122°F (0°C to 50°C)	Input resistance:	Re	243 Κ Ω
Flow capacity [†] :		706 scfm (332 dm³/s, ANR) I/min 20000 m³/h 1200	Actual valve output: Output current:	Ux I _{Amax}	0 - 10 V 10 mA
Hysteresis:	P ² max	< 1%	Degree of protection: Fluid:		IP65 to DIN 40050, EN 60529 Compressed air
Repeatability:	P² max	< 0.5%	Weight:		1.2 lb (2.7 kg)
Sensitivity:	P² max	< 0.5%	¹) $p^1 > p^2 + 10\% p^2$		1.2 ID (2.7 Kg)
Linearity:	P² max	< 1%	²) at $p^1 - 10$ bar to $p^2 - 10$	6.3 bar	
Nominal voltage: Residual ripple:		Un V DC 24 V = ± 10% 10%	[†] Inlet pressure 91.4 psig pressure drop.	ı (6.3 bar) inlet	pressure and 7.3 psig (0.5 bar)

Ordering Information





C12

Catalog 0700P-8 **Proportional Pressure Regulators**

Material specifications Housing

Pilot valve booster	Brass / NBR
	composite aluminium
Standard seals	NBR
Body cover screws	Steel / zinc plated

Aluminium

Cables

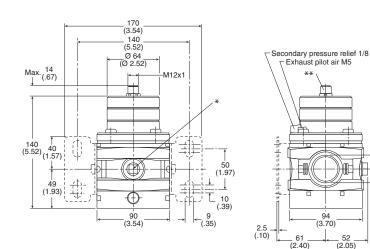
Туре	Part number
M12, 5-pin female to flying lead cable, TPE; 2m (6.6 ft)	RKC 4.5T-2/S1587

Connection diagram

5 2

Connector M12 x 1

Pin No.		Function	
1	24 V	Supply	
2	0 V	Reference & mass capacity	
3	0 - 10 V	Set value input	
4	0 V	Signal	
5	0 - 10 V	Analog output	



* Two opposite gauge ports 1/4, plug screw mounted

** Connection for 5-pin plug M12 x 1



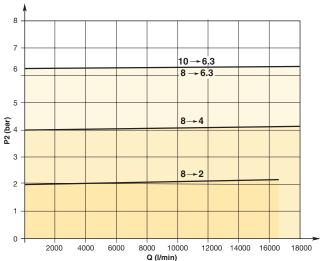
For inventory, lead times, and kit lookup, visit www.pdnplu.com

C13

G1 (3/4)

Air Preparation Products **P3Y Series**

Flow characteristics





C

P3Y Products

P3Y Filter / Regulator

- Integral 3/4" or 1" ports (BSPP or NPT)
- High efficiency element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Reverse flow / relieving option

P3Y Products

Filters

Coalescers

Regulators

Regulators

Filter /

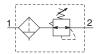
Lubricators

Combinations

Accessories

and Kits

 Low temperature -40°C (-40°F) with combined manual / semi-auto drain as standard





Port Size	Description (0 To 174 Psi)	Part Number
3/4"	Relieving, Combined Manual / Semi-Auto Drain	P3YEA96ESCBNEN
3/4"	Relieving, Auto Drain	P3YEA96ESABNEN
3/4"	Relieving, Gauge, Combined Manual / Semi-Auto Drain	P3YEA96ESCBNFN
3/4"	Relieving, Gauge, Auto Drain	P3YEA96ESABNFN
1"	Relieving, Combined Manual / Semi-Auto Drain	P3YEA98ESCBNEN
1"	Relieving, Auto Drain	P3YEA98ESABNEN
1"	Relieving, Gauge, Combined Manual / Semi-Auto Drain	P3YEA98ESCBNFN
1"	Relieving, Gauge, Auto Drain	P3YEA98ESABNFN



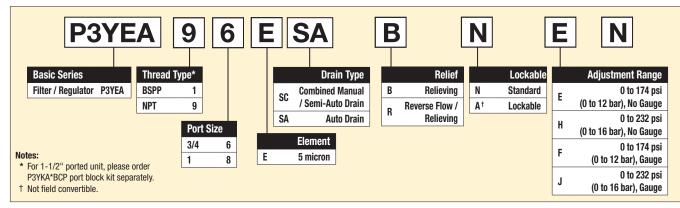
Operating information

Supply pressure (max)*:		254 psig (17.5 bar)
Operating temperature: Auto drain Combined drain		14°F to 140°F (-10°C to 60°C) -40°F to 140°F (-40°C to 60°C)
Standard filtration:		5 micron
Manual / semi-auto drain:		Closed at 11.6 psig (0.8 bar) G1/8 thread male
Auto drain bowl pressure:		Closed at 11.6 psig (0.8 bar)
Bowl capacity:		4.4 US oz. (130 cm ³)
Standard filtration:		5 micron
Flow capacity [†] : 3/4" 1"		335 scfm (158.1 dm³/s, ANR) 465 scfm (219.5 dm³/s, ANR)
Fluid:		Compressed air
Gauge port (x2):		1/4"
Weight:		3.3 lb (1.5 kg)
[†] Inlet pressure 91.4 psig (6.3 pressure drop.	3 bar) inlet p	pressure and 7.3 psig (0.5 bar)
 Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C). 		

Air quality:

Within ISO 8573-1: 1991 Class 3 and 5 (Particulates) Within ISO 8573-1: 2001 Class 6 and 7 (Particulates)

Ordering Information



Most popular.



Catalog 0700P-8 Filter / Regulators

Material specifications

Body	Aluminium
Sight glass and bowl	Polypropylene
Body cover	ABS
Element	Sintered polypropylene
Seals	Nitrile NBR
Manual / semi-auto drain	Acetal
Auto drain	PA / Ø 10mm brass connection
Bonnet	Glass filled polyamide
Control Knob	Glass filled polyamide
Valve	Brass / NBR
Screws	Steel / zinc plated

Repair and Service Kits

5 micron element kit	P3YKA00ESE
Bowl kit with combined manual/semi auto drain	P3YKA00BSC
Bowl kit with auto drain	P3YKA00BSA
Key lock kit	P3XKA00AS
Diaphragm kit (relieving type)	P3YKA00RR
Diaphragm kit (non-relieving type)	P3YKA00RN
Angle bracket + metal lock ring	P3YKA00MS
Panel mount nut	P3YKA00MM

🕂 WARNING

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

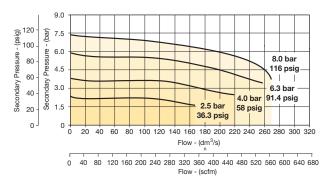
CAUTION:

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.

Air Preparation Products **P3Y Series**

Flow characteristics

(3/4") 5 Micron Filter / Regulator



C

P3Y Products

Filters

Coalescers

Regulators

Filter / Regulators

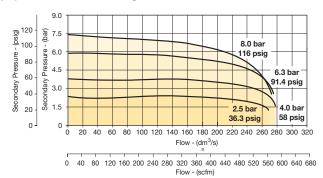
Lubricators

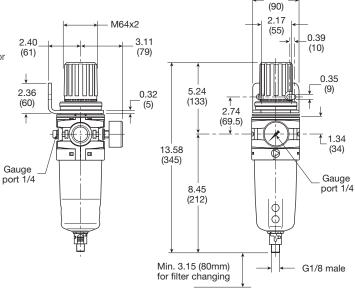
Combinations

Accessories

and Kits

(1") 5 Micron Filter / Regulator







C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

Inches (mm)

C15

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3.54

P3Y Lubricator

- Integral 3/4" or 1" ports (BSPP and NPT)
- Robust but lightweight aluminium construction
- Proportional oil delivery over a wide range of air flows
- Possible to fill under system pressure eliminating down time
- Large oil reservoir

С

P3Y Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Port

Size

3/4"

1"



Part Number

P3YLA96LSNN

P3YLA98LSNN



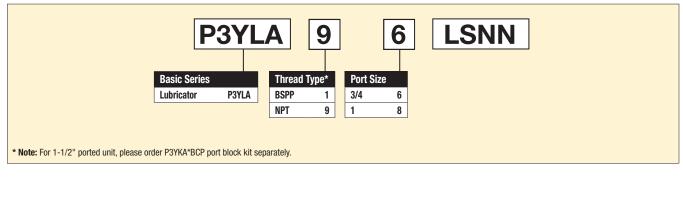
	Operating int	formation	
	Supply pressure (max)*: Operating temperature*:		254 psig (17.5 bar)
			14°F to 140°F (-10°C to 60°C)
	Flow capacity [†] :	3/4" 1"	315 scfm (148.2 dm³/s, ANR) 390 scfm (184.1 dm³/s, ANR)
	Fluid:		Compressed air
	Weight:		1.8 lb (0.8 kg)
	 [†] Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure drop. * Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C). 		
	Low flow start point (lubrication pick-up): at 6.3 bar (91.4 psig) inlet pressure 0.5 dm ³ /s (1.1 scfm).		

Ordering Information

Description

Oil mist, fill under pressure

Oil mist, fill under pressure



Most popular.



Catalog 0700P-8 Lubricators

Material specifications

Body	Aluminium
Sight glass and bowl	Polypropylene
Sight dome	Polyamide
Lubricator cover	ABS
Top & bottom end cap	Glass filled nylon
Bayonet support	Nylon
Seals	Nitrile NBR

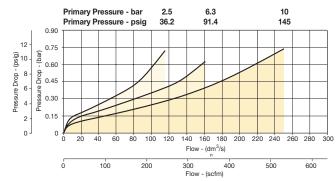
Repair and Service Kits

Bowl kit	P3YKA00BSN
Refill plug	P3YKA00PL
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

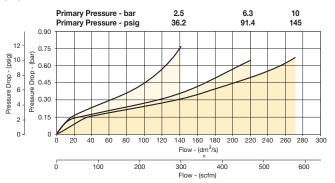
Air Preparation Products **P3Y Series**

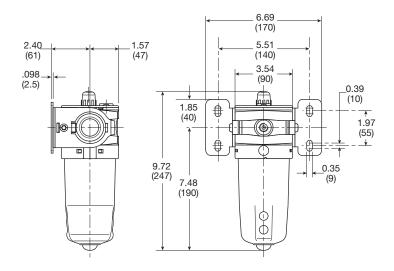
Flow characteristics

(3/4") Lubricator









Inches (mm)

C

P3Y Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators



For inventory, lead times, and kit lookup, visit www.pdnplu.com

P3Y Combinations



Filter + Regulator + Lubricator Combinations



5 micron element, 12 bar (174 psig) regulator + gauge and wall mounting bracket

Port Size	Flow [‡] scfm	Weight Ib (kg)	Combined Manual / Semi-Auto Drain [†]	Auto Drain [†]
3/4"	170	7.3 (3.3)	P3YCB96SECNFLNF	P3YCB96SEANFLNF
1"	170	7.3 (3.3)	P3YCB98SECNFLNF	P3YCB98SEANFLNF

 \dagger Standard part numbers shown in bold. For other models refer to Options chart below.

‡ Flow with 10 bar (145 psig) inlet pressure, 6.3 bar (91.4 psig) set pressure and 1 bar (14.5 psig) pressure drop.



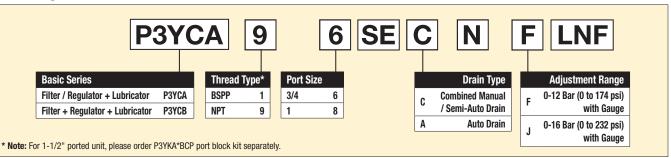
Filter / Regulator + Lubricator Combinations 5 micron element, 12 bar (174 psig) regulator + gauge and wall mounting bracket

Port Size	Flow [‡] scfm	Weight Ib (kg)	Combined Manual / Semi-Auto Drain [†]	Auto Drain [†]
3/4"	315	6.2 (2.8)	P3YCA96SECNFLNF	P3YCA96SEANFLNF
1"	340	6.2 (2.8)	P3YCA98SECNFLNF	P3YCA98SEANFLNF

† Standard part numbers shown in bold. For other models refer to Options chart below.

‡ Flow with 10 bar (145 psig) inlet pressure, 6.3 bar (91.4 psig) set pressure and 1 bar (14.5 psig) pressure drop.

Ordering Information:



_ubricators

Combinations

Accessories and Kits

P3Y Products

Filters

Coalescers

Regulators

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

CAUTION:

REGULATOR PRESSURE ADJUSTMENT -

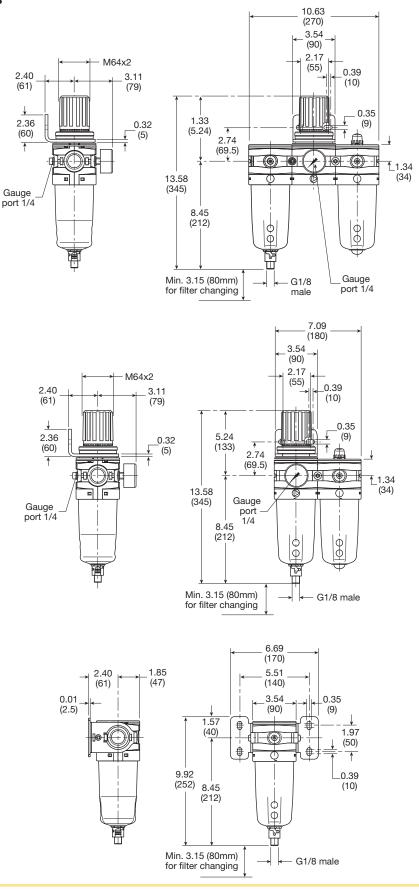
The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Most popular.



C18

P3Y Combinations



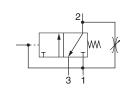


P3Y Combined Soft Start / Dump Valve

- Modular design with 3/4" & 1" integral ports (BSPP or NPT)
- · Provides for the safe introduction of pressure
- Automatically dumps downstream pressure on the loss of pilot signal
- Adjustable slow start
- · Solenoid or air pilot options
- High flow & exhaust capability

P3Y Series Combined Soft Start / Dump Valves, provide for the safe introduction of pressure to machines or systems. Soft Start / Dump Valves when set, allow the pressure to gradually build to the set point before fully opening to deliver full flow at line pressure.

The controlled introduction of pressure can be an important safety factor and prevent damage to tooling when air pressure is introduced at machine or system start up.



Part Number
P3YTA96PPN
P3YTA96SCNA2CN
P3YTA98PPN
P3YTA98SCNA2CN



Operating information

Operating pressure (max): 30mm coil		232 psig (16 bar)	
Operating pressure ((min):	2.9 psig (0.2 bar)	
Operating temperature*: Solenoid operated Air pilot operated		14°F to 140°F (-10°C to 60°C) 14°F to 140°F (-10°C to 60°C)	
Air pilot port:		1/8"	
Exhaust port:	NPT BSPP	3/4" 1"	
Gauge port:		1/4"	
Flow capacity [†] :	3/4" 1"	371 scfm (175.1 dm³/s, ANR) 424 scfm (200.1 dm³/s, ANR)	
Fluid:		Compressed air	
Weight:	Air pilot 30mm coil	3.1 lb (1.4 kg) 3.5 lb (1.6 kg)	
t letet success we of 4 sets (0.0 here) inter success and 7.0 sets (0.5 here)			

⁺ Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure drop.

Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).

Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure.

6 P3YT 9

BSPP

NPT

P3YTA

Thread Type*

1

9

Port Size

6

8

3/4

1

Solenoid Voltage 2CN 24VDC Solenoid Type 30mm CNOMO Coil Α D 30mm CNOMO Coil (M12 connection)

Solenoid type only

Most popular.



Ordering Information

Basic Series

Soft Start /

Dump Valve

* Note: For 1-1/2" ported unit, please order

P3YKA*BCP port block kit separately.

C20

Pilot Type

External Air Pilot

Solenoid Pilot

Ρ

S

Actuator Interface

Threaded Air Pilot

C

Ρ

30mm Operator

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P3Y Products

Filters

Coalescers

Regulators

Accessories

and Kits

(Revised 08-23-17)

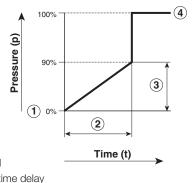
Air Preparation Products P3Y Series

Material specifications

-	
Body	Aluminium
Body cover	ABS
Valve	Brass / NBR composite
Pilot valve booster	Aluminum
Seals	Nitrile NBR

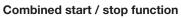
Note: For solenoid coil and cable plug options see solenoid operator pages.

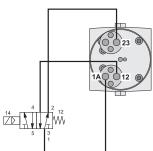
Flow characteristics



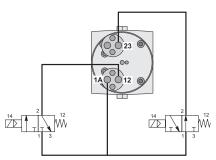
- (1) Start signal
- 2 Switching time delay
- (3) Gradual pressure build up

(4) Operating pressure $p^2 (= p^1)$

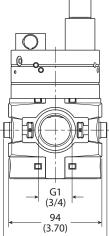


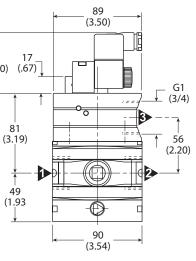


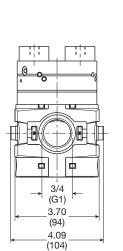
Combined start / stop function with acknowledgement

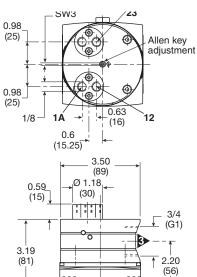


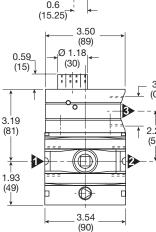
SW3 25 (.98) ቆ 25_ (.98) 15.25 (.6) 89 (3.50)61 17 (.67) (2.40) 00 81 (3.19)













C

Accessories and Kits



C

C21

Air Preparation Products P3Y Series

P3Y Soft Start Valve

- Integral 3/4" or 1" ports
- Smooth start-up of pneumatic system
- Air pilot operation
- · Adjustable slow start
- High flow

C

P3Y Products

Filters

Coalescers



	• •	
ription		Part Number

Port Size	Description	Part Number
3/4"	Soft Start Valve	P3YSA96Y0N
1"	Soft Start Valve	P3YSA98Y0N

Material specifications

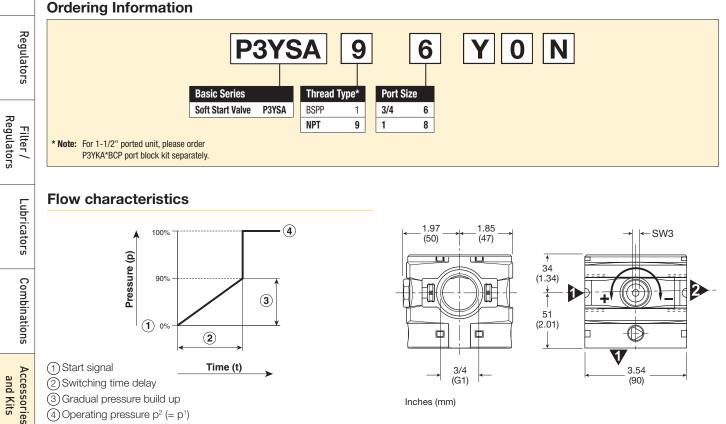
-	
Body	Aluminium
Body cover	ABS
Valve	Brass / NBR composite
Pilot valve booster	Aluminum
Seals	Nitrile NBR



Operating information

Operating pressure (max):	254 psig (17.5 bar)	
Operating pressure (min):	29 psig (2 bar)	
Operating temperature*: Solenoid operated Air pilot operated	14°F to 140°F (-10°C to 60°C) 14°F to 140°F (-10°C to 60°C)	
Flow capacity [†] : 3/4" 1"	324 scfm (152.9 dm³/s, ANR) 324 scfm (152.9 dm³/s, ANR)	
Fluid:	Compressed air	
Weight:	1.8 lb (0.8 kg)	
 [†] Inlet pressure 91.4 psig (6.3 bar) inlet pressure and 7.3 psig (0.5 bar) pressure drop. * Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C). 		

Snap pressure: Full flow when downstream pressure reaches 50% of the inlet pressure.



Inches (mm)

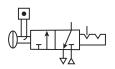
Most popular.



(4) Operating pressure $p^2 (= p^1)$

C22

- Positive bubble tight shut-off
- 90° turn handle to prevent unauthorized adjustment
- Pad lockable (up to 6 times)
- When the inlet pressure is turned off the downstream vents through the exhaust port



Ball / Lockout Valve shuts off downstream line pressure in the closed position with a 90° turn of the handle. In the closed position, inlet air pressure is blocked and downstream / system air is exhausted through a threaded port. To prevent unauthorized adjustment, the padlock slide may be assembled on either side. It is recommended that this slide is installed after final system assembly.

The Safety Lockout valves conform to OSHA #29 CFR part 1910 - control of hazardous energy source (lockout / tagout).



Operating information					
Operating pressure (max):		254 psig (17.5 bar)			
Operating pressure (min):		29 psig (2 bar)			
Operating temperature:		14°F to 140°F (-10°C to 60°C)			
Flow capacity [†] :	3/4" 1"	705.6 scfm (333 dm³/s, ANR) 705.6 scfm (333 dm³/s, ANR)			
Weight:	3/4" 1"	2.4 lb (1.1 kg) 2.4 lb (1.1 kg)			

P3Y Products

Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

Combinations

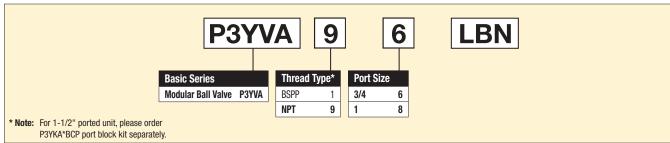
Accessories

and Kits

(90)

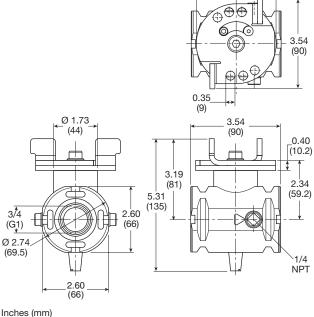
1/4

Ordering Information



Material Specifications

Body	Aluminium
Valve ball	Brass / nickle plated
Handle	Aluminum
Seals	Nitrile NBR
Exhaust silencer	Sintered bronze





C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

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3 15

(80)

Modular Manifold



P3Y Series Manifolds provide up to 4 extra outlet ports. They may be assembled at any position in a combination e.g. before the lubricator to provide oil free take off or at the end of a combination to provide extra outlet ports.

Thread Type	Part Number
BSPP	P3YMA1V0N
NPT	P3YMA9V0N

Port Sizes

P3Y Products

Filters

Coalescers

Inlet Port	Тор	Bottom	Front and Back
3/4"	1/8"	1"	1/4"
1"	1/8"	1"	1/4"

Optional Port Block Kits



Ordering Information

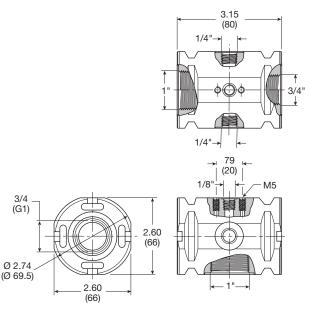
P3YK	Α	9]	B	CP
Basic Series	Thread	Туре	Port Size	;	
Port Blocks P3YKA	BSPP	1	1-1/2	В	
	NPT	9			

C

Air Preparation Products **P3Y Series**

Material specifications

Body	Aluminium
Weight	0.7 kg (1.5 lb)

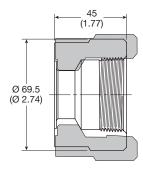


Inches (mm)

- To change port sizes Port Block Kits are available, they are attached to any unit utilizing the connecting kit.
- Allows assemblies to be removed from a hard piped system.

Material specifications

Body	Aluminium
Weight	0.65 kg (1.43 lb)



Inches (mm)



C24

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Regulators Filter/ Lubricators Combinations Regulators

Accessories and Kits

Solenoid Operators - CNOMO

Technical data -

Solenoid operators, coil combinations

	NC Normal Operator with 22 x 30 standard coil	NC Normal Operator with 30 x 30 standard coil	
Working pressure	0 to 10 bar	0 to 10 bar	
Ambient temperature	-10°C to 60°C *	-10°C to 60°C *	
Power (DC)	4.8W	2.7W	
Power (AC)	8.5VA	4.9VA	
Voltage tolerance	+/-10%	+/-10%	
Duty cycle	100%	100%	
Insulation class	F	F	
Electric connection	B Industrial	DIN 43650A	
Protection	IP65	IP65	
Approval		UL/CSA	
Working media	All neutral media such as compressed air		
* Limited to 50°C if us	se with 100% duty cycle		

* Limited to 50°C if use with 100% duty cycle

Solenoid Coils with M12 Connection

Voltage	Part Number	Weight (Kg)
Direct current		
24VDC	P2FC6449	0.065

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavorable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the Maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All connectors/cable plugs EN175301-803 with LED's include this type of circuit protection.

Materials

Pilot Valve	
Body:	Polyamide
Armature tube:	Brass
Plunger & core:	Corrosion resistant Cr-Ni steel
Seals:	Fluorocarbon
Screws:	Stainless steel
Coil	
Encapsulation material:	Thermoplastic as standard Duroplast for M12 connection

Spare Base Solenoid Pilot Operator CNOMO NC

1 Por	\checkmark
	\sim

	Description	Part Number	Weight (Kg)
5	Non-lock Manual Override	P2FP23N4B	0.065
-	No Override	P2FP23N4A	0.065

Note: Solenoid pilot operators are fitted to the Global range. Order the above part numbers for spares. The operators are supplied with mounting screws and interface 'O' rings. Coils and connectors must be ordered separately.

30mm x 30mm

Solenoid Coils with DIN A or Industrial B Connection



	Voltage	22mm x 30mm Part Number B Industrial Standard	Weight (Kg)	Part Number DIN 43650A Standard	Weight (Kg)		
	Direct current						
1	24VDC	P2FCB449	0.093	P2FCA449	0.105		
	Alternative current						
	110V 50Hz, 120V 60Hz	P2FCB453	0.093	P2FCA453	0.105		

Most popular.





C25

Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics
 Filter /
 Regulators
 Coalescers
 Filters
 P3Y Products

 Regulators
 Coalescers
 Filters
 P3Y Products

С

Accessories and Kits P3Y Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

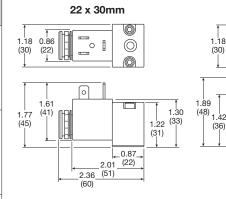
Combinations

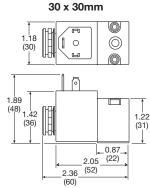
Air Preparation Products **P3Y Series**

Solenoid Connectors / Cable Plugs EN175301-803

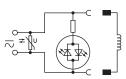
	Description	Part Number 22mm Form B Industrial	Part Number 30mm Form A DIN 43650A
With Standard Screw	Standard IP65 without Flying Lead	PS2429BP	PS2028BP
	With LED and Protection 24VAC/DC	PS243079BP	PS203279BP
	With LED and Protection 110VAC	PS243083BP	PS203283BP
With Cable	Standard with 2m cable IP65	PS2429JBP	PS2028JCP
	24VAC/DC, 2m cable LED and protection IP65	PS2430J79BP	PS2032J79CP
	110VAC/DC, 2m cable LED and protection IP65	PS2430J83BP	PS2032J83CP

Solenoid coil dimensions mm (inches)





Electrical schematics

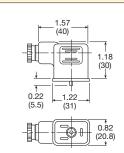


PS243079BP	PS203279BP
PS2430J79BP	PS2032J79CP
PS243083BP	PS203283BP
PS2430J83BP	PS2032J83CP
PS294679BP	PS294683BP
PS2946J79BP	PS2946J83BP

Cable plug dimensions mm (inches)

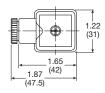
22mm Form B industrial cable plugs

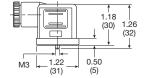




30mm DIN 43650A cable plugs

PS2028BP





Most popular.



C26

Accessories

Description		Connection	Weight Ib (kg)	Part Number		
0.01 micron element kit				P3YKA00ESC		
5 micron element kit				P3YKA00ESE		
Adsorber element kit				P3YKA00ESA		
Angle bracket + metal lock ring				P3YKA00MS		
Bowl kit with combined manual / s	emi-auto drain			P3YKA00BSC		С
Bowl kit with auto drain				P3YKA00BSA		
Bowl kit				P3YKA00BSN		ucts
Connector o-ring kit	Qty: 5			РЗҮКА08СҮ	800	P3Y Products
Differential pressure indicator kit				P3YKA00RQ		
Diaphragm kit (relieving type)				P3YKA00RR		
Diaphragm kit (non-relieving type)				P3YKA00RN		Filters
Key lock (replacement)				P3XKA00AS		Filt
Lubricator oil	F442001 - 1 Qt.		2.03	F442001		scers
	F442002 - 1 Gal		(0.92)	F442002		Coalescers
Neck mounting bracket kit			8.27 (3.75)	P3YKA00MS	07	Regulators
P3Y connecting kit			0.11 (0.05)	РЗҮКА00СВ		Filter / Regulators
Panel mounting nut (Aluminium)			1.54 (0.70)	РЗҮКА00ММ	\bigcirc	
Pressure gauge	0 to 160 psig (0 to 10 bar)	1/4"	0.13 (0.06)	K4520N14160		Lubricators
	0 to 300 psig (0 to 20 bar)		0.13 (0.06)	K4520N14300	and the marking	Lub
Refill plug				P3YKA00PL		S
Wall mounting brackets			0.44 (0.2)	P3YKA00CW		Combinations
						ries ts

Accessories and Kits

Most popular.



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Air Preparation Products Contents - www.parker.com/pneu/frl

7 1

Air Preparation Products 4 Series Products
14F Particulate Filters

14F Particulate Filters	D2-D3
10F Coalescing Filters	D4-D5
14R Regulators	D6-D7
14E Filter / Regulators	D8-D9
04L Lubricators	D10-D11
14A / 14G Combinations	D12-D13





Air Preparation Products **14 Series**

14F Particulate Filters – Miniature

- 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

D

14 Series Products

Filters

Coalescers

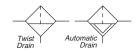
Regulators

Filter / Regulators

Lubricators

Combinations

- Interchangeable twist and automatic pulse drains
- 1/8" & 1/4" ports (NPT, BSPP & BSPT)



Port Size	Description [‡]	Part Number
1/8"	Poly Bowl, Twist Drain	14F01BB
1/8"	Metal Bowl, Twist Drain	14F03BB
1/8"	Poly Bowl, Auto Pulse Drain	14F05BB
1/8"	Metal Bowl, Auto Pulse Drain	14F07BB
1/4"	Poly Bowl, Twist Drain	14F11BB
1/4"	Metal Bowl, Twist Drain	14F13BB
1/4"	Poly Bowl, Auto Pulse Drain	14F15BB
1/4"	Metal Bowl, Auto Pulse Drain	14F17BB

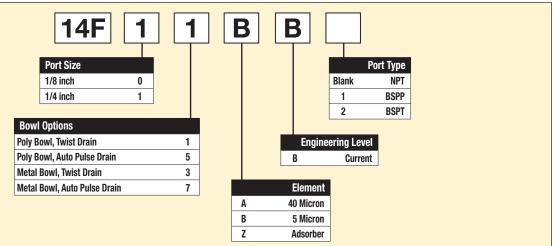
[‡] For polycarbonate bowl, see caution in Engineering Section A.



Operating information

Supply pressure (max): Plastic bowl Metal bowl Auto pulse drain		0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar) 10 to 250 psig (0.7 to 17.2 bar)		
Operating temperature: Plastic bowl Metal bowl Auto pulse drain		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 125°F (52°C) or less		
Flow capacity [†] : High flow	1/8" 1/4"	22 scfm (10.4 dm ³ /s, ANR) 24 scfm (11.3 dm ³ /s, ANR)		
Bowl capacity:		1 oz.		
Auto pulse drain tube barb		1/8 inch		
Weight:		0.41 lb (0.18 kg)		
 [†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop. 				

Ordering Information:



Most popular.



Material Specifications

-	
Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl without sight gauge	Zinc
Deflector, element holder & baffle	Plastic
Twist drain, body & stem	Plastic
Twist drain, seals	Nitrile
Auto pulse drain, piston & seals	Nitrile
Auto pulse drain, stem, seat, adaptor & washers	Aluminum
Element	Plastic
Adsorber (optional)	Activated
	charcoal
Seals	Nitrile

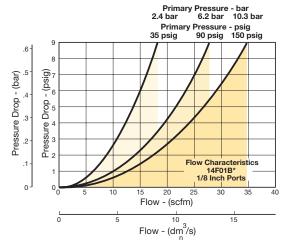
Repair and Service Kits

Poly bowl / auto pulse drain	PS408BP
Poly bowl / twist drain	PS404P
Metal bowl / auto pulse drain	PS451BP
Metal bowl / twist drain	PS447BP
40 Micron element	PS401P
5 Micron element	PS403P
5 Micron cartridge kit	PS407P
Adsorber element	PS452P
Mounting bracket kit	PS417BP

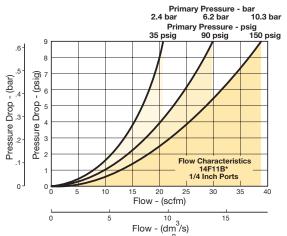
Air Preparation Products **14 Series**

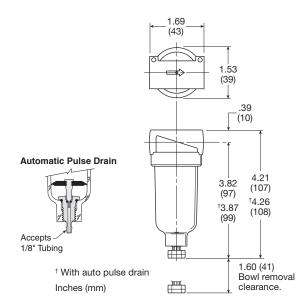
Flow Charts

14F 1/8" Particulate Filter



14F 1/4" Particulate Filter





D

14 Series Products

Filters



10F Coalescing Filters – Miniature

- 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
- 1/8", 1/4" ports (NPT, BSPP, BSPT)

D

Products **14 Series**

Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

Combinations



Port Size	Description [‡]	Part Number
1/8"	Poly Bowl, Twist Drain	10F01ED
1/8"	Metal Bowl, Twist Drain	10F03ED
1/8"	Poly Bowl, Auto Pulse Drain	10F05ED
1/8"	Metal Bowl, Auto Pulse Drain	10F07ED
1/4"	Poly Bowl, Twist Drain	10F11ED
1/4"	Metal Bowl, Twist Drain	10F13ED
1/4"	Poly Bowl, Auto Pulse Drain	10F15ED
1/4"	Metal Bowl, Auto Pulse Drain	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.

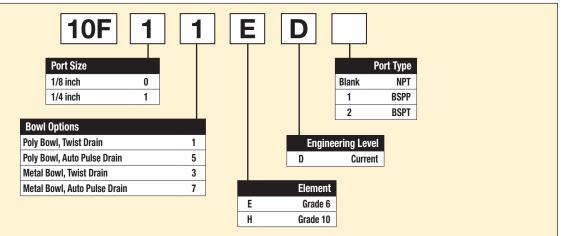
[‡] For polycarbonate bowl, see caution in Engineering Section A.



Operating information

Supply pressure (max): Plastic bowl Metal bowl Auto pulse drain			0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar) 10 to 250 psig (0.7 to 17.2 bar)	
Operating pressure drop: Normal Max recommended (Element should be replaced)			2 psig (0.14 bar) 10 psig (0.7 bar)	
Operating temperature: Plastic bowl Metal bowl Auto pulse drain		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 125°F (52°C) or less		
Flow capacity [†] : Grade 6 (0.01 micron)		1/8" 1/4"		
	Grade 10 (1.0 micron)	1/8" 1/4"	19 scfm (9 dm ³ /s, ANR) 24 scfm (11.3 dm ³ /s, ANR)	
Bowl capacity:		1 oz.		
Auto pulse drain tube barb		1/8 inch		
Weight:		0.41 lb (0.18 kg)		
[†] scfm = Standard cubic feet per minu pressure drop.			0 psig inlet and 5 psig	

Ordering Information:



Most popular.



Material Specifications

-	
Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl without sight gauge	Zinc
Twist drain, body & stem	Plastic
Twist drain, seals	Nitrile
Auto pulse drain, piston & seals	Nitrile
Auto pulse drain, stem, seat, adaptor & washers	Aluminum
Element holder	Plastic
Element	Borosilicate & felt glass fibers
Seals	Nitrile

Repair and Service Kits

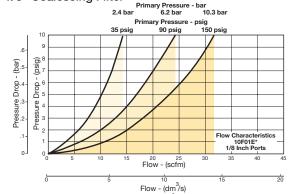
Poly bowl / auto pulse drain kit	PS408BP
Poly bowl / twist drain kit	PS404P
Metal bowl / auto pulse drain kit	PS451BP
Metal bowl / twist drain kit	PS447BP
Grade 6 element (standard)	PS446P
Grade 10 element (optional)	PS456P
Mounting bracket kit	PS417BP

Air Preparation Products 14 Series

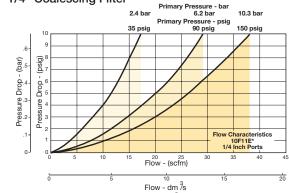
Flow Charts

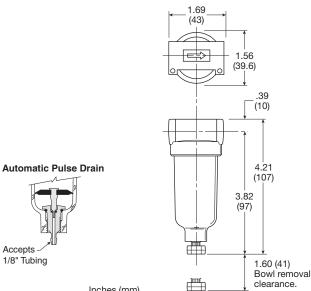
Grade 6 Element

10F 1/8" Coalescing Filter



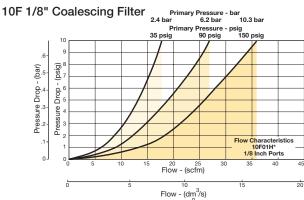
10F 1/4" Coalescing Filter

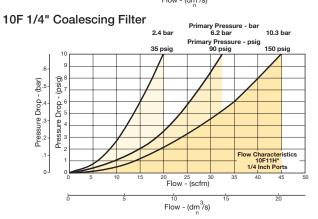




Inches (mm)

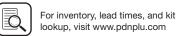
Grade 10 Element





D





Air Preparation Products 14 Series

14R Regulators – Miniature

- Unbalanced poppet standard
- Solid control piston with lip seal for extended life
- Non-rising adjusting knob
- Compact design
- Very easy to service
- 1/8", 1/4" ports (NPT, BSPP, BSPT)



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F7

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

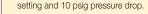
Combinations

D

Port Size	Description	Part Number
1/8"	Without Gauge	14R013FC
1/8"	With Gauge	14R018FC
1/4"	Without Gauge	14R113FC
1/4"	With Gauge	14R118FC

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

Operating information					
Supply pressure	(max):	0 to 300 psig (0 to 20.7 bar)			
Secondary pressure ranges Standard Medium Medium Low		2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 1 to 30 psig (0 to 2.1 bar) 1 to 15 psig (0 to 1 bar)			
Operating temperature: Low temperature		32°F to 125°F (0°C to 52°C) -4°F to 125°F (-20°C to 52°C)			
Flow capacity [†] : High flow 1/8" 1/4"		13 scfm (6.1 dm ³ /s, ANR) 15 scfm (7.1 dm ³ /s, ANR)			
Gauge ports (2):		1/8 or 1/4 inch			
Weight:		0.3 lb (0.14 kg)			
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary softing and 10 psig process in drop.					



Ordering Information:

	14	R	1	13		F								
											_	, <u> </u>		_
ort Siz	ze								Por	t Type		Prese	t / Pressure Limited	
/8 inch	Pipe, 1/8 inch G	auge Port	0						Blank	NPT	•	Blank	None	
/4 inch	Pipe, 1/8 inch G	auge Port	1						1	BSPP		XXX*	Preset Pressure	
/4 inch	Pipe, 1/4 inch G	auge Port	В						2	BSPT	·	XXX*	Pressure Limited	
/8 inch	Pipe, no Gauge	Port	C					Engine	ering Lev	el.			eset / pressure limited	
/lanifolo	d Mounting		M				(_	Curre				90 psig in 5 psig For higher pressures,	
									ounc			contact fact		
	Pressure Rang	ge										(Example: 06	5 = 65 psig)	
	Yellow Knob		Black Knob						Relief					
		Withou	t Gauge			F			elieving				Options	
	30 psig	10	30 psig	BO		G		-	elieving		Blank		No Options	
	60 psig	11	60 psig	B1		H		v Temp. R			L†	Р	reset Non-Adjustable	
	15 psig	12	15 psig	B2]	J	Low Terr	ıp. Non-R	elieving		P†		Preset Adjustable	
	125 psig	13	125 psig	B3							S†	Pressure Lir	niter Max. Adjustable	
		With (Gauge*								T†	Pressure Limiter	Max. Non-Adjustable	
	30 psig	15	30 psig	B5									For other pressures	
	60 psig	16	60 psig	B6							contac	ct factory.		
	15 psig	17	15 psig	B7					Spring T	vne hv	Preset	/ Limited Pressure		
	125 psig	18	125 psig	B8									25 use 30 psi spring	
* Not available with BSPP or BSPT port types.									For	Prese	t / Limit	ed Pressure 26 to	50 use 60 psi spring	

Most popular.

-Parker



(Revised 04-26-18)

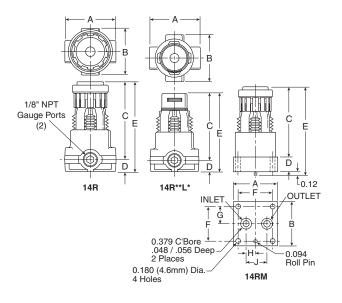
Material Specifications

-	
Adjusting nut	Brass
Adjusting stem & spring	Steel
Body	Zinc
Bonnet, seat, piston & valve poppet	Plastic
Seals	Nitrile

Repair and Service Kits

-	
Bonnet assembly kit	L01369
Bonnet tamperproof kit	P01265
30 psig gauge, 1/8" NPT (0 to 2.1 bar)	K4515N18030
60 psig gauge, 1/8" NPT (0 to 4.1 bar)	K4515N18060
160 psig gauge, 1/8" NPT (0 to 11.0 bar)	K4515N18160
60 psig gauge, 1/4" NPT (0 to 4.1 bar)	K4520N14060
160 psig gauge, 1/4" NPT (0 to 11.0 bar)	K4520N14160
Mounting bracket kit* (includes panel mount nut)	PS417BP
Plastic panel mount nuts*	P78652
Metal panel mount nuts*	P01531
Unbalanced non-relieving, poppet / piston kit	PS428P
Unbalanced relieving, poppet / piston kit	PS426P
1-15 psig spring (yellow)	P01176
1-30 psig spring (black)	P01175
1-60 psig spring (white)	P01174
2-125 psig spring (gold)	P01173

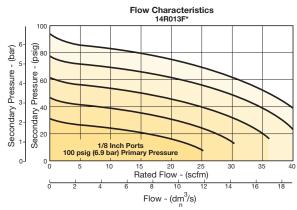
* Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.



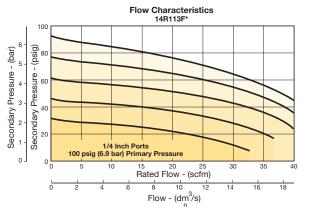
Air Preparation Products **14 Series**

Flow Charts

14R 1/8" Ports



14R 1/4" Ports



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

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

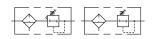


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Air Preparation Products 14 Series

14E Filter / Regulator – Miniature

- 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
- 1/8", 1/4" ports (NPT, BSPP, BSPT)



Port Size	Description [‡]	Part Number
1/8"	Poly Bowl, Twist Drain	14E01B13FC
1/8"	Metal Bowl, Twist Drain	14E03B13FC
1/8"	Poly Bowl, Auto Pulse Drain	14E05B13FC
1/8"	Metal Bowl, Auto Pulse Drain	14E07B13FC
1/4"	Poly Bowl, Twist Drain	14E11B13FC
1/4"	Metal Bowl, Twist Drain	14E13B13FC
1/4"	Poly Bowl, Auto Pulse Drain	14E15B13FC
1/4"	Metal Bowl, Auto Pulse Drain	14E17B13FC

[‡] For polycarbonate bowl, see caution in Engineering Section A. NOTE: 1.218 Dia. (31 mm) hole required for panel mounting.



Operating information

Supply pressure (Plastic bowl Metal bowl	max):	0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar)			
Secondary press	ure ranges				
Standard		2 to 125 psig (0 to 8.6 bar)			
Medium Medium		1 to 30 psig (0 to 2.1 bar)			
Low		1 to 60 psig (0 to 4.1 bar) 1 to 15 psig (0 to 1 bar)			
		1 to 15 psig (0 to 1 bal)			
Operating temper	rature:	20°E to 105°E (0°C to 50°C)			
Plastic bowl Metal bowl		32°F to 125°F (0°C to 52°C)			
		32°F to 175°F (0°C to 80°C)			
Flow capacity [†] :					
High flow	1/8"	16 scfm (7.6 dm ³ /s, ANR)			
	1/4"	18 scfm (8.5 dm ³ /s, ANR)			
Bowl capacity:		1 oz.			
Auto pulse drain tube barb		1/8 inch			
Gauge ports (2):		1/8 inch			
J. ()		(can be used as additional full flow)			
Weight:		0.4 lb (0.18 kg)			
t oofm - Standard	oubic fact par	minute at 100 paig inlat and 10 paig			

t scfm = Standard cubic feet per minute at 100 psig inlet and 10 psig pressure drop.

Ordering Information:

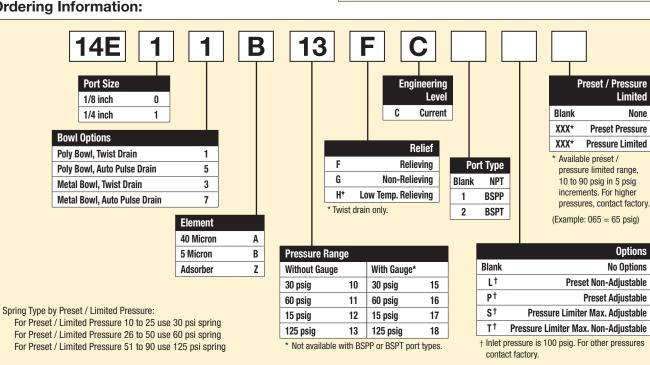
D

Products **14 Series**

Filters

Coalescers

Regulators







(Revised 04-26-18)

Material Specifications

Adjusting nut	Brass
Adjusting stem & spring	Steel
Body	Zinc
Bonnet, knob, seat, piston, holder & deflector	Plastic
Transparent bowl	Polycarbonate
Metal bowl (without sight gauge)	Zinc
Twist drain, body & stem	Plastic
Twist drain, seals	Nitrile
Auto pulse drain, piston & seals	Nitrile
Auto pulse drain, stem, seat, adaptor & washers	Aluminum
5 Micron elements (standard)	Plastic
40 Micron elements (optional)	Plastic
Adsorber elements (optional)	Activated charcoal
Seals	Nitrile

Repair and Service Kits

Bonnet tamperproof kit	P01265
Poly bowl / auto drain	PS408BP
Poly bowl / twist drain	PS404P
Metal bowl / auto drain	PS451BP
Metal bowl / twist drain	PS447BP
40 micron element	PS401P
5 micron element	PS403P
Adsorber element	PS452P
30 psig (0 to 2.1 bar), gauge	K4515N18030
60 psig (0 to 4.1 bar), gauge	K4515N18060
160 psig (0 to 11.0 bar), gauge	K4515N18160
Mounting bracket kit* (includes panel mount nut)	PS417BP
Panel mount nut*	P78652
Unbalanced, non-relieving	PS428P
Unbalanced, relieving	PS426P
1- 15 psig spring (yellow)	P01176
1- 30 psig spring (black)	P01175
1- 60 psig spring (white)	P01174
2- 125 psig spring (gold)	P01173

*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.

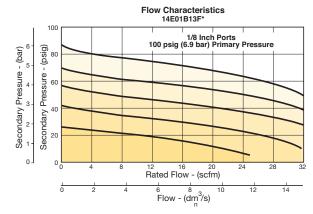
CAUTION:

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.

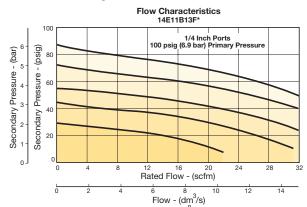
Air Preparation Products **14 Series**

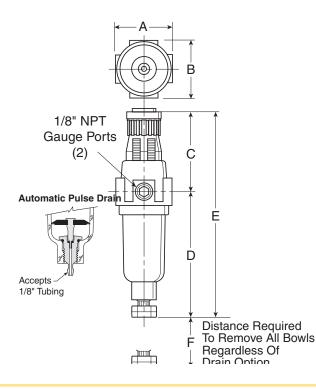
Flow Charts

14E 1/8" Filter / Regulator



14E 1/4" Filter / Regulator













For inventory, lead times, and kit lookup, visit www.pdnplu.com

D9

Parker Hannifin Corporation Pneumatic Division Bichland, Michigan

Richland, Michigan www.parker.com/pneumatics

Air Preparation Products 14 Series

04L Mist Lubricators - Miniature

- 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
- Integral 1/8", 1/4" ports (NPT, BSPP, BSPT)



Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

Combinations

D

Port Size	Description [‡]	Part Number
1/8"	Poly Bowl, No Drain	04L00GB
1/8"	Metal Bowl, No Sight Gauge, Twist Drain	04L03GB
1/4"	Poly Bowl, No Drain	04L10GB
1/4"	Metal Bowl, No Sight Gauge, Twist Drain	04L13GB

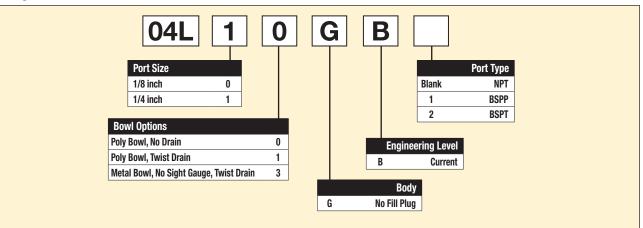
[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.



Operating information

Supply pressure (max): Plastic bowl Metal bowl	0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar)		
Operating temperature: Plastic bowl Metal bowl	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)		
Flow capacity [†] : High flow 1/8" 1/4"	20 scfm (9.4 dm ³ /s, ANR) 20 scfm (9.4 dm ³ /s, ANR)		
Minimum flow	0.5 scfm (0.24 dm ³ /s, ANR) at 100 psig (6.9 bar)		
Bowl capacity:	1 oz.		
Weight:	0.4 lb (0.18 kg)		
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.			

Ordering Information:



Petroleum based oil of 100 to 200 SUS 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.)

C

Most popular.



Catalog 0700P-8 **Miniature Mist Lubricators**

Material Specifications

-	
Body	Zinc
Transparent bowls	Polycarbonate
Metal bowl (without sight gauge)	Zinc
Drains, twist – body & nut	Plastic
Seals	Nitrile
Sight dome	Polycarbonate

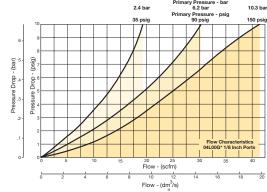
Repair and Service Kits

Poly bowl / no drain kit	PS421P
Poly bowl / twist drain kit	PS420P
Metal bowl / twist drain (no sight gauge) kit	PS447BP
Mounting bracket kit	PS419
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

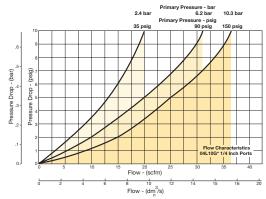
Air Preparation Products **14 Series**

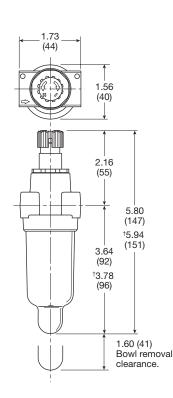
Flow Charts

04L 1/8" Lubricator



04L 1/4" Lubricator





Inches (mm)



Filters

D

14 Series Products

Filter / Regulators



14A / 14G Close Nippled Combinations – Miniature

Close Nippled Combinations – 14 Miniature Series

- Regulator can be mounted with knob in up or down position
- 5 micron filter element standard, 40 micron optional
- Manual twist drain
- Relieving regulator

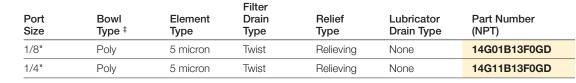






14 Series Products

Filters

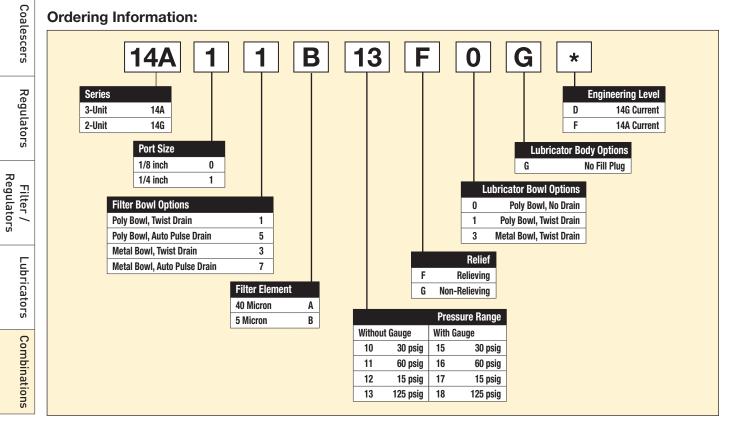




1/8"	Poly	5 micron	Twist	Relieving	None	14A01B13F0GF
1/4"	Poly	5 micron	Twist	Relieving	None	14A11B13F0GF

14A

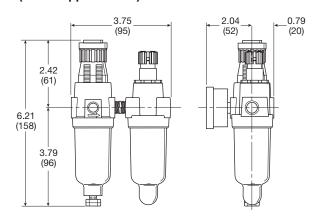
[‡] For polycarbonate bowl, see caution in Engineering Section A.



Most popular.



14G (Close nippled 2-unit)



Inches (mm)

Service kits

Mounting bracket, 04L

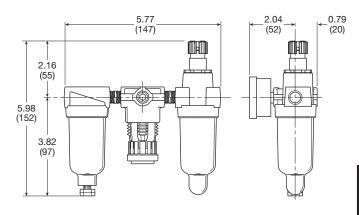
Mounting bracket, 14E, 14F, 14R

14A (Close nippled 3-unit)

14 Series

(Revised 05-30-19)

Air Preparation Products



D

Filters

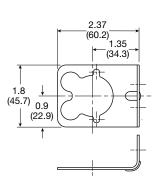
Coalescers

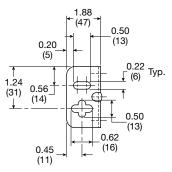
Regulators

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.





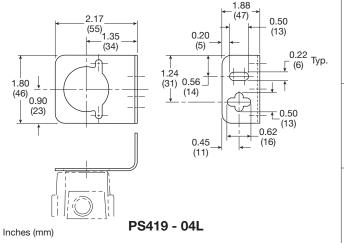
PS417BP

PS419

Inches (mm)

PS417BP - 10F, 14F, 14R, 14E (Includes panel mount nut)

C



Combinations



For inventory, lead times, and kit lookup, visit www.pdnplu.com

D13





(Revised 12-2-20)

Air Preparation Products Contents - www.parker.com/pneu/frl

Air Preparation Products Prep-Air[®] II Products

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07F Standard	E7-E8

Coalescing Filters

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12F Standard	E13-E14

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07R Standard	E19-E20

Pilot Controlled Regulators

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12R Standard	E23-E24

Filter / Regulators

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16L Compact, Micro-Mist	E37-E38
17L Standard, Micro-Mist	E39-E40
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06 Compact & 07 Standard, Close Nippled	E45-E46
06 Compact & 07 Standard, Modular	E47-E48
Accessories	E49-E50

Accessories

Mounting Bracket Kits	E51
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F



05F Particulate Filters – Economy

- Excellent water removal efficiency
- Unique deflector plate and shroud creates a swirling of the air stream ensuring maximum water and dirt separation
- Large filter element surface guarantees low pressure drop and increased element life
- 40 micron filter element standard
- · Shown with recommended metal bowl guard
- 1/4" & 3/8" ports (NPT)

Prep-Air ® II Products

Ε

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Accessories



Operating information

Supply pressure (max): Plastic bowl Auto pulse drain		0 to 150 psig (0 to 10.3 bar) 10 to 150 psig (0.7 to 10.3 bar)
Operating temperature: Plastic bowl		32°F to 125°F (0°C to 52°C)
Flow capacity [†] : High flow	1/4" 3/8"	54 scfm (25.5 dm ³ /s, ANR) 70 scfm (33 dm ³ /s, ANR)
Bowl capacity:		2.0 oz.
Sump capacity:		0.9 oz.
Weight:		1.2 lb (0.54 kg)
[†] scfm = Standard cubic fe pressure drop.	et per mir	ute at 90 psig inlet and 5 psig

Ordering Information:

Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	05F12AA
3/8"	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	05F22AA

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.







(Revised 06-14-17)

Air Preparation Products Prep-Air® II Series

Material Specifications

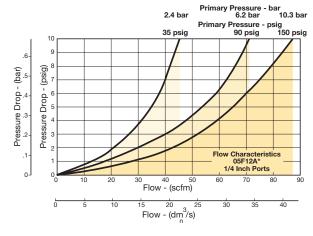
Body	Zinc
Transparent bowl	Polycarbonate
Bowl guards	Steel
Collar	Plastic
Deflector, shroud & baffle	Plastic
Drain	Plastic
Element	Plastic
Adsorber (optional)	Activated charcoal
Seals	Nitrile
Sight gauge	Polyamide (nylon)

Repair and Service Kits

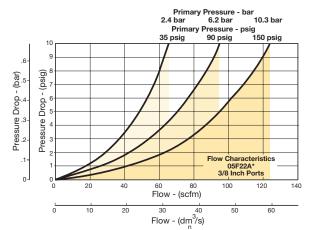
Bowl guard kit	PS905P
Poly bowl / auto pulse drain	PS995P
Poly bowl / twist drain	PS932P
Auto pulse drain	PS998P
Twist drain	PS512P
40 micron element	PS901P
Adsorber	PS931P
Mounting bracket kit	PS943P
Sight gauge kit	PS914P

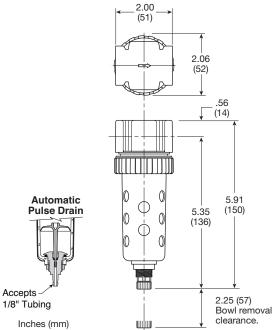
Flow Charts

05F 1/4" Particulate Filter



05F 3/8" Particulate Filter







Accessories



C

06F Particulate Filters – Compact

- 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
- 1/4", 3/8", 1/2" ports NPT

Prep-Air ® II Products

Ε

Filters

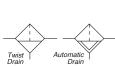
Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations Accessories





Operating information

Supply pressure (max): Without DPI Plastic bowl Metal bowl		0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar)
With DPI Auto float drain		0 to 150 psig (0 to 10.3 bar) 15 to 250 psig (1.0 to 17.2 bar)
Operating temperature: Plastic bowl Metal bowl With DPl		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 32°F to 125°F (0°C to 52°C)
Flow capacity [†] : High flow	1/4" 3/8" 1/2"	53 scfm (25 dm ³ /s, ANR) 80 scfm (37.8 dm ³ /s, ANR) 85 scfm (40.1 dm ³ /s, ANR)
Bowl capacity:		4.4 oz.
Sump capacity:		1.75 oz.
Weight:		1.4 lb (0.6 kg)
[†] scfm = Standard cubic fe drop.	et per min	ute at 90 psig inlet and 5 psig pressure
DPI = Differential pressure in	ndicator	

Ordering Information:

Port		
Size	Description ‡	Part Number
1/4"	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	06F12AC
1/4"	Poly Bowl, Metal Bowl Guard, Twist Drain, 5 Micron	06F12BC
1/4"	Metal Bowl, Twist Drain, 40 Micron	06F13AC
1/4"	Metal Bowl, Sight Gauge, Twist Drain, 40 Micron	06F14AC
1/4"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 40 Micron	06F16AC
1/4"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 5 Micron	06F16BC
1/4"	Metal Bowl, Auto Float Drain, 40 Micron	06F17AC
1/4"	Metal Bowl, Auto Float Drain, 5 Micron	06F17BC
1/4"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 Micron	06F18AC
1/4"	Metal Bowl, Sight Gauge, Auto Float Drain, 5 Micron	06F18BC
3/8"	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	06F22AC
3/8"	Poly Bowl, Metal Bowl Guard, Twist Drain, 5 Micron	06F22BC
		Continued on payt page

Continued on next page

Parker



Ordering Information cont.:

Port		
Size	Description [‡]	Part Number
3/8"	Metal Bowl, Sight Gauge, Twist Drain, 5 Micron	06F24BC
3/8"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 40 Micron	06F26AC
3/8"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 5 Micron	06F26BC
3/8"	Metal Bowl, Auto Float Drain, 5 Micron	06F27BC
3/8"	Metal Bowl, Sight Gauge, Auto Float Drain, 5 Micron	06F28BC
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	06F32AC
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain, 5 Micron	06F32BC
1/2"	Metal Bowl, Twist Drain, 40 Micron	06F33AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 40 Micron	06F34AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 5 Micron	06F34BC
1/2"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 40 Micron	06F36AC
1/2"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 5 Micron	06F36BC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 Micron	06F38AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 5 Micron	06F38BC
G3/8	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	06F22AC1
G1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain, 5 Micron	06F32BC1
G1/2"	Metal Bowl, Sight Gauge, Twist Drain, 5 Micron	06F34BC1

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.

Regulators

Most popular.



Material Specifications

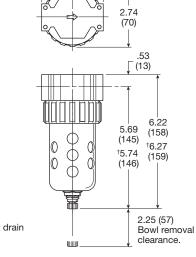
Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl with or without sight gauge	Zinc
Bowl Guards	Steel
Collar	Plastic
Deflector, shroud & baffle	Plastic
Twist drain - body & nut	Plastic
Auto float drain - housing, float	Plastic
Auto float drain - seals	Nitrile
Auto float drain - springs, push rod	Stainless steel
Element	Plastic
Adsorber (optional)	Activated
	charcoal
Seals	Nitrile
Sight gauge	Polyamide

Repair and Service Kits

Bowl guard kit	PS705P
Poly bowl / auto float drain kit	PS722P
Poly bowl / twist drain kit	PS732P
Metal bowl / auto float drain kit	PS726P
Metal bowl / twist drain kit	PS734P
Metal bowl / sight gauge / auto float drain kit	PS723P
Metal bowl / sight gauge / twist drain kit	PS735P
Auto float drain kit	PS506P
Twist drain kit	PS512P
40 micron element	PS701P
5 micron element	PS702P
Adsorber element	PS731P
Mounting bracket kit	PS743P
Sight gauge kit	PS914P

2.81

(71)

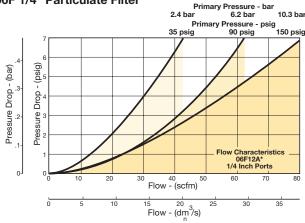


[†] With auto float drain Inches (mm)

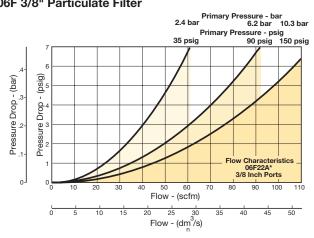


Flow Charts

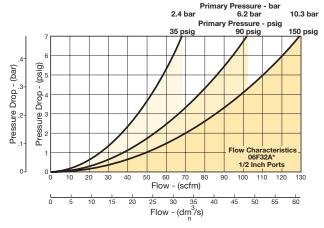
06F 1/4" Particulate Filter



06F 3/8" Particulate Filter



06F 1/2" Particulate Filter



Lubricators Combinations Accessories



E6

Regulators Regulators Filter /

Air Preparation Products **Prep-Air**[®] **II Series**

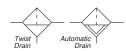
07F Particulate Filters – Standard

- 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
- 1/2", 3/4" ports NPT

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Operating information				
Supply pressure (max): Without DPI Plastic bowl Metal bowl		0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar)		
With DPI Auto float drain		0 to 150 psig (0 to 10.3 bar) 15 to 250 psig (1.0 to 17.2 bar)		
Operating temperature: Plastic bowl Metal bowl With DPl		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 32°F to 125°F (0°C to 52°C)		
Flow capacity [†] : High flow	1/2" 3/4"	130 scfm (61.4 dm ³ /s, ANR) 145 scfm (68.4 dm ³ /s, ANR)		
Bowl capacity:		7.2 oz.		
Sump capacity:		2.8 oz.		
Weight:		2.2 lb (1.0 kg)		
 * scfm = Standard cubic fe 5 psig pressure drop. 	[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.			
DPI = Differential pressure	indicator			



Ordering Information:

Port Size	Description [‡]	Part Number
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	07F32AC
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain, 5 Micron	07F32BC
1/2"	Metal Bowl, Twist Drain, 40 Micron	07F33AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 40 Micron	07F34AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 5 Micron	07F34BC
1/2"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 40 Micron	07F36AC
1/2"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 5 Micron	07F36BC
1/2"	Metal Bowl, Auto Float Drain, 40 Micron	07F37AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 Micron	07F38AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 5 Micron	07F38BC
3/4"	Poly Bowl, Metal Bowl Guard, Twist Drain, 40 Micron	07F42AC
3/4"	Poly Bowl, Metal Bowl Guard, Twist Drain, 5 Micron	07F42BC
3/4"	Metal Bowl, Sight Gauge, Twist Drain, 40 Micron	07F44AC
3/4"	Metal Bowl, Sight Gauge, Twist Drain, 5 Micron	07F44BC
3/4"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 40 Micron	07F46AC
3/4"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, 5 Micron	07F46BC
3/4"	Metal Bowl, Auto Float Drain, 40 Micron	07F47AC
3/4"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 Micron	07F48AC

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.

Most popular.

-Parker

For inventory, lead times, and kit lookup, visit www.pdnplu.com

E7

Prep-Air [®] II Products

Ε

Filters

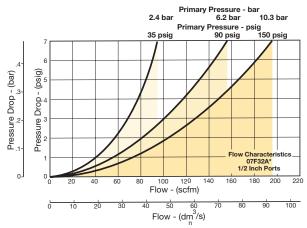
Material Specifications

Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl with or without sight gauge	Zinc
Bowl guards	Steel
Collar	Plastic or metal
Deflector, shroud & baffle	Plastic
Twist drain, body & nut	Plastic
Auto float drain – housing, float	Plastic
Auto float drain – seals	Nitrile
Auto float drain – springs, push rod	Stainless steel
Element	Plastic
Adsorber element (optional)	Activated
	charcoal
Seals	Nitrile
Sight gauge	Polyamide

Air Preparation Products **Prep-Air**[®] **II Series**

Flow Charts

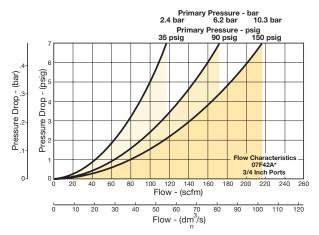
07F 1/2" Particulate Filter

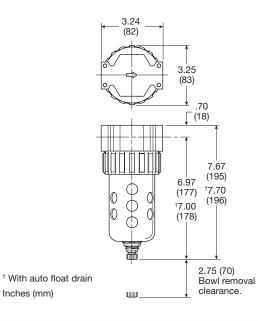


07F 3/4" Particulate Filter

Repair and Service Kits

Bowl guard kit	PS805P
Poly bowl / auto float drain kit	PS822P
Poly bowl / twist drain kit	PS832P
Metal bowl / auto float drain kit	PS826P
Metal bowl / twist drain kit	PS834P
Metal bowl / sight gauge / auto drain kit	PS823P
Metal bowl / sight gauge / twist drain kit	PS835P
Auto float drain kit	PS506P
Twist drain kit	PS512P
40 micron element	PS801P
5 micron element	PS802P
Adsorber element	PS831P
Mounting bracket kit	PS843P
Sight gauge kit	PS914P







C

Coalescers

15F Coalescing Filters – Economy

- 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.
- Differential pressure indicator standard.
- 1/4" & 3/8" ports (NPT)



Operating information		
Supply pressure (max): Plastic bowl Without DPl With DPl Auto pulse drain	0 to 150 psig (0 to 10.3 bar) 0 to 150 psig (0 to 10.3 bar) 10 to 150 psig (0.7 to 10.3 bar)	
Operating temperature: Plastic bowl With DPI	32°F to 125°F (0°C to 52°C) 32°F to 125°F (0°C to 52°C)	
Flow capacity [†] : Grade 6	1/8" 30 scfm (14.2 dm ³ /s, ANR) 1/4" 30 scfm (14.2 dm ³ /s, ANR)	
Bowl capacity:	2.0 oz.	
Sump capacity:	0.9 oz.	
Weight:	1.2 lb (0.54 kg)	
 t scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop. DPI = Differential pressure indicator 		

Ordering Information:

Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Bowl Guard, Twist Drain, Grade 6 (0.01)	15F12EA
3/8"	Poly Bowl, Metal Bowl Guard, Twist Drain, Grade 6 (0.01)	15F22EA

[‡] For polycarbonate bowl, see caution in Engineering Section A.

C



Most popular.



Material Specifications

Zinc
Polycarbonate
Steel
Plastic
Plastic
Borosilicate & felt glass fibers
Nitrile
Polyamide (nylon)

Repair and Service Kits

Bowl Guard Kit	PS905P
Poly bowl / automatic pulse drain kit	PS995P
Poly bowl / twist drain kit	PS932P
DPI replacement kit	PS781P
Electronic DPI replacement kit	PS764
Automatic pulse drain kit	PS998P
Twist drain kit	PS512P
Electrical connector: 15mm, 3-pin DIN, 6 ft. cord	PS2932JBP
Filter element kits – Grade 6 (standard)	PS924P
Mounting bracket kit	PS943P
Sight gauge kit	PS914P

2.00 (51)

1.86 (47)

Electronic DPI

Automatic Pulse Drain

2.06

(52)

1.50

(38)

5.35 (136)

0

0 φ 0

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φ 0

ЩШ

0

6.85 (174)

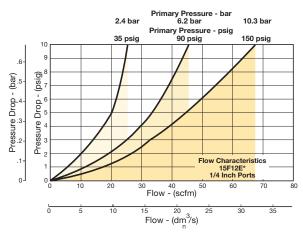
1.77 (45) Bowl removal clearance.

Air Preparation Products Prep-Air[®] II Series

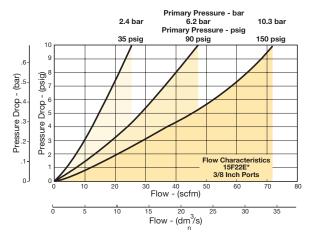
Flow Charts

Grade 6 Element

15F 1/4" Coalescing Filter



15F 3/8" Coalescing Filter





Prep-Air [®] II Products

Ε

Filters

Coalescers

Regulators Filter /

Accepts -/ 1/8" Tubing

Inches (mm)

Accessories



4.50

(114)

Electronic DPI

Air Preparation Products **Prep-Air**[®] **II Series**

11F Coalescing Filters – Compact

- 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.
- 1/4", 3/8", 1/2" ports (NPT)



Operating information

Supply pressure Without DPI	(max):		
Plastic bowl		0 to 150 psig (0 to 10.3 bar)	
Metal bowl		0 to 250 psig (0 to 17.2 bar)	
With DPI		0 to 1	50 psig (0 to 10.3 bar)
Auto float dr	ain	15 to	250 psig (1.0 to 17.2 bar)
Operating pressure drop: Normal Max recommended (Element should be replaced)		2 psig (0.14 bar) 10 psig (0.7 bar)	
	mmended flow:		
Operating temper Plastic bowl Metal bowl With DPl	rature:	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 32°F to 125°F (0°C to 52°C)	
Flow capacity [†] :	Grade 6 (0.01 micron)	3/8"	45 scfm (21 dm ³ /s, ANR) 48 scfm (23 dm ³ /s, ANR) 65 scfm (31 dm ³ /s, ANR)
	Grade 10 (1.0 micron)	3/8"	60 scfm (28.3 dm ³ /s, ANR) 72 scfm (34 dm ³ /s, ANR) 95 scfm (45 dm ³ /s, ANR)
Bowl capacity:		4.4 oz.	
Sump capacity:		1.75 oz.	
Weight:		1.5 lb (0.7 kg)	
[†] scfm = Standard c DPI = Differential pr		at 90 ps	sig inlet and 5 psig pressure drop.



Ordering Information:

Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Bowl Guard, Twist Drain, Grade 6 (0.01)	11F12EC
1/4"	Metal Bowl, Twist Drain, Grade 6 (0.01), W/Out Dpi	11F13ECN
1/4"	Metal Bowl, Twist Drain, Grade 10 (1.0), W/Out Dpi	11F13HCN
1/4"	Metal Bowl, Sight Gauge, Twist Drain, Grade 6 (0.01)	11F14EC
1/4"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, Grade 6 (0.01)	11F16EC
1/4"	Metal Bowl, Sight Gauge, Auto Float Drain, Grade 6 (0.01)	11F18EC
3/8"	Poly Bowl, Metal Bowl Guard, Twist Drain, Grade 6 (0.01)	11F22EC
3/8"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, Grade 6 (0.01)	11F26EC
3/8"	Metal Bowl, Auto Float Drain, Grade 6 (0.01)	11F27EC
3/8"	Metal Bowl, Sight Gauge, Auto Float Drain, Grade 6 (0.01)	11F28EC
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain, Grade 6 (0.01)	11F32EC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, Grade 6 (0.01)	11F34EC
1/2"	Poly Bowl, Metal Bowl Guard, Auto Float Drain, Grade 6 (0.01)	11F36EC
1/2"	Metal Bowl, Auto Float Drain, Grade 6 (0.01)	11F37EC

[‡] For polycarbonate bowl, see caution in Engineering Section A.

Ε

Regulators

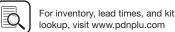
Lubricators

Combinations

Accessories



Most popular.



E11

Pressure Drop - (bar)

0-

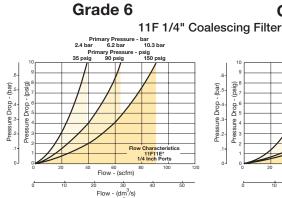
(psig)

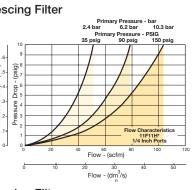
Pressure Drop -

Flow Charts

Material Specifications

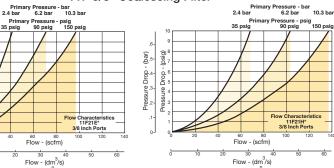
Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl	Zinc
Bowl guard	Steel
Collar	Plastic
Twist drain, body & nut	Plastic
Automatic float drain, housing, float	Plastic
Automatic float drain, seals	Nitrile
Automatic float drain, springs,	
push rod	Stainless steel
Element	Borosilicate &
	felt glass fibers
Seals	Nitrile
Sight gauge	Polyamide



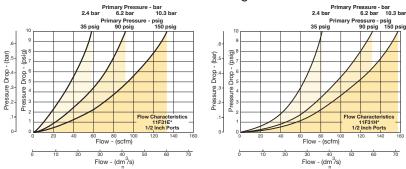


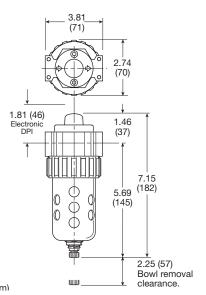
Grade 10

11F 3/8" Coalescing Filter



11F 1/2" Coalescing Filter





Inches (mm)

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

Repair and Service Kits	
Bowl guard kit	PS705P
Poly bowl / automatic float drain kit	PS722P
Poly bowl / twist drain kit	PS732P
Metal bowl / automatic float drain kit	PS726P
Metal bowl / twist drain kit	PS734P
Metal bowl / sight gauge / automatic float drain kit	PS723P
Metal bowl / sight gauge / twist drain kit	PS735P
DPI replacement kit	PS781P
Automatic float drain kit	PS506P
Twist drain kit	PS512P
Electrical connector: 15mm,	DC2022

Twist drain kit	PS512P
Electrical connector: 15mm, 3-pin DIN, 6 ft. cord	PS2932JBP
Grade 6 element (standard)	PS724P
Grade 10 element (optional)	PS730P
Mounting bracket kit	PS743P
Sight gauge kit	PS914P



E12

Air Preparation Products Prep-Air[®] II Series

Ordering Information:

Description ‡

Grade 6 (0.01)

Grade 10 (1.0)

Grade 6 (0.01)

Grade 6 (0.01)

Grade 10 (1.0)

Grade 6 (0.01)

Grade 10 (1.0)

Grade 6 (0.01)

Drain, Grade 6 (0.01) Metal Bowl, Auto Float Drain,

Grade 6 (0.01), W/Out Dpi

Grade 10 (1.0), W/Out Dpi

Grade 6 (0.01), W/Out Dpi

Drain, Grade 6 (0.01)

Poly Bowl, Metal Bowl Guard, Twist Drain,

Poly Bowl, Metal Bowl Guard, Twist Drain,

Poly Bowl, Metal Bowl Guard, Twist Drain,

Metal Bowl, Sight Gauge, Twist Drain,

Metal Bowl, Sight Gauge, Twist Drain,

Poly Bowl, Metal Bowl Guard, Auto Float

Poly Bowl, Metal Bowl Guard, Auto Float

Metal Bowl, Sight Gauge, Auto Float Drain,

Metal Bowl, Sight Gauge, Auto Float Drain,

Poly Bowl, Metal Bowl Guard, Twist Drain,

Poly Bowl, Metal Bowl Guard, Auto Float

Metal Bowl, Sight Gauge, Auto Float Drain,

[‡] For polycarbonate bowl, see caution in Engineering Section A.

Drain, Grade 6 (0.01), W/Out Dpi

Port

Size

1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

1/2"

3/4"

3/4"

3/4"

3/4"

12F Coalescing Filters – Standard

- · 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
- 1/2", 3/4" ports (NPT)



Operating information Supply pressure (max): Without DPI Plastic bowl 0 to 150 psig (0 to 10.3 bar) Metal bowl 0 to 250 psig (0 to 17.2 bar) With DPI 0 to 150 psig (0 to 10.3 bar) Auto float drain 15 to 250 psig (1.0 to 17.2 bar) Operating pressure drop: Normal 2 psig (0.14 bar) Max recommended 10 psig (0.7 bar) (Element should be replaced) Minimum recommended flow: 20% nominal rating of element Operating temperature: Plastic bowl 32°F to 125°F (0°C to 52°C) Metal bowl 32°F to 175°F (0°C to 80°C) 32°F to 125°F (0°C to 52°C) With DPI Flow capacity[†]: 1/2" 75 scfm (35.4 dm³/s, ANR) Grade 6 3/4" 80 scfm (37.7 dm³/s, ANR) 1/2" 125 scfm (59 dm³/s, ANR) Grade 10 3/4" 160 scfm (75.5 dm3/s, ANR) Bowl capacity: 7.2 oz. Sump capacity: 2.8 oz. Weight: 2.4 lb (1.1 kg) [†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop. DPI = Differential pressure indicator



Prep-Air[®] II Products

Filter / Lubricators



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

Poly Bowl, Metal Bowl Guard, Twist Drain, 12F32HCN 12F34EC

Part Number

12F32EC

12F32ECN

12F32HC

12F34ECN

12F36EC

12F36ECN

12F38EC

12F38HC

12F42EC

12F46EC

12F47HC

12F48EC

Regulators

Regulators

(Revised 11-6-20)

Material Specifications

Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl with or without sight gauge	Zinc
Bowl guard	Steel
Collar	Plastic or metal
Twist drain, body & nut	Plastic
Automatic float drain, housing, float	Plastic
Automatic float drain, seals	Nitrile
Automatic float drain, springs, push rod	Stainless steel
Element	Borosilicate &
	felt glass fibers
Seals	Nitrile
Sight gauge	Polyamide

Repair and Service Kits

Prep-Air ® II Products

E

Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

Combinations

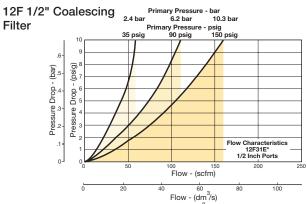
Accessories

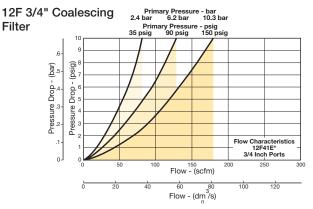
Bowl guard kit	PS805P
Poly bowl / automatic float drain kit	PS822P
Poly bowl / twist drain kit	PS832P
Metal bowl / automatic float drain kit	PS826P
Metal bowl / twist drain kit	PS834P
Metal bowl / sight gauge / automatic float drain kit	PS823P
Metal bowl / sight gauge / twist drain kit	PS835P
DPI replacement kit	PS781P
Automatic float drain kit	PS506P
Twist drain kit	PS512P
Electrical connector: 15mm, 3-pin DIN, 6 ft. cord	PS2932JBP
Grade 6 element (standard)	PS824P
Grade 10 element (optional)	PS830P
Mounting bracket kit	PS843P
Sight gauge kit	PS914P

Air Preparation Products Prep-Air® II Series

Flow Charts

Grade 6 Element

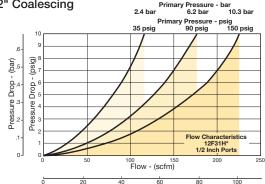


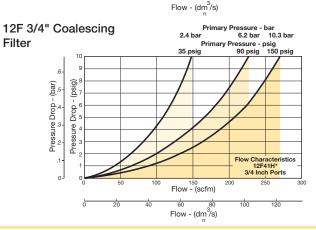


Grade 10 Element

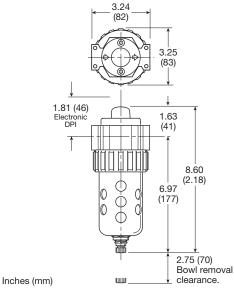
12F 1/2" Coalescing

Filter





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



C



E14

Air Preparation Products **Prep-Air**[®] **II Series**

05R Regulators – Economy

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Rolling diaphragm for extended life
- Removable non-rising knob for panel mounting and tamper resistance
- · Easily serviced
- Reverse flow
- 1/4", 3/8" ports (NPT)





Operating information

Supply pressure (max): 0 For secondary pressure ranges se			0 to 300 psig (0 to 20.7 bar) s see charts next page.
	Operating temper Low temperatu		32°F to 175°F (0°C to 80°C) -4°F to 125°F (-20°C to 52°C)
	Flow capacity [†] : High flow	1/4" 3/8"	30 scfm (14.2 dm ³ /s, ANR) 40 scfm (18.9 dm ³ /s, ANR)
	Gauge ports (2):		1/4 inch
	Weight:		1.1 lb (0.49 kg)
	[†] scfm = Standard cu setting and 10 psig		at 100 psig inlet, 90 psig no flow secondary

Ordering Information:

Port Size	Description	Part Number
1/4"	2-125 psi w/out Gauge, Relieving	05R113AD
1/4"	2-200 psi w/out Gauge, Relieving	05R114AD
3/8"	2-125 psi w/out Gauge, Relieving	05R213AD
3/8"	2-200 psi w/out Gauge, Relieving	05R214AD

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

Most popular.



Catalog 0700P-8 Economy Regulators

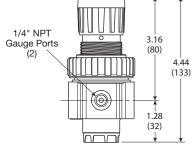
Material Specifications

Adjusting stem	Brass
Bonnet	Plastic
Body	Zinc
Collar, Knob	Plastic
Diaphragm	Nitrile
Poppet & cap	Plastic
Seals	Nitrile
Springs – poppet & control	Steel

Repair and Service Kits

Bonnet assembly kit	PS915P
Control knob	P04420
1-1/2" dial face 30 psig (0 to 2.1 bar), gauge	K4515N14030
1-1/2" dial face 60 psig (0 to 4.1 bar), gauge	K4515N14060
1-1/2" dial face 160 psig (0 to 11.0 bar), gauge	K4515N14160
1-1/2" dial face 300 psig (0 to 20.7 bar), gauge	K4515N14300
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
Mounting bracket kit	PS963P
Panel mount nut – metal	PS964P
1-30 psig spring	P04427
1-60 psig spring	P04426
2-125 psig spring	P04425
2-200 psig spring	P02934
Relieving service kit	PS908P

2.00 (51) 2.06 (52)

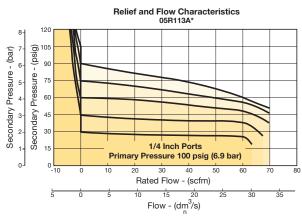


Inches (mm)

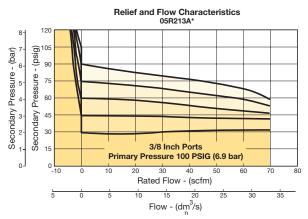
Air Preparation Products **Prep-Air**[®] **II Series**

Flow Charts

05R 1/4" Regulator



05R 3/8" Regulator



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.

Prep-Air ® II Products

Ε

Filters

Coalescers

Regulators

Filter / Regulators



C

Air Preparation Products **Prep-Air**[®] **II Series**

06R Regulators – Compact

- 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
- 1/4", 3/8", 1/2" ports (NPT)





Operating information

Supply pressure (max):		250 psig (17.2 bar)	
Secondary pressure ranges: Standard Low High		2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 5 to 250 psig (0.4 to 17.2 bar)	
Operating temperature: Low temperature		32°F to 175°F (0°C to 80°C) -4°F to 125°F (-20°C to 52°C)	
Flow capacity [†] : High flow	1/4" 3/8" 1/2"	53 scfm (25 dm ³ /s, ANR) 60 scfm (28.3 dm ³ /s, ANR) 75 scfm (35.4 dm ³ /s, ANR)	
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4 inch outlet ports)	
Weight:		1.6 lb (0.7 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.			

Ordering Information:

Port Size	Description	Part Number
1/4"	2-125 psi w/out Gauge, Relieving	06R113AC
1/4"	2-125 psi with Gauge, Relieving	06R118AC
3/8"	2-125 psi w/out Gauge, Relieving	06R213AC
3/8"	2-125 psi with Gauge, Relieving	06R218AC
1/2"	2-125 psi w/out Gauge, Relieving	06R313AC
1/2"	2-125 psi with Gauge, Relieving	06R318AC
1/4"	5-250 psi w/out Gauge, Relieving	06R115AC
3/8"	5-250 psi w/out Gauge, Relieving	06R215AC
1/2"	5-250 psi w/out Gauge, Relieving	06R315AC

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

Most popular.





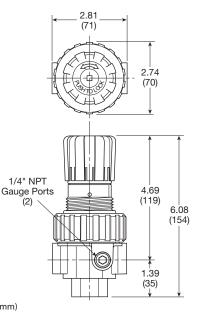
Catalog 0700P-8 Compact Regulators

Material Specifications

Steel
Zinc
Plastic
Plastic
Nitrile
Nitrile
Stainless
Steel

Repair and Service Kits

Bonnet assembly kit	PS715P
Control knob	P04069B
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar) gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS707P
Panel mount nut, plastic	P04082
Panel mount nut, metal	P04079B
Reverse flow service conversion kit, relieving	PS708RP
Relieving (includes poppet)	PS708P
Non-relieving (includes poppet)	PS709P
1-30 psig spring	P01698
1-60 psig spring	P04062
2-125 psig spring	P04063
5-250 psig spring	P04064
Tamperproof kit	PS737P

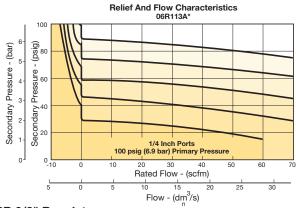


Inches (mm)

Air Preparation Products **Prep-Air**[®] **II Series**

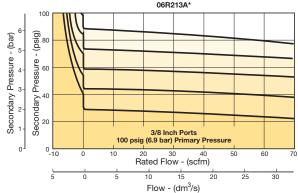
Flow Charts

06R 1/4" Regulator



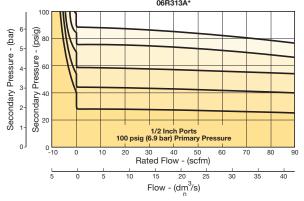
06R 3/8" Regulator

Relief And Flow Characteristics 06R213A*



06R 1/2" Regulator

Relief And Flow Characteristics 06R313A*



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.



C

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

Accessories

Prep-Air ® II Products

Ε

Filters

Air Preparation Products **Prep-Air**[®] **II Series**

07R Regulators – Standard

- 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
- 1/2", 3/4" ports (NPT)





Operating information

Supply pressure (max): Secondary pressure ranges:		250 psig (17.2 bar)	
Standard Low High		2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 5 to 250 psig (0.4 to 17.2 bar)	
Operating temperature: Low temperature		32°F to 175°F (0°C to 80°C) -4°F to 125°F (-20°C to 52°C)	
Flow capacity†: High flow	1/2" 3/4"	90 scfm (42.5 dm ³ /s, ANR) 90 scfm (42.5 dm ³ /s, ANR)	
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4 inch outlet ports)	
Weight:		2.5 lb (1.1 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.			

Ordering Information:

Port Size	Description	Part Number
1/2"	2-125 psi w/out Gauge, Relieving	07R313AC
1/2"	5-250 psi w/ out Gauge, Relieving	07R315AC
1/2"	2-125 psi w/ Gauge, Relieving	07R318AC
1/2"	5-250 psi with Gauge, Relieving	07R321AC
3/4"	2-125 psi w/out Gauge, Relieving	07R413AC
3/4"	5-250 psi w/out Gauge, Relieving	07R415AC
3/4"	2-125 psi w/ Gauge, Relieving	07R418AC
G1/2"	2-125 psi w/out Gauge, Relieving	07R313AC1
G3/4"	2-125 psi w/ Gauge, Relieving	07R418AC1

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.







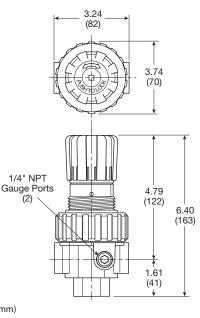
Catalog 0700P-8 Standard Regulators

Material Specifications

-	
Adjusting stem	Steel
Body	Zinc
Bonnet, piston stem, valve poppet & cap	Plastic
Collar, knob	Plastic
Diaphragm	Nitrile
Seals	Nitrile
Spring, poppet	Stainless
Spring, control	Steel

Repair and Service Kits

Bonnet assembly kit	PS715P
Control knob	P04069B
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS807P
Panel mount nut, plastic	P04082
Panel Mount nut, metal	P04079B
Reverse flow service conversion kit, relieving	PS808RP
Relieving (includes poppet)	PS808P
Non-relieving (includes poppet)	PS809P
1-30 psig spring	P01698
1-60 psig spring	P04062
2-125 psig spring	P04063
5-250 psig spring	P04064
Tamperproof kit	PS737P

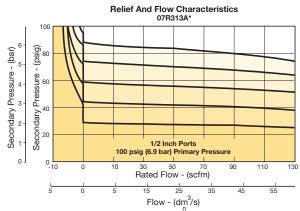


Inches (mm)

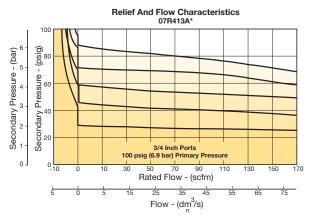
Air Preparation Products **Prep-Air**[®] **II Series**

Flow Charts

07R 1/2" Regulator



07R 3/4" Regulator



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.

Prep-Air ® II Products

Ε

Filters

Coalescers

Regulators

Regulators

Filter /



C

11R Pilot Controlled Regulator – Compact

- 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
- 1/4", 3/8", 1/2" ports (NPT)



Operating information

Supply pressure (max):		0 to 250 psig (0 to 17.2 bar)	
Operating temperature:		32°F to 175°F (0°C to 80°C)	
Flow capacity [†] : High flow	1/4" 3/8" 1/2"	85 scfm (40 dm ³ /s, ANR) 95 scfm (44.8 dm ³ /s, ANR) 95 scfm (44.8 dm ³ /s, ANR)	
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4 inch outlet ports)	
Weight:		1.3 lb (0.53 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.			

Ordering Information:

Port Size	Description	Part Number
1/4"	5-250 psi w/out Gauge, Relieving, Pilot Operated	11R115PC
3/8"	5-250 psi w/out Gauge, Relieving, Pilot Operated	11R215PC
1/2"	5-250 psi w/out Gauge, Relieving, Pilot Operated	11R315PC

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

C



Most popular.



Catalog 0700P-8 Compact Pilot Controlled Regulators

Material Specifications

Body& pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

Repair and Service Kits

Seat Insert kit	PS713P
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face	
160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS707P
Panel mount nut, plastic	P04082
Panel mount nut, metal	P04079B
Pilot conversion kit – relieving	PS745P
Non-Relieving	PS747P
Relieving	PS749P

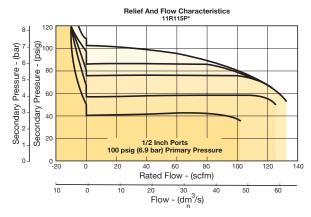
2.81 (71) 2.74 (70) 1/4" NPT Gauge Ports (2) (77) 4.44 (113) (35)

Inches (mm)

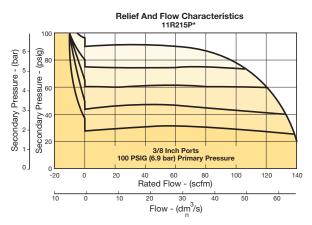
Air Preparation Products Prep-Air[®] II Series

Flow Charts

11R 1/2" Regulator



11R 3/8" Regulator



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





Filters Coalescers Regulators

Prep-Air ® II Products

E

Filter / Regulators

Lubricators Combinations Accessories

12R Pilot Controlled Regulator – Standard

- 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
- 1/2", 3/4" ports (NPT)





Operating information

Supply pressure (max):		0 to 250 psig (0 to 17.2 bar)	
Operating temperature:		32°F to 175°F (0°C to 80°C)	
Flow capacity [†] : High flow	1/2" 3/4"	140 scfm (66 dm ³ /s, ANR) 140 scfm (66 dm ³ /s, ANR)	
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4 inch outlet ports)	
Weight:		2.0 lb (0.91 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.			

Ordering Information:

Port Size	Description	Part Number
1/2"	5-250 psi w/out Gauge, Relieving, Pilot Operated	12R215PB
3/4"	5-250 psi w/out Gauge, Relieving, Pilot Operated	12R415PB

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

C

Most popular.



E23

Catalog 0700P-8 Standard Pilot Controlled Regulators

Material Specifications

Body& pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

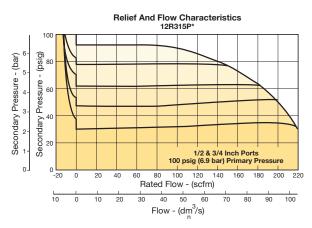
Repair and Service Kits

Seat insert kit	PS813P
2" dial face 60 psig (0 to 4.1 bar)	K4520N14060
2" dial face 160 psig (0 to 11.0 bar)	K4520N14160
2" dial face 300 psig (0 to 20.7 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, plastic	P04082
Panel mount nut, metal	P04079B
Pilot conversion kit – relieving	PS745P
Non-relieving	PS847P
Relieving	PS849P

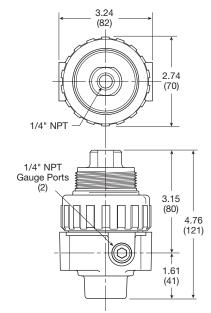
Air Preparation Products **Prep-Air**[®] **II Series**

Flow Charts

12R 1/2 and 3/4" Regulator



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



Inches (mm)

Prep-Air ® II Products

Ε

Filters

Coalescers

Regulators

Regulators

Filter /



C

05E Filter / Regulator – Economy

- Space saving package offers both filter and regulator features for optimal performance
- Excellent water removal efficiency
- Rolling diaphragm for extended life
- Removable non-rising knob for tamper resistance
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure
- 40 micron filter element standard
- 1/4", 3/8" ports (NPT)



Operating information

Supply pressure Plastic bowl	(max):	0 to 150 psig (0 to 10.3 bar)	
Operating tempe Plastic bowl	rature:	32°F to 125°F (0°C to 52°C)	
Flow capacity [†] : High flow	1/4" 3/8"	30 scfm (14.2 dm³/s, ANR) 40 scfm (18.9 dm³/s, ANR)	
Bowl capacity:		2 oz.	
Auto pulse drain	tube barb	1/8 inch	
Gauge ports (2):		1/4 inch	
Sump capacity:		0.9 oz.	
Weight:		1.35 lb (0.6 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.			

Ordering Information:

Most popular.

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Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Guard, Twist Drain, 40 Micron, 2-125 psi w/out Gauge, Relieving	05E12A13AB
3/8"	Poly Bowl, Metal Guard, Twist Drain, 40 Micron, 2-125 psi w/out Gauge, Relieving	05E22A13AB

[‡] For polycarbonate bowl, see caution in Engineering Section A. NOTE: 1.53 Dia. (39 mm) hole required for panel mounting.



Material Specifications

Adjusting stem	Steel
Body	Zinc
Bonnet, internal parts	Plastic
Transparent bowl	Polycarbonate
Bowl guard	Steel
Collar	Plastic
Diaphragm	Nitrile
Drain	Plastic
40 micron element (standard)	Plastic
5 micron element (optional)	Plastic
Adsorber element (optional)	Activated charcoal
Knob	Plastic
Seals	Nitrile
Sight gauge	Polyamide (nylon)
Springs, poppet & control	Steel

Repair and Service Kits

Bowl guard kit	PS905P
Poly bowl, automatic pulse drain	PS995P
Poly bowl, twist drain	PS932P
Auto pulse drain	PS998P
Twist drain	PS512P
40 micron element	PS901P
5 micron element	PS902P
Adsorber element	PS931P
Sight gauge kit	PS914P
1-1/2" dial face 30 psig (0 to 2.1 bar), gauge	K4515N14030
1-1/2" dial face 60 psig (0 to 4.1 bar), gauge	K4515N14060
1-1/2" dial face 160 psig (0 to 11.0 bar), gauge	K4515N14160
1-1/2" dial face 300 psig (0 to 20.7 bar), gauge	K4515N14300
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
Mounting bracket kit (includes panel mount nut)	PS963P
Panel mount nut – metal	PS964P
1-30 psig spring	P04427
1-60 psig spring	P04426
2-125 psig spring	P04425
2-200 psig spring	P02934
Relieving service kit	PS908P
Bonnet assembly kit	PS915P

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

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

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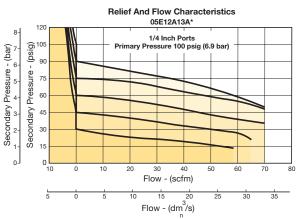


For inventory, lead times, and kit lookup, visit www.pdnplu.com

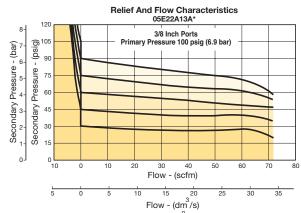
Air Preparation Products Prep-Air[®] II Series

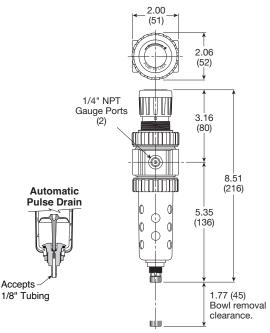
Flow Charts

05E 1/4" Filter / Regulator



05E 3/8" Filter / Regulator





Inches (mm)

Accepts

E26

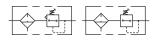
Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics

Prep-Air ® II Products

Ε

06E Filter / Regulator – Compact

- 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
- 1/4", 3/8", 1/2" ports (NPT)





Prep-Air [®] II Products

Ε

Filters

Coalescers

Regulators

Filter / Regulators

Combinations Lubricators

Accessories

Operating information

Supply pressure (ma Plastic bowl Metal bowl Auto float drain	x):	0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar) 15 to 250 psig (1.0 to 17.2 bar)	
Operating temperatu	ire:		
Plastic bowl Metal bowl		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)	
Secondary pressure	range:		
Standard		2 to 125 psig (0 to 8.6 bar)	
Low		1 to 60 psig (0 to 4.1 bar)	
High		5 to 250 psig (0.4 to 17.2 bar)	
Flow capacity [†] :			
High flow	1/4"	45 scfm (21.7 dm ³ /s, ANR)	
	3/8"	55 scfm (26 dm ³ /s, ANR)	
	1/2"	61 scfm (28.8 dm ³ /s, ANR)	
Bowl capacity:		4.4 oz.	
Gauge ports (2):		1/4 inch (can be used as additional	
		full flow 1/4" outlet ports)	
Sump capacity:		1.75 oz.	
Weight:		1.6 lb (0.7 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.			

Ordering Information:

Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E12A13AC
1/4"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E12A18AC
1/4"	Poly Bowl, Metal Guard, Twist Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	06E12B18AC
1/4"	Metal Bowl, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E13A13AC
1/4"	Metal Bowl, Twist Drain, 40 micron, 2-125 psi w/out Gauge, T-Handle Relieving	06E13A13TC
1/4"	Metal Bowl, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E13A18AC
1/4"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E14A13AC
1/4"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E14A18AC
1/4"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E16A13AC
1/4"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E16A18AC
3/8"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E22A13AC
3/8"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E22A18AC
3/8"	Poly Bowl, Metal Guard, Twist Drain, 5 micron, 2-125 psi w/out Gauge, Relieving	06E22B13AC

Most popular.



C

Parker Hannifin Corporation Pneumatic Division

Continued on next page

Richland, Michigan www.parker.com/pneumatics

Ordering Information cont.:

Prep-Air [®] II Products

Ε

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators Combinations Accessories

Port Size	Description [‡]	Part Number
3/8"	Metal Bowl, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E23A18AC
3/8"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E24A13AC
3/8"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E24A18AC
3/8"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E26A13AC
3/8"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E26A18AC
3/8"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E28A13AC
1/2"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E32A13AC
1/2"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E32A18AC
1/2"	Poly Bowl, Metal Guard, Twist Drain, 5 micron, 2-125 psi w/out Gauge, Relieving	06E32B13AC
1/2"	Poly Bowl, Metal Guard, Twist Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	06E32B18AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E34A13AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E34A18AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	06E34B18AC
1/2"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E36A13AC
1/2"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E36A18AC
1/2"	Poly Bowl, Metal Guard, Auto Float Drain, 5 micron, 2-125 psi w/out Gauge, Relieving	06E36B13AC
1/2"	Metal Bowl, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E37A18AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	06E38A13AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	06E38A18AC
G1/4"	Metal Bowl, Auto Float Drain, 5 micron, 2-125 psi w/out Gauge, Relieving	06E17B13AC1

[‡] For polycarbonate bowl, see caution in Engineering Section A.

NOTE: 2.0 Dia. (50.8 mm) hole required for panel mounting. Max panel thickness 1/4"



C

(Revised 04-30-20)

Material Specifications

•	
Adjusting stem	Steel
Body	Zinc
Bonnet, internal parts	Plastic
Transparent bowl	Polycarbonate
Metal bowl (with or without sight gauge)	Zinc
Bowl guard	Steel
Collar	Plastic
Diaphragm	Nitrile
Manual twist drain, standard, body & nut	Plastic
Auto float drain, housing, float	Plastic
Auto float drain, seals	Nitrile
Auto float drain, springs, push rod	Stainless steel
Knob	Plastic
40 micron element (standard)	Plastic
5 micron element (optional)	Plastic
Adsorber element (optional)	Activated charcoal
Seals	Nitrile
Sight gauge	Polyamide
Poppet, spring	Stainless
Control, spring	Steel

Repair and Service Kits

Bonnet assembly kit	PS715P
Bowl guard kit	PS705P
Poly bowl, auto float drain	PS722P
Poly bowl, twist drain	PS732P
Metal bowl, auto float drain	PS726P
Metal bowl, twist drain	PS734P
Metal bowl, sight gauge / auto drain	PS723P
Metal bowl, sight gauge / twist drain	PS735P
Control knob	P04069B
Auto float drain	PS506P
Twist drain	PS512P
40 micron element	PS701P
5 micron element	PS702P
Adsorber element	PS731P
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS707P
Panel mount nut	P04082
Non-relieving (includes poppet)	PS711P
Relieving (includes poppet)	PS710P
Seat insert kit	PS713P
1- 30 psig spring	P01698
1- 60 psig spring	P04062
2- 125 psig spring	P04063
5- 250 psig spring	P04064
Tamperproof kit (key lock)	PS737P

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

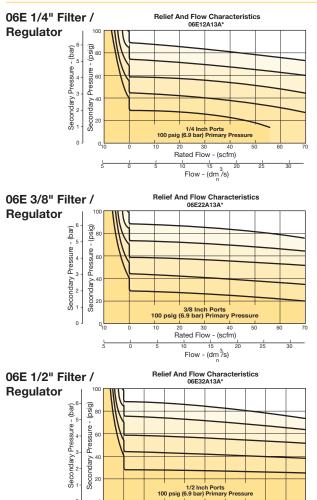




E29

Air Preparation Products **Prep-Air**[®] **II Series**

Flow Charts



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.

Rated Flow - (scfm)

Flow - (dm³/s)

2.81 (71)2.74 (70) 1/4" NPT Gauge Ports 4.69 (2) (119)10.38 (264) †10.43 (265)¢ 5.69 (145) ф Ф [†] With twist or 2.25 (57) auto float drain Bowl removal Inches (mm) clearance.

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



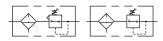
Prep-Air [®] II Products

Ε

Filters

07E Filter / Regulator – Standard

- 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
- 1/2", 3/4" ports (NPT)





Operating information

x):	0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar) 15 to 250 psig (1.0 to 17.2 bar)	
re:	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)	
ange:	2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 5 to 250 psig (0.4 to 17.2 bar)	
1/2" 3/4"	90 scfm (42.5 dm ³ /s, ANR) 90 scfm (42.5 dm ³ /s, ANR)	
	7.2 oz.	
	1/4 inch (can be used as additional full flow 1/4" outlet ports)	
	2.8 oz.	
	2.5 lb (1.1 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.		
	re: ange: 1/2" 3/4"	

Ordering Information:

Port Size	Description [‡]	Part Number
1/2"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	07E32A13AC
1/2"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	07E32A18AC
1/2"	Poly Bowl, Metal Guard, Twist Drain, 5 micron, 2-125 psi w/ out Gauge, Relieving	07E32B13AC
1/2"	Poly Bowl, Metal Guard, Twist Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	07E32B18AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	07E34A13AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 5-250 psi w/out Gauge, Relieving	07E34A15AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	07E34A18AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 5 micron, 2-125 psi w/out Gauge, Relieving	07E34B13AC
1/2"	Metal Bowl, Sight Gauge, Twist Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	07E34B18AC
1/2"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/ out Gauge, Relieving	07E36A13AC
1/2"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	07E36A18AC
1/2"	Poly Bowl, Metal Guard, Auto Float Drain, 5 micron, 2-125 psi w/ out Gauge, Relieving	07E36B13AC
1/2"	Poly Bowl, Metal Guard, Auto Float Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	07E36B18AC
1/2"	Metal Bowl, Auto Float Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	07E37A13AC

Most popular.

Continued on next page

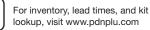
Prep-Air [®] II Products

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Filters



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Ordering Information cont.:

Port Size	Description [‡]	Part Number
1/2"	Metal Bowl, Auto Float Drain, 5 micron, 2-125 psi w/out Gauge, Relieving	07E37B13AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 micron, 2-125 psi w/ out Gauge, Relieving	07E38A13AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	07E38A18AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 micron, 5-250 psi w/ Gauge, Relieving	07E38A21AC
1/2"	Metal Bowl, Sight Gauge, Auto Float Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	07E38B18AC
3/4"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/ out Gauge, Relieving	07E42A13AC
3/4"	Poly Bowl, Metal Guard, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	07E42A18AC
3/4"	Poly Bowl, Metal Guard, Twist Drain, 5 micron, 2-125 psi w/out Gauge, Relieving	07E42B13AC
3/4"	Metal Bowl, Twist Drain, 40 micron, 2-125 psi w/ out Gauge, Relieving	07E43A13AC
3/4"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/ out Gauge, Relieving	07E44A13AC
3/4"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	07E44A18AC
3/4"	Metal Bowl, Sight Gauge, Twist Drain, 5 micron, 5-250 psi w/ out Gauge, Relieving	07E44B15AC
3/4"	Metal Bowl, Sight Gauge, Twist Drain, 5 micron, 2-125 psi w/ Gauge, Relieving	07E44B18AC
3/4"	Metal Bowl, Sight Gauge, Twist Drain, 40 micron, 5-250 psi w/ Gauge, Relieving	07E44B21AC
3/4"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/ out Gauge, Relieving	07E46A13AC
3/4"	Poly Bowl, Metal Guard, Auto Float Drain, 40 micron, 2-125 psi w/ Gauge, Relieving	07E46A18AC
3/4"	Metal Bowl, Auto Float Drain, 40 micron, 2-125 psi w/out Gauge, Relieving	07E47A13AC
3/4"	Metal Bowl, Sight Gauge, Auto Float Drain, 40 micron, 2-125 psi w/ out Gauge, Relieving	07E48A13AC

 $^{\ddagger}\,$ For polycarbonate bowl, see caution in Engineering Section A.

NOTE: 2.0 Dia. (50.8 mm) hole required for panel mounting. Max panel thickness 1/4".

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Regulators

Most popular.



Material Specifications

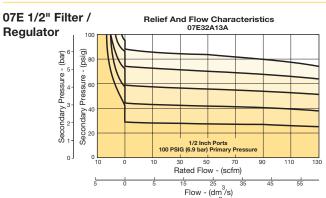
·	
Adjusting stem	Steel
Body	Zinc
Bonnet, internal parts	Plastic
Transparent bowl	Polycarbonate
Metal bowl (with or without sight gauge)	Zinc
Bowl guard	Steel
Collar	Plastic or metal
Diaphragm	Nitrile
Manual twist drain, standard, body & nut	Plastic
Auto float drain, housing, float	Plastic
Auto float drain, seals	Nitrile
Auto float drain, springs, push rod	Stainless steel
Knob	Plastic
40 micron element (standard)	Plastic
5 micron element (optional)	Plastic
Adsorber element (optional)	Activated charcoal
Seals	Nitrile
Sight gauge	Polyamide
Poppet, spring	Stainless
Control, spring	Steel

Repair and Service Kits

Bonnet assembly kit	PS715P
Bowl guard kit	PS805P
Poly bowl, auto float drain	PS822P
Poly bowl, twist drain	PS832P
Metal bowl, automatic float drain	PS826P
Metal bowl, twist drain	PS834P
Metal bowl, sight gauge / auto drain	PS823P
Metal bowl, sight gauge / twist drain	PS835P
Control knob	P04069B
Auto float drain	PS506P
Twist drain	PS512P
40 micron element	PS801P
5 micron element	PS802P
Adsorber element	PS831P
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	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	P04082
Non-relieving (includes poppet)	PS811P
Relieving (includes poppet)	PS810P
Seat insert kit	PS813P
1- 30 psig spring	P01698
1- 60 psig spring	P04062
2- 125 psig spring	P04063
5- 250 psig spring	P04064
Tamperproof kit (key lock)	PS737P

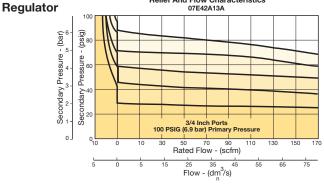
Air Preparation Products Prep-Air[®] II Series

Flow Charts





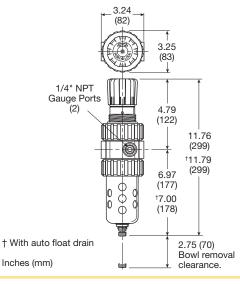
Relief And Flow Characteristics 07E42A13A



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.



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



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E32

Prep-Air [®] II Products

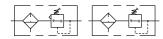
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Filters

Coalescers

12E Filter / Regulator – Coalescing

- 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
- 1/2", 3/4" ports (NPT)



Operating information

Supply pressure (Metal bowl	max):	0 to 250 psig (0 to 17.2 bar)
Operating temper Metal bowl	ature:	32°F to 175°F (0°C to 80°C)
Secondary pressu Standard Low	ire range:	2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar)
High		5 to 250 psig (0.4 to 17.2 bar)
Flow capacity†: High flow	1/2" 3/4"	40 scfm (18.9 dm ³ /s, ANR) 45 scfm (21.2 dm ³ /s, ANR)
Bowl capacity:		7.2 oz.
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4" outlet ports)
Sump capacity:		2.8 oz.
Weight:		2.5 lb (1.1 kg)
[†] scfm = Standard cubic feet per minute at 150 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.		

Ordering Information:

Port Size	Description [‡]	Part Number
1/2"	Metal Bowl, Twist Drain, Grade 6 (0.01), 2-125 psi w/out Gauge, Relieving	12E33E13AA
1/2"	Metal Bowl, Twist Drain, Grade 6 (0.01), 2-125 psi w/ Gauge, Relieving	12E33E18AA
1/2"	Metal Bowl, Auto Float Drain, Grade 6 (0.01), 2-125 psi w/ out Gauge, Relieving	12E37E13AA
1/2"	Metal Bowl, Auto Float Drain, Grade 6 (0.01), 2-125 psi w/ Gauge, Relieving	12E37E18AA
3/4"	Metal Bowl, Twist Drain, Grade 6 (0.01), 2-125 psi w/ Gauge, Relieving	12E43E18AA

[‡] For polycarbonate bowl, see caution in Engineering Section A.

NOTE: 2.0 Dia. (50.8 mm) hole required for panel mounting. Max panel thickness 1/4"

Most popular.







Material Specifications

-	
Adjusting stem	Steel
Body	Zinc
Bonnet, internal parts	Plastic
Metal bowl (without sight gauge)	Zinc
Collar for bonnet	Metal
Control spring	Steel
Diaphragm	Nitrile
Manual twist drain, standard, body & nut	Plastic
Auto float drain, housing, float	Plastic
Auto float drain, seals	Nitrile
Auto float drain, springs, push rod	Stainless steel
Knob	Plastic
Element	Borosilicate & felt glass fibers
Seals	Nitrile
Sight gauge	Polyamide
Poppet, spring	Stainless

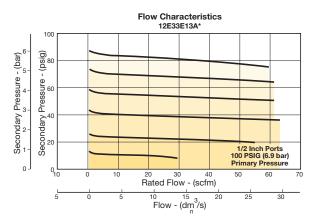
Repair and Service Kits

•	
Bonnet assembly kit	PS715P
Metal bowl, auto float drain	PS826P
Metal bowl, twist drain	PS834P
Control knob	P04069B
Auto float drain	PS506P
Twist drain	PS512P
Grade 6 element (0.01 micron)	PS884P
Grade 10 element (1.0 micron)	PS885P
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face	
160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS807P
Relieving (includes poppet)	PS886P
1- 30 psig spring	P01698
1- 60 psig spring	P04062
2- 125 psig spring	P04063
5- 250 psig spring	P04064
Tamperproof kit (key lock)	PS737P

Air Preparation Products **Prep-Air**[®] **II Series**

Flow Charts

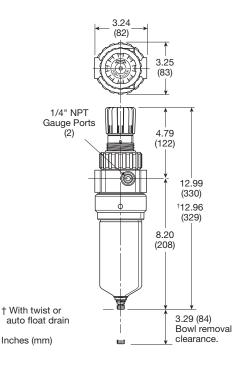
12E 1/2" Filter / Regulator



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.



Prep-Air ® II Products

Coalescers



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E34

15L Micro-Mist Lubricators – Economy

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





Operating information

Supply pressure (max Plastic bowl): 150 psig (10.3 bar)	
Operating temperatur Plastic bowl	e: 32°F to 125°F (0°C to 52°C)	
	/4" 40 scfm (18.9 dm ³ /s, ANR) 3/8" 40 scfm (18.9 dm ³ /s, ANR)	
Minimum flow	2 scfm (0.9 dm ³ /s, ANR) at 100 psig (6.9 bar)	
Bowl capacity:	2.0 oz.	
Weight	1.0 lb (0.45 kg)	
 [†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop. 		

Ordering Information:

Port Size	Description [‡]	Part Number
3/8"	Poly Bowl, Metal Bowl Guard, No Drain, No Fill Plug	15L22NA

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.

 Suggested Lubricant
 F442 Oil

 Petroleum based oil of 100 to 200 SUS 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.)

Prep-Air ® II

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Products





Material Specifications

Body	Zinc
Transparent bowl	Polycarbonate
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)

Repair and Service Kits

Prep-Air [®] II Products

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Filters

Coalescers

Regulators

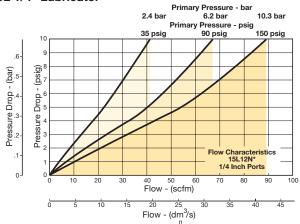
Filter / Regulators

Adjustment knob	P04121
Bowl guard kit	PS905P
Poly bowl, no drain	PS946P
Twist drain	PS512P
Mounting bracket kit	PS943P
Service kit	PS948P
Sight dome kit	PS740P
Sight gauge kit	PS914P
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

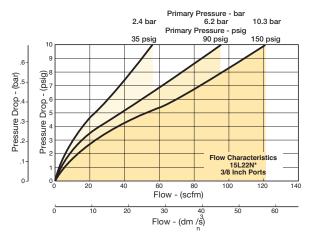
Air Preparation Products **Prep-Air**[®] **II Series**

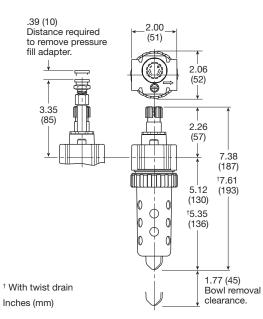
Flow Charts

15L 1/4" Lubricator



15L 3/8" Lubricator





Lubricators



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16L Micro-Mist Lubricators – Compact

- 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
- Integral 1/4", 3/8", 1/2" (NPT)



Operating information			
Supply pressure (max): Plastic bowl Metal bowl	150 psig (10.3 bar) 250 psig (17.2 bar)		
Operating temperature: Plastic bowl Metal bowl	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)		
Flow capacity [†] : High flow 1/4" 3/8" 1/2"	40 scfm (18.9 dm³/s, ANR) 60 scfm (28.3 dm³/s, ANR) 90 scfm (42.5 dm³/s, ANR)		
Minimum flow	1 scfm (0.5 dm ³ /s, ANR) at 100 psig (6.9 bar)		
Bowl capacity:	2.6 oz.		
Weight:	1.2 lb (0.5 kg)		
 [†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop. 			

Ordering Information:

Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	16L12BE
1/4"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	16L14BE
3/8"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	16L22BE
3/8"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	16L24BE
1/2"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	16L32BE
1/2"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	16L34BE

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.

 Suggested Lubricant
 F442 Oil

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

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Compact Micro-Mist Lubricators

Material Specifications

Body	Zinc
Transparent bowls	Polycarbonate
Metal bowl (with sight gauge)	Zinc
Bowl guard	Steel
Collar	Plastic
Twist drain – body & nut	Plastic
Injector meter block & base assembly	Plastic
Seals	Nitrile
Sight dome	Polycarbonate
Sight gauge	Polyamide (nylon)

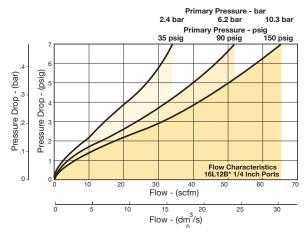
Repair and Service Kits

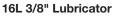
Adjustment knob	P04121
Bowl guard kit	PS705P
Poly bowl / no drain kit	PS746P
Poly bowl / twist drain kit	PS717P
Poly bowl / pressure fill kit	PS719P
Poly bowl / remote fill kit	PS728P
Metal bowl / sight gauge / twist drain kit	PS729P
Twist drain kit	PS512P
Fill cap kit	PS742P
Lubricator service kit	PS748P
Mounting bracket kit	PS743P
Pressure fill adapter kit	PS716P
Pressure fill button	P11912
Sight dome / fill cap kit	PS739P
Sight dome kit, polycarbonate	PS740P
Sight dome kit, nylon	PS740N
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

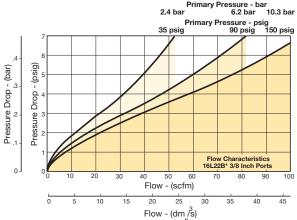
Air Preparation Products **Prep-Air® II Series**

Flow Charts

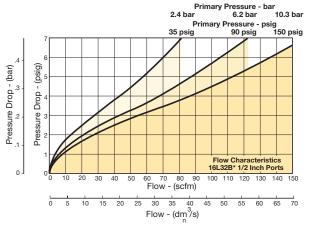
16L 1/4" Lubricator



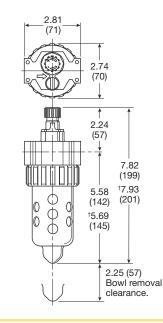








[†] With twist drain



Inches (mm)



For inventory, lead times, and kit lookup, visit www.pdnplu.com

E38

17L Micro-Mist Lubricators – Standard

- 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.
- Integral 1/2", 3/4" ports (NPT)



Operating information			
Supply pressure (max): Plastic bowl Metal bowl		150 psig (10.3 bar) 250 psig (17.2 bar)	
Operating temperature: Plastic bowl Metal bowl		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)	
	1/2" 3/4"	90 scfm (42.5 dm ³ /s, ANR) 90 scfm (42.5 dm ³ /s, ANR)	
Minimum flow		1 scfm (0.5 dm ³ /s, ANR) at 100 psig (6.9 bar)	
Bowl capacity:		4.9 oz.	
Weight:		1.9 lb (0.9 kg)	
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.			

Ordering Information:

Port Size	Description [‡]	Part Number
1/2"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	17L32BE
1/2"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	17L34BE
1/2"	Poly Bowl, Metal Bowl Guard, Pressure Fill, With Fill Plug	17L36BE
3/4"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	17L42BE
3/4"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	17L44BE
3/4"	Poly Bowl, Metal Bowl Guard, Pressure Fill, With Fill Plug	17L46BE

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.

Petroleum based oil of 100 to 200 SUS 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.)

Most popular.





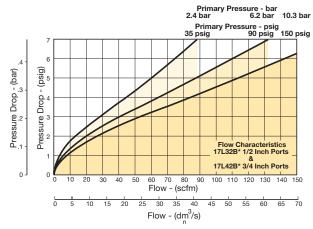
Standard Micro-Mist Lubricators

Material Specifications

Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl (with sight gauge)	Zinc
Bowl guard	Steel
Collar	Plastic or Metal
Twist drain– body & nut	Plastic
Injector meter block & base assembly	Plastic
Seals	Nitrile
Sight dome	Polycarbonate
Sight gauge	Polyamide (nylon)

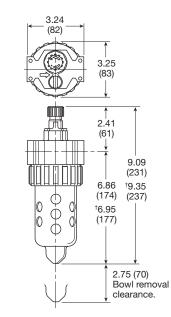
Flow Charts

17L 1/2" & 3/4" Lubricator



Repair and Service Kits

Adjustment knob	P04121
Bowl guard kit	PS805P
Poly bowl / no drain kit	PS846P
Poly bowl / twist drain kit	PS817P
Poly bowl / pressure fill kit	PS819P
Metal bowl / sight gauge / twist drain kit	PS829P
Metal bowl / sight gauge / pressure fill kit	PS820P
Twist drain kit	PS512P
Fill cap kit	PS742P
Lubricator service kit	PS748P
Mounting bracket kit	PS843P
Pressure fill adapter kit	PS716P
Pressure fill button	P11912
Sight dome / fill cap kit	PS739P
Sight dome kit, polycarbonate	PS740P
Sight dome kit, nylon	PS740N
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005



Combinations Accessories

Prep-Air [®] II Products

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Filters

Coalescers



[†] With twist drain

Inches (mm)

Air Preparation Products **Prep-Air**[®] **II Series**

06L Mist Lubricators – Compact

- 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
- Integral 1/4", 3/8", 1/2" ports (NPT)





Operating information

Supply pressure (max): Plastic bowl Metal bowl		150 psig (10.3 bar) 250 psig (17.2 bar)
Operating temperature: Plastic bowl Metal bowl		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)
Flow capacity [†] : High flow	1/4" 3/8" 1/2"	40 scfm (18.9 dm ³ /s, ANR) 60 scfm (28.3 dm ³ /s, ANR) 90 scfm 42.5 dm ³ /s, ANR)
Minimum flow		0.5 2 scfm (0.24 dm ³ /s, ANR) at 100 psig (6.9 bar)
Bowl capacity:		2.9 oz.
Weight:		1.2 lb (0.5 kg)
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Ordering Information:

Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	06L12BE
1/4"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	06L14BE
3/8"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	06L22BE
3/8"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	06L24BE
1/2"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	06L32BE
1/2"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	06L34BE
G1/2"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	06L32BE1

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.

Petroleum based oil of 100 to 200 SUS 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

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

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Most popular.





(Revised 04-30-20)

Air Preparation Products **Prep-Air® II Series**

Material Specifications

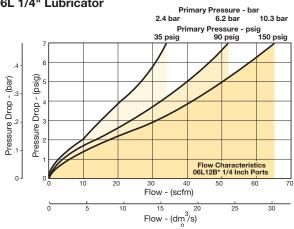
Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl (with sight gauge)	Zinc
Bowl guard	Steel
Collar	Plastic
Twist drain – body & nut	Plastic
Injector meter block & base assembly	Plastic
Seals	Nitrile
Sight dome	Polycarbonate
Sight gauge	Polyamide (nylon)

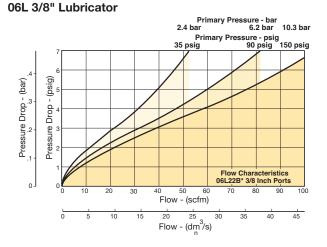
Repair and Service Kits

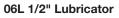
Adjustment knob	P04121
Bowl guard kit	PS705P
Poly bowl / no drain kit	PS746P
Poly bowl / twist drain kit	PS717P
Poly bowl / pressure fill kit	PS719P
Metal bowl / sight gauge / twist drain kit	PS729P
Metal bowl / sight gauge / pressure fill kit	PS720P
Twist drain kit	PS512P
Fill cap kit	PS741P
_ubricator service kit	PS718P
Mounting bracket kit	PS743P
Pressure fill adapter kit	PS716P
Pressure fill button	P11912
Sight dome / fill cap kit	PS738P
Sight dome kit, polycarbonate	PS740P
Sight dome kit, nylon	PS740N
Dil (1 quart)	F442001
Dil (1 gallon)	F442002
Dil (12 quart case)	F442003
Dil (4 gallon case)	F442005

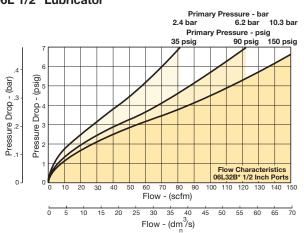
Flow Charts

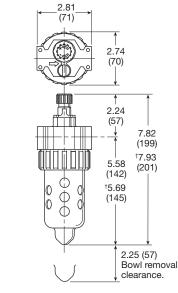
06L 1/4" Lubricator











[†] With twist drain Inches (mm)





C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

E42

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

Prep-Air [®] II Products

Air Preparation Products **Prep-Air**[®] **II Series**

07L Mist Lubricators – Standard

- 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
- Integral 1/2", 3/4" ports (NPT)



Operating information							
Supply pressure (max): Plastic bowl Metal bowl	150 psig (10.3 bar) 250 psig (17.2 bar)						
Operating temperature: Plastic bowl Metal bowl	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)						
Flow capacity [†] : High flow 1/2" 3/4"	90 scfm (42.5 dm ³ /s, ANR) 90 scfm (42.5 dm ³ /s, ANR)						
Minimum flow	0.5 2 scfm (0.24 dm ³ /s, ANR) at 100 psig (6.9 bar)						
Bowl capacity:	6.0 oz.						
Weight:	1.9 lb (0.9 kg)						
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.							

Ordering Information:

Port Size	Description [‡]	Part Number
1/2"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	07L32BE
1/2"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	07L34BE
1/2"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	07L34FE
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain, With Fill Plug	07L3NBE
3/4"	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	07L42BE
3/4"	Metal Bowl, Sight Gauge, Twist Drain, With Fill Plug	07L44BE
1/2" BSPP	Poly Bowl, Metal Bowl Guard, No Drain, With Fill Plug	07L32BE1

[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.

Most popular.





(Revised 04-30-20)

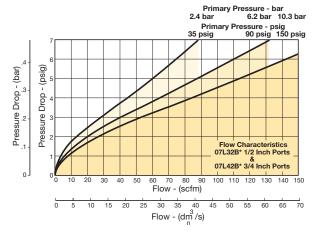
Air Preparation Products **Prep-Air**[®] **II Series**

Material Specifications

Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl (with sight gauge)	Zinc
Bowl guard	Steel
Collar	Plastic or metal
Twist drain – body & nut	Plastic
Injector meter block & base assembly	Plastic
Seals	Nitrile
Sight dome	Polycarbonate
Sight gauge	Polyamide (nylon)

Flow Charts

07L 1/2" & 3/4" Lubricator



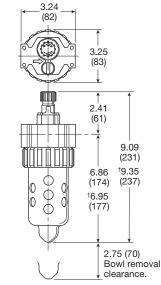
Repair and Service Kits

Adjustment knob	P04121
Bowl guard kit	PS805P
Poly bowl / no drain	PS846P
Poly bowl / twist drain	PS817P
Poly bowl / pressure fill	PS819P
Metal bowl / sight gauge / twist drain	PS829P
Metal bowl / sight gauge / pressure fill	PS820P
Twist drain kit	PS512P
Fill cap kit	PS741P
Lubricator service kit	PS718P
Mounting bracket kit	PS843P
Pressure fill adapter kit	PS716P
Pressure fill button	P11912
Sight dome / fill cap kit	PS738P
Sight dome kit, polycarbonate	PS740P
Sight dome kit, nylon	PS740N
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

Prep-Air [®] II Products

Ε

Filters



[†] With twist drain Inches (mm)



06 Compact, 07 Standard Close Nippled Series Combinations

- Regulator can be mounted with knob in up or down position
- 40 micron filter element standard, 5 micron optional
- Manual twist drain
- Relieving regulator





Prep-Air [®] II Products

Ε

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Accessories

06A/16G Compact Standard Close Nippled Series Combinations:

Port Size	Filter Bowl Type ‡	Element Type	Relief Type	Pressure Range	Lubricator Bowl Type	Lubricator Type	2-unit / 3-unit	Part Numbers
3/8"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/out gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	2-unit	06G22A13A2BC
3/8"	Metal Bowl, Sight Gauge, Twist Drain	40 micron	Relieving	2-125 psi w/out gauge	Metal Bowl, Sight Gauge, Twist Drain	Mist, With Fill Plug	2-unit	06G24A13A4BC
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/ gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	2-unit	06G32A18A2BC
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micon	Relieving	2-125 psi w/ gauge	Poly Bowl, Metal Bowl Guard, No Drain	Micro-Mist, With Fill Plug	3-unit	16G32A18A2BC

07A/17G Standard Close Nippled Series Combinations:

Port Size	Filter Bowl Type ‡	Element Type	Relief Type	Pressure Range	Lubricator Bowl Type	Lubricator Type	2-unit / 3-unit	Part Numbers
1/2"	Metal Bowl, Twist Drain	40 micron	Relieving	2-125 psi w/out gauge	Metal Bowl, Sight Gauge, Twist Drain	Micro-Mist, With Fill Plug	2-unit	17G33A13A4BD
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/out gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	3-unit	07A32A13A2BD
1/2"	Metal Bowl, Twist Drain	40 micron	Relieving	2-125 psi w/ gauge	Metal Bowl, Sight Gauge, Twist Drain	Mist, With Fill Plug	3-unit	07A33A18A4BD
3/4"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/out gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	3-unit	07A42A13A2BD
3/4"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/ gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	3-unit	07A42A18A2BD
3/4"	Poly Bowl, Metal Bowl Guard, Auto Float Drain	5 micron	Relieving	2-125 psi w/ gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	3-unit	07A46B18A2BD

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.

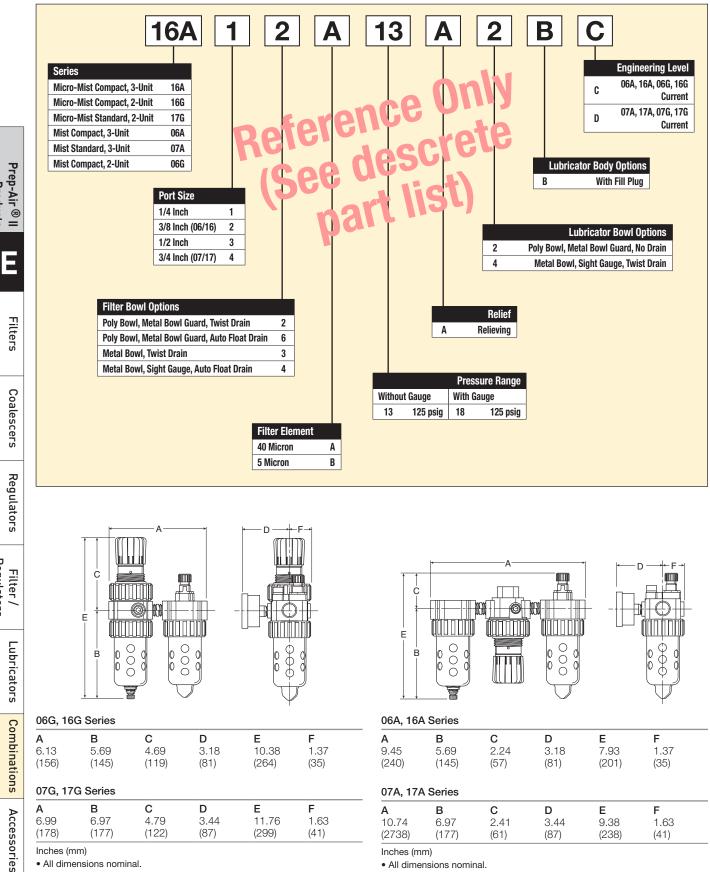
Most popular.



Ordering Information:

Products

Regulators



-Parker

Parker Hannifin Corporation Pneumatic Division

Richland, Michigan www.parker.com/pneumatics

07 Standard Modular Series Combinations

- Regulator can be mounted with knob in up or down position
- 40 micron filter element standard, 5 micron optional
- Manual twist drain
- Relieving regulator





Prep-Air [®] II Products

Ε

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Accessories

07B/17B/17H Standard Modular Series Combinations:

Port Size	Filter Bowl Type ‡	Element Type	Relief Type	Pressure Range	Lubricator Bowl Type	Lubricator Type	2-unit / 3-unit	Modular Options	Part Numbers
3/4"	Metal Bowl, Sight Gauge, Twist Drain	5 micron	Relieving	5-250 psi w/ gauge	Metal Bowl, Sight Gauge, Twist Drain	Micro-Mist, With Fill Plug	2-unit		17H44B21A4BD
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/out gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	3-unit		07B32A13A2BD
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/ gauge	Poly Bowl, Metal Bowl Guard, No Drain	Mist, With Fill Plug	3-unit	W/ Mounting Bracket	07B32A18A2BDW
1/2"	Metal Bowl, Twist Drain	40 micron	Relieving	5-250 psi w/ gauge	Metal Bowl, Twist Drain	Mist, With Fill Plug	3-unit		07B33A21A3BD
3/4"	Metal Bowl, Twist Drain	40 micron	Relieving	2-125 psi w/ gauge	Metal Bowl, Sight Gauge, Twist Drain	Mist, With Fill Plug	3-unit	W/ Mounting Bracket	07B43A18A4BDW
1/2"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/ gauge	Poly Bowl, Metal Bowl Guard, No Drain	Micro-Mist, With Fill Plug	3-unit		17B32A18A2BD
3/4"	Poly Bowl, Metal Bowl Guard, Twist Drain	40 micron	Relieving	2-125 psi w/ gauge	Poly Bowl, Metal Bowl Guard, No Drain	Micro-Mist, With Fill Plug	3-unit		17B42A18A2BD

🗥 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.

Most popular.

-Parker



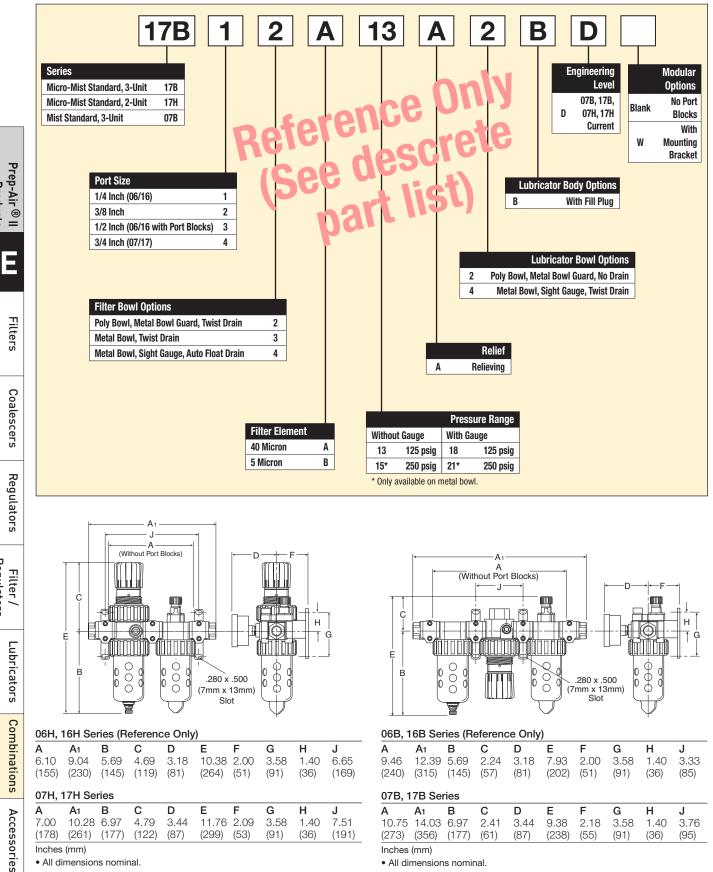
For inventory, lead times, and kit lookup, visit www.pdnplu.com

E47

Ordering Information:

Products

Regulators



(356) Inches (mm) · All dimensions nominal.

(61)

(177)

(87)

(238)

(55)

All dimensions nominal.

(261)

(178)

Inches (mm)

(177)

(122)

(87)

(299)

(53)

(91)

(36)

(191)

(273)

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

(91)

(36)

(95)

Catalog 0700P-8 Modular Accessories

(Revised 03-06-17)

Service Kits

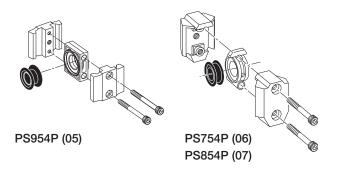
Body connector, (05 series)	PS954P
Body connector, (06 series)	PS754P
Body connector, (07 series)	PS854P
Wall mounting kits (05 series)	PS955P
Wall mounting kits (06 & 07 series)	PS755P
Lockout valves, (06 series)	PS756P
Lockout valves, (07 series)	PS856P
Modular manifold block 3/8" port, (06 series)	PS757P
Modular manifold block 1/2" port, (07 series)	PS857P

Body Connectors

Body connectors allow you to easily assemble and disassemble modular combinations.

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

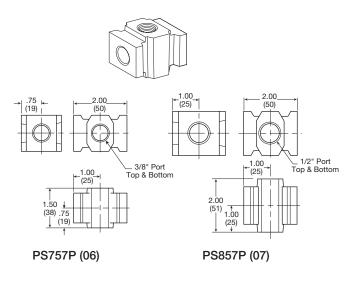
Each kit includes one set.



Modular Manifold Block

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.

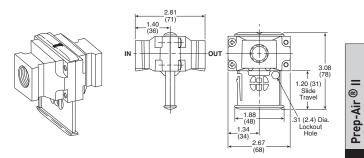


Air Preparation Products Prep-Air[®] II Series

Lockout Valves

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.



Wall Mounting Kits

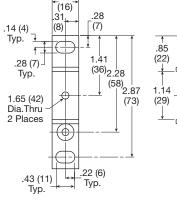
Wall mounting kits are available for mounting your modular assemblies and can be assembled and used with any standard body connector set.

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

63

Kit includes 1 assembly.

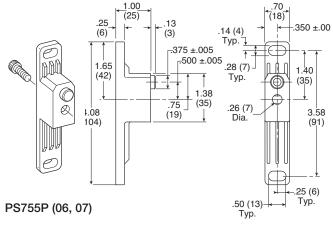






.63

PS955P (05)



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



E49

Lubricators

Combinations

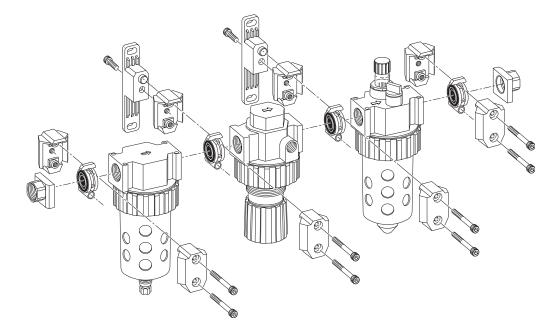
Accessories

Products

Ε

Filters

Modular Accessories – 06 Compact & 07 Standard Series



Port Block Connector Kits

06 Series

Prep-Air [®] II Products

Ε

Filters

Coalescers

Regulators

Filter / Regulators

1/4" Port block kits, NPT	PS750P
1/4" Port block kits, BSPP	PS765P [†]
3/8" Port block kits, NPT	PS751P
3/8" Port block kits, BSPP	PS766P †
1/2" Port block kits, NPT	PS752P*
1/2" Port block kits, BSPP	PS767P* [†]

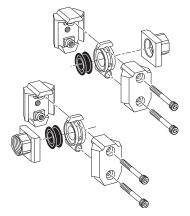
07 Series

1/4" Port block kits, NPT	PS850P
1/4" Port block kits, BSPP	PS865P
3/8" Port block kits, NPT	PS851P
3/8" Port block kits, BSPP	PS866P
1/2" Port block kits, NPT	PS852P
1/2" Port block kits, BSPP	PS867P ‡
3/4" Port block kits, NPT	PS853P
3/4" Port block kits, BSPP	PS860P

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

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

‡ 1/2 inch meets ISO 1179-1 Standard.



Port block connectors allow you to make threaded port connections to modular units and are available in various port sizes to match your system requirements.

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

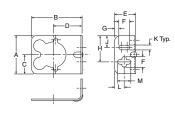


- E

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P3NKA00MW

Mounting Bracket Kits



PS417BP

(Includes Panel Mount Nut)

PS943P

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HO

PS419

(Includes Panel Mount Nut)

D

PS743P, PS843P



Ε



Regulators

	bricators Filter /
	Lu
	Combinations
_)	Accessories

PS963P

(Includes Aluminum Panel Mount Nut)

PS707P & PS807P
(Includes Panel Mount Nut)

Dimensions

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

inches (mm)



E51

Parker Hannifin Corporation

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

Products	Prep-Air [®] II
	Filters
	Coalescers
	Regulators
Regulators	Filter /
	Lubricators
	Combinations
	Accessories





For inventory, lead times, and kit lookup, visit www.pdnplu.com

Air Preparation Products Contents - www.parker.com/pneu/frl

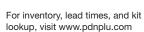
Air Preparation Products Stainless Steel Products

PF504 Particulate Filters	F2-F3
PF10 Particulate Filters	F4-F5
PF501 Coalescing Filters	F6-F7
PF11 Coalescing Filters	F8-F9
PR354 & PR364 Regulators	F10-F11
PR10 & PR11 Regulators	F12-F13
PB548 & PB558 Filter / Regulators	F14-F15
PB11 & PB12 Filter / Regulatos	F16-F17
PL10 Lubricators	F18-F19





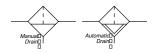
Parker



PF504 Particulate Filters – Miniature

- · Stainless steel construction handles most corrosive environments
- Fluorocarbon seals standard
- Meets NACE specifications MR-01-75/ISO 15156
- 1/8" female threaded drain
- 1/4" port (NPT, BSPP)

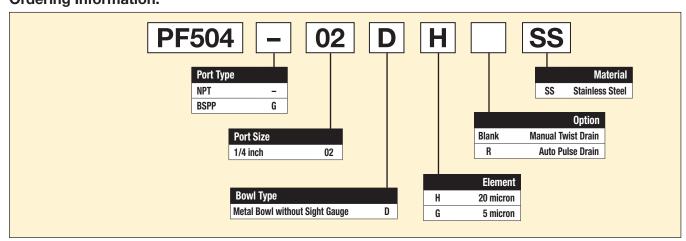


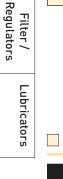


Port Size	Description	Part Number
1/4"	Twist Drain, NPT	PF504-02DHSS
1/4"	Auto Pulse Drain, NPT	PF504-02DHRSS

Operating information		
Operating pressure: Twist drain Auto pulse drain	0 to 300 psig (0 to 20.7 bar) 10 to 175 psig (0 to 12 bar)	
Operating temperature: Twist drain Auto pulse drain	0°F to 180°F (-18°C to 82°C) 32°F to 150°F (0°C to 66°C)	
Flow capacity [†] :	23 scfm (10.9 dm ³ /s, ANR)	
Bowl capacity:	1.0 oz.	
Filter rating:	20 micron	
Sump capacity:	0.4 oz.	
Weight:	0.6 lb (0.27 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Ordering Information:





F

Stainless Steel Products

Filters

Coalescers

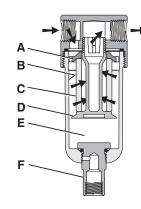
Regulators

Filter /



Catalog 0700P-8 Miniature Particulate Filter

Operation

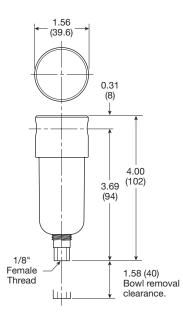


First Stage Filtration:

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 are then carried down the bowl wall by the force of gravity. The baffle (D) separates the lower portion of the bowl into a "quiet zone" (E) where the removed liquid and particles collect, unaffected by the swirling air, and are therefore not reentrained into the flowing air.

Second Stage Filtration:

After liquids and large particles are removed in the first stages of filtration, the air flows through element **(C)** where smaller particles are filtered out. The filtered air then passes downstream. Collected liquids and particles in the "quiet zone" **(E)** should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by unscrewing the drain valve **(F)** slightly until the liquid begins to drain.



Inches (mm)



Stainless Steel

Air Preparation Products

Material Specifications

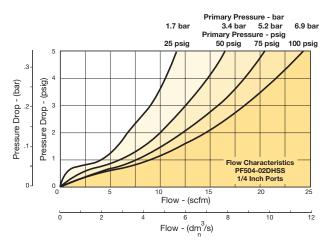
Body	316 stainless steel
Bowls	316 stainless steel
Deflector	Acetal
Drain	316 stainless steel
Element holder	Acetal
Filter element	Polyethylene
Seals	Fluorocarbon

Repair and Service Kits

Auto pulse drain	RK504SY-SS
Manual twist drain (small, old)	SA600Y7-1SS
Manual twist drain (large, new)	SAP05481
5 micron element	EK504VY
20 micron element	EK504Y
Pipe nipple, 1/4" 316 stainless steel	1/4 FF-SS

Flow Charts

PF504 1/4" Filter



Lubricators





For inventory, lead times, and kit lookup, visit www.pdnplu.com

F3

PF10 Particulate Filters – Standard

- · Stainless steel construction handles most corrosive environments
- Fluorocarbon seals standard
- Meets NACE specifications MR-01-75/ISO 15156
- 1/8" female threaded drain
- 1/2" port (NPT, BSPP)

F

Stainless Steel Products

Regulators

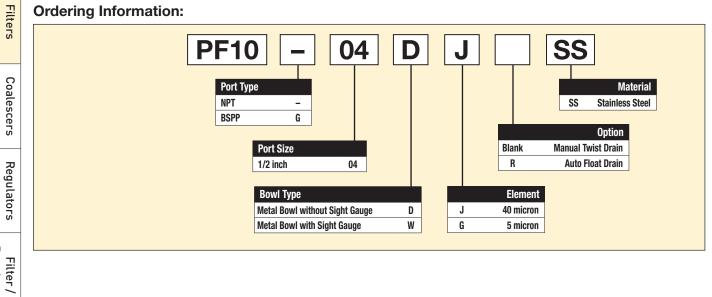
Lubricators



	Port Size	Description	Part Number
	1/2"	Twist Drain, with Sight Gauge, NPT	PF10-04WJSS
	1/2"	Auto Float Drain, with Sight Gauge, NPT	PF10-04WJRSS

Operating information		
Operating pressure: Twist drain, no sight gauge Twist drain, sight gauge Auto float drain	0 to 300 psig (0 to 20.7 bar) 0 to 250 psig (0 to 17.2 bar) 10 to 175 psig (0 to 12 bar)	
Operating temperature: Twist drain, no sight gauge Twist drain, sight gauge Auto float drain	0°F to 180°F (-18°C to 82°C) 0°F to 150°F (-18°C to 66°C) 32°F to 150°F (0°C to 66°C)	
Flow capacity [†] :	70 scfm (33 dm ³ /s, ANR)	
Bowl capacity:	4.0 oz.	
Filter rating:	40 micron	
Sump capacity:	1.7 oz.	
Weight:	1.9 lb (0.85 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Ordering Information:

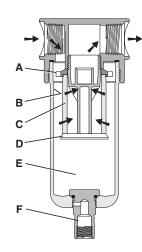


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Catalog 0700P-8 Standard Particulate Filter

Operation

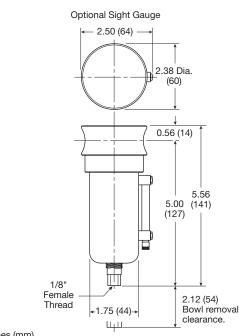


First Stage Filtration:

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 are then carried down the bowl wall by the force of gravity. The baffle (D) separates the lower portion of the bowl into a "quiet zone" (E) where the removed liquid and particles collect, unaffected by the swirling air, and are therefore not reentrained into the flowing air.

Second Stage Filtration:

After liquids and large particles are removed in the first stages of filtration, the air flows through element **(C)** where smaller particles are filtered out. The filtered air then passes downstream. Collected liquids and particles in the "quiet zone" **(E)** should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by unscrewing the drain valve **(F)** slightly until the liquid begins to drain.



Inches (mm)



Air Preparation Products Stainless Steel

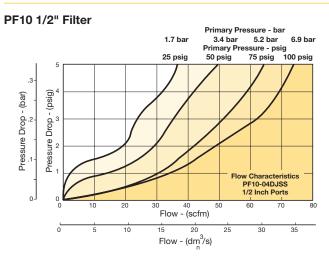
Material Specifications

Body	316 stainless steel
Bowls	316 stainless steel
Deflector	Acetal
Drain	316 stainless steel
Element holder	Acetal
Filter element	Polyethylene
Seals	Fluorocarbon
Sight gauge	lsoplast

Repair and Service Kits

•	
Automatic float drain	SA10MDSS
Manual twist drain (small, old)	SA600Y7-1SS
Manual twist drain (large, new)	SAP05481
40 micron element	EK55J
5 micron element	EK55G
Pipe nipple, 1/2" 316 stainless steel	616A28-SS

Flow Charts



Lubricators

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



F5

PF501 Coalescing Filters – Miniature

- · Stainless steel construction handles most corrosive environments
- Meets NACE specifications MR-01-75/ISO 15156
- 1/8" female threaded drain
- 1/4" port (NPT, BSPP)



Port Size	Description	Part Number
1/4"	Twist Drain, NPT	PF501-02DHSS
1/4"	Auto Pulse Drain, NPT	PF501-02DHRSS



Operating information Operating pressure: Twist drain 0 to 300 psig (0 to 20.7 bar) Auto pulse drain 10 to 175 psig (0 to 12 bar) Operating temperature: 0°F to 180°F (-18°C to 82°C) Twist drain 32°F to 150°F (0°C to 66°C) Auto pulse drain Flow capacity[†]: 16 scfm (7.6 dm³/s, ANR) Bowl capacity: 1.0 oz. Filter rating: 0.01 micron Sump capacity: 0.4 oz. Weight: 0.6 lb (0.27 kg) Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C) [†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig

pressure drop.

Ordering Information:

Stainless Steel Products

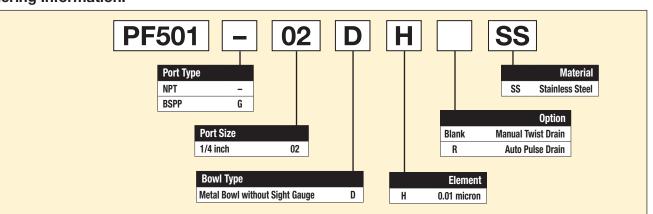
Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

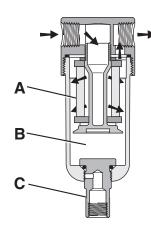




F6

Catalog 0700P-8 Miniature Coalescing Filter

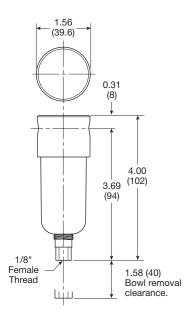
Operation



The contaminated air enters the element interior and is forced through a thick membrane (A) of "borosilicate" glass fibers coated with epoxy. Flow then passes through the element, and at this stage 99.97% of the sub micronic particles have been removed from the air stream. The tiny droplets coalesce together and are collected from the filter element by the outer drain layer.

The clean, filtered air now passes through 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" (B) should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by unscrewing the drain valve (C) slightly until the liquid begins to drain.



lookup, visit www.pdnplu.com

Inches (mm)

Air Preparation Products Stainless Steel

Material Specifications

Filter element Seals	Borosilicate Fiber Fluorocarbon
Element holder	Acetal
Drain	316 stainless steel
Bowls	316 stainless steel
Body	316 stainless steel

Repair and Service Kits

Auto pulse drain	RK504SY-SS
Manual twist drain (small, old)	SA600Y7-1SS
Manual twist drain (large, new)	SAP05481
0.01 micron element	EKF501H
Pipe nipple, 1/4" 316 stainless steel	1/4 FF-SS

Flow Charts

PF501 1/4" Coalescing Filter Primary Pressure - ba 2.4 bar 10.3 bar 6.2 bar Primary Pressure psig 35 psig , 150 psig 90 psia 10 c .6 8 Pressure Drop - (psig) Pressure Drop - (bar) 7 6 5 4 3 Flow Characteristics PF501-02DHSS 1/4 Inch Ports 00 0. 25 30 Flow - (scfm) 0 Flow - (dm³/s)

Regulators Coalescers Filters Stainless Steel Products

Filter / Regulators

Lubricators

F

F7

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

-Parker



For inventory, lead times, and kit

Operating information

PF11 Coalescing Filters – Standard

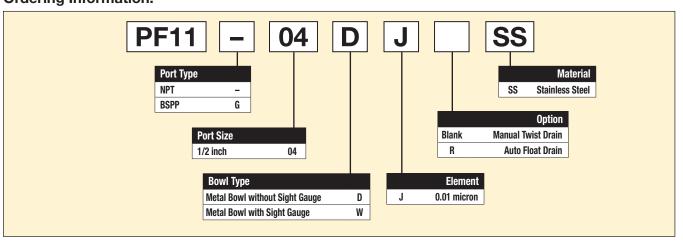
- Stainless steel construction handles most corrosive environments
- Meets NACE specifications MR-01-75/ISO 15156
- 1/8" female threaded drain
- 1/2" port (NPT, BSPP)



Port Size	Description	Part Number
1/2"	Twist Drain, with Sight Gauge, NPT	PF11-04WJSS
1/2"	Auto Float Drain, with Sight Gauge, NPT	PF11-04WJRSS

Operating pressure: Twist drain, no sight gauge Twist drain, sight gauge Auto float drain	0 to 300 psig (0 to 20.7 bar) 0 to 250 psig (0 to 17.2 bar) 10 to 175 psig (0 to 12 bar)	
Operating temperature: Twist drain, no sight gauge Twist drain, sight gauge Auto float drain	0°F to 180°F (-18°C to 82°C) 0°F to 150°F (-18°C to 66°C) 32°F to 150°F (0°C to 66°C)	
Flow capacity [†] :	45 scfm (21.2 dm ³ /s, ANR)	
Bowl capacity:	4.0 oz.	
Filter rating:	0.01 micron	
Sump capacity:	1.7 oz.	
Weight:	1.9 lb (0.85 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Ordering Information:





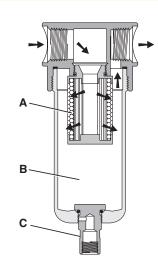
Stainless Steel Products

Filters



Catalog 0700P-8 Standard Coalescing Filter

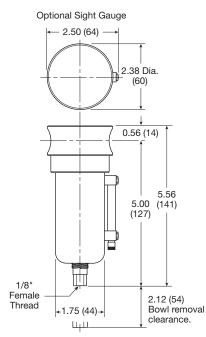
Operation



The contaminated air enters the element interior and is forced through a thick membrane **(A)** of "borosilicate" glass fibers coated with epoxy. Flow then passes through the element, and at this stage 99.9997% of the sub micronic particles have been removed from the air stream. The tiny droplets coalesce together and are collected from the filter element by the outer drain layer.

The clean, filtered air now passes through 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" (**B**) should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by unscrewing the drain valve (**C**) slightly until the liquid begins to drain.



Inches (mm)

C



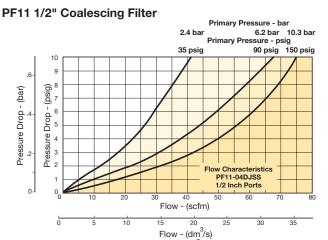
Material Specifications

Body	316 Stainless Steel
Bowls	316 Stainless Steel
Drain	316 Stainless Steel
Element holder	Acetal
Filter element	Borosilicate Fiber
Seals	Fluorocarbon
Sight gauge	Isoplast

Repair and Service Kits

Automatic float drain	SA10MDSS
0.01 micron element	EKF71
Pipe nipple, 1/2" 316 stainless steel	616A28-SS

Flow Charts



For inventory, lead times, and kit

lookup, visit www.pdnplu.com

PR354, PR364 Regulator – Miniature

Part

Number

PR364-02CSS

PR354-02CSS

- Stainless steel construction handles most corrosive environments
- · Large diaphragm to valve area ratio for precise regulation and high flow capacity
- Meets NACE specifications MR-01-75/ISO 15156
- 1/4" port (NPT, BSPP)

Description

Standard Knob, NPT

Stainless Steel, NPT

Port

Size

1/4"

1/4"

F

Stainless Steel Products

Filters

Coalescers

Regulators

Regulators

Filter /





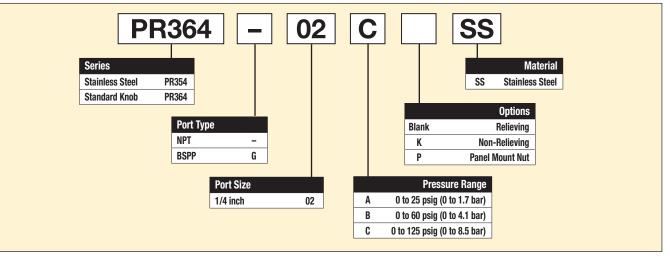
PR364

PR354

Operating informatio	n	
Operating pressure: PR354 PR364	300 psig (20.7 bar) 300 psig (20.7 bar)	
Operating temperature: PR354 PR364	0°F to 180°F (-18°C to 82°C) 0°F to 150°F (-18°C to 66°C)	
Flow capacity [†] :	12 scfm (5.7 dm ³ /s, ANR)	
Gauge port:	1/4 inch	
Operation:	Fluorocarbon diaphragm	
Weight:	0.5 lb (0.23 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow		

secondary setting and 15 psig pressure drop.

Ordering Information:

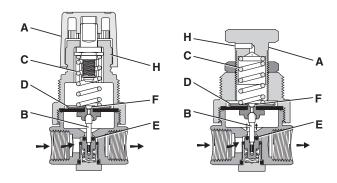






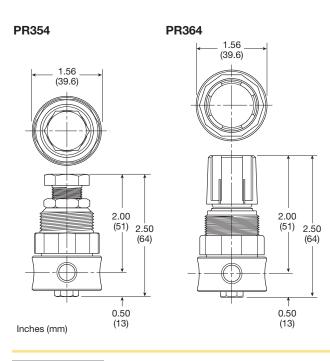
Catalog 0700P-8 Miniature Regulators

Operation



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

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



Air Preparation Products Stainless Steel

Material Specifications

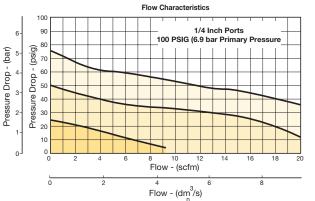
Adjustment mechanism / springs	316 stainless steel
Adjusting knob (PR354)	316 Stainless Steel
Adjusting knob (PR364)	Polypropylene
Body	316 stainless steel
Bonnet (PR354)	316 stainless steel
Bonnet (PR364)	Acetal
Bottom plug	316 stainless steel
Poppet	316 stainless steel
Seals	Fluorocarbon

Repair and Service Kits

-	
PR354 bonnet kit	CKR354YSS
PR364 bonnet kit (knob included)	CKR364Y-1SS
1-1/2" face, 160 psig (0 to 1100 kPa),	
gauge (stainless)	K4515N14160SS
Panel mount bracket (Stainless)	161X57-SS
Panel mount nut, stainless	R05X51-SS
Panel mount nut, plastic	R05X51-P
Pipe nipple, 1/4" 316 stainless steel	1/4 FF-SS
Relieving	RKR364YSS
Non-relieving	RKR364KYSS
0-25 psig spring	SPR-375-2-SS
0-60 psig spring	SPR-376-1-SS
0-125 psig spring	SPR-377-1-SS

Flow Charts

PR354, PR364 1/4" Regulator



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.

Filters

Regulators Filter /

Regulators



For inventory, lead times, and kit lookup, visit www.pdnplu.com

F11

PR10, PR11 Regulator – Standard

Part

Number

PR10-04CSS

PR11-04CSS

- Stainless steel construction handles most corrosive environments
- Large diaphragm to valve area ratio for precise regulation and high flow capacity
- Meets NACE specifications MR-01-75/ISO 15156
- Low temperature version available
- 1/2" port (NPT, BSPP)

Description

Standard Knob, NPT

Stainless Steel T-Handle, NPT

Port

Size

1/2"

1/2"

Stainless Steel Products

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators



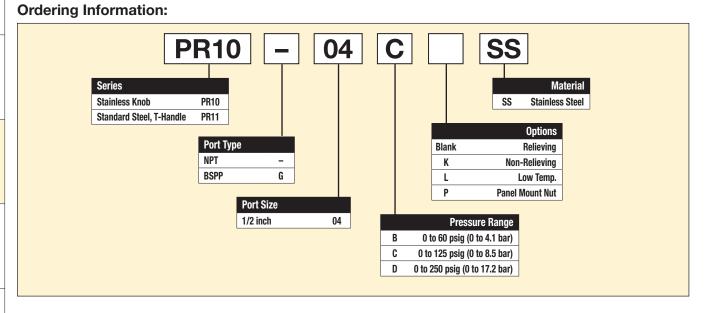


PR11

PR10

Operating information		
Operating pressure: PR10 PR11	300 psig (20.7 bar) 300 psig (20.7 bar)	
Operating temperature: PR10 PR11 Option "L" minimum	0°F to 150°F (-18°C to 66°C) 0°F to 180°F (-18°C to 82°C) -40°F (-40°C)	
Flow capacity [†] :	80 scfm (37.8 dm ³ /s, ANR)	
Gauge port:	1/4 inch	
Operation:	Fluorocarbon diaphragm	
Weight:	1.79 lb (0.81 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		
[†] scfm = Standard cubic feet per minute at 100 psig inlet. 75 psig no flow		

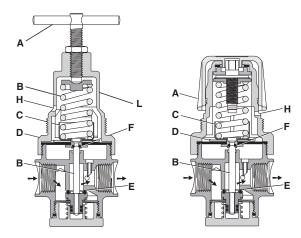
* scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flo secondary setting and 15 psig pressure drop.





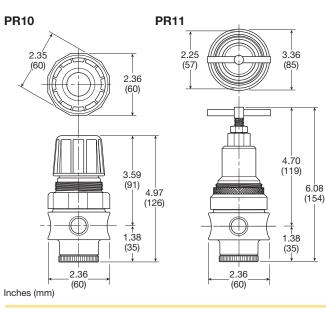
Catalog 0700P-8 **Standard Regulators**

Operation



With the adjusting knob / T-Handle (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 diaphragm (D) and the valve poppet assembly (B) to move downward allowing flow across the seat area (E) created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm (D) and offsets the load of spring (C). As downstream pressure rises, poppet assembly (B) and diaphragm (D) move upward until the area (E) is closed and the load of the spring (C) and pressure under diaphragm (D) are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm (D). The load of control spring (C) now causes the poppet assembly to move downward opening seat area (E) allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening (E).

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



Air Preparation Products Stainless Steel

Material Specifications

Adjustment mechanism / springs	316 stainless steel
Body	316 stainless steel
Bonnet / tee handle (PR11)	316 stainless steel
Bonnet / knob (PR10)	Acetal
Bottom plug	316 stainless steel
Poppet	316 stainless steel
Seals	Fluorocarbon

Repair and Service Kits

•	
PR10 bonnet kit (knob included)	CKR10YSS
PR11 bonnet kit	CKR11YSS
2" Face 160 psig (0 to 1100 kPa),	
gauge (stainless)	K4520N14160SS
Panel mount bracket (stainless)	R10Y57-SS
Panel mount nut, stainless	R10X51-SS
Panel mount nut, plastic	R10X51-P
Pipe nipple, 1/2" 316 stainless steel	616A28-SS
Relieving	RKR10YSS
Non-relieving	RKR10KYSS
0-60 psig spring	SPR-388-1-SS
0-125 psig spring	SPR-389-1-SS
0-250 psig spring	SPR-390-1-SS

Filters

Coalescers

Regulators

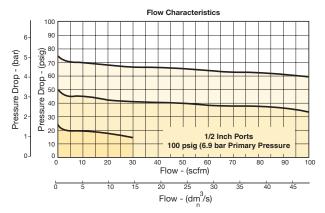
Regulators

Filter /

Lubricators

Flow Charts

PR10 1/2" Regulator



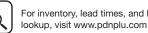
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating.

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.

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





For inventory, lead times, and kit

6.08

PB548, PB558 Filter / Regulator – Miniature

- Stainless steel construction handles most corrosive environments
- Large diaphragm to valve area ratio for precise regulation and high flow capacity
- 1/8" female threaded drain
- Meets NACE specifications MR-01-75/ISO 15156
- 1/4" port (NPT, BSPP)

F

Stainless Steel Products

Filters

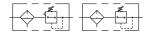
Coalescers

Regulators

Regulators

Filter /

Lubricators



Port Size	Description	Part Number
1/4"	Standard Knob, NPT	PB548-02DHCSS
1/4"	Stainless Steel, NPT	PB558-02DHCSS

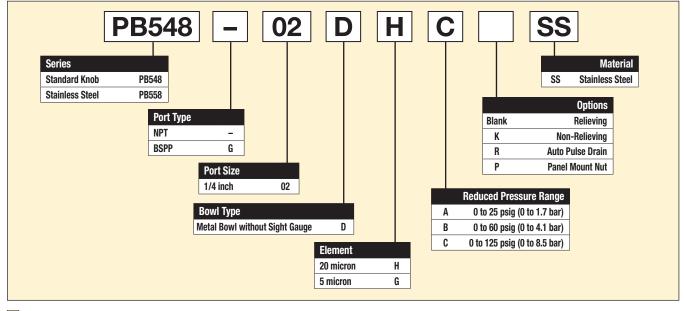


Operating information

Operating pressure: PB548 PB558 Auto pulse drain	300 psig (20.7 bar) 300 psig (20.7 bar) 10 to 175 psig (0 to 12 bar)	
Operating temperature: PB548 PB558 Auto pulse drain	0°F to 150°F (-18°C to 66°C) 0°F to 180°F (-18°C to 82°C) 32°F to 150°F (0°C to 66°C)	
Flow capacity [†] :	12 scfm (5.7 dm ³ /s, ANR)	
Bowl capacity:	1.0 oz.	
Filter rating:	20 micron	
Sump capacity:	0.4 oz.	
Gauge port:	1/4 inch	
Operation:	Fluorocarbon diaphragm	
Weight:	0.6 lb (0.27 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		

[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 15 psig pressure drop.

Ordering Information:

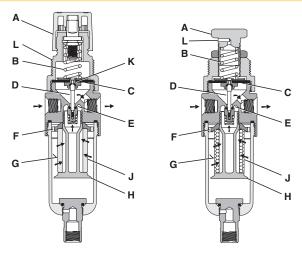


Most popular.



Catalog 0700P-8 Miniature Filter / Regulator

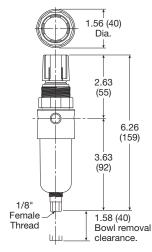
Operation



Turning the adjusting knob (A) clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration". Air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit. Pressure in the downstream line is sensed below the diaphragm (C) and offsets the load of spring (B). When downstream pressure reaches the set-point, poppet valve assembly (D) and diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). (This occurs in the standard relieving type filter/regulators only.)

PB558

PB548



1.56 (40) Dia. 2.17 (55) 5.80 (147) 3.63 (92) 1/8" Female Thread Bowl remov



Inches (mm)

Air Preparation Products Stainless Steel

Material Specifications

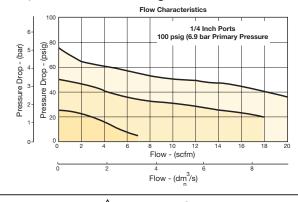
Adjustment mechanism / springs	316 stainless steel
Body	316 Stainless steel
Bonnet (PB548)	Acetal
Bonnet (PB558)	316 stainless steel
Bottom plug	316 stainless steel
Knob (PB548)	Polypropylene
Knob (PB558)	316 stainless steel
Poppet	316 stainless steel
Seals	Fluorocarbon

Repair and Service Kits

PB558 bonnet kit (knob included)	CKR354YSS
PB548 bonnet kit (knob included)	CKR364Y-1SS
Automatic pulse drain	RK504SY-SS
Manual twist drain (small, old)	SA600Y7-1SS
Manual twist drain (large, new)	SAP05481
5 micron element	EK504VY
20 micron element	EK504Y
1-1/2" face 160 psig (0 to 1100 kPa),	
gauge (stainless)	K4515N14160SS
Panel mount bracket (stainless)	161X57-SS
Panel mount nut, stainless	R05X51-SS
Panel mount nut, plastic	R05X51-P
Pipe nipple, 1/4" 316 stainless steel	1/4 FF-SS
Relieving	RK549YSS
Non-relieving	RK548YSS
0-25 psig spring	SPR-375-2-SS
0-60 psig spring	SPR-376-1-SS
0-125 psig spring	SPR-377-1-SS

Flow Charts

PB548, PB558 1/4" Filter / Regulator



🗥 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. Filters

Coalescers

Regulators

Filter / Regulators



For inventory, lead times, and kit lookup, visit www.pdnplu.com

PB11, PB12 Filter / Regulator – Standard

- Stainless steel construction handles most corrosive environments
- Large diaphragm to valve area ratio for precise regulation and high flow capacity
- 1/8" female threaded drain
- Meets NACE specifications MR-01-75/ISO-15156
- Low temperature version available
- 1/2" port (NPT, BSPP)

Stainless Steel Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators



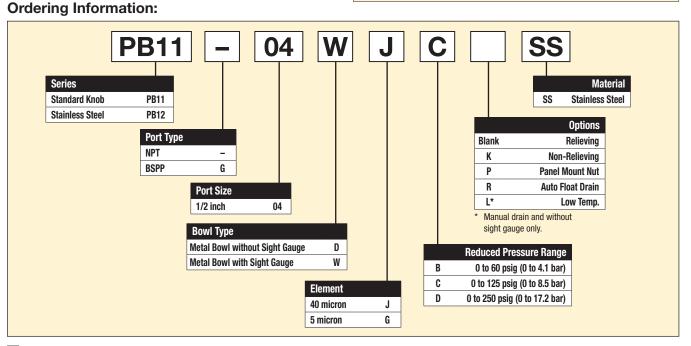


Port Size	Description	Part Number
With S	Sight Gauge, NPT	
1/2"	Standard Knob, Twist Drain	PB11-04WJCSS
1/2"	Standard Knob, Auto Float Drain	PB11-04WJCRSS
1/2"	Stainless Steel T-Handle, Twist Drain	PB12-04WJCSS
1/2"	Stainless Steel T-Handle, Auto Float Drain	PB12-04WJCRSS

Operating information

Operating pressure: PB11, PB12 Auto float drain	300 psig (20.7 bar) 15 to 175 psig (1 to 12 bar)	
Operating temperature: PB11 PB12, no sight gauge PB12, sight gauge Auto float drain	0°F to 150°F (-18°C to 66°C) 0°F to 180°F (-18°C to 82°C) 0°F to 150°F (-18°C to 66°C) 32°F to 150°F (0°C to 66°C)	
Flow capacity [†] :	72 scfm (34 dm ³ /s, ANR)	
Bowl capacity:	4.0 oz.	
Filter rating:	40 micron	
Sump capacity:	1.7 oz.	
Gauge port:	1/4 inch	
Operation:	Fluorocarbon diaphragm	
Weight:	2.42 lb (1.09 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		

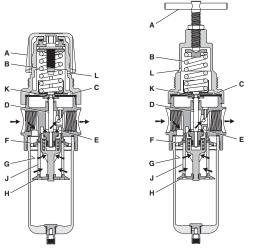
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 15 psig pressure drop.



Most popular.



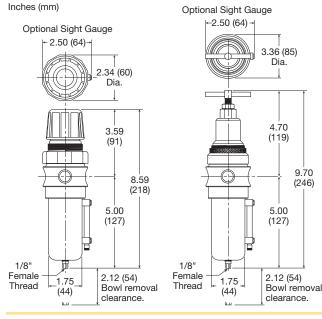
Operation



Turning the adjusting knob / T-Handle (A) clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration". Air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit. Pressure in the downstream line is sensed below the diaphragm (C) and offsets the load of spring (B). When downstream pressure reaches the set-point, poppet valve assembly (D) and diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). (This occurs in the standard relieving type filter/regulators only.)

PB12

PB11





Air Preparation Products Stainless Steel

Material Specifications

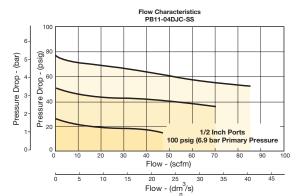
Adjustment mechanism / springs	316 stainless steel
Body	316 stainless steel
Bonnet / knob (PB11)	Acetal
Bonnet / tee handle (PB12)	316 stainless steel
Bottom plug	316 stainless steel
Poppet	316 stainless steel
Seals	Fluorocarbon
Sight gauge	Isoplast

Repair and Service Kits

-	
PB11 bonnet kit (knob included)	CKR10YSS
PB12 bonnet kit	CKR11YSS
Auto float drain	SA10MDSS
Manual twist drain (small, old)	SA600Y7-1SS
Manual twist drain (large, new)	SAP05481
40 micron element	EKF10Y
5 micron element	EKF10VY
2" face 160 psig (0 to 1100 kPa),	
gauge (stainless)	K4520N14160SS
Panel mount bracket (stainless)	R10Y57-SS
Panel mount nut, stainless	R10X51-SS
Panel mount nut, plastic	R10X51-P
Pipe nipple, 1/2" 316 stainless steel	616A28-SS
Relieving	RKR10YSS
Non-relieving	RKR10KYSS
0-60 psig spring	SPR-388-1-SS
0-125 psig spring	SPR-389-1-SS
0-250 psig spring	SPR-390-1-SS
-	

Flow Charts

PB11 1/2" Filter / Regulator



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

CAUTION:

F17

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.

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

Products Stainless Steel

Filters

Regulators

Lubricators

PL10 Lubricators – Standard

- Stainless steel construction handles most corrosive environments
- 1/8" female threaded drain
- Fillable under pressure
- Meets NACE specifications MR-01-75/ISO 15156
- 1/2" port (NPT, BSPP)



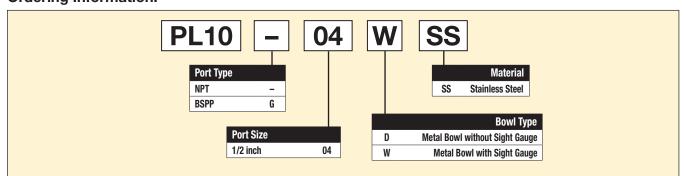
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I	

Port Size	Description	Part Number
1/2"	Twist Drain, with Sight Gauge, NPT	PL10-04WSS
1/2"	Twist Drain, without Sight Gauge, NPT	PL10-04DSS

Operating information

Operating pressure: Metal bowl, no sight gauge Metal bowl, sight gauge	0 to 300 psig (0 to 20.7 bar) 0 to 250 psig (0 to 17.2 bar)	
Operating temperature: Metal bowl, no sight gauge Metal bowl, sight gauge	0°F to 150°F (-18°C to 66°C) 0°F to 150°F (-18°C to 66°C)	
Flow capacity [†] :	100 scfm (47.2 dm ³ /s, ANR)	
Bowl capacity:	4.0 oz.	
Weight:	1.9 lb (0.85 kg)	
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)		
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Ordering Information:



F

Stainless Steel Products

Filters

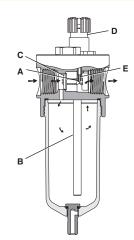
Coalescers

Regulators

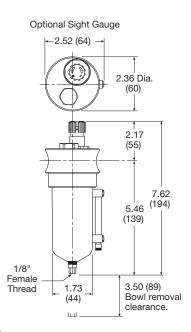


Catalog 0700P-8 Standard Lubricator

Operation



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



Inches (mm)

Air Preparation Products Stainless Steel

Material Specifications

Body	316 stainless steel
Bowl	316 stainless steel
Dip tube	316 stainless steel
Drain	316 stainless steel
Fill plug	316 stainless steel
Seals	Fluorocarbon
Sight dome	Nylon
Sight gauge	lsoplast

Repair and Service Kits

Manual twist drain (small, old)	SA600Y7-1SS
Manual twist drain (large, new)	SAP05481
Pipe nipple, 1/2" 316 stainless steel	616A28-SS
Sight dome kit, (old)	RKL10SS
Sight dome kit, (new)	PS740N

Filters

Coalescers

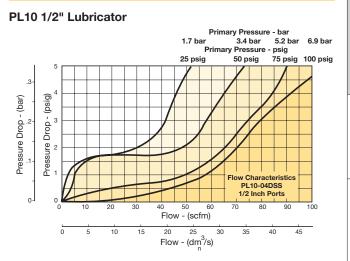
Regulators

Filter / Regulators

Lubricators

Stainless Steel Products

Flow Charts











Catalog 0700P-8 Parker Pneumatic



Air Preparation Products Contents - www.parker.com/pneu/frl

Air Preparation Products P3N Series

P3NF Particulate Filters	G2-G3
P3NF Coalescing Filters	G4-G5
P3NR Regulators	G6-G7
P3NR Pilot Controlled Regulators	G8-G9
P3NE Filter / Regulators	G10-G11
P3NL Lubricators	G12-G13
P3NC Modular Combinations	G14-G15

G





P3NF Particulate Filters – Hi-Flow

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies
- Excellent water removal efficiency
- Metal bowl with sight gauge

Description

Drain

Drain

Drain

Port

Size

3/4"

3/4"

1"

1"

1-1/2" #

P3N Products

G

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

Combinations

- Large filter element surface guarantees low pressure drop and increased element life
- Twist drain as standard, optional auto float drain

Metal Bowl, Sight Gauge, Twist Drain Metal Bowl, Sight Gauge, Auto Float

Metal Bowl, Sight Gauge, Twist Drain

Metal Bowl, Sight Gauge, Auto Float

Metal Bowl, Sight Gauge, Auto Float

1-1/2" # Metal Bowl, Sight Gauge, Twist Drain

• 3/4", 1", 1-1/2" port, NPT & BSPP



Part Number

P3NFA96GSM

P3NFA96GSA

P3NFA98GSM

P3NFA98GSA

P3NFA9PGSM

P3NFA9PGSA

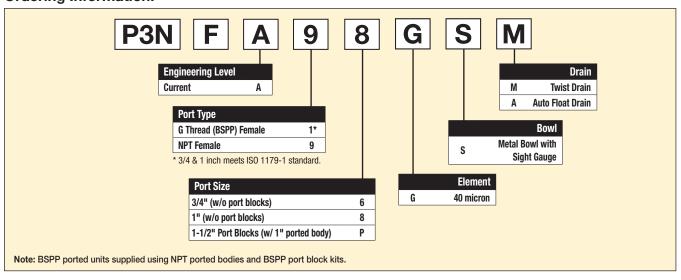


Operating information

Supply pressure (max	:):	0 to 250 psig (0 to 17.2 bar)
Operating temperatur	e:	32°F to 175°F (0°C to 80°C)
Flow capacity [†] : High flow	3/4" 1" 1-1/2"	270 scfm (127.4 dm ³ /s, ANR) 300 scfm (141.6 dm ³ /s, ANR) 300 scfm (141.6 dm ³ /s, ANR)
Bowl capacity:		18.0 oz.
Sump capacity:		6.8 oz.
Weight:	3/4", 1" 1-1/2" [#]	3.5 lb (1.6 kg) 4.6 lb (2.1 kg)
 t scfm = Standard cubic 5 psig pressure drop, 		1 0
# 1" port body with 1-1/	2 port block	

[#] 1" port body with 1-1/2" port block.

Ordering Information:





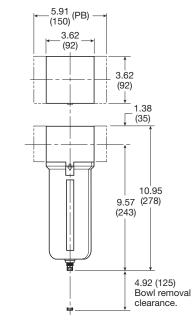
Material Specifications

Body, bowl	Aluminum
Deflector	Plastic
Drain	Plastic
Element	Plastic
Adsorber (optional)	Activated charcoal
Seals	Nitrile
Sight gauge	Polyamide (nylon)

Repair and Service Kits

Metal bowl / sight gauge / auto float drain	P3NKA00BSA
Metal bowl / sight gauge / twist drain	P3NKA00BSM
Bowl latch kit	C11A33
DPI replacement kit	PS781P
Automatic float drain	PS506P
Twist drain	PS512P
40 micron element	P3NKA00ESG
5 micron element	P3NKA00ESE
Adsorber element	P3NKA00ESA
Mounting bracket kit*	P3NKA00MW
Sight gauge kit	P3NKA00PE

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

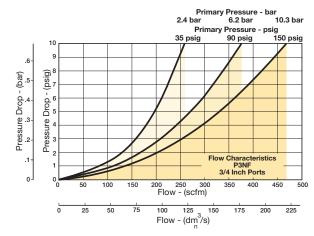


Inches (mm)

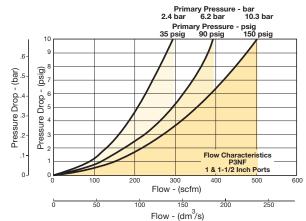
Air Preparation Products **P3N Products**

Flow Charts

P3NF 3/4" Particulate Filter



P3NF 1" & 1-1/2" Particulate Filter







Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics Filters P3N Products

Combinations

P3NF Coalescing Filters – Hi-Flow

- Port blocks (PB) available to provide 1-1/2" port extension to 1" ported bodies
- Metal bowl with sight gauge

Description

Drain

Drain

Drain

Port

Size

3/4"

3/4"

1"

1"

1-1/2" #

1-1/2" #

P3N Products

G

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

Combinations

- Large filter element surface guarantees low pressure drop and increased element life
- Twist Drain as standard, optional automatic float drain

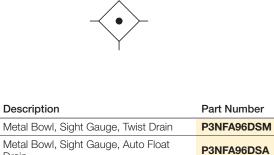
Metal Bowl, Sight Gauge, Twist Drain

Metal Bowl, Sight Gauge, Auto Float

Metal Bowl, Sight Gauge, Twist Drain Metal Bowl, Sight Gauge, Auto Float

Standard part numbers shown bold, with Grade 6 Elements. For other

• 3/4", 1", 1-1/2" # ports (NPT, BSPP)



P3NFA98DSM

P3NFA98DSA

P3NFA9PDSM

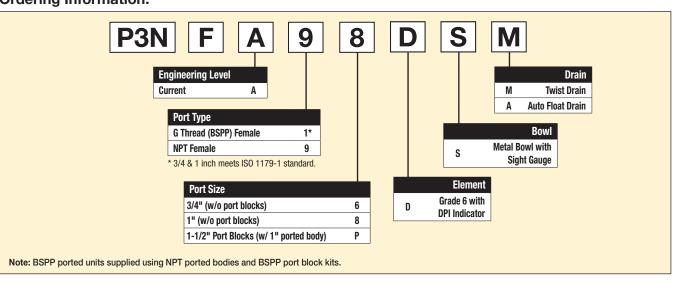
P3NFA9PDSA



Operating information		
Supply pressure (max Auto float drain	<):	0 to 250 psig (0 to 17.2 bar) 15 to 250 psig (1.0 to 17.2 bar)
Operating temperatu	re:	32°F to 175°F (0°C to 80°C)
Flow capacity†: High flow	3/4" 1" 1-1/2"	130 scfm (61 dm ³ /s, ANR) 140 scfm (66 dm ³ /s, ANR) 140 scfm (66 dm ³ /s, ANR)
Bowl capacity:		18.0 oz.
Sump capacity:		6.8 oz.
Weight:	3/4", 1" 1-1/2" [#]	3.5 lb (1.6 kg) 4.6 lb (2.1 kg)
[†] scfm = Standard cubi pressure drop	c feet per mir	nute at 90 psig inlet and 5 psig
# 1" port body with 1-1.	/2 port block	

Ordering Information:

models refer to ordering information below. # 1" port body with 1-1/2" port block.





Material Specifications

-	
Body, bowl	Aluminum
Deflector	Plastic
Drain	Plastic
Element	Borosilicate & felt glass fibers
Largest aerosol particle passed (Grade 6)	0.01 micron
Largest solid particle passed (Grade 6)	0.30 micron
Seals	Nitrile
Sight gauge	Polyamide (nylon)

Repair and Service Kits

-	
Metal bowl / sight gauge / automatic float drain	P3NKA00BSA
Metal bowl / sight gauge / twist drain	P3NKA00BSM
Bowl latch kit	C11A33
DPI replacement kit	PS781P
Automatic float drain kit	PS506P
Twist drain kit	PS512P
Grade 6 element (standard)	P3NKA00ESCB
Sight gauge kit	P3NKA00PE
Mounting bracket kit*	P3NKA00MW

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

5.91 (150) (PB)

3.62

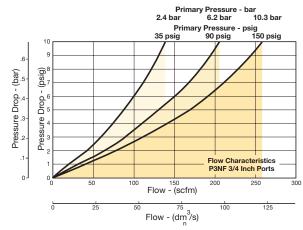
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Air Preparation Products **P3N Products**

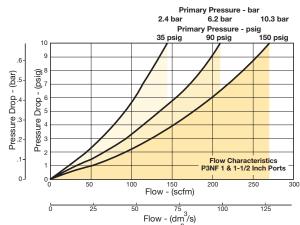
Flow Charts

Grade 6 Element

P3NF 3/4" Coalescing Filter



P3NF 1" & 1-1/2" Coalescing Filter



G

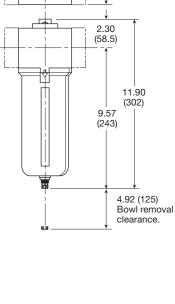
Lubricators

Combinations

For inventory, lead times, and kit lookup, visit www.pdnplu.com

G5

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



3.62

(92)



P3NR Regulators – Hi-Flow

- 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
- 3/4", 1", 1-1/2" ports (NPT, BSPP)



Description	Part Number
Without Gauge	P3NRA96BNN
With 160 psi Gauge	P3NRA96BNG
Without Gauge	P3NRA98BNN
With 160 psi Gauge	P3NRA98BNG
Without Gauge	P3NRA9PBNN
With 160 psi Gauge	P3NRA9PBNG
	Without Gauge With 160 psi Gauge Without Gauge With 160 psi Gauge Without Gauge

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

Ordering Information:

P3N Products

G

Filters

Coalescers

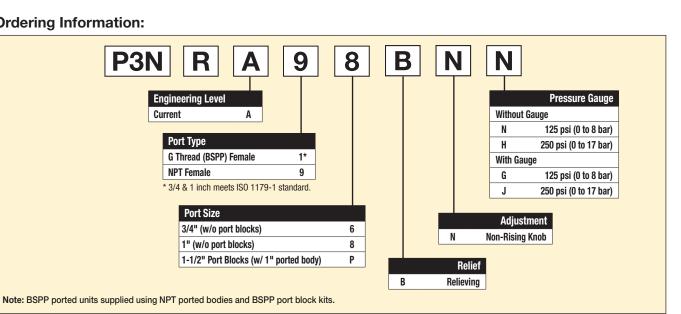
Regulators

Regulators

Filter /

Lubricators

Combinations





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-	00.0				

Supply pressure (max):		ax):	250 psig (17.2 bar)
Operating	Operating temperature:		32°F to 175°F (0°C to 80°C)
Flow capacity [†] : High flow 3/4" 1" 1-1/2"		1"	200 scfm (94.4 dm ³ /s, ANR) 300 scfm (141.6 dm ³ /s, ANR) 300 scfm (141.6 dm ³ /s, ANR)
Gauge po	rts (2):		1/4 inch
Weight:		3/4", 1" 1-1/2" #	4.2 lb (1.9 kg) 5.3 lb (2.4 kg)
	[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop		

1" port body with 1-1/2 port block



Catalog 0700P-8 Hi-Flow Regulators

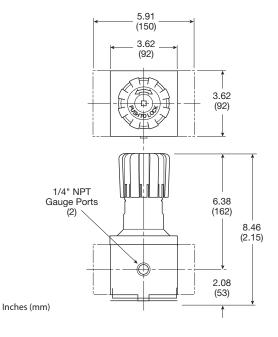
Material Specifications

-	
Adjusting stem	Steel
Body	Aluminum
Bonnet	Aluminum
Knob	Plastic
Piston	Plastic
Poppet assembly	Brass
Seals	Nitrile
Springs, poppet & control	Steel

Repair and Service Kits

-	
Control knob	P3NKA00PN
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face	
160 psig (0 70 11.0 bar), gauge	K4517N14160D
Mounting bracket kit*	P3NKA00MW
Relieving	P3NKA00RR
Non-relieving	P3NKA00RN
1-60 psig spring	C10A1304
2-125 psig spring	C10A1308
5-250 psig spring	C10A1317

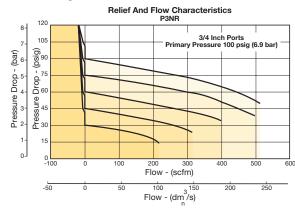
* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.



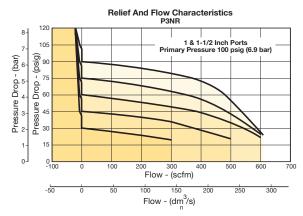
Air Preparation Products **P3N Products**

Flow Charts

P3NR 3/4" Regulator



P3NR 1" & 1-1/2" Regulator



🕂 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. G

Combinations



C

P3NR Pilot Controlled Regulator - Hi-Flow

- 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
- 3/4", 1" 1-1/2" ports (NPT, BSPP)



Description	Part Number
Without Gauge	P3NRA96BPP
Without Gauge	P3NRA98BPP
Without Gauge	P3NRA9PBPP
	Without Gauge Without Gauge

[#] 1" port body with 1-1/2" port block.

P3N Products

G

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

Combinations

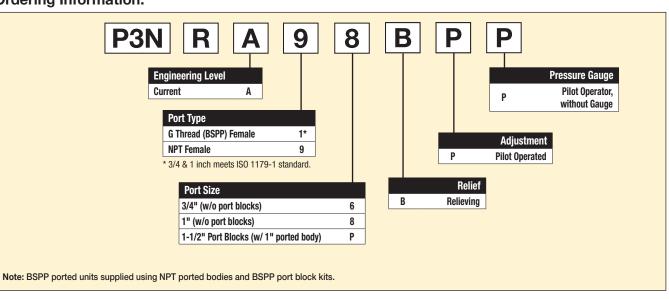


Operating information

Supply pressure (max):		250 psig (17.2 bar)	
Operating temperature:		32°F to 175°F (0°C to 80°C)	
Flow capacity [†] : High flow 3/4" 1" 1-1/2"		300 scfm (141.6 dm ³ /s, ANR) 300 scfm (141.6 dm ³ /s, ANR) 350 scfm (165.2 dm ³ /s, ANR)	
Gauge ports (2):		1/4 inch	
Weight: 3/4", 1" 1-1/2" #		3.3 lb (1.5 kg) 4.4 lb (2.0 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.			

1" port body with 1-1/2 port block

Ordering Information:





G8

Catalog 0700P-8 Hi-Flow Pilot Controlled Regulators

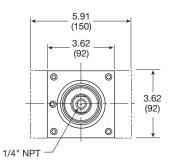
Material Specifications

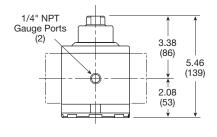
Adjusting stem	Steel
Body	Aluminum
Bonnet	Aluminum
Piston	Plastic
Poppet assembly	Brass
Seals	Nitrile
Springs – poppet	Steel

Repair and Service Kits

2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 70 11.0 bar), gauge	K4517N14160D
Mounting bracket kit*	P3NKA00MW
Relieving	P3NKA00PD

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

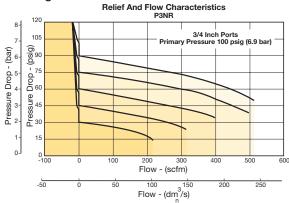




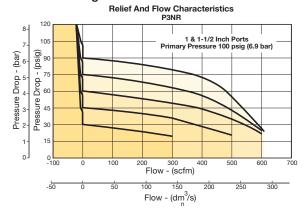
Air Preparation Products **P3N Products**

Flow Charts

P3NR 3/4" Regulator



P3NR 1" & 1-1/2" Regulator



🕂 WARNING

Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating. P3N Products

G

Filters



C

Inches (mm)

P3NE Filter / Regulator – Hi-Flow

- 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
- 3/4", 1", 1-1/2" # ports (NPT, BSPP)



P3N Products

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Combinations

Port		
Size	Description	Part Number
3/4"	Metal Bowl, Sight Gauge, Twist Drain	P3NEA96GSMBNN
3/4"	Metal Bowl, Sight Gauge, Auto Float Drain	P3NEA96GSABNN
1"	Metal Bowl, Sight Gauge, Twist Drain	P3NEA98GSMBNN
1"	Metal Bowl, Sight Gauge, Auto Float Drain	P3NEA98GSABNN
1-1/2"#	Metal Bowl, Sight Gauge, Twist Drain	P3NEA9PGSMBNN
1-1/2"#	Metal Bowl, Sight Gauge, Auto Float Drain	P3NEA9PGSABNN

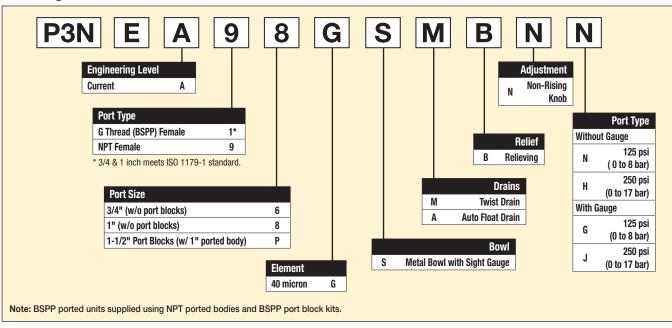
[#] 1" port body with 1-1/2" port block.

Ordering Information:



Operating information			
Supply pressure (max):		0 to 250 psig (0 to 17.2 bar)	
Operating temperature:		32°F to 175°F (0°C to 80°C)	
Flow capacity [†] : High flow 3/4" 1" 1-1/2'		250 scfm (118 dm ³ /s, ANR) 250 scfm (118 dm ³ /s, ANR) 250 scfm (118 dm ³ /s, ANR)	
Bowl capacity:		18.0 oz.	
Sump capacity:		6.8 oz.	
Weight:	3/4 1" 1-1/2"	5.3 lb (2.4 kg) 5.3 lb (2.4 kg) 6.43 lb (2.9 kg)	
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop with 40 micron element			

1" port body with 1-1/2 port block



Most popular.



Material Specifications

-	
Adjusting stem	Steel
Body, bonnet, bowl	Aluminum
Drain	Plastic
40 micron element (standard)	Plastic
5 micron element (optional)	Plastic
Adsorber element (optional)	Activated charcoal
Knob	Plastic
Piston	Plastic
Seals	Nitrile
Sight gauge	Polyamide (nylon)
Poppet & control, spring	Steel

Repair and Service Kits

Metal bowl, sight gauge / auto float drain	P3NKA00BSA
Metal bowl, sight gauge / twist drain	P3NKA00BSM
Bowl latch kit	C11A33
Control knob	P3NKA00PN
Auto float drain	PS506P
Twist drain	PS512P
40 micron element	P3NKA00ESG
5 micron element	P3NKA00ESE
Adsorber element	P3NKA00ESA
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face	
160 psig (0 70 11.0 bar), gauge	K4517N14160D
Mounting bracket kit*	P3NKA00MW
Relieving	P3NKA00RR
Non-relieving	P3NKA00RN
Sight gauge kit	P3NKA00PE
1-60 psig spring	C10A1304
2-125 psig spring	C10A1308
5-250 psig spring	C10A1317
-	

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

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

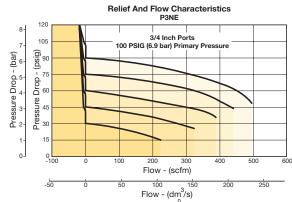
CAUTION:

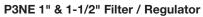
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

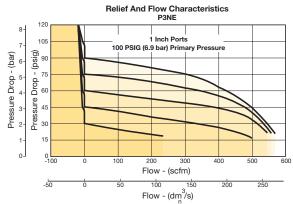
Air Preparation Products **P3N Products**

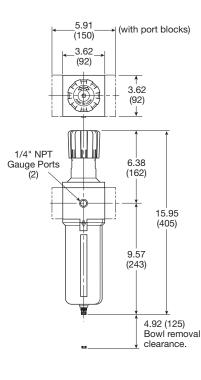
Flow Charts

P3NE 3/4" Filter / Regulator











P3N Products

G

Filters

Coalescers



For inventory, lead times, and kit lookup, visit www.pdnplu.com

G11

Inches (mm)

Parker Hannifin Corporation Pneumatic Division

Richland, Michigan www.parker.com/pneumatics

P3NL Mist Lubricators – Hi-Flow

- 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
- Integral 3/4", 1" ports (NPT, BSPP)



Port Size	Description	Part Number	
3/4"	Metal Bowl, Sight Gauge, No Drain	P3NLA96LSN	
1"	Metal Bowl, Sight Gauge, No Drain	P3NLA98LSN	
1-1/2" #	Metal Bowl, Sight Gauge, No Drain	P3NLA9PLSN	
[#] 1" Port Body with 1-1/2" Port Block.			



Operating information Supply pressure (max): 250 psig (17.2 bar) Operating temperature: 32°F to 175°F (0°C to 80°C) Flow capacity[†]: 3/4" High flow 240 scfm (113.3 dm³/s, ANR) 1" 250 scfm (118 dm³/s, ANR) 1-1/2" 260 scfm (122.7 dm³/s, ANR) Minimum flow 6.6 scfm (3.1 dm³/s, ANR) at 100 psig (6.9 bar) Bowl capacity: 18.0 oz. Weight: 3/4", 1" 3.5 lb (1.6 kg) 1-1/2" # 4.6 lb (2.1 kg) [†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

1" port body with 1-1/2 port block

Ordering Information:

P3N Products

C

Filters

Coalescers

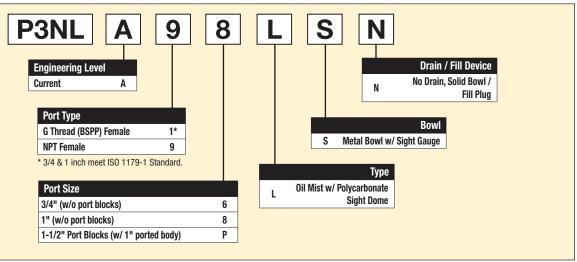
Regulators

Regulators

Filter /

Lubricators

Combinations



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

Petroleum based oil of 100 to 200 SUS 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.)



Catalog 0700P-8 **Hi-Flow Mist Lubricators**

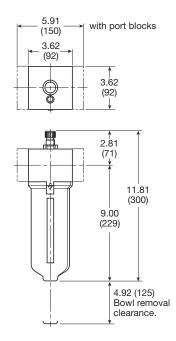
Material Specifications

Body, bowl	Aluminum
Injector meter block & base assembly	Plastic
Seals	Nitrile
Sight dome	Polycarbonate
Sight gauge	Polyamide (nylon)

Repair and Service Kits

Adjustment knob	P04121
Metal bowl / sight gauge / twist drain	P3NKA00BSM
Metal bowl / sight gauge / no drain	P3NKA00BSN
Bowl latch kit	C11A33
Twist drain kit	PS512P
Fill cap kit	P3NKA00PL
Sight dome kit, polycarbonate	PS740P
Sight dome kit, nylon	PS740N
Sight gauge kit	P3NKA00PE
Pressure fill adapter kit	P3NKA00PK
Service kit	P3NKA00RL
Mounting bracket kit*	P3NKA00MW
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005
	DONUGAODANUG

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

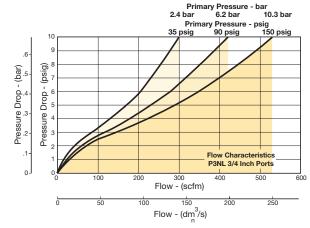


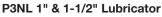
Inches (mm)

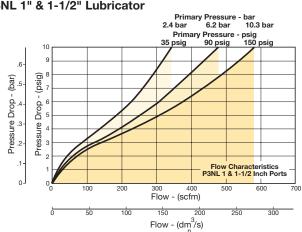
Air Preparation Products P3N Products

Flow Charts

P3NL 3/4" Lubricator







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

Coalescers



Combinations



For inventory, lead times, and kit lookup, visit www.pdnplu.com

G13

Popular Combinations: Inlet pressure 90 psig (6.2 bar), and 0.3 psig (5 bar) pressure drop.



Filter/Regulator + Lubricator Combinations, metal bowl, manual twist drain 40 micron element, 125 psig (8.6 bar) regulator without gauge



هظم

Port Size	Bowl Type	Relief Type	Manual Twist Drain
3/4"	Metal, Twist Drain	Relieving	P3NCA96SGMNNLNA
1"	Metal, Twist Drain	Relieving	P3NCA98SGMNNLNA
1-1/2" #	Metal, Twist Drain	Relieving	P3NCA9PSGMNNLNA

Filter + Regulator + Lubricator Combinations, metal bowl, manual twist drain 40 m element 125 psig (8.6 bar) regulator without (

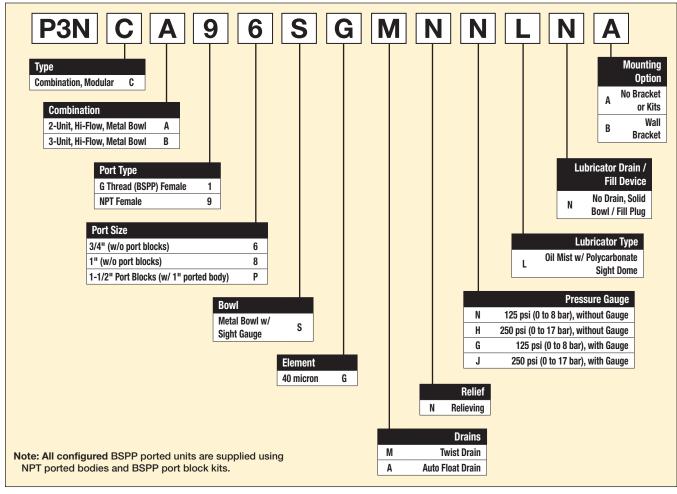
40 micron element, 125 psig (o.o bar) regulator without gauge $1 \neq \pm \Delta \neq 1$				
Port Size	Bowl Type	Relief Type	Manual Twist Drain	
3/4"	Metal, Twist Drain	Relieving	P3NCB96SGMNNLNA	
1"	Metal, Twist Drain	Relieving	P3NCB98SGMNNLNA	
1-1/2" #	Metal, Twist Drain	Relieving	P3NCB9PSGMNNLNA	

Notes: All combo part numbers are with regulator knob in up position.

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

1" Port body with 1-1/2" port block

Ordering Information:



Most popular.



G14

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

Lubricators

Combinations

Catalog 0700P-8 Modular Combinations

(Revised 02-12-18)

Air Preparation Products **P3N Products**

Repair and Service Kits

Mounting bracket kit	P3NKA00MW
Replacement body cover	P3NKA00PM
Individual NPT 3/4" Port block kits	P3NKB96CP
Individual NPT 1" Port block kits	P3NKB98CP
Individual NPT 1-1/2" Port block kits	P3NKB9BCP
Individual BSPP 3/4" Port block kits	P3NKB16CP
Individual BSPP 1" Port block kits	P3NKB18CP
Individual BSPP 1-1/2" Port block kits	P3NKB1BCP
Combination NPT 3/4" Port block kits	P3NKB96CL
Combination NPT 1" Port block kits	P3NKB98CL
Combination NPT 1-1/2" Port block kits	P3NKB9BCL
Combination BSPP 3/4" Port block kits	P3NKB16CL
Combination BSPP 1" Port block kits	P3NKB18CL
Combination BSPP 1-1/2" Port block kits	P3NKB1BCL

Note: 2-piece filter and regulator (F+R) assemblies require a (P3NKXXCCP) port block kit.

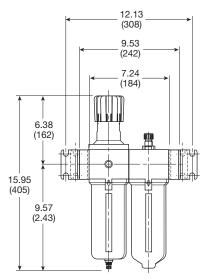
\land WARNING

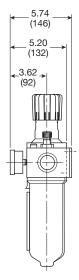
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating.

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.

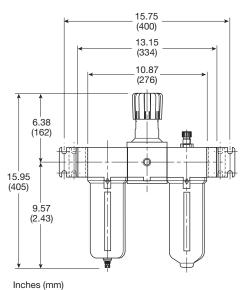
P3NCA (Modular 2-unit)





Inches (mm)

P3NCB (Modular 3-unit)



5.74 (146) 5.20 (132) 3.62 (92) P3N Products

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Filters

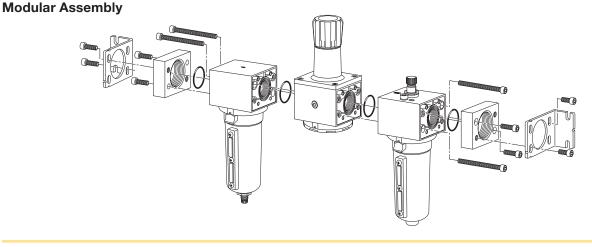
Coalescers

Regulators

Filter / Regulators

Lubricators

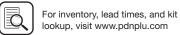
Combinations





G15





Catalog 0700P-8 Parker Pneumatic

Air Preparation Products Contents - www.parker.com/pneu/frl

Air Preparation Products General Industrial

F602 Particulate Filters	H2-H7
35F / 43F Particulate Filters	H8-H9
35F / 43F Coalescing Filters	H10-H11
F701 Coalescing Filters	H12-H13
P3TF Flanged Coalescing Filters	H14-H15
R119 Regulators	H16-H25
09R Regulators	H26-H27
L606 Lubricators	H28-H31
09L Lubricators	H32-H33
C628 Combinations	H34



F602 Particulate Filters – Hi-Flow

- 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
- 3/4" & 1" port, NPT & BSPP

General Industrial

Products

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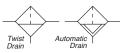
Filters

Coalescers

Regulators

Lubricators

Combinations



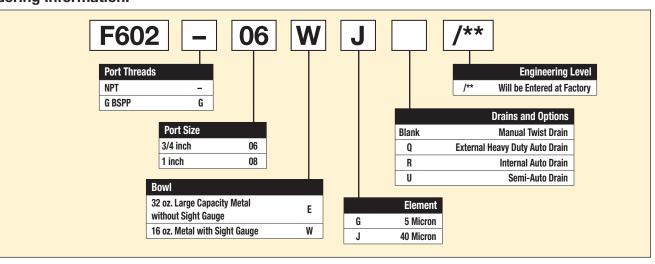
Port Size	Description	Part Number
3/4"	16 oz. Metal Bowl / Manual Drain	F602-06WJ
3/4"	16 oz. Metal Bowl / Auto Drain	F602-06WJR
3/4"	32 oz. Metal Bowl / Manual Drain	F602-06EJ
3/4"	32 oz. Metal Bowl / Auto Drain	F602-06EJR
1"	16 oz. Metal Bowl / Manual Drain	F602-08WJ
1"	16 oz. Metal Bowl / Auto Drain	F602-08WJR
1"	32 oz. Metal Bowl / Manual Drain	F602-08EJ
1"	32 oz. Metal Bowl / Auto Drain	F602-08EJR



Operating information

Supply pressure (max): Aluminum (E) Zinc with gauge (W) With internal auto dr With external auto d		0 to 300 psig (0 to 20.7 bar) 0 to 250 psig (0 to 17.2 bar) 20 to 175 psig (1.14 to 11.9 bar) 0 to 250 psig (0 to 17.2 bar)
Operating temperature Aluminum (E) Zinc with gauge (W) With internal auto dr With external auto d	ain [R]	40°F to 150°F (4.4°C to 65.6°C) 40°F to 150°F (4.4°C to 65.6°C) 40°F to 125°F (4.4°C to 52°C) 40°F to 150°F (4.4°C to 65.6°C)
Flow capacity [†] : High flow	3/4" 1"	270 scfm (127.4 dm³/s, ANR) 300 scfm (141.5 dm³/s, ANR)
Bowl capacity: Zinc with gauge (W) Aluminum (E)		16 oz. 32 oz.
Weight:	16 oz. 32 oz.	6.3 lb (2.86) 7.0 lb (3.18 kg)
* scfm = Standard cubic fee() Bowl type, [] drain type.	et per minute a	t 90 psig inlet and 5 psig pressure drop.

Ordering Information:



Most popular.



(Revised 10-24-19)

Material Specifications

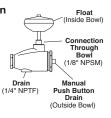
-	
Body	Zinc
Bowl (E) 32 oz. without sight gauge	Aluminum
Bowl (W) 16 oz. with sight gauge	Zinc
Manual twist drain & overnight	Brass
Drain housing "R"	Acetal
Drain housing "Q"	Bronze
Element	Polypropylene
Seals	Nitrile
Sight gauge	Nylon

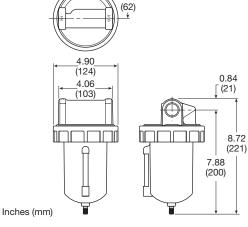
Repair and Service Kits

-	
Aluminum bowl (E) 32 oz.	BK603B
Zinc bowl with sight gauge (W) 16 oz.	BK605WB
External auto drain (E) 32 oz.	SA603D
External auto drain (W) 16 oz.	SA602D
Internal auto drain (All)	SA602MD
Manual drain (All)	SA600Y7-1
Semi-auto "overnight" drain (drains automatically under zero pressure)	SA602A7
40 micron element (All)	EK602B
5 micron element (All)	EK602VB
Mounting bracket, 3/4" Unit (pair or 2 kits pipe mounted brackets needed)	SA200AW57
Mounting bracket, 1" Unit (pair or 2 kits pipe mounted brackets needed)	SA200CW57
Deflector, baffle assembly, & retaining rod (E,W)	RK602B
External auto drain (All)	RK602D
Internal auto drain (All)	RK602MD
Sight glass repair kit (W)	RKB605WB

"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.





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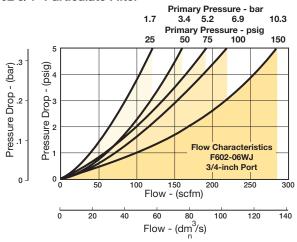
F602-06W, F602-08W (Hi-Flow)

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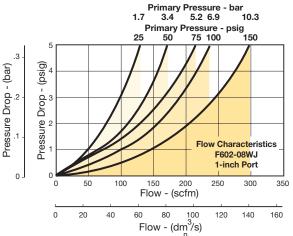


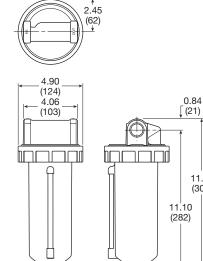
Flow Charts

F602 3/4" Particulate Filter



F602 1" Particulate Filter





F602-06E, F602-08E (Hi-Flow)

Inches (mm)

H3

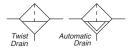
Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics

11.94 (303)



F602 Particulate Filters – Hi-Flow

- 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
- 1-1/2" port, NPT & BSPP



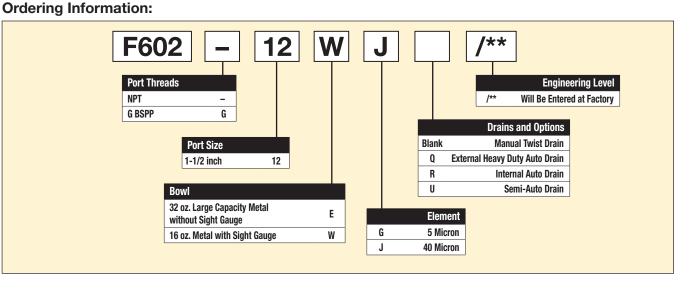
Port Size	Description	Part Number
1-1/2"	16 oz. Metal Bowl / Manual Drain	F602-12WJ
1-1/2"	16 oz. Metal Bowl / Auto Drain	F602-12WJR
1-1/2"	32 oz. Metal Bowl / Manual Drain	F602-12EJ
1-1/2"	32 oz. Metal Bowl / Auto Drain	F602-12EJR



Operating information

Supply pressure (max): Aluminum (E) Zinc with gauge (W) With internal auto dra With external auto dra		0 to 300 psig (0 to 20.7 bar) 0 to 250 psig (0 to 17.2 bar) 20 to 175 psig (1.14 to 11.9 bar) 0 to 250 psig (0 to 17.2 bar)
Operating temperature: Aluminum (E) Zinc with gauge (W) With internal auto dr With external auto dr	ain [R]	40°F to 150°F (4.4°C to 65.6°C) 40°F to 150°F (4.4°C to 65.6°C) 40°F to 125°F (4.4°C to 52°C) 40°F to 150°F (4.4°C to 65.6°C)
Flow capacity [†] : High flow	1-1/2"	450 scfm (212.4 dm ³ /s, ANR)
Bowl capacity: Zinc with gauge (W) Aluminum (E)		16 oz. 32 oz.
Weight:	16 oz. 32 oz.	7.0 lb (3.18 kg) 7.7 lb (3.49 kg)
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

() Bowl type, [] drain type.



Most popular.



Filters

Coalescers

Regulators

Lubricators

Combinations

General Industrial

Products

(Revised 10-24-19)

Air Preparation Products General Industrial

Material Specifications

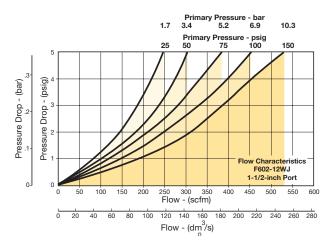
-	
Body	Zinc
Bowl (E) 32 oz. without sight gauge	Aluminum
Bowl (W) 16 oz. with sight gauge	Zinc
Manual twist drain & overnight	Brass
Drain housing "R"	Acetal
Drain housing "Q"	Bronze
Element	Polypropylene
Seals	Nitrile
Sight gauge	Nylon

Repair and Service Kits

Aluminum bowl (E) 32 oz.	BK603B
Zinc bowl with sight gauge (W) 16 oz.	BK605WB
External auto drain (E) 32 oz.	SA603D
External auto drain (W) 16 oz.	SA602D
Internal auto drain (All)	SA602MD
Manual drain (All)	SA600Y7-1
Semi-automatic "overnight" drain (drains automatically under zero pressure)	SA602A7
40 micron element (All)	EK602B
5 micron element (All)	EK602VB
Deflector, baffle assembly, & retaining rod (All)	RK602C
External auto drain (All)	RK602D
Internal auto drain (All)	RK602MD
Sight glass repair kit (W)	RKB605WB

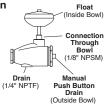
Flow Charts

F602 1-1/2" Particulate Filter



"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.



12.69 (322)

General Industrial Products

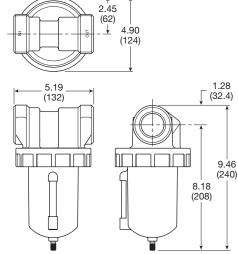
Filters

Coalescers

Regulators

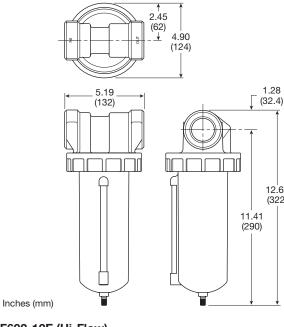
Lubricators

Combinations



Inches (mm)

F602-12W (Hi-Flow)



F602-12E (Hi-Flow)



F602 Particulate Filters – Hi-Flow

- 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
- 2" port, NPT & BSPP

General Industrial

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Filters

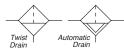
Coalescers

Regulators

Lubricators

Combinations

Products



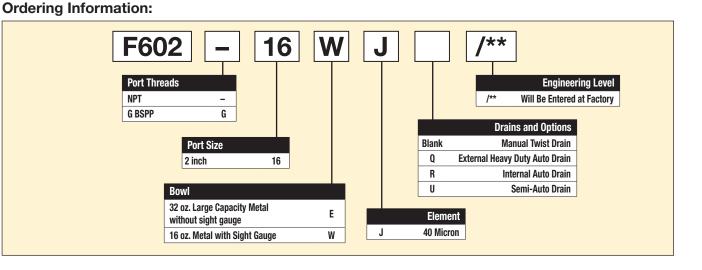
Description	Part Number
16 oz. Metal Bowl / Manual Drain	F602-16WJ
16 oz. Metal Bowl / Auto Drain	F602-16WJR
32 oz. Metal Bowl / Manual Drain	F602-16EJ
32 oz. Metal Bowl / Auto Drain	F602-16EJR
	16 oz. Metal Bowl / Manual Drain 16 oz. Metal Bowl / Auto Drain 32 oz. Metal Bowl / Manual Drain



Operating information

Supply pressure (max): Aluminum (E) Zinc with gauge (W) With internal auto dr With external auto dr		0 to 300 psig (0 to 20.7 bar) 0 to 250 psig (0 to 17.2 bar) 20 to 175 psig (1.14 to 11.9 bar) 0 to 250 psig (0 to 17.2 bar)
Operating temperature: Aluminum (E) Zinc with gauge (W) With internal auto dr With external auto dr	ain [R]	40°F to 150°F (4.4°C to 65.6°C) 40°F to 150°F (4.4°C to 65.6°C) 40°F to 125°F (4.4°C to 52°C) 40°F to 150°F (4.4°C to 65.6°C)
Flow capacity [†] : High flow	2"	1200 scfm (566.3 dm ³ /s, ANR)
Bowl capacity: Zinc with gauge (W) Aluminum (E)		16 oz. 32 oz.
Weight:	16 oz. 32 oz.	9.8 lb (4.45 kg) 10.3 lb (4.67 kg)
<pre>t scfm = Standard cubic fee () Bowl type [] drain type</pre>	et per minute a	t 90 psig inlet and 5 psig pressure drop.

() Bowl type, [] drain type.



Most popular.



(Revised 10-23-20)

Material Specifications

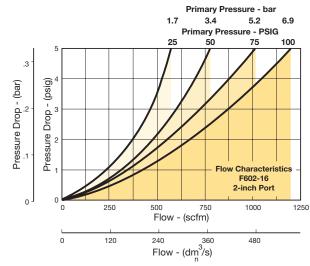
-	
Body	Aluminum
Bowl (E) 32 oz. without sight gauge	Aluminum
Bowl(W) 16 oz. with sight gauge	Zinc
Manual twist drain & overnight	Brass
Drain housing "R"	Acetal
Drain housing "Q"	Bronze
Element	Polypropylene
Seals	Buna N
Sight Gauge	Nylon

Repair and Service Kits

Aluminum bowl (E) 32 oz.	BK603B
Zinc bowl with sight gauge (W) 16 oz.	BK605WB
External auto drain (E) 32 oz.	SA603D
External auto drain (W) 16 oz.	SA602D
Internal auto drain (All)	SA602MD
Manual drain (All)	SA600Y7-1
Semi-auto "overnight" drain (drains automatically under zero pressure)	SA602A7
40 micron element (All)	EK602G
Deflector, baffle assembly, & retaining rod (All)	RK602C
External auto drain (All)	RK602D
Internal auto drain (All)	RK602MD
Sight glass repair kit (W)	RKB605WB

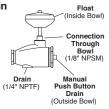
Flow Charts

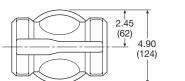
F602 2" Particulate Filter

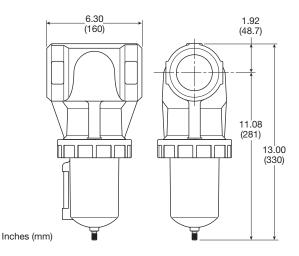


"Q" Option External Heavy Duty Auto Drain SA602D / SA603D

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.



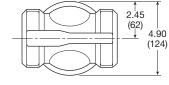


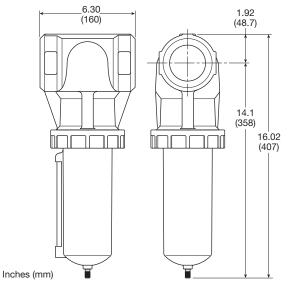


F602-16W (Hi-Flow)



For inventory, lead times, and kit lookup, visit www.pdnplu.com





F602-16E (Hi-Flow)

H7



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

General Industrial Products

35F / 43F Particulate Filters – Hi-Flow

- Heavy-duty cast aluminum housings to withstand operating pressures up to 250 psig*
- Differential pressure indicator to eliminate the guesswork of element replacement
- Differential pressure gauge available, order separately, kit DP3-01-000
- Unique drain mounting plate design offers a trouble-free method for interchanging and installing external drains
- 1-1/2" & 2" (35F), 3" (43F) ports, NPT & BSPP



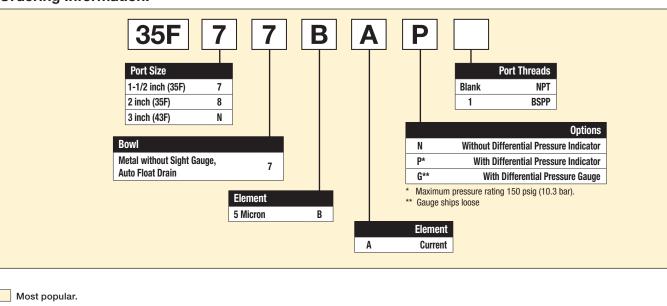
Auto Drain

Contraction of the second seco

Operating information

Supply pressure (ma With pressure ga without DPI* with DPI	,	250 psig (17.2 bar) 150 psig (10.3 bar)
Operating temperat	ure:	32°F to 150°F (0°C to 65.6°C)
Flow capacity [†] : High flow	1-1/2" 2" 3"	1280 scfm (604.1 dm ³ /s, ANR) 1400 scfm (660.7 dm ³ /s, ANR) 2900 scfm (1368.6 dm ³ /s, ANR)
Bowl capacity:	35F 43F	13.9 oz. 17.2 oz.
Standard Filtration:		5 micron
Weight:	35F 43F	19.3 lb (8.7 kg) 32.8 lb (14.9 kg)
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop. [‡] Without differential pressure indicator may pupply pressure in 250 psig (17.0 har)		

* Without differential pressure indicator, max supply pressure is 250 psig (17.2 bar).



Part Number

35F77BAP

35F87BAP

43FN7BAP

Ordering Information:

Description

Metal Bowl / Auto Drain

Metal Bowl / Auto Drain

Metal Bowl / Auto Drain

General Industrial

Products

Η

Filters

Coalescers

Regulators

Lubricators

Combinations

Port

Size

1-1/2

2"

3"



(Revised 10-23-20)

Air Preparation Products General Industrial

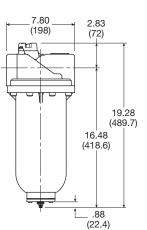
Material Specifications

-	
Baffle	Plated steel
Body	Aluminum
Bowls	Aluminum
Deflector	Plated steel
Element retainer	Plated steel
Filter element	Polyethylene
Seals	Fluorocarbon
Stud	Plated steel

Repair and Service Kits

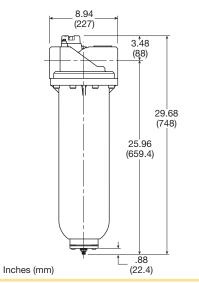
Differential pressure indicator cap	
For pressures over 150 psig	GRP-95-022
Differential pressure gauge	DP3-01-000
Differential pressure indicator	DP2-02-001
Auto drain, 1/8 NPT	GRP-95-981
Drain plate kit, 1/2 NPT tapped drain port	GRP-95-393
Element, 5 micron (35F)	FRP-95-505
Element, 5 micron (43F)	FRP-95-508
Manual drain kit with 1/2" drain plate	GRP-95-392

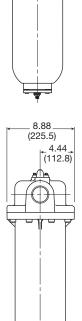
35F Particulate Filter



7.76 (197) (98.6) (98.6)

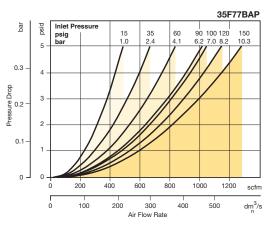
43F Particulate Filter



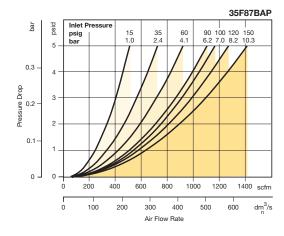


Flow Charts

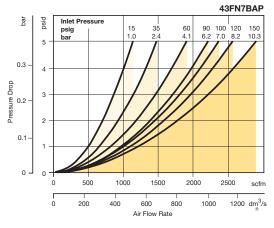
35F, 1-1/2" Particulate Filter



35F, 2" Particulate Filter



43F, 3" Particulate Filter





H9

Regulators

Lubricators

Combinations

35F / 43F Coalescing Filters – Hi-Flow

- Heavy-duty cast aluminum housings to withstand operating pressures up to 250 psig*
- Differential pressure indicator to eliminate the guesswork of element replacement
- Differential pressure gauge available, order separately, kit DP3-01-000
- Unique drain mounting plate design offers a trouble-free method for interchanging and installing external drains
- High-flow filter elements: coalescing, 1 micron and 0.01 micron
- 1-1/2", 2", 3" ports (NPT, BSPP, BSPT)
- * Without Differential Pressure Indicator Max. supply pressure is 250 psig (20.1 bar).



Auto Drain

Port Size	Description	Part Number
1-1/2"	0.01 micron / Auto Float	35F77EAP
1-1/2"	1.0 micron / Auto Float	35F77HAP
2"	0.01 micron / Auto Float	35F87EAP
2"	1.0 micron / Auto Float	35F87HAP
3"	0.01 micron / Auto Float	43FN7EAP
3"	1.0 micron / Auto Float	43FN7HAP



Operating information

With pressure gauge			
without DPI* with DPI		250 psig (17.2 bar) 150 psig (10.3 bar)	
Operating temperature:		32°F to 150°F (0°C to 65.6°C)	
Flow capacity [†] : High flow (35F) 1-1/2" (35F) 2" (43F) 3"		710 scfm (335 dm ³ /s, ANR) 710 scfm (335 dm ³ /s, ANR) 1770 scfm (835 dm ³ /s, ANR)	
Bowl capacity:	35F 43F	13.9 oz. 17.2 oz.	
Standard Filtration:		0.01 & 1 micron	
Weight:	35F 43F	19.3 lb (8.7 kg) 32.8 lb (14.9 kg)	
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.			

 Scm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.
 Filtration temperature of 70°F (21°C) @ 100 psig (6.9 bar) with typical compressor lubricating oil and protected by 0.01 micron filter.

Ordering Information: 35F Н Α 1 7 Ρ Port Size **Port Threads** 1-1/2 inch (35F) 7 Blank NPT 2 inch (35F) 8 BSPP 1 3 inch (43F) Ν 2 BSPT Bowl Options Metal without Sight Gauge, Ν Without Differential Pressure Indicator 7 Auto Float Drain P* With Differential Pressure Indicator Maximum pressure rating 150 psig. Element 0.01 Micron Е Engineering Level 1 Micron н Current Α

Most popular.



H10

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

Filters

Coalescers

Regulators

Lubricators

Combinations

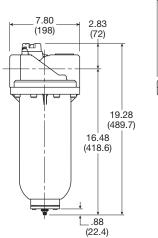
Material Specifications

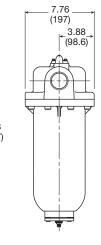
Body	Aluminum
Bowls	Aluminum
Filter element	Borosilicate cloth
Seals	Fluorocarbon
Stud	Plated steel

Repair and Service Kits

Differential pressure indicator cap – for pressures over 150 psig	GRP-95-022
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
35F: 0.01 Micron element	MTP-95-502
35F: 1.0 Micron element	MSP-95-502
43F: 0.01 Micron element	MTP-95-562
43F: 1.0 Micron element	MSP-95-876
Manual drain kit with 1/2" drain plate	GRP-95-392

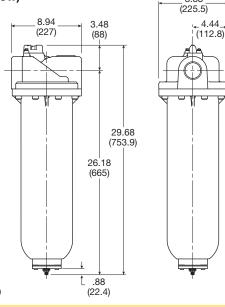
35F (Hi-Flow)





8.88

43F (Hi-Flow)



Inches (mm)

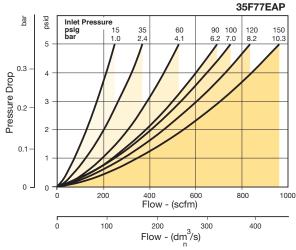


H11

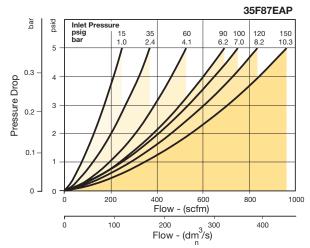
Air Preparation Products **General Industrial**

Flow Charts

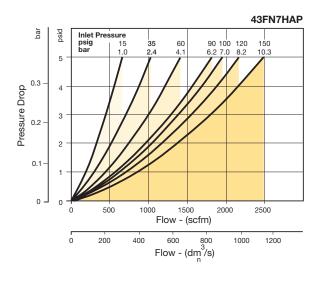
35F 1-1/2" Coalescing Filters



35F 2" Coalescing Filters



43F 3" Coalescing Filters



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



General Industrial Products

F701 Coalescing Filters – Hi-Flow

- Removes liquid aerosols and sub-micron particles.
- Protects pneumatic systems from contamination that standard particulate filters will not catch.
- Two different grade elements available.
- Differential pressure indicator (pop-up) standard.
- Differential pressure gauge optional.
- High flow design
- 3/4", 1" ports (NPT, BSPP)
- Note: All coalescing filters should be protected by a particulate filter (i.e., F602, or other) installed upstream.

Port Size	Description	Part Number
3/4"	32 oz. Metal Bowl, Grade 6 Element	F701-06E3P
3/4"	100 oz. Metal Bowl, Grade 6 Element	F701-06L3P
3/4"	32 oz. Metal Bowl, Grade 10 Element	F701-06E7P
3/4"	100 oz. Metal Bowl, Grade 10 Element	F701-06L7P
1"	32 oz. Metal Bowl, Grade 6 Element	F701-08E3P
1"	100 oz. Metal Bowl, Grade 6 Element	F701-08L3P
1"	32 oz. Metal Bowl, Grade 10 Element	F701-08E7P
1"	100 oz. Metal Bowl, Grade 10 Element	F701-08L7P



Operating information

Supply pressure (max): Manual drains Auto drains	0 to 300 psig (0 to 20.7 bar)
"R" low pressure interr "T" High pressure inter "Q" external	
Operating pressure drop: Normal Dr W	, , ,
Max recommended (Element should be repl Minimum recommended	
Operating temperature (max "R", "T", "Q" drains	:): 32°F to 150°F (0°C to 65°C) 125°F (52°C)
Flow capacity [†] :	
Grade 6 32 c (0.01 micron) 100 c	,,
Grade 10 32 c (1.0 micron) 100 c	
Weight: 32 c 100 c	
[†] scfm = Standard cubic feet per	minute at 90 psig inlet and 5 psig pressure drop.

* Dry media flow, for wet media flow information see table on next page.

06 3 W ** F701 Port Threads **Engineering Level** NPT /** Will Be Entered at Factory _ **G BSPP** G **Drains and Options** Blank **Manual Twist Drain** Port Size Т **High Pressure Internal Auto Drain** 3/4 inch 06 **External Auto Drain** 1 inch 08 Q* Low Pressure Internal Auto Drain R Bowl Q option not available with bowl option L. 32 oz. Metal without Sight Gauge Е Element 100 oz. Metal without Sight Gauge L 3 Grade 6 7 Grade 10

Most popular.



Ordering Information:

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

General Industrial

Η

Products

Material Specifications

Body & flange ring	Zinc
Metal bowl (E) (L)	Aluminum
Auto float drain, housing "R", "T" (internal)	Acetal
Auto float drain, housing "Q" (external)	Bronze
Auto float drain, manual twist drain	Brass
Seals & float	Buna N
Springs	Stainless steel
Element (media)	Borosilicate fibers & felt
Element end caps	Urethane
Seals	Buna N

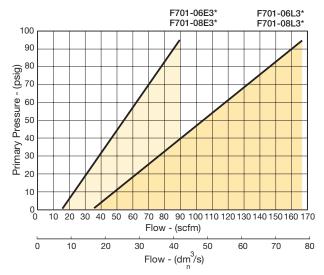
Repair and Service Kits

Bracket - 3/4 (pair of pipe mounted brackets)	SA200AW57
Bracket - 1 (pair of pipe mounted brackets)	SA200CW57
32 oz bowl kit - 3/4, 1 inch (E)	BK603B
32 oz bowl kit - 3/4, 1 inch (L) 100 oz.	BK603C
Differential pressure pop up Indicator repair kit (only works with originally equipped units)	RK701P
Differential pressure gauge (only works on units without pop-up indicator)	DP276-P
Internal automatic drain kit, high pressure (T)	SA702MD
Manual twist drain kit	SA600Y7-1
Grade 6 element - 3/4, 1 Inch (E) 32 oz.	F701-C3-0773
Grade 6 element - 3/4, 1 Inch (L) 100 oz.	F701-C3-0774
Grade 10 element - 3/4, 1 Inch (E) 32 oz.	F701-C7-0773
Grade 10 element - 3/4, 1 Inch (L) 100 oz.	F701-C7-0774

Air Preparation Products General Industrial

Flow Charts

F701 3/4" & 1" Coalescing Filter



Media Specifications

G D.O.P. r Coalescing efficiency d 0.3 to 0.6 micron e particles	rated flow		op (PSID) ² @
	carryover ¹ PPM w/w	Media dry	Media Wet with 10-20 wt. oil
99.97%	0.008	1.0	2-3
95%	0.85	0.5	0.5
	Coalescing efficiency 0.3 to 0.6 micron particles 99.97%	Coalescing efficiency 0.3 to 0.6 micron particlesMaximum oil carryover1 PPM w/w99.97%0.008	Coalescing efficiency 0.3 to 0.6 micron particlesMaximum oil carryover1 PPM w/wrated now Media dry99.97%0.0081.0

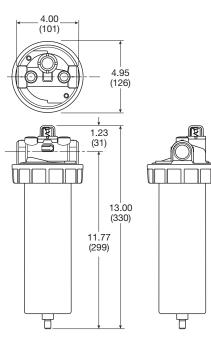
¹ Tested per BCAS 860900 at 40 ppm inlet.

² Add dry + wet for total pressure drop.

D.O.P. = Dioctylphthalate

() = Bowl Type

F701 - 32 oz. bowl (Hi-Flow)

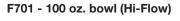


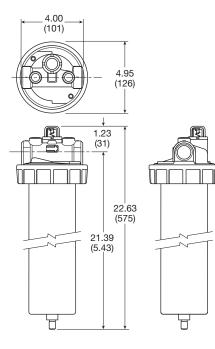
Inches (mm)

C



H13







P3TF Series Flanged Coalescing Filters

- No tie rod element design
- Pleated element technology
- New high efficiency drainage layer
- Designed in accordance with ASME and CRN
- Connection sizes: 4" & 6" flange
- Acrylic polyurethane coating for corrosion protection
- Float drain is standard, shipped loose
- DP gauge is standard, installed



Port Size	Element Type	Number Of Elements	Part Number
4"	0.01 micron	4	P3TFAFFD2AN
4"	1.0 micron	4	P3TFAFFQ2AN
6"	0.01 micron	6	P3TFAFGD3AN
6"	1.0 micron	6	P3TFAFGQ3AN

Operating information

Supply pressure (max):		232 psig (16 bar)
Operating temperature:		35°F to 212°F (1.5°C to 100°C)
Flow capacity [†] :	4" 6"	2119 scfm (1000 dm ³ /s, ANR) 4132 scfm (1950 dm ³ /s, ANR)
Standard Filtration:		0.01 & 1 micron
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Material Specifications

General Industrial Products

Η

Filters

Coalescers

Regulators

Lubricators

Combinations

Body	Steel
Baffle	Plated steel
Deflector	Plated steel
Element	Borosilicate cloth
Seals	Fluorocarbon
Stud	Plated steel

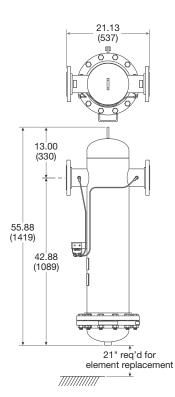
Repair and Service Kits

DP gauge replacement kit	DPG-Kit
Float drain kit - 1/2" NPT	HDF-120-NPT-A
0.01 Micron element (4 or 6 required)	060AA
1.0 Micron element (4 or 6 required)	060AO

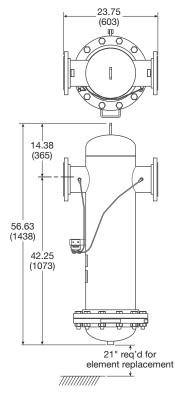
Most popular.

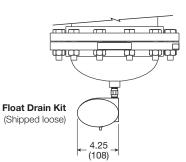


















R119 Regulators – Standard

- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet design for quick and accurate regulation
- · Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- · Heavy duty tee handle adjustment
- Reverse flow version available
- · Panel mount version available
- 1/4", 3/8", 1/2" ports (NPT, BSPP)



Port Size	Description (0-125 psig reduced pressure)	Part Number
1/4"	Without Gauge, Relieving, NPT	R119-02C
1/4"	With Gauge, Relieving, NPT	R119-02CG
3/8"	Without Gauge, Relieving, NPT	R119-03C
3/8"	With Gauge, Relieving, NPT	R119-03CG
1/2"	Without Gauge, Relieving, NPT	R119-04C
1/2"	With Gauge, Relieving, NPT	R119-04CG



Operating information

Supply pressure (max)	:	300 psig (0 to 20.7 bar)
Reduced pressure range	ge:	2 to 125 psig (0.15 to 8.5 bar)
Operating temperature):	40°F to 125°F (4.4°C to 52°C)
Flow capacity [†] :		
High flow	1/4"	100 scfm (47.2 dm ³ /s, ANR)
	3/8"	110 scfm (51.9 dm ³ /s, ANR)
	1/2"	150 scfm (70.8 dm ³ /s, ANR)
Gauge ports (2):		1/4 inch
Weight:	1/4"	1.8 lb (0.82 kg)
U U	3/8"	1.8 lb (0.82 kg)
	1/2"	3.2 lb (1.45 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary		

setting and 20 psig pressure drop.

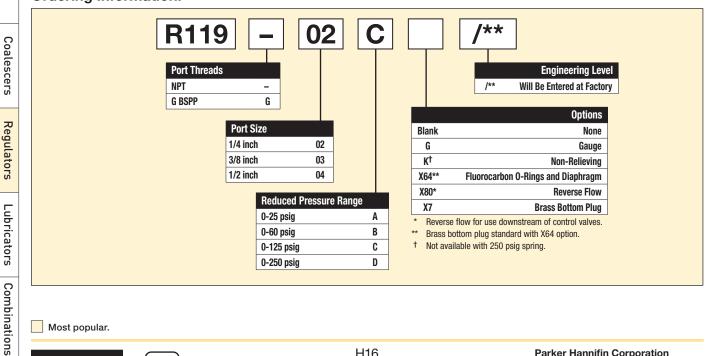
Ordering Information:

General Industrial

Н

Filters

Products



Most popular.





Catalog 0700P-8 **Standard Regulators**

Material Specifications

Adjusting screw, springs	Steel
Body, spring cage	Zinc
Bottom plug	Nylon
Innervalve	Brass
Seals	Buna N

Repair and Service Kits

-	
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face	
160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket, 1/4", 3/8"	SA15Y57
Mounting bracket, 1/2"	18A57
Panel mount conversion kit, 1/4", 3/8"	4202
Panel mount conversion kit, 1/2"	4204
Non-relieving diaphragm, valve assembly	
(1/4", 3/8"; all psig)	RK118Y
Relieving diaphragm, valve assembly	
(1/4", 3/8"; all psig)	RK119Y
Non-Relieving diaphragm, valve assembly	
(1/2"; 25, 60, 125 psig)	RK118A
Relieving diaphragm, valve assembly	
(1/2"; 25, 60, 125 psig)	RK119A
Relieving diaphragm, valve assembly	
(1/2"; 250 psig)	RK119A250
Spring cage & T-handle kit (1/4 & 3/8)	RKC119Y
Spring cage & insert only kit (1/2)	SAC18A3/BK
For fluorocarbon repair kits, add X64 to kit number suffix	

For fluorocarbon repair kits, add X64 to kit number suffix.

CAUTION:

R119-02C,

R119-03C

Inches (mm)

.625 Dia

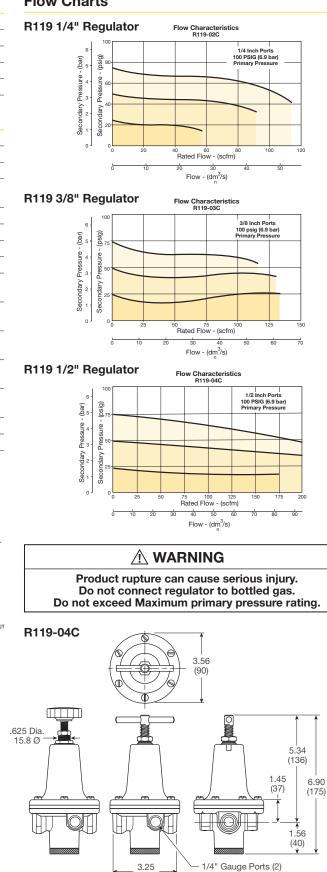
15.8 Ø

IT

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.



Flow Charts



(83)

General Industrial Products

Η

Filters

Coalescers

Regulators

Lubricators

Combinations



Panel Mount

Version

<u>í no</u>i

1/4" Gauge Ports (2)

274

(70.5)

Ĥ

3.00 (76)

H17

X80 Reverse Flow

Option

5.29 (134)

1.38

(35)

6 67

(169)

0.90

(24)

Parker Hannifin Corporation Pneumatic Division

Richland, Michigan www.parker.com/pneumatics

Air Preparation Products General Industrial

R119 Regulators – Hi-Flow

- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet design for quick and accurate regulation
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Heavy duty tee handle adjustment
- Reverse flow version available
- 3/4", 1", 1-1/2" ports (NPT, BSPP)



Port Size	Description (0-125 psig reduced pressure)	Part Number
3/4"	Without Gauge, Relieving, NPT	R119-06C
3/4"	With Gauge, Relieving, NPT	R119-06CG
1"	Without Gauge, Relieving, NPT	R119-08C
1"	With Gauge, Relieving, NPT	R119-08CG
1-1/2"	Without Gauge, Relieving, NPT	R119-12C
1-1/2"	With Gauge, Relieving, NPT	R119-12CG



Operating information

Supply pressure (max) Reduced pressure ran		300 psig (0 to 20.7 bar) 2 to 125 psig (0.15 to 8.5 bar)
1	0	
Operating temperature	ə:	40°F to 125°F (4.4°C to 52°C)
Flow capacity [†] : High flow	3/4" 1" 1-1/2"	300 scfm (141.6 dm ³ /s, ANR) 400 scfm (188.8 dm ³ /s, ANR) 500 scfm (236 dm ³ /s, ANR)
Gauge ports (2):		1/4 inch
Weight:	3/4" 1" 1-1/2"	6.2 lb (2.81 kg) 6.2 lb (2.81 kg) 7.2 lb (3.27 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.		

Ordering Information:

General Industrial

Н

Filters

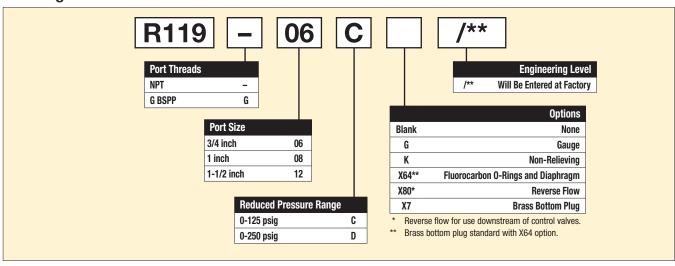
Coalescers

Regulators

Lubricators

Combinations

Products



Most popular.



Catalog 0700P-8 Hi-Flow Regulators

(Revised 08-23-17)

Material Specifications

•	
Adjusting screw, springs	Steel
Body, spring cage	Zinc
Bottom plug	Nylon
Innervalve	Brass
Seals	Buna N

Repair and Service Kits

2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit	18B57
Non-relieving diaphragm, valve assembly (3/4", 1")	RK118B
Non-relieving diaphragm, valve assembly (1-1/2")	RK118D
Relieving diaphragm, valve assembly (3/4", 1")	RK119B
Relieving diaphragm, valve assembly (1-1/2")	RK119D

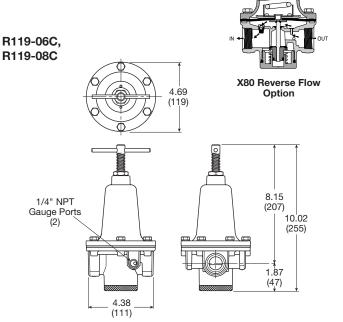
For Fluorocarbon Repair Kits, add X64 to kit number suffix.

🗥 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.



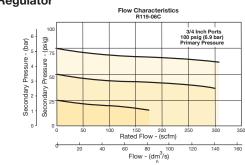
Inches (mm)



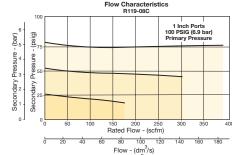
Air Preparation Products General Industrial

Flow Charts

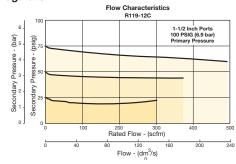
3/4" Regulator



1" Regulator

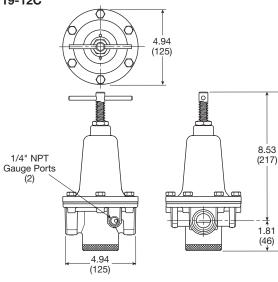


1-1/2" Regulator



R119-12C

H19



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

10.34

(263)

R119 – Pilot Operated Regulators

- 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 performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation.
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Reverse flow available

General Industrial

Filters

Products

• 1/4", 3/8", 1/2" ports (NPT, BSPP)



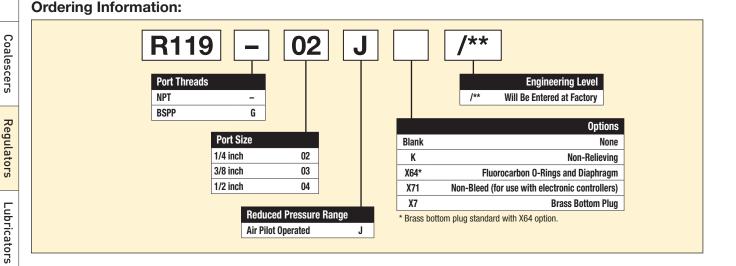
Port Size	Description (0-125 psig reduced pressure)	Part Number
1/4"	Without Gauge, Relieving, NPT	R119-02J
3/8"	Without Gauge, Relieving, NPT	R119-03J
1/2"	Without Gauge, Relieving, NPT	R119-04J



Operating information

Supply pressure (max)	:	300 psig (0 to 20.7 bar)
Air consumption:		Constant bleed from air pilot chamber: approx. 0.17 scfm (10 scfh)
Operating temperature	e:	40°F to 125°F (4.4°C to 52°C)
Pilot pressure:		1/4", 3/8" thread - 1/8" 1/2" thread - 1/4"
Reduced pressure ran	ge:	Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity [†] :		
High flow	1/4" 3/8" 1/2"	100 scfm (47.2 dm ³ /s, ANR) 110 scfm (51.9 dm ³ /s, ANR) 150 scfm (70.8 dm ³ /s, ANR)
Gauge ports (2):		1/4 inch
Weight:	1/4" 3/8" 1/2"	1.6 lb (0.73 kg) 1.6 lb (0.73 kg) 2.6 lb (1.18 kg)
† scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary		

setting and 20 psig pressure drop.



Most popular.

Combinations



H20

Catalog 0700P-8 R119 Regulators

Material Specifications

Body, ring, top plate	Zinc
Bottom plug	Nylon
Innervalve	Brass
Seals	Buna N

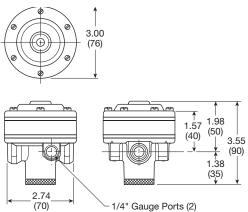
Repair and Service Kits

-	
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Non-relieving diaphragm, valve assembly (1/2")	RK118X20A
Non-relieving diaphragm, valve assembly (1/4", 3/8")	RK118X20Y
Relieving diaphragm, valve assembly (1/2")	RK119X20A
Relieving diaphragm, valve assembly (1/4", 3/8")	RK119X20Y

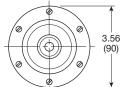
For fluorocarbon repair kits, add X64 to kit number suffix.

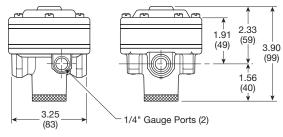
For non-bleed pilot repair kits, add X71 to kit number suffix.

R119-02J, R119-03J



R119-04J



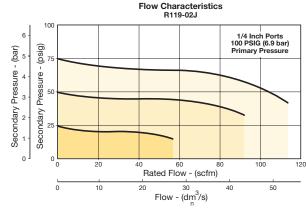


Inches (mm)

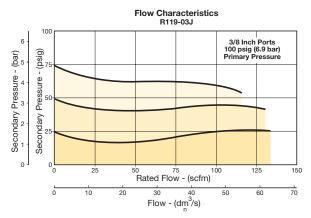


Flow Charts

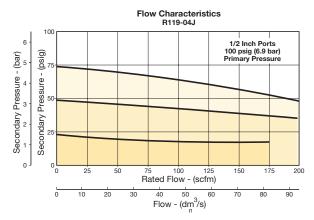
R119 1/4" Regulator



R119 3/8" Regulator







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



H21

R119 Pilot Operated Regulators - Hi-Flow

- 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 performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Reverse flow version available

General Industrial

Н

Filters

Products

• 3/4", 1", 1-1/2" ports (NPT, BSPP)



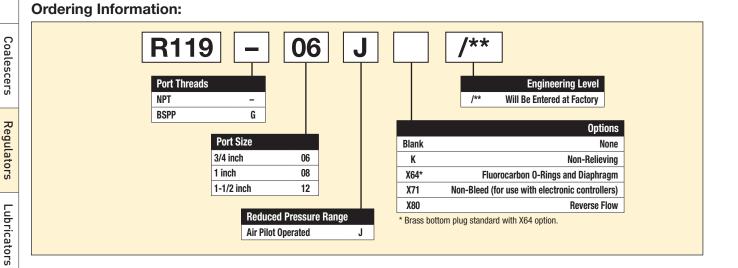
Port Size	Description (0-125 psig reduced pressure)	Part Number
3/4"	Without gauge, relieving, NPT	R119-06J
1"	Without gauge, relieving, NPT	R119-08J
1-1/2"	Without gauge, relieving, NPT	R119-12J



Operating information

Supply pressure (max	<):	300 psig (0 to 20.7 bar)
Air consumption:		Constant bleed from air pilot chamber: approx. 0.17 scfm (10 scfh)
Operating temperatu	re:	40°F to 125°F (4.4°C to 52°C)
Reduced pressure ra	nge:	Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity [†] :		
High flow	3/4"	300 scfm (141.6 dm ³ /s, ANR)
	1" 1-1/2"	300 scfm (141.6 dm ³ /s, ANR) 500 scfm (236 dm ³ /s, ANR)
Gauge ports (2):	1 1/2	1/4 inch
Weight:	3/4"	5.2 lb (2.36 kg)
weight.	1"	5.2 lb (2.36 kg)
	1-1/2"	5.6 lb (2.54 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary		

setting and 20 psig pressure drop.



Most popular.

Combinations



Catalog 0700P-8 Hi-Flow Regulators

Material Specifications

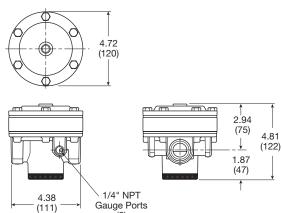
Body, ring, top plate	Zinc
Bottom plug, innervalve	Brass
Seals	Buna N

Repair and Service Kits

2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Non-relieving diaphragm, valve assembly (3/4", 1")	RK118X20B
Non-relieving diaphragm, valve assembly (1-1/4", 1-1/2")	RK118X20D
Relieving diaphragm, valve assembly (3/4", 1")	RK119X20B
Relieving diaphragm, valve assembly (1-1/4", 1-1/2")	RK119X20D

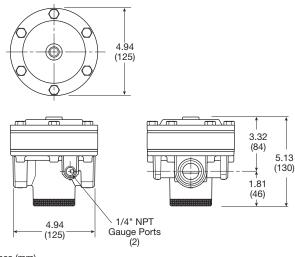
For Fluorocarbon Repair Kits, add X64 to Kit Number suffix.

R119-06J, R119-08J



(2)

R119-12J

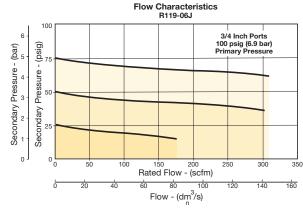


Inches (mm)

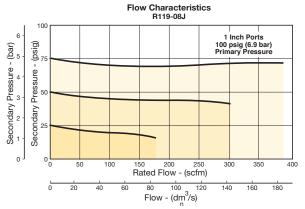


R119 3/4" Regulator

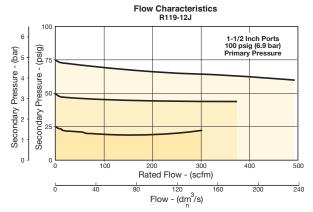
Air Preparation Products



R119 1" Regulator



R119 1-1/2" Regulator



\land WARNING

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

Products

Η

Filters

Coalescers

Regulators



For inventory, lead times, and kit lookup, visit www.pdnplu.com

H23

R119 Pilot Operated Regulators - Hi-Flow

- 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 performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Piston operated design with balanced poppet and dual constant bleed for quick and accurate regulation
- 2", 2-1/2" ports (NPT, BSPP)

Description

(0-125 psig reduced pressure)

Without Gauge, Relieving, NPT

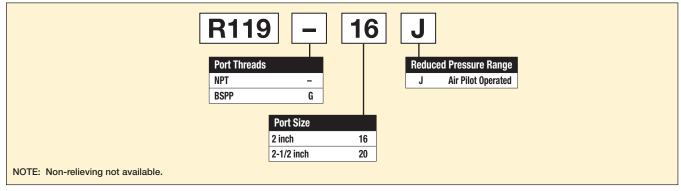
Without Gauge, Relieving, NPT



Operating information

Supply pressure (max):	300 psig (0 to 20.7 bar)
Air consumption:	
Constant bleed from	Air pilot chamber: approx. 0.17 scfm (10 scfh)
	Reduced pressure: approx. 0.17 scfm (10 scfh)
Operating temperature:	40°F to 120°F (4.4°C to 48.9°C)
Reduced pressure range:	Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity [†] :	
High flow 2" 2-1/2"	1800 scfm (850 dm ³ /s, ANR) 1800 scfm (850 dm ³ /s, ANR)
Gauge ports (2):	
Can be used for full flow	1/4 inch
High pressure outlet for pilot	1/4 inch
Weight:	15 lb (6.8 kg)
[†] scfm = Standard cubic feet per minute setting and 20 psig pressure drop.	e at 100 psig inlet, 75 psig no flow secondary

Ordering Information:



General Industrial

Products

Η

Filters

Coalescers

Port Size

2"

2-1/2"

Most popular.





Part Number

R119-16J

R119-20J

Catalog 0700P-8 Hi-Flow Regulators

Material Specifications

Body, piston	Aluminum
Seals	Buna N
Innervalve	Brass & stainless

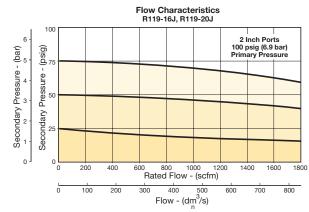
Repair and Service Kits

2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Piston type regulation (2", 2-1/2")	RK119G

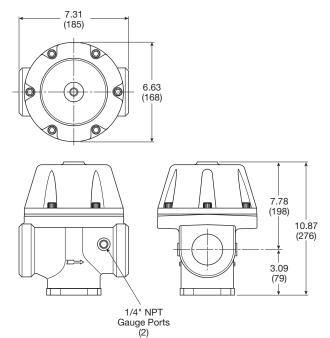
Air Preparation Products General Industrial

Flow Charts

R119 2" Regulator



R119-16J, R119-20J



Inches (mm)

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



For inventory, lead times, and kit lookup, visit www.pdnplu.com

H25

09R Regulators – Hi-Flow

- 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

Description

Without Gauge, Relieving

• 2" ports (NPT)

Port Size

2"

General Industrial Products

Η

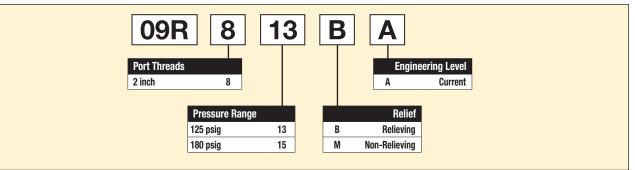
Filters





5	Operating information	ı
Part Number		
00001204	Supply pressure (max):	300 psig (0 to 20.7 bar)
09R813BA	Secondary pressure range:	10 to 125 psig (0.7 to 8.6 bar) 10 to 180 psig (0.7 to 12.4 bar)
	Operating temperature:	32°F to 150°F (0°C to 65.6°C)
	Flow capacity [†] : High flow	1000 scfm (472 dm ³ /s, ANR)
	FIGHTIOW	1000 SCIIII (472 UIII9/S, ANN)
	Gauge ports (2):	1/4 inch (can be used as additional full flow 1/4 inch outlet ports)
	Weight:	10.82 lb (53 kg)
	[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.	

Ordering Information:



Most popular.



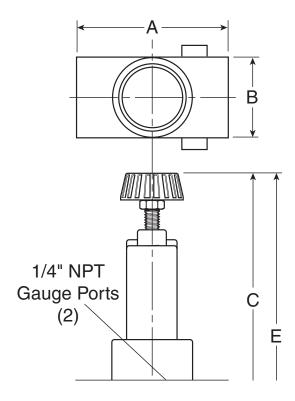
Catalog 0700P-8 Hi-Flow Regulators

Material Specifications

-	
Adjusting stem & springs	Steel
Body	Zinc Alloy
Bonnet, piston stem, valve poppet & cap	Aluminum
Piston, cap	Plastic
Seals	Nitrile

Repair and Service Kits

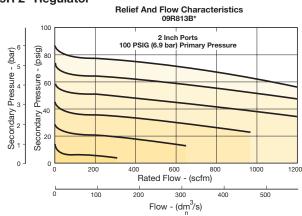
Body service kit	PS603P
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit	PS605P
Non-relieving	PS604P
Relieving	PS626P
0 to 125 psig spring	PS602P
0 to 180 psig spring	PS627



Air Preparation Products **General Industrial**

Flow Charts

09R 2" Regulator



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.



C

L606 Lubricators – Standard

- 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
- 3/4", 1" ports, (NPT, BSPP)



Port

General Industrial

Filters

Coalescers

Regulators

Lubricators

Combinations

Products

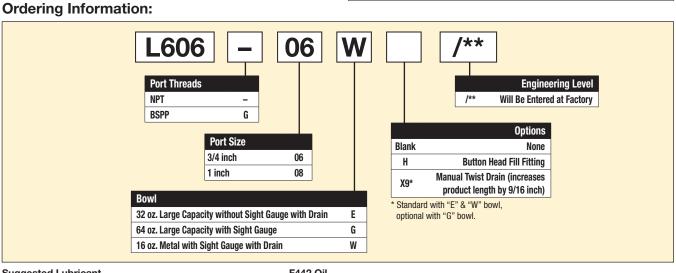
Size	Description	Part Number
3/4"	16 oz. Bowl with Sight Gauge, Drain	L606-06W
1"	16 oz. Bowl with Sight Gauge, Drain	L606-08W
3/4"	32 oz. Bowl without Sight Gauge, with Drain	L606-06E
1"	32 oz. Bowl without Sight Gauge, with Drain	L606-08E
3/4"	64 oz. Bowl with Sight Gauge, No Drain	L606-06G
1"	64 oz. Bowl with Sight Gauge, No Drain	L606-08G



Operating information

Supply pressure (max): Aluminum (E) Aluminum with gaug Zinc with gauge (W)	e (G)	300 psig (20.7 bar) 150 psig (10.2 bar) 250 psig (17.2 bar)
Operating temperature: Aluminum (E) Aluminum with gaug Zinc with gauge (W)		40°F to 150°F (4.4°C to 65.6°C) 40°F to 125°F (4.4°C to 52°C) 40°F to 150°F (4.4°C to 65.6°C)
Flow capacity [†] : High flow	3/4" 1"	325 scfm (153.4 dm ³ /s, ANR) 350 scfm (165.2 dm ³ /s, ANR)
Bowl capacity: Aluminum (E) Aluminum with gaug Zinc with gauge (W)	e (G)	32 oz. 64 oz. 16 oz.
Weight:	16 oz (W) 32 oz (E) 64 oz (G)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet and 5 psig pressure drop.		

() Bowl type.



 Suggested Lubricant
 F442 Oil

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

Most popular.

Parker



(Revised 03-09-20)

Air Preparation Products General Industrial

Material Specifications

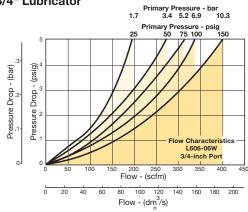
Body	Zinc
Bowl, 32 oz. (E)	Aluminum
Bowl, 64 oz. (G)	Aluminum with polycarbonate sight gauge
Bowl, 16 oz. (W)	Zinc with nylon sight gauge
Seals	Buna N

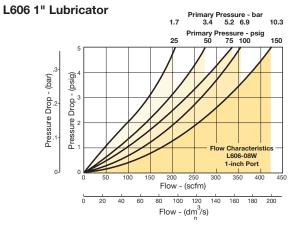
Repair and Service Kits

Adjusting knob	606Y72
, 0	BK603B
Aluminum 32 oz bowl (E)	DROUSD
Aluminum 64 oz bowl with sight gauge (G)	BK606X30B
Zinc 16 oz bowl with sight gauge (W)	BK609WB
Button head fill fitting (M14 male thread)	L606C14
Dip tube kit	DTK606
Drip spout kit	RK606SY
Mounting bracket, 3/4 Inch (2 required per unit)	SA200AW57
Mounting bracket, 1 Inch units (2 required per unit)	SA200CW57
Needle valve assembly (All)	RK606Y
Sight glass repair kit (W)	RKB605WB
Sight glass repair kit (G)	RKB606X30B
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

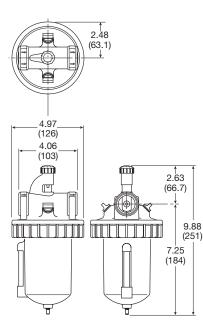
Flow Charts

L606 3/4" Lubricator



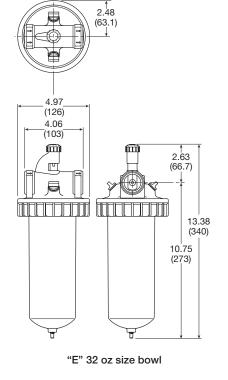


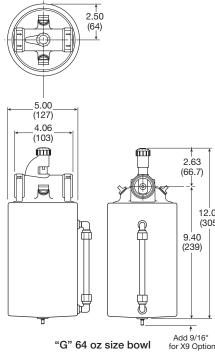
L606 - 3/4" and 1"



"W" 16 oz size bowl

Inches (mm)







12.02

(305)

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



For inventory, lead times, and kit lookup, visit www.pdnplu.com

H29

L606 Lubricators – Standard

- 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
- 1-1/2" ports (NPT, BSPP)



Port Size	Description	Part Number
1-1/2"	16 oz. Bowl with Sight Gauge, Drain	L606-12W
1-1/2"	32 oz. Bowl without Sight Gauge, with Drain	L606-12E
1-1/2"	64 oz. Bowl with Sight Gauge, No Drain	L606-12G



Operating information

Supply pressure (max) Aluminum (E)	:	300 psig (20.7 bar)
Aluminum with gau	ro(G)	150 psig (10.2 bar)
Zinc with gauge (W		250 psig (17.2 bar)
0 0 0		200 paig (17.2 bai)
Operating temperature	9:	
Aluminum (E)		40°F to 150°F (4.4°C to 65.6°C)
Aluminum with gau	J ()	40°F to 125°F (4.4°C to 52°C)
Zinc with gauge (W))	40°F to 150°F (4.4°C to 65.6°C)
Flow capacity [†] :		
High flow	1-1/2"	400 scfm (188.8 dm ³ /s, ANR)
Bowl capacity:		
Aluminum (E)		32 oz.
Aluminum with gau	ge (G)	64 oz.
Zinc with gauge (W)	16 oz.
Weight:	16 oz	7.5 lb (3.40 kg)
	32 oz	8.3 lb (3.76 kg)
	64 oz	10.0 lb (4.54 kg)
[†] scfm = Standard cubic fe	et per minute :	at 100 psig inlet and 5 psig pressure drop.
() Bowl type.		

Ordering Information:

General Industrial

Filters

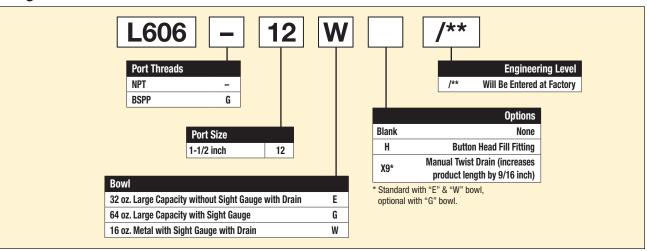
Coalescers

Regulators

Lubricators

Combinations

Products



Petroleum based oil of 100 to 200 SUS 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.)

Most popular.

Parker



(Revised 10-23-20)

Air Preparation Products General Industrial

Material Specifications

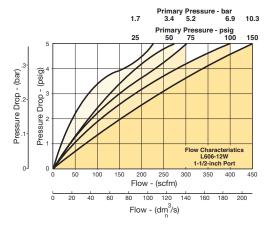
Body	Zinc
32 oz. bowl (E) 64 oz. bowl (G) 16 oz. bowl (W)	Aluminum Aluminum with polycarbonate sight gauge Zinc with nylon sight gauge
Seals	Buna N

Repair and Service Kits

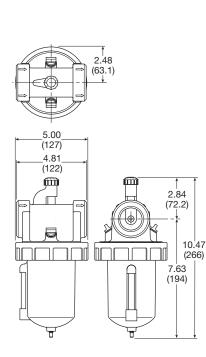
Adjusting knob	606Y72
Aluminum 32 oz. bowl (E)	BK603B
Aluminum 64 oz. bowl with sight gauge (G)	BK606X30B
Zinc 16 oz. bowl with sight gauge (W)	BK609WB
Button head fill fitting (M14 male thread)	L606C14
Dip tube kit	DTK606
Drip spout kit	RK606SY
Needle valve assembly (All)	RK606Y
Sight glass repair kit (W)	RKB605WB
Sight glass repair kit (G)	RKB606X30B
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

Flow Charts

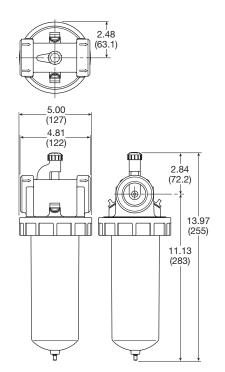
L606 1-1/2" Lubricator

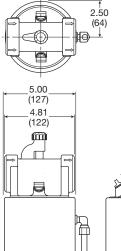


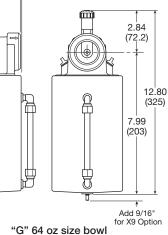
L606 - 1-1/2"



"W" 16 oz size bowl







Inches (mm)



H31

"E" 32 oz size bowl

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

General Industrial Products Η Filters Coalescers Regulators Lubricators Combinations

09L Mist Lubricators – Hi-Flow

- 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
- 2" ports (NPT)

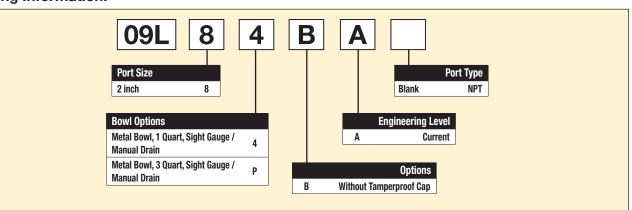


Port Size	Description	Part Number
2"	Metal Bowl, Sight Gauge, 1 Quart	09L84BA
2"	Metal Bowl, Sight Gauge, 3 Quart	09L8PBA



Operating information		
Supply pressure (max)	:	150 psig (10.3 bar)
Operating temperature	э:	32°F to 150°F (0°C to 66°C)
Flow capacity [†] : High flow 2" Minimum flow		1000 scfm (472 dm ³ /s, ANR) 6.6 scfm at 100 psig
Bowl capacity:		1 qt. (standard)
Weight:	1 qt 3 qt	10.2 lb (4.6 kg) 13.7 lb (6.2 kg)
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Ordering Information:



Petroleum based oil of 100 to 200 SUS 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.)

Most popular.



General Industrial

Products

Η

Air Preparation Products **General Industrial**

Material Specifications

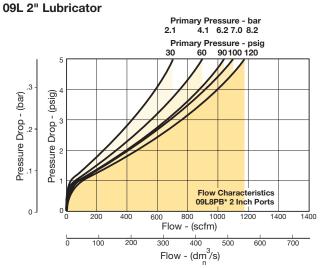
Body

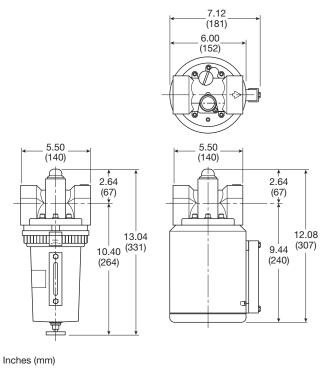
Zinc alloy, die cast

Flow Charts

Repair and Service Kits

Fill cap kit	PS610P
Lubricator service kit	PS607P
Metal bowl, 1 quart, sight gauge / twist drain	PS612P
Sight dome kit	PS613P
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005





3 Quart



1 Quart

C628 General Industrial Combinations – Standard

- 40 micron filter element
- · Gauges included on combinations
- Manual twist drain
- Relieving regulator

C628 Standard Combinations





Port Size	Bowl Type	Bowl Capacity	Element Type	Part Number
3/4"	Metal / Sight Gauge	16 oz	40 micron	C628-06FRLWJCW
3/4"	Metal / Without Sight Gauge	32 oz	40 micron	C628-06FRLEJCE
1"	Metal / Sight Gauge	16 oz	40 micron	C628-08FRLWJCW
1"	Metal / Without Sight Gauge	32 oz	40 micron	C628-08FRLEJCE
1-1/2"	Metal / Sight Gauge	16 oz	40 micron	C628-12FRLWJCW
1-1/2"	Metal / Without Sight Gauge	32 oz	40 micron	C628-12FRLEJCE

Ordering Information:

General Industrial

Н

Filters

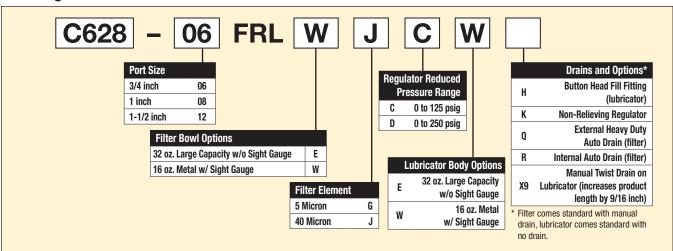
Coalescers

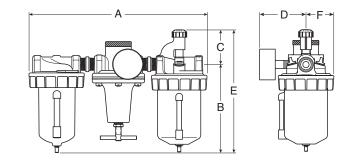
Regulators

Lubricators

Combinations

Products





B	C	D	E	F
-RL, C628-	08FRL			
7.75 (197)	2.63 (67)	3.52 (89)	13.00 (330)	2.48 (63)
-RL				
8.13 (206)	2.84 (72)	3.86 (98)	14.13 (359)	2.64 (67)
	7.75 (197) FRL 8.13 (206)	(197) (67) FRL 8.13 2.84	7.75 2.63 3.52 (197) (67) (89) FRL 8.13 2.84 3.86 (206) (72) (98)	7.75 2.63 3.52 13.00 (197) (67) (89) (330) FRL 8.13 2.84 3.86 14.13 (206) (72) (98) (359)

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

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

Most popular.





H34

CAUTION:

REGULATOR PRESSURE ADJUSTMENT -

pressure up to the desired setting.

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

For inventory, lead times, and kit lookup, visit www.pdnplu.com



Air Preparation Products Contents - www.parker.com/pneu/frl

Air Preparation Products Miniature / Inline

Filters

02F	J2-J3
P31FB	J4-J5
14F	J6-J7

Coalescing Filters

02F	J8-J9
P31F	J10-J11
10F	J12-J13
15F	J14-J15

Regulators

P31R	J16-J17
14R	J18-J19
P3A-R	J20-J21
R34	J22-J23
R25	J24-J25
R45	J26-J27
15R	J28-J29

Filter / Regulators

P31EB	J30-J31
B34	J32-J33
14E	J34-J35
05E	J36-J37

Lubricators

02L	J38-J39
P31LB	J40-J41
04L	J42-J43

Miniature / Inline Products





02F Particulate Filters – Miniature

Application

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

¢

Miniature / Inline Products 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 at 90 psig inlet pressure with 5 psig pressure drop.



Port Size	Description	Part Number
1/4"	Inline Filter	02F1BA



Operating information		
Supply pressure (max):	200 psig (13.8 bar)	
Operating temperature:	32°F to 150°F (0°C to 65.6°C)	
Flow capacity [†] :	17 scfm (8 dm ³ /s, ANR)	
Standard Filtration*:	5 micron	
Weight: 0.13 lb (0.06 kg)		
 [†] Inlet pressure 90 psig (6.2 bar). Pressure drop 5 psid (0.3 bar). [*] "F" Series Filters, Type "A" 5 micron elements: All Parker 5 micron elements are exceed USO Close 2 for maximum particle size and 		

elements meet or exceed ISO Class 3 for maximum particle size and concentration of solid contaminants.

Most popular.



Air Preparation Products Miniature / Inline

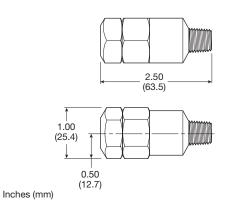
Material Specifications

Body	Aluminum
Baffle	Aluminum
Filter element	Sintered polyethylene
Seals	Nitrile

PS436

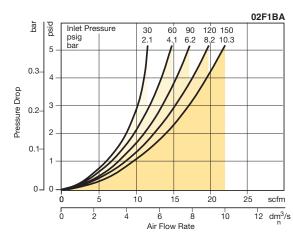
Repair and Service Kits

5 Micron		



Flow Charts

1/4" Filter







J3

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

Products Miniature / Inline

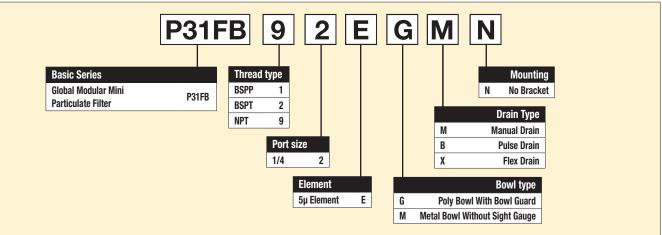
P31 Particulate Filter – Mini Integral 1/4" ports (NPT, BSPP & BSPT) · High efficiency 5 micron element as standard • Excellent water removal efficiency · Robust but lightweight aluminum construction One hand operation for easy element cartridge removal · Positive bayonet latch to ensure correct & safe fitting 2 2 **Operating information** Manual drain Pulse drain Supply pressure (max): Plastic bowl 150 psig (10 bar) Metal bowl 250 psig (17 bar) Operating temperature: 14°F to 125°F (-10°C to 52°C) Plastic bowl Metal bowl 14°F to 150°F (-10°C to 65.5°C) Port Standard filtration: Part Number 5 micron Size Description Flow capacity*: 25 scfm (12 dm³/s, ANR) 1/4" P31FB92EGMN Poly Bowl, Manual Drain Useful retention[†]: 0.4 US oz. (12 cm³) 1/4" Poly Bowl, Pulse Drain P31FB92EGBN Weight: 0.24 lb (0.11 kg) 1/4" P31FB92EMMN Metal Bowl, Manual Drain * Inlet pressure 91.3 psig (6.3 bar). Pressure drop 4.9 psig (0.34 bar). 1/4" Metal Bowl, Pulse Drain P31FB92EMBN

[†] Useful retention refers to volume below the quiet zone baffle.

Air quality:

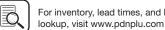
Within ISO 8573-1: 1991 Class 3 (Particulates) Within ISO 8573-1: 2001 Class 6 (Particulates)

Ordering Information:



Most popular.





•	
Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Element retainer	Acetal
Baffle	Acetal
Filter element	Sintered polyethylene
Seals	Nitrile

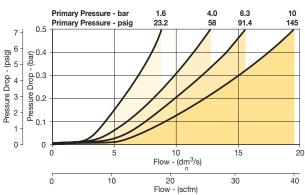
Repair and Service Kits

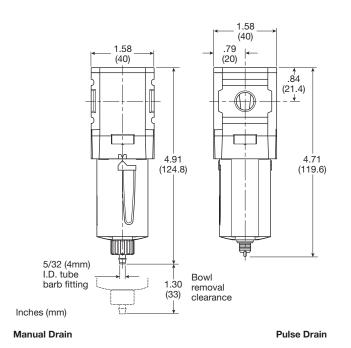
Plastic bowl / bowl guard, manual drain	P31KB00BGM
Metal bowl / w/o sight gauge, manual drain	P31KB00BMM
Plastic bowl / bowl guard, pulse drain	P31KB00BGB
Metal bowl / w/o sight gauge, pulse drain	P31KB00BMB
5µ particle filter element	P31KA00ESE
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB

Air Preparation Products **Miniature / Inline**

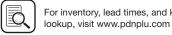
Flow Charts

P31 1/4 Particulate Filter





Parker



14F Particulate Filters – Miniature

- 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

Filters

Coalescers

Regulators

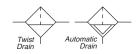
Filter / Regulators

Lubricators

¢

Miniature / Inline Products

- Interchangeable twist and automatic pulse drains
- 1/8" & 1/4" ports (NPT, BSPP & BSPT)



Port Size	Description [‡]	Part Number
1/8"	Poly Bowl, Twist Drain	14F01BB
1/8"	Metal Bowl, Twist Drain	14F03BB
1/8"	Poly Bowl, Auto Pulse Drain	14F05BB
1/8"	Metal Bowl, Auto Pulse Drain	14F07BB
1/4"	Poly Bowl, Twist Drain	14F11BB
1/4"	Metal Bowl, Twist Drain	14F13BB
1/4"	Poly Bowl, Auto Pulse Drain	14F15BB
1/4"	Metal Bowl, Auto Pulse Drain	14F17BB

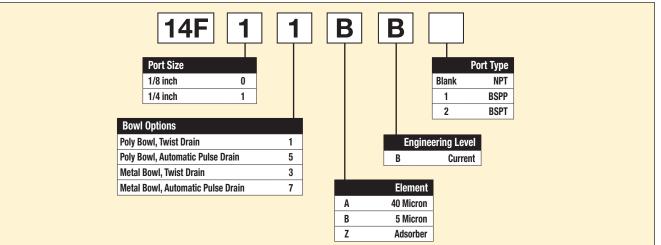
For polycarbonate bowl, see caution in Engineering Section A.



Operating information

Supply pressure (max): Plastic bowl Metal bowl Auto pulse drain		0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar) 10 to 250 psig (0.7 to 17.2 bar)
Operating temperature: Plastic bowl Metal bowl Auto pulse drain		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 125°F (52°C) or less
Flow capacity [†] : High flow	1/8" 1/4"	22 scfm (10.4 dm ³ /s, ANR) 24 scfm (11.3 dm ³ /s, ANR)
Bowl capacity:		1 oz.
Auto pulse drain tube ba	ırb	1/8 inch
Weight:		0.41 lb (0.18 kg)
 scfm = Standard cubic fee 5 psig pressure drop. 	et per min	ute at 90 psig inlet and

Ordering Information:



Most popular.



-	
Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl without sight gauge	Zinc
Deflector, element holder & baffle	Plastic
Twist drain, body & stem	Plastic
Twist drain, seals	Nitrile
Auto pulse drain, piston & seals	Nitrile
Auto pulse drain, stem, seat, adaptor & washers	Aluminum
Element	Plastic
Adsorber (optional)	Activated
	charcoal
Seals	Nitrile

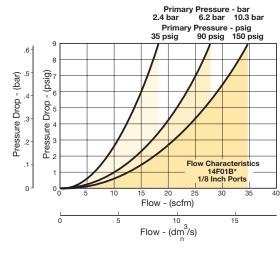
Repair and Service Kits

Poly bowl / auto pulse drain	PS408BP
Poly bowl / twist drain	PS404P
Metal bowl / auto pulse drain	PS451BP
Metal bowl / twist drain	PS447BP
40 Micron element	PS401P
5 Micron element	PS403P
5 Micron cartridge kit	PS407P
Adsorber element	PS452P
Mounting bracket kit	PS417BP

Air Preparation Products Miniature / Inline

Flow Charts

14F 1/8" Particulate Filter



Filters

Coalescers

Regulators

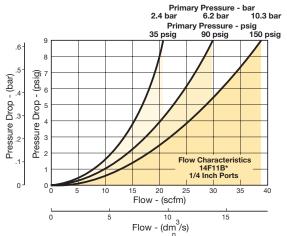
Filter / Regulators

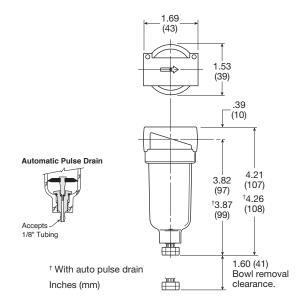
Lubricators

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Miniature / Inline Products

14F 1/4" Particulate Filter







02F Coalescing Filters – Miniature

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

Element

Grade 6 (0.01 micron)

Grade 10 (1.0 micron)

Grade 6 (oil activated dye)

• Disposable.

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

¢

Miniature / Inline Products Port

Size

1/4" I.D.

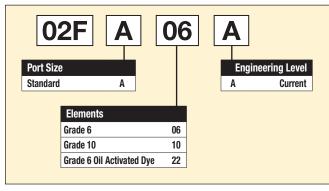
Application

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

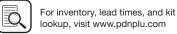


	Operating information		
	Pressure & tem	perature:	100 psig at 125°F (0.69 bar at 52°C) or less
Part Number	High flow [†] :	Grade 6 Grade 10	3.5 scfm (1.65 dm ³ /s, ANR) 5.3 scfm (2.50 dm ³ /s, ANR)
02FA06A	Port size:		1/4 I.D. hose slip on
02FA10A			tang standard
02FA22A	[†] scfm @ 1 psid operating pressure 100 psig.		

Ordering Information:

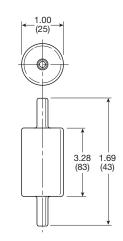






J8

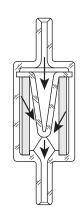
Element	Borosilicate & Felt Glass Fibers
Housing	Nylon



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.

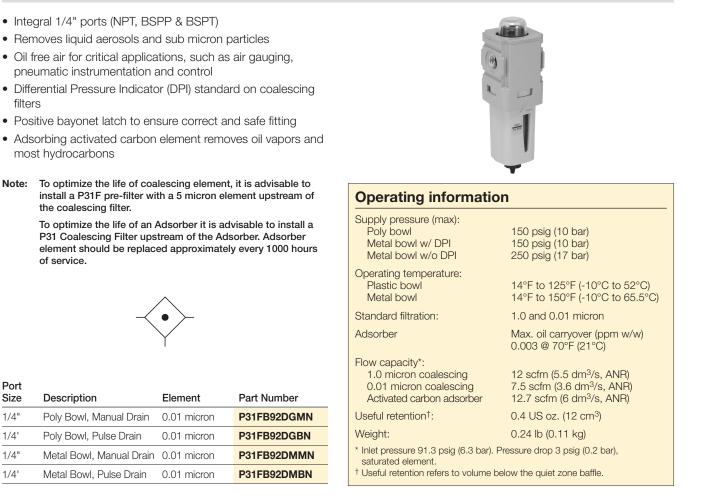




Filters



P31 Coalescing and Adsorber Filters – Mini



Ordering Information:

Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

Products

Miniature / Inline

Port

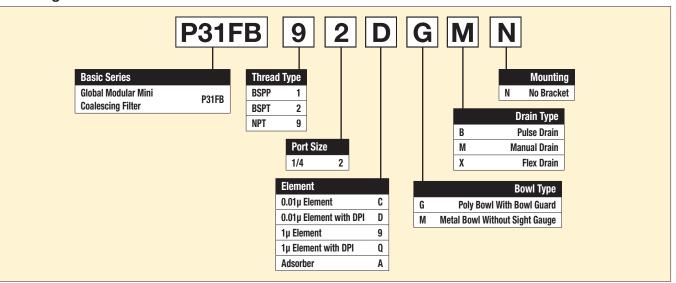
Size

1/4"

1/4'

1/4"

1/4'



Most popular.



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

Catalog 0700P-8 Mini Coalescing and Adsorber Filters

Material Specifications

Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Filter element	Borosilicate cloth
Adsorber element	Activated carbon
Seals	Nitrile

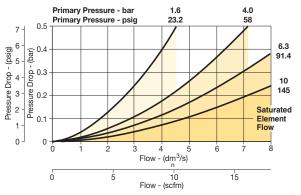
Repair and Service Kits

-	
Plastic bowl / bowl guard, manual drain	P31KB00BGM
Metal bowl / w/o sight gauge ,manual drain	P31KB00BMM
Plastic bowl / bowl guard, pulse drain	P31KB00BGB
Metal bowl / w/o sight gauge, pulse drain	P31KB00BMB
1µ coalescing filter element	P31KA00ES9
0.01µ coalescing filter element	P31KA00ESC
Activated carbon adsorber filter element	P31KA00ESA
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB
Differential pressure indicator (replacement)	P31KB00RQ

Air Preparation Products Miniature / Inline

Flow Charts

P31 - 1.0 micron flow Coalescing Filter



Filters

Coalescers

Regulators

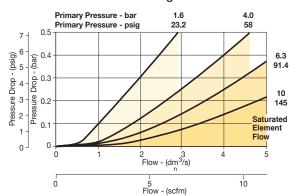
Filter / Regulators

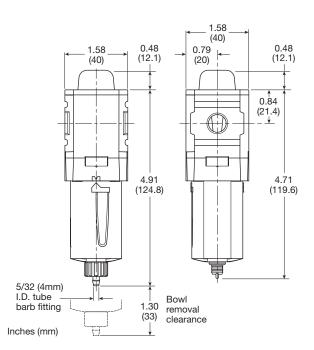
Lubricators

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Miniature / Inline Products







Manual Drain

Pulse Drain





10F Coalescing Filters – Miniature

- 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
- 1/8", 1/4" ports (NPT, BSPP, BSPT)
- Note: To optimize the life of coalescing element, it is advisable to install a pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of an adsorber it is advisable to install a coalescing filter upstream of the adsorber. Adsorber element should be replaced approximately every 1000 hours of service.



1/8"	Poly Bowl, Twist Drain	10F01ED
1/8"	Metal Bowl, Twist Drain	10F03ED
1/8"	Poly Bowl, Auto Pulse Drain	10F05ED
1/8"	Metal Bowl, Auto Pulse Drain	10F07ED
1/4"	Poly Bowl, Twist Drain	10F11ED
1/4"	Metal Bowl, Twist Drain	10F15ED
1/4"	Poly Bowl, Auto Pulse Drain	10F13ED
1/4"	Metal Bowl, Auto Pulse Drain	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.

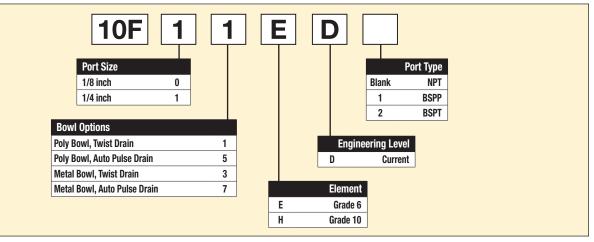
[‡] For polycarbonate bowl, see caution in Engineering Section A.

Ordering information:



Operating information

		0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar) 10 to 250 psig (0.7 to 17.2 bar)	
Operating pressure drop: Normal Max recommended (Element should be replaced)		2 psig (0.14 bar) 10 psig (0.7 bar)	
Operating temperature: Plastic bowl Metal bowl Auto pulse drain		32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 125°F (52°C) or less	
Flow capacity [†] : Grade 6			17 scfm (8 dm ³ /s, ANR) 20 scfm (9.4 dm ³ /s, ANR)
	Grade 10		19 scfm (9 dm ³ /s, ANR) 24 scfm (11.3 dm ³ /s, ANR)
Bowl capacity:		1 oz.	
Auto pulse drain tube barb		1/8 inch	
Weight:		0.41 lb (0.18 kg)	
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.			



Most popular.



C

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

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Port

Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl without sight gauge	Zinc
Twist drain, body & stem	Plastic
Twist drain, seals	Nitrile
Auto pulse drain, piston & seals	Nitrile
Auto pulse drain, stem, seat, adaptor & washers	Aluminum
Element holder	Plastic
Element	Borosilicate & felt glass fibers
Seals	Nitrile

Repair and Service Kits

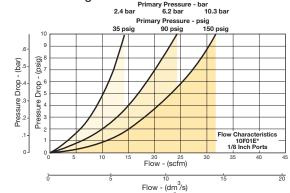
Poly bowl / auto pulse drain kit	PS408BP
Poly bowl / twist drain kit	PS404P
Metal bowl / auto pulse drain kit	PS451BP
Metal bowl / twist drain kit	PS447BP
Grade 6 element (standard)	PS446P
Grade 10 element (optional)	PS456P
Mounting bracket kit	PS417BP

Air Preparation Products Miniature / Inline

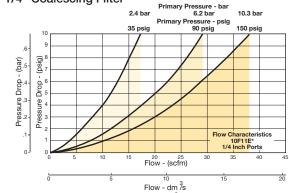
Flow Charts

Grade 6 Element

10F 1/8" Coalescing Filter



10F 1/4" Coalescing Filter

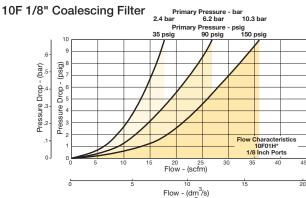


1.69 (43) 1.56 (39.6) 10 .39 (10) 4.21 (107) Automatic Pulse Drain 3.82 (97) 1/8" Tubing Ē 1.60 (41)

Inches (mm)

C

Grade 10 Element



10F 1/4" Coalescing Filter Primary Pressure - bar 6.2 bar 2 4 har 10.3 ha Primary Pressure - psig 90 psig 35 psig 150 psig Pressure Drop - (psig) Pressure Drop - (bar) Flow Characteristics 10F11H* 1/4 Inch Ports Flow - (scfm) Flow - (dm³/s)

Jarke

Accepts

For inventory, lead times, and kit lookup, visit www.pdnplu.com

J13

Bowl removal

clearance.

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



Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

15F Coalescing Filters – Economy

- 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.
- Differential pressure indicator standard.
- 1/4" & 3/8" ports NPT

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

C

Miniature / Inline Products Note: To optimize the life of coalescing element, it is advisable to install a pre-filter with a 5 micron element upstream of the coalescing filter.

To optimize the life of an adsorber it is advisable to install a coalescing filter upstream of the adsorber. Adsorber element should be replaced approximately every 1000 hours of service.



Port Size	Description [‡]	Part Number
1/4"	Poly Bowl, Metal Guard, Twist Drain	15F12EA
1/4"	Poly Bowl, Metal Guard, Auto Pulse Drain	15F1PEA
3/8"	Poly Bowl, Metal Guard, Twist Drain	15F22EA
3/8"	Poly Bowl, Metal Guard, Auto Pulse Drain	15F2PEA
+ -		

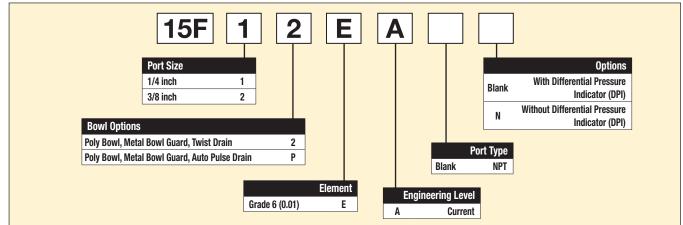
[‡] For polycarbonate bowl, see caution in Engineering Section A.



Operating information

Supply pressure (max): Without DPI Plastic bowl Metal bowl	0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar)	
With DPI Auto pulse drain	0 to 150 psig (0 to 10.3 bar) 10 to 150 psig (0.7 to 10.3 bar)	
Operating temperature: Plastic bowl Metal bowl With DPl	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C) 32°F to 125°F (0°C to 52°C)	
Flow capacity [†] : Grade 6	1/8" 30 scfm (14.2 dm ³ /s, ANR) 1/4" 30 scfm (14.2 dm ³ /s, ANR)	
Bowl capacity:	2.0 oz.	
Sump capacity:	0.9 oz.	
Weight:	1.2 lb (0.54 kg)	
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop. DPI = Differential pressure indicator		

Ordering Information:



Most popular.



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Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl without sight gauge	Zinc
Bowl guards	Steel
Collar	Plastic
Drain	Plastic
Element	Borosilicate & felt glass fibers
Seals	Nitrile
Sight gauge, DPI	Polyamide (nylon)

Repair and Service Kits

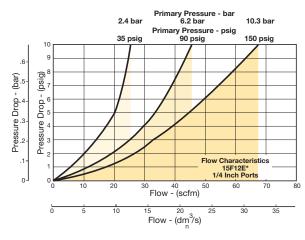
Bowl Guard Kit	PS905P
Poly bowl / automatic pulse drain kit	PS995P
Poly bowl / twist drain kit	PS932P
DPI replacement kit	PS781P
Electronic DPI replacement kit	PS764
Automatic pulse drain kit	PS998P
Twist drain kit	PS512P
Electrical connector: 15mm, 3-pin DIN, 6 ft. cord	PS2932JBP
Filter element kits – Grade 6 (standard)	PS924P
Mounting bracket kit	PS943P
Sight gauge kit	PS914P

Air Preparation Products Miniature / Inline

Flow Charts

Grade 6 Element

15F 1/4" Coalescing Filter



Filters

Coalescers

Regulators

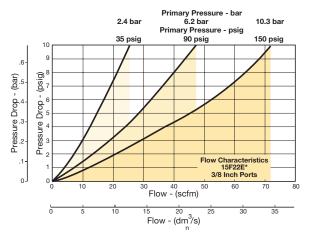
Filter / Regulators

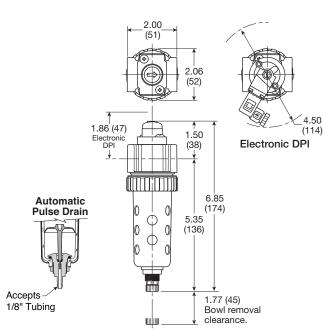
Lubricators

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Miniature / Inline Products

15F 3/8" Coalescing Filter





Inches (mm)



P31 Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Secondary pressure ranges
- · Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Relieving & non-relieving types
- Non-rising knob



Regulators Filter /

Lubricators

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Products Miniature / Inline

Filters





Self relieving regulator	
with gauge	

Non-relieving regulator

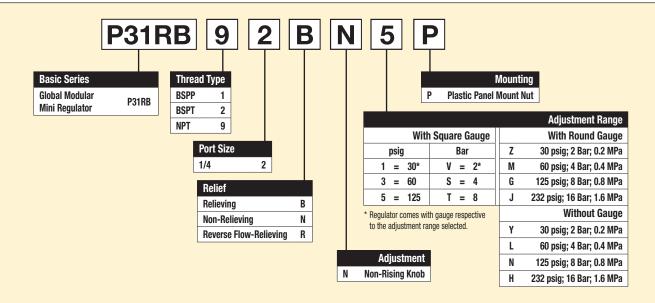
Port Size	Description (Relieving)	Gauge	Part Number
1/4"	125 psig (8 bar)	None	P31RB92BNNP
1/4"	125 psig (8 bar)	Square	P31RB92BN5P

Operating information

Flow capacity*:	1/4	68 scfm (32 dm ³ /s, ANR)
Operating temperate	ure†:	-4°F to 150°F (-20°C to 65.5°C)
Supply pressure (ma	ax):	300 psig (20 bar)
Adjusting range pres	ssure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 232 psig (0-16 bar)
Gauge port (2 each)	**	1/8 BSPP, BSPT, NPT
Weight:		0.37 lb (0.17 kg)
* Inlet pressure 145 p and 14.5 psig (1 bar		Secondary pressure 91.3 psig (6.3 bar) Irop.

- ** Non-gauge option only.
- [†] Units with square gauges: 5°F to 150°F (-15°C to 65.5°C)

Ordering Information:



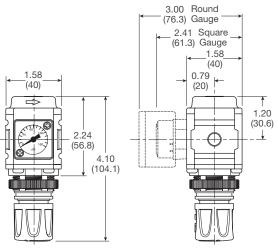




Body	Aluminum
Adjustment knob	Acetal
Bonnet	PBT
Diaphragm assembly	Brass / Nitrile
Valve assembly	Brass / Nitrile
Springs	Steel
Seals	Nitrile
Panel nut	Acetal

Repair and Service Kits

Diaphragm repair kit - relieving	P31KB00RB
Diaphragm repair kit - non-relieving	P31KB00RC
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB



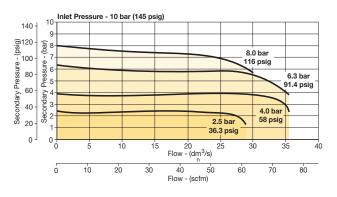
Inches (mm)

NOTE: 1.20 in. (30mm) hole required for panel nut mounting.

Air Preparation Products Miniature / Inline

Flow Charts

P31 1/4 Regulator



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.

Gauges

•		
Square flush	0-4 bar	K4511SCR04B
mount gauge	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160
Square with	0-4 bar	P6G-PR10040
adapter kit	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
1.00" Round 1/8"	0-60 psig / 0-4 bar	K4510N18060
center back mount	0-160 psig / 0-11 bar	K4510N18160
40mm Round 1/8"	0-30 psig / 0-2 bar	K4515N18030
(Not for use with common	0-60 psig / 0-4 bar	K4515N18060
port regulators)	0-160 psig / 0-11 bar	K4515N18160

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

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators





Air Preparation Products Miniature / Inline

14R Regulators – Miniature

- Unbalanced poppet standard
- · Solid control piston with lip seal for extended life
- Non-rising adjusting knob
- · Compact design
- Very easy to service
- 1/8", 1/4" ports (NPT, BSPP, BSPT)



Coalescers	

Filters

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Products Miniature / Inline

Port Size	Description	Part Number
1/8"	Without Gauge	14R013FC
1/8"	With Gauge	14R018FC
1/4"	Without Gauge	14R113FC
1/4"	With Gauge	14R118FC

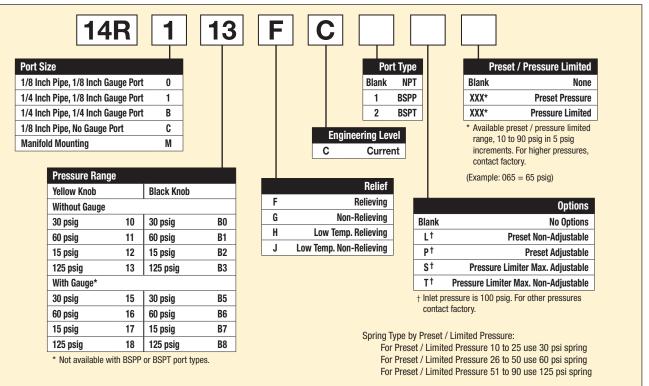
NOTE: 1.218 Dia. (31 mm) hole required for panel mounting.



Operating inf	ormation		
Supply pressure (ma	ax):	0 to 300 psig (0 to 20.7 bar)	
Secondary pressure Standard Medium Medium Low	ranges	2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 1 to 30 psig (0 to 2.1 bar) 1 to 15 psig (0 to 1 bar)	
Operating temperation		32°F to 125°F (0°C to 52°C) -4°F to 125°F (-20°C to 52°C)	
Flow capacity [†] : High flow	1/8" 1/4"	13 scfm (6.1 dm ³ /s, ANR) 15 scfm (7.1 dm ³ /s, ANR)	
Gauge ports (2):		1/8 or 1/4 inch	
Weight:		0.3 lb (0.14 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary			

setting and 10 psig pressure drop.

Ordering Information:



Most popular.



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(Revised 04-26-18)

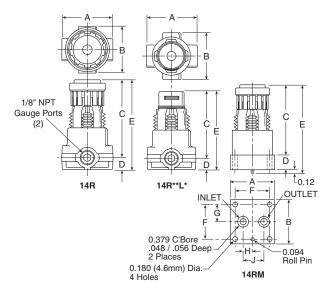
Material Specifications

Material Specifications	
Adjusting nut	Brass
Adjusting stem & spring	Steel
Body	Zinc
Bonnet, seat, piston & valve poppet	Plastic
Seals	Nitrile

Repair and Service Kits

•	
Bonnet assembly kit	L01369
Bonnet tamperproof kit	P01265
30 psig gauge, 1/8" NPT (0 to 2.1 bar)	K4515N18030
60 psig gauge, 1/8" NPT (0 to 4.1 bar)	K4515N18060
160 psig gauge, 1/8" NPT (0 to 11.0 bar)	K4515N18160
60 psig gauge, 1/4" NPT (0 to 4.1 bar)	K4520N14060
160 psig gauge, 1/4" NPT (0 to 11.0 bar)	K4520N14160
Mounting bracket kit* (includes panel mount nut)	PS417BP
Plastic panel mount nuts*	P78652
Metal panel mount nuts*	P01531
Unbalanced non-relieving, poppet / piston kit	PS428P
Unbalanced relieving, poppet / piston kit	PS426P
1-15 psig spring (yellow)	P01176
1-30 psig spring (black)	P01175
1-60 psig spring (white)	P01174
2-125 psig spring (gold)	P01173

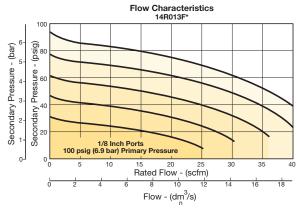
* Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.



Air Preparation Products Miniature / Inline

Flow Charts

14R 1/8" Regulators



Filters

Coalescers

Regulators

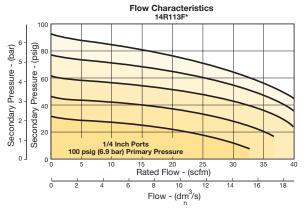
Filter / Regulators

Lubricators

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Miniature / Inline Products

14R 1/4" Regulators



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.





P3A-R Regulators – Miniature

- 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

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

-

Miniature / Inline Products • 1/8", 1/4" ports (NPT)



Port Size	Description	Part Number
1/4"	Without Gauge	P3A-RN92YNNN

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



Operating information				
Supply pressure (max):	120 psig (8.3 bar)			
Secondary pressure: 15 psig spring 30 psig spring 60 psig spring 110 psig spring	1 to 15 psig (0.07 to 1.0 bar) 6 to 30 psig (0.4 to 2.1 bar) 6 to 60 psig (0.4 to 4.1 bar) 6 to 110 psig (0.4 to 7.6 bar)			
Operating temperature:	32°F to 125°F (0°C to 52°C)			
Flow capacity [†] : High flow 1/8" 1/4"	13 scfm (6.1 dm ³ /s, ANR) 15 scfm (7.1 dm ³ /s, ANR)			
Gauge ports (2):	1/8 inch			
Weight:	0.3 lb (0.14 kg)			
[†] scfm = Standard cubic feet per minute setting and 10 psig pressure drop.	at 100 psig inlet, 90 psig no flow secondary			

Ordering Information:

Port Type					Prese	t / Pressure Limite
NPT Female 9					Blank	Nor
Port Size					XXX*	Preset Pressu
1/8 inch	1				XXX*	Pressure Limite
1/4 inch	2					reset / pressure limite
						o 90 psig in 5 psig . For higher pressures
Relief					contact fac	
Non-Re	ieving, Black Knob B				(Example: 06	5 = 65 psig)
	g, Black Knob N					
	ieving, Yellow Knob Q			0	ption	
Relievin	g, Yellow Knob Y			N	None	
	Pressure / Gauge				0	1
	Without Gauge		N		-	tions
	15 psig (0 to 1 bar)	A	N L†			otions
	30 psig (0 to 2 bar)	Y -	P [†]		Preset Non-Adjus Preset Adjus	
	60 psig (0 to 4 bar)	L	S†	Drocouro Li	miter Max. Adjus	
	120 psig (0 to 8 bar)	N	-		r Max. Non-Adjus	
	With Gauge	L			. For other press	
	15 psig (0 to 1 bar)		contact fa			105
	30 psig (0 to 2 bar)	Z				
	60 psig (0 to 4 bar)	M				
		G				

Most popular.



Catalog 0700P-8 Miniature Regulators

Material Specifications

•	
Adjusting nut	Brass
Adjusting stem & spring	Steel
Poppet return spring	Stainless Steel
Body	Plastic
Bonnet, seat & piston	Plastic
Seals	Nitrile
Valve poppet	Plastic & nitrile
Body Bonnet, seat & piston Seals	Plastic Plastic Nitrile

Repair and Service Kits

30 psig gauge, 1/8" NPT (0 to 2.1 bar)	K4515N18030
60 psig gauge, 1/8" NPT (0 to 4.1 bar)	K4515N18060
160 psig gauge, 1/8" NPT (0 to 11.0 bar)	K4515N18160
Mounting bracket kit* (includes panel mount nut)	PS417BP
Panel mount nut*	P78652
Unbalanced non-relieving, poppet / piston kit	PS428P
Unbalanced relieving, poppet / piston kit	PS426P
1-15 psig Spring (yellow)	P01176
1-30 psig spring (black)	P01175
1-60 psig spring (white)	P01174
5-110 psig spring (gold)	P01173

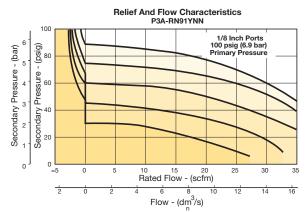
* Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.

Inches (mm)

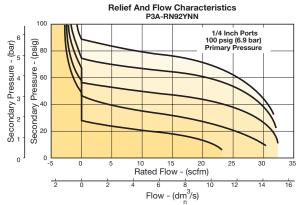
Air Preparation Products Miniature / Inline

Flow Charts

P3A-R 1/8" Regulator



P3A-R 1/4" Regulator



\land WARNING

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

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.





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Regulators		
Filter /	Regulators	
Lubricators		

Filters

oalescers

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R34 Regulators – Miniature

- Diaphragm operated for fast response
- · 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

Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

Products Miniature / Inline Port

Size

1/8"

1/8"

1/8"

1/4"

1/4"

1/4"

Manifold

Manifold

Manifold

- Available with a manifold mount to minimize plumbing
- Suitable for low temperature applications
- Non-rising adjusting knob
- 1/8", 1/4" ports (NPT, BSPP)

Relieving





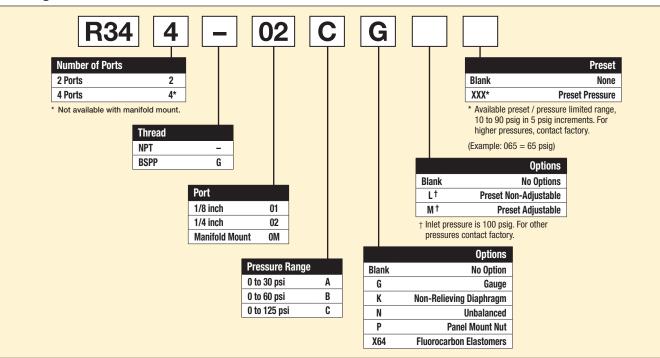


R344-02C

R342-0MC

	Part Number				
	Part Number		Operating infor	rmat	ion
Description	Without Gauge	With Gauge	Operating infor	mai	
Relieving, 0 to 30 psig	R344-01A	R344-01AG	Supply pressure (max):	:	300 psig (0 to 20.7 bar)
Relieving, 0 to 60 psig	R344-01B	R344-01BG	Operating temperature	e:	-40°F to 150°F (-40°C to 65.5°C)
Relieving, 0 to 125 psig	R344-01C	R344-01CG	Flow capacity [†] : High flow 1/	/8"	17 scfm (8.0 dm ³ /s, ANR)
Relieving, 0 to 30 psig	R344-02A	R344-02AG	5 -	/4"	19 scfm (8.9 dm ³ /s, ANR)
Relieving, 0 to 60 psig	R344-02B	R344-02BG	Gauge ports (2):		1/8 inch
Relieving, 0 to 125 psig	R344-02C	R344-02CG	Weight:		(no gauge port version available) 0.25 lb (0.11 kg)
Relieving, 0 to 30 psig	R342-0MA	-	Ŭ	feet per	minute at 100 psig inlet, 90 psig no flow
Relieving, 0 to 60 psig	R342-0MB	-	secondary setting and 10		
Relieving, 0 to 125 psig	R342-0MC	-			

Ordering Information:



Most popular.



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(Revised 04-26-18)

Air Preparation Products Miniature / Inline

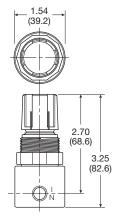
Material Specifications

-	
Body	Aluminum
Bonnet	Acetal
Diaphragm & seals	Nitrile
Valve assembly	Brass
Springs	Steel
Panel Nut	Acetal

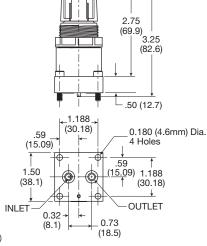
Repair and Service Kits

-	
Diaphragm assembly, non-relieving	GRP-96-726
Diaphragm assembly, relieving	GRP-96-725
0 to 30 psig (0 to 2.1 bar), spring, regulating	GRP-95-111
0 to 60 psig (0 to 4.1 bar) spring, regulating	GRP-96-718
0 to 125 psig (0 to 8.6 bar) spring, regulating	GRP-96-717
Panel mount nut, aluminum	R05X51-A
Panel mount nut, plastic	R05X51-P
Mounting bracket kit (includes panel mount nut)	SA161X57
1-1/2" Dial Face, 1/8 NPT, CBM, 0 to 60 psig (0 to 4.1 bar), gauge	K4515N18060
1-1/2" Dial Face, 1/8 NPT, CBM, 0 to 160 psig (0 to 11.0 bar), gauge	K4515N18160
Tamperproof knob kit	P31KB00AT

R342 / R344



R342-0MC



Inches (mm)

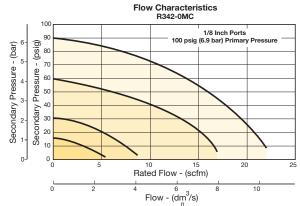


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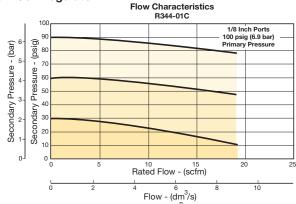
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Flow Charts

R34 1/8" Manifold Mount



R34 1/8" Regulator



R34 1/4" Regulator Flow Characteristics R344-02C 100 1/4 Inch Ports 90 100 psig (6.9 bar) Primary Pressure Secondary Pressure - (psig) Secondary Pressure - (bar) 80 70 60 50 40 30 20 10 0 ل 20 Rated Flow - (scfm) 10

\land WARNING

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

Flow - (dm³/s)

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.

Lubricators Filter / Regulators

Filters

Coalescers

Regulators

25

Operating information

Supply pressure (max):

Operating temperature:

Gauge ports (2):

Weight:

R25 Regulators – Miniature

- Lightweight plastic body
- Unbalanced poppet standard
- Non-rising, push-to-lock adjusting knob
- Compact, 3.10 Inch (79 mm) high by 1.60 Inch (41 mm) wide
- Lightweight

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

-

Products Miniature / Inline

- Diaphragm operated
- 1/8", 1/4" ports (NPT)



Inlet 150 psig (10.0 bar) 40°F to 125°F (4°C to 52°C)

(can be used for full flow)

0.25 lb (0.11 kg)

1/8 inch

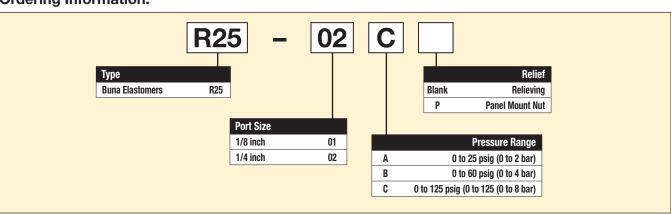
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Port Size	Description	Part Number
1/8"	Relieving, 0-125 Reduced Pressure, without Gauge	R25-01C
1/4"	Relieving, 0-125 Reduced Pressure, without Gauge	R25-02C

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

Ordering Information:



Most popular.



C

Catalog 0700P-8 Miniature Regulators

Material Specifications

•	
Adjusting screw	Steel
Body	Acetal
Bonnet and seat	Acetal
Diaphragm	Buna N
Seals	Buna N
Springs	Stainless steel
Valve poppet	Buna N

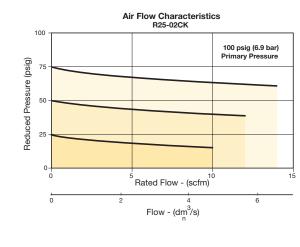
Repair and Service Kits

Panel mount nut, plastic	R05X51-P
Panel mount nut, aluminum	R05X51-A
Mounting bracket and nut	SA161X57
Relieving (Buna)	RKR25Y
Non-Relieving (Buna)	RKR25KY
0-25 psig spring	SPR-375-1
0-60 psig spring	SPR-376
0-125 psig spring	SPR-377

Air Preparation Products Miniature / Inline

Flow Charts

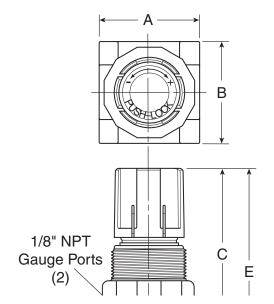
R25 1/4" Regulator



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.



Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

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R45 Regulators – Miniature

- Lightweight plastic body
- Unbalanced poppet standard
- Non-rising, push-to-lock adjusting knob
- Compact, 3.43 inch (87.1 mm) high by 2.06 inch (52.3 mm) wide
- Lightweight

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

-

Miniature / Inline Products

- Diaphragm operated
- 1/4", 3/8" ports (NPT)





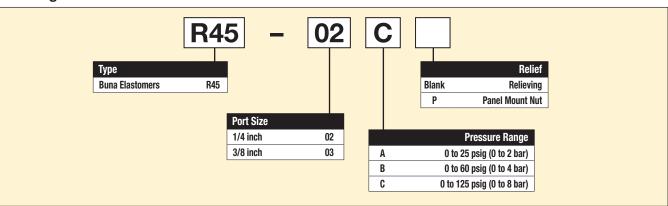
Port Size	Description	Part Number
1/4"	Relieving, 0-125 Reduced Pressure, without Gauge	R45-02C
3/8"	Relieving, 0-125 Reduced Pressure, without Gauge	R45-03C

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

Operating information

Supply pressure (max):	Inlet 150 psig (10.0 bar)
Operating temperature:	40°F to 125°F (4°C to 52°C)
Gauge ports (2):	1/4 inch (can be used for full flow)
Weight:	0.38 lb (0.17 kg)

Ordering Information:



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J26

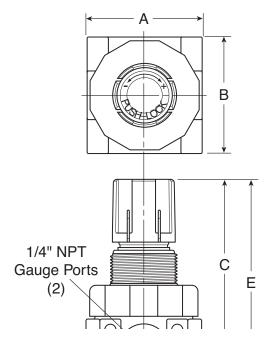
Catalog 0700P-8 Miniature Regulators

Material Specifications

•	
Adjusting screw	Steel
Body	Acetal
Bonnet and seat	Acetal
Diaphragm	Buna N
Seals	Buna N
Springs	Stainless steel
Valve Poppet	Buna N

Repair and Service Kits

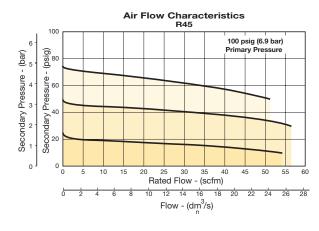
Panel mount nut, plastic	R05X51
Panel mount nut, aluminum	R05X51-A
Mounting bracket and nut	SA161X57
Relieving	RKR45Y
Non-Relieving	RKR45KY
0-25 psig spring	SPR-46
0-60 psig spring	SPR-47
0-125 psig spring	SPR-48



Air Preparation Products Miniature / Inline

Flow Charts

R45 1/4" Regulator



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. Filters

Coalescers

Regulators

Filter / Regulators

Lubricators



C

15R Regulators – Economy

- Solid control piston with resilient seat for service-free operation
- Non-rising "locking" adjusting knob
- Compact, 3.30 inch (84 mm) high by 2.12 inch (54 mm) wide
- Easily serviced

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

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Miniature / Inline Products • 1/4", 3/8" ports (NPT)



	art Number
1/4" With Gauge 15R	R113FB
3	R118FB
3/8" Without Gauge 15R	R213FB
3/8" With Gauge 15R	R218FB

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

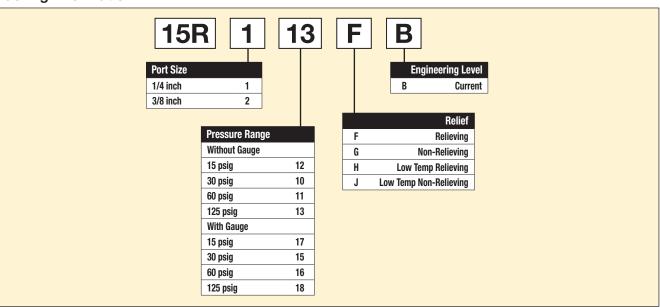


Operating information

Supply pressure (m	,	0 to 250 psig (0 to 17.2 bar)
Secondary pressur	e ranges	
Standard	Ũ	2 to 125 psig (0 to 8.6 bar)
Medium		1 to 60 psig (0 to 4.1 bar)
Medium		
		1 to 30 psig (0 to 1.7 bar)
Low		1 to 15 psig (0 to 1 bar)
Operating tempera	ture:	32°F to 125°F (0°C to 52°C)
Low temperature		-4°F to 125°F (-20°C to 52°C)
Low temperature	5	-41 10 1231 (-20 0 10 32 0)
Flow capacity [†] :		
High flow	1/4"	21 scfm (9.9 dm ³ /s, ANR)
i iigii iicii	3/8"	$28 \text{ scfm} (13.2 \text{ dm}^3/\text{s}, \text{ANR})$
	0/0	
Gauge ports (2):		1/4 inch
		(can be used at full flow)
M/sislat.		0.5 lb (0.00 ltm)
Weight:		0.5 lb (0.23 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary		

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

Ordering Information:



Most popular.



Catalog 0700P-8 **Economy Regulators**

Material Specifications

Adjusting nut	Brass
Adjusting stem & spring	Steel
Body	Zinc
Bonnet, seat, piston & valve poppet	Plastic
Seals	Nitrile

Repair and Service Kits

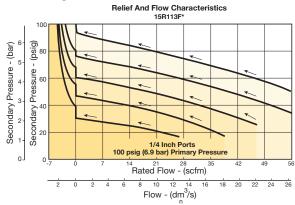
•	
Body Service Kit – Unbalanced	PS424BP
Bonnet Assembly Kit	L01369
30 psig, 1/8" NPT (0 to 2.1 bar) gauge	K4515N18030
60 psig, 1/8" NPT (0 to 4.1 bar) gauge	K4515N18060
160 psig, 1/8" NPT (0 to 11.0 bar) gauge	K4515N18160
60 psig, 1/4" NPT (0 to 4.1 bar) gauge	K4520N14060
160 psig, 1/4" NPT (0 to 11.0 bar) gauge	K4520N14160
Mounting bracket kit* (Includes panel mount nut)	PS417BP
Panel mount nuts*, plastic	P78652
Panel mount nuts*, metal	P01531
Poppet / piston kit, unbalanced, non-relieving	PS428P
Poppet / piston kit, unbalanced, relieving	PS426P
Seal, unbalanced	PS454B
1-15 psig spring (yellow)	P01176
1-30 psig spring (black)	P01175
1-60 psig spring (white)	P01174
2-125 psig spring (gold)	P01173

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

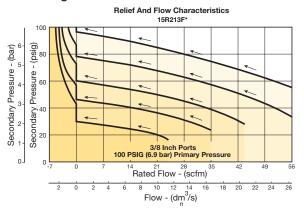
Air Preparation Products Miniature / Inline

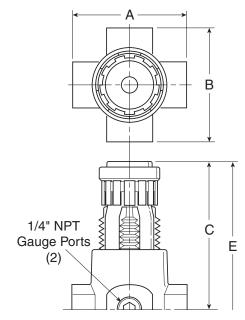
Flow Charts

15R 1/4" Regulator



15R 3/8" Regulator



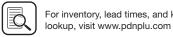


Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating.

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.





P31 Filter / Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

Miniature / Inline Products Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation



Operating information

Flow capacity*: 1/4	32 scfm (15 dm ³ /s, ANR)	
Operating temperature [‡] : Plastic bowl Metal bowl	14°F to 125°F (-10°C to 52°C) 14°F to 150°F (-10°C to 65.5°C)	
Supply pressure (max): Plastic bowl Metal bowl Standard filtration	150 psig (10 bar) 250 psig (17 bar) 5 micron	
Useful retention [†] :	0.4 US oz. (12 cm ³)	
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)	
Gauge port (2 each)**:	1/8 NPT, BSPP, BSPT	
Weight:	0.42 lb (0.19 kg)	
 * Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop. ** Non-gauge option only. ‡ Units with square gauges: 5°F to 150°F (-15°C to 65.5°C) † Useful retention refers to volume below the quiet zone baffle. 		

Within ISO 8573-1: 1991 Class 3 (Particulates) Within ISO 8573-1: 2001 Class 6 (Particulates)

Port Size	Description (relieving)	Bowl / Drain Type	Part Number
1/4"	125 psig (8 bar)	Poly / Manual	P31EB92EGMBN5P
1/4"	125 psig (8 bar)	Poly / Pulse	P31EB92EGBBN5P
1/4"	125 psig (8 bar)	Metal / Manual	P31EB92EMMBN5P
1/4"	125 psig (8 bar)	Metal / Pulse	P31EB92EMBBN5P

Ordering Information:

P31EB 9 2 G M Ε В 5 Ρ **Basic Series** Thread Type Element Adjustment Mounting 5µ Element E **Plastic Panel Global Modular Mini BSPP** N Non-Rising Knob 1 P31EB Р Filter / Regulator Mount Nut 2 BSPT Relief 9 NPT Relieving В Non-Relieving Ν Port Size 1/4 2 Adjustment Range With Round Gauge With Square Gauge Bowl Type 30 psig; 2 Bar; 0.2 MPa Ζ psig bar Poly Bowl With Bowl Guard G $1 = 30^*$ $V = 2^*$ М 60 psig; 4 Bar; 0.4 MPa Metal Bowl Without Sight Gauge M 3 = 60 S = 4G 125 psig; 8 Bar; 0.8 MPa J§ 232 psig; 16 Bar; 1.6 MPa **Drain Type** 5 = 125 T = 8 **Pulse Drain** В Without Gauge * Regulator comes with Manual Drain Μ gauge respective to the Y 30 psig; 2 Bar; 0.2 MPa adjustment range selected. L 60 psig; 4 Bar; 0.4 MPa § Not available with poly Ν 125 psig; 8 Bar; 0.8 MPa bowl with bowl guard. H§ 232 psig; 16 Bar; 1.6 MPa

Air quality:

Most popular.



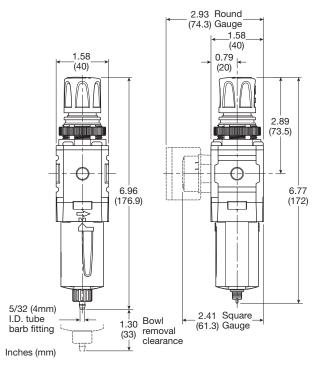
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-	
Body	Aluminum
Adjustment knob	Acetal
Body cap	ABS
Bonnet	PBT
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Bowl guard	Nylon
Filter element	Polyethylene
Seals	Nitrile
Springs	Steel
Valve assembly	Brass / Nitrile
Diaphragm assembly	Brass / Nitrile
Panel nut	Acetal

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.



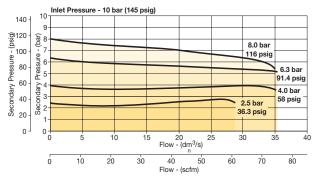
Manual Drain

Pulse Drain

Air Preparation Products Miniature / Inline

Flow Charts

P31 1/4 Filter / Regulator



Repair and Service Kits

Plastic bowl / bowl guard manual drain	P31KB00BGM
Plastic bowl / bowl guard pulse drain	P31KB00BGB
Metal bowl / w/o sight gauge pulse drain	P31KB00BMB
5µ particle filter element	P31KA00ESE
Diaphragm repair kit - relieving	P31KB00RB
Diaphragm repair kit - non-relieving	P31KB00RC
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB

Gauges

J		
Square flush	0-4 bar	K4511SCR04B
mount gauge	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160

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

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

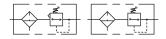




For inventory, lead times, and kit lookup, visit www.pdnplu.com

B34 Filter / Regulator – Miniature

- 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
- 1/8", 1/4" ports (NPT, BSPP)



Port Size	Description [‡]	Part Number
1/8"	Poly Bowl, Twist Drain	B344-01AGC
1/8"	Metal Bowl, Twist Drain	B344-01DGC
1/4"	Poly Bowl, Twist Drain	B344-02AGC
1/4"	Metal Bowl, Twist Drain	B344-02DGC

For polycarbonate bowl, see caution in Engineering Section A.
 NOTE: 1.218 Dia. (31 mm) hole required for panel mounting.

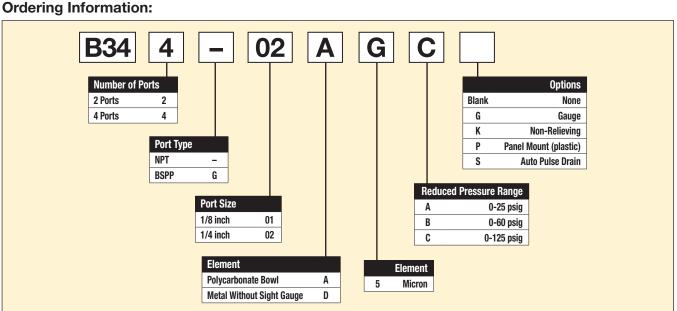


Operating information

Supply pressure (ma Zinc bowl (D) Poly bowl (A)	ax):	0 to 300 psig (0 to 20.7 bar) 0 to 150 psig (0 to 10.3 bar)		
Operating temperat	ure:	40°F to 150°F (4.4°C to 52°C)		
Reduced pressure r	ange:			
		0 to 25 psig (0 to 1.7 bar) 0 to 60 psig (0 to 4.1 bar) 2 to 125 psig (0.15 to 8.5 bar)		
Flow capacity [†] :				
High flow	1/8" 1/4"	17 scfm (8 dm ³ /s, ANR) 19 scfm (9 dm ³ /s, ANR)		
Bowl capacity:		1 oz.		
Weight:	Zinc bowl Poly bowl	0.6 lb (0.27 kg) 0.3 lb (0.14 kg)		
[†] scfm = Standard cubic feet per minute at 100 psig inlet and 75 psig no				

scm = Standard cubic feet per minute at 100 psig inlet and 75 psig no psig no flow secondary setting and 25% pressure drop.

() Bowl type



Most popular.



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

Filters

Coalescers

Regulators

Filter / Regulators

Lubricators

•	
Adjusting Knob	Acetal
Body	Aluminum
Polycarbonate bowl (A)	Polycarbonate
Metal bowl (D)	Zinc
Elastomers	Buna N
Filter Element	Sintered polyethylene
Filter retainer, vane plate	Acetal
Innervalve, diaphragm, button, drain	Brass

Repair and Service Kits

•	
Adjusting knob	RRP-16-005-000
Zinc bowl (D)	BK505Y
Zinc bowl with auto pulse drain (D)	BK505SY
Polycarbonate bowl (A)	BK504Y
Polycarbonate bowl with auto pulse drain (A)	BK504SY
Automatic pulse drain (Maximum pressure = 175 psig)	RK504SY
5 micron element (All)	FRP-96-729
1-1/2" dial size, 1/8" back connection 0 to 60 psig (0 to 400 kPa), gauge	K4515N18060
1-1/2" dial size, 1/8" back connection 0 to 160 psig (0 to 1100 kPa), gauge	K4515N18160
Mounting bracket kit (includes plastic panel nut)	SA161X57
Panel mount nut, plastic	R05X51-P
Panel mount nut, aluminum	R05X51-A
Non-relieving diaphragm, valve assembly (All)	GRP-96-726
Relieving diaphragm, valve assembly (All)	GRP-96-725
0-25 psig gauge	GRP-95-111
0-60 psig gauge	GRP-96-718
0-125 psig gauge	GRP-96-717

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

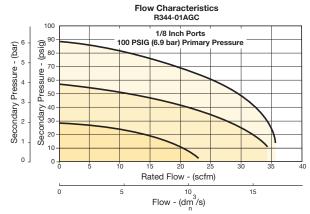
CAUTION:

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.

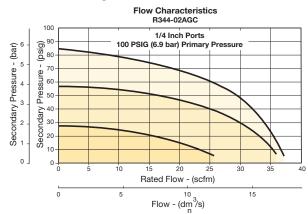
Air Preparation Products Miniature / Inline

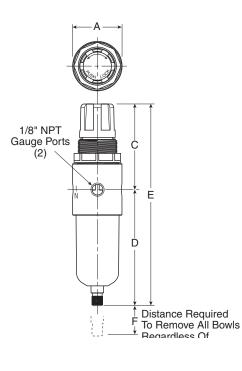
Flow Charts

B34 1/8" Filter / Regulator



B34 1/4" Filter / Regulator





Lubricators Filter / Regulators Coalescers Filters Regulators





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Parker Hannifin Corporation Pneumatic Division Richland, Michigan

Richland, Michigan www.parker.com/pneumatics

14E Filter / Regulator – Miniature

- 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

Filters

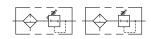
Coalescers

Regulators

Regulators Filter /

Lubricators

- Two full flow 1/8" gauge ports
- 1/8", 1/4" ports (NPT, BSPP, BSPT)



Port Size	Description [‡]	Part Number	
1/8"	Poly Bowl, Twist Drain	14E01B13FC	
1/8"	Metal Bowl, Twist Drain	14E03B13FC	
1/8"	Poly Bowl, Auto Pulse Drain	14E05B13FC	
1/8"	Metal Bowl, Auto Pulse Drain	14E07B13FC	
1/4"	Poly Bowl, Twist Drain	14E11B13FC	
1/4"	Metal Bowl, Twist Drain	14E13B13FC	
1/4"	Poly Bowl, Auto Pulse Drain	14E15B13FC	
1/4"	Metal Bowl, Auto Pulse Drain	14E17B13FC	
[‡] For polycarbonate bowl, see caution in Engineering Section A.			

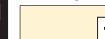
NOTE: 1.218 Dia. (31 mm) hole required for panel mounting.



Operating information

Supply pressure Plastic bowl Metal bowl	(max):	0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar)	
Secondary press Standard Medium Medium Low	ure ranges	2 to 125 psig (0 to 8.6 bar) 1 to 30 psig (0 to 2.1 bar) 1 to 60 psig (0 to 4.1 bar) 1 to 15 psig (0 to 1 bar)	
Operating tempe Plastic bowl Metal bowl	rature:	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)	
Flow capacity [†] : High flow	1/8" 1/4"	16 scfm (7.6 dm ³ /s, ANR) 18 scfm (8.5 dm ³ /s, ANR)	
Bowl capacity:		1 oz.	
Auto pulse drain tube barb		1/8 inch	
Gauge ports (2):		1/8 inch (can be used as additional full flow)	
Weight:		0.4 lb (0.18 kg)	
t a star Otava da val	and the family is an	and a state of the second	

[†] scfm = Standard cubic feet per minute at 100 psig inlet and 10 psig pressure drop.



Ordering Information:

2

14E 1	1	В	1:	3 F		C			
Port Size1/8 inch01/4 inch1					Eng C	ineering Level Current			Preset / Pressure Limited Blank None XXX* Preset Pressure
Bowl Options									XXX* Pressure Limited
Poly Bowl, Twist Drain	1				F	Relief			
Poly Bowl, Auto Pulse Drain	5			F	Reli	ieving	Po	rt Type	 Available preset / pressure limited range,
Metal Bowl, Twist Drain	3			G	Non-Reli	ieving	Blank	NPT	10 to 90 psig in 5 psig
Metal Bowl, Auto Pulse Drain	7			H* Lo	w Temp. Reli	ieving	1	BSPP	increments. For higher
	Element 40 Micron	A		* Twist draiı	n only.		2	BSPT	pressures, contact factory. (Example: 065 = 65 psig)
	5 Micron	В	Pressur	e Range					Options
	Adsorber	Z	Without (With Gauge	*		Blank	No options
			30 psig	10	30 psig	15		L†	Preset Non-Adjustable
			60 psig	11	60 psig	16		P†	Preset Adjustable
Spring Type by Preset / Limited Pressure:	20 noi onring		15 psig	12	15 psig	17		S †	Pressure Limiter Max. Adjustable
For Preset / Limited Pressure 10 to 25 use For Preset / Limited Pressure 26 to 50 use			125 psig	13	125 psig	18		T† Pr	essure Limiter Max. Non-Adjustable
For Preset / Limited Pressure 51 to 90 use			* Not ava	ilable with BSF	PP or BSPT po	ort types.		+ Inlet pres contact fa	sure is 100 psig. For other pressures actory.

Most popular.



C

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

Air Preparation Products Miniature / Inline

Flow Characteristics 14E01B13F*

Rated Flow - (scfm)

Flow - (dm³/s)

Flow Characteristics 14E11B13F*

Rated Flow - (scfm)

Flow - (dm/3/s)

B

Ð

1/4 Inch Ports 100 psig (6.9 bar) Primary

12

24

12

14E 1/8" Filter / Regulator

Flow Charts

100

(psig)

Pressure 60

Secondary

â

100

80

4٢ Secondary 2

0

1/8" NPT Gauge Ports

(psig)

Pressure 4 60

Secondary Pressure - (bar)

5

3

0.

14E 1/4" Filter / Regulator

Secondary Pressure - (bar)

0

Material Specifications

•	
Adjusting nut	Brass
Adjusting stem & spring	Steel
Body	Zinc
Bonnet, knob, seat, piston, holder & deflector	Plastic
Transparent bowl	Polycarbonate
Metal bowl (without sight gauge)	Zinc
Twist drain, body & stem	Plastic
Twist drain, seals	Nitrile
Auto pulse drain, piston & seals	Nitrile
Auto pulse drain, stem, seat, adaptor & washers	Aluminum
5 Micron elements (standard)	Plastic
40 Micron elements (optional)	Plastic
Adsorber elements (optional)	Activated charcoal
Seals	Nitrile

Repair and Service Kits

-	
Bonnet tamperproof kit	P01265
Poly bowl / auto drain	PS408BP
Poly bowl / twist drain	PS404P
Metal bowl / auto drain	PS451BP
Metal bowl / twist drain	PS447BP
40 micron element	PS401P
5 micron element	PS403P
Adsorber element	PS452P
30 psig (0 to 2.1 bar), gauge	K4515N18030
60 psig (0 to 4.1 bar)	K4515N18060
160 psig (0 to 11.0 bar) element	K4515N18160
Mounting bracket kit* (includes panel mount nut)	PS417BP
Panel mount nut*	P78652
Unbalanced, non-relieving	PS428P
Unbalanced, relieving	PS426P
1- 15 psig spring (yellow)	P01176
1- 30 psig spring (black)	P01175
1- 60 psig spring (white)	P01174
2- 125 psig spring (gold)	P01173

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

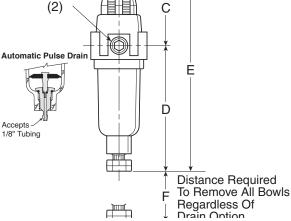
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating.

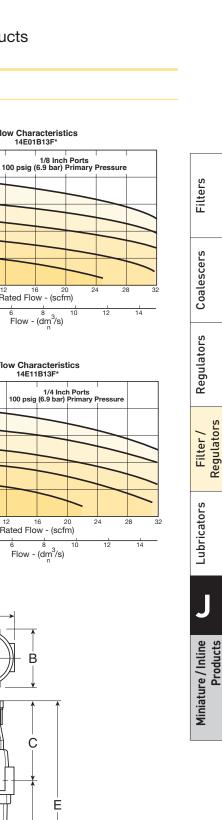
CAUTION:

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.



Accepts

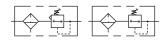




Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics

05E Filter / Regulator – Economy

- Space saving package offers both filter and regulator features for optimal performance
- Excellent water removal efficiency
- Rolling diaphragm for extended life
- Removable non-rising knob for tamper resistance
- Quick response, and accurate pressure regulation regardless of changing flow or inlet pressure
- 40 micron filter element standard
- 1/4", 3/8" ports (NPT)



Port

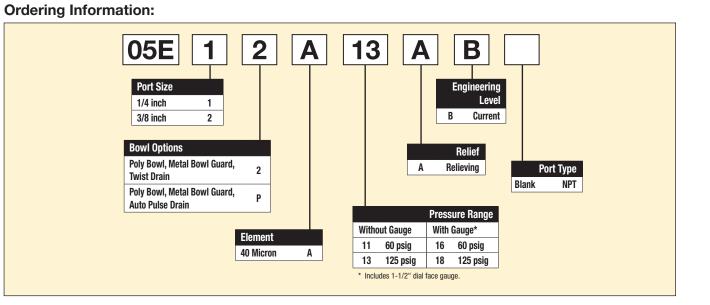
Size	Description ‡	Part Number
1/4"	Poly Bowl, Metal Guard, Twist Drain	05E12A13AB
1/4"	Poly Bowl, Metal Guard, Auto Pulse Drain	05E1PA13AB
3/8"	Poly Bowl, Metal Guard, Twist Drain	05E22A13AB
3/8"	Poly Bowl, Metal Guard, Auto Pulse Drain	05E2PA13AB

[‡] For polycarbonate bowl, see caution in Engineering Section A. NOTE: 1.53 Dia. (39 mm) hole required for panel mounting.



Operating information

Supply pressure (m Plastic bowl Metal bowl	ax):	0 to 150 psig (0 to 10.3 bar) 0 to 250 psig (0 to 17.2 bar)		
Operating temperat Plastic bowl Metal bowl	ure:	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)		
Flow capacity [†] : High flow	1/4" 3/8"	30 scfm (14.2 dm ³ /s, ANR) 40 scfm (18.9 dm ³ /s, ANR)		
Bowl capacity:		2 oz.		
Auto pulse drain tuk	be barb:	1/8 inch		
Gauge ports (2):		1/4 inch		
Sump capacity:		0.9 oz.		
Weight:		1.35 lb (0.6 kg)		
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.				



Most popular.



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Miniature / Inline Products

Regulators Filter /

Filters

Coalescers

Regulators

-	
Adjusting stem	Steel
Body	Zinc
Bonnet, internal parts	Plastic
Transparent bowl	Polycarbonate
Bowl guard	Steel
Collar	Plastic
Diaphragm	Nitrile
Drain	Plastic
40 micron element (standard)	Plastic
5 micron element (optional)	Plastic
Adsorber element (optional)	Activated charcoal
Knob	Plastic
Seals	Nitrile
Sight gauge	Polyamide (nylon)
Springs, poppet & control	Steel

Repair and Service Kits

Bowl guard kit	PS905P
Poly bowl, automatic pulse drain	PS995P
Poly bowl, twist drain	PS932P
Auto pulse drain	PS998P
Twist drain	PS512P
40 micron element	PS901P
5 micron element	PS902P
Adsorber element	PS931P
Sight gauge kit	PS914P
1-1/2" dial face 30 psig (0 to 2.1 bar), gauge	K4515N14030
1-1/2" dial face 60 psig (0 to 4.1 bar), gauge	K4515N14060
1-1/2" dial face 160 psig (0 to 11.0 bar), gauge	K4515N14160
1-1/2" dial face 300 psig (0 to 20.7 bar), gauge	K4515N14300
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
Mounting bracket kit (includes panel mount nut)	PS963P
Panel mount nut – metal	PS964P
1-30 psig spring	P04427
1-60 psig spring	P04426
2-125 psig spring	P04425
2-200 psig spring	P02934
Relieving service kit	PS908P
Bonnet assembly kit	PS915P

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.

For inventory, lead times, and kit

lookup, visit www.pdnplu.com

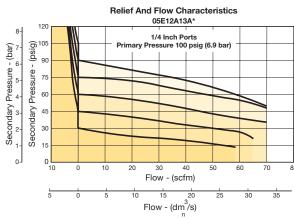




Air Preparation Products Miniature / Inline

Flow Charts

05E 1/4" Filter / Regulator



Filters

Coalescers

Regulators

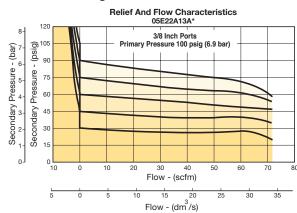
Regulators

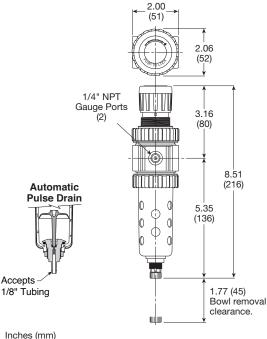
Filter /

Lubricators

Products Miniature / Inline

05E 3/8" Filter / Regulator





Inches (mm)

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

J37

02L Lubricator – Miniature

- 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

Filters

Coalescers

Regulators

Regulators

Filter /

Lubricators

ł

- Corrosion resistant
- Full swivel outlet port
- Integral 1/4", 3/8" ports (NPT, BSPT)



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.



Operating information

Supply pressure (max):		200 psig (13.8 bar)		
Operating temperature:		32°F to 150°F (0°C to 65.6°C)		
Flow capacity [†] : High flow	1/4" 3/8"	29 scfm (13.6 dm ³ /s, ANR) 30 scfm (14.2 dm ³ /s, ANR)		
Oil capacity:		0.25 oz. (7.4 cm ³)		
Weight:		0.2 lb (0.1 kg)		
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.				

Port Size	Description	Part Number
1/4"	Female Threads Inlet / Female Threads Outlet	02LFB
1/4"	Female Threads Inlet / Male Threads Outlet	02L1B
3/8"	Female Threads Inlet / Male Threads Outlet	02L2B

Miniature / Inline Products

Most popular.



C

Air Preparation Products Miniature / Inline

Material Specifications

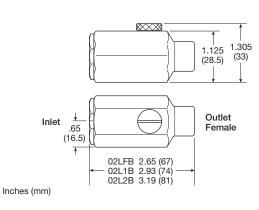
Body	Aluminum
Seals	Nitrile

Petroleum based oil of 100 to 200 SUS 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.)

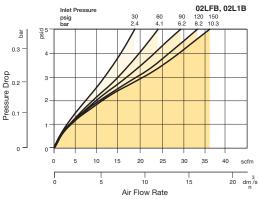
Replacement Kits

Fill plug kit, brass fill plug and o-ring	PS434
O-ring repair kit	PS435

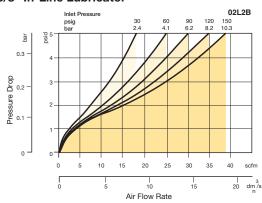


Flow Charts

02L 1/4" In-Line Lubricator



02L 3/8" In-Line Lubricator







J39

Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

2

Products Miniature / Inline

P31 Lubricators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Proportional oil delivery over a wide range of air flows
- Finger tip ratchet control for precise oil drip rate adjustment



with drain

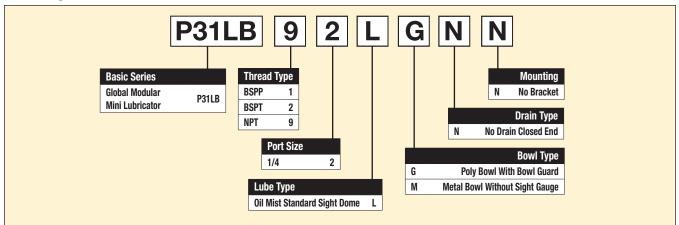
Port Size	Description	Part Number
1/4"	Poly Bowl - No Drain	P31LB92LGNN
1/4"	Metal Bowl - No Drain	P31LB92LMNN



Operating information

40 scfm (19 dm ³ /s, ANR)
14°F to 125°F (-10°C to 52°C) 14°F to 150°F (-10°C to 65.5°C)
14 1 10 130 1 (-10 0 10 05.5 0)
150 psig (10 bar)
250 psig (17 bar)
$0.6 \text{ US oz.} (18 \text{ cm}^3)$
0.29 lb (0.13 kg)
ar). Pressure drop 4.9 psig (0.34 bar).

Ordering Information:



Petroleum based oil of 100 to 200 SUS 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.)

C

Most popular.



Catalog 0700P-8 Mini Lubricators

Material Specifications

-	
Body	Aluminum
Body cap	ABS
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Seals	Nitrile
Sight dome	Polycarbonate
Suggested lubricant	ISO / ASTM VG32
Pick-up filter	Sintered bronze

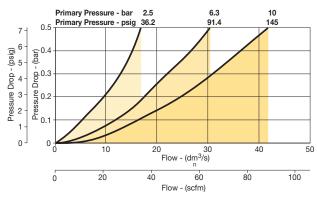
Repair and Service Kits

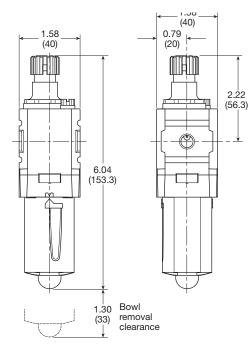
P31KB00BGN
P31KB00BMN
P32KA00PG
P31KA00PL
P31KA00MW
P31KA00MT
P31KA00CB
F442001
F442002
F442003
F442005

Air Preparation Products **Miniature / Inline**

Flow Charts

P31LB 1/4" Lubricator





Inches (mm)



04L Mist Lubricators – Miniature

- 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

Filters

Coalescers

Regulators

Regulators Filter /

Lubricators

J

Products Miniature / Inline • Integral 1/8", 1/4" ports (NPT, BSPP, BSPT)



Port Size	Description [‡]	Part Number
1/8"	Poly Bowl, No Drain	04L00GB
1/8"	Metal Bowl, No Gauge, Twist Drain	04L03GB
1/4"	Poly Bowl, No Drain	04L10GB
1/4"	Metal Bowl, No Gauge, Twist Drain	04L13GB
+ -		

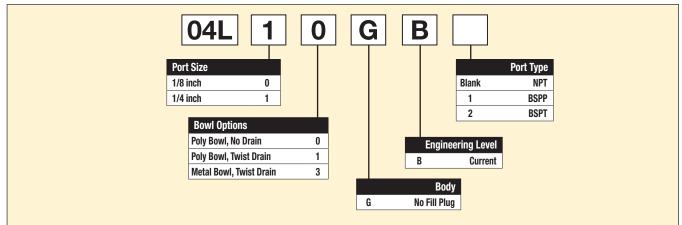
[‡] For polycarbonate bowl and sight dome, see caution in Engineering Section A.



Operating information

Supply pressure (max) Plastic bowl Metal bowl	:	150 psig (10.3 bar) 250 psig (17.2 bar)
Operating temperature Plastic bowl Metal bowl	9:	32°F to 125°F (0°C to 52°C) 32°F to 175°F (0°C to 80°C)
Flow capacity [†] : High flow	1/8" 1/4"	20 scfm (9.4 dm³/s, ANR) 20 scfm (9.4 dm³/s, ANR)
Minimum flow		0.5 scfm (0.24 dm ³ /s, ANR) at 100 psig (6.9 bar)
Bowl capacity:		1 oz.
Weight:		0.4 lb (0.18 kg)
[†] scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.		

Ordering Information:



Petroleum based oil of 100 to 200 SUS 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.)

Most popular.



Catalog 0700P-8 **Miniature Mist Lubricators**

Material Specifications

-	
Body	Zinc
Transparent bowls	Polycarbonate
Metal bowl (without sight gauge)	Zinc
Drains, twist – body & nut	Plastic
Seals	Nitrile
Sight dome	Polycarbonate

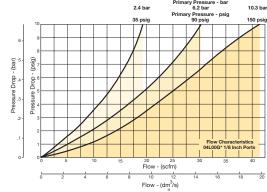
Repair and Service Kits

Poly bowl / no drain kit	PS421P
Poly bowl / twist drain kit	PS420P
Metal bowl / twist drain (no sight gauge) kit	PS447BP
Mounting bracket kit	PS419
Oil (1 quart)	F442001
Oil (1 gallon)	F442002
Oil (12 quart case)	F442003
Oil (4 gallon case)	F442005

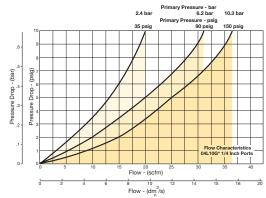
Air Preparation Products **Miniature / Inline**

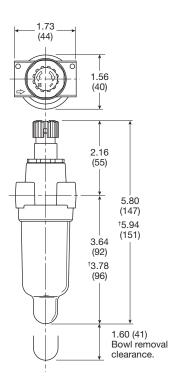
Flow Charts

04L 1/8" Lubricator



04L 1/4" Lubricator





Inches (mm)



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

Filter / Regulators Į Miniature / Inline Products

Filters

Coalescers

Regulators

Lubricators







(Revised 12-2-20)

Air Preparation Products Contents - www.parker.com/pneu/frl

ROH	

Air Preparation Products Regulators Products

General	K2-K41
Dial	K42-K49
Pilot	K50-K63
Proportional	K64-K89
Precision	K90-K103
Water	K104-K109





Air Preparation Products **14R Series**



Regulator Products

General

Dial

14R Regulators – Miniature

- Unbalanced poppet standard
- Solid control piston with lip seal for extended life
- Non-rising adjusting knob
- Compact design
- Very easy to service
- 1/8", 1/4" ports (NPT, BSPP, BSPT)



Port		
Size	Description	Part Number
1/8"	Without Gauge	14R013FC
1/8"	With Gauge	14R018FC
1/4"	Without Gauge	14R113FC
1/4"	With Gauge	14R118FC

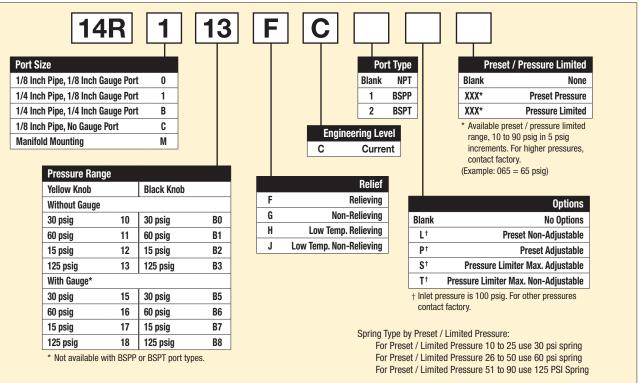
NOTE: 1.218 Dia. (31 mm) hole required for panel mounting.



Operating information					
Supply pressure (r	nax):	0 to 300 psig (0 to 20.7 bar)			
Secondary pressu Standard Medium Medium Low	re ranges	2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 1 to 30 psig (0 to 2.1 bar) 1 to 15 psig (0 to 1 bar)			
Operating temperation		32°F to 125°F (0°C to 52°C) -4°F to 125°F (-20°C to 52°C)			
Flow capacity [†] : High flow	1/8" 1/4"	13 scfm (6.1 dm³/s, ANR) 15 scfm (7.1 dm³/s, ANR)			
Gauge ports (2):		1/8 or 1/4 inch			
Weight:		0.3 lb (0.14 kg)			
† scfm – Standard cu	hic feet her minute	at 100 psig inlet 90 psig po flow secondary			

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

Ordering Information:



Most popular.



C

Catalog 0700P-8 Miniature Regulators

(Revised 04-26-18)

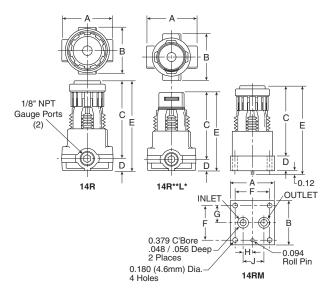
Material Specifications

•	
Adjusting nut	Brass
Adjusting stem & spring	Steel
Body	Zinc
Bonnet, seat, piston & valve poppet	Plastic
Seals	Nitrile

Repair and Service Kits

-	
Bonnet assembly kit	L01369
Bonnet tamperproof kit	P01265
30 psig gauge, 1/8" NPT (0 to 2.1 bar)	K4515N18030
60 psig gauge, 1/8" NPT (0 to 4.1 bar)	K4515N18060
160 psig gauge, 1/8" NPT (0 to 11.0 bar)	K4515N18160
60 psig gauge, 1/4" NPT (0 to 4.1 bar)	K4520N14060
160 psig gauge, 1/4" NPT (0 to 11.0 bar)	K4520N14160
Mounting bracket kit* (includes panel mount nut)	PS417BP
Plastic panel mount nuts*	P78652
Metal panel mount nuts*	P01531
Unbalanced non-relieving, poppet / piston kit	PS428P
Unbalanced relieving, poppet / piston kit	PS426P
1-15 psig spring (yellow)	P01176
1-30 psig spring (black)	P01175
1-60 psig spring (white)	P01174
2-125 psig spring (gold)	P01173

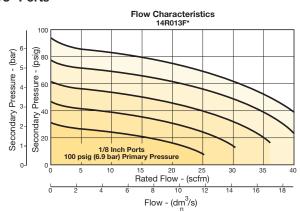
* Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.



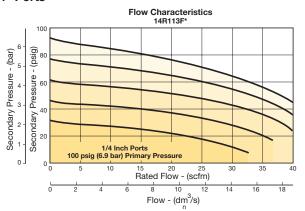
Air Preparation Products **14R Series**

Flow Charts





1/4" Ports



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. General

Dial



C

Air Preparation Products **P3A-R Series**

P3A-R Regulators – Miniature

Lightweight plastic body

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products

- 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
- 1/8", 1/4" ports (NPT)



Port Size	Description	Part Number
1/4"	Without Gauge	P3A-RN92YNNN

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



Operating information					
Supply pressure (max):	120 psig (8.3 bar)				
Secondary pressure: 15 psig spring 30 psig spring 60 psig spring 110 psig spring	1 to 15 psig (0.07 to 1.0 bar) 6 to 30 psig (0.4 to 2.1 bar) 6 to 60 psig (0.4 to 4.1 bar) 6 to 110 psig (0.4 to 7.6 bar)				
Operating temperature:	32°F to 125°F (0°C to 52°C)				
Flow capacity [†] : High flow 1/8" 1/4"	13 scfm (6.1 dm³/s, ANR) 15 scfm (7.1 dm³/s, ANR)				
Gauge ports (2):	1/8 inch				
Weight:	0.3 lb (0.14 kg)				
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.					

Ordering Information:

P3A-RN 9	1 Y		N			
Port Type NPT Female 9					Blank	/ Pressure Limited None
Port Size					XXX*	Preset Pressure
1/8 inch	1				XXX*	Pressure Limited
1/4 inch	2					set / pressure limited 90 psig in 5 psig
Pattar					increments.	For higher pressures,
Relief	n Diagle Knoch – D				contact facto (Example: 065	
Non-Relieving					(Example: 005	– 03 psig)
Relieving, Bla	q, Yellow Knob Q			0	ntion	
Relieving, Yel					ption	
Relieving, fei				N	None	
	Pressure / Gauge				Opti	ions
	Without Gauge		N		No Opt	
	15 psig (0 to 1 bar)	A	L†	F	Preset Non-Adjust	
	30 psig (0 to 2 bar)	Y	P†		Preset Adjust	
	60 psig (0 to 4 bar)	L	S†	Pressure Li	miter Max. Adjust	
	120 psig (0 to 8 bar)	N	T†	Pressure Limiter	r Max. Non-Adjust	able
	With Gauge		Inlet pre	essure is 100 psig	. For other pressur	es
	15 psig (0 to 1 bar)	В		factory.		
	30 psig (0 to 2 bar)	Z				
	60 psig (0 to 4 bar)	М				
	120 psig (0 to 8 bar)	G				

Most popular.



Catalog 0700P-8 Miniature Regulators

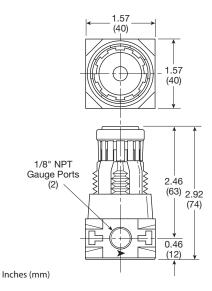
Material Specifications

•	
Adjusting nut	Brass
Adjusting stem & spring	Steel
Poppet return spring	Stainless Steel
Body	Plastic
Bonnet, seat & piston	Plastic
Seals	Nitrile
Valve poppet	Plastic & nitrile

Repair and Service Kits

•	
30 psig gauge, 1/8" NPT (0 to 2.1 bar)	K4515N18030
60 psig gauge, 1/8" NPT (0 to 4.1 bar)	K4515N18060
160 psig gauge, 1/8" NPT (0 to 11.0 bar)	K4515N18160
Mounting bracket kit* (includes panel mount nut)	PS417BP
Panel mount nut*	P78652
Unbalanced non-relieving, poppet / piston kit	PS428P
Unbalanced relieving, poppet / piston kit	PS426P
1-15 psig Spring (yellow)	P01176
1-30 psig spring (black)	P01175
1-60 psig spring (white)	P01174
5-110 psig spring (gold)	P01173

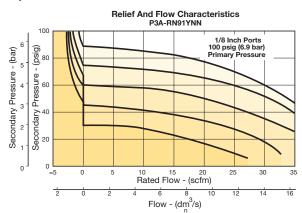
* Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.



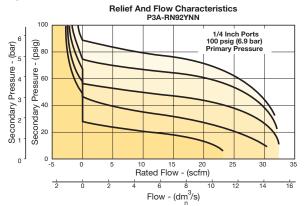
Air Preparation Products **P3A-R Series**

Flow Charts

1/8" port



1/4" port



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. General

Dial

Pilot



C

Genera

Dial

Pilot

Proportional

Precision

Water

Regulator Products Port

Size

1/8"

1/8"

1/8"

1/4"

1/4"

1/4"

Manifold

Manifold

Manifold

R34 Regulators – Miniature

- Diaphragm operated for fast response
- 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", 1/4" ports (NPT, BSPP)



Part Number

R344-01A

R344-01B

R344-01C

R344-02A

R344-02B

R344-02C

R342-0MA

R342-0MB

R342-0MC

Without Gauge With Gauge

R344-01AG

R344-01BG

R344-01CG

R344-02AG

R344-02BG

R344-02CG

_

_

_



Relieving

Relieving, 0 to 30 psig

Relieving, 0 to 60 psig

Relieving, 0 to 125 psig

Relieving, 0 to 30 psig

Relieving, 0 to 60 psig

Relieving, 0 to 125 psig

Relieving, 0 to 30 psig

Relieving, 0 to 60 psig

Relieving, 0 to 125 psig

Description



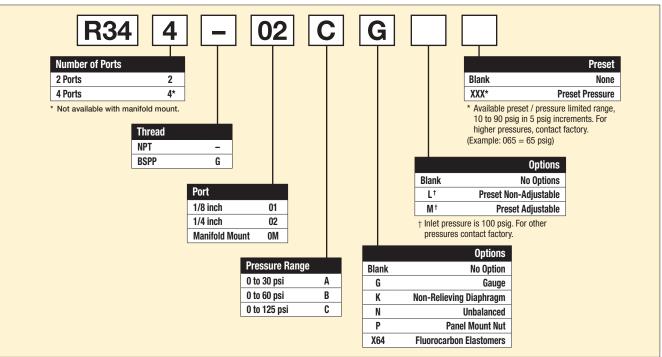
R344-02C



R342-0MC

Operating information				
Supply pressure (max):	300 psig (0 to 20.7 bar)			
Operating temperature:	-40°F to 150°F (-40°C to 65.5°C)			
Flow capacity [†] : High flow 1/8" 1/4"	17 scfm (8.0 dm³/s, ANR) 19 scfm (8.9 dm³/s, ANR)			
Gauge ports (2):	1/8 inch (no gauge port version available)			
Weight:	0.25 lb (0.11 kg)			
⁺ scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.				

Ordering Information:



Most popular.



C

Catalog 0700P-8 **Miniature Regulators**

(Revised 04-26-18)

Air Preparation Products R34 Series

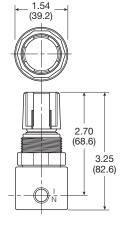
Material Specifications

Body	Aluminum
Bonnet	Acetal
Diaphragm & seals	Nitrile
Valve assembly	Brass
Springs	Steel
Panel Nut	Acetal

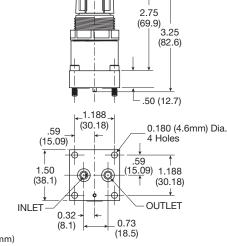
Repair and Service Kits

•	
Diaphragm assembly, non-relieving	GRP-96-726
Diaphragm assembly, relieving	GRP-96-725
0 to 30 psig (0 to 2.1 bar), spring, regulating	GRP-95-111
0 to 60 psig (0 to 4.1 bar) spring, regulating	GRP-96-718
0 to 125 psig (0 to 8.6 bar) spring, regulating	GRP-96-717
Panel mount nut, aluminum	R05X51-A
Panel mount nut, plastic	R05X51-P
Mounting bracket kit (includes panel mount nut)	SA161X57
1-1/2" Dial Face, 1/8 NPT, CBM,	
0 to 60 psig (0 to 4.1 bar), gauge	K4515N18060
1-1/2" Dial Face, 1/8 NPT, CBM,	
0 to 160 psig (0 to 11.0 bar), gauge	K4515N18160
Tamperproof knob kit	P31KB00AT

R342 / R344



R342-0MC



Inches (mm)

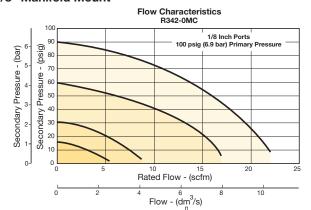


K7

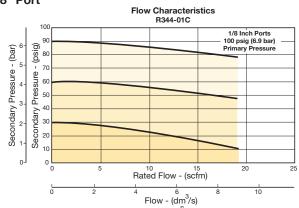
Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics

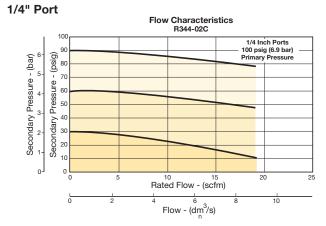
Flow Charts

1/8" Manifold Mount



1/8" Port





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 precure up to the design entities. the pressure up to the desired setting.

Proportional

General

Dial

Pilot

Water

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products

Port

Size

1/8"

1/4"

Lightweight plastic body • Unbalanced poppet standard • Non-rising, push-to-lock adjusting knob • Compact, 3.10 Inch (79 mm) high by 1.60 Inch (41 mm) wide Lightweight • Diaphragm operated • 1/8", 1/4" ports (NPT)

R25 Regulators – Miniature



125°F (4°C to 52°C)

Operating information

Supply pressure (max):	Inlet 150 psig (10.0 bar)
Operating temperature:	40°F to 125°F (4°C to 52
Gauge ports (2):	1/8 inch (can be used for full flow)
Weight:	0.25 lb (0.11 kg)

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

Relieving, 0-125 Reduced Pressure,

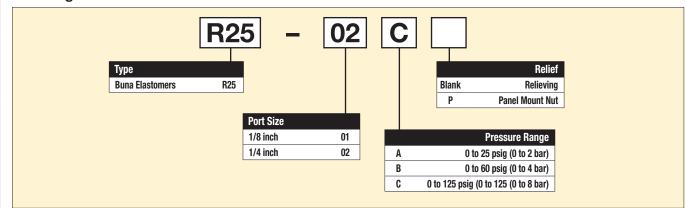
Relieving, 0-125 Reduced Pressure,

Ordering Information:

Description

without Gauge

without Gauge



Part Number

R25-01C

R25-02C





Catalog 0700P-8 Miniature Regulators

Material Specifications

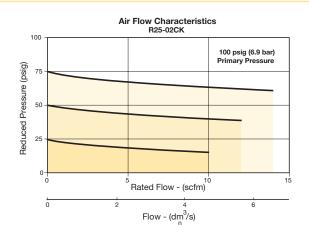
•	
Adjusting screw	Steel
Body	Acetal
Bonnet and seat	Acetal
Diaphragm	Buna N
Seals	Buna N
Springs	Stainless steel
Valve poppet	Buna N

Repair and Service Kits

-	
Panel mount nut, plastic	R05X51-P
Panel mount nut, aluminum	R05X51-A
Mounting bracket and nut	SA161X57
Relieving (Buna)	RKR25Y
Non-Relieving (Buna)	RKR25KY
0-25 psig spring	SPR-375-1
0-60 psig spring	SPR-376
0-125 psig spring	SPR-377

Air Preparation Products **Regulator Products**

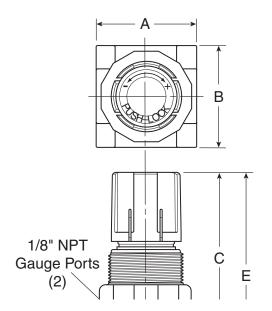
Flow Charts



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.



General

Dial

Pilot

Proportional

Precision

Water



C

General

Dial

Pilot

Proportional

Precision

3/8"

Lightweight plastic body • Unbalanced poppet standard • Non-rising, push-to-lock adjusting knob • Compact, 3.43 inch (87.1 mm) high by 2.06 inch (52.3 mm) wide Lightweight Diaphragm operated • 1/4", 3/8" ports (NPT, BSPP) Port Description Part Number Size Relieving, 0-125 Reduced Pressure, 1/4" R45-02C without Gauge

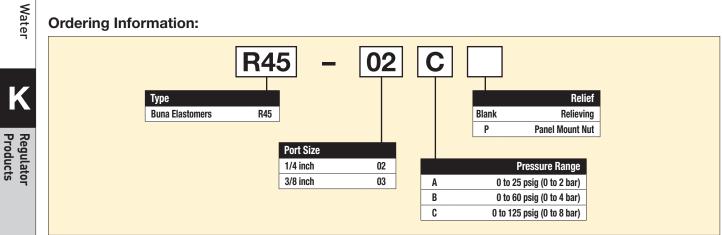
R45 Regulators – Miniature

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

Relieving, 0-125 Reduced Pressure,

Ordering Information:

without Gauge



R45-03C











Operating information

Supply pressure (max):	Inlet 150 psig (10.0 bar)
Operating temperature:	40°F to 125°F (4°C to 52°C)
Gauge ports (2):	1/4 inch (can be used for full flow)
Weight:	0.38 lb (0.17 kg)

Catalog 0700P-8 Miniature Regulators

Material Specifications

•	
Adjusting screw	Steel
Body	Acetal
Bonnet and seat	Acetal
Diaphragm	Buna N
Seals	Buna N
Springs	Stainless steel
Valve Poppet	Buna N

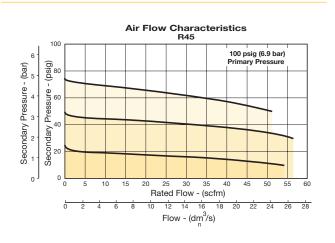
Repair and Service Kits

-	
Panel mount nut, plastic	R05X51
Panel mount nut, aluminum	R05X51-A
Mounting bracket and nut	SA161X57
Relieving	RKR45Y
Non-Relieving	RKR45KY
0-25 psig spring	SPR-46
0-60 psig spring	SPR-47
0-125 psig spring	SPR-48

1/4" NPT Gauge Ports (2)

Air Preparation Products **Regulator Products**

Flow Charts



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. General

Dial

Pilot

Proportional

Precision

Regulator Products





15R Regulators – Economy

- Solid control piston with resilient seat for service-free operation
- Non-rising "locking" adjusting knob
- Compact, 3.30 inch (84 mm) high by 2.12 inch (54 mm) wide
- Easily serviced

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products • 1/4", 3/8" ports (NPT)



	Port	Description	Davit Numehau
-	Size	Description	Part Number
'	1/4"	Without Gauge	15R113FB
	1/4"	With Gauge	15R118FB
	3/8"	Without Gauge	15R213FB
	3/8"	With Gauge	15R218FB
. 1			

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

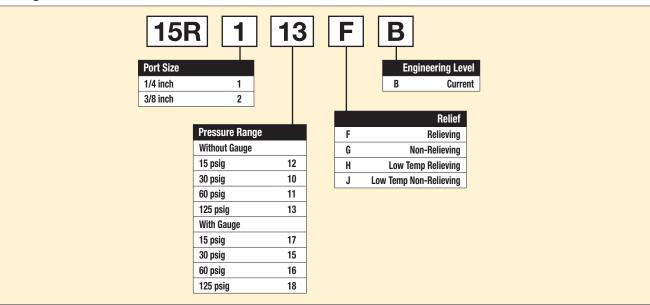


Operating information

Supply pressure (max):		0 to 250 psig (0 to 17.2 bar)
Secondary pressure ranges		
Standard	J	2 to 125 psig (0 to 8.6 bar)
Medium		1 to 60 psig (0 to 4.1 bar)
Medium		1 to 30 psig (0 to 1.7 bar)
Low		1 to 15 psig (0 to 1 bar)
LOW		1 to 15 psig (0 to 1 bai)
Operating temperat	ure:	32°F to 125°F (0°C to 52°C)
Low temperature	;	-4°F to 125°F (-20°C to 52°C)
Flow capacity [†] :	-1 / 4 11	
High flow	1/4"	21 scfm (9.9 dm ³ /s, ANR)
	3/8"	28 scfm (13.2 dm³/s, ANR)
Gauge ports (2):		1/4 inch
01 ()		(can be used at full flow)
M/sislet.		
Weight:		0.5 lb (0.23 kg)
$^{ \dagger}$ scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary		

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

Ordering Information:



Most popular.



C

K12

Catalog 0700P-8 Economy Regulators

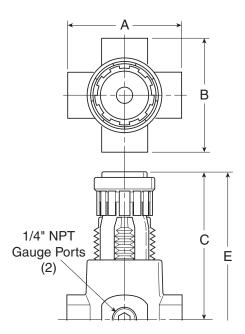
Material Specifications

-	
Adjusting nut	Brass
Adjusting stem & spring	Steel
Body	Zinc
Bonnet, seat, piston & valve poppet	Plastic
Seals	Nitrile

Repair and Service Kits

Body Service Kit – Unbalanced	PS424BP
Bonnet Assembly Kit	L01369
30 psig, 1/8" NPT (0 to 2.1 bar) gauge	K4515N18030
60 psig, 1/8" NPT (0 to 4.1 bar) gauge	K4515N18060
160 psig, 1/8" NPT (0 to 11.0 bar) gauge	K4515N18160
60 psig, 1/4" NPT (0 to 4.1 bar) gauge	K4520N14060
160 psig, 1/4" NPT (0 to 11.0 bar) gauge	K4520N14160
Mounting bracket kit* (Includes panel mount nut)	PS417BP
Panel mount nuts*, plastic	P78652
Panel mount nuts*, metal	P01531
Poppet / piston kit, unbalanced, non-relieving	PS428P
Poppet / piston kit, unbalanced, relieving	PS426P
Seal, unbalanced	PS454B
1-15 psig spring (yellow)	P01176
1-30 psig spring (black)	P01175
1-60 psig spring (white)	P01174
2-125 psig spring (gold)	P01173

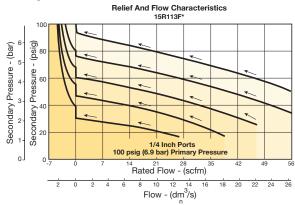
* Tighten panel mount nut 2.8 to 3.4 Nm (25 to 30 in-lbs) of torque.



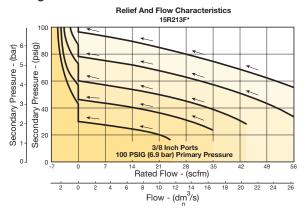
Air Preparation Products **Regulator Products**

Flow Charts

1/4" Regulator



3/8" Regulator



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. General



27R Regulators – Semi-Precision

- Fine adjustment sensitivity
- Good repeatability and minimal pressure drop
- High flow capacity
- Two 1/4" gauge ports
- Brass Poppet for long life
- Modular with 05 Series FRL
- Non-rising, removable knob
- Multiple porting options
- 1/4", 3/8" ports (NPT, BSPP, BSPT)





Operating information

Bleed rate:	0.033 scfm (0.016 dm³/s, ANR)
Effect of supply variation:	0.5 psig (0.04 bar) for 25 psig (1.7 bar) change P¹
Relief capacity:	0.5 scfm (0.24 dm³/s, ANR) @ 5 psig (0.4 bar) increase P²
Flow capacity ⁺ :	28 scfm (13.2 dm³/s, ANR) @ 100 psig (6.9 bar) P¹ and 20 psig (1.4 bar) P²
Inlet pressure (max):	250 psig (17.2 bar)
Temperature rating:	32°F to 175°F (0°C to 80°C)
Relief flow:	5.0 scfm (2.4 dm ³ /s, ANR)
Repeatability:	± .5 psig (±0.034 bar)
Response:	510 ms The valve will open to full flow and fill a volume of 100 $\ensuremath{\text{in}}^3$
Gauge ports (2):	1/4 inch
Weight:	1.0 lb (0.45 kg)
* scfm = Standard cubic feet per minute at 150 psig inlet, 90 psig no flow secondary setting and 5 psig pressure drop.	

Ordering Information:

Port Size	Description	Part Number
1/4"	1-15 psi w/out Gauge, Relieving	27R112AD
1/4"	0-60 psi w/out Gauge, Relieving	27R114AD
1/4"	2-125 psi w/out Gauge, Relieving	27R113AD

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

Most popular.





General

Dial

Pilot

Regulator Products

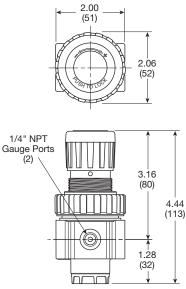
Catalog 0700P-8 **Semi-Precision Regulators**

Material Specifications

-	
Poppet	Brass
Bonnet	Plastic
Body	Zinc
Collar, knob	Plastic
Diaphragm	Nitrile
Bottom Cap	Plastic
Seals	Nitrile
Springs – poppet & control	Steel

Repair and Service Kits

Bonnet assembly kit	PS910P
Control knob	P0442001
1-1/2" dial face 30 psig (0 to 2.1 bar), gauge	K4515N14030
1-1/2" dial face 60 psig (0 to 4.1 bar), gauge	K4515N14060
1-1/2" dial face 160 psig (0 to 11.0 bar), gauge	K4515N14160
1-1/2" dial face 300 psig (0 to 20.7 bar), gauge	K4515N14300
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
Mounting bracket kit	PS963P
Panel mount nut, metal	PS964P
Service kit	PS907P
1-30 psig spring	P04427
1-15 psig spring	P04428
0-60 psig spring	P04426
2-125 psig spring	P04425



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

4.44

Air Preparation Products Regulator Products

Flow Charts

1/4" Regulator 30 psig spring Flow Characteristics 27R110A* 1/4 Inch Ports 100 psig (6.9 bar) Primary Pressure 2.0 (bisd) Secondary Pressure - (bar) / Pressure -20 15 1.0 Secondary 10 .5 5 0. 0 Rated Flow - (scfm) Flow - (dm³/s)

General

Dial

Pilot

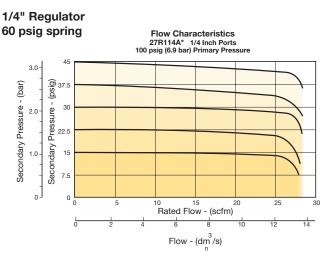
Proportional

Precision

Water

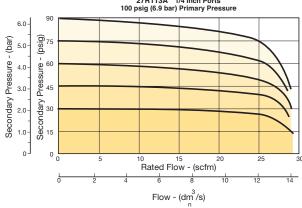
Κ

Regulator Products



1/4" Regulator 125 psig spring

Flow Characteristics 27R113A* 1/4 Inch Ports 100 psig (6.9 bar) Primary Pressure



CAUTION:

K15

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.





For inventory, lead times, and kit lookup, visit www.pdnplu.com

Operating information

1/4

Flow capacity*:

Operating temperature[†]:



Water

Regulator Products

General

Dial

P31 Regulators – Mini

- Integral 1/4" ports (NPT, BSPP & BSPT)
- · Robust but lightweight aluminum construction
- Secondary pressure ranges
- · Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.

Gauge

Square

None

- Relieving & non-relieving types
- Non-rising knob



68 scfm (32 dm³/s, ANR)

-4°F to 150°F (-20°C to 65.5°C)

.3 bar).

elieving regulato

Description

125 psig (8 bar)

125 psig (8 bar)

(Relieving)



Self relieving regulator	Ν
with gauge	

Non-relieving regulator

Part Number

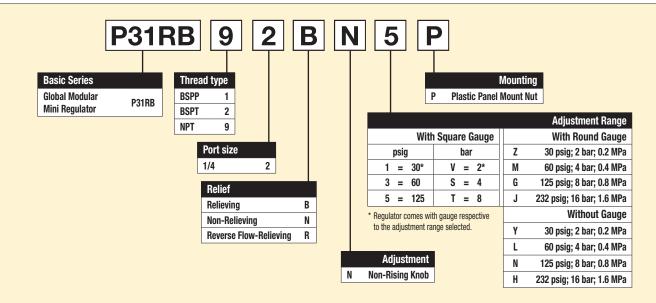
P31RB92BNNP

P31RB92BN5P

Supply pressure (max):	300 psig (20 bar)
Adjusting range pressure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 232 psig (0-16 bar)
Gauge port (2 each)**	1/8 BSPP, BSPT, NPT
Weight:	0.37 lb (0.17 kg)
** Non-gauge option only.	Secondary pressure 91.3 psig (6.

† Units with square gauges: 5°F to 150°F (-15°C to 65.5°C)

Ordering Information:



Most popular.



C

Catalog 0700P-8 Mini Regulators

Material Specifications

-	
Body	Aluminum
Adjustment knob	Acetal
Bonnet	PBT
Diaphragm assembly	Brass / Nitrile
Valve assembly	Brass / Nitrile
Springs	Steel
Seals	Nitrile
Panel nut	Acetal

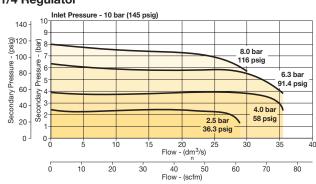
Repair and Service Kits

Diaphagm repair kit - relieving	P31KB00RB
Diaphagm repair kit - non-relieving	P31KB00RC
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
C-bracket (fits to body)	P31KA00MW
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB



Flow Charts

1/4 Regulator



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.

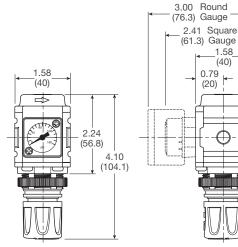
Gauges

1.20 (30.6)

+

Square flush	0-4 bar	K4511SCR04B
mount gauge	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160
Square with	0-4 bar	P6G-PR10040
adapter kit	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
1.00" Round 1/8"	0-60 psig / 0-4 bar	K4510N18060
center back mount	0-160 psig / 0-11 bar	K4510N18160
40mm Round 1/8"	0-30 psig / 0-2 bar	K4515N18030
center back mount (Not for use with common	0-60 psig / 0-4 bar	K4515N18060
port regulators)	0-160 psig / 0-11 bar	K4515N18160
- · · · ·		

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



Inches (mm)

NOTE: 1.20 in. (30mm) hole required for panel nut mounting.



C

Water

General

Dial

Pilot

Proportional

Precision

P31 Common P1 Regulators – Mini

- Manifold style regulator with line pressure on both sides
- Pressure output is at front or rear
- Inlet port 1/4" (NPT, BSPP & BSPT)
- Working port 1/8"

General

Dial

Pilot

Proportional

- Robust construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Non-rising knob





Self relieving regulator with gauge

Non-relieving regulator

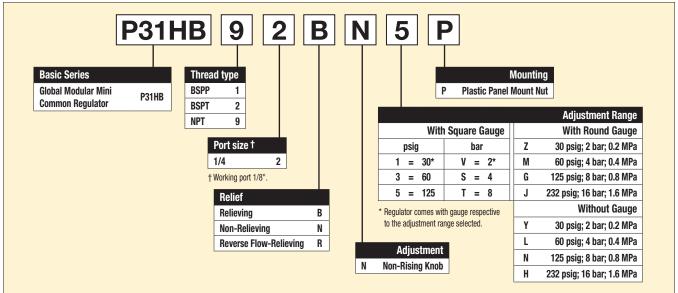


Operating information

Flow capacity*: 1/4	42 scfm (20 dm³/s, ANR)		
Operating temperature:	-4°F to 150°F (-20°C to 65.5°C)		
Supply pressure (max):	300 psig (20 bar)		
Adjusting range pressure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 232 psig (0-16 bar)		
P1 port size (inlet/outlet)	1/4 NPT, BSPP, BSPT		
P2 regulated ports (2 ea.)	1/8 NPT, BSPP, BSPT		
Weight:	0.66 lb (0.30 kg)		
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar).			

Size	(Relieving)	Gauge	Part Number
1/4"	125 psig (8 bar)	None	P31HB92BNNP
1/4"	125 psig (8 bar)	Square	P31HB92BN5P

Ordering Information:



Most popular.



C

Precision

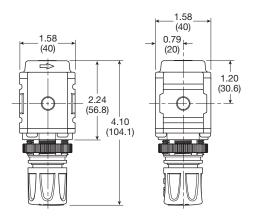
Catalog 0700P-8 Mini Common P1 Regulators

Materials of Construction

Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled PBT
Diaphragm assembly	Brass / Nitrile
Valve assembly	Brass / Nitrile

Repair and Service Kits

Diaphagm repair kit - relieving	P31KB00RB
Diaphagm repair kit - non-relieving	P31KB00RC
Panel mount nut - aluminum	P31KA00MM
Panel mount nut - plastic	P31KA00MP
Angle bracket (attaches via panel nut)	P31KB00MR
T-bracket with body connector	P31KA00MT
Body connector	P31KA00CB



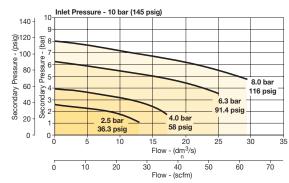
Inches (mm)

NOTE: 1.20 in. (30mm) hole required for panel nut mounting.

Air Preparation Products **Regulator Products**

Flow Charts

1/4 Common Regulator



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.

Gauges

Square with adapter kit	0-4 bar	P6G-PR10040
	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
1.00" round 1/8"	0-60 psig / 0-4 bar	K4510N18060
center back mount	0-160 psig / 0-11 bar	K4510N18160

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

General

Dial

Pilot





C

05R Regulators – Economy

- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation.
- Rolling diaphragm for extended life.
- Removable non-rising knob for panel mounting and tamper resistance.
- Easily serviced.

General

Dial

Pilot

Proportional

Precision

Water

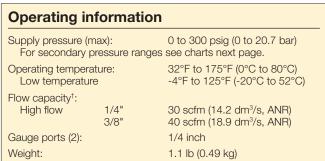
Regulator Products

- Reverse Flow.
- 1/4", 3/8" ports (NPT, BSPP)



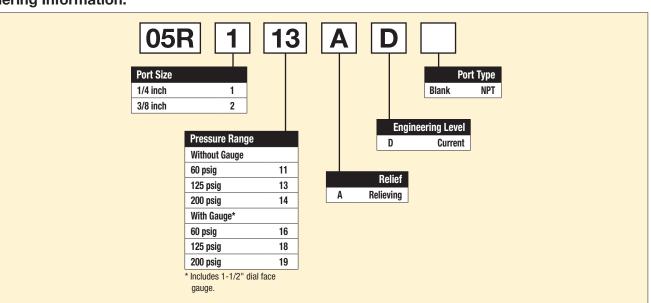
Port Size	Description	Part Number
1/4"	Without Gauge	05R113A*
1/4"	With 160 Psi Gauge	05R118A*
3/8"	Without Gauge	05R213A*
3/8"	With 160 Psi Gauge	05R218A*

NOTE: 1.53 Dia. (39 mm) 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:



Most popular.



C

K20

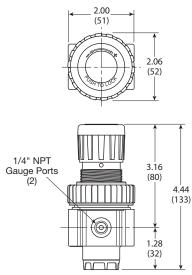
Catalog 0700P-8 Economy Regulators

Material Specifications

-	
Adjusting stem	Brass
Bonnet	Plastic
Body	Zinc
Collar, Knob	Plastic
Diaphragm	Nitrile
Poppet & cap	Plastic
Seals	Nitrile
Springs – poppet & control	Steel

Repair and Service Kits

Bonnet assembly kit PS915P	
Control knob	P04420
1-1/2" dial face 30 psig (0 to 2.1 bar), gauge	K4515N14030
1-1/2" dial face 60 psig (0 to 4.1 bar), gauge	K4515N14060
1-1/2" dial face 160 psig (0 to 11.0 bar), gauge	K4515N14160
1-1/2" dial face 300 psig (0 to 20.7 bar), gauge	K4515N14300
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
Mounting bracket kit	PS963P
Panel mount nut – metal	PS964P
1-30 psig spring	P04427
1-60 psig spring	P04426
2-125 psig spring	P04425
2-200 psig spring	P02934
Relieving service kit	PS908P

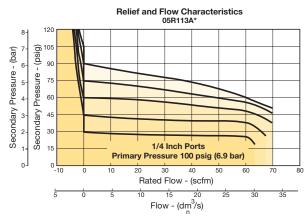


Inches (mm)

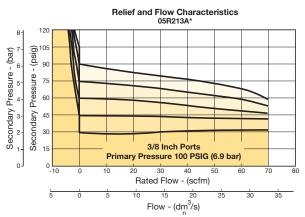
Air Preparation Products **Regulator Products**

Flow Charts

1/4" Regulator



3/8" Regulator



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.



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

General

Air Preparation Products **Regulator Products**

06R Regulators – Compact

- 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

Genera

Dial

Pilot

Proportional

Precision

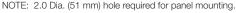
Water

Regulator Products

- Removable non-rising knob for panel mounting and tamper resistance
- 1/4", 3/8", 1/2" ports (NPT, BSPP)



Port Size	Description	Part Number
1/4"	Without Gauge	06R113AC
1/4"	With 160 Psi Gauge	06R118AC
3/8"	Without Gauge	06R213AC
3/8"	With 160 Psi Gauge	06R218AC
1/2"	Without Gauge	06R313AC
1/2"	With 160 Psi Gauge	06R318AC
NOTE: 2	2 0 Dia (51 mm) hole required for panel mounting	

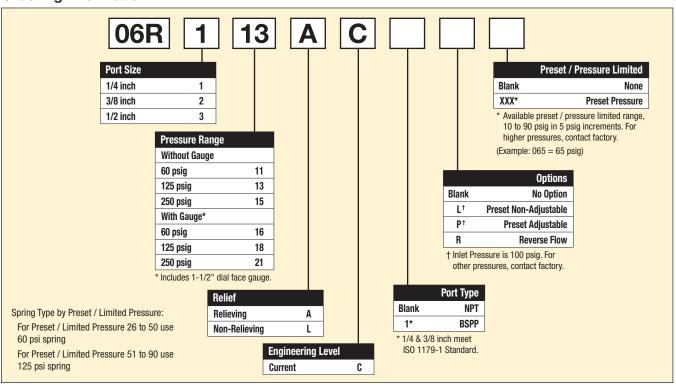




Operating information

Supply pressure (m	nax):	250 psig (17.2 bar)
Secondary pressur Standard Low High	e ranges:	2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 5 to 250 psig (0.4 to 17.2 bar)
Operating temperature: Low temperature		32°F to 175°F (0°C to 80°C) -4°F to 125°F (-20°C to 52°C)
Flow capacity [†] : High flow	1/4" 3/8" 1/2"	53 scfm (25 dm³/s, ANR) 60 scfm (28.3 dm³/s, ANR) 75 scfm (35.4 dm³/s, ANR)
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4 inch outlet ports)
Weight:		1.6 lb (0.7 kg)
* scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.		

Ordering Information:



Most popular.



C

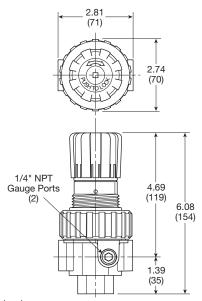
(Revised 02-01-17)

Material Specifications

•	
Adjusting stem	Steel
Body	Zinc
Bonnet, piston stem, valve poppet & cap	Plastic
Collar, knob	Plastic
Diaphragm	Nitrile
Seals	Nitrile
Spring, poppet	Stainless
Spring, control	Steel

Repair and Service Kits

•	
Bonnet assembly kit	PS715P
Control knob	P04069B
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar) gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS707P
Panel mount nut, plastic	P04082
Panel mount nut, metal	P04079B
Reverse flow service conversion kit, relieving	PS708RP
Relieving (includes poppet)	PS708P
Non-relieving (includes poppet)	PS709P
1-30 psig spring	P01698
1-60 psig spring	P04062
2-125 psig spring	P04063
5-250 psig spring	P04064
Tamperproof kit	PS737P

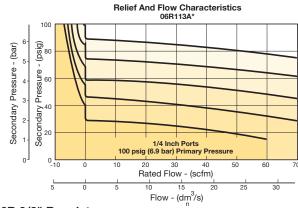


Inches (mm)

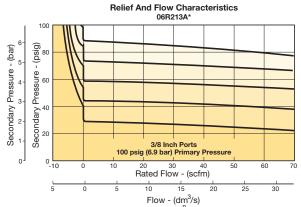
Air Preparation Products Regulator Products

Flow Charts

06R 1/4" Regulator

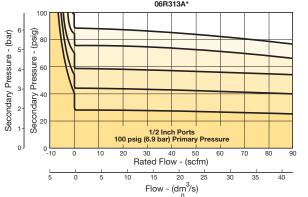


06R 3/8" Regulator



06R 1/2" Regulator

Relief And Flow Characteristics 06R313A*



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.



C

K21b

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

K

General

Dial

Pilot

Proportional

Precision

Water

Operating information

P32 Regulators – Compact

- Integral 1/4", 3/8" or 1/2" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Non-rising knob
- Available T-handle





Self relieving regulator with gauge

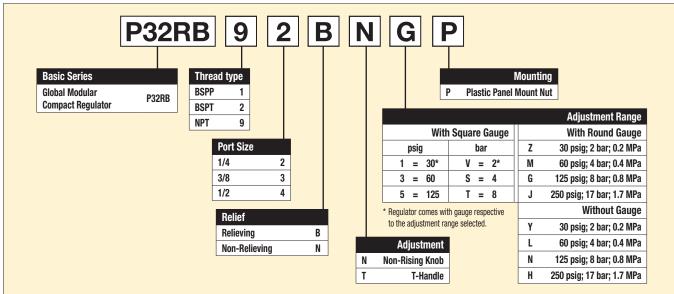
Non-relieving regulator

Port Size	Description (Relieving)	Gauge	Part Number
1/4"	125 psig (8 bar)	None	P32RB92BNNP
1/4"	125 psig (8 bar)	Round	P32RB92BNGP
3/8"	125 psig (8 bar)	None	P32RB93BNNP
3/8"	125 psig (8 bar)	Round	P32RB93BNGP
1/2"	125 psig (8 bar)	None	P32RB94BNNP
1/2"	125 psig (8 bar)	Round	P32RB94BNGP



Flow capacity*: 1/4 3/8, 1/2	148 scfm (70 dm³/s, ANR) 165 scfm (78 dm³/s, ANR)	
Operating temperature:	-13°F to 150°F (-25°C to 65.5°C)	
Supply pressure (max):	300 psig (20 bar)	
Adjusting range pressure:	30 psig (0-2 bar) 60 psig (0-4 bar) 125 psig (0-8 bar) 250 psig (0-17 bar)	
Gauge port (2 each)	1/4 NPT, BSPP, BSPT	
Weight:	0.90 lb (0.41 kg)	
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar).		

Ordering Information:



Most popular.



C

Water

Regulator Products

General

Dial

Pilot

Material Specifications

-	
Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled nylon
Diaphragm assembly	Nitrile / Zinc
Valve assembly	Brass / Nitrile
Springs	Steel, stainless steel
Seals	Nitrile
Panel nut	Acetal

Repair and Service Kits

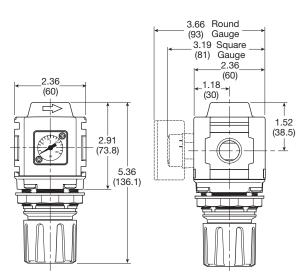
Diaphagm repair kit - relieving	P32KB00RB
Diaphagm repair kit - non-relieving	P32KB00RC
Panel mount nut - aluminum	P32KA00MM
Panel mount nut - plastic	P32KA00MP
Angle bracket (attaches via panel nut)	P32KB00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

\land 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.



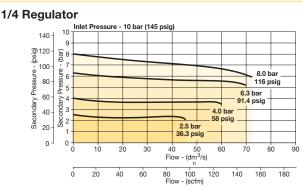
Inches (mm)

NOTE: 1.90 in. (48mm) hole required for panel nut mounting.

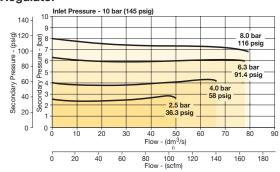


Air Preparation Products **Regulator Products**

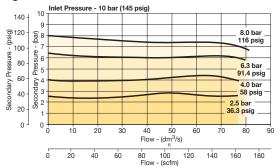
Flow Charts



3/8 Regulator



1/2 Regulator



Gauges

K23

-		
Square flush mount gauge	0-4 bar	K4511SCR04B
	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160
Square with adapter kit	0-4 bar	P6G-PR10040
	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
50mm (2") round	0-30 psig / 0-2 bar	K4520N14030
1/4" center back mount	0-60 psig / 0-4 bar	K4520N14060
	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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

General

Dial

P32 Common - P1 Regulator – Compact

- Manifold style regulator with line pressure on both sides.
- Pressure output is at front or rear.
- Inlet ports 1/4", 3/8" or 1/2" (NPT, BSPP & BSPT)
- Working port 1/4"

General

Dial

Pilot

Proportional

Precision

- Robust construction
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & non-relieving types
- Non-rising knob

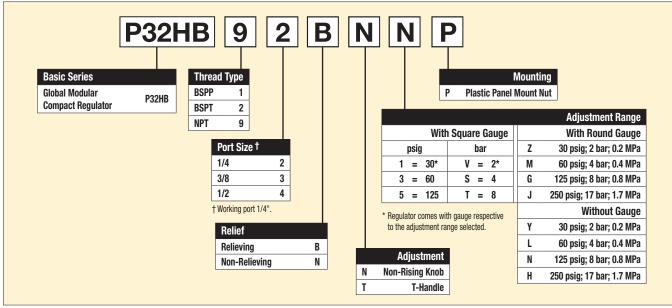


Self relieving regulator with gauge

Non-relieving regulator

Port Size	Description (Relieving)	Gauge	Part Number
1/4"	125 psig (8 bar)	None	P32HB92BNNP
3/8"	125 psig (8 bar)	None	P32HB93BNNP
1/2"	125 psig (8 bar)	None	P32HB94BNNP

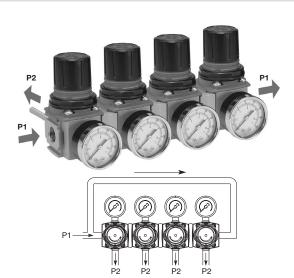
Ordering Information:



Most popular.







Operating information

Flow capacity*: 1/4, 3/8, 1/2	30 dm³/s (64 scfm)	
Operating temperature:	-25°C to 65.5°C (-13°F to 150°F)	
Supply pressure (max):	300 psig (20 bar)	
Adjusting range pressure:	0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 232 psig (0 to 16 bar)	
Gauge port (2 each):	1/4 NPT, BSPP, BSPT	
Weight:	0.50 lb (1.10 kg)	
* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar).		

Regulator Products

Catalog 0700P-8 Compact Common P1 Precision Regulator

Material Specifications

	A1 .
Body	Aluminum
Adjustment knob	Acetal
Bonnet	Glass-filled nylon
Diaphragm assembly	Nitrile / zinc
Valve assembly	Brass / nitrile
Springs	Steel, stainless steel
Seals	Nitrile
Panel nut	Acetal

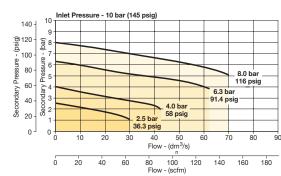
Repair and Service Kits

Diaphagm repair kit - relieving	P32KB00RB
Diaphagm repair kit - non-relieving	P32KB00RC
Panel mount nut - aluminum	P32KA00MM
Panel mount nut - plastic	P32KA00MP
Angle bracket (attaches via panel nut)	P32KB00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

Air Preparation Products **Regulator Products**

Flow Charts

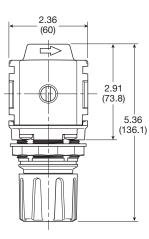
P32 Common Port Regulator

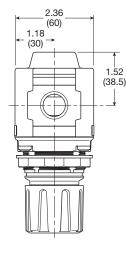


Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating.

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.





Inches (mm)

NOTE: 1.90 in. (48mm) hole required for panel nut mounting.

Gauges

-		
Square flush mount gauge	0-4 bar	K4511SCR04B
	0-11 bar	K4511SCR11B
	0-60 psig	K4511SCR060
	0-160 psig	K4511SCR160
Square with adapter kit	0-4 bar	P6G-PR10040
	0-11 bar	P6G-PR10110
	0-60 psig	P6G-PR90060
	0-160 psig	P6G-PR90160
50mm (2") round 1/4" center back mount	0-30 psig / 0-2 bar	K4520N14030
	0-60 psig / 0-4 bar	K4520N14060
	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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

General

Dial



C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

K25

07R Regulators – Standard

- 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

Genera

Dial

Pilot

Proportional

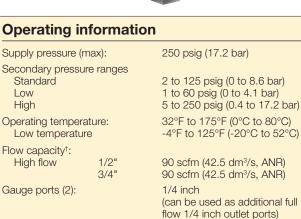
Precision

- Removable non-rising knob for panel mounting and tamper resistance
- 1/2", 3/4" ports (NPT, BSPP)



ort ize	Description	Part Number
/2"	Without Gauge	07R313AC
/2"	With 160 Psi Gauge	07R318AC
/4"	Without Gauge	07R413AC
/4"	With 160 Psi Gauge	07R418AC
/4"	With 160 Psi Gauge	 07R41

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

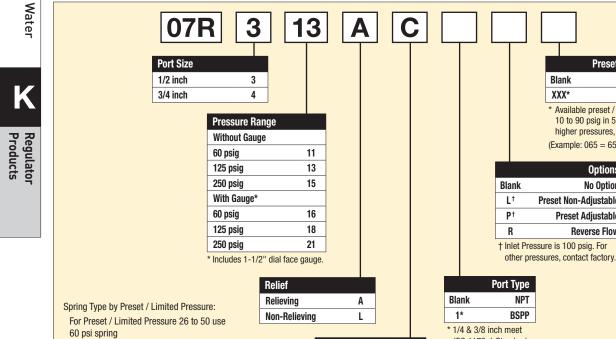


Weight:

2.5 lb (1.1 kg) ⁺ scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.

Blank

XXX*



125 psi spring

For Preset / Limited Pressure 51 to 90 use

Most popular.



K26

C

Engineering Level

Current

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

Preset / Pressure Limited

Available preset / pressure limited range,

10 to 90 psig in 5 psig increments. For higher pressures, contact factory.

(Example: 065 = 65 psig)

Preset Non-Adjustable

ISO 1179-1 Standard.

Preset Adjustable

Reverse Flow

Options

No Option

None

Preset Pressure

Ordering Information:

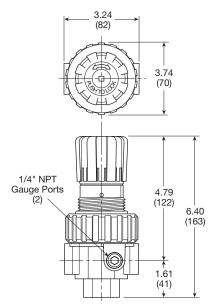
Catalog 0700P-8 Standard Regulators

Material Specifications

•	
Adjusting stem	Steel
Body	Zinc
Bonnet, piston stem, valve poppet & cap	Plastic
Collar, knob	Plastic
Diaphragm	Nitrile
Seals	Nitrile
Spring, poppet	Stainless
Spring, control	Steel

Repair and Service Kits

Bonnet assembly kit	PS715P
Control knob	P04069B
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS807P
Panel mount nut, plastic	P04082
Panel Mount nut, metal	P04079B
Reverse flow service conversion kit, relieving	PS808RP
Relieving (includes poppet)	PS808P
Non-relieving (includes poppet)	PS809P
1-30 psig spring	P01698
1-60 psig spring	P04062
2-125 psig spring	P04063
5-250 psig spring	P04064
Tamperproof kit	PS737P

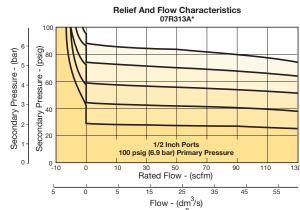


Inches (mm)

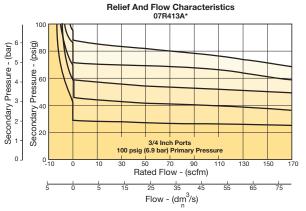
Air Preparation Products Regulator Products

Flow Charts

1/2" Regulator



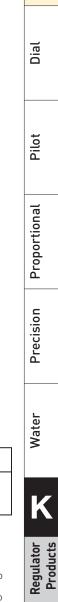
3/4" Regulator



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

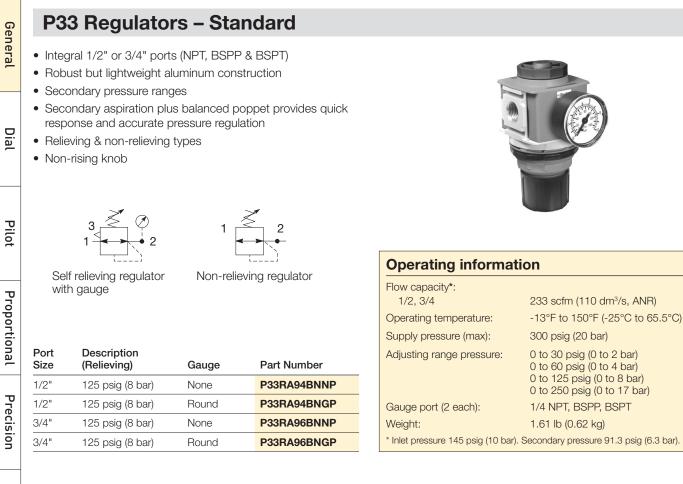
CAUTION:

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.



General

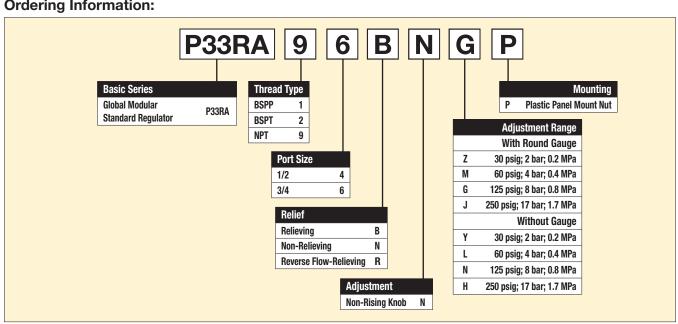




Ordering Information:

Water

Regulator Products



Most popular.



C

K28

Catalog 0700P-8 Standard Regulators

Material Specifications

•	
Body	Aluminum
Adjustment knob	Acetal
Body cap	ABS
Bonnet	Glass-filled nylon
Diaphragm assembly	Nitrile / zinc
Valve assembly	Brass / nitrile
Springs	Steel, stainless steel
Seals	Nitrile
Panel nut	Acetal

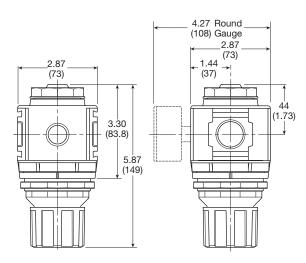
Repair and Service Kits

Diaphagm repair kit - relieving	P33KA00RB
Diaphagm repair kit - non-relieving	P33KA00RC
Panel mount nut - aluminum	P33KA00MM
Panel mount nut - plastic	P33KA00MP
Angle bracket (attaches via panel nut)	P33KA00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

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.



Inches (mm)

NOTE: 2.40 in. (61mm) hole required for panel nut mounting.



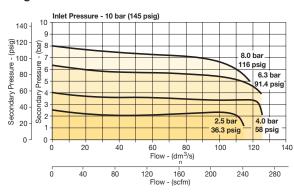
C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

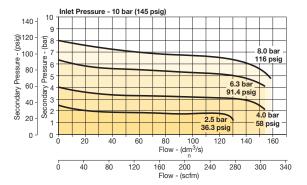
Air Preparation Products **Regulator Products**

Flow Charts

1/2 Regulator



3/4 Regulator



General

Dial

Pilot

Proportional

Gauges

50mm (2") round 1/4" center back mount	0-30 psig / 0-2 bar	K4520N14030
	0-60 psig / 0-4 bar	K4520N14060
	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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



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

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products Port

Size

3/4"

3/4"

1"

1"

P3Y Regulators

- Integral 3/4" or 1" ports (BSPP and NPT)
- Robust but lightweight aluminium construction
- Secondary pressure ranges 12 and 16 bar
- Rolling diaphragm for extended life
- Secondary aspiration plus rolling diaphragm provides quick response and accurate pressure regulation
- Optional tamperproof regulator padlock
- Reverse flow / relieving option
- Low temperature -40°C (-40°F)





Self relieving regulator with gauge

Description

174 psig relieving

174 psig relieving

174 psig relieving + pressure gauge

174 psig relieving + pressure gauge

Reverse flow relieving regulator

Non-relieving regulator

Part Number

P3YRA96BNEN

P3YRA96BNFN

P3YRA98BNEN

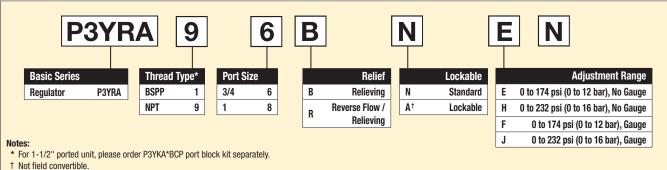
P3YRA98BNFN



Operating information

Supply pressure (max)*:		254 psig (17.5 bar)
Operating temperature:		-40°F to 140°F (-40°C to 60°C)
Flow capacity [†] :	3/4" 1"	380 scfm (179.3 dm³/s, ANR) 550 scfm (259.6 dm³/s, ANR)
Fluid:		Compressed air
Gauge port (x2)		1/4"
Weight:		2.4 lb (1.08 kg)
[†] Inlet pressure 145 psig (10 bar) inlet pressure, 91.4 psig (6.3 bar) set pressure and 7.3 psig (0.5 bar) pressure drop.		
* Air supply must be dry enough to avoid ice formation at temperatures below 35.6°F (2°C).		

Ordering Information



Most popular.



Material specifications

Body	Aluminium
Bonnet	Glass filled polyamide
Regulator cover	ABS
Control knob	Glass filled polyamide
Valve	Brass / NBR
Seals	Nitrile NBR
Screws	Steel / zinc plated

Repair and Service Kits

Angle bracket + metal lock ring	P3YKA00MS
Panel mounting nut	P3YKA00MM
Diaphragm kit (relieving type)	P3YKA00RR
Diaphragm kit (non-relieving type)	P3YKA00RN
0 to 160 psig (0 to 10 bar), gauge 1/4" port	K4520N14160
0 to 300 psig (0 to 20 bar), gauge 1/4" port	K4520N14300

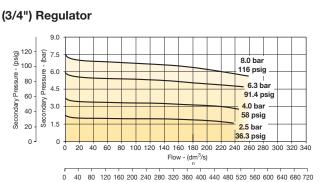
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating.

CAUTION:

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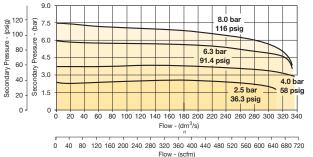
Air Preparation Products Regulator Products

Flow characteristics



Flow - (scfm)

(1") Regulator



3.54 (90) 2.17 M64x2 (55) 0.39 2.40 3.11 (10)(61) (79) ↓ 0.35 5.24 (133) (9) 2.36 0.32 (60) (5) 2.74 (69.5) 1.34 1.93 1.56 (34) (49) (39.5) 1/4" gauge port

Inches (mm)

7.17

(182)

1/4" gauge port



General

Dial

Jarke

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

P3NR Regulators – Hi-Flow

- 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
- 3/4", 1", 1-1/2" ports (NPT, BSPP)

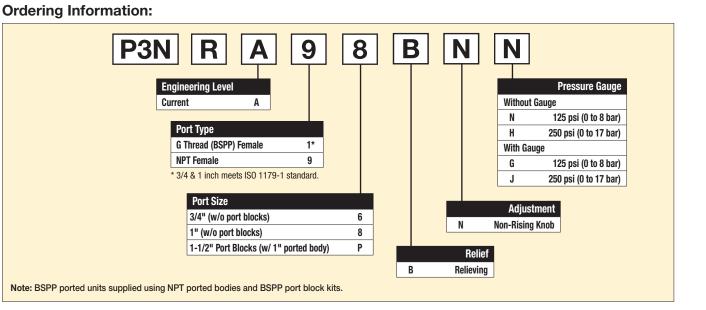


Port Size	Description	Part Number
3/4"	Without Gauge	P3NRA96BNN
3/4"	With 160 Psi Gauge	P3NRA96BNG
1"	Without Gauge	P3NRA98BNN
1"	With 160 Psi Gauge	P3NRA98BNG
1-1/2" #	Without Gauge	P3NRA9PBNN
1-1/2" #	With 160 Psi Gauge	P3NRA9PBNG
 # 1" port body with 1-1/2" port block. NOTE: 2.0 Dia. (51 mm) hole required for panel mounting. 		



Supply pressure (r	max):	250 psig (17.2 bar)
Operating tempera	ature:	32°F to 175°F (0°C to 80°C)
Flow capacity [†] : High flow	3/4" 1" 1-1/2"	200 scfm (94.4 dm³/s, ANR) 300 scfm (141.6 dm³/s, ANR) 300 scfm (141.6 dm³/s, ANR)
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4 inch outlet ports)
Weight:	3/4", 1" 1-1/2" #	4.2 lb (1.9 kg) 5.3 lb (2.4 kg)

1" port body with 1-1/2 port block



Most popular.



K32

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

Pilot Pro

General

Dial

Proportional

Precision

Water

Regulator Products

Catalog 0700P-8 Hi-Flow Regulators

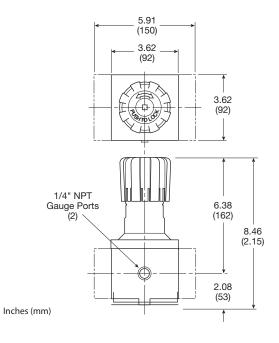
Material Specifications

•	
Adjusting stem	Steel
Body	Aluminum
Bonnet	Aluminum
Knob	Plastic
Piston	Plastic
Poppet assembly	Brass
Seals	Nitrile
Springs, poppet & control	Steel

Repair and Service Kits

-	
Control knob	P3NKA00PN
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face	
160 psig (0 70 11.0 bar), gauge	K4517N14160D
Mounting bracket kit*	P3NKA00MW
Relieving	P3NKA00RR
Non-relieving	P3NKA00RN
1-60 psig spring	C10A1304
2-125 psig spring	C10A1308
5-250 psig spring	C10A1317

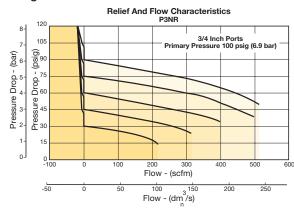
* If 1-1/2 BSPP E02 fittings are required, use P3NKA0BMW.



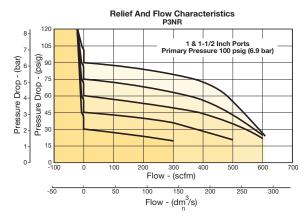
Air Preparation Products Regulator Products

Flow Charts

3/4" Regulator



1" & 1-1/2" Regulator



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

CAUTION:

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Water



Genera

Dial

Pilot

Proportional

Precision

Water

R119 Regulators – Standard

- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet design for quick and accurate regulation
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Heavy duty tee handle adjustment
- Reverse flow version available
- Panel mount version available
- 1/4", 3/8", 1/2" ports (NPT, BSPP)



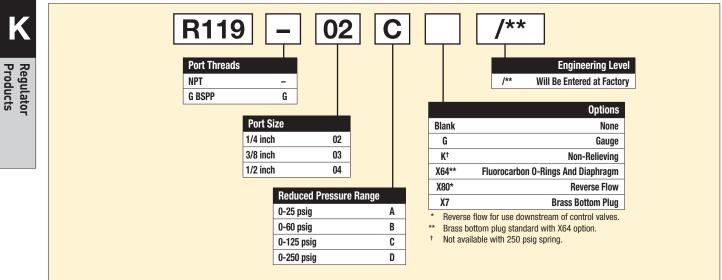
Port Size	Description (0-125 psig reduced pressure)	Part Number
1/4"	Without Gauge, Relieving, NPT	R119-02C
1/4"	With Gauge, Relieving, NPT	R119-02CG
3/8"	Without Gauge, Relieving, NPT	R119-03C
3/8"	With Gauge, Relieving, NPT	R119-03CG
1/2"	Without Gauge, Relieving, NPT	R119-04C
1/2"	With Gauge, Relieving, NPT	R119-04CG



Operating information

		300 psig (0 to 20.7 bar)
Reduced pressure ran	ge:	2 to 125 psig (0.15 to 8.5 bar)
Operating temperature	:	40°F to 125°F (4.4°C to 52°C)
Flow capacity [†] : High flow	1/4"	100 scfm (47.2 dm³/s, ANR)
r igr iow	3/8" 1/2"	110 scfm (51.9 dm³/s, ANR) 150 scfm (70.8 dm³/s, ANR)
Gauge ports (2):		1/4 inch
Weight:	1/4" 3/8" 1/2"	1.8 lb (0.82 kg) 1.8 lb (0.82 kg) 3.2 lb (1.45 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.		

Ordering Information:



Most popular.



C

Catalog 0700P-8 **Standard Regulators**

Material Specifications

Adjusting screw, springs	Steel
Body, spring cage	Zinc
Bottom plug	Nylon
Innervalve	Brass
Seals	Buna N

Repair and Service Kits

2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket, 1/4", 3/8"	SA15Y57
Mounting bracket, 1/2"	18A57
Panel mount conversion kit, 1/4", 3/8"	4202
Panel mount conversion kit, 1/2"	4204
Non-relieving diaphragm, valve assembly (1/4", 3/8"; all psig)	RK118Y
Relieving diaphragm, valve assembly (1/4", 3/8"; all psig)	RK119Y
Non-Relieving diaphragm, valve assembly (1/2"; 25, 60, 125 psig)	RK118A
Relieving diaphragm, valve assembly (1/2"; 25, 60, 125 psig)	RK119A
Relieving diaphragm, valve assembly (1/2"; 250 psig)	RK119A250
Spring cage & T-handle kit (1/4 & 3/8)	RKC119Y
Spring cage & insert only kit (1/2)	SAC18A3/BK
For fluorocarbon repair kits, add X64 to kit number suffix.	

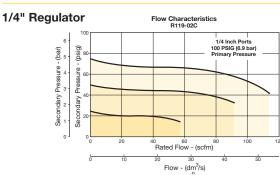
REGULATOR PRESSURE ADJUSTMENT – The working range of knob

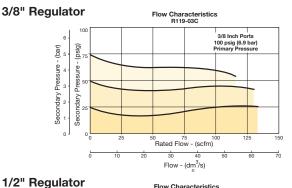
regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing

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

Air Preparation Products Regulator Products

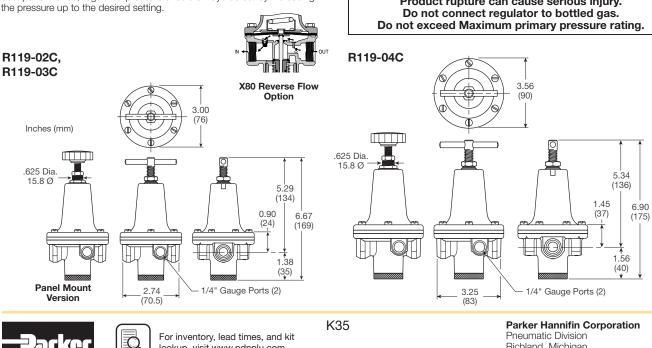
Flow Charts





Flow Characteristics R119-04C 1/2 Inch Ports 100 PSIG (6.9 bar) Primary Pressure - (bar) (psig) Secondary Pressure -Pressure Secondary Rated Flow - (scfm Flow - (dm³/s)

Product rupture can cause serious injury. Do not connect regulator to bottled gas.



Richland, Michigan www.parker.com/pneumatics

Precision Water

General

Dial

Pilot

Proportional

K Regulator Products

CAUTION:

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products

Air Preparation Products **Regulator Products**

R119 Regulators – Hi-Flow

- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet design for quick and accurate regulation
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Heavy duty tee handle adjustment
- Reverse flow version available
- 3/4", 1", 1-1/2" ports (NPT, BSPP)



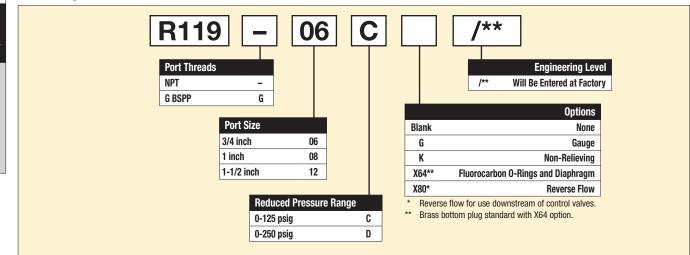
Port Size	Description (0-125 psig reduced pressure)	Part Number
3/4"	Without gauge, relieving, NPT	R119-06C
3/4"	With gauge, relieving, NPT	R119-06CG
1"	Without gauge, relieving, NPT	R119-08C
1"	With gauge, relieving, NPT	R119-08CG
1-1/2"	Without gauge, relieving, NPT	R119-12C
1-1/2"	With gauge, relieving, NPT	R119-12CG



Operating information

Supply pressure (max)		300 psig (0 to 20.7 bar)
Reduced pressure ran	ge:	2 to 125 psig (0.15 to 8.5 bar)
Operating temperature	:	40°F to 125°F (4.4°C to 52°C)
Flow capacity ⁺ : High flow	3/4" 1" 1-1/2"	300 scfm (141.6 dm³/s, ANR) 400 scfm (188.8 dm³/s, ANR) 500 scfm (236 dm³/s, ANR)
Gauge ports (2):		1/4 inch
Weight:	3/4" 1" 1-1/2"	6.2 lb (2.81 kg) 6.2 lb (2.81 kg) 7.2 lb (3.27 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.		

Ordering Information:



Most popular.



Catalog 0700P-8 Hi-Flow Regulators

Material Specifications

Adjusting screw, springs	Steel
Body, spring cage	Zinc
Bottom plug	Nylon
Innervalve	Brass
Seals	Buna N

Repair and Service Kits

•	
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit	18B57
Non-relieving diaphragm, valve assembly (3/4", 1")	RK118B
Non-relieving diaphragm, valve assembly (1-1/2")	RK118D
Relieving diaphragm, valve assembly (3/4", 1")	RK119B
Relieving diaphragm, valve assembly (1-1/2")	RK119D
For Elyeroportop Depair Kita, add VC4 to kit pumber auffix	

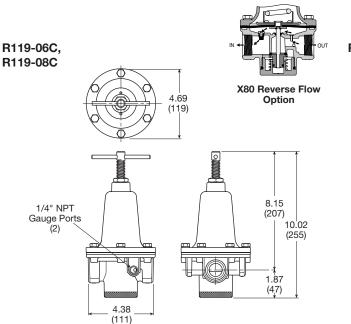
For Fluorocarbon Repair Kits, add X64 to kit number suffix.

🗥 WARNING

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CAUTION:

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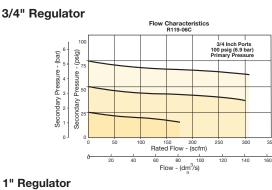
Inches (mm)

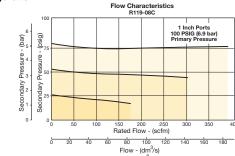
Regulator Products
Flow Charts

(Revised 03-28-17)

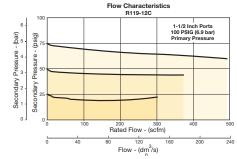
Flow Gharts

Air Preparation Products

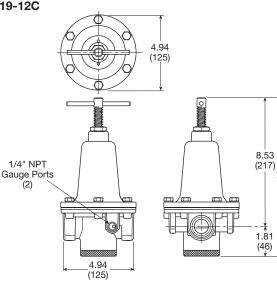




1-1/2" Regulator



R119-12C



10.34

(263)



K37

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

Part Number

R216-02F

R216-03F

R216-03FP

R216 Semi-Precision Regulators

- High flow performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated with large surface area and aspirator for quick and precise regulation
- Heavy duty tee handle adjustment

Description (Relieving Type)

Tee Handle, Without Gauge, NPT

Tee Handle, Without Gauge, NPT

Hand Wheel Knob, Without Gauge, NPT

Hand Wheel Knob, Without Gauge, NPT

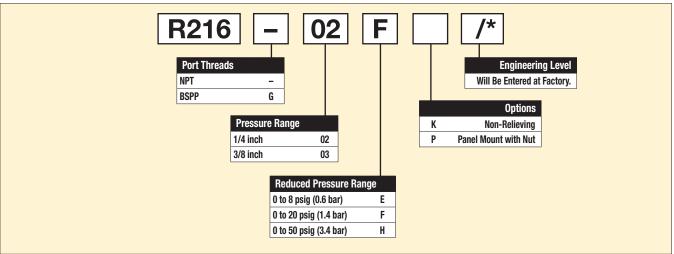
- Panel mount version available
- 1/4", 3/8" ports (NPT BSPP)





Operating information	
Supply pressure:	300 psig (20.7 bar)
Reducted pressure range:	0.5 to 20 psig (0.03 to 1.4 bar)
Operating temperature:	40°F to 125°F (4.4°C to 52°C)
Flow capacity [†] :	40 scfm (19.3 dm³/s, ANR)
Gauge ports (1):	1/8 inch
Weight:	2.2 lb (100 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.	

Ordering Information:



Most popular.



C

K38

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

Regulator Products

Precision

General

Dial

Pilot

Proportional

Port Size

1/4"

1/4"

3/8"

3/8"

Catalog 0700P-8 Semi-Precision Regulators

Material Specifications

Body, spring cage	Zinc
Bottom plug	Brass
Seals	Buna N

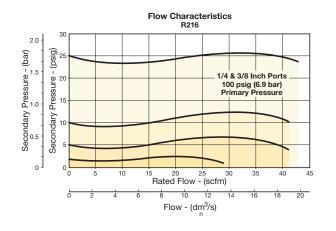
Repair and Service Kits

118Y51
4206
RK216KY
RK216Y

Air Preparation Products **Regulator Products**

Flow Charts

R216 1/4" & 3/8" Regulator



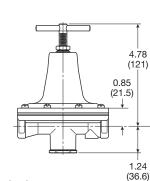
Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed Maximum primary pressure rating.

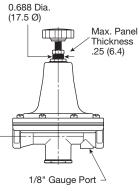
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Inches (mm)

General

Dial

Pilot

Proportional

Precision

Water



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

e rating.

Precision

Water

General

09R Regulators – Hi-Flow

- 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

Description

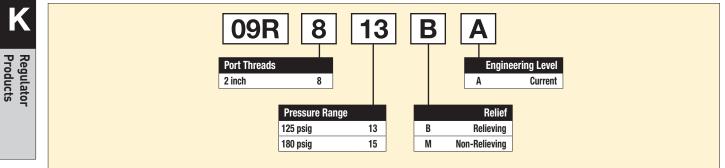
Without gauge, relieving

• 2" ports (NPT)



Operating information	
Supply pressure (max):	300 psig (0 to 20.7 bar)
Secondary pressure range:	10 to 125 psig (0.7 to 8.6 bar) 10 to 180 psig (0.7 to 12.4 bar)
Operating temperature:	32°F to 150°F (0°C to 65.6°C)
Flow capacity [†] : High flow	1000 scfm (472 dm³/s, ANR)
Gauge ports (2):	1/4 inch (can be used as additional full flow 1/4 inch outlet ports)
Weight:	10.82 lb (53 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.	

Ordering Information:



Part Number

09R813BA





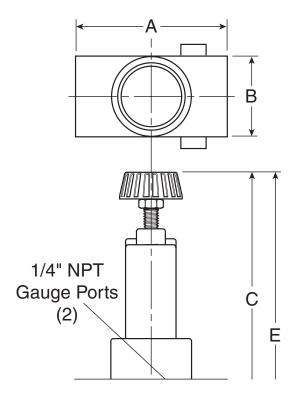
Catalog 0700P-8 Hi-Flow Regulators

Material Specifications

•	
Adjusting stem & springs	Steel
Body	Zinc Alloy
Bonnet, piston stem, valve poppet & cap	Aluminum
Piston, cap	Plastic
Seals	Nitrile

Repair and Service Kits

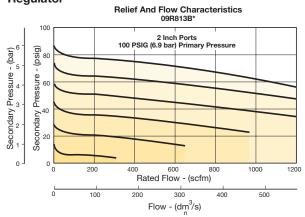
Body service kit	PS603P
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit	PS605P
Non-relieving	PS604P
Relieving	PS626P
0 to 125 psig spring	PS602P
0 to 180 psig spring	PS627



Air Preparation Products **Regulator Products**

Flow Charts

2" Regulator



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Dial

Pilot

Proportional

Precision



C

51R Regulators – Relieving

- Pressure reference indicating dial face
- Non-rising, pressure-adjustment dial
- Self-relieving

General

Dial

Pilot

Proportional

Precision

Water

K

Regulator Products

- Full pressure adjustment in less than one full turn
- Recommended for pilot-air applications
- Constant bleed, piston operated
- 1/4" port (NPT, BSPP)



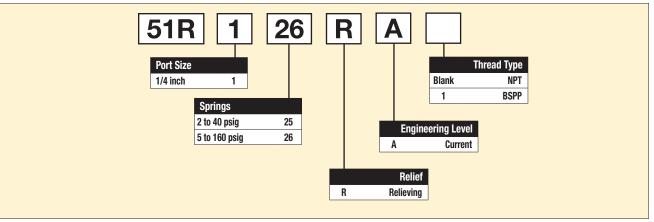
Port Size	Description	Part Number
1/4"	Standard Pressure 5 to 160 psig (0.34 to 11 bar)	51R126RA
1/4"	Low Pressure 2 to 40 psig (0.14 to 3 bar)	51R125RA



Operating information

Adjusting pressure range:	2 to 40 psig (0 to 2.8 bar) 5 to 160 psig (0 to 11.0 bar)
Bleed Rate:	0.05 scfm (0.02 dm³/s, ANR)
Operating temperature (max):	32°F to 150°F (0°C to 65.6°C)
Supply pressure (max):	300 psig (20.7)
Flow capacity [†] :	0.7 scfm (0.3 dm³/s, ANR)
Weight:	1.3 lb (0.5 kg)
 * scfm = Inlet pressure 100 psig (6.9 b 90 psig (6.2 bar). 	ar) inlet. Secondary pressure

Ordering Information:







Catalog 0700P-8 Semi-Precision Regulators

Material Specifications

Body	Zinc
Bonnet	Zinc / brass
Piston	Acetal
Seals	Nitrile
Springs	Steel
Valve assembly	Brass / nitrile / acetal

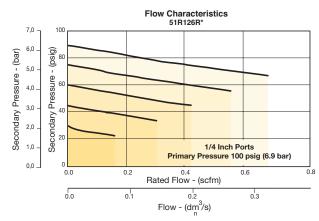
Repair and Service Kits

Adjustment dial knob	RRP-16-024
O-ring, repair kit	GRP-95-260
Piston and bonnet repair kit	RRP-95-765
Spring, regulation, belleville washer, 2 to 40 psig (2.8 bar)	RRP-95-906
Spring, regulation, belleville washer, 5 to 160 psig (11.0 bar)	RRP-95-905
Tamper resistant kit	RRP-95-585
Valve, pilot with o-ring and valve spring	RRP-96-934

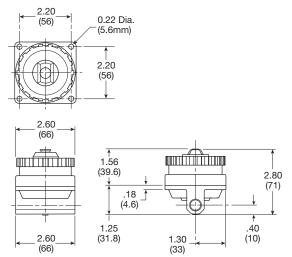
Air Preparation Products **Regulator Products**

Flow Charts

51R 1/4" Regulator



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



Inches (mm)



K

Regulator Products

General

Dial

Pilot

Proportional

Precision

Dial Pilot Proportional Precision

Water

K

Regulator Products

General

52R	Regulators –	Relieving

- Balanced poppet design
- Non-rising, pressure-adjusting dial
- High-relief flow (3/16" relief orifice)
- Two 1/4" gauge ports
- Constant bleed, piston operated
- 1/4", 3/8", 1/2", 3/4" ports (NPT, BSPP)



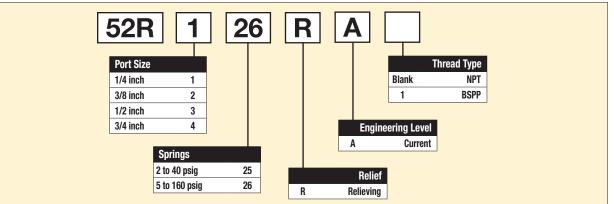
Port Size	Description	Part Number
1/4"	Standard Pressure 5 to 160 psig (0.34 to 11 bar)	52R126RA
1/4"	Low Pressure 2 to 40 psig (0.14 to 3 bar)	52R125RA
3/8"	Standard Pressure 5 to 160 psig (0.34 to 11 bar)	52R226RA
3/8"	Low Pressure 2 to 40 psig (0.14 to 3 bar)	52R225RA
1/2"	Standard Pressure 5 to 160 psig (0.34 to 11 bar)	52R326RA
1/2"	Low Pressure 2 to 40 psig (0.14 to 3 bar)	52R325RA
3/4"	Standard Pressure 5 to 160 psig (0.34 to 11 bar)	52R426RA
3/4"	Low Pressure 2 to 40 psig (0.14 to 3 bar)	52R425RA



Operating information

Adjusting pressure ra	ange:	2 to 40 psig (0 to 2.8 bar) 5 to 160 psig (0 to 11.0 bar)
Bleed Rate:		0.05 scfm (0.02 dm³/s, ANR)
Operating temperatu	ure (max):	32°F to 150°F (0°C to 65.6°C)
Supply pressure (ma	IX):	300 psig (20.7)
Flow capacity ⁺ :	1/4" 3/8" 1/2" 3/4"	117 scfm (55.2 dm³/s, ANR) 180 scfm (85 dm³/s, ANR) 195 scfm (92 dm³/s, ANR) 220 scfm (103.8 dm³/s, ANR)
Gauge ports:		Two ports 1/4" (can be used as additional high flow 1/4 inch outlet ports)
Weight:		2.3 lb (1.04 kg)
 scfm = Inlet pressure 90 psig (6.2 bar). 	100 psig (6.9	bar) inlet. Secondary pressure

Ordering Information:



Most popular.



C

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

Catalog 0700P-8 **Semi-Precision Regulators**

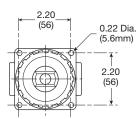
Material specifications

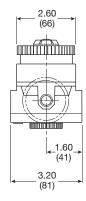
Body	Zinc
Bonnet	Zinc / brass
Piston	Acetal
Seals	Nitrile
Springs	Steel
Valve assembly	Brass / nitrile / acetal

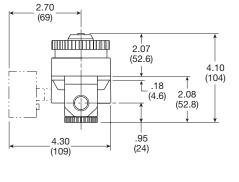
Repair and Service Kits

Adjustment dial knob	RRP-16-024
O-ring, repair kit	GRP-95-260
Piston bottom and o-ring seal	RRP-95-192
Pistons and bonnet repair kit	RRP-95-766
Spring, regulation, belleville washer – 2 to 40 psig range	RRP-95-906
Spring, regulation, belleville washer – 5 to 160 psig range	RRP-95-905
Tamper resistant kit	RRP-95-585
Valve, main with U-cup seal & bottom plug	RRP-95-914
Valve, main with U-cup seal	RRP-95-151
Valve, pilot with o-ring and valve spring	RRP-96-934

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





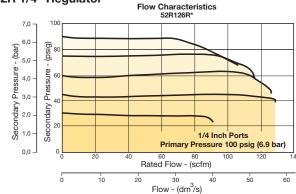


Inches (mm)

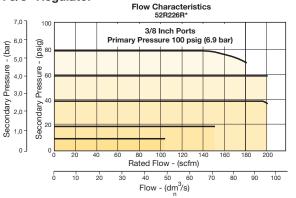
Air Preparation Products Regulator Products

Flow Charts

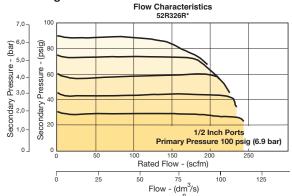
52R 1/4" Regulator



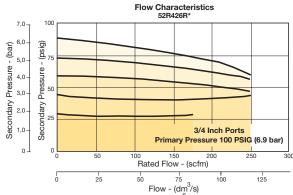
52R 3/8" Regulator



52R 1/2" Regulator



52R 3/4" Regulator



K45

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



K

Regulator Products

Precision

General

Dial

Pilot

Proportional

Air Preparation Products **Regulator Products**

Pilot Proportional Precision Water

Regulator Products Port Size

3/4"

3/4"

1"

1"

1-1/4"

1-1/4"

General

Dial

53R Regulators – Relieving

- Balanced poppet design
- Non-rising, pressure-adjusting dial
- High-relief flow (3/16" relief orifice)
- Two 1/4" gauge ports
- Constant bleed, piston operated
- 3/4", 1", 1-1/4" ports (NPT, BSPP)



_			
5			

Part Number

53R426RA

53R425RA

53R526RA

53R525RA

53R626RA

53R625RA



Operating information

Adjusting pressure range:		2 to 40 psig (0 to 2.8 bar) 5 to 160 psig (0 to 11.0 bar)	
Bleed Rate:		0.05 scfm (0.02 dm³/s, ANR)	
Operating temperature	e (max):	32°F to 150°F (0°C to 65.6°C)	
Supply pressure (max)	:	300 psig (20.7)	
Flow capacity [†] :	3/4" 1" 1-1/4"	400 scfm (188.8 dm³/s, ANR) 650 scfm (306.8 dm³/s, ANR) 700 scfm (330.4 dm³/s, ANR)	
Gauge ports:		Two ports 1/4" (can be used as additional high flow 1/4 inch outlet ports)	
Weight:		2.3 lb (1.04 kg)	
 [†] scfm = Inlet pressure 100 psig (6.9 bar) inlet. Secondary pressure 80 psig (5.5 bar). 			

Ordering Information:

Description

(0.34 to 11 bar)

(0.14 to 3 bar)

(0.34 to 11 bar)

(0.14 to 3 bar)

(0.34 to 11 bar)

(0.14 to 3 bar)

Standard pressure 5 to 160 psig

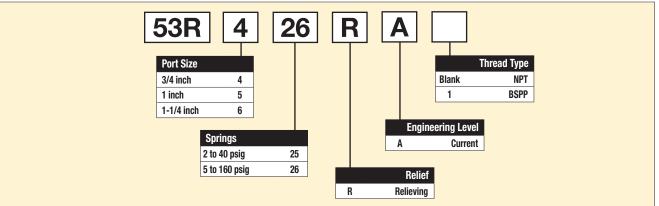
Standard pressure 5 to 160 psig

Standard Pressure 5 to 160 psig

Low Pressure 2 to 40 psig

Low Pressure 2 to 40 psig

Low pressure 2 to 40 psig



Most popular.



C

Catalog 0700P-8 Semi-Precision Regulators

Material Specifications

-	
Body	Zinc
Bonnet	Zinc / brass
Piston	Acetal
Seals	Nitrile
Springs	Steel
Valve assembly	Brass / nitrile / acetal

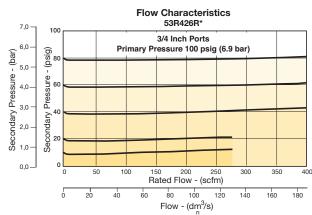
Repair and Service Kits

Adjustment dial knob	RRP-16-024
O-ring, repair kit	GRP-95-261
Piston, bottom and o-ring seal	RRP-95-192
Pistons and bonnet repair kit	RRP-95-766
Spring, regulation, belleville washer – 2 to 40 psig range	RRP-95-906
Spring, regulation, belleville washer – 5 to 160 psig range	RRP-95-905
Tamper resistant kit	RRP-95-585
Valve, main with o-ring seal	RRP-95-152
Valve, pilot with o-ring and valve spring	RRP-96-935

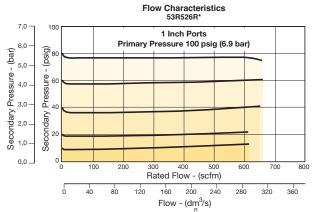
Air Preparation Products Regulator Products

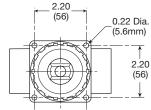
Flow Charts

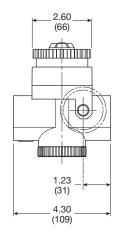
53R 3/4" Regulator



53R 1" Regulator







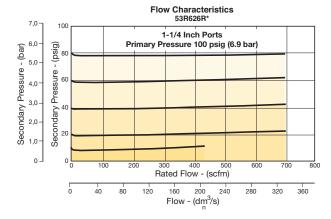
5.20 (132) 1.70 (43) 1.23 (31) 4.30 (109)

3.00

(76)

Inches (mm)

53R 31-14" Regulator



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



For inventory, lead times, and kit lookup, visit www.pdnplu.com

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

General

Dial

Pilot

Proportional

Precision

Regulator Products Balanced poppet design

• Two 1/4" gauge ports

Description

(0.34 to 11 bar)

(0.14 to 3 bar)

(0.34 to 11 bar)

(0.14 to 3 bar)

Standard Pressure 5 to 160 psig

Standard Pressure 5 to 160 psig

Low Pressure 2 to 40 psig

Low Pressure 2 to 40 psig

• Non-rising, pressure-adjusting dial • High-relief flow (3/16" relief orifice)

54R Regulators – Relieving

Air Preparation Products Regulator Products

• Constant bleed, piston operated Dial • 1-1/2", 2" ports (NPT, BSPP) Pilot Proportional Port Size 1-1/2" Precision

1-1/2"

2"

2"

General



Part Number

54R726RA

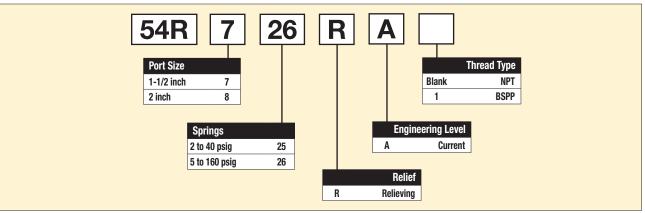
54R725RA

54R826RA

54R825RA

	Operating information				
	Adjusting pressure ran	ge:	2 to 40 psig (0 to 2.8 bar) 5 to 160 psig (0 to 11.0 bar)		
	Bleed Rate:		0.05 scfm (0.02 dm ³ /s, ANR)		
	Operating temperature	(max):	32°F to 150°F (0°C to 65.6°C)		
-	Supply pressure (max)	:	300 psig (20.7)		
	Flow capacity [†] :	1-1/2" 2"	1,600 scfm (755 dm³/s, ANR) 1,600 scfm (755 dm³/s, ANR)		
	Gauge ports:		Two ports 1/4" (can be used as additional high flow 1/4 inch outlet ports)		
	Weight:		9 lb (4.1 kg)		
	[†] scfm = Inlet pressure 100 psig (6.9 bar) inlet. Secondary pressure 80 psig (5.5 bar).				

Ordering Information:



Most popular.





For inventory, lead times, and kit lookup, visit www.pdnplu.com

K48

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

K

Regulator Products

Catalog 0700P-8 Semi-Precision Regulators

Material Specifications

Body	Zinc
Bonnet	Zinc / brass
Piston	Zinc
Seals	Nitrile
Springs	Steel
Valve assembly	Brass / nitrile / acetal

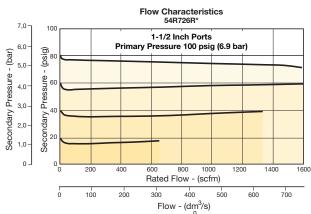
Repair and Service Kits

Adjustment dial knob	RRP-16-024
O-ring, repair kit	GRP-95-262
Piston, bottom and o-ring seal	RRP-95-192
Pistons and bonnet repair kit	RRP-95-766
Spring, regulation, belleville washer – 2 to 40 psig range	RRP-95-906
Spring, regulation, belleville washer – 5 to 160 psig range	RRP-95-905
Spring, main valve	RRP-95-024
Tamper resistant kit	RRP-95-585
Valve, main with o-ring seal	RRP-95-153
Valve, pilot with o-ring and valve spring	RRP-96-935

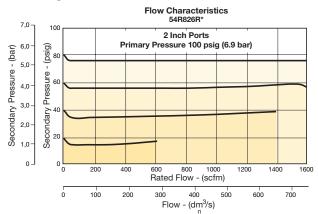
Air Preparation Products **Regulator Products**

Flow Charts

54R 1-1/2" Regulator



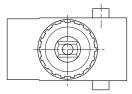
54R 2" Regulator

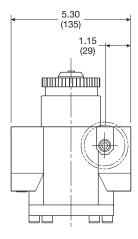


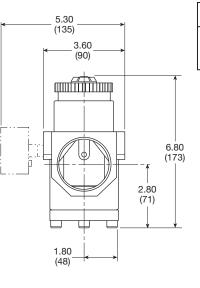
Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed Maximum primary pressure rating.







Inches (mm)



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

Water

General

Dial

Pilot

Proportional

Precision

11R Pilot Controlled Regulator – Compact

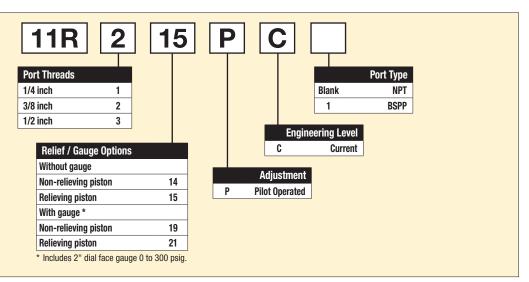
- Balanced poppet provides quick response and accurate pressure regulation
- Pilot controlled regulators can be mounted "out of reach" with pilot regulator installed in a convenient location
- Solid control piston for extended life
- Two full flow 1/4" gauge ports can be used as additional outlets
- Pilot port 1/4 Inch
- 1/4", 3/8", 1/2" ports (NPT, BSPP)



Description	Part Number
Without Gauge	11R115PC
With 160 psi Gauge	11R121PC
Without Gauge	11R215PC
With 160 psi Gauge	11R221PC
Without Gauge	11R315PC
With 160 psi Gauge	11R321PC
	Without Gauge With 160 psi Gauge Without Gauge With 160 psi Gauge Without Gauge

NOTE: 2.0 Dia. (51 mm) hole required for panel mounting.

Ordering Information:



Most popular.



K50

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



Operating information				
Supply pressure (max)	:	0 to 250 psig (0 to 17.2 bar)		
Operating temperature	:	32°F to 175°F (0°C to 80°C)		
Flow capacity [†] : High flow Gauge ports (2):	1/4" 3/8" 1/2"	85 scfm (40 dm ³ /s, ANR) 95 scfm (44.8 dm ³ /s, ANR) 95 scfm (44.8 dm ³ /s, ANR) 1/4 inch (can be used as additional full flow 1/4 inch outlet ports)		
Weight:		1.3 lb (0.53 kg)		
* scfm = Standard cubic fea setting and 10 psig press		at 100 psig inlet, 90 psig no flow secondary		

Water

K Regulator Products

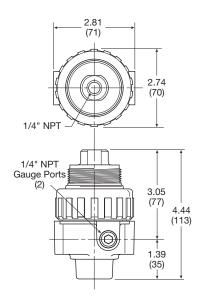
Catalog 0700P-8 Compact Pilot Controlled Regulators

Material Specifications

Body& pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

Repair and Service Kits

•	
Seat Insert kit	PS713P
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Mounting bracket kit (includes panel mount nut)	PS707P
Panel mount nut, plastic	P04082
Panel mount nut, metal	P04079B
Pilot conversion kit – relieving	PS745P
Non-Relieving	PS747P
Relieving	PS749P

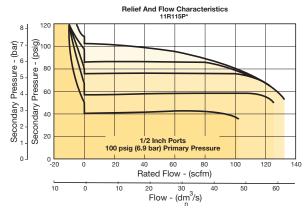


Inches (mm)

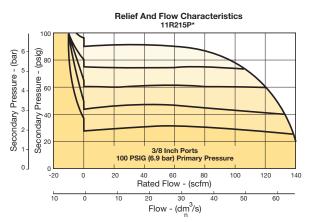
Air Preparation Products Regulator Products

Flow Charts

1/2" Regulator



3/8" Regulator



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

Dial

Pilot

Proportional

Precision

Water



For inventory, lead times, and kit lookup, visit www.pdnplu.com

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

12R Pilot Controlled Regulator – Standard

Part Number

12R315PB

12R321PB

12R415PB

- 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

Description

Without Gauge

Without Gauge

With 160 psi Gauge

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products Port Size

1/2"

1/2"

3/4"

• 1/2", 3/4" ports (NPT, BSPP, BSPT)



Operating information

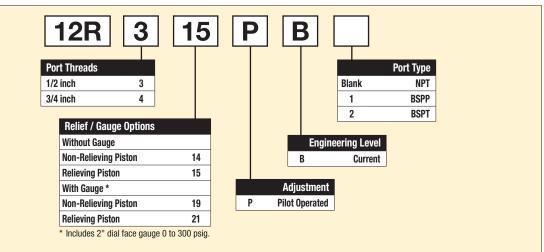
Supply pressure (max)	:	0 to 250 psig (0 to 17.2 bar)	
Operating temperature:		32°F to 175°F (0°C to 80°C)	
Flow capacity [†] : High flow	1/2" 3/4"	140 scfm (66 dm³/s, ANR) 140 scfm (66 dm³/s, ANR)	
Gauge ports (2):		1/4 inch (can be used as additional full flow 1/4 inch outlet ports)	
Weight:		2.0 lb (0.91 kg)	
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary			

setting and 10 psig pressure drop.

 3/4"
 With 160 psi Gauge
 12R421PB

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

Ordering Information:



Most popular.



C

Catalog 0700P-8 Standard Pilot Controlled Regulators

Material Specifications

Body& pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

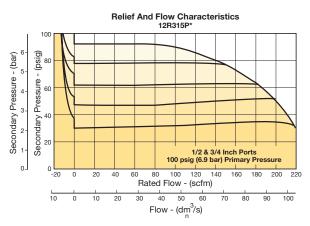
Repair and Service Kits

Seat insert kit	PS813P
2" dial face 60 psig (0 to 4.1 bar)	K4520N14060
2" dial face 160 psig (0 to 11.0 bar)	K4520N14160
2" dial face 300 psig (0 to 20.7 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, plastic	P04082
Panel mount nut, metal	P04079B
Pilot conversion kit – relieving	PS745P
Non-relieving	PS847P
Relieving	PS849P

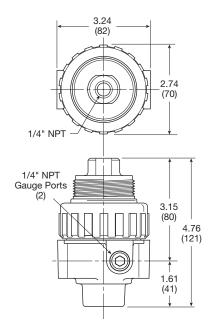
Air Preparation Products **Regulator Products**

Flow Charts

1/2 and 3/4" Regulator



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



Inches (mm)

General

Dial

Pilot

Proportional

Precision

Water



P3NR Pilot Controlled Regulator - Hi-Flow

- 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
- 3/4", 1" 1-1/2" ports (NPT, BSPP)



Port Size	Description	Part Number
3/4"	Without Gauge	P3NRA96BPP
1"	Without Gauge	P3NRA98BPP
1-1/2"#	Without Gauge	P3NRA9PBPP

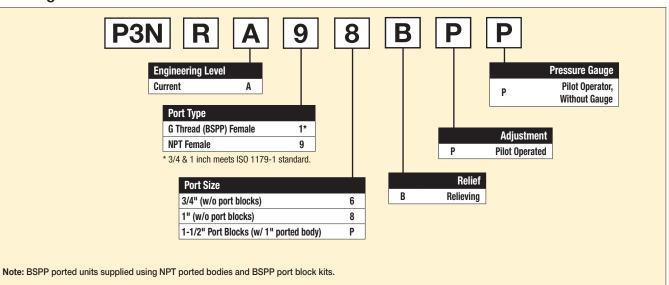
[#] 1" port body with 1-1/2" port block.



Operating information

Supply pressure (max):		250 psig (17.2 bar)	
Operating temperature:		32°F to 175°F (0°C to 80°C)	
Flow capacity [†] : High flow 3/4" 1" 1-1/2"		300 scfm (141.6 dm³/s, ANR) 300 scfm (141.6 dm³/s, ANR) 350 scfm (165.2 dm³/s, ANR)	
Gauge ports (2):		1/4 inch	
Weight:	3/4", 1" 1-1/2" [#]	3.3 lb (1.5 kg) 4.4 lb (2.0 kg)	
 [†] scfm = Standard cubic feet per minute at 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop. [#] 1" port body with 1-1/2 port block 			

Ordering Information:



Most popular.



General

Dial

Pilot

Catalog 0700P-8 Hi-Flow Pilot Controlled Regulators

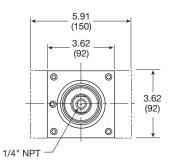
Material Specifications

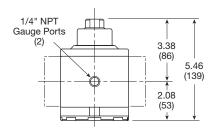
Adjusting stem	Steel
Body	Aluminum
Bonnet	Aluminum
Piston	Plastic
Poppet assembly	Brass
Seals	Nitrile
Springs – poppet	Steel

Repair and Service Kits

2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 70 11.0 bar), gauge	K4517N14160D
Mounting bracket kit*	P3NKA00MW
Relieving	P3NKA00PD

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

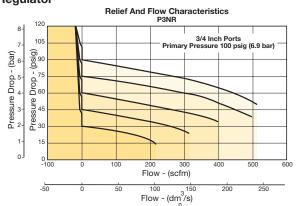




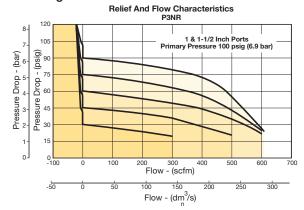
Air Preparation Products **Regulator Products**

Flow Charts

3/4" Regulator



1" & 1-1/2" Regulator



\land WARNING

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

Regulator Products

General

Dial

Pilot

Proportional

Precision

Water



Inches (mm)



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

Dial

Pilot

Proportional

Precision

Water

R119 – Pilot Operated Regulators

- 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 performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation.
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Reverse flow available
- 1/4", 3/8", 1/2" ports (NPT, BSPP)



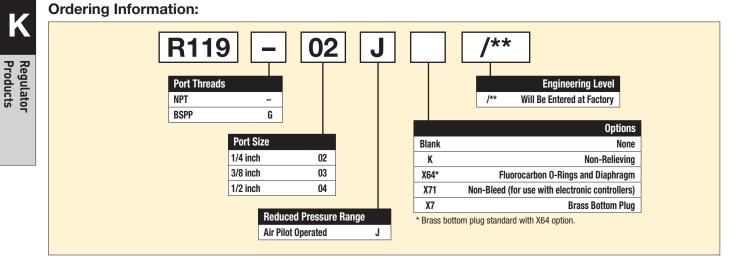
Port Size	Description (0-125 psig reduced pressure)	Part Number
1/4"	Without Gauge, Relieving, NPT	R119-02J/M2
3/8"	Without Gauge, Relieving, NPT	R119-03J/M2
1/2"	Without Gauge, Relieving, NPT	R119-04J/M2



Operating information

Supply pressure (max):		300 psig (0 to 20.7 bar)	
Air consumption:		Constant bleed from air pilot chamber: approx. 0.17 scfm (10 scfh)	
Operating temperatu	ire:	40°F to 125°F (4.4°C to 52°C)	
Pilot pressure:		1/4", 3/8" thread - 1/8" 1/2" thread - 1/4"	
Reduced pressure ra	ange:	Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure	
Flow capacity [†] :			
High flow	1/4" 3/8" 1/2"	100 scfm (47.2 dm³/s, ANR) 110 scfm (51.9 dm³/s, ANR) 150 scfm (70.8 dm³/s, ANR)	
Gauge ports (2):		1/4 inch	
Weight:	1/4" 3/8" 1/2"	1.6 lb (0.73 kg) 1.6 lb (0.73 kg) 2.6 lb (1.18 kg)	
[†] scfm = Standard cubic	feet per minute	at 100 psig inlet. 75 psig no flow secondary	

setting and 20 psig pressure drop.



Most popular.



C

Catalog 0700P-8 R119 Regulators

Material Specifications

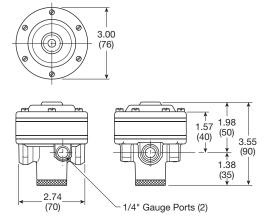
Body, ring, top plate	Zinc
Bottom plug	Nylon
Innervalve	Brass
Seals	Buna N

Repair and Service Kits

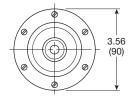
•	
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Non-relieving diaphragm, valve assembly (1/2")	RK118X20A
Non-relieving diaphragm, valve assembly (1/4", 3/8")	RK118X20Y
Relieving diaphragm, valve assembly (1/2")	RK119X20A
Relieving diaphragm, valve assembly (1/4", 3/8")	RK119X20Y

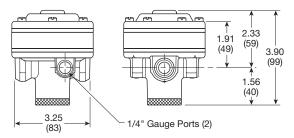
For fluorocarbon repair kits, add X64 to kit number suffix. For non-bleed pilot repair kits, add X71 to kit number suffix.

R119-02J, R119-03J



R119-04J





Inches (mm)

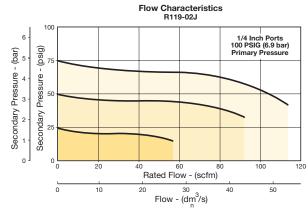


K57

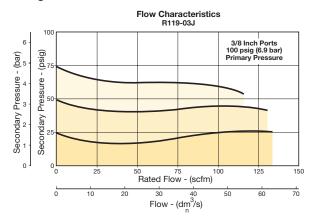
Air Preparation Products **Regulator Products**

Flow Charts

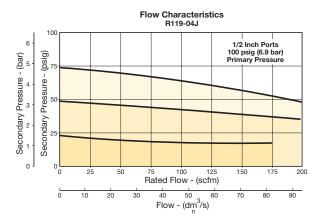
1/4" Regulator











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

Dial

Pilot

Proportional

Precision

Water

Regulator Products



R119 Pilot Operated Regulators - Hi-Flow

- 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 performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Diaphragm operated design with balanced poppet and constant bleed pilot for quick and accurate regulation
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Reverse flow version available
- 3/4", 1", 1-1/2" ports (NPT, BSPP)



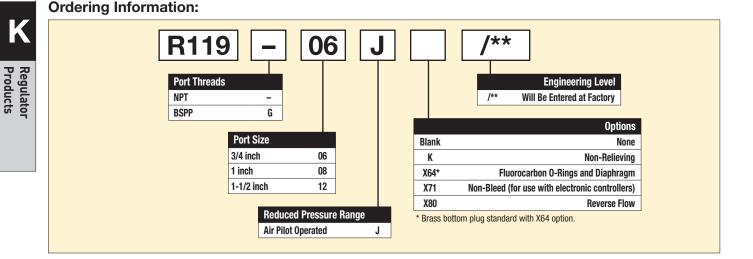
Port Size	Description (0-125 psig reduced pressure)	Part Number
3/4"	Without gauge, relieving, NPT	R119-06J/M2
1"	Without gauge, relieving, NPT	R119-08J/M2
1-1/2"	Without gauge, relieving, NPT	R119-12J/M2



Operating information

Supply pressure (max):		300 psig (0 to 20.7 bar)
Air consumption:		Constant bleed from air pilot chamber: approx. 0.17 scfm (10 scfh)
Operating temperature:		40°F to 125°F (4.4°C to 52°C)
Reduced pressure range:		Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity [†] :		
High flow	3/4" 1" 1-1/2"	300 scfm (141.6 dm³/s, ANR) 300 scfm (141.6 dm³/s, ANR) 500 scfm (236 dm³/s, ANR)
Gauge ports (2):		1/4 inch
Weight:	3/4" 1" 1-1/2"	5.2 lb (2.36 kg) 5.2 lb (2.36 kg) 5.6 lb (2.54 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary		

setting and 20 psig pressure drop.



Most popular.



C

K58

Water

Genera

Dial

Pilot

Catalog 0700P-8 **Hi-Flow Regulators**

Material Specifications

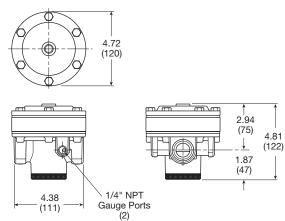
Body, ring, top plate	Zinc
Bottom plug, innervalve	Brass
Seals	Buna N

Repair and Service Kits

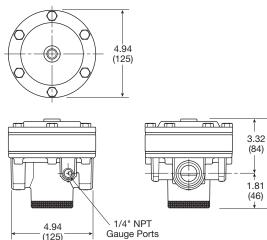
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Non-relieving diaphragm, valve assembly (3/4", 1")	RK118X20B
Non-relieving diaphragm, valve assembly (1-1/4", 1-1/2")	RK118X20D
Relieving diaphragm, valve assembly (3/4", 1")	RK119X20B
Relieving diaphragm, valve assembly (1-1/4", 1-1/2")	RK119X20D

For Fluorocarbon Repair Kits, add X64 to Kit Number suffix.

R119-06J, R119-08J

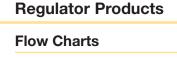


R119-12J



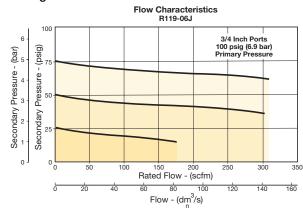
(2)

Inches (mm)

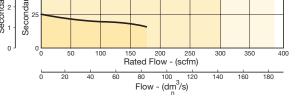


Air Preparation Products

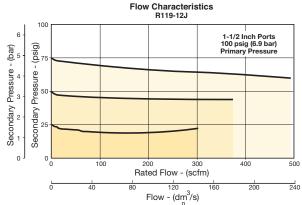
3/4" Regulator



1" Regulator Flow Characteristics R119-08J 100 1 Inch Ports 100 psig (6.9 bar) Primary Pressure 6 (psig) Secondary Pressure - (bar) Secondary Pressure



1-1/2" Regulator



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

5.13

(130)



(125)

For inventory, lead times, and kit lookup, visit www.pdnplu.com

K59

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

Pilot Proportional Precision Water

General

Dial

K

Regulator Products

R119 Pilot Operated Regulators - Hi-Flow

- 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 performance featuring rugged design for the most demanding applications
- Ideal for those installations calling for constant pressure with wide variation in flow
- Piston operated design with balanced poppet and dual constant bleed for quick and accurate regulation
- 2", 2-1/2" ports (NPT, BSPP)

Description

(0-125 psig reduced pressure)

Without Gauge, Relieving, NPT

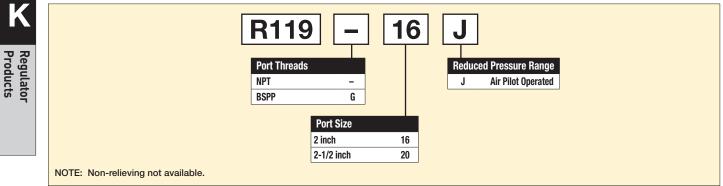
Without Gauge, Relieving, NPT



Operating information

Supply pressure (max): Air consumption:	300 psig (0 to 20.7 bar)
Constant bleed from	Air pilot chamber: approx. 0.17 scfm (10 scfh)
	Reduced pressure: approx. 0.17 scfm (10 scfh)
Operating temperature:	40°F to 120°F (4.4°C to 48.9°C)
Reduced pressure range:	Adjustable to within 5 to 7 psig (0.34 to 0.48 bar) of supply pressure
Flow capacity [†] :	
High flow 2" 2-1/2"	1800 scfm (850 dm³/s, ANR) 1800 scfm (850 dm³/s, ANR)
Gauge ports (2):	
Can be used for full flow High pressure outlet for pilot	1/4 inch 1/4 inch
Weight:	15 lb (6.8 kg)
[†] scfm = Standard cubic feet per minute at 100 psig inlet, 75 psig no flow secondary setting and 20 psig pressure drop.	

Ordering Information:



Part Number

R119-16J

R119-20J





Water

Port

Size

2-1/2"

2"

General

Dial

Catalog 0700P-8 Hi-Flow Regulators

Air Preparation Products **Regulator Products**

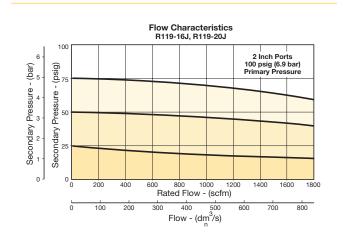
Flow Charts

Material Specifications

Body, piston	Aluminum
Seals	Buna N
Innervalve	Brass & stainless

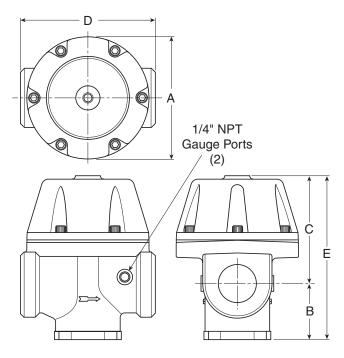
Repair and Service Kits

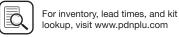
2" dial face 60 psig (0 to 4.1 bar), gauge	K4520N14060
2" dial face 160 psig (0 to 11.0 bar), gauge	K4520N14160
2" dial face 300 psig (0 to 20.7 bar), gauge	K4520N14300
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	K4517N14160D
Piston type regulation (2", 2-1/2")	RK119G



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

R119-16J, R119-20J





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

Dial

Pilot

Proportional

Precision

Air Preparation Products Regulator Products

P3Y Pilot Operated Regulator

- Integral 3/4" or 1" ports (BSPP & NPT)
- Pilot controlled regulators can be mounted "out of reach" with pilot regulator installed in a convenient location
- Constant pilot bleed control for accurate pressure control
- · Balanced poppet provides quick response
- High flow



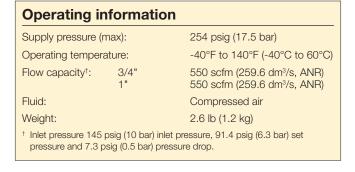
Precision

General

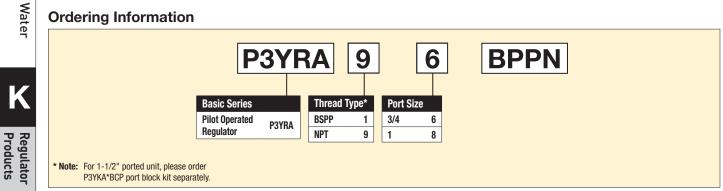
Dial



Port Size	Description	Part Number
3/4"	Pilot Operated Regulator	P3YRA96BPPN
1"	Pilot Operated Regulator	P3YRA98BPPN



Ordering Information







Air Preparation Products **Regulator Products**

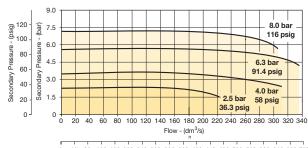
Material specifications

Body	Aluminium
Body cover	ABS
Valve	Brass / NBR composite
Pilot valve booster	Aluminum
Seals	Nitrile NBR
Screws	Zinc plated steel

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

Flow characteristics

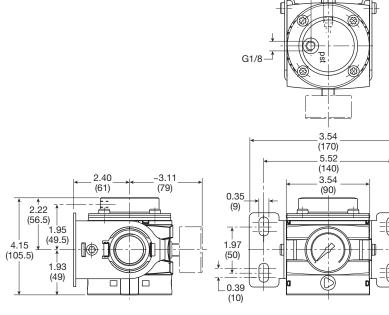
3/4" and 1" Pilot Regulator



1/8

0.75 (19)

0 40 80 120 160 200 240 280 320 360 400 440 480 520 560 600 640 680 720 Flow - (scfm)



Inches (mm)



control signal

P31P & P32P Proportional Regulators

- Very fast response times
- Accurate output pressure
- Parameter settings

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products

- Selectable I/O parameters
- Quick, full flow exhaust
- LED display indicates output pressure

24 VDC

- No air consumption in steady state
- Multiple mounting options
- Protection to IP65





P31P Series Bottom exhaust

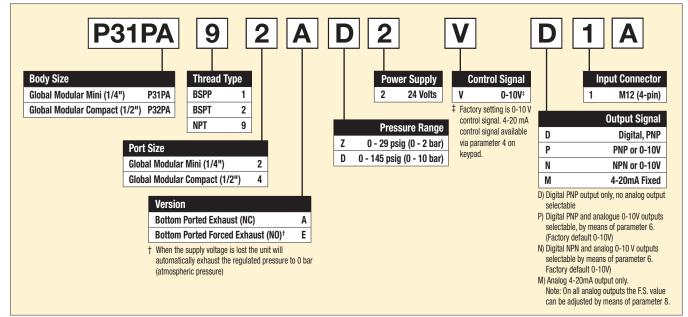
P32P Series Bottom exhaust

Operating information

<u> </u>		
Flow capacity*:	P31P P32P	40 scfm (19 dm³/s, ANR) 120 scfm (57 dm³/s, ANR)
Temperature range:		32°F to 122°F (0°C to 50°C)
Supply pressure (max): 2 bar unit 10 bar unit		36.3 psig (2.5 bar) 152 psig (10.5 bar)
Operating pressure (min):		P2 pressure + 7.3 psig (0.5 bar)
Working medium:		Compressed air or inert gasses, filtered to 40μ
Pressure range:		0 to 30 psig (0 to 2 bar) 0 to 145 psig (0 to 10 bar)
Weight:	P31P P32P	0.64 lb (0.291 kg) 1.42 lb (0.645 kg)
* Inlet pressure 91.3 ps pressure drop.	sig (6.3 bar)	, inlet pressure and 4.9 psig (0.34 bar)

Port
SizeDescriptionPart Number $1/4^{\mu}$ 145 psig (0-10 bar), NC 0-10VP31PA92AD2VD1A $1/2^{\mu}$ 145 psig (0-10 bar), NC 0-10VP32PA92AD2VD1A

Ordering Information:



Most popular.



C

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

(Revised 01-30-18)

Air Preparation Products Regulator Products

Flow Charts

Technical Information

Accuracy

+/- 1.0% of F.S.*

* Full scale (F.S.) - For 2 bar (29 psig) versions this will be 2 bar (29 psig), for the 10 bar (145 psig) version full scale will be 10 bar (145 psig).

Air consumption

No consumption in stable regulated situation.

Display

The regulator is provided with a digital display, indicating the output pressure, either in bar or psig.

The factory setting is as indicated on the label, can be changed through to software at all times (parameter 14)

Supply voltage

24 VDC +/- 10%

Power consumption

Max. 1.1W with unloaded signal outputs

Control signals

The electronic pressure regulator can be externally controlled through an analogue control signal of either 0-10V or 4-20mA. (parameter 4).

Output signals

As soon as the output pressure is within the signal band a signal is given of 24VDC, PNP Ri = 1 kOhm Outside the signal band this connection is 0V.

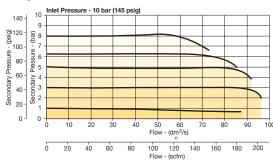
Connections

(In case of output signal (Option D) Central M12 connector 4-pole The electrical connections are as follows:

Pin No.		Function	Color	
1	24 V	Supply	Brown	
2	0 to 10 V	Control Signal Ri = 100k Ω	White	
2	4 to 20mA	Control Signal Ri = 500 Ω	vvinte	
3	0 V (GND)	Supply & Set Point Ground	Blue	
4	24 V	Alarm Output Signal	Black	

P31P Regulator 1/4" Ports Inlet Pressure - 10 bar (145 psig) 10 140 (<u>6</u>120 (bar) 100 Pressure -Secondary Pressure -80 60 condary F 40 Sec 20 0 0 10 20 30 Flow - (dm³/s) 30 40 Flow - (scfm) Ó 10 20 50 60 70

P32P Regulator 1/2" Ports



Degree of protection: IP65

EU conformity

CE: standard

EMC: according to directive 89/336/EEC This pressure regulator is in accordance with:

EN 61000-6-1:2001	EN 61000-6-2:2001
EN 61000-6-3:2001	EN 61000-6-4:2001

Mounting position

Preferably vertical, with the cable gland on top.

Materials: P31P & P32P

Magnet core	Steel
Solenoid valve poppet	FPM
Solenoid valve housing	Techno polymer
Regulator body (P31P & P32P versions)	Aluminum
Regulator top housing	Nylon
Valve head	Brass & NBR
Remaining seals	NBR

Proportional Pilot

General

Dial



C

Air Preparation Products **Regulator Products**

How to change parameters - How to Videos available at www.parker.com/pneu/propreg Pressing the Accept key "acc" for more than 3 seconds, will activate parameter change mode. The user can then select the parameters by pressing up or down key (display will show Pxx). parameter settings. When parameter number is correct, pressing accept again will enter parameter number (display will show parameter value). Pressing the up or down key will change the parameter itself Manual mode: (display will flash indicating parameter editing mode). Pressing the accept key will accept the new parameter value (all digits

will flash whilst being accepted). After releasing all keys, the next parameter number will be presented on the display (you may step to the next parameter). When no key is pressed, after 3 seconds the display will show the actual output pressure.

When the unit is initially powered up allow approximately 10 seconds for the unit to "boot-up" before changing

Only parameter numbers 0, 4, 6, 8, 9, 14, 18, 19, 20, 12, 13 and 21 are accessible to edit. All other parameters are fixed.

When keys DOWN and UP are pressed during startup, (connecting to the 24V power supply) manual mode is activated. This means that the user is able to in/decrease the output pressure of the regulator, by pressing the UP or DOWN key. During this action the display will blink, indicating that the manual mode is activated. After powering up again, the unit will revert back to normal mode.

Back to Factory Setting

After start up. (Power is on)

Entering this value in parameter 0 will store the calibrated factory data into the working parameters. (Default calibration data is used)

Parameter Number 0 – Reset Back to Factory Settings

Step	1	2	3	4	5	
Press	acc 3-6 seconds	or	acc	or	acc	
Until Display Reads	$P_{\times \times}$	<i>P</i> [][]	Flashing Decimal	Flashing Decimal	Flashing	P[]
Description	Accesses changeable parameters.	Accesses parameter no. 0.	Displays current parameter value.	Edits parameter. 3 = standard factory settings. If other than 3, use Up or Down Arrow and accept 3	Accepts and saves new parameter setting.	Sequences to next parameter.

Set Control Signal

The unit is factory set for 0-10 V control signal. If 4-20 mA control signal is required, change parameter 4.

Parameter Number 4 – Set Control Signal in Volts or Milliamps

r arameter Number 4 – Get Control Olghar in Volts of Miniamps								
Step	1	2	3	4	5			
Press	acc 3-6 seconds	or	acc	or	acc			
Until Display Reads	$P_{\times \times}$	Р <u>П</u> Ч	Flashing Decimal	Flashing Decimal	Flashing	POS		
Description	Accesses changeable parameters.	Accesses parameter no. 4.	Displays current parameter value. 1 = V 0 = mA	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.		

How to Videos at www.parker.com/pneu/propreg



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

Genera

Dial

Pilot

Proportional

Precision

Water

Set Output Signal

Parameter 6 is used to set the type of output signal to your PLC. This parameter is used as follows:

Output Signal option "0" = Digital Output - PNP

• Factory set at "0" Non Adjustable

Output Signal option "P" = Digital PNP or Analog 1-10V

- Factory set at "1" for Analog Signal
- Convert to Digital PNP by changing parameter to "0" setting

Output Signal option "N" = Digital NPN or Analog 1-10V

- Factory set at "1" Analog Signal
- Convert to Digital NPN by changing parameter to "0"
- Output Signal option "M" = Analog 4-20 mA
 - Factory set at "2" Non Adjustable

Parameter N	umber 6 – Set	Output Signa	I				
Step	1	2	3	4	5		
Press	acc 3-6 seconds	or	acc	or	acc		Pilot
Until Display Reads	$P_{\times \times}$	<i>P</i> 05	Flashing Decimal	Flashing Decimal (Value 0, 1 or 2)	# # # Flashing	<i>P</i> []7	Proportional
Description	Accesses changeable parameters.	Accesses parameter no. 6.	Displays current parameter value. 1 = m factory default for P3H with analog options	Edits parameter. 0 = digital (NPN or PNP) 1 = analog 010V 2 = analog 420 mA	Accepts and saves new parameter setting.	Sequences to next parameter.	Precision

Adjust Span Analog Output Signal

Set value is a % of Full Analog range. As an example for a 0-10V output signal, the original factory setting of 100% will give you an adjustment of 0-10V. If you reset Parameter 8 to 50%, the new output range would be 0-5V or 50% of the full range.

In the event that the output signal is to low, in a certain application, you can adjust it by increasing Parameter 8 to a maximum value of 130% of scale.

Note that all values are nominal and that an actual measurement may be required to ensure signal strength.

Parameter Number 8 – Adjust Span Analog Output Signal									
Step	1	2	3	4	5				
Press	3-6 seconds	or	acc	or	acc				
Until Display Reads	Pxx	P08	Flashing Decimal (For 2 bar versions value = 92)	Flashing Decimal (Value between 0 and 130)	# # # .	P09			
Description	Accesses changeable parameters.	Accesses parameter no. 8.	Displays current parameter value.	Edits parameter.	Accepts and saves new parameter setting and implements the new analog signal span.	Sequences to next parameter.			

How to Videos at www.parker.com/pneu/propreg



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

Dial

General

Regulator Products

Adjust Digital Display

0	Adjust Digital Display											
General	If necessary, adjustments can be made to the digital display when using an external pressure sensor.											
al	Parameter N	Parameter Number 9 – Adjust Digital Display Value (Pressure Calibration)										
	Step	1	2	3	4	5						
	Press											
Dial		acc 3-6 seconds	or	acc	or	acc						
Pilot	Until Display Reads	Pxx	P[]q	# # # . Flashing Decimal	# # # .	# # # Flashing	P 10					
Proportional	Description	Accesses changeable parameters.	Accesses parameter no. 9.	Displays current digital display	Use up or down arrows and accept to adjust the display value if using an external pressure sensor.	Accepts and saves new parameter setting.	Sequences to next parameter.					

Set Pressure Scale

Precision

Water

K

Regulator Products

Units with NPT port threads are supplied with a factory set psig pressure scale. Use parameter 14 to change scale to bar.

Parameter Number 14 – Set Pressure Scale in psig or bar										
Step	1	2	3	4	5					
Press	acc 3-6 seconds	or	acc	or	acc					
Until Display Reads	$P_{\times \times}$	P 4	Flashing Decimal	Flashing Decimal	Flashing	P 15				
Description	Accesses changeable parameters.	Accesses parameter no. 14.	Displays current parameter value. 1 = psig 0 = bar 2 = MPa	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.				

How to Videos at www.parker.com/pneu/propreg



Preset Minimum Pressure

reset wiinin							_
f there is a need fo	or a pre-set Minimu	um pressure, use p	parameter 18. (Note	: preset pressure is	affected by % P1	9.)	General
Parameter N	umber 18 – Se	t Minimum Pr	eset Pressure				Ğ
Step	1	2	3	4	5		
Press	acc 3-6 seconds	or	acc	or	acc		Dial
Until Display Reads	P××	P 18	Flashing Decimal	Flashing Decimal (value between 0 and 200)	# # #	P 19	Pilot
Description	Accesses changeable parameters.	Accesses parameter no. 18.	Displays current parameter value. Incremental value is: <u>2 bar unit:</u> x 2 mbar x % P19 <u>10 bar unit:</u> x 10 mbar x % P19	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.	Proportional

Set Pressure Correction

Pressure correction allows the user to set a Maximum pressure as a percentage of secondary pressure F.S.

Example: If F.S. is 10 bar, set parameter 19 to 50 for Maximum preset pressure of 5 bar.

Pressure correction also affects the Minimum preset pressure in parameter 18.

Example: If F.S. is 10 bar and parameter 18 is set to a value of 100 (1 bar), and parameter 19 is set to 50%, then the actual Minimum preset pressure seen is 0.5 bar.

Parameter N	Parameter Number 19 – Set Maximum Preset Pressure									
Step	1	2	3	4	5		K			
Press	acc 3-6 seconds	or	acc	or	acc		Regulator Products			
Until Display Reads	P××	P 19	Flashing Decimal	Flashing Decimal (value between 0 and 100)	# # #	<i>650</i>	Ľ.			
Description	Accesses changeable parameters.	Accesses parameter no. 19.	Displays current parameter value. Incremental value is: % of F.S.	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.				

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Precision

Water

Behavior Control

General

The regulation speed of the pressure regulator can be modified by means of one parameter. (P 20) The value in this parameter has a range from 0-5. A higher value indicates slower regulation speed, but will be more stable.

Parameter Number 20 – Set Behavior Control

Step	1	2	3	4	5			
Press	acc 3-6 seconds	or	acc	or	acc			
Until Display Reads	P××	<i>P20</i>	Flashing Decimal	Flashing Decimal (value between 0 and 5)	# # #	<i>P2</i>		
Description				Edits parameter 0 = custom set* 1 = fastest (narrow proportional band) 2 = fast				
* When the value 0 i	Accesses changeable parameters.	Accesses parameter no. 20.	Displays current parameter value.	4 = slow 5 = slowest (proportional band is broad)	Accepts and saves new parameter setting.	Sequences to next parameter.		
	Press	Press acc Jointi Display 3-6 seconds Until Display Pxx Reads Pxxx Description Accesses Accesses changeable parameters. Changeable	Press acc 3-6 seconds Image: Constraint of the second	Press acc or acc Jointi Display Pxx P200 acc Until Display Pxx P200 Flashing Decimal Description Accesses Flashing Decimal Accesses parameters. 20. Displays current	Press acc or acc or or Until Display Reads P P P P P P P Flashing Decimal (value between 0 and 5) Flashing Decimal (value between 0 and 5) Description Accesses changeable parameters. Accesses parameter no. 20. Displays current parameter value. Displays current parameter value. Displays current parameter value. Displays current parameter value. Displays current parameter value.	Press acc acc acc acc acc Until Display Reads Pxx Pcco acc #### acc Until Display Reads Pxx Pcco acc #### Flashing Decimal (value between 0 and 5) #### Description Accesses changeable Accesses parameter no. Accesses Displays current Displays current Accepts and saves new parameter		

Fine Settings Set Proportional Band

Proportional band is used for setting the reaction sensitivity of the regulator. The displayed value is X 10 mbar and has a range between 50 (0.5 bar) and 250 (2.5 bar).

Step	1	2	3	4	5	
Press	acc 3-6 seconds	or	acc	or	acc	
Until Display Reads	P××	P 12	Flashing Decimal	Flashing Decimal (value between 50 and 250)	# # #	P 13
Description	Accesses changeable parameters.	Accesses parameter no. 12.	Displays current parameter value. Incremental value is: x 10 mbar	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next paramete

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Regulator Products



ot Douband	•						
	inimum limit of acc en 4 (40 mbar) and	uracy at which the i d 40 (400 mbar).	regulator is set for r	normal operation. T	he displayed value	is X 10 mbar and	Genera
Parameter Nu	umber 13 – Se	t Deadband (P	20 Must be Se	et to 0)			G
Step	1	2	3	4	5		
Press	acc 3-6 seconds	or	acc	or	acc		Dial
Until Display Reads	P××	P 13	Flashing Decimal	Flashing Decimal (value between 4 and 40)	# # # Flashing	P 14	Pilot
Description	Accesses changeable parameters.	Accesses parameter no. 13.	Displays current parameter value. Incremental value is x 10 mbar	Edits parameter.	Accepts and saves new parameter setting.	Sequences to next parameter.	Proportional
Proportional E	Effect				·		Propo

Proportional Effect

Parameter Number 21 – Set Proportional Effect (P20 Must be Set to 0)							ш
Step	1	2	3	4	5		c
Press	acc 3-6 seconds	or	acc	or	acc		Precision
Until Display Reads	P××	P2	Flashing Decimal	Flashing Decimal (value between 5 and 100)	# # #	655	Water
Description	Accesses changeable parameters.	Accesses parameter no. 21.	Displays current parameter value.	Edits parameter. 5 = fastest regulation 100 = slowest regulation.	Accepts and saves new parameter setting.	Sequences to next parameter.	Κ
Parameter Nu	umber 39 – Dis	splays Current	Software Ver	sion	1		Regulator Products
Step	1	2	3				Regu
_]			

Parameter Number 39 – Displays Current Software Version

Step	1	2	3
Press	acc 3-6 seconds	or	acc
Until Display Reads	Pxx	рзq	# # # Flashing Decimal
Description	Accesses changeable parameters.	Accesses parameter no. 39.	Displays current parameter value. XXX = current software version

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Catalog 0700P-8 Proportional Regulators

P31P

General

Dial

Pilot

Proportional

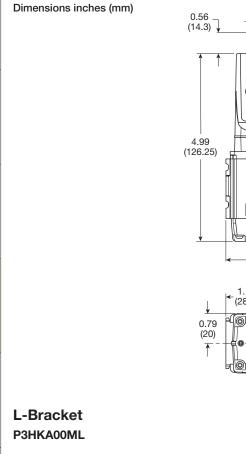
Precision

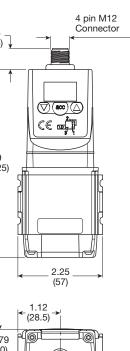
Water

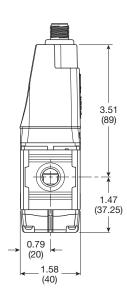
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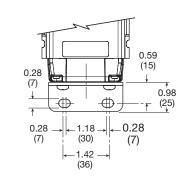
Regulator Products

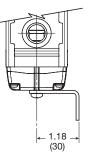
Air Preparation Products **Regulator Products**

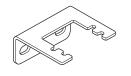


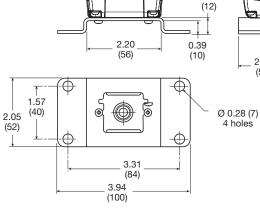


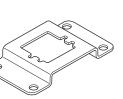












Cables

• • • • • • • • • • • • • • • • • • • •	
Description	Part Number
2 mtr. cable with moulded straight M12x1 connector	CB-M12-4P-2M

Most popular.



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0.47

1.02

(26)

2.05 (52)

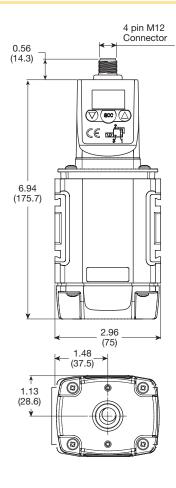
Foot Bracket P3HKA00MC

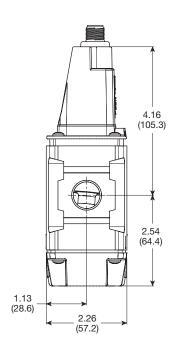
Catalog 0700P-8 Proportional Regulators

Air Preparation Products **Regulator Products**

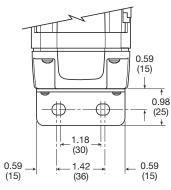


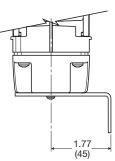
Dimensions inches (mm)





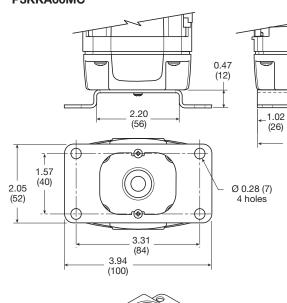
L-Bracket P3KKA00ML





ot Bracket

Foot Bracket P3KKA00MC



Cables

Description	Part Number
2 mtr. cable with moulded straight M12x1 connector	CB-M12-4P-2M

Most popular.



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2.05

(52)

General

Dial

Pilot

Proportional

Precision

Water

PAR[™]-15 Programmable Air Regulating Valve PAR[™]-15 is a unique 3-Way, programmable, air regulating valve that functions as a precise, high-flow, multi-purpose regulator. Signals from a computer, programmable controllers or from simple electrical switches, fed to the valve's four solenoids. control the division of a single inlet pressure into any one of fifteen equally spaced output pressures. The valve's response is instant and repeatable, reducing the need for expensive feedback controls. It goes far beyond the capabilities of conventional controls by providing a limitless range of application possibilities **No Enclosure** including cylinder pressure/stroke control, clamping, retracting, approach, flow, and impact. PAR[™]-15 eliminates shock absorbers, increases tool life, saves air, and reduces workpiece damage. • Full flow capacity for direct air device operation.

- · Quick, full flow exhaust.
- Instantly repeatable response.
- Air saving design, close crossover, non-constant bleed.
- Wide range of discrete output pressures.
- Normally closed or normally open operators.
- · Compatible with computers and programmable controllers with digital solid state relay outputs.
- Meets NEMA 4 standard (6-Pin option only).

Life Expectancy

Normal multi-million cycle life expectancy of these valves is based on the use of properly filtered air at room temperature.





NEMA 4 Enclosure – 6-Pin Connector

Operating information

Pressure range:	150 ppig (1025 kDp)
Inlet (max)	150 psig (1035 kPa)
Output (min)	6 psig (41 kPa)
Temperature range (ambient)†:	32°F to 140°F (0°C to 60°C)
Voltage range:	+10% to –10% of rating
Flow capacity:	
Inlet to outlet	275 scfm (129.8 dm³/s, ANR)
Outlet to exhaust	225 scfm (106.2 dm ³ /s, ANR)
Output response:	20 milliseconds
Weight:	
Without enclosure	6.3 lb (2.9 kg)
With 6-pin & cord	8.0 lb (3.6 kg)

/!\ † Caution: If it is possible that the ambient temperature may fall below freezing, the media must be moisture free to prevent internal damage or unpredictable behavior.

Solenoid Operated - Normally Closed - Internal Pilot*

Port Size			No	NEMA 4 Enclosure	- 6-Pin Connector
Body	Pilot	Voltage/Cycle	Enclosure	Quadrant 2 †	Quadrant 4 †
1/2"	1/8"	24V/60Hz	W21540172B	W21542172B	W21544172B
1/2"	1/8"	12VDC	W21540175B	W21542175B	W21544175B
1/2"	1/8"	24VDC	W21540179B	W21542179B	W21544179B
1/2"	1/8"	110/120V / 50/60Hz	W21540183B	W21542183B	W21544183B

* Normally open and external pilot options also available.

⁺ Theoretically Quadrant 1 is defined as the 6-Pin connector on the same face with the inlet port. Looking from the top down and rotating the enclosure clockwise 90° you get Quadrant 2 or 270° for Quadrant 4.

Material Specifications

Aluminum
Aluminum
Acetal
Aluminum
Aluminum
Fluorocarbon
Nitrile
Stainless steel
01

Lubrication

Although the valve does not require lubrication for a normal service life, use of SAE 10 mineral base oil is recommended to extend component life. This should be supplied using a 1/2 inch full flow lubricator located upstream of the valve inlet port.

CAUTION

DO NOT USE SYNTHETIC, RECONSTITUTED, OR OILS WITH AN ALCOHOL CONTENT.

Wiring

Follow all national and local electrical codes.

Most popular.



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Regulator Products

Genera

Dial

P

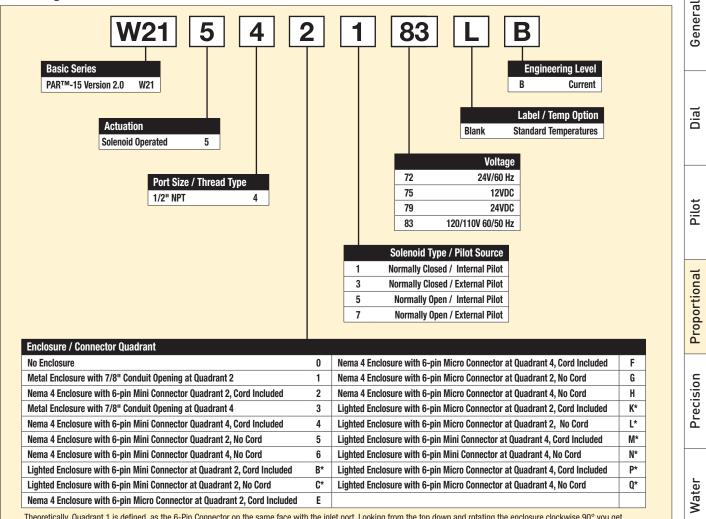
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Proportional

Precision

Air Preparation Products **Regulator Products**

Ordering Information:



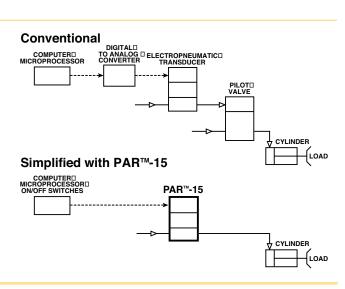
Theoretically, Quadrant 1 is defined as the 6-Pin Connector on the same face with the inlet port. Looking from the top down and rotating the enclosure clockwise 90° you get Quadrant 2 or 270° for Quadrant 4.

* Available in 24VDC and 120VAC Only. Not NEMA 4 rated.

Electropneumatic System

A conventional system is usually composed by several electronic and pneumatic components as shown on the schematic. The cylinder which is moving a load is operated with a pilot valve which receives the instructions from an electropneumatic transducer. The transducer converts electronic signals to pneumatic signals. These electronic signals are usually of an analog type, but controllers/computer microprocessors send digital signals as outputs, therefore, a digital to analog signal converter is required.

The simplified schematic with the PARTM-15 is reduced to fewer components since the PARTM-15 takes the place of the digital to analog converter, the electropneumatic transducer, and the pilot valve. The benefits being fewer components, and less maintenance and downtime.

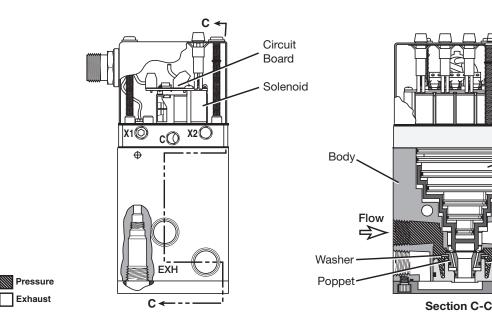




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Regulator Products



Application

Pneumatic systems operating under multiple pressures, and requiring almost instantaneous pressure changes are good application cases for the PAR[™]-15. Usually the more pressures needed for a particular operation, the easier it is to justify the valve, since it will take the place of several pneumatic regulators and selector valves.

Among the most common applications are brakes and clutches, painting, printing feeds and tension, robotics, and spot welding.

Other Applications:

- Air Chucks
- Fuel ControlHopper Control

Robot Gripper Control

Variable Pressure Processing

Valve Positioning

Variable Clamping

Torque Control

Wire Tensioning

- Air Cylinder Control
- Air Winches
- Blow Molding Control
- Contact Force Control
- Conveyor Control
- Die Cushioning
- Dynamic Braking

Operation

Four solenoids are controlled by on/off signals that selectively divide any input pressure into any one of 15 equally spaced pressures plus zero. See the truth table.

Divider

Piston

Spring

Poppet

Guide

Flow

⇒

Full flow exhaust permits instant reduction to any lower selected pressure or zero. High relief capacity quickly vents downstream overpressure. The output pressure will begin to change within 20 milliseconds after a change in the electrical input to one or more of the solenoids. However, the time which elapses until the output pressure reaches the new level will depend upon the volume of air, the size of the connection from the PAR[™]-15 valve and the magnitude of the pressure change.

A small regulator may be used to feed the external pilot port X1 on units with normally closed solenoid operators or X2 on units with normally open solenoid operators. The PAR[™]-15 valve will then divide this pressure independent of mainline supply pressure so long as the pilot regulator is set to a pressure below the mainline supply pressure. A regulated external supply will eliminate the effects of fluctuating mainline pressures. (NOTE: A regulator placed upstream of the inlet also eliminates the effects of fluctuating pressures).

The PAR[™]-15 is available with two types of output pressure regulation: increasing output and decreasing output. In the increasing output pressure regulation type, normally closed solenoid operators are used to divide the input pressure into 15 equal steps, ranging from 0 PSIG (all solenoid operators de-energized) to full line pressure (all solenoid operators energized). With the decreasing output pressure regulation type, normally open solenoid operators are used to divide the input pressure into 15 equal steps, but starting with full line pressure (all solenoid operators de-energized) and ending with 0 PSIG (all solenoid operators energized).





Water

Regulator Products

Genera

Dial

Pilot

Proportional

Precision

General

Dial

Pilot

Proportional

Precision

Truth Table

Normally Closed Valves / Solenoids	Normally Open Valves / Solenoids			
Binary Input * 8 4 2 1	Binary Input * 8 4 2 1	_ Proportion	PSIG Output@	PSIG Output@
Pin Number† 5 3 2 1	Pin Number† 5 3 2 1	of Inlet Pressure	75 PSIG Inlet ^{††}	90 PSIG Inlet
0000	1111	0	0	0
0001	1110	1/15	5	6
0010	1101	2/15	10	12
0011	1100	3/15	15	18
0100	1011	4/15	20	24
0101	1010	5/15	25	30
0110	1001	6/15	30	36
0111	1000	7/15	35	42
1000	0111	8/15	40	48
1001	0110	9/15	45	54
1010	0101	10/15	50	60
1011	0100	11/15	55	66
1100	0011	12/15	60	72
1101	0010	13/15	65	78
1110	0001	14/15	70	84
1111	0000	15/15	75	90

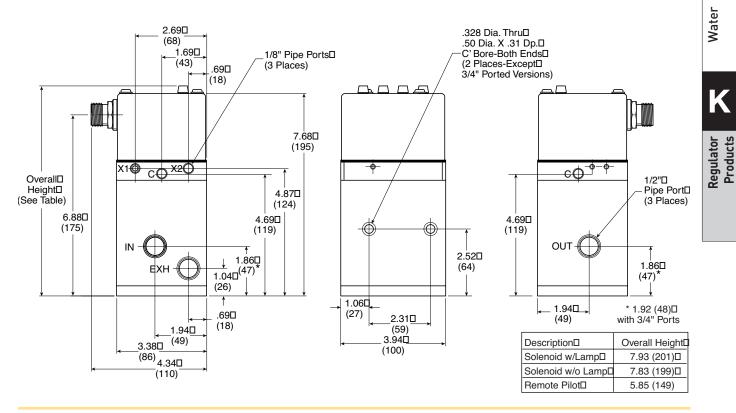
Table above illustrates available output pressures for inlet pressures of 75 PSIG and 90 PSIG. Inlet pressure may be any value between 15 and 150 PSIG. Output pressure increment will be 1/15 of inlet pressure.

* 0 = Voltage "OFF"

1 = Voltage "ON"

[†] Available only on units with 6-Pin connector.

⁺⁺ Shaded output pressures shown are theoretical and are below the minimum operating range of the valve and should not be used. Please refer to the Engineering Specifications for minimum output.





C

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Narrow Band Control

The PARTM-15 can also be used to provide a narrower band of output pressures with the lowest selected pressure greater than zero.

EXAMPLE:

Genera

Dial

Pilot

Proportional

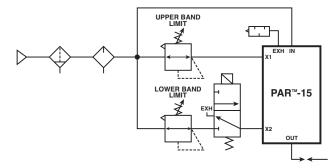
Precision

Water

Assume valve with normally closed solenoids. Customer desires to divide a range from 25 PSIG to 100 PSIG into 15 increments of 5 PSIG each. This is done by applying 100 PSIG to the external pilot supply port X1 and 25 PSIG to the pilot exhaust port X2.

Two 1/8 inch relieving regulators are required. The addition of one 3-Way normally closed solenoid operated valve allows the additional selection of 0 PSIG. These are connected as shown in the diagram. The relieving regulators set the upper and lower band limits. With a normally closed PAR[™]-15 valve, zero output pressure may be selected by simultaneously deenergizing the 3-Way valve and the PAR[™]-15 valve solenoids. With a normally open PAR[™]-15 valve, zero output pressure may be selected by simultaneously de-energizing the 3-Way valve and energizing the PAR[™]-15 valve solenoids.





Note: For valves with normally open solenoids, reverse the X1 and X2 connections.

Cascading

Two PAR[™]-15's can also be used in conjunction to provide 240 steps (versus 15 steps from one valve), therefore more output pressures. See diagram.

Connect the outlet port marked OUT of the valve upstream to the 1/8" port marked C of the valve downstream. A port/pipe reducer(s) must be used to accomplish this task. If desired, a pressure gauge can be installed between these two points. A gauge isolator should be used to protect the gauge from pulsating pressures.

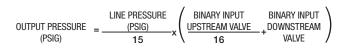
Connect the outlet port marked OUT of the valve downstream to the supply side of the system requiring multiple pressures. If desired, a pressure gauge can be installed downstream of the outlet port. A gauge isolator should be used to protect the gauge from pulsating pressures.

Air Preparation Products **Regulator Products**

DO NOT PLUG THE 1/8" PORTS MARKED C AND X2 ON THE VALVE UPSTREAM AND X2 ON THE VALVE DOWNSTREAM.

Operation of the valves is the same as mentioned previously under the Operation section. See Cascading Truth Table for the proper input signal to each solenoid, and the resulting proportion of inlet pressure for an output pressure.

A formula can be used to calculate the output pressure of the valve downstream.



Where:

LINE PRESSURE is the supply pressure to both valves and it must be equal.

BINARY INPUT UPSTREAM VALVE is the binary number, a number from 0 to 15 depending on which solenoids are energized (normally closed solenoids) or de-energized (normally open solenoids) on the valve upstream.

BINARY INPUT DOWNSTREAM VALVE is the binary number, a number from 0 to 15 depending on which solenoids are energized (normally closed solenoids) or de-energized (normally open solenoids) on the valve downstream.

EXAMPLE:

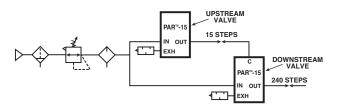
Assume the line pressure is 120 PSIG, the valve upstream has inputs 1 & 2 energized, and the valve downstream has inputs 1 & 8 energized. Also, assume normally closed solenoids. What is the output pressure of the valve downstream?

SOLUTION:

BINARY INPUT VALVE UPSTREAM = 1 + 2 = 3 BINARY INPUT VALVE DOWNSTREAM = 1 + 8 = 9

OUTPUT PRESSURE =
$$\frac{120}{15} \times \left(\frac{3}{16} + 9\right) = 8 \times 9.1875 = 73.5 \text{ PSIG}$$

Cascade Diagram





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Air Preparation Products Regulator Products

Truth Table

Iruth I	able								- Je
	Clo	mally osed noids	Op	nally ben noids					General
	Down- Step Valve	Up- stream Valve	Down- stream Valve	Up- stream Valve	Down- stream Valve	Up- stream Valve			
	Binary 8 4 2 1	/ Input* 8 4 2 1	Binar 8 4 2 1	y Input* 8 4 2 1	Proportion	Proportion	PSIG Output @	PSIG Output @	Dial
	Pin Nu 5 3 2 1	umber † 5 3 2 1	Pin N 5 3 2 1	umber † 5 3 2 1	of Inlet - Pressure	⊦ of Inlet Pressure	60 PSIG Inlet ^{††}	120 PSIG Inlet ⁺⁺	
0 1 2 3 4 5 6		0000 0001 0010 0011 0100 0101 0110	1111 1111 1111 1111 1111 1111 1111 1111	1111 110 1101 1100 1011 1010 1001		0 1/240 2/240 3/240 4/240 5/240 6/240	0.00 0.25 0.50 0.75 1.00 1.25 1.50	0.00 0.50 1.00 1.50 2.00 2.50 3.00	Pilot
7 8 9 10 11 12		0111 1000 1001 1010 1011 1100	$ \begin{array}{c} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ \end{array} $	1000 0111 0110 0101 0100 0011		7/240 8/240 9/240 10/240 11/240 12/240	1.75 2.00 2.25 2.50 2.75 3.00	3.50 4.00 4.50 5.00 5.50 6.00	Proportional
13 14 15 16	0000 0000 0000 0001	1101 1110 1111 0000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0	0010 0001 0000 1111	0 0 0 1/15	13/240 14/240 15/240 0	3.25 3.50 3.75 4.00	6.50 7.00 7.50 8.00	Precision
17 18 19 20	0001 0001 0001 0001	$\begin{array}{c} 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 1 & 1 \\ 0 & 1 & 0 & 0 \end{array}$	1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0	1110 1101 1100 1011	1/15 1/15 1/15 1/15	1/240 2/240 3/240 4/240	4.25 4.50 4.75 5.00	8.50 9.00 9.50 10.00	Prec
21 22	0001	0101	1110	1010	1/15 1/15	5/240 6/240	5.25 5.50	10.50 11.00	. <u>.</u>
22 212 213 214	0001 0000 0000 0000	0111 1000 1111 0000 0000	0010 0010 0010 0010 0010	1100 0111 1011 1010 1001	13/15 13/15 13/15 13/15 13/15	7/240 4/240 5/240 6/240	5.75 53.00 53.25 53.50	106.00 106.50 107.00	Water
215 216 217 218			0010 0010 0010 1111	1000 0111 0110 0101	13/15 13/15 13/15 13/15	7/240 8/240 9/240 10/240	53.75 54.00 54.25 54.50	107.50 108.00 108.50 109.00	K
219		0101	0001	1011		11/240 <u>12/240</u>	54.75 55.00	109.50	ator ucts
231 232 233 234 235	11110 1110 1110 1110 1110 1110	0110 0111 1000 1001 1010 1011	0001 0001 0001 0001 0001 0001	1010 1001 1000 0111 0110 0101	14/15 14/15 14/15 14/15 14/15 14/15	7/240 8/240 9/240 10/240 11/240	57.75 58.00 58.25 58.50 58.75 58.75	115.50 115.50 116.00 116.50 117.00 117.50	Regulator Products
236 237 238 239	1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0	1 1 0 0 1 1 0 1 1 1 1 0 1 1 1 0 1 1 1 1	0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1	$\begin{array}{c} 0 \ 1 \ 0 \ 0 \\ 0 \ 0 \ 1 \ 0 \\ 0 \ 0 \ 0 \ 1 \\ 0 \ 0 \ 0 \ 0 \end{array}$	14/15 14/15 14/15 14/15	12/240 13/240 14/240 15/240	59.00 59.25 59.50 59.75	118.00 118.50 119.00 119.50	
240	1111	0000	0000	1111	15/15	0	60.00	120.00	

Table above illustrates available output pressures for inlet pressures of 75 PSIG and 90 PSIG. Inlet pressure may be any value between 15 and 150 PSIG. Output Pressure increment will be 1/15 of inlet pressure.

* 0 = Voltage "OFF" 1 = Voltage "ON"

Available only on units with 6-Pin connector.

†† Shaded output pressures shown are theoretical and are below the minimum operating range of the valve and should not be used. Please refer to the Engineering Specifications for minimum output.

Note: Full table appears in instruction sheet enclosed with the product.



Solenoid Kits & Electrical Data

Class F Solenoids

Genera

Dia

Pilot

Proportional

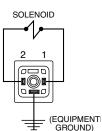
Precision

Voltage / Cycles	Solenoid Type*	Power Consumption (watts)	Holding Current (AMPS)	Part Number
12VDC	NC	1.2W	0.1	PS2982B45P
24VDC	NC	1.2W	0.05	PS2982B49P
120V/60Hz	NC	1.6VA	0.013	PS2982B53P
24V/60Hz	NC	1.6VA	0.066	PS2982B42P
24V/60Hz	NO	2.4VA	0.1	PS3202B42P
12VDC	NO	1.8W	0.15	PS3202B45P
24VDC	NO	1.8W	0.075	PS3202B49P
120V/60Hz	NO	2.4VA	0.02	PS3202B53P

* NC = Normally Closed NO = Normally Open

Units with No Enclosure

Connect input and common signals to each one of the solenoids marked with the binary inputs 1, 2, 4 and 8, using the 3-Pin female connector kits shown in the catalog. Follow the installation instructions included with the 3-Pin female connector kits for the proper installation.



If you elect not to use the 3-Pin female connector kits, you may use three female spade connectors per solenoid and connect the wires as shown on the figure.

Units with Enclosure and Without 6-Pin Receptacle

Connect input and common signals to the terminal block on the circuit board labelled TB1. Connect each solenoid input (1, 2, 4, & 8) to the respective label on the circuit board. Connect each common to the input labelled C on the circuit board.

Units with Enclosure and 6-Pin Micro Receptacle

These units use the following brand names for 6-Pin micro connectors:

Brand name	Receptacle	Connector w/ 6 foot cord
Brad Harrison	7R6006A19A120	706000D02F060
Joy	5000127-41	5000127-2

Connection is made as shown in the chart below.

6	Pin	Wire color	Function
	1	Red-White	Input 1
	2	Red	Input 2
2 (too) +	3	Green	Equipment Ground
3	4	Red-Yellow	Common
	5	Red-Black	Input 8
Micro	6	Red-Blue	Input 4

Air Preparation Products **Regulator Products**

Units with Enclosure and 6-Pin Mini Connector

These units use either one of the following brand names for 6-Pin mini connectors:

Brand Name	Receptacle	Connector w/ 6 Foot Cord
Brad Harrison	42605	42602
Joy	X8987-2	X8987-4

Connection is made as shown in the chart below.

6	Pin	Wire color	Function
	1	Orange	Input 1
$\begin{pmatrix} 0 & - 0 \end{pmatrix}$	2	Blue	Input 2
	3	Black	Input 4
2 4	4	White	Common
3 3	5	Red	Input 8
Mini	6	Green	Equipment Ground

Units with Enclosure, 6-Pin Connector and Indicator Lamps

Each indicator lamp signals when the corresponding solenoid operator is actuated. Lamps that fail to light may need to be replaced or a check made to see if a connection has become loose.

Follow the service kit instructions included with the repair kits for proper installation of replacement lamps.

For units with DC solenoids and indicator lamps red wire is (+) positive white wire is (-) negative.

Caution: DC solenoids with indicator lamps are polarity sensitive. Observe polarities indicated above.

Available Lamps

Description	Part number
Lamp (120/60AC) with spring clip	K352428B
Lamp (24VDC) with spring clip	K352429B

15mm 3-Pin DIN 43650C

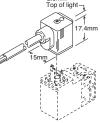
Description	Connector	Connector with 6' (2m) Cord
Unlighted	PS2932BP	PS2932JBP
Light – 12VAC or DC	PS294675BP	PS2946J75BP*
Light – 24VAC or DC	PS294679BP	PS2946J79BP*
Light – 110/120VAC	PS294683BP	PS2946J83BP*

* LED with surge suppression.

Note: Max ø6.5mm cable size required for connector w/o 6' (2m) cord.

Engineering Data:

Conductors: 2 Poles Plus Ground Cable Range (Connector Only): 4 to 6mm (0.16 to 0.24 Inch) Contact Spacing: 8mm



Service Kit

Piston, poppet assembly, all rubber seals and gaskets

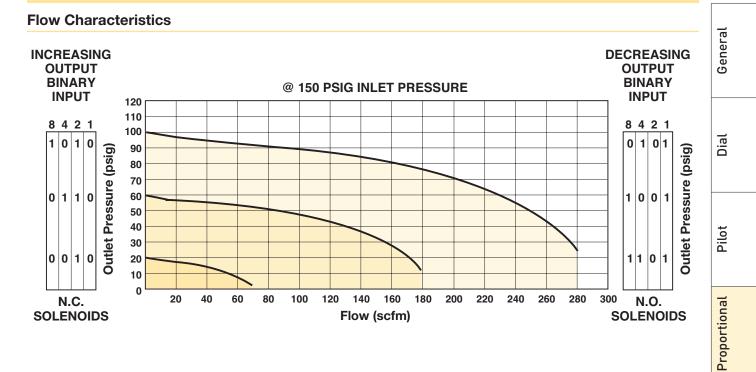
K352413B

Parker



K80

Regulator Products



Typical Time Response



Actual test results show rapid response on a robot welding operation at a major U.S. automotive manufacturer.

NOTE: Although graph illustrates pressure dropping to 0 PSIG at the end of each cycle, the PARTM-15 valve can shift down to intermediate pressure steps, i.e. from 75 PSIG to 45 PSIG, without returning to 0 PSIG first.





Lucifer® EPP4 1/4", 1/2" & 1/2" HP



Part number	Pipe	Max inlet pressure bar (PSIG)	Pressure range bar (PSIG)	Control signal
P4C <u>N</u> 2001C001	1/4 NPT	1 to 12 (15 to 174)	0 to 10 (0 to 145)	0 to 10 V **
P4C <u>N</u> 4001C001	1/2 NPT	1 to 12 (15 to 174)	0 to 10 (0 to 145)	0 to 10 V **
P4C <u>G</u> 4201D003*†	1/2 BSPP	1 to 21 (15 to 305)	0 to 20 (0 to 290)	0 to 10 V **

Notes: For thread type NPT use <u>N</u>, for BSPP use <u>G</u>.

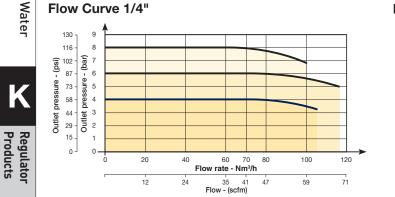
* HP (High Pressure).

** 4-20mA available via Calys software.

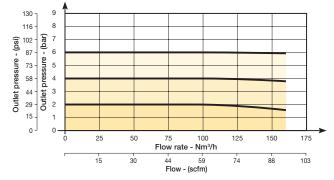
† Only available in BSPP.

For other configurations not listed please consult factory. (Example: ATEX Series EX: II 3 D/G, O2 compatible, External Pilot, etc.)

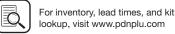
Flow Curves



Flow Curve 1/2" HP



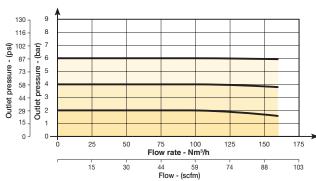
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K82

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





Water

Air Preparation Products **Regulator Products**

Lucifer[®] EPP4 1/4" & 1/2"

Technical Data

Technical Data	EPP4 1/4"	EPP4 1/2"	General
Fluids:	Lubricated or non lubr	ricated air and neutral gases - iltration: 40 µm or better	ğ
Temperature range:	Ambient: 0°C t	o 50°C (32°F to 122°F) 50°C (32°F to 122°F)	_
Inlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 12 bar (14.5 to 174 PSIG)	1 to 12 bar (14.5 to 174 PSIG)	Dial
Outlet pressure range:	0.05 to 10 ba	ar (.725 to 145 PSIG)	
Hysteresis:	± 50 mbar (.72	5 PSIG) (factory set up)	
Air consumption at constant control signal:		0	Pilot
Supply voltage:	24 V DC ± 1	5 % (Max. ripple 1 V)	Ē
Power consumption:	Max. 2.8 W with 24 V DC and constant changes of the control signal < 1.5 W		al
Control signal:	Ana	Analog 0 - 10 V Analog 4 - 20 mA field convertible	
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA Standard for 0 - 10 bar; Adjustable	Digital 0 - 24 V for alarm features: Adjustable pressure error (+/-) Adjustable delay ON Adjustable delay OFF Adjustable logic (+/-)	Precision Proportional
Max. flow:	70 m³/h (41 SCFM)	150 m³/h (88 SCFM)	ecis
Indicative response time:	With a volume of 330 cm ³ (20.14 in ³) at the outlet of the regulator		– Ľ
Filling 2 to 4 bar (29 to 58 PSI): Filling 2 to 8 bar (29 to 116 PSI): Emptying 4 to 2 bar (29 to 116 PSI): Emptying 8 to 2 bar (29 to 116 PSI):	50 msec 100 msec 70 msec 130 msec	60 msec 120 msec 90 msec 190 msec	
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar (atmospheric pressure). In case of voltage supply failure, the regulated pressure will be kept constant.		Water
Electrical connection:	M12 - 8 pin; male conne	ector power supply/control signal connector communication	_ K
Life expectancy:	> 50 million chang	ges of control signal steps	_
Mounting position:	Indifferent (recommended po	sition: upright; electronic part on top)	Regulator Broducts
Resistance to vibrations:	30 g ii	n all directions	gula
Degree of protection:		IP65	– Re
Assembly:	Si	licone free	_
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001		
Installation and setting instructions:	See Bulletin 408128, 408134 a	nd appendix supplied with the product.	

Note: Parker reserves the right to change specifications without notification.

Parke



Lucifer[®] EPP4 1/2" HP

Technical Data

General

Dial

Pilot

Proportional

Precision

Water

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Regulator Products

	EPP4 1/2" HP	
Fluids:	Lubricated or non lubricated air and neutral gases - Recommended filtration: 50 μm	
Temperature range:	Ambient: 0°C to 50°C (32°F to 122°F) Fluid: 0°C to 50°C (32°F to 122°F)	
nlet pressure range: The inlet pressure must always be at least 1 bar above the regulated pressure.	1 to 21 bar (14.5 to 305 PSIG)	
Outlet pressure range:	0.05 to 20 bar (.73 to 290 PSIG)	
Hysteresis:	\leq 100 mbar (1.45 PSIG) if P inlet \leq 10 bar (145 PSIG) \leq 200 mbar (2.90 PSIG) if P inlet $>$ 10 bar (145 PSIG)	
Air consumption at constant control signal:	0	
Supply voltage:	24V DC ± 15%	
Power consumption:	Max. 6 W with 24 V DC and constant changes of the control signal < 2 W without change of control signal	
Control signal:	Analog 0 - 10 V Analog 4 - 20 mA field convertible	
Outlet sensor signal:	Analog 0 - 10 V Standard for 0 - 10 bar; Adjustable Analog 4 - 20 mA	
	Standard for 0 - 10 bar; Adjustable	
Max. flow:	150 m³/h (88 SCFM)	
Indicative response time:	With a volume of 330 cm ³ (20.14 in ³) at the outlet of the regulator	
Filling 2 to 8 bar (29 to 116 PSI): Emptying 8 to 2 bar (116 to 29 PSI):	120 msec 190 msec	
Safety position:	In case of control signal failure or if it is less than 50 mV, the regulated pressure drops automatically to 0 bar atmospheric pressure (for pressure ranges from 0-10 bar, 100 mV for pressure range over 10 bar). In case of voltage supply failure, the regulated pressure will be kept constant.	
Electrical connection:	M12 - 8 pin; male connector power supply/control signal M12 - 5 pin; male connector communication	
ife expectancy:	> 20 Million changes of control signal steps	
Mounting position:	Indifferent (recommended position: upright; electronic part on top)	
Resistance to vibrations:	30 g in all directions	
Degree of protection:	IP65	
Assembly:	Silicone free	
Electromagnetic compatibility: In accordance with:	EN 61000-6-1: 2001 EN 61000-6-2: 2001 EN 61000-6-3: 2001 + A11 2004 edition (01/07/07) EN 61000-6-4: 2001	
Installation and setting instructions:	See Bulletin 408193 and appendix supplied with the product.	

Note: Parker reserves the right to change specifications without notification.

-Parker

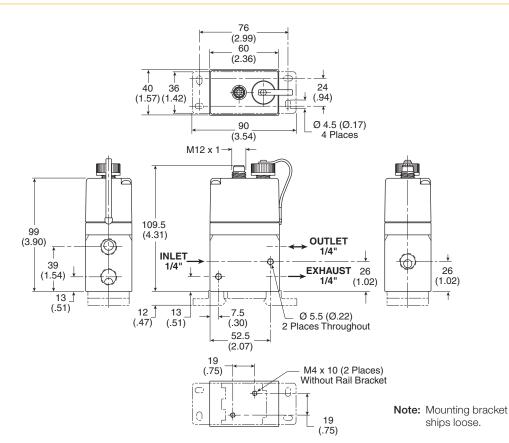


Air Preparation Products **Regulator Products**

Lucifer® EPP4 1/4" & 1/2"

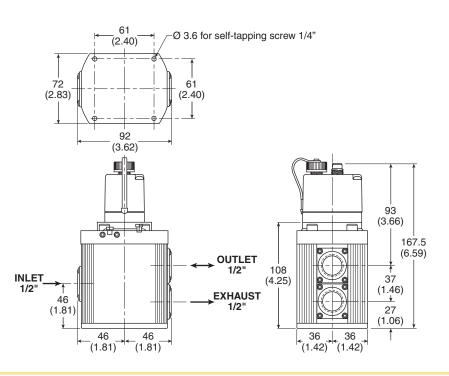
Dimensions EPP4 1/4"





Dimensions EPP4 1/2"







Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics Regulator Products

General

Dial

Pilot

Lucifer® EPP4 1/2" HP

Dimensions EPP4 1/2" HP



General

Dial

Pilot

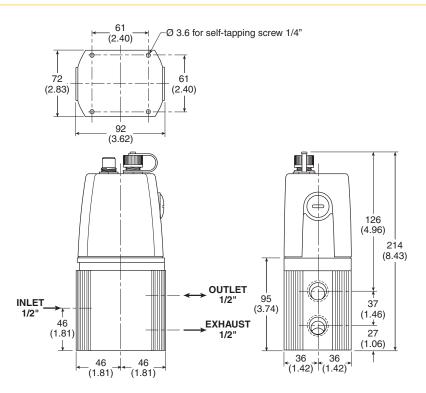
Proportional

Precision

Water

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Regulator Products





Air Preparation Products Regulator Products

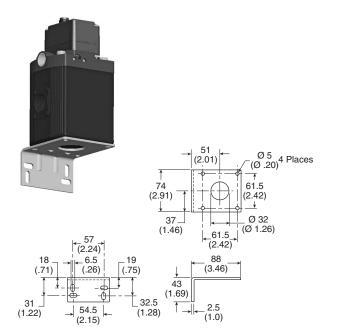
Lucifer[®] EPP4 Accessories

Mounting Brackets for EPP4 1/4"



Note: Mounting bracket comes standard with all EPP4 1/4" units, and is shipped loose.

Mounting Brackets for EPP4 1/2"



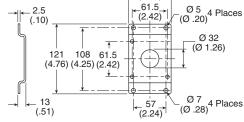
L Bracket

Part Number 491367

C



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____74 (2.91)

Foot Bracket

Part Number 491366

General

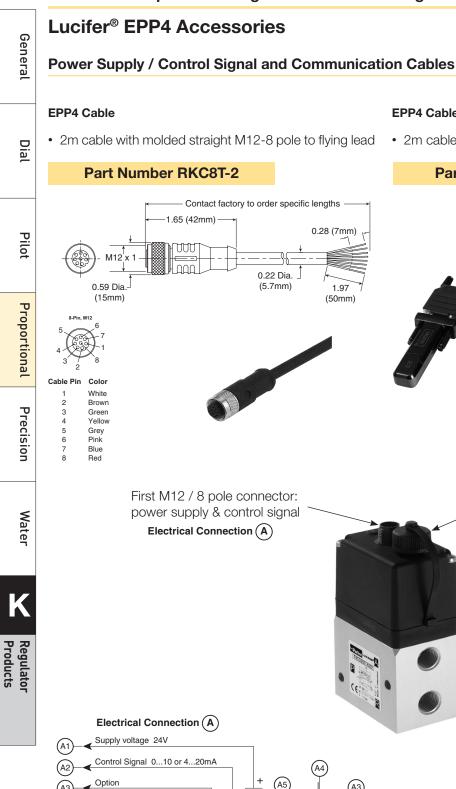
Dial

Water



For inventory, lead times, and kit lookup, visit www.pdnplu.com

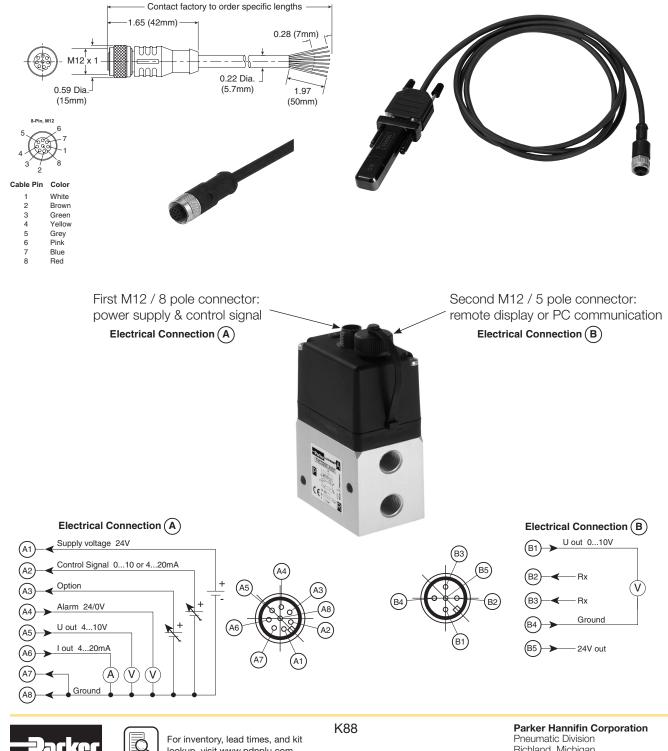
K87



EPP4 Cable

• 2m cable with molded straight M12-5 pole to USB

Part Number 496449



lookup, visit www.pdnplu.com

Richland, Michigan www.parker.com/pneumatics

Air Preparation Products Regulator Products

Lucifer[®] EPP4 Accessories calys Software

Calys is developed to configure all the parameters of the EPP4. A specific cable is needed for the communication between the EPP4 and a PC.

To download free Calys software click on

www.parker.com/fcde/support

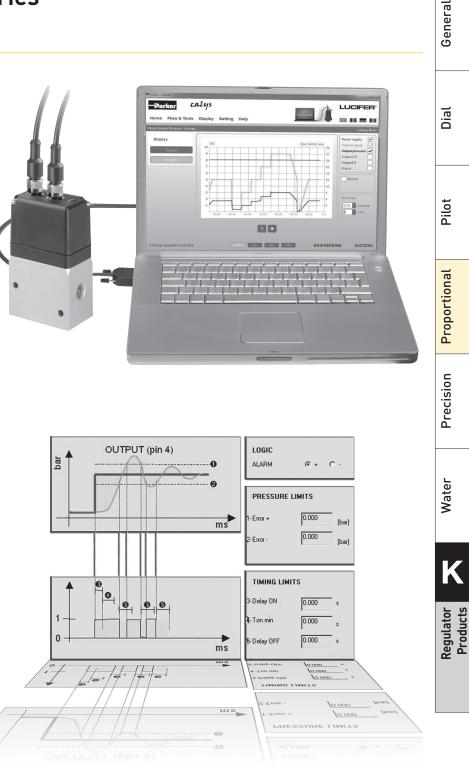
Calys offers many capabilities:

- Live monitoring (control signal, regulated pressure, supply voltage,...)
- Recording of the main parameters (control signal, regulated pressure, supply voltage,...) in an Excel file
- Free calibration for the inputs and outputs
- Adjustable alarm (positive-negative, pressure limits, delays)
- Configuration files are easy to duplicate
- · Complete and interactive help file
- Data in 4 different pressure units ۰
- Menus in 4 languages (English, German, French and Italian)



Specific communication cable with M12, 5-pole to USB connection

Part Number 496449







For inventory, lead times, and kit lookup, visit www.pdnplu.com

K89

P3RA302 High Precision Regulators

The P3RA302 Regulator is designed for applications that require high capacity and accurate process control in a small package. A poppet valve which is balanced by utilizing a convoluted diaphragm, insures a constant output pressure even during wide supply pressure variations. Stability of regulated pressure is maintained under varying flow conditions through the use of an aspirator tube which adjusts the air supply in accordance with the flow velocity.

- Control sensitivity of .250" (.010 psig) (.64 cm) water column variation allows use in precision applications
- A compensating diaphragm lets the regulator remain unaffected by supply pressure changes
- An aspirator tube compensates downstream pressure droop under flow conditions
- A separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing
- Unit construction lets you service the regulator without removing it from the line
- 1/4" port (NPT)



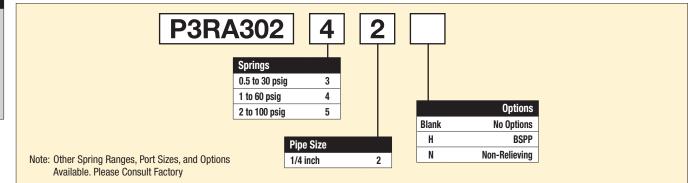
Port Size	Description	Part Number
1/4"	0.5 to 30 psig	P3RA30232
1/4"	1 to 60 psig	P3RA30242
1/4"	2 to 100 psig	P3RA30252



Operating information

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Ordering Information:



Pilot

Genera

Water

Regulator Products



K90

Catalog 0700P-8 Compact High Precision Regulator

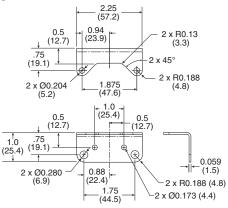
Material Specifications

Body and housing	Aluminum
Diaphragms	Nitrile on dacron
Trim	Brass

Repair and Service Kits

Nitrile, standard - 1/2 to 30, 1 to 60, & 2 to 100 psig	PS16116-13
Nitrile, non-relieving - 1/2 to 30, 1 to 60, & 2 to 100 psig	PS16116-14
Tamper Resistant Kit	PS12163
Mounting Bracket Kit	PS21667-1

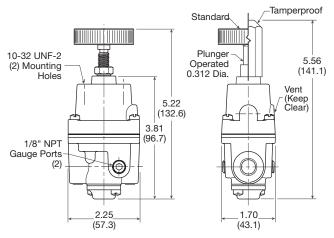
Mounting bracket



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.



Inches (mm)

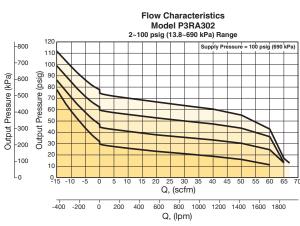


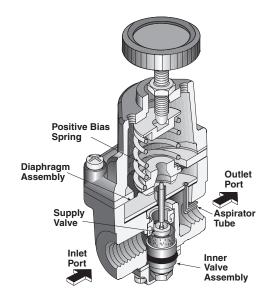
K91

Air Preparation Products Regulator Products

Flow Charts

P3RA302 1/4" Regulator





Operating Principles

The P3RA302 Regulator uses the force balance principal to control the movement of the valve assembly which in turn controls the output pressure. When the regulator is adjusted for a specific set point, the downward force of the Positive Bias Spring causes the Diaphragm Assembly to move downward. The Supply Valve opens and allows air to pass to the Outlet Port. As the set point is reached, the downward force exerted by the Positive Bias spring is balanced by the upward force of the downstream pressure acting on the bottom of the Diaphragm Assembly. The resultant force moves the supply Valve upward to reduce the flow of air to the Outlet Port.

Outlet pressure is maintained as a result of balance between forces acting on the top and bottom of the Diaphragm Assembly.

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

Regulator Products

K

Water

General

Dial

Pilot

P3RA102 High Precision Regulators

(Revised 03-13-20)

The P3RA102 Regulator is designed for applications that require high capacity and accurate process control. A poppet valve which is balanced by utilizing a rolling diaphragm, insures a constant output pressure even during wide supply pressure variations. Stability of regulated pressure is maintained under varying flow conditions through the use of an aspirator tube which adjusts the air supply in accordance with the flow velocity.

- Control sensitivity of .125" (.005 psig) (.32 cm) water column allows use in precision processes
- Pressure balanced supply valve prevents supply pressure changes from affecting the setpoint
- Optional check valve permits dumping of downstream pressure when supply is opened to atmosphere
- Separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing
- An aspirator tube compensates downstream pressure droop under flow conditions



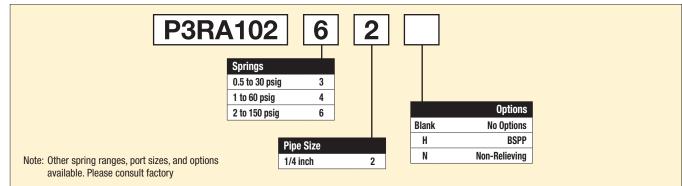
Port Size	Description	Part Number
1/4"	0.5 to 30 psig	P3RA10232
1/4"	1 to 60 psig	P3RA10242
1/4"	2 to 150 psig	P3RA10262



Operating information

Supply pressure:	500 psig (35 bar), (3500 kPa) max
Ambient temperature:	-40°F to 200°F (-40°C to 93°C)
Sensitivity:	.125" (.005 psig) (.32 cm) water column
Flow capacity:	40 scfm (68 m³/HR) @ 100 psig (7.0 bar), (700 kPa) supply and 20 psig (1.5 bar), (150 kPa) setpoint
Exhaust capacity:	5.5 scfm (9.35 m3/HR) where downstream pressure is 5 psig, (.35 bar), (35 kPa) above 20 psig (1.5 bar), (150 kPa) setpoint
Supply pressure effect:	Less than 0.1 psig (.007 bar), (.7 kPa) for 100 psig, (7.0 bar), (700 kPa) change in supply pressure
Hazardous locations:	Acceptable for use in zones 1 and 2 for gas atmosphere: Groups IIA and IIB and zones 21 and 22 for dust atmospheres

Ordering Information:



Most popular.



C

Water

Regulator Products

General

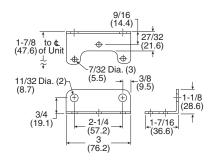
waterial Specifications	
Body and housing	Aluminum
Diaphragms	Buna N on dacron (standard unit only)
Trim	zinc plated steel, brass

Repair and Service Kits

Material Specifications

0 to 200 psig, relieving	PS12125-1
0 to 200 psig, non-relieving	PS12125-4
Tamper resistant kit	PS12165
Mounting bracket kit, zinc plated steel	PS09921

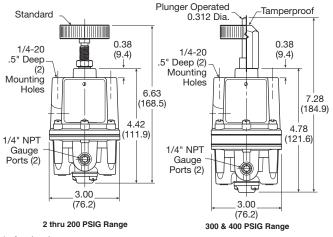
Mounting bracket



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.

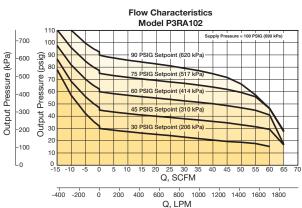


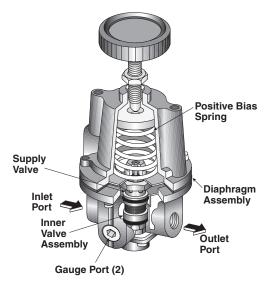
Inches (mm)

Air Preparation Products **Regulator Products**

Flow Charts

P3RA102 1/4" Regulator





Operating Principles

The P3RA102 Series regulator use the force balance principal to control the movement of the Valve Assembly that controls the output pressure. When the regulator is adjusted for a specific set point, the downward force of the Positive Bias Spring moves the Diaphragm Assembly downward. The Supply Valve opens and allows air to pass to the Outlet Port. As the set point is reached, the downward force exerted by the Positive Bias Spring is balanced by the force of the downstream pressure that acts on the Diaphragm Assembly. The resultant force moves the Supply Valve upward to reduce the flow of air to the Outlet Port.

Outlet pressure is maintained as a result of balance between forces acting on the top and bottom of the Diaphragm Assembly.

For inventory, lead times, and kit lookup, visit www.pdnplu.com

K93

Regulator Products

General

Dial

Pilot

Proportional

Precision

P3RA102BP High Precision Relief Valves

The P3RA102BP is a high capacity relief valve that relieves excess pressure in a pneumatic system.

The P3RA102BP provides greater accuracy than standard relief valves over a narrow pressure range. The P3RA102BP is an excellent choice for a wide range of precision applications.

- Control sensitivity of .125" (.005 psig) (.32 cm) water column allows use in precision applications
- A separate control chamber and Aspirator Tube isolate the diaphragm from the main flow to eliminate hunting and buzzing
- Unit construction lets you service without removing it from the line
- Mounting bracket is available



Port Size	Description	Part Number
1/4"	0.5 to 30 psig	P3RA10232BP
1/4"	1 to 60 psig	P3RA10242BP
1/4"	2 to 150 psig	P3RA10262BP



Operating information

Setpoint range 2 to 200 psig (0.15 to (15 to 1400 kPa)	14 bar)	System pressure (maximum) 300 psig (20.7 bar), (2100 kPa) max
300 to 400 psig (21 to (2100 to 2800 kPa)	o 28 bar)	500 psig (35 bar), (3500 kPa) max
Ambient temperature:	-40°F to 20	0°F (-40°C to 93°C)
Sensitivity:	.125" (.005	psig) (.32 cm) water column
Flow capacity:		8 m3/HR) @ 100 psig, 00 kPa) system pressure

Ordering Information:

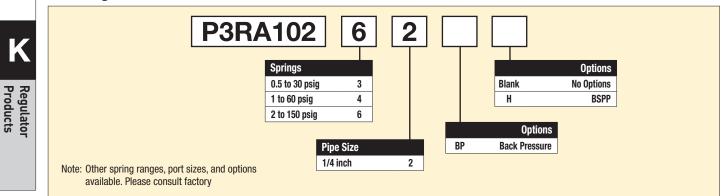
General

Dial

Pilot

Proportional

Precision







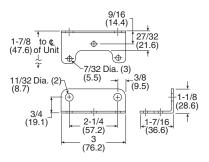
Material 3	Specifications
------------	----------------

Body and housing	Aluminum
Trim	Zinc plated steel, brass
Nozzle	Nitrile on dacron

Repair and Service Kits

0 to 200 psig, standard	PS12127-1
Tamper resistant kit	PS12165
Mounting bracket kit, zinc plated steel	PS09921

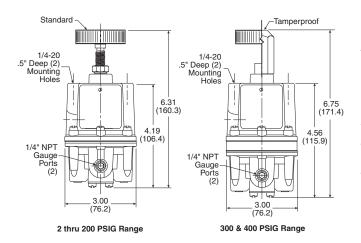
Mounting bracket



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

CAUTION:

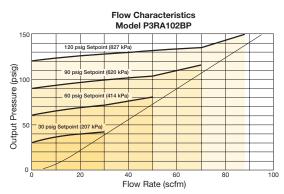
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

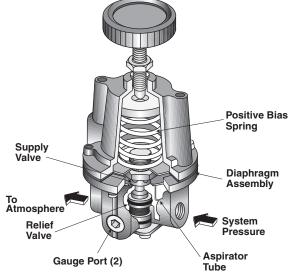


Air Preparation Products **Regulator Products**

Flow Charts

P3RA102BP 1/4" Regulator





Operating Principles

The P3RA102BP Regulator uses the force balance principle to open the Relief Valve and vent system pressure when the set point is exceeded.

Downstream pressure is transmitted through the Aspirator Tube to the bottom of the Diaphragm Assembly. When you adjust the range screw for a specific set point, the Positive Bias Spring compresses and exerts a force on the top of the Diaphragm Assembly. As long as the pressure acting on the bottom of the Diaphragm Assembly produces a force less than the spring force acting on the top of the Diaphragm Assembly, the Relief Valve remains closed. When system pressure increases, the force on the bottom of the Diaphragm Assembly increases until it reaches the set point. When system pressure increases beyond the set point, the assembly moves upward, lifting the Relief Valve from its seat and vents the downstream air.

If downstream pressure decreases below the set point, the assembly moves downward closing the Relief Valve.

General

Dial



For inventory, lead times, and kit lookup, visit www.pdnplu.com

K95

Genera

Dial

Pilot

Proportional

Precision

Port

Size

1/4"

P3RA171 High Precision Vacuum Regulator

The P3RA171 is a high accuracy vacuum regulator that provides uniform vacuum regulation independent of vacuum supply changes and flow demand.

This unit has a diaphragm assembly with three springs to provide a more balanced loading of the diaphragm.

- Control sensitivity of .125" (.005 PSIG) (.32 cm) water column allows use in precision applications
- · Balanced supply valve minimizes effects of vacuum variation
- · Aspirator tube compensates for downstream pressure droop under flow conditions
- Separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing
- · Construction allows servicing without removing from the line



Part Number

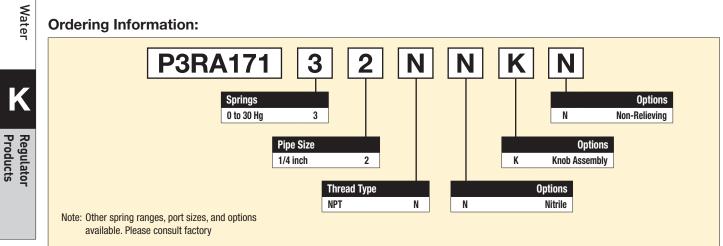
P3RA17132NNKN

Operating information	
Vacuum supply:	29.92 Hg (760 torr) max
Ambient temperature:	-40°F to 200°F (-40°C to 93°C)
Sensitivity:	.125" (.005 psig) (.32 cm) water column
Flow capacity:	3 scfm @ 650 torr supply, 250 torr setpoint
Vacuum supply effect:	Less than 1 torr for 100 torr (.04 Hg for 3.94 Hg) change in vacuum supply

Ordering Information:

Description

0 to 30 Hg







K96

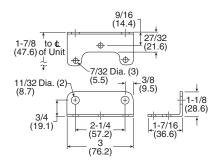
Material	Specifications
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Body and housing	Aluminum
Trim	Zinc plated steel, brass
Elastomers	Nitrile

Repair and Service Kits

Service kits – (includes diaphragm assy,	
valve assy, seat assy & gasket)	
0-30" Hg, nitrile, non-relieving	PS20966-9
Tamper resistant kit	PS20967-1
Mounting bracket	PS09921

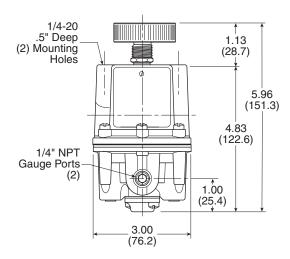
Mounting bracket



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

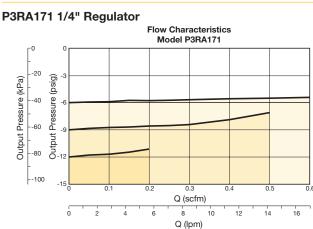
CAUTION:

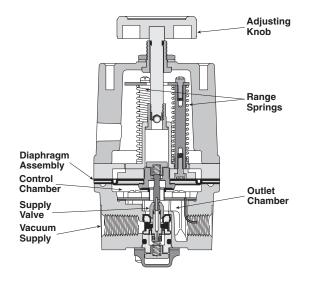
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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



Air Preparation Products **Regulator Products**

Flow Charts





Operating Principles

The Model P3RA171 Series vacuum regulator uses the force balance principle to control the movement of the Valve Assembly that controls output vacuum.

When the regulator is adjusted for a specific set point, the upward force of the Range Springs moves the Diaphragm Assembly upward. The Supply Valve opens and allows air to pass to the inlet port. As the set point is reached, the upward force exerted by the Range Springs is balanced by the force of the vacuum that pulls downward on the Diaphragm Assembly. The resultant force moves the Supply Valve downward to reduce the flow of air to the inlet port. Outlet vacuum is maintained as a result of balance between forces acting on the top and bottom of the Diaphragm Assembly.



Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics Water Precision Proportional

General

Dial

Pilot

K

Regulator Products

P3EA632 Precision Filter / Regulators

- The no-brass construction is well suited to harsh environments
- Internal and external epoxy finish for superior corrosion resistance
- Non-bleed design to reduce consumption
- Integral relief valve

General

Dial

Pilot

Proportional

Precision

- A gauge port provides convenient pressure gauge mounting
- The standard 5-micron filter minimizes internal contamination
- The filter dripwell contains a drain plug to easily drain trapped liquids

- Standard tapped exhaust
- Soft relief seat minimizes air loss



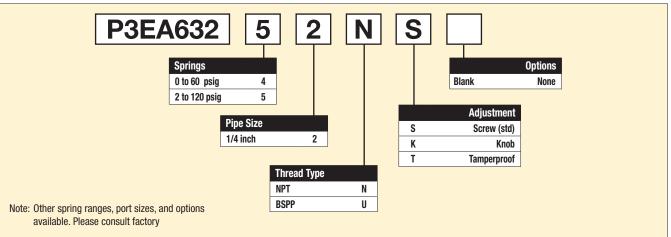
Port Size	Description	Part Number
1/4"	1 to 60 psig	P3EA63242NS
1/4"	2 to 120 psig	P3EA63252NS

Operating information			
Supply pressure:	250 psig (17.2 bar), (1700 kPa) max		
Temperature range:	-40°F to 160°F (-40°C to 71°C)		
Sensitivity:	1.0" (.036 psig) (2.54 cm) water column		
Flow capacity:	25 scfm (42.5 m³/HR) @ 100 psig (7 bar), (700 kPa) supply and 20 psig (1.5 bar), (150 kPa) setpoint		
Exhaust capacity:	0.8 scfm (1.36 m ³ /HR) where downstream pressure is 5 psig, (.35 bar) (35 kPa) above 20 psig (1.5 bar), (150 kPa) setpoint (0.8 SCFM for 120 # unit)		
Consumption:	Undetectable		
Supply pressure effect:	Less than 1.25 psig (.09 bar), (9 kPa) change for 100 psig (7.0 bar), (700 kPa) change in supply pressure (1.90 psig for 120 # unit)		

Water

K Regulator Products

Ordering Information:



Most popular.



C

K98

Material Specifications			
Body and housing	Epoxy coated Aluminum		
Trim	Stainless steel, nickel plated steel		
Elastomers	Nitrile		

Repair and Service Kits

1 to 60, 2 to 120 psig	PS19968-NR
Tamper resistant kit	PS12165

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

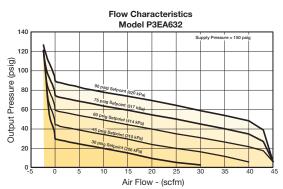
CAUTION:

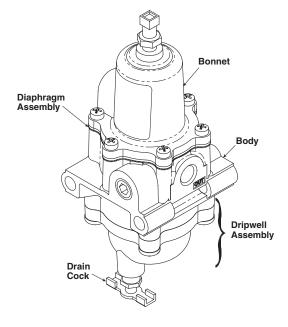
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

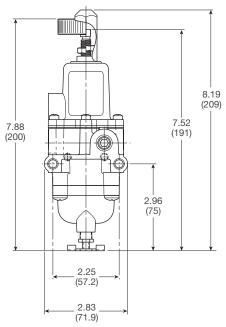
Air Preparation Products **Regulator Products**

Flow Charts

P3EA632 1/4" Filter / Regulator







Inches (mm)

Operating Principles

When you turn the Adjustment Screw to a specific setpoint, the Spring exerts a downward force against the top of the Diaphragm Assembly. This downward force opens the Supply Valve. Output pressure flows through the Outlet Port and the passage to the Control Chamber where it creates an upward force on the bottom of the Diaphragm Assembly.

When the setpoint is reached, the force of the Spring that acts on the top of the Diaphragm Assembly balances with the force of output pressure that acts on the bottom of the Diaphragm Assembly and closes the Supply Valve.

When the output pressure increases above the setpoint, the Diaphragm Assembly moves upward to close the Supply Valve and open the Exhaust Valve. Output pressure flows through the Exhaust Valve and out of the Exhaust Vent on the side of the unit until it reaches the setpoint.



For inventory, lead times, and kit lookup, visit www.pdnplu.com

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

General

Dial

Precision Proportional

Water

P3BA208 Precision Pneumatic Input Signal Amplifier

- The P3BA208 uses a pneumatic input signal to accurately control output pressure based on a predetermined ratio
- A balanced supply valve minimizes the effects of supply pressure variation
- An aspirator tube compensates downstream pressure droop under flowing conditions
- A separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing
- Unit construction allows servicing without removal
- Mounting bracket available

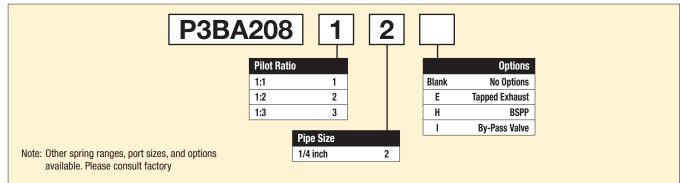
Port Size	Description	Part Number
1/4"	1:1 pilot ratio	P3BA20812
1/4"	1:2 pilot ratio	P3BA20822
1/4"	1:3 pilot ratio	P3BA20823



Operating information

eperanig menere			
Signal : Output	1:1	1:2	1:3
Output pressure, maximum:	150 psig (10 bar)	150 psig (10 bar)	150 psig (10 bar)
Supply pressure, maximum:	250 psig (17 bar)	250 psig (17 bar)	250 psig (17 bar)
Flow capacity – 100 psig (7 bar), supply 20 psig, (1.5 bar) output	45 scfm (76.5 m³/HR)	45 scfm (76.5 m³/HR)	45 scfm (76.5 m ³ /HR)
Exhaust capacity – Downstream pressure 5 psig (0.35 bar) above 20 psig (1.5 bar) setpoint	11 scfm (18.7 m³/HR)	11 scfm (18.7 m³/HR)	11 scfm (18.7 m³/HR)
Sensitivity, water column:	0.250" (0.64 cm)	0.500" (1.27 cm)	0.750" (1.9 cm)
Ratio accuracy – % of 100 psig (7 bar) output span % of output span with 100 psig (7 bar) input span	1.0 —	1.0	1.0
Supply pressure effect – for change of 100 psig (7 bar)	0.10 psig (.007 bar)	0.20 psig (.014 bar)	0.30 psig (.021 bar)
Ambient temperature:	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)

Ordering Information:



Most popular.



C

K100

General

Dial

Pilot

Proportional

Precision

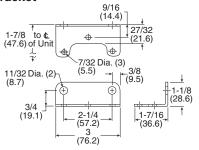
Catalog 0700P-8 Precision Pneumatic Input Signal Amplifier

Material Specifications		
Body and housing	Aluminum	
Diaphragm	Nitrile on dacron fabric	
Trim	Zinc plated steel, brass	

Repair and Service Kits

Mounting bracket	PS09921
1:1 Ratio	PS19513-11
1:1 Ratio w/ by-pass valve	PS19513-11I
1:2 Ratio	PS19513-12
1:3 Ratio	PS19513-13

Mounting bracket



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

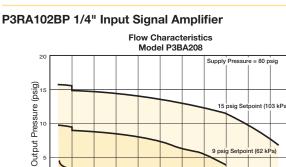
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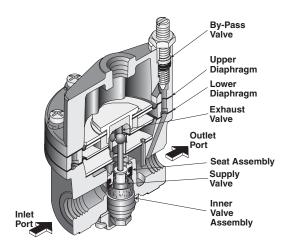
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

Air Preparation Products **Regulator Products**

5 10 15

Flow Charts





20

Air Flow - (scfm)

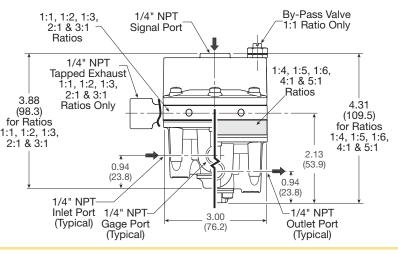
25 30

35 40 45 50

Operating Principles

The P3BA208 Input Signal Amplifier is a pneumatic device capable of high flow and exhaust capacity. This device uses a force balance system to control the movement of the supply and exhaust valves.

At set point, the force due to signal pressure that acts on the top of the Upper Diaphragm balances with the force due to output pressure acting on the bottom of the Lower Diaphragm.





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

Dial

Pilot

Proportional

Precision

Water

P3BA45 Precision Pneumatic Input Signal Amplifier

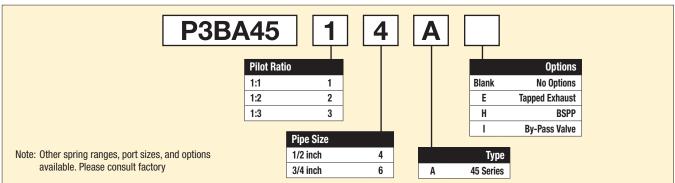
- Five signal to output ratios meet most control element requirements.
- · Control sensitivity of water column allows use in precision applications.
- Large Supply and Exhaust Valves provide high forward and exhaust flows.
- Soft Supply and Exhaust Valve seats minimize air consumption.
- A balanced Supply Valve minimizes the effect of supply pressure variation.
- An Aspirator Tube compensates downstream pressure droop under flow conditions.
- A separate Control Chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing.
- Unit construction lets you service the P3BA45 without removing it from the line.



Port Size	Description	Part Number
1/2"	1:1 pilot ratio	P3BA4514A
3/4"	1:1 pilot ratio	P3BA4516A

Operating information			
Signal : Output	1:1	1:2	1:3
Output pressure, maximum:	150 psig (10 bar)	150 psig (10 bar)	150 psig (10 bar)
Supply pressure, maximum:	250 psig (17 bar)	250 psig (17 bar)	250 psig (17 bar)
Flow capacity – 100 psig (7 bar), supply 20 psig (1.5 bar) output	150 scfm (255 m³/HR)	150 scfm (255 m³/HR)	150 scfm (255 m³/HR)
Exhaust capacity – Downstream pressure 5 psig (.35 bar) above 20 psig (1.5 bar) setpoint	40 scfm (62.5 m³/HR)	40 scfm (62.5 m³/HR)	40 scfm (62.5 m³/HR)
Sensitivity, water column:	1.0" (2.54 cm)	2.0" (5.08 cm)	3.0" (7.62 cm)
Ratio Accuracy – % of 100 psig (7 bar) output span % of output span with 100 psig (7 bar) input span	3.0 —	3.0 —	3.0 —
Supply pressure effect – for change of 100 psig (7 bar)	0.10 psig (0.007 bar)	0.20 psig (0.014 bar)	0.30 psig (0.021 bar)
Ambient temperature:	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)	-40°F to 200°F (-40°C to 93°C)
Hazardous locations:	Acceptable for use in zones zones 21 and 22 for dust at	s 1 and 2 for gas atmospheres tmospheres.	; Groups IIA and IIB and

Ordering Information:



Most popular.



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K102

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

Precision

Water

General

Dial

Pilot

Revised	07-12-17)
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Precision Pneumatic Input Signal Amplifier

Aluminum Nitrile on dacron
Nitrila an dearan
fabric
Zinc plated steel, brass

Repair and Service Kits

1:1 ratio	PS19549-1
1:1 ratio w/ tapped exhaust	PS19549-1E
1:3 ratio	PS19549-3
1:2 ratio	PS19549-2
1:1 w/ tapped exhaust, I option	PS19549-20E

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

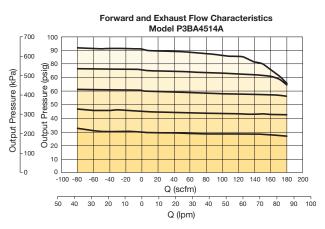
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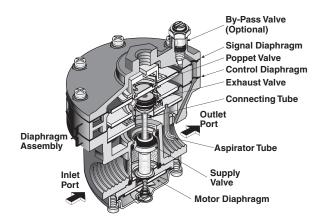
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

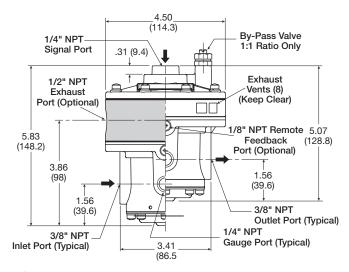


Flow Charts

P3BA45 1/2" & 3/4" Input Signal Amplifier







Inches (mm)

Operating Principles

When signal pressure on the top of the Signal Diaphragm creates a downward force on the Diaphragm Assembly, the Supply Valve opens. Output pressure flows through the Outlet Port and the Aspirator Tube to the Control Chamber to create an upward force on the bottom of the Control Diaphragm. When the setpoint is reached, the force of the signal pressure that acts on the top of the Signal Diaphragm balances with the force of the output pressure that acts on the bottom of the Control Diaphragm to close the Supply Valve.

When the output pressure increases above the signal pressure, the Diaphragm Assembly moves upward to close the Supply Valve and open the Exhaust Valve. Because the Poppet Valve is closed, pressure flows down the Connecting Tube to the bottom of the Motor Diaphragm. This pressure keeps the Supply Valve tightly closed while in the exhaust mode. The Poppet Valve opens and excess output pressure exhausts through the vent in the side of the unit until it reaches the setpoint.

General

Dial

Pilot

Proportional



K103

20R Regulators – Miniature Water

- 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

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products • 1/8:, 1/4" ports (NPT, BSPP)



Port Size	Description	Part Number
1/8"	Without gauge	20R013GC
1/4"	Without gauge	20R113GC

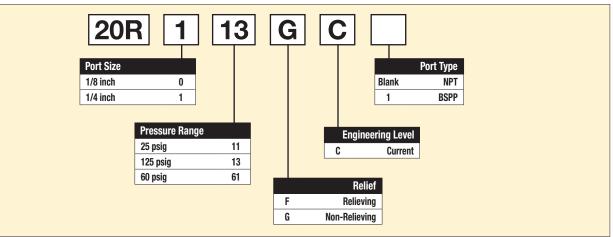
NOTE: 1.25 Dia. (31.8 mm) hole required for panel mounting.



Operating information

Supply pressure (max):	0 to 300 psig (0 to 20.7 bar)
Secondary pressure ranges Standard Medium Medium	2 to 125 psig (0 to 8.6 bar) 1 to 60 psig (0 to 4.1 bar) 1 to 25 psig (0 to 1.7 bar)
Operating temperature:	32°F to 125°F (0°C to 52°C)
High flow:	1.25 GPM
Gauge ports (2):	1/8 inch
Weight:	0.5 lb (0.23 kg)

Ordering Information:



Most popular.



C

K104

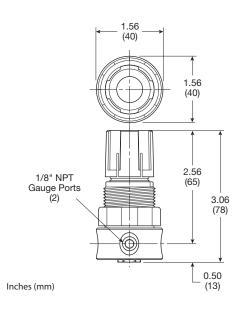
Catalog 0700P-8 Miniature Water Regulators

Material Specifications

-	
Adjusting nut & stem	Steel
Body, valve poppet, bottom plug, diaphragm button	Brass
Bonnet, knob	Plastic
Seals, diaphragm	Buna N
Springs	Steel

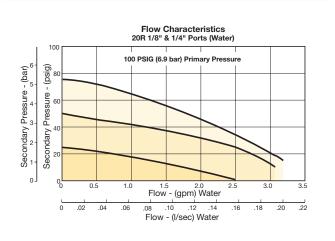
Repair and Service Kits

Bonnet kit	PCKR364Y
Bonnet tamperproof kit	PCKR364T
Panel mount nut, aluminum	R05X51-A
Panel mount nut, plastic	R05X51-P
Mounting bracket kit	SA161X57
Relieving	PRKR164Y
Non-Relieveing	PRKR163Y



Air Preparation Products **Regulator Products**

Flow Charts



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. General

Dial

Pilot

Proportional

Precision



Regulator Products

Port

R24 Regulators – Miniature Water

Water service

- Constructed with a combination of N.S.F. and F.D.A. compliant materials
- Lightweight plastic body
- 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
- 1/8", 1/4" ports (NPT)

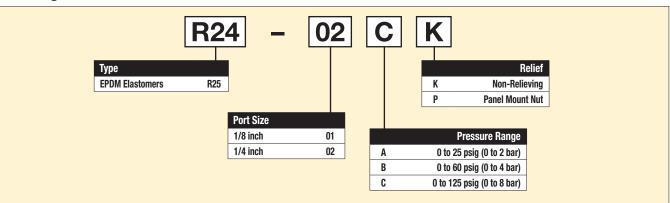


iption	Part Number

Size	Description	Part Number
1/8"	Non-Relieving, 0-125 Reduced Pressure, Without Gauge	R24-01CK
1/4"	Non-Relieving, 0-125 Reduced Pressure, Without Gauge	R24-02CK

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

Ordering Information:



Most popular.



C

K106



Operating information

Supply pressure (max): Operating temperature: Gauge ports (2):

Weight:

Inlet 150 psig (10.0 bar) 40°F to 125°F (4°C to 52°C) 1/8 inch (can be used for full flow) 0.25 lb (0.11 kg)

Catalog 0700P-8 Miniature Water Regulators

Material Specifications

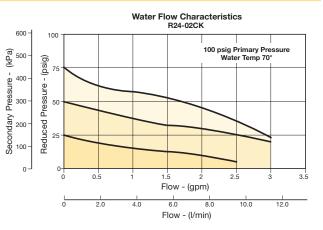
-	
Adjusting screw	Steel
Body	Acetal
Bonnet and seat	Acetal
Diaphragm	EPDM
Seals	EPDM
Springs	Stainless steel
Valve poppet	EPDM

Repair and Service Kits

-	
Panel mount nut, plastic	R05X51-P
Mounting bracket and nut	SA161X57
Relieving (EPDM)	RKR24Y
Non-Relieving (EPDM)	RKR24KY
0-25 psig spring	SPR-375-1
0-60 psig spring	SPR-376
0-125 psig spring	SPR-377
Tamperproof kit	CKR364T

Air Preparation Products **Regulator Products**

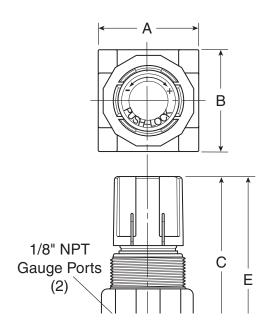
Flow Charts



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.



Water

General

Dial

Pilot

Proportional

Precision



C

Water service

General

Dial

Pilot

Proportional

Precision

Water

Regulator Products

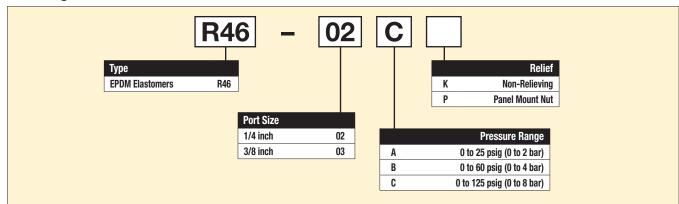
- Constructed with a combination of N.S.F. and F.D.A. compliant materials
- Lightweight plastic body
- Unbalanced poppet standard
- Non-rising, push-to-lock adjusting knob
- Compact, 3.43 inch (87.1mm) high by 2.06 inch (52.3mm) wide
- Lightweight
- Diaphragm operated
- 1/4", 3/8" ports (NPT)



Port Size	Description	Part Number
1/4"	Non-Relieving, 0-125 Reduced Pressure, Without Gauge	R46-02CK
3/8"	Non-Elieving, 0-125 Reduced Pressure, Without Gauge	R46-03CK

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

Ordering Information:







K108



Operating information

Supply pressure (max):	Inlet 150 psig (10.0 bar)
Operating temperature:	40°F to 125°F (4°C to 52°C)
Gauge ports (2):	1/4 inch (can be used for full flow)
Weight:	0.38 lb (0.17 kg)

Catalog 0700P-8 Miniature Water Regulators

Material Specifications

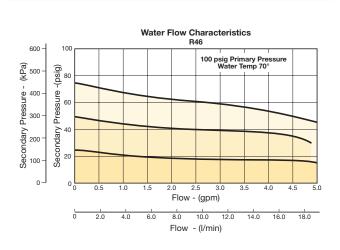
-	
Adjusting screw	Steel
Body	Acetal
Bonnet and seat	Acetal
Diaphragm	EPDM
Seals	EPDM
Springs	Stainless steel
Valve Poppet	EPDM

Repair and Service Kits

Panel mount nut, plastic	R05X51-P
Mounting bracket and nut	SA161X57
Relieving	RKR45Y
Non-Relieving	RKR45KY
0-25 psig spring	SPR-46
0-60 psig spring	SPR-47
0-125 psig spring	SPR-48

Air Preparation Products **Regulator Products**

Flow Charts



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.



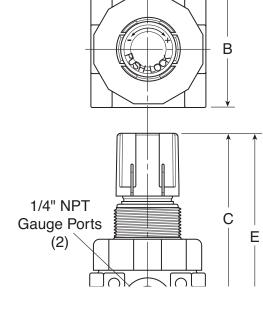
General

Dial

Pilot

Proportional

Precision









For inventory, lead times, and kit lookup, visit www.pdnplu.com



Air Preparation Products Contents - www.parker.com/pneu/frl

Air Preparation Products Bulk Liquid Separators

WS

L2-L6



WS Compressed Air Water Separator

- Tested in accordance with ISO 8573-1
- Designed for use with compressor inter coolers / after coolers, integration with refrigeration dryer heat exchangers or protection of coalescing filter from heavy liquid contamination
- Specifically designed to meet the needs of modern air compressors and optimised for use with variable speed air compressors
- Flow management system Engineered to provide smooth air flow from entry to exit
- Water separator module design includes optimised vanes to spin the compressed air, a high efficiency impinger for maximum separation efficiency, vortex concentrator and 90-degree elbow with turning vanes to promote a consistent, optimum air flow with minimal pressure loss
- 1/4" to 3" ports (NPT, BSPP)



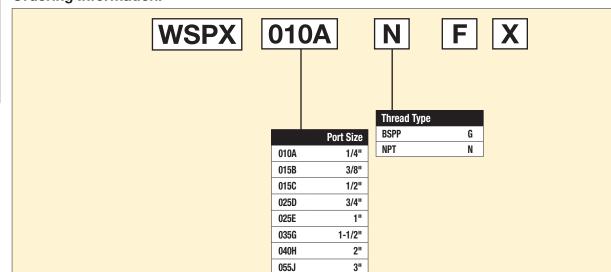
Operating information

Operating pressu Operating pressu	re (min):	232 psig (16 bar) 22 psig (1.5 bar)
Operating temperature: Flow: 1/4" 3/8", 1/2" 3/4", 1" 1-1/2", 2" 3"		35°F to 149°F (2°C to 65°C) 21 scfm (10 L/s) 85 scfm (40 L/s) 233 scfm (110 L/s) 742 scfm (350 L/s) 1695 scfm (800 L/s)
Weight:	1/4" 3/8", 1/2" 3/4", 1" 1-1/2", 2" 3"	1.78 lb (0.81 kg) 3.10 lb (1.41 kg) 5.86 lb (2.66 kg) 15.14 lb (6.87 kg) 18.66 lb (8.47 kg)

Pipe Size	Part Number (NPT)
1/4"	WSPX010ANFX
3/8"	WSPX015BNFX
1/2"	WSPX015CNFX
3/4"	WSPX025DNFX
1"	WSPX025ENFX
1-1/2"	WSPX035GNFX
2"	WSPX040HNFX
3"	WSPX055JNFX

Pressure differential at rated flow ... 1.6 psid (111 mbar) Stated flows are for operation at 102 psig (7 bar) with reference to 68°F (20°C), 1 bar (a), 0% relative water vapor pressure.

Ordering Information:



Most popular.

-Parker



L2

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

P3TF Series

Air Preparation Products **Bulk Liquid Separator**

Inlet air pressure correction

-																
psi	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
bar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Factor	4.00	2.63	2.00	1.59	1.33	1.14	1.00	0.94	0.89	0.85	0.82	0.79	0.76	0.73	0.71	0.68

Material Specifications

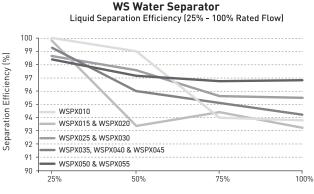
Automatic float drain	Plastic			
Housing / bowl	Aluminum			
Seals	Fluorocarbon			

Repair and Service Kits

Drain kit

EFI

Flows



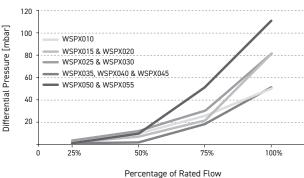
Percentage of Rated Flow

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 impeller.
- 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.

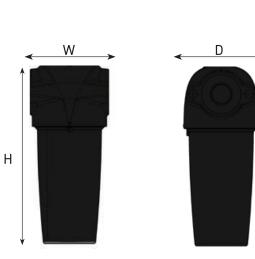


WS Water Separator Differential Pressure (25% - 100% Rated Flow)



Vanes Impeller

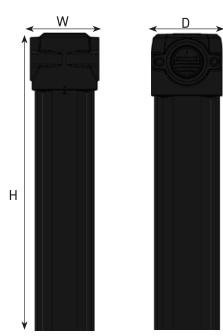
P3TF (Bulk Liquid Separator)



Dimensions

Part Number	Pipe size	н	W	D	BSPP
WSPX010AGFX	1/4"	7.09 (180)	2.99 (76)	1.28 (32.5)	1/2
WSPX015BGFX	3/8"	9.37 (238)	3.50 (89)	1.66 (42)	1/2
WSPX015CGFX	1/2"	9.37 (238)	3.50 (89)	1.66 (42)	1/2
WSPX025DGFX	3/4"	10.91 (277)	4.72 (120)	2.26 (57.5)	1/2
WSPX025EGFX	1	10.91 (277)	4.72 (120)	2.26 (57.5)	1/2
WSPX035GGFX	1-1/2"	17.32 (440)	6.46 (164)	3.09 (78.5)	1/2
WSPX040HGFX	2"	17.32 (440)	6.46 (164)	3.09 (78.5)	1/2
WSPX055JGFX	3"	20.28 (515)	7.56 (192)	3.60 (91.5)	1/2

Inches (mm)



Bulk Liquid Separators

P3TF Series



Wall Mounting Bracket Kit

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

Brackets

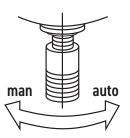
Part Number	Bracket Part Number
WSPX010AGFX	MBK1-1
WSPX015BGFX	MBK2-1
WSPX015CGFX	MBK2-1
WSPX025DGFX	MBK3-1
WSPX025EGFX	MBK3-1
WSPX035GGFX	MBK4-1
WSPX040HGFX	MBK4-1
WSPX055JGFX	MBK5-1

Notes

The device including the drain valve must be fitted vertically (in relation to the reservoir). The minimum operating pressure for the drain is 1.5 bar; below 1.5 bar air escapes from the drain cock. The drain (normally closed) is closed irrespective of the pressure. In order to ensure the float (1) remains buoyant, the maximum operating pressure of 16 bar may not be exceeded. The automatic units may only be fitted to condensate reservoirs of Ø14 mm. Manual drainage of the condensate is effected by turning the hand wheel anti-clockwise. For automatic operation, the drain screw (18) must be turned clockwise as far as it will go (Figure 1).



Figure 1



P3TF Series





L5





Air Preparation Products Contents - www.parker.com/pneu/frl

Starlette	
Parker	



Parker

Air Preparation Products
Dryer SeriesSPE / DRD RefrigerationM2-M5DD DisposableM6DD Inline DesiccantM7-M8TW Heatless DesiccantM9-M12





SPE / DRD Refrigeration Dryer Series



SPE010 - SPE0250

- "Plug & Play" design for easy installation and operation
- Small space saving design
- High reliability, easy to use and maintain
- All models equipped standard with a digital controller
 - controls integral timed drain
 - various warning and alarms
 - on/off indicator
- Drain has access from both sides
- Non cycling dryer



DRD325 - DRD2400

- Optimum dewpoint levels for highest system performance
- Advanced patented design solutions
- High reliability, easy to use and maintain
- Unique 4-in-1 SmartPack heat exchanger
- Integral drain
- Extremely low pressure drop design
- SmartControl energy saving function (cycling dryer)
- Excellent dewpoint performances
- Advanced compliant scroll compressor

Capacity SCFM @ 100 psig (m ³ /min @ 6.9 bar)	Primary Voltage	Part Number	Pipe Size (NPT) ‡	Recommended Film Bulk Separator	Pre-Filter (5µ particulate)*†	Post-Filter (.01µ coalescing w DP
10 (17)	115V/1 ph / 60 Hz	SPE010-A11516016TIU	(NFT)+ 1/2"	P3TFA94WCAN	P32FB94QSAN *	P32FB94DSAN
15 (26)	115V/1 ph / 60 Hz	SPE015-A11516016TIU	1/2"	P3TFA94WCAN	P32FB94QSAN*	P32FB94DSAN
25 (43)	115V/1 ph / 60 Hz	SPE025-A11516016TIU	1/2"	P3TFA94WCAN	P32FB94QSAN*	P32FB94DSAN
35 (60)	115V/1 ph / 60 Hz	SPE035-A11516016TIU	3/4"	P3TFA96WDAN	P33FA96QSAN*	P33FA96DSAN
50 (85)	115V/1 ph / 60 Hz	SPE050-A11516016TIU	3/4"	P3TFA96WDAN	P33FA96QSAN *	P33FA96DSAN
75 (127)	115V/1 ph / 60 Hz	SPE075-A11516016TIU	1"	P3TFA98WEAN	P3YFA98ESAN	P3YFA98DSAN
100 (170)	115V/1 ph / 60 Hz	SPE0100-A11516016TIU	1"	P3TFA98WEAN	P3YFA98ESAN	P3YFA98DSAN
125 (212)	115V/1 ph / 60 Hz	SPE0125-A11516016TIU	1"	P3TFA98WEAN	P3YFA98ESAN	P3YFA98DSAN
150 (255)	115V/1 ph / 60 Hz	SPE0150-A11516016TIU	1-1/2"	P3TFA9BWGAN	P3NFA9PGSA †	P3NFA9PDSA
175 (297)	115V/1 ph / 60 Hz	SPE0175-A11516016TIU	1-1/2"	P3TFA9BWGAN	35F77BAP	35F77EAP
175 (297)	230 V/1 ph / 60 Hz	SPE0175-A23016016TIU	1-1/2"	P3TFA9BWGAN	35F77BAP	35F77EAP
200 (340)	230 V/1 ph / 60 Hz	SPE0200-A23016014TIU	1-1/2"	P3TFA9BWGAN	35F77BAP	35F77EAP
250 (425)	230 V/1 ph / 60 Hz	SPE0250-A23016014TIU	1-1/2"	P3TFA9BWGAN	35F77BAP	35F77EAP
325 (552)	230V/3ph/60Hz & 460V/3ph/60Hz	DRD325-A23036014EI DRD325-A46036014EI	2" NPT-F	P3TFA9CWHAN	35F87BAP	35F87EAP
400 (680)	230V/3ph/60Hz & 460V/3ph/60Hz	DRD400-A23036014EI DRD400-A46036014EI	2" NPT-F	P3TFA9CWHAN	35F87BAP	35F87EAP
500 (849)	230V/3ph/60Hz & 460V/3ph/60Hz	DRD500-A23036014EI DRD500-A46036014EI	2" NPT-F	P3TFA9CWHAN	35F87BAP	35F87EAP
700 (1189)	230V/3ph/60Hz & 460V/3ph/60Hz	DRD700-A23036014EI DRD700-A46036014EI	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
800 (1359)	230V/3ph/60Hz & 460V/3ph/60Hz	DRD800-A23036014EI DRD800-A46036014EI	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
1000 (1700)	460V/3ph/60Hz	DRD1000-A46036014EI	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
1200 (2039)	460V/3ph/60Hz	DRD1200-A46036014EI	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
1600 (2718)	460V/3ph/60Hz	DRD1600-A46036014EI	4" Flg.	P3TFAFFW2AN	P3TFAFFQ2AN*	P3TFAFFD2AN
2000 (3400)	460V/3ph/60Hz	DRD2000-A46036014EI	6" Flg.	P3TFAFGW3AN	P3TFAFGQ3AN*	P3TFAFGD3AN
2400 (4078)	460V/3ph/60Hz	DRD2400-A46036014EI	6" Flg.	P3TFAFGW3AN	P3TFAFGQ3AN*	P3TFAFGD3AN

* SPE010-025 are 1/2" NPT compatible. SPE035-0250 are manufactured with BSPP-F ports, but come standard with BSP to NPT adapter.

* 1µ coalescing

† 40 micron



C

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

Most popular.

Refrigeration

Disposable

Desiccant

Air Preparation Products **Dryers**

The importance of compressed air as a provider of energy for modern industrial processes is widely known. What is often overlooked however is the need to provide quality treatment for this air.

In fact, the air entering the system contains condensate which, when cooled, will turn into liquid water, causing extensive damage not only to the compressed air network, but also to the finished product.

DRD refrigeration dryers actively remove this condensate to achieve extremely dry compressed air.

Our SmartPack heat exchanger offers minimal pressure drops and class leading performance, and significantly increases the efficiency of the whole compressed air treatment process. The innovative SmartControl function automatically and continuously adjusts dryer operation to the effective working conditions, minimizing operating costs and maximizing performances.

Compressed air purification equipment must deliver uncompromising performance and reliability while providing the right balance of air quality with the lowest cost of operation. Many manufacturers offer products for the filtration and purification of contaminated compressed air, which are often selected only upon their initial purchase cost, with little or no regard for the air quality they provide, the cost of operation throughout their life or their environmental impact. When purchasing purification equipment, delivered air quality, the overall cost of ownership and the equipment's environmental impact must always be considered.

Smart technology: the benefits

SmartPack heat exchanger provides less than 2 PSI pressure drop

The SmartPack (patent pending) heat exchanger features an extremely robust, all-in-one aluminum design, with no interconnecting tubing.

The geometry of the heat exchanger has been designed in order to optimize its performances. In particular, large volumes allow low air velocity through the heat exchanger section, resulting in high exchange efficiency and low pressure drops. Pressure drops are further improved thanks to the absence of interconnecting pipes through the different sections of the heat exchanger and to a straight forward path of the compressed air flow with smooth and minimum changes of flow directions.

Smart BMS interface

- Simple BMS interface includes:
- RS485 serial card provides direct communication to Modbus. Requires no gateway or A.N.I.
- Provides visualization of dewpoint, alarm conditions and service indication
- Provides remote control of the dryer including on/off and alarm reset (depending on actual alarm)



SmartDrain - Dual mode zero air loss drain

The drainage chamber is integrated into the heat exchanger while the valve mechanism is fitted in an easily accessible drain niche. The SmartDrain continuously adjusts itself to the actual working conditions, ensuring zero air loss and a notable reduction in system power consumption.

An innovative control system continuously monitors for fault situations. If a fault does occur, an alarm is signaled and the drain switches to conventional timed solenoid drain operation. The dual mode circuitry ensures maximum reliability.

Smart control with SmartSave cycling

The multifunction SmartControl provides a versatile platform for user interface and SmartSave Cycling (if enabled). The innovative SmartSave (patent pending)

Cycling Control continuously monitors the demand placed on the dryer. At conditions of low demand the refrigerant compressor is cycled off to save energy. A sophisticated algorithm continuously adapts the operation of the dryer for optimum energy efficiency while minimizing the dewpoint spikes common to traditional thermal mass dryers.

Compliant scroll compressors

These units feature Compliant Scroll compressors, offering energy savings of 20 -30% when compared with piston compressors. The ability to tolerate liquid returns coupled with 50% less moving parts render them nearly indestructible and highly reliable. Low vibration levels increase overall refrigeration circuit Disposable



Air Preparation Products **Dryers**

Operating information

		Operating pr	perating pressure		ng ature	Ambient	Electrical		Noise level	Refrigerant
Dryer Models	Dewpoint	Min	Max	Min	Max	maximum	supply	Thread	bB(A)	type
SPE010 - SPE050			000 pairs (16 har)				115)/ 1pb 60 1p			
SPE075 - SPE0175	ISO 8573-1 Class 5	29 psig (2 bar)	232 psig (16 bar)	41°F (5°C)	149°F (65°C)	122°F (50°C)	115V 1ph 60 Hz	NPT	<75	R134a
SPE0200 - SPE025			203 psig (14 bar)	(2 0)	(23 0)		230 1ph 60 Hz			

Controller Functions

Dryer Models	Power on indication	Visual fault indication	Compressed air temperature	Dryer service indicator	Fault relay power loss
SPE010-0250	Х	Х	Х	Х	Х

Quality Assurance / IP Rating / Pressure Vessel Approvals

Development/ManufactureISO 9001 / ISO 14001Ingress Protection RatingIP22 Indoor Use Only

Product Selection and Correction Factors

Capacities are based upon: Ambient temperature - 100°F (38°C); inlet temperature - 100°F (38°C); and working pressure - 100 psig (7 bar g)

Minimum Drying Capacity = System flow x CFIT x CFATx CFMIP

NOTE: Flowrate, temperatures, and pressure MUST be provided by customer.

Min inlet pressure - $80^{\circ}F(27^{\circ}C) = 1.09$

Example: 50 scfm flowrate Inlet temperature - $100^{\circ}F(38^{\circ}C) = 1.0$ Max ambient temperature - $110^{\circ}F(43^{\circ}C) = 1.08$

50 (1.0) + 1.08 + 1.09 = 59, therefore, a larger 75 scfm dryer is required

	SPE01	0 - SPE	E0250									DRD3	25 - DR	D2400				
CFIT - Correcti	on facto	or minir	num in	et temp	peratur	е												
°F	90	95	100	110	120	130	140	149				90	100	110	120	130	140	
°C	32	35	38	43	49	54	60	65				32	38	43	49	54	60	
Factor	0.74	0.82	1.00	1.33	1.76	2.38	2.60	2.67				1.22	1.00	0.82	0.68	0.56	0.46	
CFAT - Correct	ion fact	or max	imum a	mbient	tempe	rature												
°F	60	70	80	90	95	100	110	120	122			70	80	90	100	110	120	122
°C	16	21	27	32	35	38	43	49	50			21	27	32	38	43	49	50
Factor	0.93	0.93	0.93	0.93	0.96	1.00	1.08	1.16	1.18			1.22	1.15	1.05	1.00	0.94	0.79	0.71
CFMIP - Correc	ction fac	ctor min	nimum	inlet pr	essure													
psig	45	60	80	100	125	145	150	160	175	200	232	60	80	100	125	150	174	203
bar	3	4	6	7	9	10	10	11	12	14	16	3	6	7	9	10	12	14
Factor	1.40	1.17	1.09	1.00	0.88	0.83	0.82	0.81	0.79	0.75	0.71	0.83	0.93	1.00	1.07	1.12	1.15	1.18

Dimensions	Part Number	A width	B height	C depth	Weight (kg)
SPE010-SPE0250	SPE010-A11516016TIU	11.8 (300)	20.5 (520)	15.7 (400)	53 (24)
	SPE015-A11516016TIU	11.8 (300)	20.5 (520)	15.7 (400)	53 (24)
	SPE025-A11516016TIU	11.8 (300)	20.5 (520)	15.7 (400)	55 (25)
	SPE035-A11516016TIU	13.0 (330)	22.8 (580)	21.7 (550)	77 (35)
\uparrow	SPE050-A11516016TIU	13.0 (330)	22.8 (580)	21.7 (550)	79 (36)
Starlette	SPE075-A11516016TIU	15.7 (400)	25.6 (650)	24.8 (630)	101 (46)
В	SPE0100-A11516016TIU	15.7 (400)	25.6 (650)	24.8 (630)	101 (46)
	SPE0125-A11516016TIU	15.7 (400)	25.6 (650)	24.8 (630)	104 (47)
Parker	SPE0150-A11516016TIU	15.7 (400)	25.6 (650)	24.8 (630)	117 (53)
	SPE0175-A11516016TIU	15.7 (400)	25.6 (650)	24.8 (630)	121 (55)
	SPE0175-A23016016TIU	15.7 (400)	25.6 (650)	24.8 (630)	121 (55)
	SPE0200-A23016014TIU	17.7 (450)	33.1 (840)	30.7 (780)	176 (80)
Inches (mm)	SPE0250-A23016014TIU	17.7 (450)	33.1 (840)	30.7 (780)	176 (80)

Most popular.



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

Desiccant

Dryers

Catalog 0700P-8 Refrigeration Dryers

Air Preparation Products **Dryers**

Dimensions	Part Number	A width	B height	C depth	Weight (kg)
DRD325-DRD2400	DRD325-A23036014EI	28.0 (711)	42.0 (1067)	41.0 (1041)	320 (145)
	DRD400-A23036014EI	28.0 (711)	42.0 (1067)	41.0 (1041)	320 (145)
	DRD500-A23036014EI	28.0 (711)	42.0 (1067)	41.0 (1041)	342 (155)
-Darker	DRD700-A23036014EI	32.0 (813)	52.0 (1321)	46.0 (1168)	529 (240)
B	DRD800-A23036014EI	32.0 (813)	52.0 (1321)	46.0 (1168)	529 (240)
	DRD1000-A46036014EI	32.0 (813)	52.0 (1321)	46.0 (1168)	551 (250)
	DRD1200-A46036014EI	40.0 (1016)	67.0 (1702)	43.0 (1092)	816 (370)
C	DRD1600-4A6036014EI	40.0 (1016)	68.0 (1727)	71.0 (1803)	1279 (580)
A	DRD2000-A46036014EI	40.0 (1016)	68.0 (1727)	71.0 (1803)	1477 (670)
Inches (mm)	DRD2400-A46036014EI	40.0 (1016)	68.0 (1727)	71.0 (1803)	1521 (690)

Desiccant

Most popular.



M5

Air Preparation Products **Dryers**

DD10 Mini Disposable Dryer

Mini disposable inline desiccant dryer - DD10

Used at the point-of-use, this disposable, mini inline desiccant dryer removes all traces of water vapor, oil vapor and dirt. It is often used directly upstream of blow guns or spray guns as final protection for critical parts blow off and paint spraying. Install in either direction; it functions in both directions.

A 40 micron, porous bronze element removes fine dirt particles, an oil removing media removes oil vapor, and desiccant beads adsorb water vapor. The see-through housing shows desiccant color change from the original orange to a green color in the desiccant beads, which indicates that the dryer needs to be replaced.

Features

Refrigeration

Disposable

Desiccant

Regenerative

Desiccant

- · Polycarbonate material allows clear desiccant visibility
- Disposable
- Used for parts blow off
- Protection for paint guns
- Non-toxic desiccant standard
- 1/4" port (NPT)



DD10-02

Operating information

Operating temperature:	
Maximum	
Flow capacity:	
Pressure rating (max.):	
Weight:	

32°F to 130°F (0°C to 54°C) 130°F (54°C) 15 scfm (7.1 dm³/s, ANR) 125 psig (8.6 bar) 2.8 oz (79.4 g)

Installation

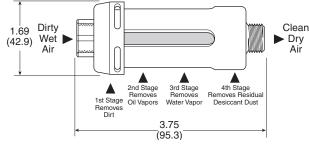
The DD10 is equipped with a 1/4" NPT (F) and (M) ports and can be installed in either direction. When installing the filter/dryer hand tighten to a leak proof seal. Do not use any mechanical means to hold the filter/dryer and do not over torque the threads.

Operation

- 1. The unique feature of the filter/dryer design allows you to visually see when it is time to install a new DD10 by observing the color change from the original orange color to a complete green color in the desiccant beads.
- 2. Do not attempt to clean the filter/dryer as the use of solvents, ketones, etc., will adversely affect the plastic housing.
- 3. Keep the hose free of snags. Extra tension on the filter/dryer assembly could break the unit at the connecting ports. To clear stuck hoses, grasp hose below the filter/dryer.

Dryers

Non-metalic material is highly resistant to chemicals. See through housing shows color change when dryer needs replacement.





Air Preparation Products Dryers

DD Inline Desiccant Dryers

- Inline desiccant dryers are a convenient and cost effective means of ensuring your sensitive intermittent pneumatic applications are never exposed to damaging moisture
- Compact size for point-of-use applications
- Drying efficiency down to -40°F pressure dew point
- Easily and quickly serviced
- · Sight glass in bowl to monitor desiccant
- · Built-in particulate after filter prevents downstream dust
- No electricity needed
- Low pressure drop
- · No purge air lost as with other dryer types
- · Check valve required on inlet
- · Desiccant must be ordered separately

Inline Desiccant Dryers

scfm / desiccant Capacity ¹ 15 scfm / 30 scfm /	60 scfm /
Port Size 2.5 lb. 5 lbs.	10 lbs.
1/4 ² DD15-02	
3/8 ² DD15-03	
1/2 ² DD15-04 DD30-04	DD60-04
3/4 DD15-06 DD30-06	DD60-06
1 DD30-08	DD60-08

Notes:

1. Desiccant must be ordered separately.

2. These units supplied with reducer bushings.

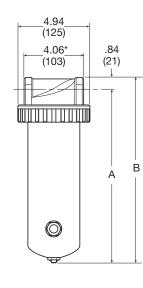
Installation tips

- Always place a moisture separator / particulate filter to remove bulk moisture and a coalescing filter to remove oil upstream of desiccant dryer. Desiccant coated with oil will not adsorb water vapor.
- Automatic drains should be used in prefilters
- · A spring ball check valve should be installed at the dryer inlet to maximize the life of the desiccant.



|--|

Optimum working temperature:	Below 100°F
Operating temperature:	32°F to 180°F (0°C to 82°C)
Operating pressure (max.):	0 to 300 psig (21 bar)
Filter element rating: DD15, DD30 DD60	90 micron 40 micron
Desiccant capacity: DD15 DD30 DD60	2.5 lb. (1.1 kg) 5 lb. (2.3 kg) 10 lb. (4.5 kg)
Weight: DD15 (add 2.5 lb for weight full) DD30 (add 5 lb for weight full) DD60 (add 10 lb for weight full)	8 lb. (3.6 kg) 13 lb. (5.9 kg) 20 lb. (9.1 kg)



	Α	В			
DD15	12.69 (322)	13.5 (343)			
DD30	22.44 (570)	23.25 (591)			
DD60	29.44 (748)	30.25 (768)			
* Dimension does not include reducer bushings for 1/4", 3/8", 1/2" versions.					

Inches (mm)

Dryers

Refrigeration

Disposable

Desiccant

Regenerative Desiccant

Desiccant Heatless

Most popular.



M7

Catalog 0700P-8 Desiccant Dryers

Refrigeration

Disposable

Desiccant

Regenerative Desiccant

Heatless Desiccant

Dryers

As the wet compressed air enters through the inlet, the air travels down through the bed of desiccant which adsorb the water vapor and aerosols. The silica gel desiccant beads will reduce the humidity down to a -40°F pressure dew point. After the moisture has been removed, the dry air passes through a sintered bronze filter element (eliminating dust downstream), up the tube and out the outlet port.

As the desiccant becomes saturated with moisture, the dew point will begin to rise. This is evident when the orange silica gel desiccant beads in the sight glass change to green, indicating the need for desiccant replacement. Simply remove the flange and bowl and replace with new desiccant or regenerate saturated desiccant by heating to 275°F.

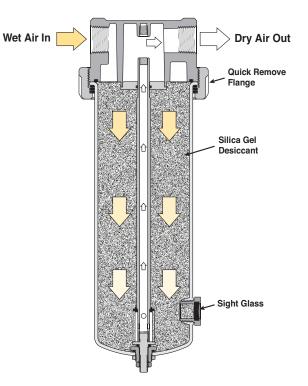
Material specifications

Bowl, DD15	Aluminum
Bowl, DD30	Aluminum
Bowl, DD60	Steel
Flow tube	CPVC
Filter element	Sintered bronze
Head & flange ring	Zinc
Other hardware	Brass
Seals	Buna-N
Sight glass	Glass & steel

Repair and Service Kits

-	
Desiccant - 100% Indicating silica gel, DD15	DRP-14-447/003
Desiccant - 100% Indicating silica gel, DD30	DRP-14-447/006
Desiccant - 100% Indicating silica gel, DD60	DRP-14-447/012
Mounting brackets (pair of pipe mounted brackets), 1 inch pipe size	SA200CW57
Flow tube repair kit (tube, filter element(s), adaptor), DD15	RKDD15-02-06
Flow tube repair kit (tube, filter element(s), adaptor), DD30	RKDD30-03-08
Flow tube repair kit (tube, filter element(s), adaptor), DD60	RKDD60-03-08
Mounting brackets (DD15 & DD30 only) – 1 inch pipe size (pair of pipe mounted brackets)	SA200CW57
1/4 inch NPT, spring check valve for inlet (250 psig max.)	003393001
3/8 inch NPT, spring check valve for inlet (250 psig max.)	003393002
1/2 inch NPT, spring check valve for inlet (250 psig max.)	003393003
3/4 inch NPT, spring check valve for inlet (250 psig max.)	003393004

Air Preparation Products **Dryers**







Air Preparation Products **Dryers**

TW Heatless Desiccant Air Dryer

Parker TW Series Heatless Desiccant Air Dryers remove water vapor from compressed air through a process known as pressure swing adsorption. Pressure dewpoints of -40°F (-40°C) standard are attained by directing the flow of saturated compressed air over a bed of desiccant.

Features

Allen-Bradley® PLC

- Two year dryer warranty (parts and labor)
- 4 line display
- NEMA 4X enclosure
- Selectable cycles

Switching Valves

• Five year switching valve warranty from manufacturer's defects (see warranty policy)

Factory Installed Filtration

- Single point connection for system integrity
- Differential pressure gauges for element condition
- Filter drains

Regulated Purge

- Factory set
- Optimum purge regardless of operating pressure
- Repressurization circuit



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Inlet or ambient air temperature:

Operating pressure:	
Working pressure:	
Pressure drop at rated flow:	
Primary voltage:	

50°F to 120°F (10°C to 49°C) maximum 80 psig (5.5 bar) minimum 150 psig (10.5 bar) maximum less than 5 PSI (0.34 bar) 120V/1ph/60Hz

Heatless Desiccant Air Dryers, Filtration comes with Dryer unit as standard.

Part Number	Capacity SCFM @ 100 psig	Approximate Purge scfm	Dryer Air Port in/out (NPT)	Pre-Filter	After-Filter
TW41BN14NNN	40	6	1/2"	AAP015CFNI	AOP015CNFI
TW56BN14NNN	55	8	3/4"	AAP020DFNI	AOP020DNFI
TW76BN14NNN	75	11	3/4"	AAP025DNFI	AOP025DNMI
TW101BN14NNN	100	15	1"	AAP025ENFI	AOP025ENMI
TW131BN14NNN	130	20	1"	AAP025ENFI	AOP025ENMI
TW201BN14NNN	200	30	1-1/2"	AAP030GNFI	AOP030GNMI
TW251BN14NNN	250	38	1/1/2"	AAP035GNFI	AOP035GNMI
TW301BN14NNN	300	45	1-1/2"	AAP035GNFI	AOP035GNMI
TW401BN14NNN	400	60	2"	AAP040HNFI	AOP040HNMI
TW501BN14NNN	500	75	2"	AAP045INFI	AOP045INMI
TW601BN14NNN	600	90	2"	AAP045INFI	AOP045INMI
TW801BN14NNN	800	120	2"	AAP050INFI	AOP050INMI





M9

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

Disposable

Desiccant

Dryers

LED Din Connectors

- Easy to maintain and service
- Valve(s) may be serviced without opening electrical enclosure
- No hard wiring required
- Visual indication of valve activation
- Valve labeling

Refrigeration

Disposable

Desiccant

Regenerative

Desiccant

Heatless Desiccant

Dryers



Additional Features

- Separate tower pressure gauges
- OSHA approved mufflers with safety relief
- ASME/CRN vessels (TW101 and larger)
- Desiccant fill and drain ports
- Safety relief valves
- Stainless steel diffuser screens
- CycleLoc® demand control
- Control air line filter
- ETL listed (UL/CSA standards)
- LED din connector(s) all solenoid valves
- 120 VAC power (other options available consult factory)
- Power cord with basic controller
- · Power din connector with advanced controller
- Power On/Off switch with advanced controller
- Steel base TW1001 and larger

Options

- PowerLoc Energy Demand Control (TW41 TW801) optional
- All NEMA classifications
- Control air tubing stainless steel
- Low ambient package (-20°F to +40°F air temperature)
- Instrumentation
- Locally mounted pressure and temperature gauges at inlet and outlet
- Pneumatic controls
- ASME B31.3 piping
- Corrosion allowance
- High pressure applications: 200 psig design
 & 250 psig design adders are available

Air Preparation Products **Dryers**

System Integrity

Parker TW Series Heatless Desiccant Air Dryers remove water vapor from compressed air through a process known as Pressure Swing Adsorption. Pressure dewpoints ranging from -40°F (-40°C) are attained by directing the flow of saturated compressed air over a bed of desiccant.

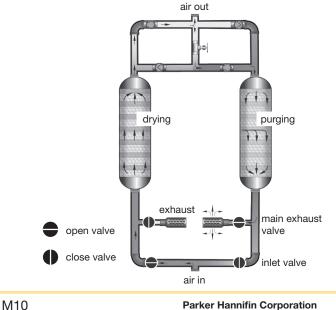
The most commonly used desiccant is activated alumina, a spherical shaped, hygroscopic material, selected for its consistent size, shape and extreme surface to mass ratio. This physically tough and chemically inert material is contained in two separate but identical pressure vessels commonly referred to as "dual" or "twin" towers.

As the saturated compressed air flows up through the "on-line" tower, its moisture content adheres to the surface of the desiccant. The dry compressed air is then discharged from the chamber into the distribution system.

An Allen-Bradley® PLC controller automatically cycles the flow of compressed air between the towers while the "on-line" tower is drying, the "off-line" tower is regenerating. Regeneration, sometimes referred to as purging, is the process by which moisture accumulated during the "on-line" cycle is stripped away during the "off-line" cycle. As dry low pressure purge air flows gently through the regenerating bed, it attracts the moisture that had accumulated on the surface of the desiccant during the drying cycle and exhausts it to the atmosphere.

To protect the desiccant bed from excess liquid, all Parker TW Series Heatless Air Dryers are designed to work with the natural pull of gravity. By directing the saturated air into the bottom of the "on-line" tower and flowing up through the bed, liquid condensate caused by system upset, is kept away from the desiccant and remains at the bottom of the tower where it can be easily exhausted during the regeneration cycle. Counter flow purging ensures optimum performance by keeping the driest desiccant at the discharge end of the dryer.

Heatless dryers in general are the most reliable and least expensive of all desiccant type dryers. Parker Airtek TW Series Heatless Desiccant Air Dryers are more energy efficient than competitors thanks to standard features such as: variable cycle control, CycleLoc® and regulated purge flow.





For inventory, lead times, and kit lookup, visit www.pdnplu.com

Catalog 0700P-8 Heatless Desiccant Dryers

(Revised 06-05-19)

Basic Controller

(Standard on Models TW41 - TW801)

- Allen-Bradley[®] PLC
- Nema 4X enclosure
- LCD user interface
- Four line digital display features:
 - Tower drying indication
 - Tower regenerating indication
 - Run status
 - Time remaining in cycle
- Selectable cycle settings
- Programmable drain timer (drain on, time and test)
- Compressor demand via external dry contact (CycleLoc®)
- Power ON/OFF switch
- Step-through regeneration for maintenance
- Cycle counter
- Hours of operation

Advanced Controller

(Optional on Models TW41-801)

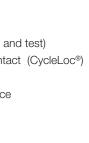
- Allen-Bradley® PLC
- Powerloc[®] Energy Demand System
 Energy savings percentage
 Hours in power save
- Nema 4X enclosure
- 3.5" LCD user interface
- Dew point sensor input (-148°F to 68°F)
- Optional 4-20 mA output for remotely monitoring dew point
- Tower pressure sensors
- Inlet pressure and temperature sensors
- Compressor demand via external dry contact (CycleLoc®)
- Modbus/TCP communications via standard ethernet port
- Modbus RTU communications via optional RS232/485 port (Using external gateway device)
- SD card slot for accessing historical data and alarm information
- Selectable cycle settings
- Programmable drain timer (drain on, time and test)
- User selectable alarms with common alarm relay
 - High inlet temperature
 - Low inlet pressure
 - Tower failed to blow down (switch failure)
 - Tower failed to pressurize
 - High dew point
 - Sensor failure for all sensors
 - Switch failure
 - Inlet filter pressure
- Filter maintenance timer & alarm
- Clogged muffler maintenance and alarm
- Power ON/OFF switch
- Alarm log stores most recent alarms
- Flashes green when in energy savings mode
- Flashes red when an alarm is present
- Dry contact for common alarm





For inventory, lead times, and kit

lookup, visit www.pdnplu.com



Air Preparation Products **Dryers**

PowerLoc[®] Energy Management System

(Optional on Models TW41-801)**

Energy savings of up to 80% can be achieved with the proven PowerLoc[®] energy management system.

Regeneration requirements are dependent on flow, pressure and temperature. The

PowerLoc[®] system allows the cost of drying compressed air to be matched exactly to your plant conditions.

PowerLoc[®] controls the drying cycle by continuously reacting to the loading under which the dryer is operating and minimizes the energy input required.

As dryers rarely operate at full rated capacity all of the time (eg. during shift work and periods of low demand), this energy management system can provide considerable savings.

The Advanced Controller is designed to accomodate Parker Airtek's PowerLoc Energy Management System. Flashes green when in energy saving mode.

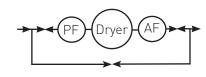
High Performance Components

Poppet Valve

TW41 - TW801

- Stainless steel body
- Stainless steel internals
- PTFE seal
- Air activated, spring return
- · Visual position indicator on exhaust valves
- ANSI Class VI shutoff
- Long service life
- Repair kits available
- 5 year valve warranty

Filter Package Schematic



Package "B" (Standard TW41 - TW801) Includes dryer with factory installed pre-filter and after-filter with system bypass



Regenerative Desiccant

M11

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

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Dryers

Desiccant Disposable

Refrigeration

Flow correction factors

Capacities are based upon:

- Maximum inlet air or ambient air temperature 120°F (49°C)
- Maximum working pressure: 150 psig (10.5 bar g) standard units for high maximum working pressure are available
- Minimum operating pressure: 80 psig (5.5 bar g)

Correction Factors

Refrigeration

Disposable

Desiccant

Regenerative Desiccant

Desiccant Heatless To obtain drying capacity at new conditions: (nominal capacity) x C1 x C2

Temperature Correction Fact	or							
Maximum inlet temperature	°F	90	95	100	105	110	115	120
(C1)	°C	32	35	38	41	43	46	49
	CF	1.17	1.15	1.00	0.87	0.76	0.66	0.58
Pressure Correction Factor								
Minimum inlet pressure	psi g	80	90	100	110	120	130	-
(C2)	bar g	5.5	6.2	6.9	7.6	8.3	9.0	-
	CF	0.83	0.91	1.00	1.09	1 17	1.26	-

Flows are at 100 psig inlet pressure, 100°F inlet temperature, and 100°F ambient temperature.

Weight includes desiccant dryer with basic controller FLA 2 amps, advanced controller FLA 3 amps.

Heatless Desiccant Air Dryers

TW Series	Part Number	A (length)	B (width)	C (depth)	Weight Ibs. (kg)
	TW41BN14NNN	49 (1245)	21 (533)	25 (635)	190 (86)
	TW56BN14NNN	65 (1651)	22 (559)	31 (787)	230 (104)
Starting land	TW76BN14NNN	80 (2032)	34 (864)	29 (737)	384 (174)
	TW101BN14NNN	79 (2007)	36 (914)	30 (762)	468 (212)
	TW131BN14NNN	79 (2007)	36 (914)	30 (762)	496 (225)
	TW201BN14NNN	81 (2057)	42 (1067)	34 (864)	692 (314)
	TW251BN14NNN	81 (2057)	45 (1143)	36 (914)	776 (352)
	TW301BN14NNN	81 (2057)	45 (1143)	36 (914)	796 (361)
	TW401BN14NNN	83 (2108)	48 (1219)	41 (1041)	1626 (738)
c Alexandre	TW501BN14NNN	83 (2108)	51 (1295)	43 (1092)	1735 (787)
	TW601BN14NNN	84 (2134)	50 (1270)	44 (1118)	1740 (789)
Inch (mm)	TW801BN14NNN	88 (2235)	56 (1422)	45 (1143)	2120 (962)

Repair and Service Kits

Dryer Model	Pre-Filter	Pre-Filter Element	After-Filter	After-Filter Element
TW41	AAP015CFNI	P015AA	AOP015CNFI	P015AO
TW56	AAP020DFNI	P020AA	AOP020DNFI	P020AO
TW76	AAP025DNFI	P025AA	AOP025DNMI	P025AO
TW101	AAP025ENFI	P025AA	AOP025ENMI	P025AO
TW131	AAP025ENFI	P025AA	AOP025ENMI	P025AO
TW201	AAP030GNFI	P030AA	AOP030GNMI	P030AO
TW251	AAP035GNFI	P035AA	AOP035GNMI	P035AO
TW301	AAP035GNFI	P035AA	AOP035GNMI	P035AO
TW401	AAP040HNFI	P040AA	AOP040HNMI	P040AO
TW501	AAP045INFI	P045AA	AOP045INMI	P045AO
TW601	AAP045INFI	P045AA	AOP045INMI	P045AO
TW801	AAP050INFI	P050AA	AOP050INMI	P050AO





Catalog 0700P-8 Parker Pneumatic



Air Preparation Products Contents - www.parker.com/pneu/frl

Air Preparation Products Airline Accessories	
Drains	N2-N4
Lockout Valves	N5-N11
AirGuard Protection System	N12-N13
Mufflers	N14-N19



Automatic Electrical Drain Valve – WDV3-G

The WDV3 Electrical Drain is designed to remove condensate from compressors, compressed air dryers and receivers up to any size, type or manufacturer.

Benefits

Drains

Lockout Valves

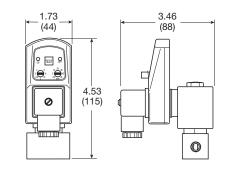
AirGuard

Mufflers

Ball Valve / Plug Valves

Quick Couplings

- Does not air-lock during operation
- Compressed air systems up to any size
- The direct acting valve is serviceable
- Suitable for all types of compressors
- Test (micro-switch) feature
- High time cycle accuracy
- Large (4.5mm) valve orifice



Automatic Electrical Drain Valve

Port Size	Primary Voltage	Weight (kg)	Model Number
1/4	120VAC	1.8 (0.8 kg)	WDV3-G12BL
1/4	230VAC	1.8 (0.8 kg)	WDV3-G22BL
3/8	120VAC	1.8 (0.8 kg)	WDV3-G13BL
3/8	230VAC	1.8 (0.8 kg)	WDV3-G23BL
1/2	120VAC	1.8 (0.8 kg)	WDV3-G14BL
1/2	230VAC	1.8 (0.8 kg)	WDV3-G24BL
1/2	24VDC	1.8 (0.8 kg)	WDV3-G34BL



Operating information

Operating pressure:	230 psig (16 bar)		
Ambient operating temperature:	34°F to 130°F (1.1°C to 54°C)		
Voltages:	115VAC, 230/50-60Hz, 24VDC		
Coil insulation:	Class H, 340°F (171.1°C)		
Current rating:	4mA maximum		
Timer –			
Open time	.5 to 10 sec., adjustable		
Cycle time	.5 to 45 min., adjustable		

Material specifications

Valve body	Brass / stainless steel
Enclosure (IP65 / NEMA 4)	ABS plastic
Internal parts Brass / stainless s	
Valve seals	FPM (Fluorocarbon)

Fittings



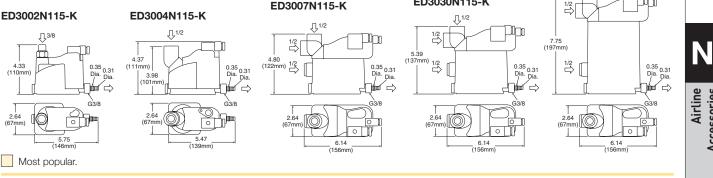
Airline Accessories



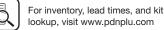
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Air Preparation Products Accessories

ED Zero Air Loss Condensate Drains Drains Zero air loss condensate drains are designed for economical removal of unwanted water, oil emulsions, and other liquids. These drains will only open when liquid is present and will not allow any compressed air to escape from the system. .ockout Valves **Operating information** Maximum pressure: 232 psig (16 bar) 35°F to 140°F (1.6°C to 60°C) Ambient operating temperature: Voltages optional - NPT 115/50-60Hz, standard **BSPP** ports 230/50-60Hz & 24VDC AirGuard Zero Air Loss Condensate Drains Capacity Compressor Port Size Aftercooler Filter **Drain Capacity** Refrigeration Dryer (scfm)** (scfm)* per Day (gal/liter) Model Number Service Kit (NPT) (scfm) 1 @ 3/8 (in), 1 @ 3/8 (out) 424 6 (22.7) ED3002N115-K SKED3000N115 Mufflers 1 @ 1/2 (in), 1 @ 3/8 (out) 13 (49.2) ED3004N115-K SKED3000N115 141 282 1,413 2 @ 1/2 (in), 1 @ 3/8 (out) 247 494 2,472 23 (87.1) ED3007N115-K SKED3000N115 2 @ 1/2 (in), 1 @ 3/8 (out) 1,059 2,119 10,594 100 (378.5) ED3030N115-K SKED3000N115 2 @ 1/2 (in), 1 @ 3/8 (out) 3,532 7,063 35,315 330 (1,249.2) ED3100N115-K SKED3000N115 Based on 100 PSI working pressure, air compressor inlet at 77°F (25°C) at 60% RH, air discharge temperature of 95°F (35°C) following the aftercooler, pressure Ball Valve / Plug Valves dewpoint of 37°F (2.8°C) after the refrigerated dryer. ** Condensate from aftercooler or refrigerated dryer to be drained upstream - only for residual oil content or small quantities of condensate. Note: A 6 ft, line cord will be included with each drain. Where Are Condensate Drains Used? Coupling Quick Products Hose Compressor with Aftercooler **Receiver Tank** Filter Air Dryer Drip Leg Removes the condensate that is collected Removes the condensate Removes the Removes the condensate Point-of-use applications: after the air cools in the aftercooler that is collected when condensate that is that is collected in the removes the condensate the air cools inside of the collected in the filter bowl air dryer from compressed air receiver tank pipes in a plant Fittings **Dimensions** ED3100N115-K ED3030N115-K]0____ ED3007N115-K 1/2 ED3002N115-K ED3004N115-K







N3

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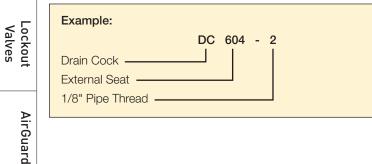
Accessories

Catalog 0700P-8 Drain Cocks

Drains

Drain cocks are manufactured in external seats. Hand tightening provides a metal - to - metal seal.

Drain Cock Nomenclature





Operating information

Operating pressure: Temperature ranges:

ssure: 150 psig (150 bar)

Internal seal External seal -65°F to 250°F (-53.9°C to 12.1°C)

Operating fluid:

-25°F to 250°F (-31.7°C to 12.1°C) Air, water, gas and certain other fluids

Note: Lubricant may not be compatible with some fluids, contact factory for special fluid requirements.

External	Seal -	Drain	Cock	DC60

Temperature F	Range: -25° to 2	50°F		
Part Number	Pipe Thread	C Hex	L	Μ
DC604-2*	1/8	7/16	.85	1.25
DC604-4	1/4	9/16	1.00	1.38
DC604-6*	3/8	11/16	1.22	1.68

*When assembled handle wings are down facing

Quick Couplings

Mufflers

Ball Valve / Plug Valves

Hose Products

Fittings



Airline Accessories



C

Air Preparation Products

Operating information

LV

15 to 145 PSIG

15 to 300 PSIG

15 to 300 PSIG

40°F to 175°F

Operating media: Clean, dry, compressed air (5 micron)

LVSS

15 to 300 PSIG

30°F to 175°F

Operating pressure:

Compact Standard

High flow

Operating

temperature:

Accessories

LV / LVSS Series

Lockout valves are installed in pneumatic drop legs, or individual pneumatic control lines. In accordance with OSHA procedures, lockout valves are used during maintenance and service procedures of pneumatically (air) operated equipment.

- Used for compliance with OSHA 29 CFR part 1910
- 1/4" to 2" pipe sizes. NPT or BSPP
- Yellow cast aluminum body with red handle or stainless steel (NACE MR0175 / ISO 15156)
- Inline or surface mountable
- Built in port for pressure verification to meet ANSI B11 and PMMI B155 requirements
- Fluorocarbon slipper seals for easy shifting, even after long periods of inactivity

Material specifications

Description	LV	LVSS
Body:	Cast aluminum alloy	Stainless steel
Handle:	Plastic	Stainless steel
Spool:	Aluminum	Stainless steel
Seals:	Carboxylated nitrile	Fluorocarbon
Detent spring:	Stainless steel	Stainless steel
Grease:	Magnalube G ⁺	Magnalube G ⁺

[†] Trademark Magnalube

Compact

T		Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
	3	1/4	3/8	41.8	40.7	0.9	LV2N3B
c)		3/8	3/8	60.7	60.7	0.9	LV3N3B

Standard

	Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
	3/8	3/4	107.7	81.1	2.0	LV3N6B
	1/2	3/4	161.4	90.9	2.0	LV4N6B
12	3/4	3/4	187.7	93.2	2.0	LV6N6B
-≥⊥ F→	3/4	1-1/4	297.7	204	3.2	LV6NAB
3	1	1-1/4	375	216	3.2	LV8NAB
	1-1/4	1-1/4	436.4	221	3.2	LVANAB
		3/8 1/2 3/4 3/4 3/4 1 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

High Flow

I	
e. 1	
1	10

Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
1-1/2	2	761.4	1156	8.2	LVBNCB
2	2	918.2	1186	8.2	LVCNCB

Stainless Steel

	Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
	1/4	1/4	48.6	47.2	3.8	LV2N2BSS
	3/8	1/2	131.6	142	6.0	LV3N4BSS
	1/2	1/2	131.6	142	6.0	LV4N4BSS
	3/4	1	325	386	13	LV6N8BSS
	1	1	325	386	13	LV8N8BSS
	1-1/2	2	889	1023	35	LVBNCBSS
10	2	2	889	1023	35	LVCNCBSS

NOTE: Exhaust flow rates calculated using inlet pressure 100 psig (6.7 bar), pressure drop 5 psi (0.34 bar), air temp 68°F (20°C), and 36% relative humidity. * For BSPP ports, change 4th digit from "N" to "B"

Most popular.

Lockout Valves

Drains



Fittings



N5

EZ Series

• Cv's from 3.7 to 13.7

remote exhausting

periods of inactivity

• Inline or surface mountable

Material specifications

body indicates EZ Series valve

• 3/4 and 1-1/4 inch: exhaust ports available

· Exhaust port threaded for installation of silencer or line for

• Yellow cast aluminum body with red handle. Blue dot on

Fluorocarbon slipper seals for easy shifting, even after long

Cast aluminum alloy

Carboxylated nitrile

Stainless steel

Magnalube G⁺

Plastic

Aluminum

	Drains	
Valves	Lockout	
	AirGuard	
	Mufflers	
Plug Valves	Ball Valve /	
Couplings	Quick	
Products	Hose	
	Fittings	

EE Oches	
The EZ series meets all the same standards as the LV series with the added feature of a soft start when opened. There are still 2 detented positions for the handle (push close, pull to open), but when pulled open, an adjustable needle valve controls the rate of pressure build-up. This can protect equipment during start up after maintenance. The EZ is distinguishable from the LV series by the blue dot on the label.	
 Features Combines lockout and soft-start functions in a single unit Used in systems for compliance with OSHA standard 29 CFR part 1910 3/8 Inch to 1-1/4 inch pipe sizes 	;

Operating information

Air Preparation Products

Accessories

Operating pressure: Standard Operating temperature:

15 to 300 PSIG 40°F to 175°F

Operating media: Clean, dry, compressed air (5 micron)

3/4" Exhaust Shown

[†] Trademark Magnalube

EZ Series

Detent spring:

Description Body:

Handle: Spool:

Seals:

Grease:

		Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
		3/8	3/4	136.4	181	2.1	EZ03NB6
		1/2	3/4	161.4	189	2.1	EZ04NB6
		3/4	3/4	181.9	216	2.1	EZ06NB6
		3/4	1-1/4	272.7	248	3.2	EZ06NBA
		1	1-1/4	311.4	273	3.2	EZ08NBA
		1-1/4	1-1/4	368.2	291	3.2	EZOANBA

NOTE: Exhaust flow rates calculated using inlet pressure 100 psig (6.7 bar), pressure drop 5 psi (0.34 bar), air temp 68°F (20°C), and 36% relative humidity. * For BSPP ports, change 5th digit from "N" to "B"

N

Most popular.



Catalog 0700P-8 Lockout Valves

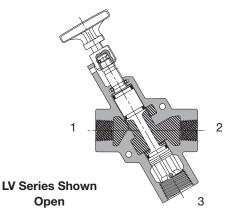
Applications

Lockout valves are installed in pneumatic drop legs, or individual pneumatic control lines (see Figure 1). In accordance with OSHA procedures, EZ valves are used during maintenance and service procedures of pneumatically (air) operated equipment. Prior to servicing, the red handle is pressed inward, blocking pressure and relieving all downstream air pressure. A padlock is installed through the locking hasp, preventing accidental actuation during the maintenance procedure. Following maintenance, the padlock is removed and the red handle is pulled outward, gradually returning air pressure to the system. (For complete Lockout / Tagout procedures, consult OSHA Standard 29 CFR Part 1910 in U.S. Federal Register/Vol. 54 No. 169, Friday, September 1, 1989 / Page 36644.)

LV / LVSS Operation

Normal Machine Operation – Valve Open

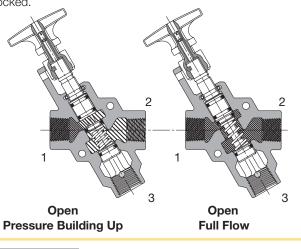
With the handle pulled outward. Inlet Port 1 is open to outlet Port 2. Exhaust Port 3 is blocked.



EZ Operation

Normal Machine Operation - Valve Open

When the red handle is pulled outward, the adjustable needle valve (accessed through the top of the handle) setting determines the rate of pressure buildup. When downstream pressure reaches the full flow described in the specifications below, Inlet Port 1 is open to outlet Port 2. Exhaust Port 3 is blocked.





N7

Air Preparation Products **Accessories**

Mounting

Valves can be inline mounted or surface mounted using the two mounting holes provided in the valve body. Mount valves in plain view with the handle oriented for accessibility.

Placement of Lockout Device

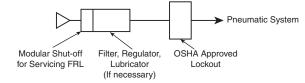
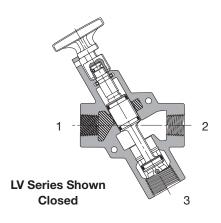


Figure 1.

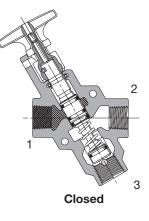
Lockout Operation - Valve Closed

With the handle pushed inward. Inlet Port 1 is blocked. Outlet Port 2 is open to Exhaust Port 3.



Lockout Operation - Valve Closed

When the red handle is pushed inward, the Inlet Port 1 is blocked. Downstream air is exhausted through Exhaust Port 3.



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

Fittings

Air Preparation Products **Accessories**

Corrosion resistant mufflers for harsh environments

Port		Threads	Dimensions Ir		
Size	Construction		Width	Length	Part Number
1/4	Stainless steel	Male. NPT	0.56 (14.2)	1.75 (44.5)	5500A2004
1/2	Stainless steel	Male, NPT	0.87 (22.1)	2.75 (69.7)	5500A4004
1	Stainless steel	Male, NPT	1.31 (33.3)	3.87 (98.3)	5500B6004
2	Nickel plated	Male, NPT	2.37 (60.2)	5.50 (139.7)	5500A9004*

* Nickel plated

Drains

Lockout Valves

AirGuard

Mufflers

High Flow Silencers

	Part Number *	ES25MC	ES37MC	ES50MC	ES75MC	ES100MC	ES125MC	ES150MC	ES200MC
	Pipe size	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
	Flow (scfm)	129	219	549	893	1013	1486	1580	1580
	Hex In. (mm)	0.63 (16)	1.00 (25)	1.00 (25)	1.62 (41)	1.62 (41)	_	_	2.99 (76)
	Length In. (mm)	1.85 (47)	3.31 (84)	3.31 (84)	4.56 (116)	4.56 (116)	5.69 (145)	5.69 (145)	7.68 (195)

* NPT ports standard, for BSPT ports, add a "B" after the "S"

Pop-up Pressure Indicator



Brass – Part # **988A30** – Can be used on all LV or EZ series to provide visual verification of line exhaust

Stainless – Part# **1155H30** – Can be used on SS LV series to provide visual verification of line exhaust

Pressure Switch



- Part # **PPS1-2C3-RHM** (DIN 9.4mm connector)
- Part # PPS1-2C3-RWL (18" leads)
- Signal verification of line exhaust
- Field adjustable set point

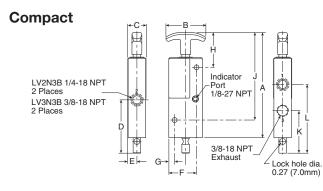


Airline Accessories



C

LZ Series, Exhaust Port - Compact, Standard, High Flow



Compact LV Series, 3/8" Exhaust Port Dimensions							
A	B	C	D	E	F		
6.50	2.25	1.05	3.04	.51	1.58		
(165)	(57)	(27)	(77)	(13)	(40)		
G	H	J	K	L			
.33	1.99	4.99	2.42	3.92			
(8)	(51)	(127)	(62)	(100)			

Inches (mm)

Air Preparation Products

Accessories

Compact LV Series, 3/4" Exhaust Port Dimensions

A 8.32 (211)	A 1 0.64 (16)	B 6.60 (168)	C 2.00 (51)	D 3.06 (78)	E 4.24 (108)
F 1.32 (111)	G 1.56 (40)	H 2.21 (56)			

Inches (mm)

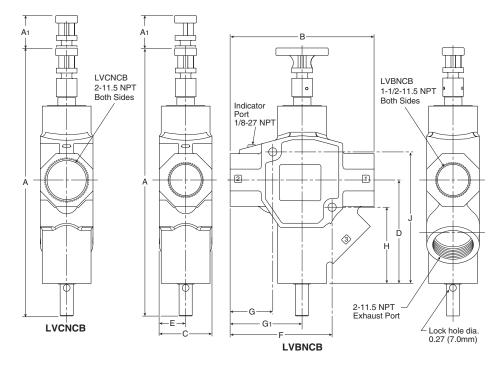
Compact LV Series, 1-1/4" Exhaust Port Dimensions

A 1 0.85	B 7.95	C 2.25	D	E
(22)	(202)	(57)	3.91 (99)	5.65 (144)
G 1.89 (48)	H 2.74 (70)			
	G 1.89	G H 1.89 2.74	G H 1.89 2.74	G H 1.89 2.74

Inches (mm)

High Flow

Standard



D

High Flow LV Series, 2" Exhaust Port Dimensions

A	A 1	B
14.82	1.87	8.20
(376)	(47)	(208)
C	D	E
3.00	5.89	1.50
(76)	(150)	(38)
F	G	G1
5.81	2.43	4.10
(148)	(62)	(104)
H 4.34 (110)	J 7.49 (190)	
Inches (m	m)	



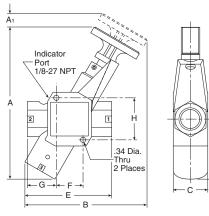
C

For inventory, lead times, and kit lookup, visit www.pdnplu.com

N9

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

imensions F 1 1.58 3) (40) 22 30) Tockont F L 1.58 (40) D2 D0 Tockont F L 1.58 (40) D2 D0 Tockont E



Mufflers

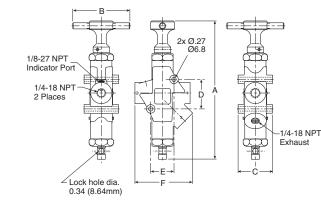
Hose Products

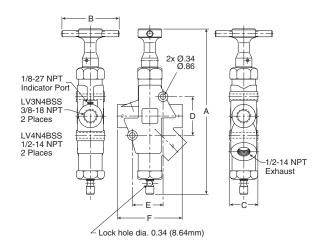
Fittings

Air Preparation Products Accessories

LZ Series, Exhaust Port - Compact, Standard, High Flow

Stainless Steel





Stainless Steel LV Series, 1/2" Exhaust Port Dimensions

D

2.40

(61)

Е

190

(48)

F

4.00

(102)

С

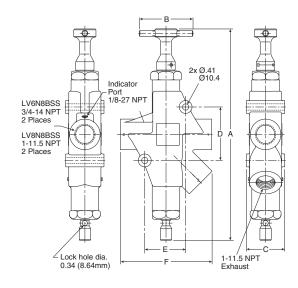
1.75

(45)

Stainless Steel LV Series, 1/4" Exhaust Port Dimensions

A	В	С	D	Е	F
8.47	3.50	2.11	1.81	1.43	3.54
(215)	(89)	(54)	(46)	(36)	(90)

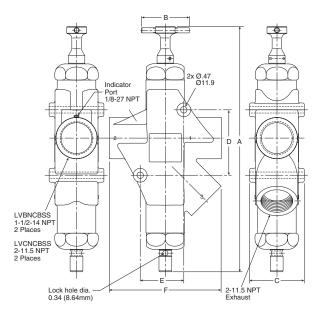
Inches (mm)



Stainless Steel LV Series, 1" Exhaust Port Dimensions

A	В	С	D	Е	F
13.80	3.50	2.50	3.49	2.67	5.99
(351)	(89)	(64)	(89)	(68)	(152)

Inches (mm)



Stainless Steel LV Series, 2" Exhaust Port Dimensions

A	В	С	D	Е	F
17.92	3.50	4.00	4.77	3.18	8.16
(455)	(89)	(102)	(121)	(81)	(207)

Inches (mm)

А

10.24

Inches (mm)

(260)

В

3.50

(89)

Mufflers

AirGuard

Drains

Lockout Valves

Ball Valve / Plug Valves

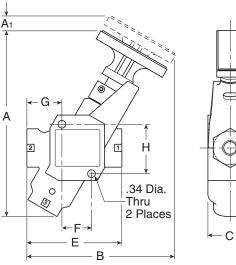
N





For inventory, lead times, and kit lookup, visit www.pdnplu.com

EZ Series, Exhaust Port - Standard Flow



← C →	

EZ 3/4"	Exhaust	Port	Dimensio	ons

A	A1	B	C	D
8.32	0.64	6.60	2.00	3.06
(211)	(16)	(168)	(51)	(78)
E	F	G	H	
4.24	1.32	1.56	2.21	
(108)	(111)	(40)	(56)	
la ele e e /				

Inches (mm)

EZ 1-1/4" Exhaust Port Dimensions

A	A 1	B	C	D				
9.91	0.85	7.95	2.25	3.91				
(252)	(22)	(202)	(57)	(99)				
E	F	G	H					
5.65	1.74	1.89	2.74					
(144)	(44)	(48)	(70)					
Inches (mm)								

Drains

Lockout Valves

AirGuard

Mufflers





AirGuard Protection System

Air Preparation Products **Accessories**

AirGuard

Mufflers

Ball Valve / Plug Valves

Couplings

Products

Hose

Fittings

Quick

Drains





Product Features:

- Maintenance Friendly
 Repair possible while plant is still operating
- Economic Competitive pricing
- Complies with EU Standard EN 983 - § 5.3.4.3.2
- Reliable and Tamperproof No adjustment necessary
- Complies with ISO Standard 4414 § 5.4.5.11.1
- Complies with MSHA Regulation 30CFR 56.13021, 57.13021 and 57.1730
- Lightweight Compact size
- Compatible with all Pneumatic Systems
- Can be used as a Flow Blocker
- TUV Approval No. 01-02-0145
- EU Registered Utility Model No. 0025 73 525
- Complies with OSHA Regulation Standard 29CFR 1926.302 (Partial)

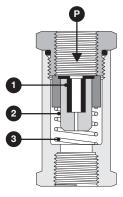
Protect your most important assets: your employees and their equipment!

The AirGuard offers simple but efficient protection of a broken compressed-air hose. The air supply is immediately shut off by the AirGuard, should the volume of air exceed a set value. This "value" is factory preset and is set to allow normal air consumption when using air tools.

Should the air consumption exceeds the set value, e.g. the air line is severed, then the internal piston instantly shuts off the main flow. An integral bleed hole allows some air to flow though. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.

Function:

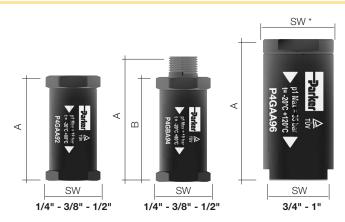
(P) is the inlet. Air passes the piston (1) and continues through the seat (3). The air flow, passing the piston, is slowed down by means of length wise grooves on the outer side of the piston. If the flow is too high, the air cannot pass the piston quickly enough, and the piston is forced against the spring (2) and towards the seat. The maximum flow is shown in the graph. If the value indicated is exceeded e.g. if the hose suddenly breaks - the air supply is automatically shut of. An integral bleed hole allows some air to flow though. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.





(Revised 06-18-20)

Air Preparation Products **Accessories**

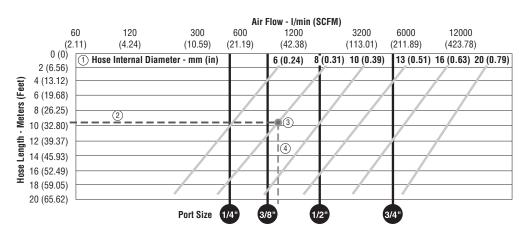


Weight and Dimensions metric (imperial)

Thread	Dimensions	Dimensions inch (mm)			Max. Inlet			P1 Inlet	P2 Outlet	Part Number
Connection	Α	В	SW	Weight oz. (g)	Pressure	Temp. Range	Material	Thread	Thread	NPT
1/4"	1.89 (48)	-	.87 (22)	1.06 (30)				Female	Female	P4GAA92
1/4"	2.28 (58)	49 (1.93)	.87 (22)	1.27 (36)	– – 255 psig (18 bar)	(00% to 00%) Distant Dal		Male	Female	P4GBA92
3/8"	2.32 (59)	-	1.10 (28)	2.05 (58)			Housing: Aluminum Piston: Polyacetal	Female	Female	P4GAA93
3/8"	2.80 (71)	59 (2.32)	1.10 (28)	2.19 (6²)				Male	Female	P4GBA93
1/2"	2.56 (65)	-	1.22 (31)	2.75 (78)				Female	Female	P4GAA94
1/2"	3.15 (80)	65 (2.56)	1.22 (31)	3.00 (85)	_			Male	Female	P4GBA94
3/4"	2.99 (76)	-	1.18/1.42* (30/36*)	3.77 (107)	_	4°F to 248°F	Housing: Aluminum	Female	Female	P4GAA96
1"	3.94 (100)	-	1.61/1.97* (41/50*)	10.58 (300)	500 psig (35 bar)	(-20°C to 120°C)	Piston: Aluminum	Female	Female	P4GAA98

How to Select the Optimal Size of an AirGuard

Information based on an inlet pressure of 7 bar (100 psig)



- a. Determine the internal diameter of the hose, tube or pipe being used ① (see specification Hose-internal Diameter, diagonal line).
- b. Determine the length of the hose, tube or pipe (2) (Hose length in meters).
- c. Define the intersection of point a and b, and mark a vertical line downwards. ③ ④ In the example chart (dot ③) and the dashed line (④).
- d. The next vertical black line, left of the intersection line (④) tells the correct AirGuard size (in inches).
- e. Important: Every flow value to the right of the respective vertical line (black) would activate the AirGuard in case of a bursting hose, pipe or tube. All AirGuard sizes right of the intersection line (④) are too big and will not close up.
- f. Example: Which air fuse should be used for a hose, pipe or tube bearing 8 mm inner diameter and 10 meters of length follow the 10 meter line (②) to the intersection point (dot ③). Now the next left black line marks the correct size.
- g. Result: The correct size in our example is the AirGuard 3/8"





Parker Hannifin Corporation Pneumatic Division Richland, Michigan www.parker.com/pneumatics Lockout Valves

Drains

AirGuard

Fittings

Ν

Airline Accessories

EM Series – Sintered Bronze Muffler / Filters

Muffler / filters effectively reduce air exhaust noises to an industry accepted level with minimum flow restriction. They protect valves, impact wrenches, screw drivers and other air tools by preventing dirt and other foreign matter from entering the system. Non-corrosive. Can be cleaned with many common solvents.

EM Series

Pipe Thread	Overall Length	Hex Size	Part Number
1/8"	1.00	7/16"	EM12
1/4"	1.32	9/16"	EM25
3/8"	1.54	11/16"	EM37
1/2"	1.85	7/8"	EM50
3/4"	2.29	1-1/6"	EM75
1"	2.91	1-5/16"	EM100
1-1/4"	3.25	1-11/16"	EM125
1-1/2"	3.69	2"	EM150



Operating information

Operating pressure:

Operating temperature:*

250 psig (Air) Cracking pressure 1 to 2 psig

* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180° require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

0°F to 300°F

Muffler / Flow Controls

Muffler / flow controls provide an acceptable exhaust noise level and effectively meter exhaust. Installed in valve exhaust ports, they control cylinder piston speeds throughout a wide range. The adjusting screw cannot be accidently blown out, can be locked to maintain setting. Brass and bronze construction. Clean with commonly used solvents.

Muffler / Flow Controls

Pipe Thread	Overall Length	Hex Size	Part Number
1/8"	1.15	9/16"	045020002
1/4"	1.42	1/2"	045040004
3/8"	1.49	11/16"	045060060
1/2"	1.77	7/8"	045080080
3/4"	1.98	1-1/16"	045120012
1"	2.15	1-5/16"	045160016

Operating information

Operating pressure:	250 psig (Air) Cracking pressure 1 to 2 psig
Operating temperature:*	0°F to 300°F
temperatures below freezing and	azing require moisture-free air. Ambient above 180° require lubricants especially mperatures. Pneumatic valves should be air.

Fittings

Most popular.



Drains

Lockout Valves

AirGuard

Mufflers

Ball Valve / Plug Valves

Quick Couplings

Hose Products

Breather Vents

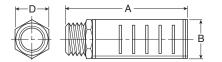
These low silhouette versions of the muffler / filter are useful where space is a problem and / or to prevent contamination. Use for vacuum relief or pressure equalization in gear boxes, oil tanks, reservoirs, etc.

Breather Vent

Pipe Thread	Overall Length	Hex Size	Part Number
1/8"	0.44	7/16"	047020002
1/4"	0.63	9/16"	047040004
3/8"	0.75	11/16"	047060006
1/2"	0.88	7/8"	047080008
3/4"	1.00	1-1/6"	047120012
1"	1.31	1-5/16"	047160016
1-1/4"	1.41	1-11/16"	047200020
1-1/2"	1.50	2"	047240024

ES Series – Silencer

The silencer is designed to give superior performance in noise control with a minimum effect on air efficiency. "Trimline" design allows location in the tightest places without extra plumbing and fittings. Fits directly into the exhaust port of more than 90% of present commercial valves. Slotted body permits rapid discharge of air without undesirable back pressure. Unique nylon screen element resists dirt buildup or clogging.



Accessories

Air Preparation Products



NOTE: Breather vents should not be used as exhaust mufflers.

Operating information						
Operating pressure:	150 psig (Air) max.					
Operating temperature:*	0°F to 300°F					
Material: Breather vent: Housing:	Sintered bronze, Zinc plated steel					
* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180° require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.						



Operating	information
Operating	information
- p	

Operating pressure: 250 psig (Air) max. Operating temperature:*

0°F to 300°F

* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180° require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

ES Series – Silencer

	Flow scfm	Dimensions			Part Numbers	
Pipe Thread	@ 100 psig inlet	A	В	D	NPTF	BSPT (R)
1/8"	115	1.85	0.81	0.63	ES12MC	ESB12MC
1/4"	129	1.85	0.81	0.63	ES25MC	ESB25MC
3/8"	219	3.31	1.26	1.00	ES37MC	ESB37MC
1/2"	549	3.31	1.26	1.00	ES50MC	ESB50MC
3/4"	893	4.56	2.01	1.62	ES75MC	ESB75MC
1"	1,013	4.56	2.01	1.62	ES100MC	ESB100MC
1-1/4"	1,486	5.69	2.88	_	ES125MC	ESB125MC
1-1/2"	1,580	5.69	2.88	_	ES150MC	ESB150MC

Most popular.



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

Drains

Lockout Valves

AirGuard

Mufflers

Ball Valve / Plug Valves

Airline Accessories

Stainless Steel Mufflers

Corrosion resistant mufflers for harsh environments

Dra	Stainless Steel Mufflers								
rains	Corrosion resistant mufflers for harsh environments								
		Port			Dimensions Ir	ı. (mm)			
		Size	Construction	Threads	Width	Length	Part Number		
- T		1/4	Stainless steel	Male. NPT	0.56 (14.2)	1.75 (44.5)	5500A2004		
ock /alv		1/2	Stainless steel	Male, NPT	0.87 (22.1)	2.75 (69.7)	5500A4004		
Lockout Valves		1	Stainless steel	Male, NPT	1.31 (33.3)	3.87 (98.3)	5500A6004		
		2	Nickel plated	Male, NPT	2.37 (60.2)	5.50 (139.7)	5500A9004*		
		-							

* Nickel plated

AirGuard

Mufflers

Ball Valve / Plug Valves

Quick Couplings

Hose Products

Fittings

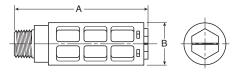


Air Preparation Products **Accessories**

ASN Air Line Silencer, Plastic

- Compact
- Lightweight
- Easy to Install
- Excellent Noise Reduction
- Protects Components from Contamination
- NPT and BSPT Threads Available

The plastic silencer is designed to give excellent noise reduction with a minimum effect on air efficiency. The "Trimline" design allows for locating the silencer in the tightest places without extra plumbing or fittings. Fits directly into the exhaust port of most commercial valves. Open surface area of element allows for rapid discharge of air without undesirable back pressure.



Operating information

Operating pressure:	0 to 150 psig (0 to 10 bar, 0 to 1034 kPa)
Operating temperature:	14°F to 140°F (-10°C to 60°C)

Material Specifications

BodyAcetal (Plastic)ElementPolyethylene

ASN Air Line Silencer, Plastic

Thread	А	в	Maximum Flow (scfm)	Sound Pressu	Sound Pressure Level (dBA)		r
Size	(mm)	_ (mm)	100 psig inlet	20 psig inlet	100 psig inlet	NPT	BSPT
M5	0.43 (11)	0.32 (8)	15	69	79	AS-5	
1/8"	1.57 (40)	0.63 (16)	51	69	81	ASN-6	AS-6
1/4"	2.56 (65)	0.83 (21)	124	67	84	ASN-8	AS-8
3/8"	3.35 (85)	0.98 (25)	247	83	98	ASN-10	AS-10
1/2"	3.74 (95)	1.18 (30)	370	69	96	ASN-15	AS-15

Quick Couplings

Drains

Lockout Valves

AirGuard

Mufflers

Ball Valve / Plug Valves

Most popular.



P6M G Thread Air Line Silencer, Plastic

- All Plastic Ultra Light Weight Versions
- High Noise Level Reduction

Drains

Lockout Valves

AirGuard

Mufflers

Low Back Pressure Generation

The plastic silencer is designed to give excellent noise reduction with a minimum effect on air efficiency. The "Trimline" design allows for locating the silencer in the tightest places without extra plumbing or fittings. Fits directly into the exhaust port of most commercial valves. Open surface area of element allows for rapid discharge of air without undesirable back pressure.

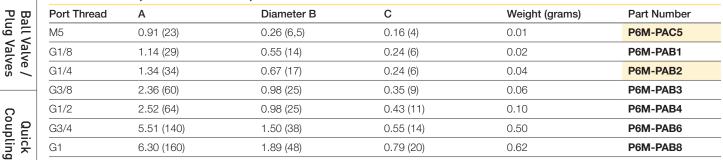


Operating information

Operating pressure:	0 to 246 psig (0 to 17 bar, 0 to 1700 kPa)				
Operating temperature: Plastic Metal	14°F to 176°F (-10°C to 80°C) 14°F to 165°F (-10°C to 74°C)				
Efficiency	92%				

P6M G Thread, Air Line Silencer, Plastic

C



Products Hose Fittings

Couplings





Air Preparation Products Accessories

ECS Reclassifier, Air Line Muffler

The ECS (Muffler-Reclassifier) eliminates unwanted oil mist and reduces exhaust noise from pneumatic valves, cylinders and air motors.

- 99.97% Oil Removal Efficiencies
- 25 dBA Noise Attenuation
- 1/2" NPT and 1" NPT
- Disposable Units
- Continuous or Plugged Drain Option
- Metal Retained Construction
- Fast Exhaust Time

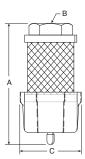
Improve Overall Plant Environment

Exhaust oil mist and noise pollution have a direct impact on worker productivity.

Oil aerosol mist from lubricators and compressors is pervasive and enters the industrial plant environment through the exhaust ports of valves, cylinders and air motors. This rapidly expanding exhaust also produces sudden and excessive noise.

The ECS (Muffler-Reclassifier) is 99.97% efficient at removing the oil aerosols. The ECS also acts as a silencer to lower the dBA levels below O.S.H.A. requirements.

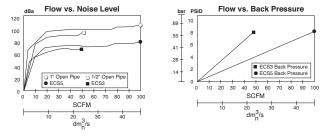
The result is a cleaner, guieter environment which equates to greater work productivity and safety.



ECS Reclassifier, Air Line Muffler

Thread Size	А	В	С	Part Number
1/2	5.30 (135mm)	1/2" NPT	2.57 (65mm)	ECS3
1	7.30 (185mm)	1" NPT	2.57 (65mm)	ECS5

Performance Characteristics



Most popular.





Operating information	
Maximum line pressure:	100 psig (6.8 bar)
Maximum operating temperature:	125°F (52°C)

Operation

Compressor oils and lubricating oils are exhausted from valves, cylinders and air motors into the ECS. Oil aerosols are "coalesced" into larger droplets and gravity pulls them into the attached drain sump. The sump can then be drained manually or by using a 1/4" ID plastic tube drain. The air flowing into the ECS is also muffled or silenced as it enters the inside of the ECS and passes through the filter media into the atmosphere.

Proven Technology

The ECS units are constructed from the same materials that go into our oil removal coalescing filter elements.

The seamless design insures media uniformity and strength. This proven technology provides high coalescing efficiency with low pressure drop.

The filter media is supported by cylindrical perforated steel retainers both inside and out. These retainers, fully plated for excellent corrosion resistance, give the ECS units high rupture strength in either flow direction. These filters can also be used as high efficiency inlet or bypass filters for vacuum pumps, or breather elements to protect the air above critical process liquids.

ECS3 / ECS5

The ECS solves two problems inherent in compressed air exhaust from valves, cylinders and air motors - oil mist removal and noise abatement.

The ECS will improve your industrial plant environment, thereby improving worker productivity.

Ball Valve / Plug Valves



Drains .ockout Valves

AirGuard

Mufflers





Catalog 0700P-8 Parker Pneumatic	(Revised 06-24-20)	Part Number Index, Safety Guide, Offer of Sale	
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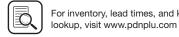
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Parker



For inventory, lead times, and kit

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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 or property.
- **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 <u>www.iso.org</u> 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 <u>www.parker.com</u>, 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.
- 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 <u>www.parker.com</u>.
- **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. Failure to follow routine maintenance can lead to a reduction in the expected service life of the product and can result in damage to the system, personal injury and/or property damage.
- 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 website 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 including but not limited to swelling, bulging, creaks or leaks.
 - · 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. Failure to follow routine service can lead to a reduction in the expected service life of the product and can result in damage to the system, personal injury and/or property damage. 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.

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PARKER-HANNIFIN CORPORATION OFFER OF SALE

1. <u>Definitions</u>. As used herein, the following terms have the meanings indicated.

"Buyer" means any customer receiving a Quote for Products.

"Buyer's Property" means any tools, patterns, plans, drawings, designs, specifications materials, equipment, or information furnished by Buyer, or which are or become Buyer's property.

"Confidential Information" means any technical, commercial, or other proprietary information of Seller, including, without limitation, pricing, technical drawings or prints and/or part lists, which has been or will be disclosed, delivered, or made available, whether directly or indirectly, to Buyer.

"Goods" means any tangible part, system or component to be supplied by Seller.

"Intellectual Property Rights" means any patents, trademarks, copyrights, trade dress, trade secrets or similar rights.

"Products" means the Goods, Services and/or Software as described in a Quote.

"Quote" means the offer or proposal made by Seller to Buyer for the supply of Products.

"Seller" means Parker-Hannifin Corporation, including all divisions, subsidiaries and businesses selling Products under these Terms.

"Seller's IP" means patents, trademarks, copyrights, or other intellectual property rights relating to the Products, including without limitation, names, designs, images, drawings, models, software, templates, information, any improvements or creations or other intellectual property developed prior to or during the relationship contemplated herein.

"Services" means any services to be provided by Seller.

"Software" means any software related to the Goods, whether embedded or separately downloaded.

"Special Tooling" means equipment acquired by Seller or otherwise owned by Seller necessary to manufacture Goods, including but not limited to tools, jigs, and fixtures.

"Terms" means the terms and conditions of this Offer of Sale.

2. Terms. All sales of Products by Seller will be governed by, and are expressly conditioned upon Buyer's assent to, these Terms. These Terms are incorporated into any Quote provided by Seller to Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic data interface or other electronic commerce shall constitute acceptance of these Terms. Seller objects to any contrary or additional terms or conditions of Buyer. Reference in Seller's order acknowledgement to Buyer's purchase order or purchase order number shall in no way constitute an acceptance of any of Buyer's terms or conditions of purchase. Any Quote made by Seller to Buyer shall be considered a firm and definite offer and shall not be deemed to be otherwise despite any language on the face of the Quote. Seller reserves all rights to accept or reject any purported acceptance by Buyer to Seller's Quote if such purported acceptance attempts to vary the terms of the Quote. If Seller ships Products after Buyer issues an acceptance to the Quote, any additional or different terms proposed by Buyer will not become part of the parties' business relationship unless agreed to in a writing that is signed by an authorized representative of Seller, excluding email correspondence. If the transaction proceeds without such agreement on the part of Seller, the business relationship will be governed solely by these Terms and the specific terms in Seller's Quote.

3. Price; Payment. The Products set forth in the Quote are offered for sale at the prices indicated in the Quote. Unless otherwise specifically stated in the Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices for any reason and at any time by giving ten (10) days prior written notice. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2020). All sales are contingent upon credit approval and full payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Under any circumstances, Buyer may not withhold or suspend payment of any amounts due and payable as a deduction, set-off or recoupment of any amount, claim or dispute with Seller. Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law. Seller reserves the right to require advance payment or provision of securities for first and subsequent deliveries if there is any doubt, in Seller's sole determination, regarding the Buyer's creditworthiness or for other business reasons. If the requested advance payment or securities are not provided to Seller's satisfaction, Seller reserves the right to suspend performance or reject the purchase order, in whole or in part, without prejudice to Seller's other rights or remedies, including the right to full compensation. Seller may revoke or shorten any payment periods previously granted in Seller's sole determination. The rights and remedies herein reserved to Seller are cumulative and in

addition to any other or further rights and remedies available at law or in equity. No waiver by Seller of any breach by Buyer of any provision of these terms will constitute a waiver by Seller of any other breach of such provision.

4. <u>Shipment; Delivery; Title and Risk of Loss</u>. All delivery dates are approximate, and Seller is not responsible for damages or additional costs resulting from any delay. All deliveries are subject to our ability to procure materials from our suppliers. 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 carrier at Seller's facility. Unless otherwise agreed prior to shipment and for domestic delivery locations only, Seller will select and arrange, at Buyer's sole expense, the carrier and means of delivery. When Seller selects and arranges the carrier and means of delivery, freight and insurance costs for shipment to the designated delivery location will be prepaid by Seller and added as a separate line item to the invoice. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions. Buyer shall not return or repackage any Products without the prior written authorization from Seller, and any return shall be at the sole cost and expense of Buyer.

5. Warranty. The warranty for the Products is as follows:

(i) Goods are warranted against defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of use, whichever occurs first; (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the date of completion of the Services; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: EXEMPTION DISCLAIMER CLAUSE: OF WARRANTY, CONDITIONS, REPRESENTATIONS: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY, CONDITION, AND REPRESENTATION, PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, CONDITIONS, AND REPRESENTATIONS, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE RELATING TO DESIGN, NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR FAULT-TOLERANT, OR THAT BUYER'S USE THEREOF WILL BE SECURE OR UNINTERRUPTED, UNLESS OTHERWISE AUTHORIZED IN WRITING BY SELLER. THE SOFTWARE SHALL NOT BE USED IN CONNECTION WITH HAZARDOUS OR HIGH-RISK ACTIVITIES OR ENVIRONMENTS. EXCEPT AS EXPRESSLY STATED HEREIN, ALL PRODUCTS ARE PROVIDED "AS IS"

6. <u>Claims; Commencement of Actions</u>. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance 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.

7. <u>LIMITATION OF LIABILITY</u>. IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCTS, RE-PERFORM THE SERVICES, OR REFUND THE PURCHASE PRICE PAID WITHIN A REASONABLE PERIOD OF TIME. IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING ANY LOSS OF REVENUE OR PROFITS, 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 PAID FOR THE PRODUCTS.

8. <u>Confidential Information</u>. Buyer acknowledges and agrees that Confidential Information has been and will be received in confidence and will remain the property of Seller. Buyer further agrees that it will not use Seller's Confidential Information for any purpose other than for the benefit of Seller and shall return all such Confidential Information to Seller within thirty (30) days upon request.

9. Loss to Buyer's Property. Buyer's Property will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using Buyer's Property.

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Also, Seller shall not be responsible for any loss or damage to Buyer's Property while it is in Seller's possession or control.

10. <u>Special Tooling</u>. Seller may impose a tooling charge for any Special Tooling. Special Tooling shall be and remain Seller's property. In no event will Buyer acquire any interest in the Special Tooling, even if such Special Tooling has been specially converted or adapted for manufacture of Goods for Buyer 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 owned by Seller in its sole determination at any time.

11. <u>Security Interest</u>. To secure payment of all sums due from Buyer, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms 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 Seller's security interest.

12. <u>User Responsibility</u>. Buyer, through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and any technical information provided with the Quote or the Products, such as Seller's instructions, guides and specifications. If Seller provides options of or for Products based upon data or specifications provided by Buyer, Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event Buyer is not the end-user of the Products, Buyer will ensure such end-user complies with this paragraph.

13. Use of Products, Indemnity by Buyer. Buyer shall comply with all instructions, guides and specifications provided by Seller with the Quote or the Products. If Buyer uses or resells the Products in any way prohibited by Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such use, resale, or non-compliance is at Buyer's sole risk. Further, 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, intellectual property infringement or any other claim, arising out of or in connection with: (a) improper selection, design, specification, application, or any misuse of Products; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of Buyer's Property; (d) damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing, tampering with or repackaging the Products; or (e) Buyer's failure to comply with these Terms, including any legal or administrative proceedings, collection efforts, or other actions arising from or relating to such failure to comply. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

14. Cancellations and Changes. Buyer may not cancel or modify, including but not limited to movement of delivery dates for the Products, 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 and any additional expense. Seller, at any time, may change features, specifications, designs and availability of Products.

<u>15. Assignment</u>. Buyer may not assign its rights or obligations without the prior written consent of Seller.

16. Force Maieure. Seller is not liable for delay or failure to perform any of its obligations by reason of any events or circumstances beyond its reasonable control. Such circumstances include without limitation: accidents, labor disputes or stoppages, government acts or orders, acts of nature, pandemics, epidemics, other widespread illness, or public health emergency, cyber related disruptions, cyber-attacks, ransomware sabotage, delays or failures in delivery from carriers or suppliers, shortages of materials, sudden increases in the price of raw material or components, shutdowns or slowdowns affecting the supply of raw materials or components, or the transportation thereof, oil shortages or oil price increases, energy crisis, energy or fuel interruption, war (whether declared or not) or the serious threat of same, riots, rebellions, acts of terrorism, embargoes, fire or any reason whether similar to the foregoing or otherwise. Seller will resume performance as soon as practicable after the event of force majeure has been removed. All delivery dates affected by an event of force majeure shall be tolled for the duration of such event of force majeure and rescheduled for mutually agreed dates as soon as practicable after the event of force majeure ceases to exist. The right to allocate capacity is in the Seller's sole discretion. An event of force majeure shall not include

financial distress, insolvency, bankruptcy, or other similar conditions affecting one of the parties, affiliates and/or subcontractors. An event of force majeure in the meaning of these Terms means any circumstances beyond Seller's control that permanently or temporarily hinders performance, even where that circumstance was already foreseen. Buyer shall not be entitled to cancel any orders following its claim of an event of force majeure.

17. Waiver and Severability. Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice either party's right to enforce that provision in the future. Invalidation of any provision of these Terms shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

18. <u>Duration</u>. Unless otherwise stated in the Quote, any agreement governed by or arising from these Terms shall: (a) be for an initial duration of one (1) year; and (b) shall automatically renew for successive one-year terms unless terminated by Buyer with at least 180-days written notice to Seller or if Seller terminates the agreement pursuant to Section 19 of these Terms.

19. <u>Termination</u>. Seller may, without liability to Buyer, terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms, (b) becomes or is deemed insolvent, (c) appoints or has appointed a trustee, receiver or custodian for all or any part of Buyer's property,(d) files a petition for relief in bankruptcy on its own behalf, or one is filed against Buyer by a third party, (e) makes an assignment for the benefit of creditors; or (f) dissolves its business or liquidates all or a majority of its assets.

20. <u>Ownership of Rights</u>. Buyer agrees that (a) Seller (and/or its affiliates) owns or is the valid licensee of Seller's IP and (b) the furnishing of information, related documents or other materials by Seller to Buyer does not grant or transfer any ownership interest or license in or to Seller's IP to Buyer, unless expressly agreed in writing. Without limiting the foregoing, Seller retains ownership of all Software supplied to Buyer. In no event shall Buyer obtain any greater right in and to the Software than a right in a license limited to the use thereof and subject to compliance with any other terms provided with the Software. Buyer further agrees that it will not, directly or through intermediaries, reverse engineer, decompile, or disassemble any Software (including firmware) comprising or contained within a Product, except and only to the extent that such activity may be expressly permitted, either by applicable law or, in the case of open source software, the applicable open source license.

21. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable for infringement of any Intellectual Property Rights except as provided in this Section. 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 a third-party claim that one or more of the Products infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by Seller to Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer (including Seller's use of Buyer's Property); or (ii) directed to any Products for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for claims of infringement of Intellectual Property Rights.

22. <u>Governing Law</u>. These Terms, the terms of any Quote, 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 the sale and delivery of the Products.

23. <u>Entire Agreement</u>. These Terms, along with the terms set forth in the Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale and purchase. In the event of a conflict between any term set forth in the Quote and these Terms, the terms set forth in the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with





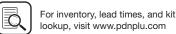
For inventory, lead times, and kit lookup, visit www.pdnplu.com

respect to the subject matter shall have no effect. No modification to these Terms will be binding on Seller unless agreed to in a writing that is signed by an authorized representative of Seller, excluding email correspondence, 'clickwrap' or other purported electronic assent to different or additional terms. Sections 2-25 of these Terms shall survive termination or cancellation of any agreement governed by or arising from these Terms.

24. No 'Wrap' Agreements/No Authority to Bind. Seller's clicking any buttons or any similar action, such as clicking "I Agree" or "Confirm," to utilize Buyer's software or webpage for the placement of orders, is NOT an agreement to Buyer's Terms and Conditions. NO EMPLOYEE, AGENT OR REPRESENTATIVE OF SELLER HAS THE AUTHORITY TO BIND SELLER BY THE ACT OF CLICKING ANY BUTTON OR SIMILAR ACTION ON BUYER'S WEBSITE OR PORTAL.

25. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer represents that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Products from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws. Buyer agrees to promptly and reliably provide Seller all requested information or documents, including end-user statements and other written assurances, concerning Buyer's ongoing compliance with Export Law.





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