

# **Prep-Air®** II Miniature FRL Series

Catalog 0714P/USA



# **MARNING**

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# **CAUTION:**

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

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

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

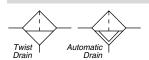
Metal bowl guards are recommended for all applications.

# **(!)** CAUTION:

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



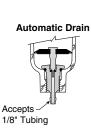
# 14F Filters - Miniature

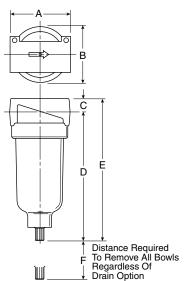




#### **Features**

- · Excellent water removal efficiency.
- Unique deflector plate that creates swirling of the air stream ensuring maximum water and dirt separation.
- Easily disassembled for servicing without the use of tools.
- Interchangeable twist and automatic pulse drains.
- High Flow: 1/8" 22 SCFM<sup>§</sup>
   1/4" 24 SCFM<sup>§</sup>





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

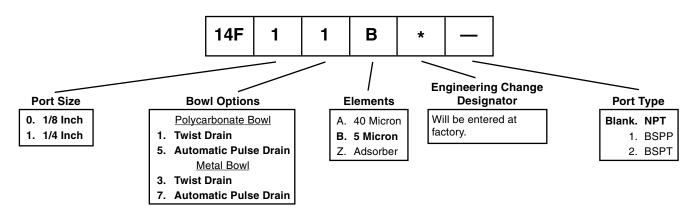
14F Filter Dimensions			
Α	В	С	
1.69	1.56	0.39	
(43)	(39.6)	(10)	
D	D†	E	
3.82	3.67	4.21	
(97)	(93)	(107)	
E†	F		
4.06	1.60		
(103)	(41)		

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

- ‡ For polycarbonate bowl see Caution on page 1.
- § SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

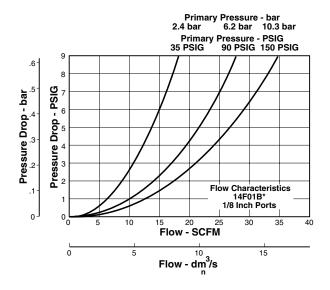
#### Inches (mm)

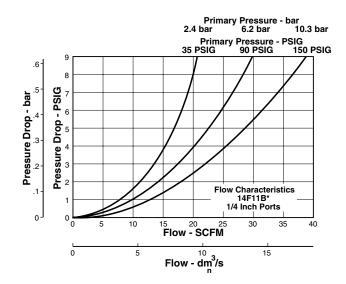
# **Ordering Information**





<sup>†</sup> With Automatic Pulse Drain





#### 14F Filter Kits & Accessories

Bowl Kits –			
Poly Bowl - Automatic Pulse Drain	PS408P		
Twist Drain	PS404P		
Metal Bowl - Automatic Pulse Drain	PS451P		
Twist Drain	PS447BP		
Filter Element Kits –			
40 Micron	PS401P		
5 Micron	PS403P		
5 Micron Cartridge Kit	PS407P		
Adsorber	PS452P		
Mounting Bracket Kit PS417BP			

#### **Specifications**

Automatic Pulse Drain Tube Ba	<b>rb</b> 1/8 Inch
Bowl Capacity	1 Ounce
Port Threads	1/8, 1/4 Inch
<b>Pressure &amp; Temperature Rating</b>	s –
Polycarbonate Bowl -	0 to 150 PSIG (0 to 10.3 bar) 32°F to 125°F (0°C to 52°C)
Metal Bowl -	0 to 250 PSIG (0 to 17.2 bar) 32°F to 175°F (0°C to 80°C)
Automatic Pulse Drain -	10 to 250 PSIG (0.7 to 17.2 bar) at 125°F (52°C) or less
Weight	0.41 lb. (0.18 kg)
Matariala at Oanatana	
Materials of Construct	
Body	Zinc
Body	Zinc Zinc Transparent Polycarbonate
Bowls	Zinc Zinc Transparent Polycarbonate etal (Zinc) Bowl w/o Sight Gauge
Body	Zinc Zinc Transparent Polycarbonate etal (Zinc) Bowl w/o Sight Gauge
Body	Zinc Transparent Polycarbonate letal (Zinc) Bowl w/o Sight Gauge ffle Plastic
Body	Zinc Zinc Transparent Polycarbonate etal (Zinc) Bowl w/o Sight Gauge
Body	
Body	
Body	Zinc Transparent Polycarbonate letal (Zinc) Bowl w/o Sight Gauge ffle Plastic Plastic Nitrile Nitrile Washers Aluminum
Body	Zinc Transparent Polycarbonate letal (Zinc) Bowl w/o Sight Gauge ffle Plastic Plastic Nitrile Nitrile Washers Aluminum



Seals ......Nitrile

Adsorber (Optional) ..... Activated Charcoal

# 10F Coalescing Filters - Miniature



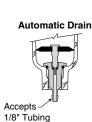
#### Features

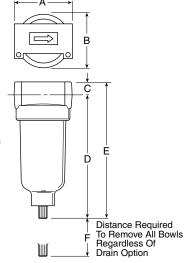
- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic pulse drains.
- Grade 6 Element, 99.97% DOP Efficiency.
- High Flow: Grade 6 Element

1/8" - 17 SCFM § 1/4" - 20 SCFM §

Grade 10 Element 1/8" - 19 SCFM §

1/4" - 24 SCFM§





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

Dimensions			
Α	В	С	
1.69	1.56	0.39	
(43)	(39.6)	(10)	
D	D†	E	
3.82	3.67	4.21	
(97)	(93)	(107)	
E†	F		
4.06	1.60		
(103)	(41)		

10F Coalescing Filter

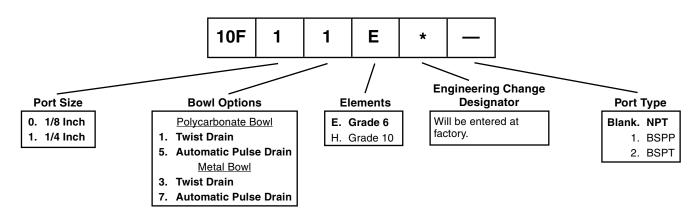
Standard part numbers shown bold, with Grade 6 Elements (for Grade 10 Elements, replace "E" with "H" in the 6th position). For other models refer to ordering information below.

- ‡ For polycarbonate bowl see Caution on page 1.
- § SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

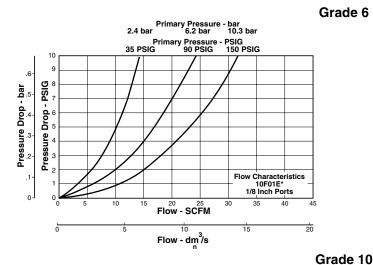
Inches	(mm)
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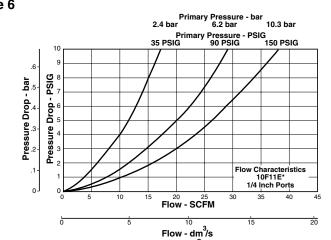
<sup>†</sup> With Automatic Pulse Drain

#### **Ordering Information**

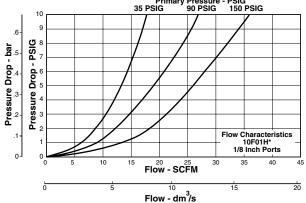


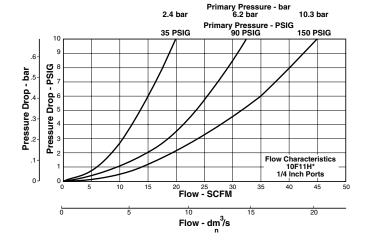






#### Primary Pressure - bar 2.4 bar 6.2 bar 10.3 bar Primary Pressure - PSIG 35 PSIG 90 PSIG 150 PSIG





#### 10F Coalescing Filter Kits & Accessories

BOWI KITS –	
Poly Bowl - Automatic Pulse Drain I	PS408P
Twist Drainl	PS404P
Metal Bowl -Automatic Pulse Drain	PS451P
Twist Drain PS	S447BP
Filter Element Kits - Grade 6 (Standard)	PS446P
Grade 10 (Optional)	PS456P
Mounting Bracket Kit PS	S417BP

# Specifications

Automatic Pulse Drain Tube Barb 1/8 Inch
Bowl Capacity 1 Ounce
Operation –
Normal Operating Pressure Drop2 PSIG
Maximum Recommended Pressure Drop 10 PSIG
(Element should be replaced)
Port Threads
Pressure & Temperature Ratings –
Polycarbonate Bowl – 0 to 150 PSIG (0 to 10.3 bar)
32°F to 125°F (0°C to 52°C)
Metal Bowl – 0 to 250 PSIG (0 to 17.2 bar)
32°F to 175°F (0°C to 80°C)
<b>Weight</b> 0.41 lb. (0.18 kg)
Materials of Construction
Body Zinc
Bowls Transparent Polycarbonate
Metal (Zinc) Without Sight Gauge
Drains - Twist Drain -
Body & StemPlastic
SealsNitrile
Automatic Pulse Drain –
Piston & Seals Nitrile
Observe Ossat Aslandary O Massland

# **Media Specifications**

G r	D.O.P. Coalescing	Maximum		e Drop (PSID)² ated Flow	Particulate
a d e	Efficiency 0.3 to 0.6 Micron Particles	Oil Carryover <sup>1</sup> PPM w/w	Media Dry	Media Wet With 10-20 wt. oil	Micron Rating
6	99.97% 95%	0.008	1.0	2-3 0.5	0.01 0.7
1 T	10         95%         0.85         0.5         0.5         0.7           ¹ Tested per BCAS 860900 at 40 ppm inlet.         ² Add dry + wet for total pressure drop.				

D.O.P. = Dioctylphthalate



Stem, Seat, Adaptor & Washers ...... Aluminum

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

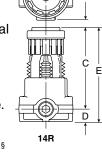
Element Holder .....

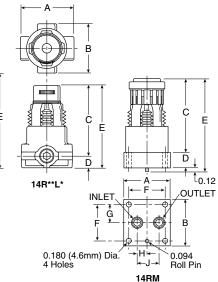
# 14R Regulators - Miniature



#### **Features**

- Unbalanced poppet standard.
- Solid control piston with lip seal for extended life.
- Non-rising adjusting knob.
- Compact, 2.88 inch (73.2mm) high by 1.65 inch (42mm) wide.
- · Easily serviced.
- High Flow: 1/8" 13 SCFM § 1/4" 15 SCFM §





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

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

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

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

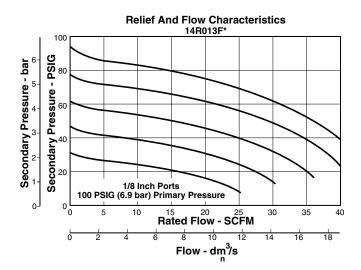
14R Regulator Dimensions							
14R	<b>A</b> 1.65 (42)	<b>B</b> 1.56 (40)	2.50 (63.5)	<b>D</b> 0.38 (10)	<b>E</b> 2.88 (73)		
14R**L*	<b>A</b> 1.65 (42)	<b>B</b> 1.56 (40)	<b>C</b> 2.28 (57.9)	<b>D</b> 0.38 (10)	<b>E</b> 2.68 (68)		
14RM	<b>A</b> 1.50 (38)	<b>B</b> 1.50 (38)	2.36 (60)	<b>D</b> 0.50 (13)	<b>E</b> 2.98 (73)		
IAUM	<b>F</b> 1.188 (30)	<b>G</b> 0.594 (15)	<b>H</b> 0.325 (8)	<b>J</b> 0.725 (18)			

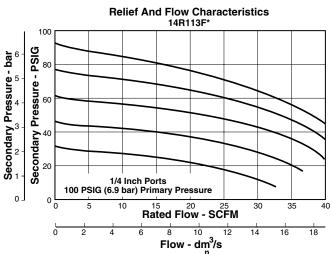
Inches (mm)

Ordering Info	ıs	14R	1	13	F	*	_	_			
Port Size	Pressur	re Range		Relie	ef		Port Typ	e	Options		Preset / Pressure Limited
0. 1/8 Inch Pipe, 1/8 Inch Gauge Port 1. 1/4 Inch Pipe, 1/8 Inch Gauge Port B. 1/4 Inch Pipe, 1/4 Inch Gauge Port C. 1/8 Inch Pipe, No Gauge Port D. 1/4 Inch Pipe, No Gauge Port	Yellow Knob 10. 30 PSIG 11. 60 PSIG 12. 15 PSIG 13. 125 PSIG	Black Kr B0. 30 P B1. 60 P B2. 15 P B3. 125 F Gauge B5. 30 P B6. 60 P B7. 15 P B8. 125	SIG SIG SIG SIG SIG SIG SIG SIG SIG	F. Relievir G. Non-Rel	lieving			P	Blank. L.† Preset Non-Adjustal P.† Preset Adjustal S.† Pressur Limiter Max. Adjustal T.† Pressur Limiter Max. Adjustal Adjustal Adjustal	ble ble e ble e on- ble	Blank. None  XXX* Preset Pressure  XXX* Pressure Limited  * Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory. (Example:
M. Manifold Mounting  Spring Type by Preset For Preset / Limited For Preset / Limited For Preset / Limited	d Pressure 10 to d Pressure 26 to	25 use 30 50 use 60	PSI Spri	ng				†	Inlet Pressure is 100 PSIG. For oth pressures, contact factory.	ner	065 = 65 PSIG)

# Technical Specifications – 14R

#### **Technical Information**





#### **CAUTION:**

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

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

#### **⚠ WARNING**

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

#### 14R Regulator Kits & Accessories

Body Service Kit – Unbalanced	PS424BP
Bonnet Assembly Kit	L01369
Gauges - 30 PSIG, 1/8" NPT (0 to 2.1 bar)	P530156
60 PSIG, 1/8" NPT (0 to 4.1 bar)	P530154
160 PSIG, 1/8" NPT (0 to 11.0 bar)	P77413
60 PSIG, 1/4" NPT (0 to 4.1 bar)	P781641
160 PSIG, 1/4" NPT (0 to 11.0 bar)	P781642
Mounting Bracket Kit (Includes Panel Mount Nut)	PS417BP
Panel Mount Nuts -Plastic	P78652
Panel Mount Nuts -Plastic	
	P01531
Metal	P01531 PS422P
Metal  Service Kits – Non-Relieving	P01531 PS422P PS423P
Metal	P01531 PS422P PS423P P01176
Metal	P01531 PS422P PS423P P01176

#### **Specifications**

Gauge Ports (2)(Can be used for Full Flow)	1/8 or 1/4 Inch
Port Threads	1/8, 1/4 Inch
Pressure & Temperature Ratings –	0 to 300 PSIG (0 to 20.7 bar) 32°F to 125°F (0°C to 52°C)
Secondary Pressure Ranges –	
Standard Pressure	2 to 125 PSIG (0 to 8.6 bar)
Medium Pressure	1 to 60 PSIG (0 to 4.1 bar)
Medium Pressure	1 to 30 PSIG (0 to 2.1 bar)
Low Pressure	1 to 15 PSIG (0 to 1 bar)
Weight - 14R, 14RM, 14**L*	0.3 lb. (0.14 kg)

#### **Materials of Construction**

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



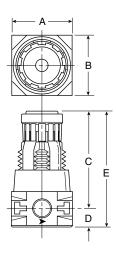
# P3A-R Regulators - Miniature



# MAC FEATURE IN PROPERTY OF THE PARTY OF THE

#### **Features**

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



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

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

NOTE: 1.218 Dia. (31mm) hole required for panel mounting. § SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 10 PSIG pressure drop.

P3A-R Regulator Dimensions						
Α	В	С	D			
1.57	1.57	2.46	0.46			
(40)	(40)	(63)	(12)			
E						
2.92						
(74)						

Inches (mm)

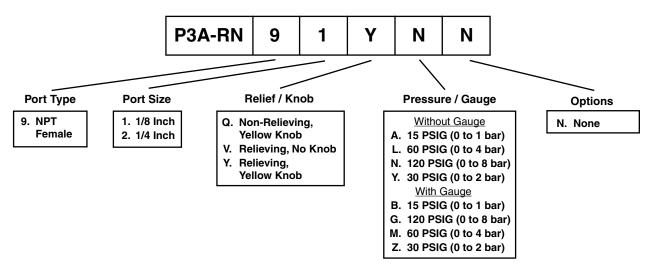
#### **⚠ WARNING**

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

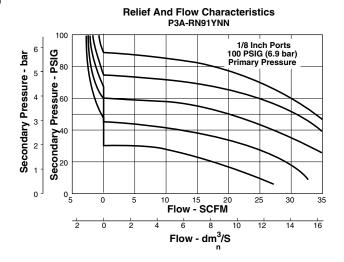
Do not exceed maximum primary pressure rating.

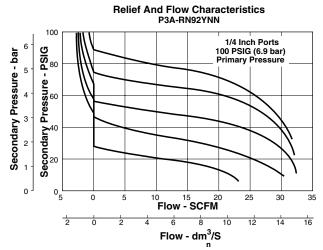
# **Ordering Information**





**Technical Specifications – P3A-R** 





#### **Regulator Kits and Accessories**

Gauges – 30 PSIG, 1/8" NPT (0 to 2.1 bar)	P530154
Panel Mount Nut	P78652
Mounting Bracket Kit	PS417BP
Service Kits – Piston Non-Relieving	PS423 PS425B
Springs – 1-15 PSIG Spring (Yellow)	P01175 P01174

#### **Specifications**

Gauge Ports (2)					
Operating Pressure Range –		PSIG	bar		
Primary –	Maximum	120	8.3		
Secondary –					
15 PSIG Spring	Minimum	1	0.07		
	Maximum	15	1.0		
30 PSIG Spring	Minimum	6	0.4		
	Maximum	30	2.1		
60 PSIG Spring	Minimum	6	0.4		
	Maximum	60	4.1		
110 PSIG Spring		6	0.4		
	Maximum	110	7.6		
Operating Temperatur					
Port Threads					
Weight		0.23	3 lb. (0.10 kg)		
<b>Materials of Co</b>	nstruction	า			
Adjusting Nut			Brass		
Adjusting Stem and S					
		Stainless Steel			
		Plastic			
			Plastic		
Seals					
Valve Poppet					
vaive i oppet		1 10	asiic a Millile		

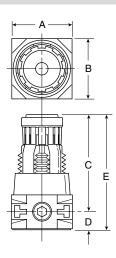


# P3A-W Regulators - Miniature (Water Service)



#### **Features**

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



Port Size	NPT
Without Ga	uge
1/8"	P3A-WN91QNN
1/4"	P3A-WN92QNN

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

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

P3A-W Regulator Dimensions					
Α	В	С	D		
1.57	1.57	2.50	0.46		
(40)	(40)	(64)	(12)		
E					
2.96					
(75)					

Inches (mm)

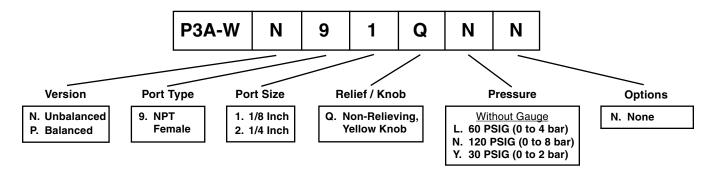
#### **⚠ WARNING**

Product rupture can cause serious injury.

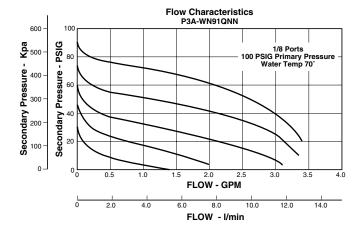
Do not connect regulator to bottled gas.

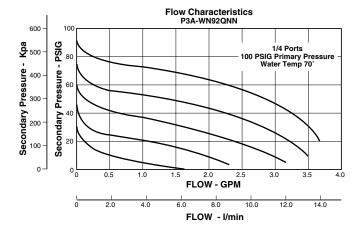
Do not exceed maximum primary pressure rating.

#### **Ordering Information**









#### **Regulator Kits and Accessories**

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

#### **Specifications**

Gauge Ports (2)	h
Pressure Rating –  Maximum Inlet Pressure 150 PSIG(10.0 ba	ır)
Port Threads 1/8, 1/4 Inc	h
emperature Rating Water 40°F to 125°F (4°C to 52°C	2)
Veight 0.23 lb. (0.10 kg	g)
Materials of Construction	
Adjusting Nut Bras	SS
Adjusting Stem Bras	
BodyPlast	ic
Bonnet, Seat and PistonPlast	ic
Diaphragm Santoprer	
Seals Buna N or Thermo Plastic Elastome	er
Springs Stainless Ste	el

Valve Poppet ...... Plastic / Nitrile

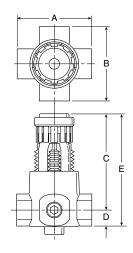


# 15R Regulators - Economy



#### **Features**

- Unique balanced poppet valve minimizes secondary pressure fluctuations.
- Solid control piston with resilient seat for service-free operation.
- Non-rising "locking" adjusting knob.
- Compact, 3.30 inch (84mm) high by 2.12 inch (54mm) wide.
- Easily serviced.



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

15R Regulator Dimensions			
Α	В	С	D
2.12	2.00	2.60	0.70
(54)	(51)	(66)	(18)
E			
3.30			
(84)			

Inches (mm)

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

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

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

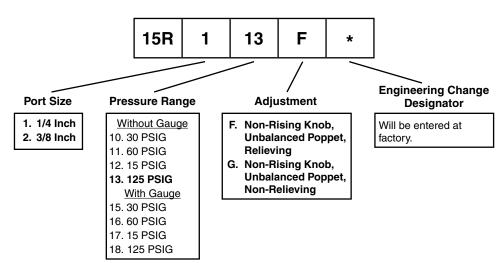
#### **⚠ WARNING**

Product rupture can cause serious injury.

Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

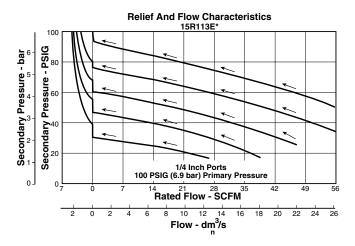
#### **Ordering Information**

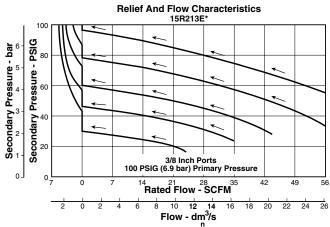




**Air Line Regulators** 

#### **Technical Information**





#### **CAUTION:**

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

#### 15R Regulator Kits & Accessories

Body Service Kit - Unbalanced PS424B	iΡ
Bonnet Assembly Kit L0136	39
Gauges - 30 PSIG, 1/8" NPT (0 to 2.1 bar)	56
60 PSIG, 1/8" NPT (0 to 4.1 bar)	54
160 PSIG, 1/8" NPT (0 to 11.0 bar) P7741	13
60 PSIG, 1/4" NPT (0 to 4.1 bar) P78164	11
160 PSIG, 1/4" NPT (0 to 11.0 bar) P78164	12
Mounting Bracket Kit (Includes Panel Mount Nut) PS417B	βP
Panel Mount Nuts -Plastic	52
MetalP0153	31
Service Kits – Non-Relieving PS422	2P
RelievingPS423	βP
<b>Springs –</b> 1-15 PSIG Range (Yellow)P0117	76
1-30 PSIG Range (Black)P0117	75
1-60 PSIG Range (White)P0117	
2-125 PSIG Range (Gold)P0117	70

#### **Specifications**

Gauge Ports (2)(Can be used for Full Flow)	1/4 Inch
Port Threads	1/4, 3/8 Inch
Pressure & Temperature Ratings –	0 to 250 PSIG (0 to 17.2 bar) 32°F to 125°F (0°C to 52°C)
Secondary Pressure Ranges –	
Standard Pressure	2 to 125 PSIG (0 to 8.6 bar)
Medium Pressure	1 to 60 PSIG (0 to 4.1 bar)
Medium Pressure	1 to 30 PSIG (0 to 2.1 bar)
Low Pressure	1 to 15 PSIG (0 to 1 bar)
Weight	0.5 lb. (0.23 kg)

#### **Materials of Construction**

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

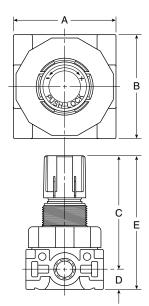


# R45 Regulators - Miniature (Air / Water Service)



#### **Features**

- · Lightweight plastic body.
- Constructed with a combination of N.S.F. and F.D.A. approved materials.
- Unbalanced poppet standard.
- · Non-rising, push-to-lock adjusting knob.
- Compact, 3.43 inch (87.1mm) high by 2.06 inch (52.3mm) wide.
- · Lightweight.
- · Diaphragm operated.



R45 Regulator Dimensions			
Α	В	С	D
2.06	2.06	2.90	0.53
(52.3)	(52.3)	(73.7)	(13.5)
E			
3.43			
(87.1)			

Inches (mm)

Port Size	NPT	
Relieving, 0-125 Reduced Pressure, Without Gauge		
1/4"	R45-02C	
3/8"	R45-03C	

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

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

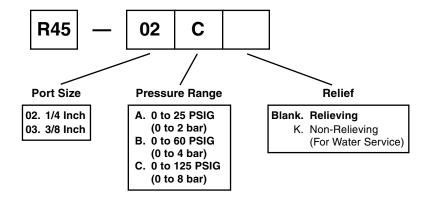
#### **⚠ WARNING**

Product rupture can cause serious injury.

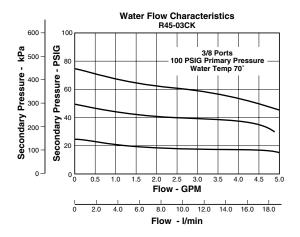
Do not connect regulator to bottled gas.

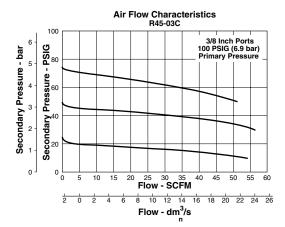
Do not exceed maximum primary pressure rating.

# **Ordering Information**









#### **Regulator Kits and Accessories**

Panel Mount Nut –	
Plastic	R05X51
Aluminum	R05X51A
Mounting Bracket and Nut	SA161X57
Service Kits –	
Relieving	RKR45Y
Non-Relieving	RKR45KY
Springs - 0-25 PSIG Spring	SPR-46
0-60 PSIG Spring	SPR-47

#### **Specifications**

(Can be used for full flow)	
,	
Pressure Rating –	
Maximum Inlet Pres	ssure 150 PSIG(10.0 bar)
Port Threads	1/4, 3/8 Inch
Temperature Rating	40°F to 125°F (4°C to 52°C)
Weight	0.38 lb. (0.17 kg)
<b>Materials of Constructi</b>	ion
Adjusting Screw	Steel
Body	Acetal
Bonnet and Seat	Acetal
Diaphragm	Buna N
Seals	Buna N
Springs	Stainless Steel
Valve Poppet	Buna N

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



# 14E Filter / Regulator - Miniature

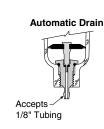


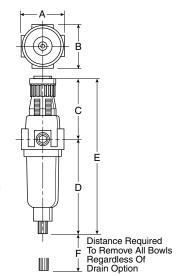




#### **Features**

- · Excellent water removal efficiency.
- Unbalanced poppet standard.
- · Solid control piston for extended life.
- · Space saving package offers both filter and regulator features in one integral unit.
- · Non-rising adjustment knob.
- Two full flow 1/8" gauge ports.
- High Flow: 1/8" 16 SCFM § 1/4" - 18 SCFM §





Port	NPT		
Size	Twist Drain Automatic Pulse Dr		
Poly Bow	/l <sup>‡</sup>		
1/8"	14E01B13F*	14E05B13F*	
1/4"	14E11B13F*	14E15B13F*	
Metal Bo	Metal Bowl		
1/8"	14E03B13F*	14E07B13F*	
1/4"	14E13B13F*	14E17B13F*	

14E Piggyback Dimensions			
Α	В	С	
1.62	1.58	2.42	
(41)	(40)	(61)	
D	D†	E	
3.79	3.64	6.21	
(96)	(92)	(158)	
E†	F		
6.06	1.60		
(154)	(41)		

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

‡ For polycarbonate bowl see Caution on page 1.

90 PSIG no flow secondary setting and 10 PSIG pressure drop.

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

33,				
A 1.00	B	C		
1.62	1.58	2.42		
(41)	(40)	(61)		
D	D†	E		
3.79	3.64	6.21		
(96)	(92)	(158)		
Ε <sup>†</sup>	F			
6.06	1.60			
(154)	(41)			
Inches (mm)				

† With Auto Drain

Ordering Information NOTE: BOLD OPTIONS  14E 1	1	В	13	F		*	_	_	
ARE STANDARD.  Port Size Elements		Relie	ef	_	Port	Type	/ _ (		Preset / Pressure Limited
0. 1/8 Inch         1. 1/4 Inch             A. 40 Micron         B. 5 Micron         Z. Adsorber		<b>F. Relievi</b> G. Non-Re	٠ ١		l	NPT BSPF BSPT			Blank. None XXX* Preset Pressure XXX* Pressure
Bowl Options Pressu	ा ire Range	. 1	Engineeri	ing Ch	nange		Opti	ons	Limited
Polycarbonate Bowl Without	With			gnato		Blar	nk. No C	•	* Available Preset / Pressure Limited
1. Twist Drain Gauge	<u>Gauç</u>	<del>)                                    </del>	Will be ento	ered a	t		L.† Pres		Range, 10 to 90
5. Automatic Drain 10. 30 PSIG	15. 30 F	J. J. L	factory.					Adjustable	PSIG in 5 PSIG increments. For
Metal Bowl 11. 60 PSIG	16. 60 F	1						et Adjustable	higher pressures,
3. Twist Drain 12. 15 PSIG	17. 15 F						S.† Pres	sure er Max.	contact factory.
7. Automatic Drain 13. 125 PSIG	18. 125	PSIG						etable	(Example:
Spring Type by Preset / Limited Pressure: For Preset / Limited Pressure 10 to 25 use 30	DCI Corina						T.† Pres		065 = 65 PSIG)

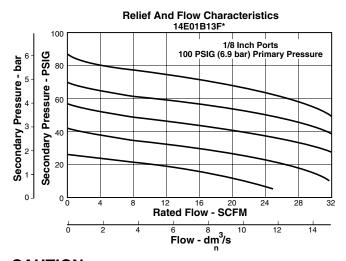
For Preset / Limited Pressure 26 to 50 use 60 PSI Spring

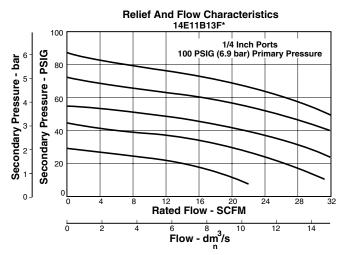
For Preset / Limited Pressure 51 to 90 use 125 PSI Spring

† Inlet Pressure is 100 PSIG. For

other pressures, contact factory.

<sup>§</sup> SCFM = Standard cubic feet per minute at 100 PSIG inlet,





#### **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.

#### riangle Warning

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

#### 14E Filter / Regulator Kits & Accessories

Bowl Kits –	
Poly Bowl - Automatic Drain	PS408P
Twist Drain	PS404P
Metal Bowl – Automatic Drain	
Twist Drain	PS447BP
Filter Element Kits – 40 Micron	
5 Micron	
Adsorber	
<b>Gauges –</b> 30 PSIG (0 to 2.1 bar)	
60 PSIG (0 to 4.1 bar)	P530154
160 PSIG (0 to 11.0 bar)	
Mounting Bracket Kit (Includes Panel Mount Nut)	PS417BP
Panel Mount Nut	P78652
Poppet Kits - Unbalanced	PS424BP
Balanced	PS425BP
Service Kits - Non-Relieving	PS422P
Relieving	PS423P
Springs -1- 15 PSIG Range (Yellow)	P01176
1- 30 PSIG Range (Black)	
1- 60 PSIG Range (White)	
2- 125 PSIG Range (Gold)	P01173
Specifications	
Automatic Pulse Drain Tube Barb	1/8 Inch
Bowl Capacity	1 Ounce
Gauge Ports (2) (Can be used for Full Flow)	
Port Threads	
Tott Imoudo	1/0, 1/4 111011

Pressure	ጲ	Temperature	Ratings -
riessuie	œ	. I CIIID CI ALUI C	naunus –

Polycarbonate Bowl

0 to 150 PSIG (0 to 10.3 bar), 32°F to 125°F (0°C to 52°C) Metal Bowl

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

#### Secondary Pressure Ranges -

	Standard Pressure	2 to 125 PSIG (0 to 8.6 bar)
	Medium Pressure	1 to 30 PSIG (0 to 2.1 bar)
	Medium Pressure	1 to 60 PSIG (0 to 4.1 bar)
	Low Pressure	1 to 15 PSIG (0 to 1 bar)
i	aht	0.4 lb (0.18 kg)

Weight	0.4 lb. (0.18 kg)
Materials of Construction	
Adjusting Nut	Brass
Adjusting Stem & Spring	Steel
Body	Zinc
Bonnet, Knob, Seat, Piston, Holder & Deflector	Plastic
Bowls Available - Transparent	
Metal (Without Sight Gauge)	Zinc
Drains - Manual - Twist Type	
Body & Stem	Plastic
Seals	Nitrile
Automatic - Pulse Type	
Piston & Seals	Nitrile
Stem, Seat, Adaptor & Washers	Aluminum
Filter Elements – 5 Micron (Standard)	Plastic
40 Micron (Optional)	Plastic
Adsorber (Optional) Ad	ctivated Charcoal
Coole	Nitrilo



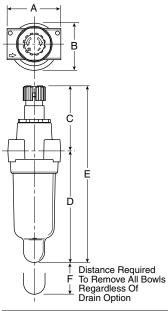
# 04L Mist Lubricators - Miniature





#### **Features**

- Proportional oil delivery over a wide range of air flows.
- Precision needle valve assures repeatable oil delivery and provides simple adjustment of delivery rate.
- Ideal for low and high flow applications with changing air flow.
- Transparent sight dome for 360° visibility.
- High Flow: 1/8" 20 SCFM § 1/4" – 20 SCFM §



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

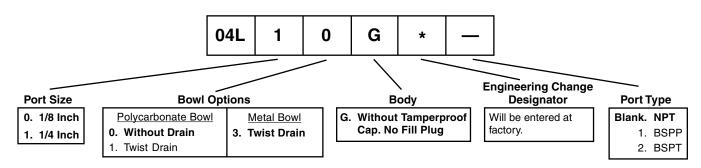
04L Lubricator Dimensions				
Α	В	C		
1.73	1.56	2.16		
(44)	(40)	(55)		
D	D†	Е		
3.64	3.78	5.80		
(92)	(96)	(147)		
Ε†	F			
5.94	1.60			
(151)	(41)			

Inches (mm)

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

- ‡ For polycarbonate bowl see Caution on page 1.
- § SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

#### **Ordering Information**

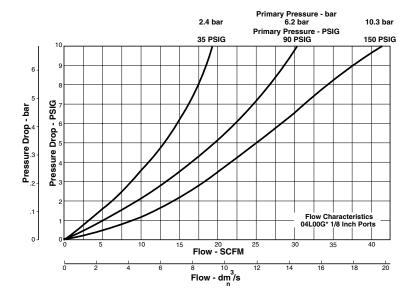


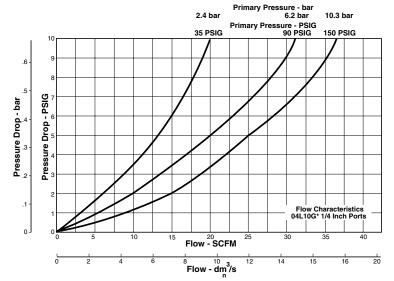


<sup>†</sup> With Twist Drain

#### **Technical Specifications – 04L**

#### **Technical Information**





#### 04L Mist Lubricator Kits & Accessories

Bowl	Kits -	

Poly Bowl - No Drain	PS421P
Twist Drain	
Metal Bowl -Twist Drain (No Sight Gauge)	PS447BP
Mounting Bracket Kit	PS419
Oil - 1 Gal	F442002
12 Quart Case	F442003
4 Gallon Case	F442005

#### **Specifications**

Bowl Capacity	1 Ounce
Minimum Flow for Lubrication	0.5 SCFM at 100 PSIG
Port Threads	1/8, 1/4 Inch
Pressure & Temperature Rating	ıs –

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

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

#### Suggested Lubricant -F442 Oil

#### **Materials of Construction**

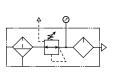
Boay	∠inc
Bowls - Transparent	Polycarbonate
Metal (Without Sight Gauge)	Zinc
Drains - Twist - Body & Nut	Plastic
Seals	Nitrile
Sight Dome	Polycarbonate



# **Close Nippled Combinations – 14 Miniature Series**

• See individual component pages for details.

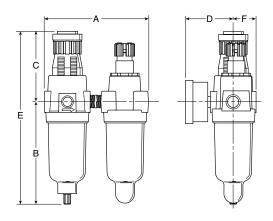
# Two-Unit Combo





Series	Port	Model Numbers
14G	1/8"	14G01B13F0G*
	1/4"	14G11B13F0G*

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

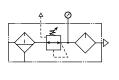


Α	В	С	D	E	F
3.75	3.79	2.42	2.04	6.21	0.79
(95)	(96)	(61)	(52)	(158)	(20)

Inches (mm)

Note: All dimensions nominal.

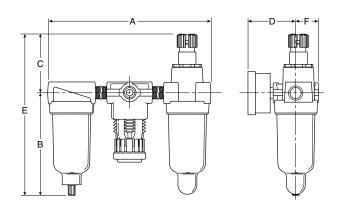
# Three-Unit Combo





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

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



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

Inches (mm)

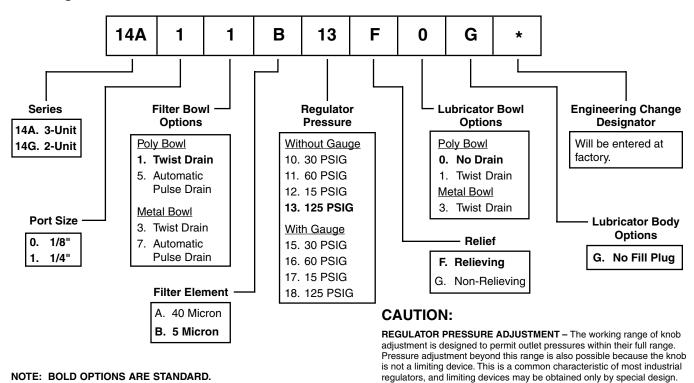
Note: All dimensions nominal.

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



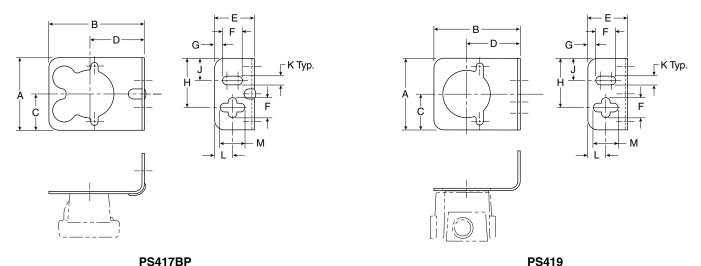
# **Close Nippled Combinations – 14 Miniature Series**

#### **Ordering Information**



# **Mounting Bracket Kits**

(Includes Panel Mount Nut)

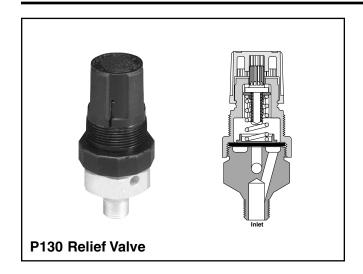


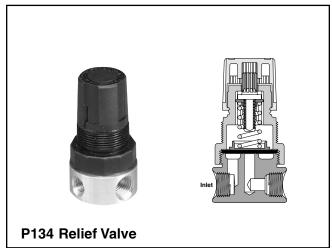
#### **Dimensions**

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



#### Relief Valves - Diaphragm Type





#### **Features**

- Compact, sensitive diaphragm-type relief valve.
- Push-pull, locking knob.
- Knob and top work the same as a miniature regulator.
- P130 has lightweight aluminum construction.
- P134 has a brass body, captured exhaust and is an inline type with 3 inlet ports and 1 outlet port.

# **Applications**

- Designed to protect against excessive pressure buildup in a pneumatic circuit or system.
- For use where gradual proportional relief is required.

# **Operation**

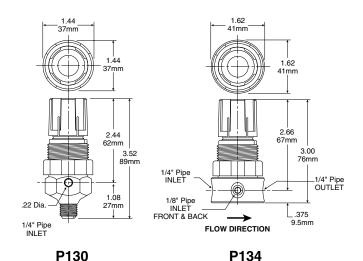
- Turn relief valve knob clockwise for maximum pressure.
- Set pressure going into relief valve at desired pressure.
- Turn relief valve knob counter-clockwise until exhaust starts to bleed.
- Turn relief valve knob clockwise until exhaust stops bleeding. Push to lock knob.

# **Ordering Information**

Relief	Spring Range					
Valve	0-15 PSIG	0-25 PSIG	0-50 PSIG	0-100 PSIG		
P130	P130-02AA	P130-02A	P130-02B	P130-02C		
P 130	P130-02AAP*	P130-02AP*	P130-02BP*	P130-02CP*		
P134	P134-02AA	P134-02A	P134-02B	P134-02C		
P134	P134-02AAP*	P134-02AP*	P134-02BP*	P134-02CP*		

<sup>\*</sup> Panel mount nut included.

# **Dimensions**



#### **Relief Valve Kits**

Bonnet Assembly Kit	. PCKR364Y
Panel Mount Nut	PR05X51

# **Specifications**

Relief Range	0 to 100 PSIG (0 to 6.9 bar)
Maximum Inlet Pressure	300 PSIG (20.7 bar)
Operating Temperature	40°F to 120°F (4°C to 49°C)
Port Threads	
P130:	1/4" Pipe Male Only
P134:	Inlet Port – Two 1/8" & One 1/4" Pipe
	Outlet Port – 1/4" Pipe

#### **Materials of Construction**

Adjusting Knob	Polypropylene
Adjusting Screw	Zinc-plated Steel
Body	Aluminum (P130); Brass (P134)
Diaphragm / Disc	Buna-N
Nut	Chromated Steel
Spring Cage	Acetal
Spring	Zinc-plated Steel







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- **3. Delivery:** Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.
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- **6. Changes, Reschedules and Cancellations:** Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this Agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.
- 7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitations, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed,

- Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.
- **8. Buyer's Property:** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer, or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.
- 9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.
- 10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets (hereinafter "Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

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

- 11. Force Majeure: Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter "Events of Force Majeure"). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's control.
- 12. Entire Agreement/Governing Law: The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.





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