

## Air Preparation Products

### Prep-Air® II Products

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<a href="#">06F Compact</a>	E4-E5
<a href="#">07F Standard</a>	E6-E7

#### Coalescing Filters

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#### Combinations

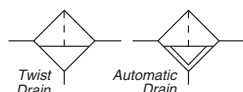
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#### Accessories

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## 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)



Port size	Description ‡	Part number
1/4"	Poly bowl, metal guard, twist drain	<b>05F12AA</b>
1/4"	Poly bowl, metal guard, auto pulse drain	<b>05F1PAA</b>
3/8"	Poly bowl, metal guard, twist drain	<b>05F22AA</b>
3/8"	Poly bowl, metal guard, auto pulse drain	<b>05F2PAA</b>

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

### Operating information

#### Supply pressure (max):

Plastic bowl	
Without DPI	0 to 150 psig (0 to 10.3 bar)
With DPI	0 to 150 psig (0 to 10.3 bar)
Auto pulse drain	10 to 150 psig (0.7 to 10.3 bar)

#### Operating temperature:

Plastic bowl	32°F to 125°F (0°C to 52°C)
With DPI	32°F to 125°F (0°C to 52°C)

#### Flow capacity†:

High flow	1/4"	54 scfm (25.5 dm³/s, ANR)
	3/8"	70 scfm (33 dm³/s, ANR)

Bowl capacity: 2.0 oz.

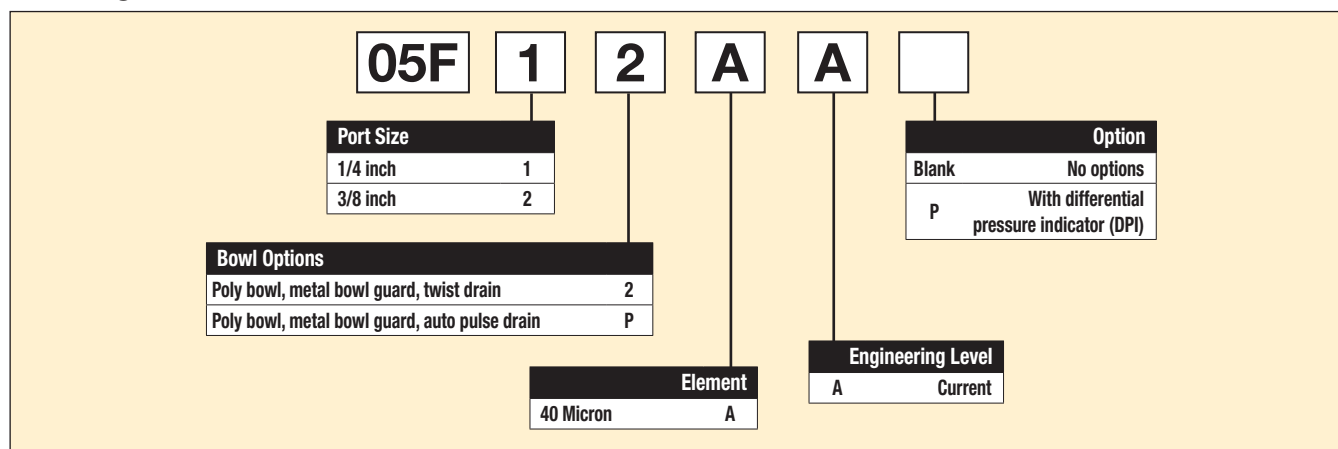
Sump capacity: 0.9 oz.

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.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

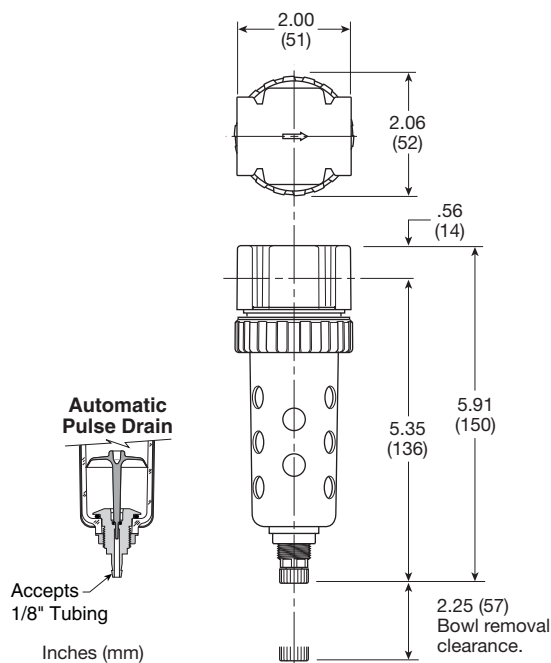
## Economy Particulate Filters

### 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, DPI	Polyamide (nylon)

### Repair and Service Kits

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

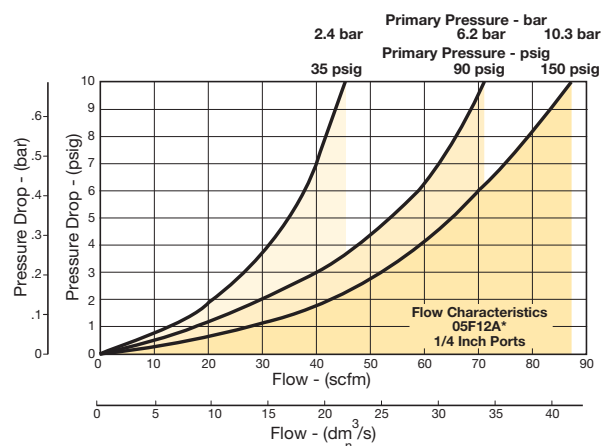


## Air Preparation Products

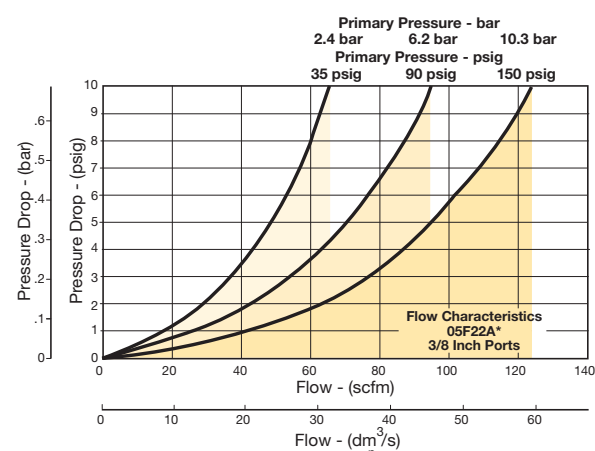
### Prep-Air® II Series

### Flow Charts

#### 05F 1/4" Particulate Filter

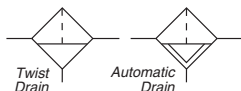


#### 05F 3/8" Particulate Filter



## 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, BSPP



Port size	Description ‡	Part number
1/4"	Poly bowl, metal guard, twist drain	<b>06F12AC</b>
1/4"	Metal bowl, sight gauge, twist drain	<b>06F14AC</b>
1/4"	Poly bowl, metal guard, auto float drain	<b>06F16AC</b>
1/4"	Metal bowl, sight gauge, auto float drain	<b>06F18AC</b>
3/8"	Poly bowl, metal guard, twist drain	<b>06F22AC</b>
3/8"	Metal bowl, sight gauge, twist drain	<b>06F24AC</b>
3/8"	Poly bowl, metal guard, auto float drain	<b>06F26AC</b>
3/8"	Metal bowl, sight gauge, auto float drain	<b>06F28AC</b>
1/2"	Poly bowl, metal guard, twist drain	<b>06F32AC</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>06F34AC</b>
1/2"	Poly bowl, metal guard, auto float drain	<b>06F36AC</b>
1/2"	Metal bowl, sight gauge, auto float drain	<b>06F38AC</b>

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

### 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 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)
With DPI	32°F to 125°F (0°C to 52°C)

#### Flow capacity†:

High flow	1/4"	53 scfm (25 dm³/s, ANR)
	3/8"	80 scfm (37.8 dm³/s, ANR)
	1/2"	85 scfm (40.1 dm³/s, ANR)

Bowl capacity: 4.4 oz.

Sump capacity: 1.75 oz.

Weight: 1.4 lb (0.6 kg)

† scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

DPI = Differential pressure indicator

### Ordering information:

06F	1	2	A	C																			
<table><tr><th colspan="2">Port Size</th></tr><tr><td>1/4 inch</td><td>1</td></tr><tr><td>3/8 inch</td><td>2</td></tr><tr><td>1/2 inch</td><td>3</td></tr></table>		Port Size		1/4 inch	1	3/8 inch	2	1/2 inch	3				<table><tr><th colspan="2">Port Type</th></tr><tr><td>Blank</td><td>NPT</td></tr><tr><td>1*</td><td>BSPP</td></tr></table> <p>* 1/4 &amp; 3/8 inch meets ISO 1179-1 standard.</p>	Port Type		Blank	NPT	1*	BSPP				
Port Size																							
1/4 inch	1																						
3/8 inch	2																						
1/2 inch	3																						
Port Type																							
Blank	NPT																						
1*	BSPP																						
<table><tr><th colspan="2">Bowl Options</th></tr><tr><td>Poly bowl, metal bowl guard, twist drain</td><td>2</td></tr><tr><td>Poly bowl, metal bowl guard, auto float drain</td><td>6</td></tr><tr><td>Metal bowl, twist drain</td><td>3</td></tr><tr><td>Metal bowl, sight gauge, twist drain</td><td>4</td></tr><tr><td>Metal bowl, auto float drain</td><td>7</td></tr><tr><td>Metal bowl, sight gauge, auto float drain</td><td>8</td></tr></table>		Bowl Options		Poly bowl, metal bowl guard, twist drain	2	Poly bowl, metal bowl guard, auto float drain	6	Metal bowl, twist drain	3	Metal bowl, sight gauge, twist drain	4	Metal bowl, auto float drain	7	Metal bowl, sight gauge, auto float drain	8			<table><tr><th colspan="2">Engineering Level</th></tr><tr><td>C</td><td>Current</td></tr></table>	Engineering Level		C	Current	
Bowl Options																							
Poly bowl, metal bowl guard, twist drain	2																						
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Engineering Level																							
C	Current																						
			<table><tr><th colspan="2">Element</th></tr><tr><td>A</td><td>40 Micron</td></tr><tr><td>B</td><td>5 Micron</td></tr></table>	Element		A	40 Micron	B	5 Micron														
Element																							
A	40 Micron																						
B	5 Micron																						

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

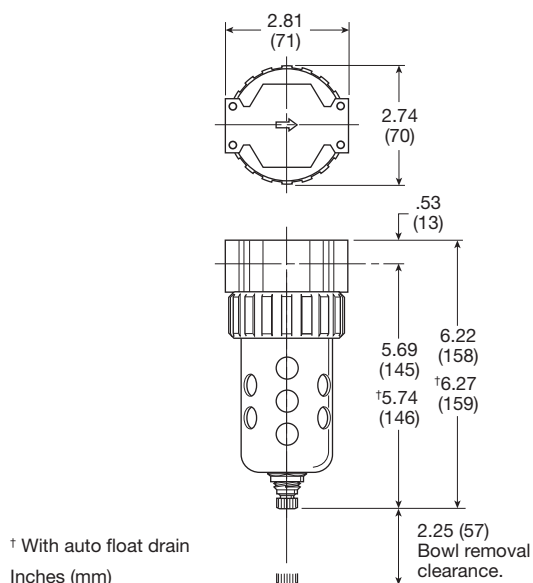
## Compact Particulate Filters

### 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

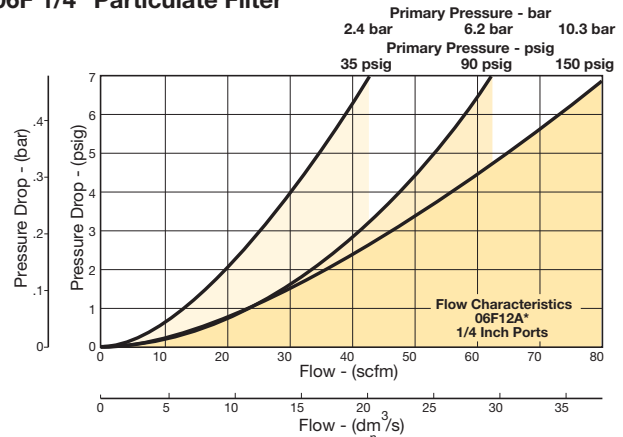
Bowl guard kit	<b>PS705P</b>
Poly bowl / auto float drain kit	<b>PS722P</b>
Poly bowl / twist drain kit	<b>PS732P</b>
Metal bowl / auto float drain kit	<b>PS726P</b>
Metal bowl / twist drain kit	<b>PS734P</b>
Metal bowl / sight gauge / auto float drain kit	<b>PS723P</b>
Metal bowl / sight gauge / twist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



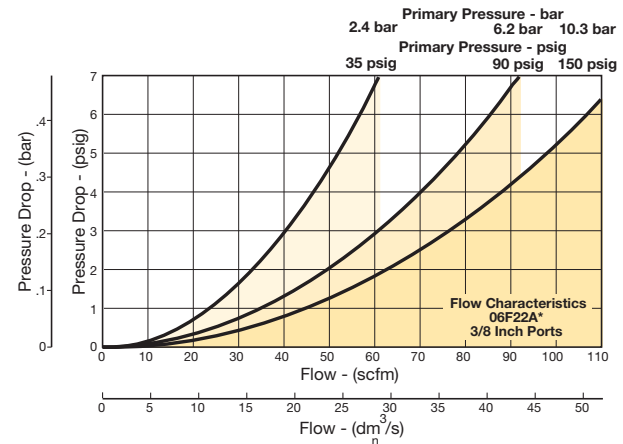
## Air Preparation Products Prep-Air® II Series

### Flow Charts

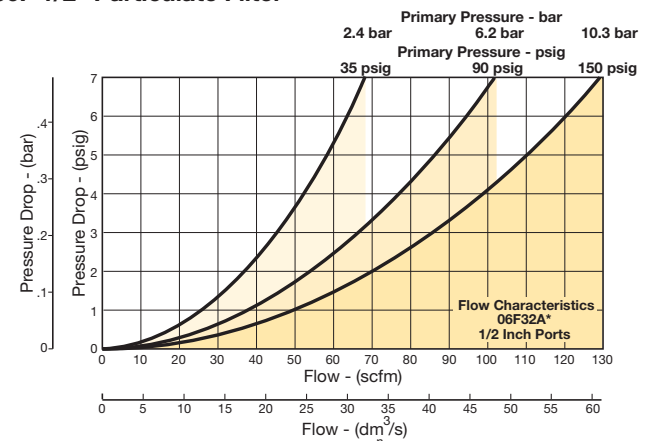
#### 06F 1/4" Particulate Filter



#### 06F 3/8" Particulate Filter

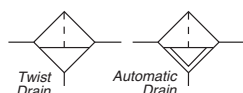


#### 06F 1/2" Particulate Filter



## 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, BSPP



## 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	
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	32°F to 125°F (0°C to 52°C)
Metal bowl	32°F to 175°F (0°C to 80°C)
With DPI	32°F to 125°F (0°C to 52°C)

## Flow capacity†:

High flow	1/2"	130 scfm (61.4 dm³/s, ANR)
	3/4"	145 scfm (68.4 dm³/s, ANR)

Bowl capacity: 7.2 oz.

Sump capacity: 2.8 oz.

Weight: 2.2 lb (1.0 kg)

† scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

DPI = Differential pressure indicator

Port size	Description ‡	Part number
1/2"	Poly bowl, metal guard, twist drain	<b>07F32AC</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>07F34AC</b>
1/2"	Poly bowl, metal guard, auto float drain	<b>07F36AC</b>
1/2"	Metal bowl, sight gauge, auto float drain	<b>07F38AC</b>
3/4"	Poly bowl, metal guard, twist drain	<b>07F42AC</b>
3/4"	Metal bowl, sight gauge, twist drain	<b>07F44AC</b>
3/4"	Poly bowl, metal guard, auto float drain	<b>07F46AC</b>
3/4"	Metal bowl, sight gauge, auto float drain	<b>07F48AC</b>

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

## Ordering information:

<b>07F</b>	<b>3</b>	<b>2</b>	<b>A</b>	<b>C</b>	
<b>Port Size</b>					<b>Port Type</b>
1/2 inch	3				Blank
3/4 inch	4				1*
<b>Bowl Options</b>					
Poly bowl, metal bowl guard, twist drain	2				
Poly bowl, metal bowl guard, auto float drain	6				
Metal bowl, twist drain	3				
Metal bowl, sight gauge, twist drain	4				
Metal bowl, auto float drain	7				
Metal bowl, sight gauge, auto float drain	8				
				<b>Engineering Level</b>	
				C	Current
				<b>Element</b>	
			A	40 Micron	
			B	5 Micron	

\* 1/2 inch meets ISO 1179-1 standard.

Most popular.



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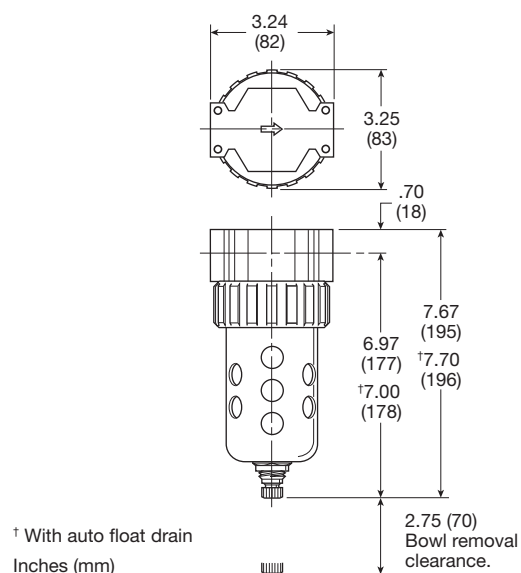
## Standard Particulate Filters

### 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

### Repair and Service Kits

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

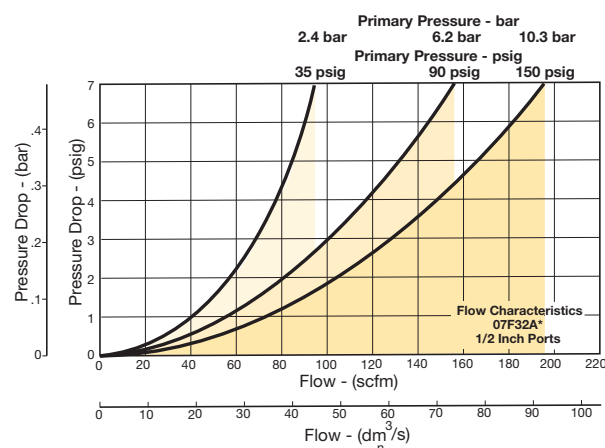


## Air Preparation Products

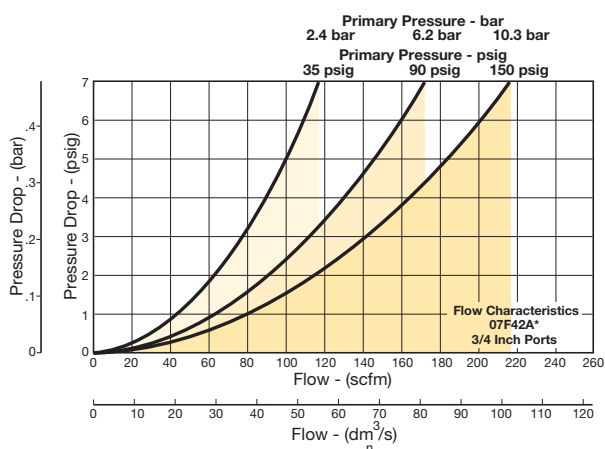
### Prep-Air® II Series

### Flow Charts

#### 07F 1/2" Particulate Filter

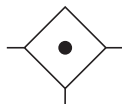


#### 07F 3/4" Particulate Filter



## 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



Port size	Description ‡	Part number
1/4"	Poly bowl, metal guard, twist drain	<b>15F12EA</b>
1/4"	Poly bowl, metal guard, auto pulse drain	<b>15F1PEA</b>
3/8"	Poly bowl, metal guard, twist drain	<b>15F22EA</b>
3/8"	Poly bowl, metal guard, auto pulse drain	<b>15F2PEA</b>

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

## Operating information

## Supply pressure (max):

Plastic bowl	
Without DPI	0 to 150 psig (0 to 10.3 bar)
With DPI	0 to 150 psig (0 to 10.3 bar)
Auto pulse drain	10 to 150 psig (0.7 to 10.3 bar)

## Operating temperature:

Plastic bowl	32°F to 125°F (0°C to 52°C)
With DPI	32°F to 125°F (0°C to 52°C)

Flow capacity†:	Grade 6	1/8" 30 scfm (14.2 dm³/s, ANR)
		1/4" 30 scfm (14.2 dm³/s, ANR)

Bowl capacity: 2.0 oz.

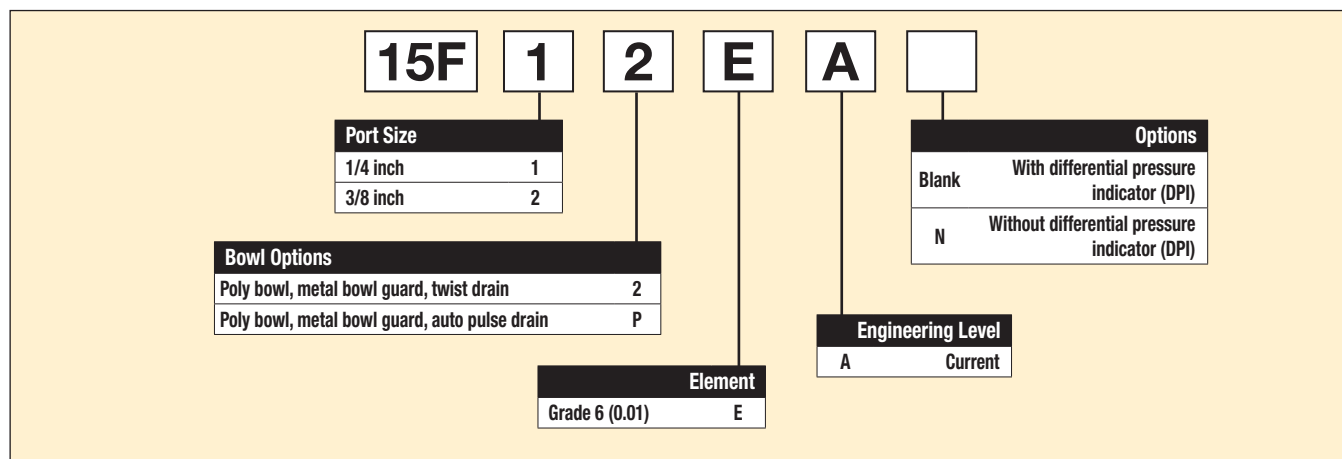
Sump capacity: 0.9 oz.

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.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

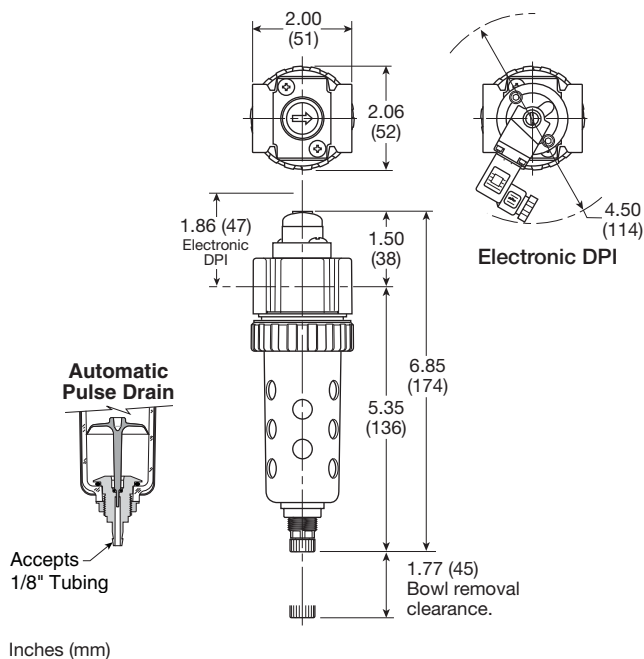
## Economy Coalescing Filters

### Material Specifications

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



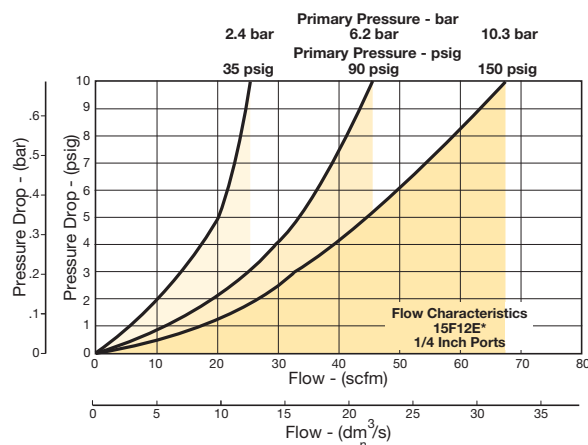
## Air Preparation Products

### Prep-Air® II Series

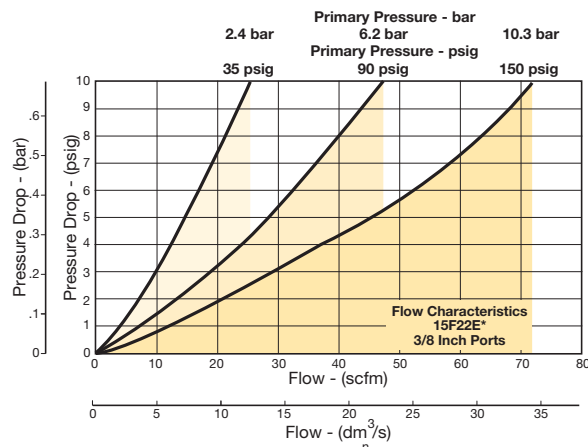
### Flow Charts

#### Grade 6 Element

##### 15F 1/4" Coalescing Filter

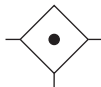


##### 15F 3/8" Coalescing Filter



## 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, BSPP)



## 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)
With DPI	32°F to 125°F (0°C to 52°C)

## Flow capacity†:

Grade 6 (0.01 micron)	1/4"	45 scfm (21 dm³/s, ANR)
	3/8"	48 scfm (23 dm³/s, ANR)
	1/2"	65 scfm (31 dm³/s, ANR)
Grade 10 (1.0 micron)	1/4"	60 scfm (28.3 dm³/s, ANR)
	3/8"	72 scfm (34 dm³/s, ANR)
	1/2"	95 scfm (45 dm³/s, ANR)

Bowl capacity: 4.4 oz.

Sump capacity: 1.75 oz.

Weight: 1.5 lb (0.7 kg)

† scfm = Standard cubic feet per minute at 90 psig inlet and 5 psig pressure drop.

DPI = Differential pressure indicator

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:

<b>11F</b>	<b>1</b>	<b>2</b>	<b>E</b>	<b>C</b>		
<b>Port Size</b> 1/4 inch 1 3/8 inch 2 1/2 inch 3				<b>Port Type</b> Blank NPT 1* BSPP <small>* 1/4 &amp; 3/8 inch meets ISO 1179-1 standard.</small>		
<b>Bowl Options</b> Poly bowl, metal bowl guard, twist drain 2 Poly bowl, metal bowl guard, auto float drain 6 Metal bowl, twist drain 3 Metal bowl, sight gauge, twist drain 4 Metal bowl, auto float drain 7 Metal bowl, sight gauge, auto float drain 8				<b>Options</b> Blank With differential pressure indicator (DPI) N Without differential pressure indicator (DPI)		
				<b>Engineering Level</b> C Current		
				<b>Element</b> E Grade 6 H Grade 10		

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

E10

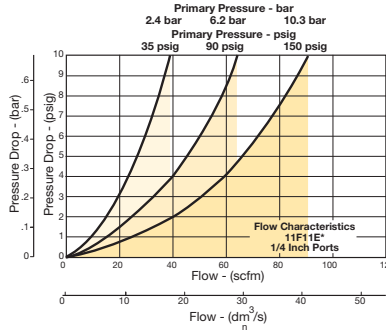
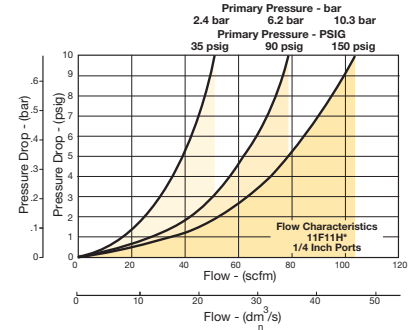
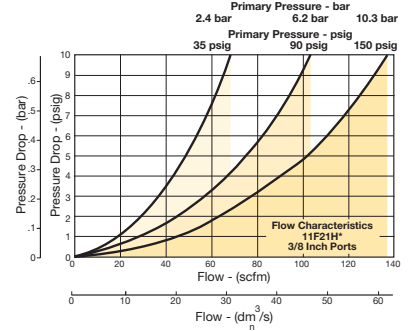
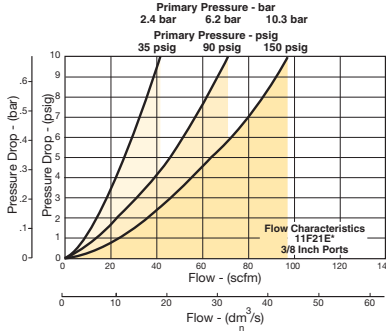
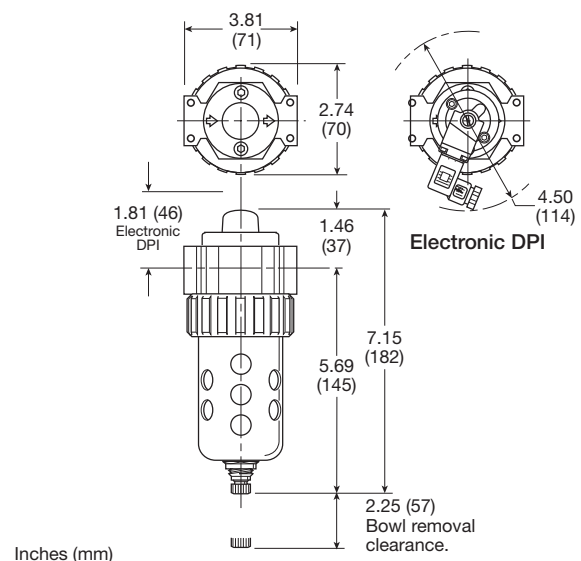
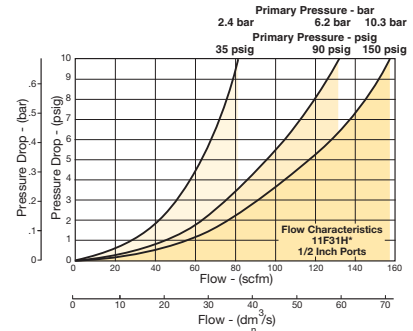
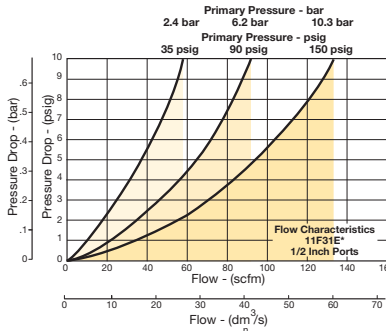
**Parker Hannifin Corporation**  
 Pneumatic Division  
 Richland, Michigan  
[www.parker.com/pneumatics](http://www.parker.com/pneumatics)

**Compact Coalescing Filters****Air Preparation Products  
Prep-Air® II Series****Material Specifications**

Body	Zinc
Transparent bowl	Polycarbonate
Metal bowl	Zinc
Bowl guard	Steel
Collar	Plastic
Twist drain, body & nut	Plastic
Push 'N' drain, body	Nitrile
Push 'N' drain, stem	Brass
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**

Bowl guard kit	<b>PS705P</b>
Poly bowl / automatic float drain kit	<b>PS722P</b>
Poly bowl / twist drain kit	<b>PS732P</b>
Metal bowl / automatic float drain kit	<b>PS726P</b>
Metal bowl / twist drain kit	<b>PS734P</b>
Metal bowl / sight gauge / automatic float drain kit	<b>PS723P</b>
Metal bowl / sight gauge / twist drain kit	<b>PS735P</b>
DPI replacement kit	<b>PS781P</b>
Electronic DPI replacement kit	<b>PS764</b>
Automatic float drain kit	<b>PS506P</b>
Semi-auto drain kit	<b>PS511P</b>
Twist drain kit	<b>PS512P</b>
Push 'N' drain kit	<b>PS513P</b>
Electrical connector: 15mm, 3-pin DIN, 6 ft. cord	<b>PS2932JBP</b>
Grade 6 element (standard)	<b>PS724P</b>
Grade 10 element (optional)	<b>PS730P</b>
Mounting bracket kit	<b>PS743P</b>
Sight gauge kit	<b>PS914P</b>

**Flow Charts****Grade 6****11F 1/4" Coalescing Filter****Grade 10****11F 3/8" Coalescing Filter****11F 1/2" Coalescing Filter**Prep-Air® II  
Products**F**

Filters

Coalescers

Regulators

Filter /  
Regulators

Lubricators

Combinations

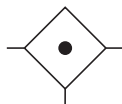
Accessories



For inventory, lead time, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## 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, BSPP)



## 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

Auto float drain

0 to 150 psig (0 to 10.3 bar)

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)

With DPI

32°F to 125°F (0°C to 52°C)

## Flow capacity†:

Grade 6

1/2" 75 scfm (35.4 dm³/s, ANR)

3/4" 80 scfm (37.7 dm³/s, ANR)

Grade 10

1/2" 125 scfm (59 dm³/s, ANR)

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

Port size	Description †	Part number
1/2"	Poly bowl, metal guard, twist drain	<b>12F32EC</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>12F34EC</b>
1/2"	Poly bowl, metal guard, auto float drain	<b>12F36EC</b>
1/2"	Metal bowl, sight gauge, auto float drain	<b>12F38EC</b>
3/4"	Poly bowl, metal guard, twist drain	<b>12F42EC</b>
3/4"	Metal bowl, sight gauge, twist drain	<b>12F44EC</b>
3/4"	Poly bowl, metal guard, auto float drain	<b>12F46EC</b>
3/4"	Metal bowl, sight gauge, auto float drain	<b>12F48EC</b>

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:

<b>12F</b>	<b>3</b>	<b>2</b>	<b>E</b>	<b>C</b>		
<b>Port Size</b> 1/2 inch 3 3/4 inch 4				<b>Port Type</b> Blank NPT 1* BSPP <small>* 1/2 inch meets ISO 1179-1 standard.</small>		
<b>Bowl Options</b> Poly bowl, metal bowl guard, twist drain 2 Poly bowl, metal bowl guard, auto float drain 6 Metal bowl, twist drain 3 Metal bowl, sight gauge, twist drain 4 Metal bowl, auto float drain 7 Metal bowl, sight gauge, auto float drain 8				<b>Options</b> Blank With differential pressure indicator (DPI) N Without differential pressure indicator (DPI)		
				<b>Engineering Level</b> C Current		
				<b>Element</b> E Grade 6 H Grade 10		

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

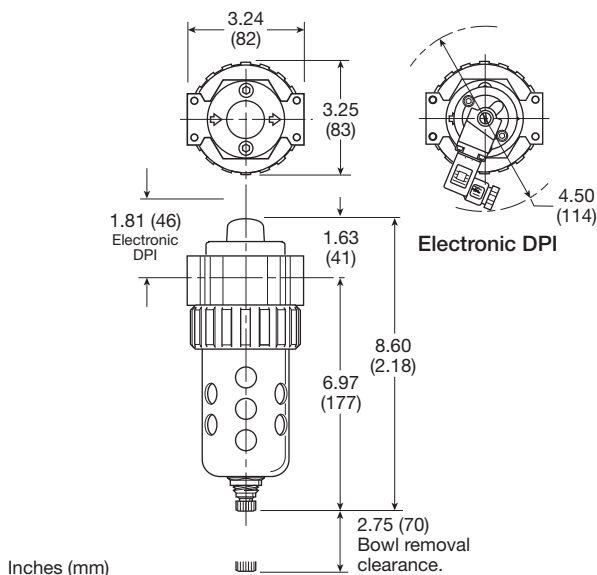
## Standard Coalescing Filters

### 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
Push 'N' drain, body	Nitrile
Push 'N' drain, stem	Brass
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

Bowl guard kit	<b>PS805P</b>
Poly bowl / automatic float drain kit	<b>PS822P</b>
Poly bowl / twist drain kit	<b>PS832P</b>
Metal bowl / automatic float drain kit	<b>PS826P</b>
Metal bowl / twist drain kit	<b>PS834P</b>
Metal bowl / sight gauge / automatic float drain kit	<b>PS823P</b>
Metal bowl / sight gauge / twist drain kit	<b>PS835P</b>
DPI replacement kit	<b>PS781P</b>
Electronic DPI replacement kit	<b>PS764</b>
Automatic float drain kit	<b>PS506P</b>
Semi-auto drain kit	<b>PS511P</b>
Twist drain kit	<b>PS512P</b>
Push 'N' drain kit	<b>PS513P</b>
Electrical connector: 15mm, 3-pin DIN, 6 ft. cord	<b>PS2932JBP</b>
Grade 6 element (standard)	<b>PS824P</b>
Grade 10 element (optional)	<b>PS830P</b>
Mounting bracket kit	<b>PS843P</b>
Sight gauge kit	<b>PS914P</b>

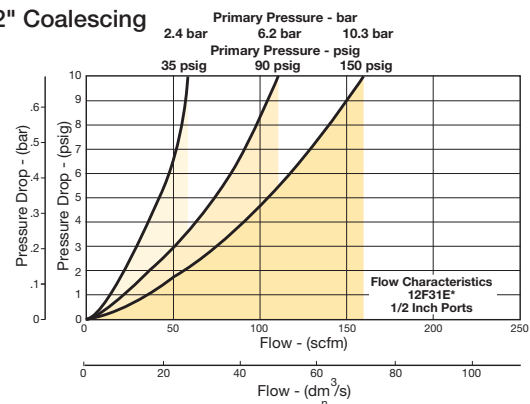


## Air Preparation Products Prep-Air® II Series

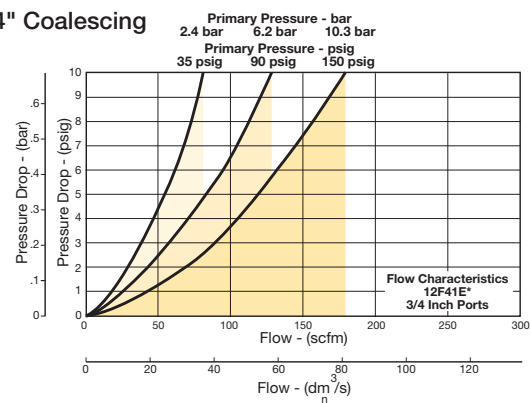
### Flow Charts

#### Grade 6 Element

##### 12F 1/2" Coalescing Filter

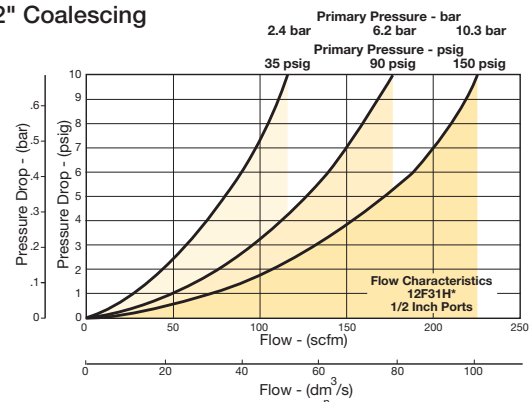


##### 12F 3/4" Coalescing Filter

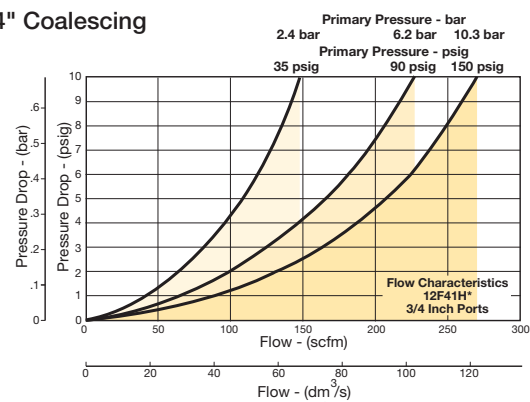


#### Grade 10 Element

##### 12F 1/2" Coalescing Filter



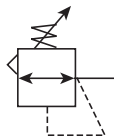
##### 12F 3/4" Coalescing Filter



For inventory, lead time, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

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)



Port size	Description	Part number
1/4"	Without gauge	05R113AD
1/4"	With 160 psi gauge	05R118AD
3/8"	Without gauge	05R213AD
3/8"	With 160 psi gauge	05R218AD

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

Operating information

Supply pressure (max):	0 to 300 psig (0 to 20.7 bar)
For secondary pressure ranges see charts next page.	
Operating temperature:	32°F to 175°F (0°C to 80°C)
Low temperature	-4°F to 125°F (-20°C to 52°C)
Flow capacity†:	
High flow	1/4" 30 scfm (14.2 dm³/s, ANR)
	3/8" 40 scfm (18.9 dm³/s, ANR)
Gauge ports (2):	1/4 inch
Weight:	1.1 lb (0.49 kg)

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

Ordering information:

05R

1

13

A

D

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

Pressure Range	
Without gauge	
30 psig	10
60 psig	11
125 psig	13
200 psig	14
With gauge*	
30 psig	15
60 psig	16
125 psig	18
200 psig	19

Engineering Level	
D	Current

Relief	
A	Relieving

\* Includes 1-1/2" dial face gauge.

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

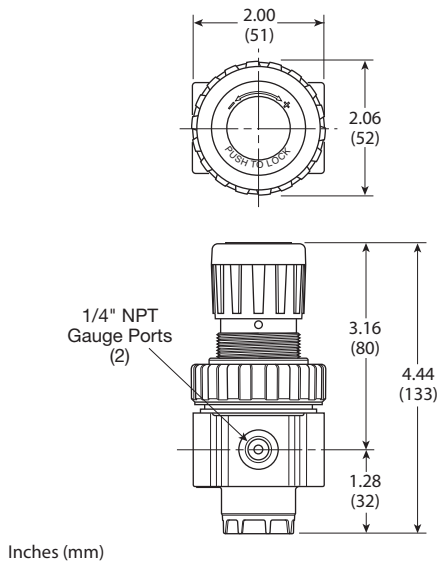
## Economy Regulators

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

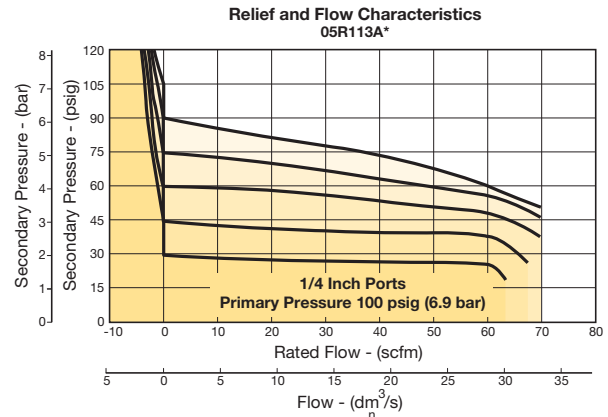


## Air Preparation Products

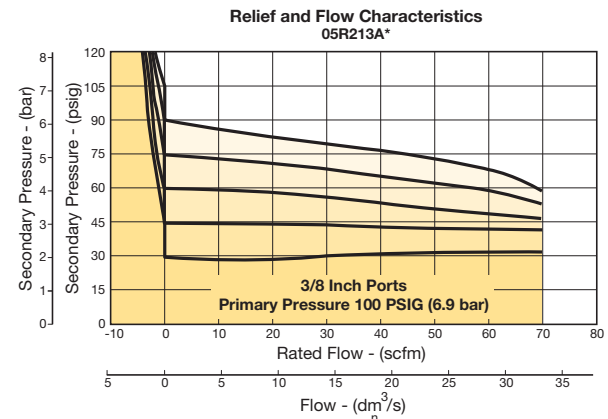
### Prep-Air® II Series

### Flow Charts

#### 05R 1/4" Regulator



#### 05R 3/8" Regulator



### WARNING

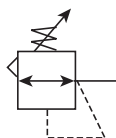
Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed Maximum primary pressure rating.

### 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.

## 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, BSPP)



Port size	Description	Part number
1/4"	Without gauge	<b>06R113AC</b>
1/4"	With 160 psi gauge	<b>06R118AC</b>
3/8"	Without gauge	<b>06R213AC</b>
3/8"	With 160 psi gauge	<b>06R218AC</b>
1/2"	Without gauge	<b>06R313AC</b>
1/2"	With 160 psi gauge	<b>06R318AC</b>

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

### Operating information

Supply pressure (max):	250 psig (17.2 bar)
Secondary pressure ranges:	
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)
Operating temperature:	32°F to 175°F (0°C to 80°C)
Low temperature	-4°F to 125°F (-20°C to 52°C)
Flow capacity†:	
High flow	1/4" 53 scfm (25 dm³/s, ANR)
	3/8" 60 scfm (28.3 dm³/s, ANR)
	1/2" 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:

<b>06R</b>	<b>1</b>	<b>13</b>	<b>A</b>	<b>C</b>																																	
<b>Port Size</b> <table border="1"> <tr><td>1/4 inch</td><td>1</td></tr> <tr><td>3/8 inch</td><td>2</td></tr> <tr><td>1/2 inch</td><td>3</td></tr> </table>		1/4 inch	1	3/8 inch	2	1/2 inch	3	<b>Pressure Range</b> <table border="1"> <tr><td colspan="2">Without gauge</td></tr> <tr><td>60 psig</td><td>11</td></tr> <tr><td>125 psig</td><td>13</td></tr> <tr><td>250 psig</td><td>15</td></tr> <tr><td colspan="2">With gauge*</td></tr> <tr><td>60 psig</td><td>16</td></tr> <tr><td>125 psig</td><td>18</td></tr> <tr><td>250 psig</td><td>21</td></tr> </table> <p>* Includes 1-1/2" dial face gauge.</p>		Without gauge		60 psig	11	125 psig	13	250 psig	15	With gauge*		60 psig	16	125 psig	18	250 psig	21	<b>Relief</b> <table border="1"> <tr><td>Relieving</td><td>A</td></tr> <tr><td>Non-relieving</td><td>L</td></tr> </table>		Relieving	A	Non-relieving	L	<b>Port Type</b> <table border="1"> <tr><td>Blank</td><td>NPT</td></tr> <tr><td>1*</td><td>BSPP</td></tr> </table> <p>* 1/4 &amp; 3/8 inch meet ISO 1179-1 Standard.</p>		Blank	NPT	1*	BSPP
1/4 inch	1																																				
3/8 inch	2																																				
1/2 inch	3																																				
Without gauge																																					
60 psig	11																																				
125 psig	13																																				
250 psig	15																																				
With gauge*																																					
60 psig	16																																				
125 psig	18																																				
250 psig	21																																				
Relieving	A																																				
Non-relieving	L																																				
Blank	NPT																																				
1*	BSPP																																				
<b>Spring Type by Preset / Limited Pressure:</b> For Preset / Limited Pressure 26 to 50 use 60 psi spring For Preset / Limited Pressure 51 to 90 use 125 psi spring		<b>Engineering Level</b> <table border="1"> <tr><td>Current</td><td>C</td></tr> </table>		Current	C	<b>Preset / Pressure Limited</b> <table border="1"> <tr><td>Blank</td><td>None</td></tr> <tr><td>XXX*</td><td>Preset pressure</td></tr> </table> <p>* Available preset / pressure limited range, 10 to 90 psig in 5 psig increments. For higher pressures, contact factory. (Example: 065 = 65 psig)</p>		Blank	None	XXX*	Preset pressure	<b>Options</b> <table border="1"> <tr><td>Blank</td><td>No option</td></tr> <tr><td>L†</td><td>Preset non-adjustable</td></tr> <tr><td>P†</td><td>Preset adjustable</td></tr> <tr><td>R</td><td>Reverse Flow</td></tr> </table> <p>† Inlet Pressure is 100 psig. For other pressures, contact factory.</p>		Blank	No option	L†	Preset non-adjustable	P†	Preset adjustable	R	Reverse Flow																
Current	C																																				
Blank	None																																				
XXX*	Preset pressure																																				
Blank	No option																																				
L†	Preset non-adjustable																																				
P†	Preset adjustable																																				
R	Reverse Flow																																				

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

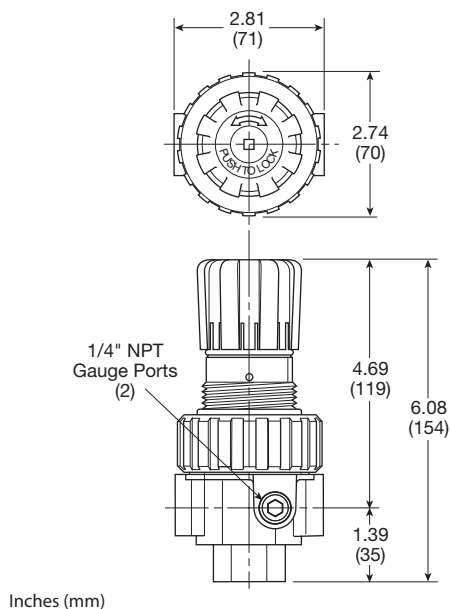
## Compact Regulators

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

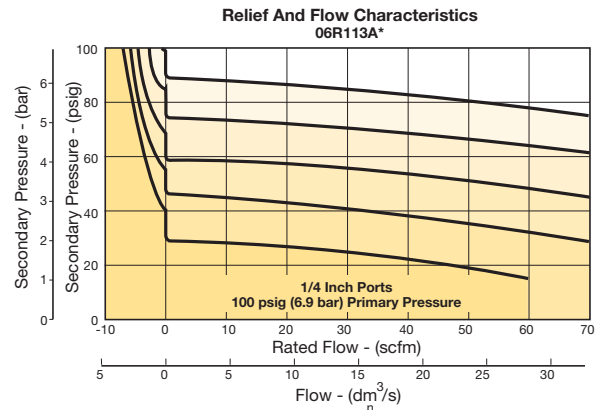


Inches (mm)

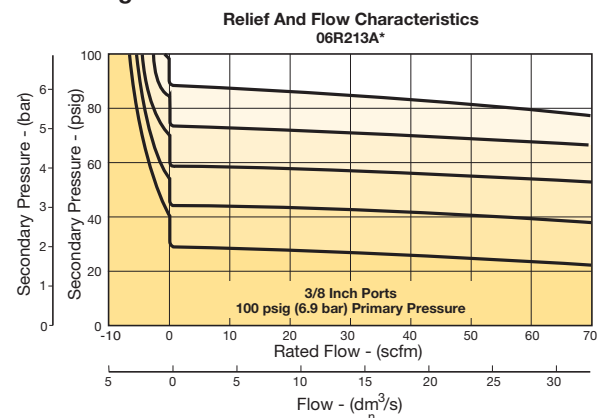
## Air Preparation Products Prep-Air® II Series

### Flow Charts

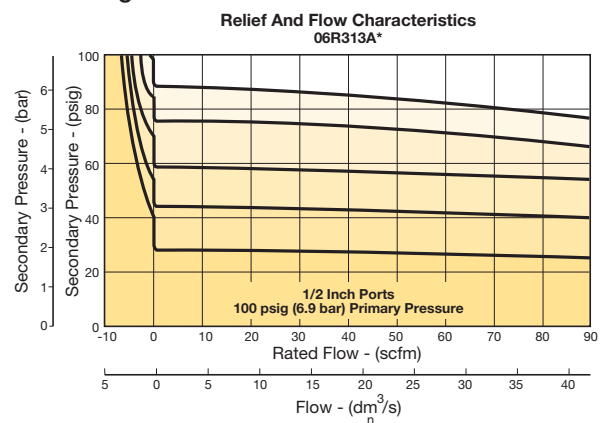
#### 06R 1/4" Regulator



#### 06R 3/8" Regulator



#### 06R 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:

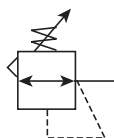
**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and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



For inventory, lead time, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## 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, BSPP)



Port size	Description	Part number
1/2"	Without gauge	<b>07R313AC</b>
1/2"	With 160 psi gauge	<b>07R318AC</b>
3/4"	Without gauge	<b>07R413AC</b>
3/4"	With 160 psi gauge	<b>07R418AC</b>

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

### Operating information

Supply pressure (max):	250 psig (17.2 bar)
Secondary pressure ranges:	
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)
Operating temperature:	32°F to 175°F (0°C to 80°C)
Low temperature	-4°F to 125°F (-20°C to 52°C)
Flow capacity†:	
High flow	1/2" 90 scfm (42.5 dm³/s, ANR)
	3/4" 90 scfm (42.5 dm³/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:

<b>07R</b>	<b>3</b>	<b>13</b>	<b>A</b>	<b>C</b>			
<b>Port Size</b> 1/2 inch 3 3/4 inch 4		<b>Pressure Range</b> Without gauge 60 psig 11 125 psig 13 250 psig 15 With gauge* 60 psig 16 125 psig 18 250 psig 21		<b>Relief</b> Relieving A Non-relieving L		<b>Port Type</b> Blank NPT 1* BSPP	
		<b>Engineering Level</b> Current C				<b>Preset / Pressure Limited</b> Blank None XXX* Preset pressure	
						<b>Options</b> Blank No option L† Preset non-adjustable P† Preset Adjustable R Reverse Flow	
						† Inlet Pressure is 100 psig. For other pressures, contact factory.	

\* Available preset / pressure limited range, 10 to 90 psig in 5 psig increments. For higher pressures, contact factory.  
 (Example: 065 = 65 psig)

Spring Type by Preset / Limited Pressure:  
 For Preset / Limited Pressure 26 to 50 use 60 psi spring  
 For Preset / Limited Pressure 51 to 90 use 125 psi spring

\* Includes 1-1/2" dial face gauge.

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

Most popular.



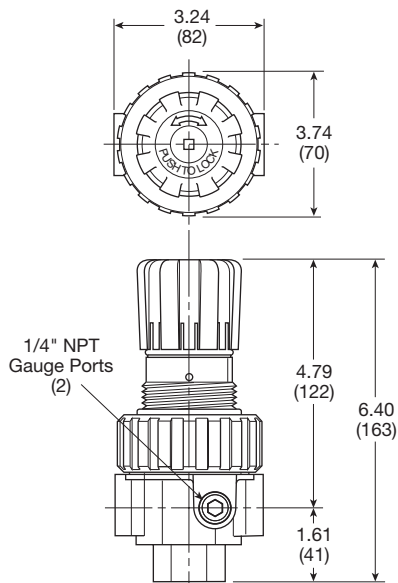
For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## 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

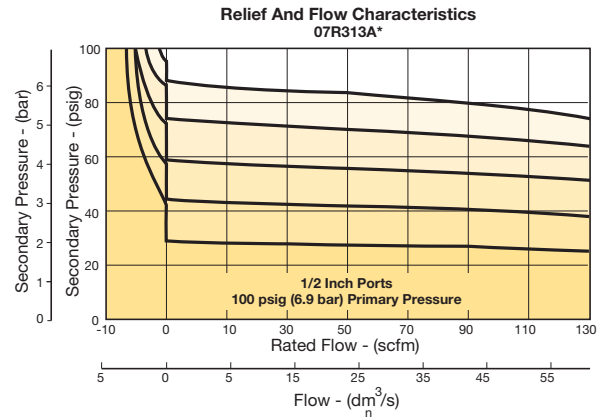
Bonnet assembly kit	<b>PS715P</b>
Control knob	<b>P04069B</b>
2" dial face 60 psig (0 to 4.1 bar), gauge	<b>K4520N14060</b>
2" dial face 160 psig (0 to 11.0 bar), gauge	<b>K4520N14160</b>
2" dial face 300 psig (0 to 20.7 bar), gauge	<b>K4520N14300</b>
1-3/4" digital round face 160 psig (0 to 11.0 bar),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



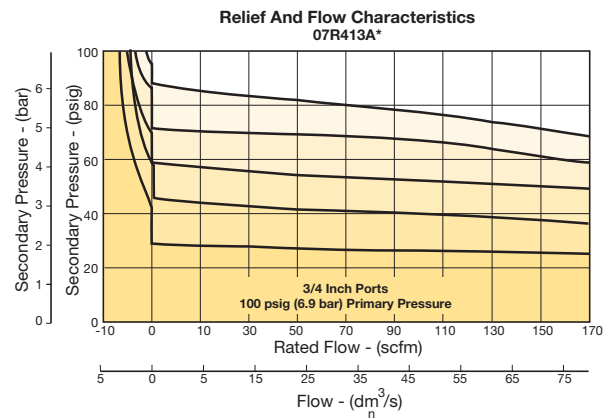
Inches (mm)

## Flow Charts

### 07R 1/2" Regulator



### 07R 3/4" Regulator



## WARNING

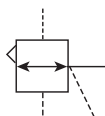
**Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed Maximum primary pressure rating.**

## 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.

## 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)



Port size	Description	Part number
1/4"	Without gauge	<b>11R115PC</b>
1/4"	With 160 psi gauge	<b>11R121PC</b>
3/8"	Without gauge	<b>11R215PC</b>
3/8"	With 160 psi gauge	<b>11R221PC</b>
1/2"	Without gauge	<b>11R315PC</b>
1/2"	With 160 psi gauge	<b>11R321PC</b>

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

### 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" 85 scfm (40 dm³/s, ANR)
	3/8" 95 scfm (44.8 dm³/s, ANR)
	1/2" 95 scfm (44.8 dm³/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:

<b>11R</b>	<b>2</b>	<b>15</b>	<b>P</b>	<b>C</b>	
<b>Port Threads</b> 1/4 inch 1 3/8 inch 2 1/2 inch 3					<b>Port Type</b> Blank NPT 1 BSPP
<b>Relief / Gauge Options</b> Without gauge Non-relieving piston 14 Relieving piston 15 With gauge * Non-relieving piston 19 Relieving piston 21				<b>Engineering Level</b> C Current	
			<b>Adjustment</b> P Pilot operated		

\* Includes 2" dial face gauge 0 to 300 psig.

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

E20

**Parker Hannifin Corporation**  
 Pneumatic Division  
 Richland, Michigan  
[www.parker.com/pneumatics](http://www.parker.com/pneumatics)

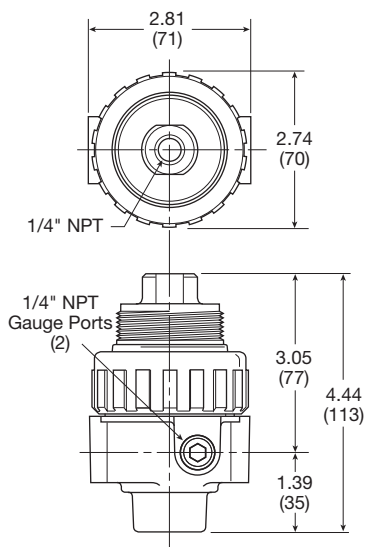
## Compact Pilot Controlled Regulators

### Material Specifications

Body & pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

### Repair and Service Kits

Seat Insert kit	<b>PS713P</b>
2" dial face 60 psig (0 to 4.1 bar), gauge	<b>K4520N14060</b>
2" dial face 160 psig (0 to 11.0 bar), gauge	<b>K4520N14160</b>
2" dial face 300 psig (0 to 20.7 bar), gauge	<b>K4520N14300</b>
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	<b>K4517N14160D</b>
Mounting bracket kit (includes panel mount nut)	<b>PS707P</b>
Panel mount nut, plastic	<b>P04082</b>
Panel mount nut, metal	<b>P04079B</b>
Pilot conversion kit – relieving	<b>PS745P</b>
Non-Relieving	<b>PS747P</b>
Relieving	<b>PS749P</b>

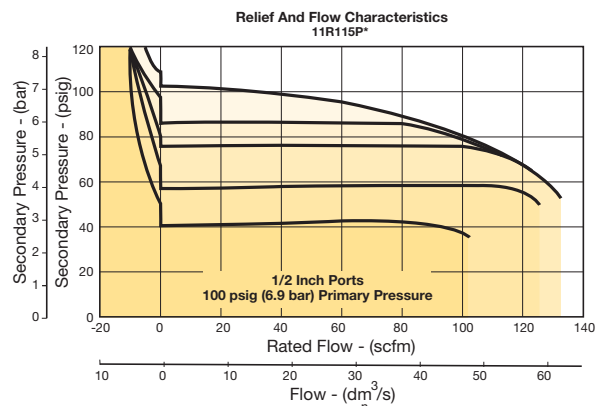


Inches (mm)

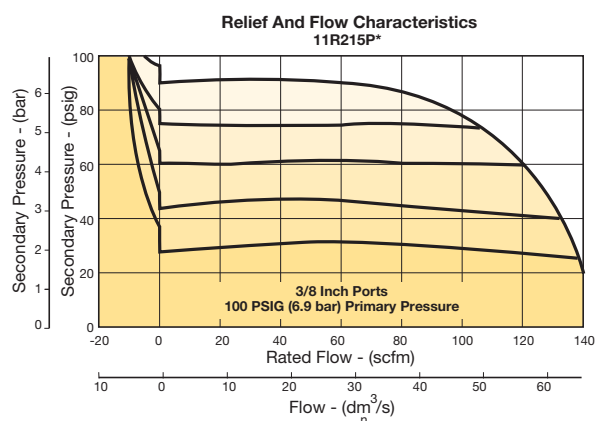
## Air Preparation Products Prep-Air® II Series

### Flow Charts

#### 11R 1/2" Regulator



#### 11R 3/8" Regulator

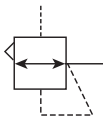


### WARNING

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

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, BSPP)



Port size	Description	Part number
1/2"	Without gauge	12R315PB
1/2"	With 160 psi gauge	12R321PB
3/4"	Without gauge	12R415PB
3/4"	With 160 psi gauge	12R421PB

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

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"

140 scfm (66 dm³/s, ANR)

3/4"

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.

Ordering information:

12R

3

15

P

B

Port Threads

1/2 inch

3

3/4 inch

4

Relief / Gauge Options

Without gauge

Non-relieving piston

14

Relieving piston

15

With gauge \*

Non-relieving piston

19

Relieving piston

21

Port Type

Blank

NPT

1

BSPP

Engineering Level

B

Current

Adjustment

P

Pilot operated

\* Includes 2" dial face gauge 0 to 300 psig.

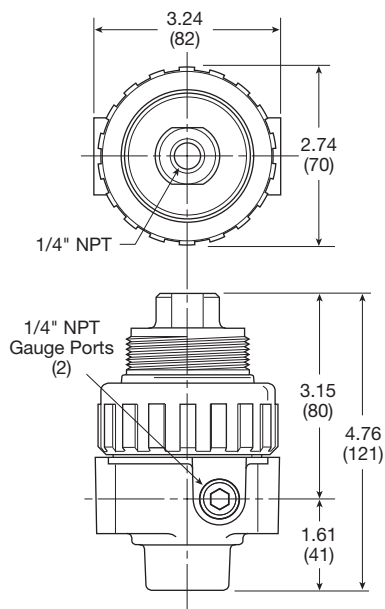
## Standard Pilot Controlled Regulators

### Material Specifications

Body & pilot cap	Zinc
Piston, valve poppet, & collar	Plastic
Seals	Nitrile
Springs	Steel

### Repair and Service Kits

Seat insert kit	<b>PS813P</b>
2" dial face 60 psig (0 to 4.1 bar)	<b>K4520N14060</b>
2" dial face 160 psig (0 to 11.0 bar)	<b>K4520N14160</b>
2" dial face 300 psig (0 to 20.7 bar)	<b>K4520N14300</b>
1-3/4" digital round face 160 psig (0 to 11.0 bar)	<b>K4517N14160D</b>
Mounting bracket kit (includes panel mount nut)	<b>PS807P</b>
Panel mount nut, plastic	<b>P04082</b>
Panel mount nut, metal	<b>P04079B</b>
Pilot conversion kit – relieving	<b>PS745P</b>
Non-relieving	<b>PS847P</b>
Relieving	<b>PS849P</b>



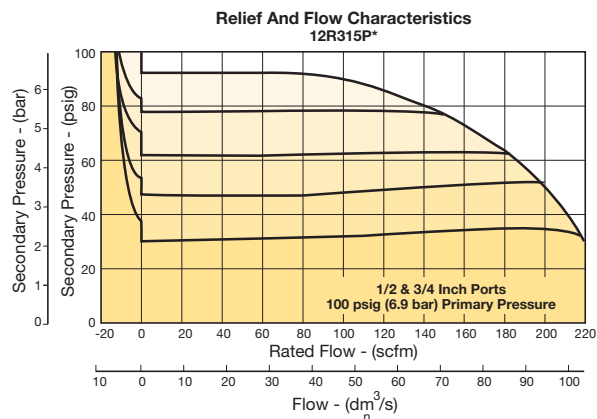
Inches (mm)

## Air Preparation Products

### Prep-Air® II Series

### Flow Charts

#### 12R 1/2 and 3/4" Regulator

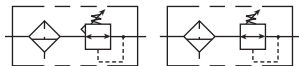


#### ⚠ WARNING

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

**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 (max):		Plastic bowl		0 to 150 psig (0 to 10.3 bar)
Operating temperature:		Plastic bowl		32°F to 125°F (0°C to 52°C)
Flow capacity†:		High flow		1/4" 30 scfm (14.2 dm³/s, ANR)
				3/8" 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.

Port size	Description ‡	Part number
1/4"	Poly bowl, metal guard, twist drain	<b>05E12A13AB</b>
1/4"	Poly bowl, metal guard, auto pulse drain	<b>05E1PA13AB</b>
3/8"	Poly bowl, metal guard, twist drain	<b>05E22A13AB</b>
3/8"	Poly bowl, metal guard, auto pulse drain	<b>05E2PA13AB</b>

‡ For polycarbonate bowl, see caution in Engineering Section A.  
NOTE: 1.53 Dia. (39 mm) hole required for panel mounting.

**Ordering information:**

**05E**

**1**

**2**

**A**

**13**

**A**

**B**

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

Bowl Options	
Poly bowl, metal bowl guard, twist drain	2
Poly bowl, metal bowl guard, auto pulse drain	P

Element	
40 Micron	A

Engineering Level	
B	Current

Relief	
A	Relieving

Pressure Range	
Without gauge	With gauge*
11 60 psig	16 60 psig
13 125 psig	18 125 psig

\* Includes 1-1/2" dial face gauge.

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

**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**

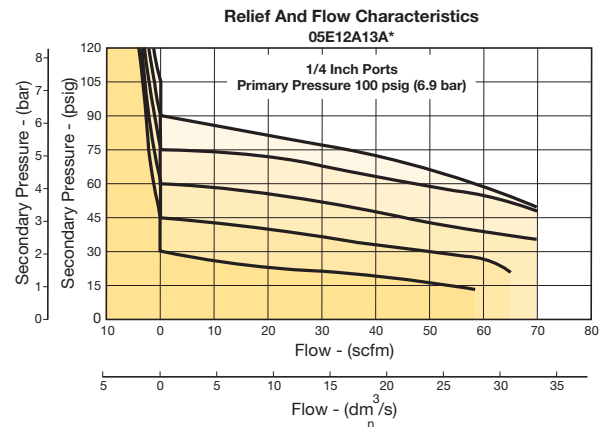
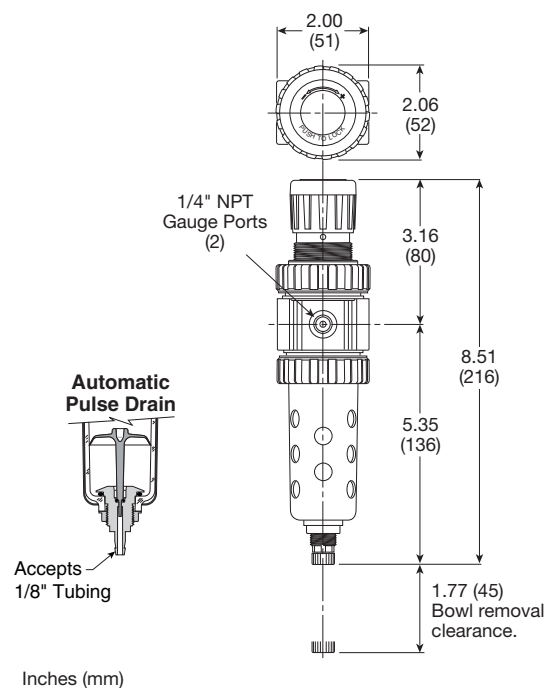
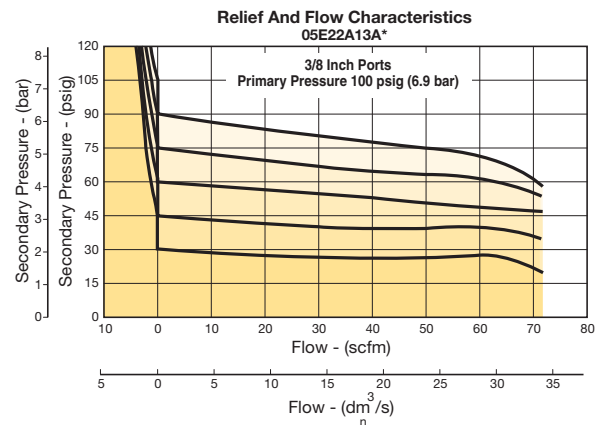
Bowl guard kit	<b>PS905P</b>
Poly bowl, automatic pulse drain	<b>PS995P</b>
Poly bowl, twist drain	<b>PS932P</b>
Auto pulse drain	<b>PS998P</b>
Twist drain	<b>PS512P</b>
40 micron element	<b>PS901P</b>
5 micron element	<b>PS902P</b>
Adsorber element	<b>PS931P</b>
Sight gauge kit	<b>PS914P</b>
1-1/2" dial face 30 psig (0 to 2.1 bar), gauge	<b>K4515N14030</b>
1-1/2" dial face 60 psig (0 to 4.1 bar), gauge	<b>K4515N14060</b>
1-1/2" dial face 160 psig (0 to 11.0 bar), gauge	<b>K4515N14160</b>
1-1/2" dial face 300 psig (0 to 20.7 bar), gauge	<b>K4515N14300</b>
2" dial face 60 psig (0 to 4.1 bar), gauge	<b>K4520N14060</b>
2" dial face 160 psig (0 to 11.0 bar), gauge	<b>K4520N14160</b>
2" dial face 300 psig (0 to 20.7 bar), gauge	<b>K4520N14300</b>
Mounting bracket kit (includes panel mount nut)	<b>PS963P</b>
Panel mount nut – metal	<b>PS964P</b>
1-30 psig spring	<b>P04427</b>
1-60 psig spring	<b>P04426</b>
2-125 psig spring	<b>P04425</b>
2-200 psig spring	<b>P02934</b>
Relieving service kit	<b>PS908P</b>
Bonnet assembly kit	<b>PS915P</b>

**WARNING**

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

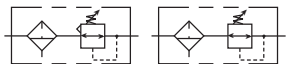
**CAUTION:**

**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  
Prep-Air® II Series****Flow Charts****05E 1/4" Filter / Regulator****05E 3/8" Filter / Regulator**

## 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, BSPP)



Port size	Description †	Part number
1/4"	Poly bowl, metal guard, twist drain	<b>06E12A13AC</b>
1/4"	Poly bowl, metal guard, auto float drain	<b>06E16A13AC</b>
1/4"	Metal bowl, sight gauge, twist drain	<b>06E14A13AC</b>
1/4"	Metal bowl, sight gauge, auto float drain	<b>06E18A13AC</b>
3/8"	Poly bowl, metal guard, twist drain	<b>06E22A13AC</b>
3/8"	Poly bowl, metal guard, auto float drain	<b>06E26A13AC</b>
3/8"	Metal bowl, sight gauge, twist drain	<b>06E24A13AC</b>
3/8"	Metal bowl, sight gauge, auto float drain	<b>06E28A13AC</b>
1/2"	Poly bowl, metal guard, twist drain	<b>06E32A13AC</b>
1/2"	Poly bowl, metal guard, auto float drain	<b>06E36A13AC</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>06E34A13AC</b>
1/2"	Metal bowl, sight gauge, auto float drain	<b>06E38A13AC</b>

† 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"



## Operating information

## Supply pressure (max):

Plastic bowl	0 to 150 psig (0 to 10.3 bar)
Metal bowl	0 to 250 psig (0 to 17.2 bar)
Auto float drain	15 to 250 psig (1.0 to 17.2 bar)

## 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)

## 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 dm³/s, ANR)
	3/8"	55 scfm (26 dm³/s, ANR)
	1/2"	61 scfm (28.8 dm³/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:

<b>06E</b>	<b>1</b>	<b>2</b>	<b>A</b>	<b>13</b>	<b>A</b>	<b>C</b>											
<b>Port Size</b> 1/4 inch 1 3/8 inch 2 1/2 inch 3						<b>Engineering Level</b> C Current	<b>Preset / Pressure Limited</b> Blank None XXX* Preset pressure XXX* Pressure limited										
<b>Bowl Options</b> Poly bowl, metal bowl guard, twist drain 2 Poly bowl, metal bowl guard, auto float drain 6 Metal bowl, twist drain 3 Metal bowl, sight gauge, twist drain 4 Metal bowl, auto float drain 7 Metal bowl, sight gauge, auto float drain 8				<b>Relief</b> A Relieving L Non-relieving				<b>Options</b> Blank No options L† Preset non-adjustable P† Preset adjustable									
		<b>Element</b> 40 Micron A 5 Micron B		<b>Pressure Range</b> <table border="1"> <tr> <th>Without gauge</th> <th>With gauge</th> </tr> <tr> <td>11 60 psig</td> <td>16 60 psig</td> </tr> <tr> <td>13 125 psig</td> <td>18 125 psig</td> </tr> <tr> <td>15* 250 psig</td> <td>21* 250 psig</td> </tr> </table>		Without gauge	With gauge	11 60 psig	16 60 psig	13 125 psig	18 125 psig	15* 250 psig	21* 250 psig			† Inlet Pressure is 100 psig. For other pressures, contact factory.	
Without gauge	With gauge																
11 60 psig	16 60 psig																
13 125 psig	18 125 psig																
15* 250 psig	21* 250 psig																
Spring Type by Preset / Limited Pressure: For Preset / Limited Pressure 26 to 50 use 60 psi spring For Preset / Limited Pressure 51 to 90 use 125 psi spring				* If 250 psig spring range is used, use metal bowl.		<b>Port Type</b> Blank NPT 1* BSPP		* 1/4 & 3/8 inch meet ISO 1179-1 standard.									

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

E26

**Parker Hannifin Corporation**  
Pneumatic Division  
Richland, Michigan  
[www.parker.com/pneumatics](http://www.parker.com/pneumatics)

## 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

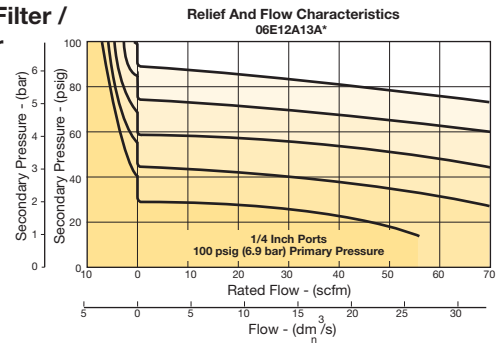
Bonnet assembly kit	<b>PS715P</b>
Bowl guard kit	<b>PS705P</b>
Poly bowl, auto float drain	<b>PS722P</b>
Poly bowl, twist drain	<b>PS732P</b>
Metal bowl, auto float drain	<b>PS726P</b>
Metal bowl, twist drain	<b>PS734P</b>
Metal bowl, sight gauge / auto drain	<b>PS723P</b>
Metal bowl, sight gauge / twist drain	<b>PS735P</b>
Control knob	<b>P04069B</b>
Auto float drain	<b>PS506P</b>
Semi-auto drain	<b>PS511P</b>
Twist drain	<b>PS512P</b>
40 micron element	<b>PS701P</b>
5 micron element	<b>PS702P</b>
Adsorber element	<b>PS731P</b>
2" dial face 60 psig (0 to 4.1 bar), gauge	<b>K4520N14060</b>
2" dial face 160 psig (0 to 11.0 bar), gauge	<b>K4520N14160</b>
2" dial face 300 psig (0 to 20.7 bar), gauge	<b>K4520N14300</b>
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	<b>K4517N14160D</b>
Mounting bracket kit (includes panel mount nut)	<b>PS707P</b>
Panel mount nut	<b>P04082</b>
Non-relieving (includes poppet)	<b>PS711P</b>
Relieving (includes poppet)	<b>PS710P</b>
Seat insert kit	<b>PS713P</b>
1- 30 psig spring	<b>P01698</b>
1- 60 psig spring	<b>P04062</b>
2- 125 psig spring	<b>P04063</b>
5- 250 psig spring	<b>P04064</b>
Tamperproof kit (key lock)	<b>PS737P</b>

### WARNING

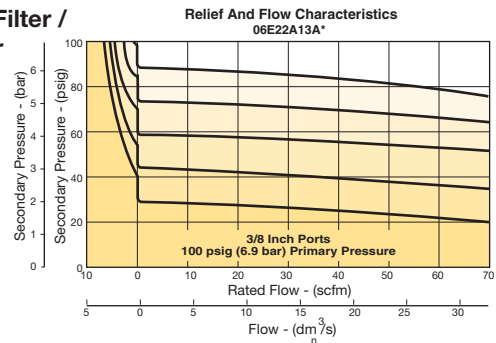
**Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed Maximum primary pressure rating.**

## Flow Charts

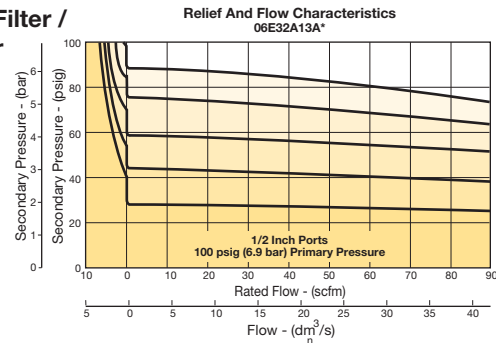
### 06E 1/4" Filter / Regulator



### 06E 3/8" Filter / Regulator

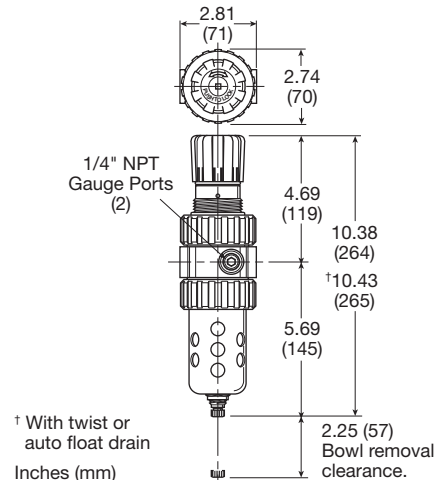


### 06E 1/2" Filter / Regulator



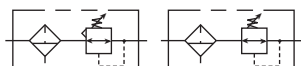
## CAUTION:

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



## 07E Filter / Regulator – 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, BSPP)



### Operating information

Supply pressure (max):		
Plastic bowl		0 to 150 psig (0 to 10.3 bar)
Metal bowl		0 to 250 psig (0 to 17.2 bar)
Auto float drain		15 to 250 psig (1.0 to 17.2 bar)
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)
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	1/2"	90 scfm (42.5 dm³/s, ANR)
	3/4"	90 scfm (42.5 dm³/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 100 psig inlet, 90 psig no flow secondary setting and 10 psig pressure drop.		

Port size	Description ‡	Part number
1/2"	Poly bowl, metal guard, twist drain	<b>07E32A13AC</b>
1/2"	Poly bowl, metal guard, auto float drain	<b>07E36A13AC</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>07E34A13AC</b>
1/2"	Metal bowl, sight gauge, auto float drain	<b>07E38A13AC</b>
3/4"	Poly bowl, metal guard, twist drain	<b>07E42A13AC</b>
3/4"	Poly bowl, metal guard, auto float drain	<b>07E46A13AC</b>
3/4"	Metal bowl, sight gauge, twist drain	<b>07E44A13AC</b>
3/4"	Metal bowl, sight gauge, auto float drain	<b>07E48A13AC</b>

‡ 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".

### Ordering information:

<b>07E</b>	<b>3</b>	<b>2</b>	<b>A</b>	<b>13</b>	<b>A</b>	<b>C</b>											
<b>Port Size</b> 1/2 inch 3 3/4 inch 4						<b>Engineering Level</b> C Current	<b>Preset / Pressure Limited</b> Blank None XXX* Preset pressure XXX* Pressure limited * Available preset range, 10 to 90 psig in 5 psig increments. For higher pressures, contact factory. (Example: 065 = 65 psig)										
<b>Bowl Options</b> Poly bowl, metal bowl guard, twist drain 2 Poly bowl, metal bowl guard, auto float drain 6 Metal bowl, twist drain 3 Metal bowl, sight gauge, twist drain 4 Metal bowl, auto float drain 7 Metal bowl, sight gauge, auto float drain 8				<b>Relief</b> A Relieving L Non-relieving				<b>Options</b> Blank No options L† Preset non-adjustable P† Preset adjustable † Inlet Pressure is 100 psig. For other pressures, contact factory.									
		<b>Element</b> 40 Micron A 5 Micron B		<b>Pressure Range</b> <table border="1"> <tr> <th>Without gauge</th> <th>With gauge</th> </tr> <tr> <td>11 60 psig</td> <td>16 60 psig</td> </tr> <tr> <td>13 125 psig</td> <td>18 125 psig</td> </tr> <tr> <td>15* 250 psig</td> <td>21* 250 psig</td> </tr> </table> * If 250 psig spring range is used, use metal bowl.		Without gauge	With gauge	11 60 psig	16 60 psig	13 125 psig	18 125 psig	15* 250 psig	21* 250 psig			<b>Port Type</b> Blank NPT 1* BSPP * 1/2 & 3/4 inch meet ISO 1179-1 standard.	
Without gauge	With gauge																
11 60 psig	16 60 psig																
13 125 psig	18 125 psig																
15* 250 psig	21* 250 psig																

Spring Type by Preset / Limited Pressure:  
 For Preset / Limited Pressure 26 to 50 use 60 psi spring  
 For Preset / Limited Pressure 51 to 90 use 125 psi spring

Most popular.

## Material Specifications

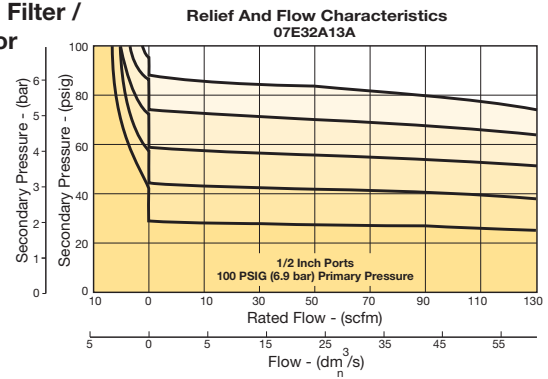
Adjusting stem	Steel
Body	Zinc
Bonnet, internal parts	Plastic
Transparent bowl	Polycarbonate
Metal bowl (with or without sight gauge)	Zinc
Bowl guard	Steel
Collar	Plastic or metal
Diaphragm	Nitrile
Manual twist drain, standard, body & nut	Plastic
Auto float drain, housing, float	Plastic
Auto float drain, 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

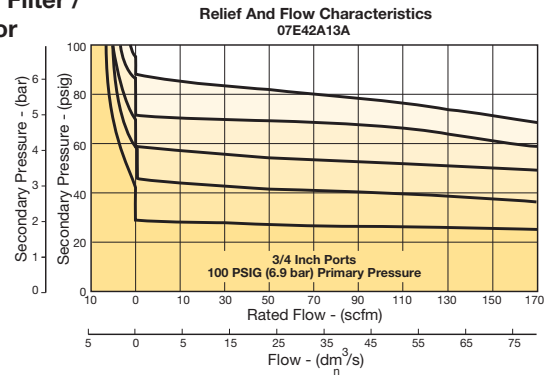
Bonnet assembly kit	<b>PS715P</b>
Bowl guard kit	<b>PS805P</b>
Poly bowl, auto float drain	<b>PS822P</b>
Poly bowl, twist drain	<b>PS832P</b>
Metal bowl, automatic float drain	<b>PS826P</b>
Metal bowl, twist drain	<b>PS834P</b>
Metal bowl, sight gauge / auto drain	<b>PS823P</b>
Metal bowl, sight gauge / twist drain	<b>PS835P</b>
Control knob	<b>P04069B</b>
Auto float drain	<b>PS506P</b>
Twist drain	<b>PS512P</b>
40 micron element	<b>PS801P</b>
5 micron element	<b>PS802P</b>
Adsorber element	<b>PS831P</b>
2" dial face 60 psig (0 to 4.1 bar), gauge	<b>K4520N14060</b>
2" dial face 160 psig (0 to 11.0 bar), gauge	<b>K4520N14160</b>
2" dial face 300 psig (0 to 20.7 bar), gauge	<b>K4520N14300</b>
1-3/4" Digital Round Face 160 psig (0 to 11.0 bar)	<b>K4517N14160D</b>
Mounting bracket kit (includes panel mount nut)	<b>PS807P</b>
Panel mount nut	<b>P04082</b>
Non-relieving (includes poppet)	<b>PS811P</b>
Relieving (includes poppet)	<b>PS810P</b>
Seat insert kit	<b>PS813P</b>
1- 30 psig spring	<b>P01698</b>
1- 60 psig spring	<b>P04062</b>
2- 125 psig spring	<b>P04063</b>
5- 250 psig spring	<b>P04064</b>
Tamperproof kit (key lock)	<b>PS737P</b>

## Flow Charts

### 07E 1/2" Filter / Regulator



### 07E 3/4" Filter / Regulator

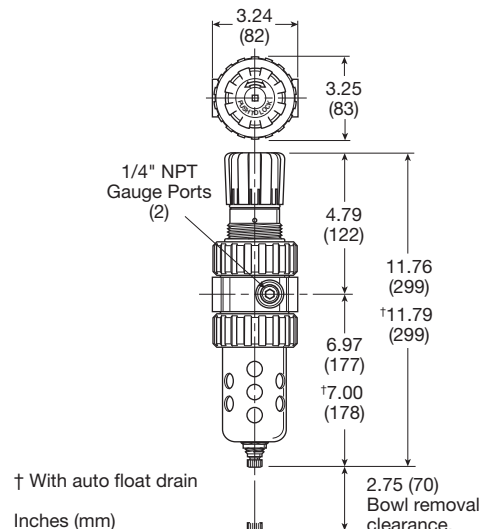


## WARNING

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

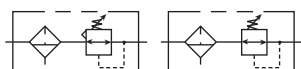
## CAUTION:

**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.



## 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, BSPP)



Port size	Description ‡	Part number
1/2"	Metal bowl, twist drain	<b>12E33E13AA</b>
1/2"	Metal bowl, auto float drain	<b>12E37E13AA</b>
3/4"	Metal bowl, twist drain	<b>12E43E13AA</b>
3/4"	Metal bowl, auto float drain	<b>12E47E13AA</b>

‡ 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"

## Operating information

Supply pressure (max):	
Metal bowl	0 to 250 psig (0 to 17.2 bar)
Operating temperature:	
Metal bowl	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	1/2" 40 scfm (18.9 dm³/s, ANR)
	3/4" 45 scfm (21.2 dm³/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:

<b>12E</b>	<b>3</b>	<b>2</b>	<b>E</b>	<b>13</b>	<b>A</b>	<b>A</b>																			
<b>Port Size</b> 1/2 inch 3 3/4 inch 4						<b>Engineering Level</b> A Current	<b>Preset / Pressure Limited</b> Blank None XXX* Preset pressure XXX* Pressure limited * Available preset range, 10 to 90 psig in 5 psig increments. For higher pressures, contact factory. (Example: 065 = 65 psig)																		
<b>Bowl Options</b> Metal bowl, twist drain 3 Metal bowl, auto float drain 7						<b>Relief</b> A Relieving L Non-relieving	<b>Options</b> Blank No options L† Preset non-adjustable P† Preset adjustable † Inlet Pressure is 100 psig. For other pressures, contact factory.																		
		<b>Element</b> Grade 6 E Grade 10 H		<b>Pressure Range</b> <table border="1"> <tr> <th colspan="2">Without gauge</th> <th colspan="2">With gauge</th> </tr> <tr> <td>11</td> <td>60 psig</td> <td>16</td> <td>60 psig</td> </tr> <tr> <td>13</td> <td>125 psig</td> <td>18</td> <td>125 psig</td> </tr> <tr> <td>15*</td> <td>250 psig</td> <td>21*</td> <td>250 psig</td> </tr> </table> * If 250 psig spring range is used, use metal bowl.		Without gauge		With gauge		11	60 psig	16	60 psig	13	125 psig	18	125 psig	15*	250 psig	21*	250 psig			<b>Port Type</b> Blank NPT 1* BSPP * 1/2 inch meet ISO 1179-1 standard.	
Without gauge		With gauge																							
11	60 psig	16	60 psig																						
13	125 psig	18	125 psig																						
15*	250 psig	21*	250 psig																						

Spring Type by Preset / Limited Pressure:  
 For Preset / Limited Pressure 10 to 25 use 30 psi spring  
 For Preset / Limited Pressure 26 to 50 use 60 psi spring  
 For Preset / Limited Pressure 51 to 90 use 125 psi spring

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

E30

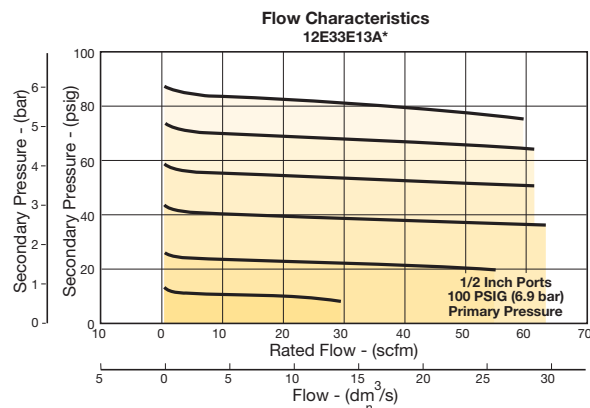
**Parker Hannifin Corporation**  
 Pneumatic Division  
 Richland, Michigan  
[www.parker.com/pneumatics](http://www.parker.com/pneumatics)

**Coalescing Filter / Regulators****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**

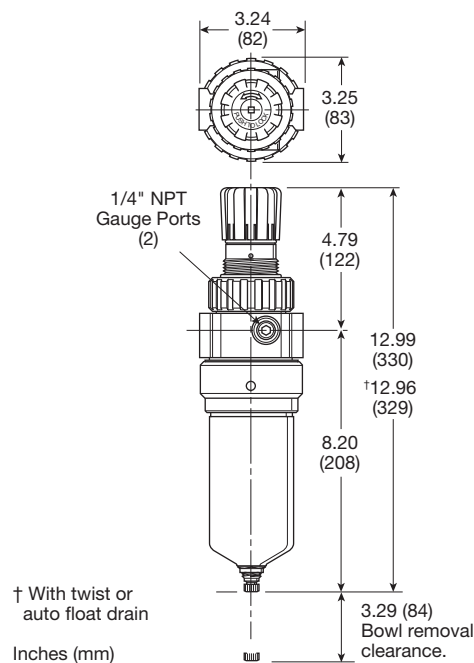
Bonnet assembly kit	<b>PS715P</b>
Metal bowl, auto float drain	<b>PS826P</b>
Metal bowl, twist drain	<b>PS834P</b>
Control knob	<b>P04069B</b>
Auto float drain	<b>PS506P</b>
Twist drain	<b>PS512P</b>
Grade 6 element (0.01 micron)	<b>PS884P</b>
Grade 10 element (1.0 micron)	<b>PS885P</b>
2" dial face 60 psig (0 to 4.1 bar), gauge	<b>K4520N14060</b>
2" dial face 160 psig (0 to 11.0 bar), gauge	<b>K4520N14160</b>
2" dial face 300 psig (0 to 20.7 bar), gauge	<b>K4520N14300</b>
1-3/4" digital round face 160 psig (0 to 11.0 bar), gauge	<b>K4517N14160D</b>
Mounting bracket kit (includes panel mount nut)	<b>PS807P</b>
Relieving (includes poppet)	<b>PS886P</b>
1- 30 psig spring	<b>P01698</b>
1- 60 psig spring	<b>P04062</b>
2- 125 psig spring	<b>P04063</b>
5- 250 psig spring	<b>P04064</b>
Tamperproof kit (key lock)	<b>PS737P</b>

**Air Preparation Products**  
**Prep-Air® II Series****Flow Charts****12E 1/2" 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.



**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 1/4" & 3/8" (NPT)



Port size	Description ‡	Part number
1/4"	Poly bowl, metal guard, no drain	<b>15L12NA</b>
3/8"	Poly bowl, metal guard, no drain	<b>15L22NA</b>

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

Operating information	
Supply pressure (max): Plastic bowl	150 psig (10.3 bar)
Operating temperature: Plastic bowl	32°F to 125°F (0°C to 52°C)
Flow capacity†:	
High flow	1/4" 40 scfm (18.9 dm³/s, ANR) 3/8" 40 scfm (18.9 dm³/s, ANR)
Minimum flow	2 scfm (0.9 dm³/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:**

**15L**

**1**

**2**

**N**

**A**

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

Bowl Options	
Poly bowl with metal bowl guard, no drain	2

Fill Options	
B With fill plug	
N No fill plug	

Engineering Level	
A Current	

**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.)

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

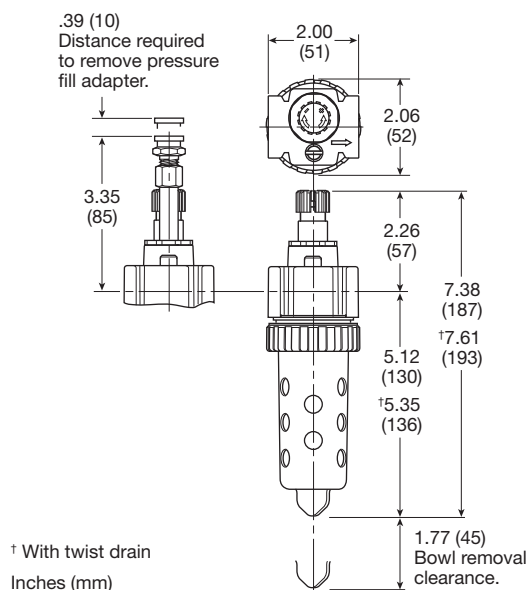
## Economy Micro-Mist Lubricators

### 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

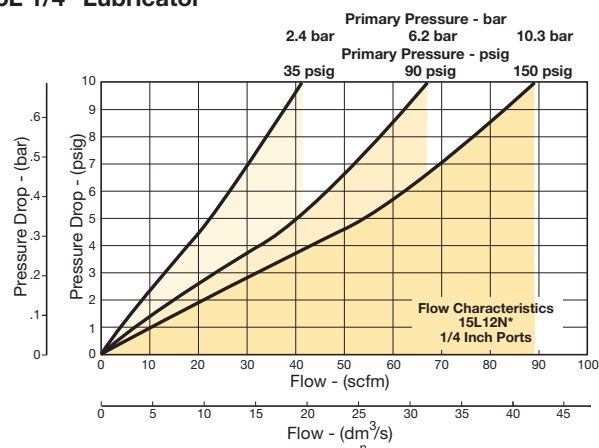
Adjustment knob	<b>P04121</b>
Bowl guard kit	<b>PS905P</b>
Poly bowl, no drain	<b>PS946P</b>
Twist drain	<b>PS512P</b>
Mounting bracket kit	<b>PS943P</b>
Service kit	<b>PS948P</b>
Sight dome kit	<b>PS740P</b>
Sight gauge kit	<b>PS914P</b>
Oil (1 quart)	<b>F442001</b>
Oil (1 gallon)	<b>F442002</b>
Oil (12 quart case)	<b>F442003</b>
Oil (4 gallon case)	<b>F442005</b>



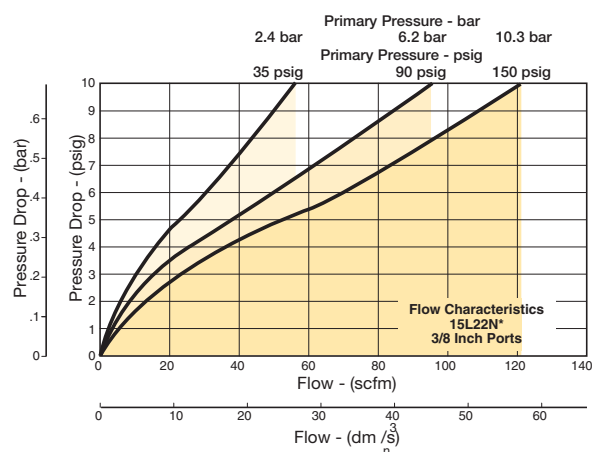
## Air Preparation Products Prep-Air® II Series

### Flow Charts

#### 15L 1/4" Lubricator



#### 15L 3/8" Lubricator



Prep-Air® II  
Products

F

Filters

Coalescers

Regulators

Filter /  
Regulators

Lubricators

Combinations

Accessories

## 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, BSPP)



## Operating information

Supply pressure (max):		
Plastic bowl		150 psig (10.3 bar)
Metal bowl		250 psig (17.2 bar)
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)
Flow capacity†:		
High flow	1/4"	40 scfm (18.9 dm³/s, ANR)
	3/8"	60 scfm (28.3 dm³/s, ANR)
	1/2"	90 scfm (42.5 dm³/s, ANR)
Minimum flow		1 scfm (0.5 dm³/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.		

Port size	Description ‡	Part number
1/4"	Poly bowl, metal guard, no drain	<b>16L12BE</b>
1/4"	Metal bowl, sight gauge, twist drain	<b>16L14BE</b>
3/8"	Poly bowl, metal guard, no drain	<b>16L22BE</b>
3/8"	Metal bowl, sight gauge, twist drain	<b>16L24BE</b>
1/2"	Poly bowl, metal guard, no drain	<b>16L32BE</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>16L34BE</b>

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

## Ordering information:

<div>16L</div>	<div>1</div>	<div>2</div>	<div>B</div>	<div>E</div>	<div></div>																				
<table><tr><th colspan="2">Port Size</th></tr><tr><td>1/4 inch</td><td>1</td></tr><tr><td>3/8 inch</td><td>2</td></tr><tr><td>1/2 inch</td><td>3</td></tr></table>	Port Size		1/4 inch	1	3/8 inch	2	1/2 inch	3					<table><tr><th colspan="2">Port Type</th></tr><tr><td>Blank</td><td>NPT</td></tr><tr><td>1*</td><td>BSPP</td></tr></table> <p>* 1/4 &amp; 3/8 inch meet ISO 1179-1 Standard.</p>	Port Type		Blank	NPT	1*	BSPP						
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**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.)

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

E34

**Parker Hannifin Corporation**  
Pneumatic Division  
Richland, Michigan  
[www.parker.com/pneumatics](http://www.parker.com/pneumatics)

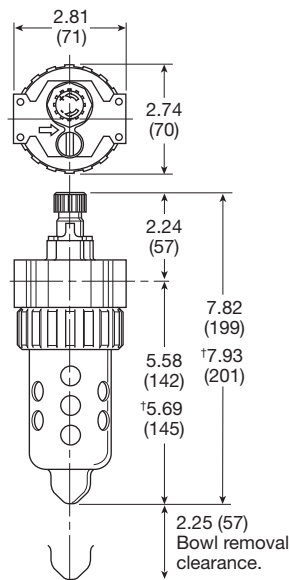
## Compact Micro-Mist Lubricators

### 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	<b>P04121</b>
Bowl guard kit	<b>PS705P</b>
Poly bowl / no drain kit	<b>PS746P</b>
Poly bowl / twist drain kit	<b>PS717P</b>
Poly bowl / pressure fill kit	<b>PS719P</b>
Poly bowl / remote fill kit	<b>PS728P</b>
Metal bowl / sight gauge / twist drain kit	<b>PS729P</b>
Metal bowl / sight gauge / pressure fill kit	<b>PS720P</b>
Twist drain kit	<b>PS512P</b>
Fill cap kit	<b>PS742P</b>
Lubricator service kit	<b>PS748P</b>
Mounting bracket kit	<b>PS743P</b>
Pressure fill adapter kit	<b>PS716P</b>
Pressure fill button	<b>P11912</b>
Remote auto-fill device	<b>PS505CP</b>
Sight dome / fill cap kit	<b>PS739P</b>
Sight dome kit, polycarbonate	<b>PS740P</b>
Sight dome kit, nylon	<b>PS740N</b>
Oil (1 quart)	<b>F442001</b>
Oil (1 gallon)	<b>F442002</b>
Oil (12 quart case)	<b>F442003</b>
Oil (4 gallon case)	<b>F442005</b>

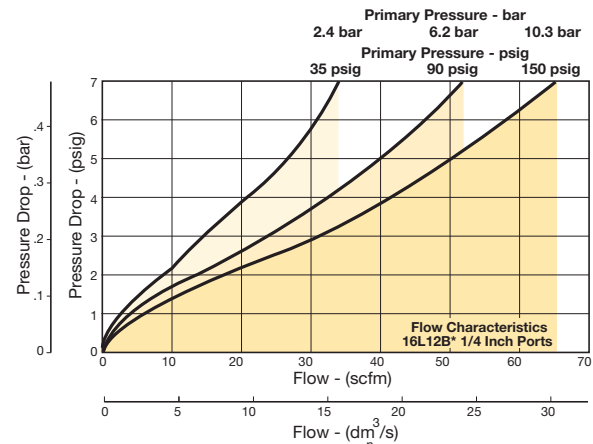


† With twist drain  
Inches (mm)

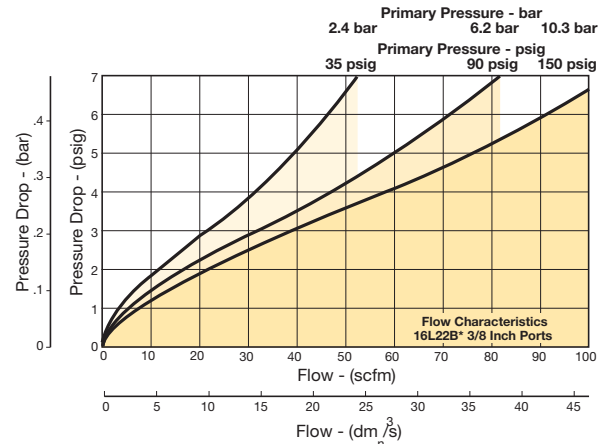
## Air Preparation Products Prep-Air® II Series

### Flow Charts

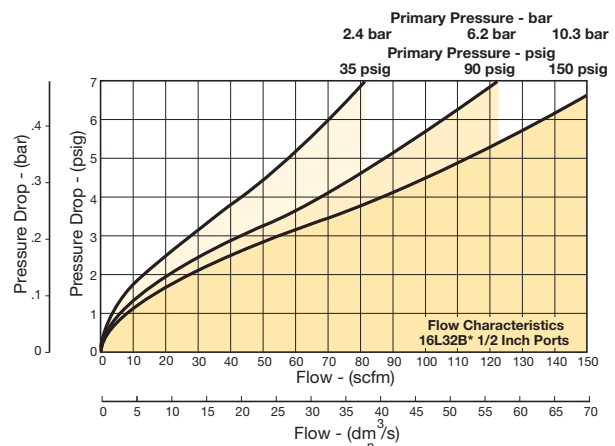
#### 16L 1/4" Lubricator



#### 16L 3/8" Lubricator



#### 16L 1/2" Lubricator



Prep-Air® II  
Products

**F**

Filters

Coalescers

Regulators

Filter /  
Regulators

Lubricators

Combinations

Accessories



For inventory, lead time, and kit  
lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## 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, BSPP)



### Operating information

#### Supply pressure (max):

Plastic bowl	150 psig (10.3 bar)
Metal bowl	250 psig (17.2 bar)

#### 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)

#### Flow capacity†:

High flow	1/2"	90 scfm (42.5 dm³/s, ANR)
	3/4"	90 scfm (42.5 dm³/s, ANR)

Minimum flow	1 scfm (0.5 dm³/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.

Port size	Description ‡	Part number
1/2"	Poly bowl, metal guard, no drain	<b>17L32BE</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>17L34BE</b>
3/4"	Poly bowl, metal guard, no drain	<b>17L42BE</b>
3/4"	Metal bowl, sight gauge, twist drain	<b>17L44BE</b>

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

### Ordering information:

17L	3	2	B	E																					
<table><tr><th colspan="2">Port Size</th></tr><tr><td>1/2 inch</td><td>3</td></tr><tr><td>3/4 inch</td><td>4</td></tr></table>		Port Size		1/2 inch	3	3/4 inch	4				<table><tr><th colspan="2">Port Type</th></tr><tr><td>Blank</td><td>NPT</td></tr><tr><td>1*</td><td>BSPP</td></tr></table> <p>* 1/2 inch meet ISO 1179-1 Standard.</p>	Port Type		Blank	NPT	1*	BSPP								
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#### 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.)

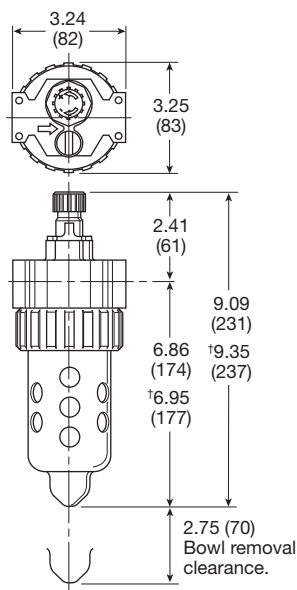
Most popular.



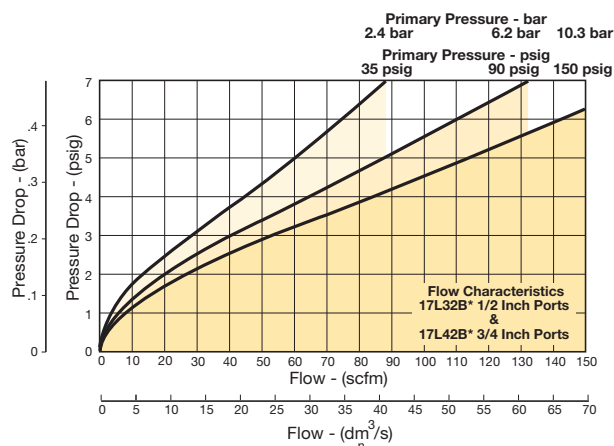
For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

**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)



† With twist drain  
Inches (mm)

**Air Preparation Products  
Prep-Air® II Series****Flow Charts****17L 1/2" & 3/4" Lubricator****Repair and Service Kits**

Adjustment knob	<b>P04121</b>
Bowl guard kit	<b>PS805P</b>
Poly bowl / no drain kit	<b>PS846P</b>
Poly bowl / twist drain kit	<b>PS817P</b>
Poly bowl / pressure fill kit	<b>PS819P</b>
Poly bowl / remote fill kit	<b>PS828P</b>
Metal bowl / sight gauge / twist drain kit	<b>PS829P</b>
Metal bowl / sight gauge / pressure fill kit	<b>PS820P</b>
Twist drain kit	<b>PS512P</b>
Fill cap kit	<b>PS742P</b>
Lubricator service kit	<b>PS748P</b>
Mounting bracket kit	<b>PS843P</b>
Pressure fill adapter kit	<b>PS716P</b>
Pressure fill button	<b>P11912</b>
Remote auto-fill device	<b>PS505CP</b>
Sight dome / fill cap kit	<b>PS739P</b>
Sight dome kit, polycarbonate	<b>PS740P</b>
Sight dome kit, nylon	<b>PS740N</b>
Oil (1 quart)	<b>F442001</b>
Oil (1 gallon)	<b>F442002</b>
Oil (12 quart case)	<b>F442003</b>
Oil (4 gallon case)	<b>F442005</b>

## 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, BSPP)



Port size	Description †	Part number
1/4"	Poly bowl, metal guard, no drain	<b>06L12BE</b>
1/4"	Metal bowl, sight gauge, twist drain	<b>06L14BE</b>
3/8"	Poly bowl, metal guard, no drain	<b>06L22BE</b>
3/8"	Metal bowl, sight gauge, twist drain	<b>06L24BE</b>
1/2"	Poly bowl, metal guard, no drain	<b>06L32BE</b>
1/2"	Metal bowl, sight gauge, twist drain	<b>06L34BE</b>

† For polycarbonate bowl and sight dome, see caution in Engineering Section A.

## Operating information

## Supply pressure (max):

Plastic bowl	150 psig (10.3 bar)
Metal bowl	250 psig (17.2 bar)

## 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)

## Flow capacity†:

High flow	1/4"	40 scfm (18.9 dm³/s, ANR)
	3/8"	60 scfm (28.3 dm³/s, ANR)
	1/2"	90 scfm (42.5 dm³/s, ANR)

Minimum flow 0.5 2 scfm (0.24 dm³/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:

<b>06L</b>	<b>1</b>	<b>2</b>	<b>B</b>	<b>E</b>	
<b>Port Size</b>	<b>1</b>	<b>2</b>			<b>Port Type</b>
1/4 inch	1				Blank NPT
3/8 inch	2				1* BSPP
1/2 inch	3				* 1/4 & 3/8 inch meet ISO 1179-1 Standard.
<b>Bowl Options</b>				<b>Engineering Level</b>	
Poly bowl, metal bowl guard, no drain	2			E	Current
Poly bowl, metal bowl guard, pressure fill	6				
Poly bowl, metal bowl guard, auto fill device	K				
Poly bowl, metal bowl guard, twist drain	N				
Metal bowl, sight gauge, twist drain	4				
Metal bowl, sight gauge, pressure fill	8				
Metal bowl, sight gauge, auto fill device	M				
				<b>Fill Options</b>	
			B	With fill plug	
			C	With fill plug / nylon sight dome	
			F	With body pressure fill	
			G	With body pressure fill / nylon sight dome	

## 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.)

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

E38

**Parker Hannifin Corporation**  
Pneumatic Division  
Richland, Michigan  
[www.parker.com/pneumatics](http://www.parker.com/pneumatics)

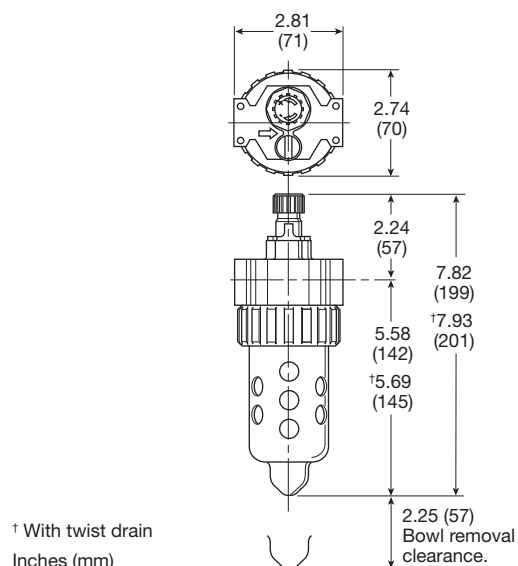
## Compact Mist Lubricators

### 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	<b>P04121</b>
Bowl guard kit	<b>PS705P</b>
Poly bowl / no drain kit	<b>PS746P</b>
Poly bowl / twist drain kit	<b>PS717P</b>
Poly bowl / pressure fill kit	<b>PS719P</b>
Poly bowl / remote fill kit	<b>PS728P</b>
Metal bowl / sight gauge / twist drain kit	<b>PS729P</b>
Metal bowl / sight gauge / pressure fill kit	<b>PS720P</b>
Twist drain kit	<b>PS512P</b>
Fill cap kit	<b>PS741P</b>
Lubricator service kit	<b>PS718P</b>
Mounting bracket kit	<b>PS743P</b>
Pressure fill adapter kit	<b>PS716P</b>
Pressure fill button	<b>P11912</b>
Remote auto-fill device	<b>PS505CP</b>
Sight dome / fill cap kit	<b>PS738P</b>
Sight dome kit, polycarbonate	<b>PS740P</b>
Sight dome kit, nylon	<b>PS740N</b>
Oil (1 quart)	<b>F442001</b>
Oil (1 gallon)	<b>F442002</b>
Oil (12 quart case)	<b>F442003</b>
Oil (4 gallon case)	<b>F442005</b>

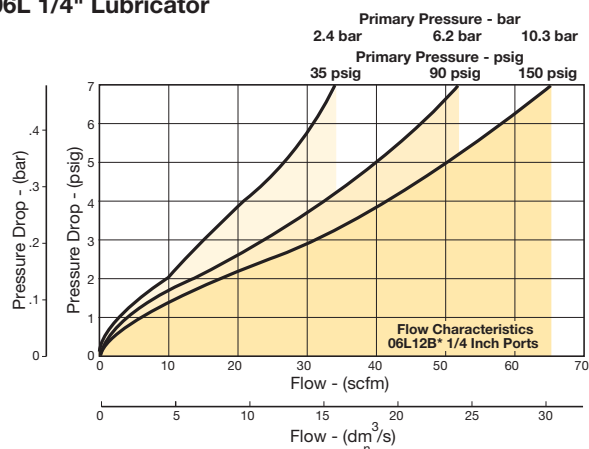


## Air Preparation Products

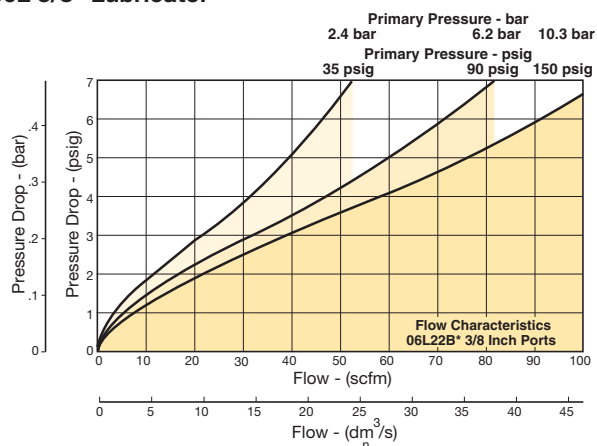
### Prep-Air® II Series

### Flow Charts

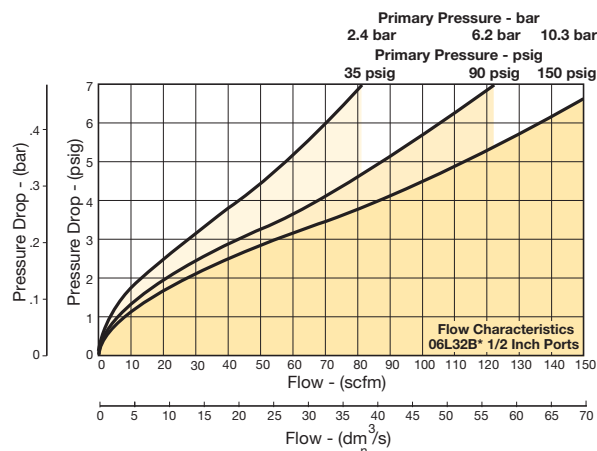
#### 06L 1/4" Lubricator



#### 06L 3/8" Lubricator



#### 06L 1/2" Lubricator



Prep-Air® II  
Products

F

Filters

Coalescers

Regulators

Filter /  
Regulators

Lubricators

Combinations

Accessories



For inventory, lead time, and kit  
lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

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, BSPP)



Port size	Description ‡	Part number
1/2"	Poly bowl, metal guard, no drain	07L32BE
1/2"	Metal bowl, sight gauge, twist drain	07L34BE
3/4"	Poly bowl, metal guard, no drain	07L42BE
3/4"	Metal bowl, sight gauge, twist drain	07L44BE

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

Operating information

Supply pressure (max):		
Plastic bowl		150 psig (10.3 bar)
Metal bowl		250 psig (17.2 bar)
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)
Flow capacity†:		
High flow	1/2"	90 scfm (42.5 dm³/s, ANR)
	3/4"	90 scfm (42.5 dm³/s, ANR)
Minimum flow		0.5 2 scfm (0.24 dm³/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:

07L

3

2

B

E

Port Size	
1/2 inch	3
3/4 inch	4

Bowl Options	
Poly bowl, metal bowl guard, no drain	2
Poly bowl, metal bowl guard, pressure fill	6
Poly bowl, metal bowl guard, auto fill device	K
Poly bowl, metal bowl guard, twist drain	N
Metal bowl, sight gauge, twist drain	4
Metal bowl, sight gauge, pressure fill	8
Metal bowl, sight gauge, auto fill device	M

Port Type	
Blank	NPT
1*	BSPP

\* 1/2 inch meet ISO 1179-1 Standard.

Engineering Level	
E	Current

Fill Options	
B	With fill plug
C	With fill plug / nylon sight dome
F	With body pressure fill
G	With body pressure fill / nylon sight dome

**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.)

Most popular.

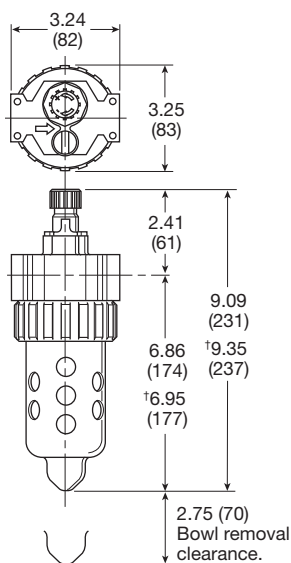


For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## Standard 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)

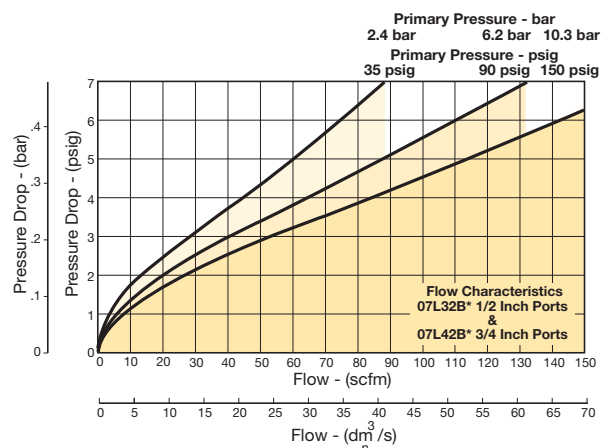


† With twist drain  
Inches (mm)

## Air Preparation Products Prep-Air® II Series

### Flow Charts

#### 07L 1/2" & 3/4" Lubricator



### Repair and Service Kits

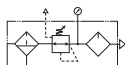
Adjustment knob	P04121
Bowl guard kit	PS805P
Poly bowl / no drain	PS846P
Poly bowl / twist drain	PS817P
Poly bowl / pressure fill	PS819P
Poly bowl / remote fill	PS828P
Metal bowl / sight gauge / twist drain	PS829P
Metal bowl / sight gauge / pressure fill	PS820P
Twist drain kit	PS512P
Fill cap kit	PS741P
Lubricator service kit	PS718P
Mounting bracket kit	PS843P
Pressure fill adapter kit	PS716P
Pressure fill button	P11912
Remote auto-fill device	PS505CP
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

## 06 Compact, 07 Standard Close Nipped 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



### Close Nipped Combinations



Port	Bowl type ‡	Element type	Filter drain type	Relief type	Lubricator drain type	Series	Part numbers	
							Series†	Part numbers
06G Shown	1/4"	Poly / Metal guard	40 micron	Twist	Relieving	06G		06G12A13A2BC
	3/8"	Poly / Metal guard	40 micron	Twist	Relieving		16G	16G22A13A2BC
	1/2"	Poly / Metal guard	40 micron	Twist	Relieving			16G32A13A2BC
	1/2"	Poly / Metal guard	40 micron	Twist	Relieving	07G		07G32A13A2BD
	3/4"	Poly / Metal guard	40 micron	Twist	Relieving		17G	17G42A13A2BD
Port	Bowl type ‡	Element type	Filter drain type	Relief type	Lubricator drain type	Series	Model numbers	
							Series†	Model numbers
06A Shown	1/4"	Poly / Metal guard	40 micron	Twist	Relieving	06A		06A12A13A2BC
	3/8"	Poly / Metal guard	40 micron	Twist	Relieving		16A	16A22A13A2BC
	1/2"	Poly / Metal guard	40 micron	Twist	Relieving			16A32A13A2BC
	1/2"	Poly / Metal guard	40 micron	Twist	Relieving	07A		07A32A13A2BD
	3/4"	Poly / Metal guard	40 micron	Twist	Relieving		17A	17A42A13A2BD

\* 06 / 16 Available with port blocks only

‡ For polycarbonate bowl, see caution in Engineering Section A

† 16G / 16A and 17G / 17A are Micro Mist version lubricators



### 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.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## Ordering information:

Series	16A	1	2	A	13	A	2	B	C
Micro-mist compact, 3-unit	16A								
Micro-mist standard, 3-unit	17A								
Micro-mist compact, 2-unit	16G								
Micro-mist standard, 2-unit	17G								
Mist compact, 3-unit	06A								
Mist standard, 3-unit	07A								
Mist compact, 2-unit	06G								
Mist standard, 2-unit	07G								

Port Size	1	2	3	4
1/4 inch	1			
3/8 inch (06/16)		2		
1/2 inch			3	
3/4 inch (07/17)				4

Filter Bowl Options	
Poly bowl, metal bowl guard, twist drain	2
Poly bowl, metal bowl guard, auto float drain	6
Metal bowl, twist drain	3
Metal bowl, sight gauge, auto float drain	4
Metal bowl, auto float drain	7
Metal bowl, sight gauge, auto float drain	8

Filter Element	A	B
40 Micron	A	
5 Micron		B

Engineering Level	
C	06A, 16A, 06G, 16G current
D	07A, 17A, 07G, 17G current

Lubricator Body Options	
B	With fill plug
F	With body pressure fill

Lubricator Bowl Options	
2	Poly bowl, metal bowl guard, no drain
6	Poly bowl, bowl guard, pressure fill
K	Poly bowl, metal bowl guard, auto fill
N	Poly bowl, metal bowl guard, twist drain
4	Metal bowl, sight gauge, twist drain
8	Metal bowl, sight gauge, pressure fill
M	Metal bowl, sight gauge, auto fill

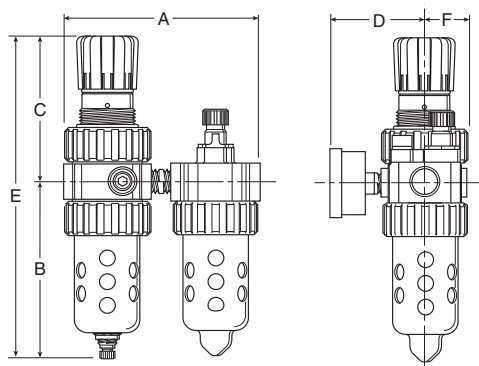
  

Relief	
A	Relieving
L	Non-relieving

Pressure Range			
Without gauge		With gauge	
11	60 psig	16	60 psig
13	125 psig	18	125 psig
15*	250 psig	21*	250 psig

\* Only available on metal bowl.



## 06G, 16G Series

A	B	C	D	E	F
6.13 (156)	5.69 (145)	4.69 (119)	3.18 (81)	10.38 (264)	1.37 (35)

## 07G, 17G Series

A	B	C	D	E	F
6.99 (178)	6.97 (177)	4.79 (122)	3.44 (87)	11.76 (299)	1.63 (41)

Inches (mm)

• All dimensions nominal.

## 06A, 16A Series

A	B	C	D	E	F
9.45 (240)	5.69 (145)	2.24 (57)	3.18 (81)	7.93 (201)	1.37 (35)

## 07A, 17A Series

A	B	C	D	E	F
10.74 (2738)	6.97 (177)	2.41 (61)	3.44 (87)	9.38 (238)	1.63 (41)

Inches (mm)

• All dimensions nominal.

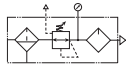
For inventory, lead time, and kit  
lookup, visit [www.pdnplu.com](http://www.pdnplu.com)



## 06 Compact, 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



### Modular Combinations



	Port	Bowl type ‡	Element type	Filter drain type	Relief type	Lubricator drain type	Series	Part numbers	Series †	Part numbers
 06H Shown	1/4"	Poly / metal guard	40 micron	Twist	Relieving	None	06H	<b>06H12A13A2BC</b>	16H	<b>16H12A13A2BC</b>
	3/8"	Poly / metal guard	40 micron	Twist	Relieving	None		<b>06H22A13A2BC</b>		<b>16H22A13A2BC</b>
	1/2" *	Poly / metal guard	40 micron	Twist	Relieving	None		<b>06H32A13A2BCG</b>		<b>16H32A13A2BCG</b>
	1/2"	Poly / metal guard	40 micron	Twist	Relieving	None	07H	<b>07H32A13A2BD</b>	17H	<b>17H32A13A2BD</b>
	3/4"	Poly / metal guard	40 micron	Twist	Relieving	None		<b>07H42A13A2BD</b>		<b>17H42A13A2BD</b>
	Port	Bowl type ‡	Element type	Filter drain type	Relief type	Lubricator drain type	Series	Model numbers	Series †	Model numbers
 06B Shown	1/4"	Poly / metal guard	40 micron	Twist	Relieving	None	06B	<b>06B12A13A2BC</b>	16B	<b>16B12A13A2BC</b>
	3/8"	Poly / metal guard	40 micron	Twist	Relieving	None		<b>06B22A13A2BC</b>		<b>16B22A13A2BC</b>
	1/2" *	Poly / metal guard	40 micron	Twist	Relieving	None		<b>06B32A13A2BCG</b>		<b>16B32A13A2BCG</b>
	1/2"	Poly / metal guard	40 micron	Twist	Relieving	None	07B	<b>07B32A13A2BD</b>	17B	<b>17B32A13A2BD</b>
	3/4"	Poly / metal guard	40 micron	Twist	Relieving	None		<b>07B42A13A2BD</b>		<b>17B42A13A2BD</b>

\* 06 / 16 Available with port blocks only

‡ For polycarbonate bowl, see caution in Engineering Section A

† 16H / 16B and 17H / 17B are Micro Mist version lubricators

### ⚠ 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.



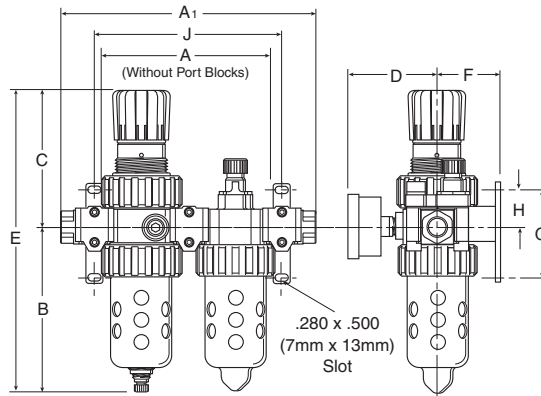
For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## Ordering information:

Series	Port Size	Filter Bowl Options	Filter Element	Pressure Range	Relief	Lubricator Bowl Options	Lubricator Body Options	Engineering Level	Modular Options
16B	1/4 inch (06/16)	Poly bowl, metal bowl guard, twist drain	40 Micron A	Without gauge	A Relieving	2 Poly bowl, metal bowl guard, no drain	B With fill plug	C 06B, 16B, 06H, 16H current	Blank No port blocks
1	3/8 inch	Poly bowl, metal bowl guard, auto float drain	5 Micron B	With gauge	L Non-relieving	6 Poly bowl, bowl guard, pressure fill	F With body pressure fill	D 07B, 17B, 07H, 17H current	A with wall mounting bracket & port block
2	1/2 inch (06/16 with port blocks)	Metal bowl, twist drain		11 60 psig		K Poly bowl, metal bowl guard, auto fill			B with mounting bracket, lockout & port block
A	3/4 inch (07/17)	Metal bowl, sight gauge, auto float drain		13 125 psig		N Poly bowl, metal bowl guard, twist drain			C* with mounting bracket & lockout
13		Metal bowl, auto float drain		15* 250 psig		4 Metal bowl, sight gauge, twist drain			G with port blocks
A		Metal bowl, sight gauge, auto float drain		16 60 psig		8 Metal bowl, sight gauge, pressure fill			J with lockout (no port blocks)
2				18 125 psig		M Metal bowl, sight gauge, auto fill			K with lockout & port blocks
B				21* 250 psig					W with mounting bracket
C									

\* 06/16 Series 1/2" units not available with option C, use option B.

\* Only available on metal bowl.



06H, 16H Series

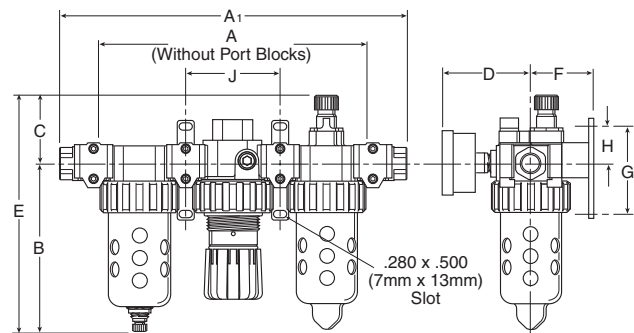
A	A1	B	C	D	E	F	G	H	J
6.10	9.04	5.69	4.69	3.18	10.38	2.00	3.58	1.40	6.65
(155)	(230)	(145)	(119)	(81)	(264)	(51)	(91)	(36)	(169)

07H, 17H Series

A	A1	B	C	D	E	F	G	H	J
7.00	10.28	6.97	4.79	3.44	11.76	2.09	3.58	1.40	7.51
(178)	(261)	(177)	(122)	(87)	(299)	(53)	(91)	(36)	(191)

Inches (mm)

• All dimensions nominal.



06B, 16B Series

A	A1	B	C	D	E	F	G	H	J
9.46	12.39	5.69	2.24	3.18	7.93	2.00	3.58	1.40	3.33
(240)	(315)	(145)	(57)	(81)	(202)	(51)	(91)	(36)	(85)

07B, 17B Series

A	A1	B	C	D	E	F	G	H	J
10.75	14.03	6.97	2.41	3.44	9.38	2.18	3.58	1.40	3.76
(273)	(356)	(177)	(61)	(87)	(238)	(55)	(91)	(36)	(95)

Inches (mm)

• All dimensions nominal.

For inventory, lead time, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## Service Kits

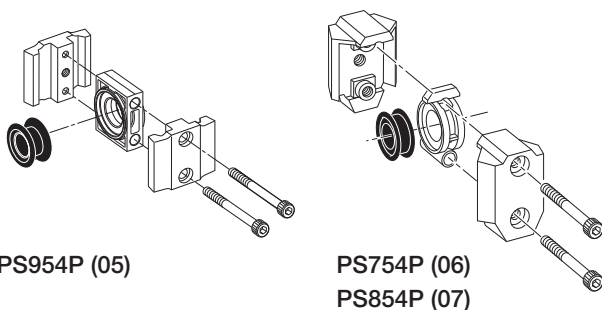
Body connector, (05 series)	<b>PS954P</b>
Body connector, (06 series)	<b>PS754P</b>
Body connector, (07 series)	<b>PS854P</b>
Wall mounting kits (05 series)	<b>PS955P</b>
Wall mounting kits (06 & 07 series)	<b>PS755P</b>
Lockout valves, (06 series)	<b>PS756P</b>
Lockout valves, (07 series)	<b>PS856P</b>
Modular manifold block 3/8" port, (06 series)	<b>PS757P</b>
Modular manifold block 1/2" port, (07 series)	<b>PS857P</b>

## 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.

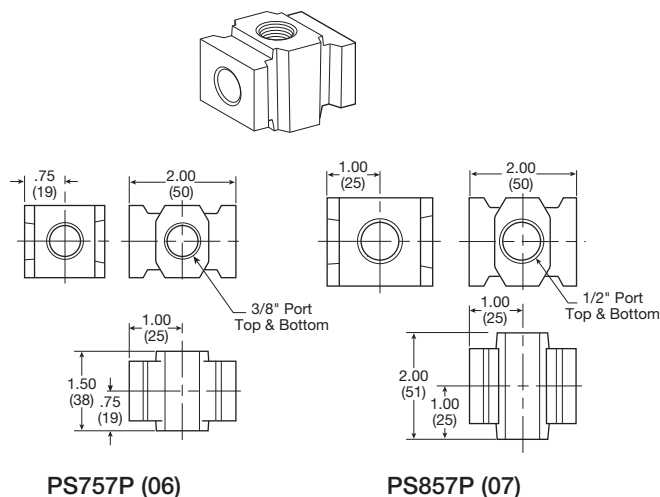
Each kit includes one set.



## 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.

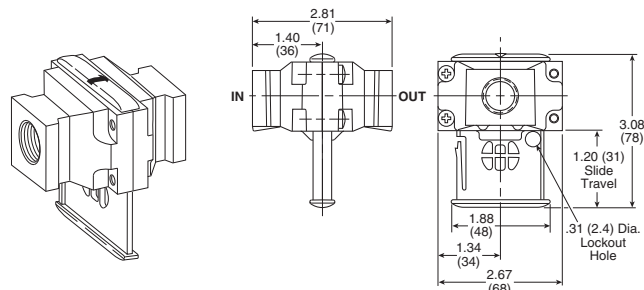
**NOTE:** Body connectors are not supplied with manifold blocks.



## 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.

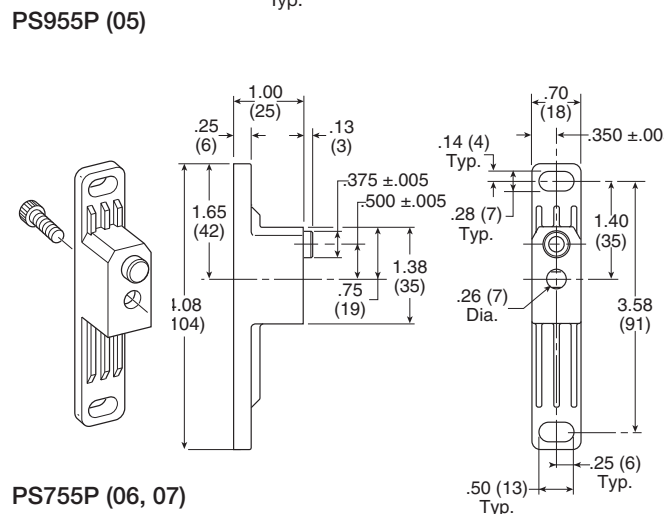
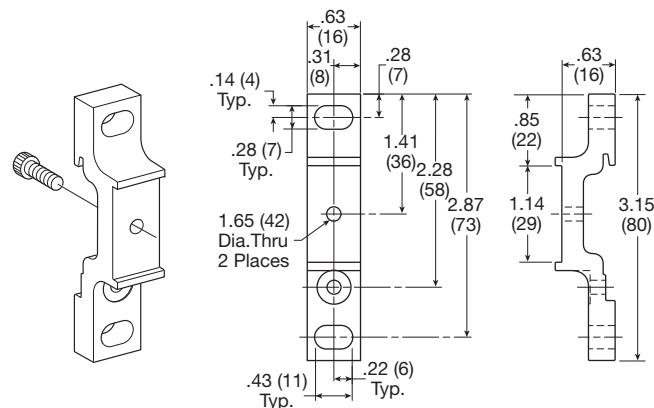


## Wall Mounting Kits

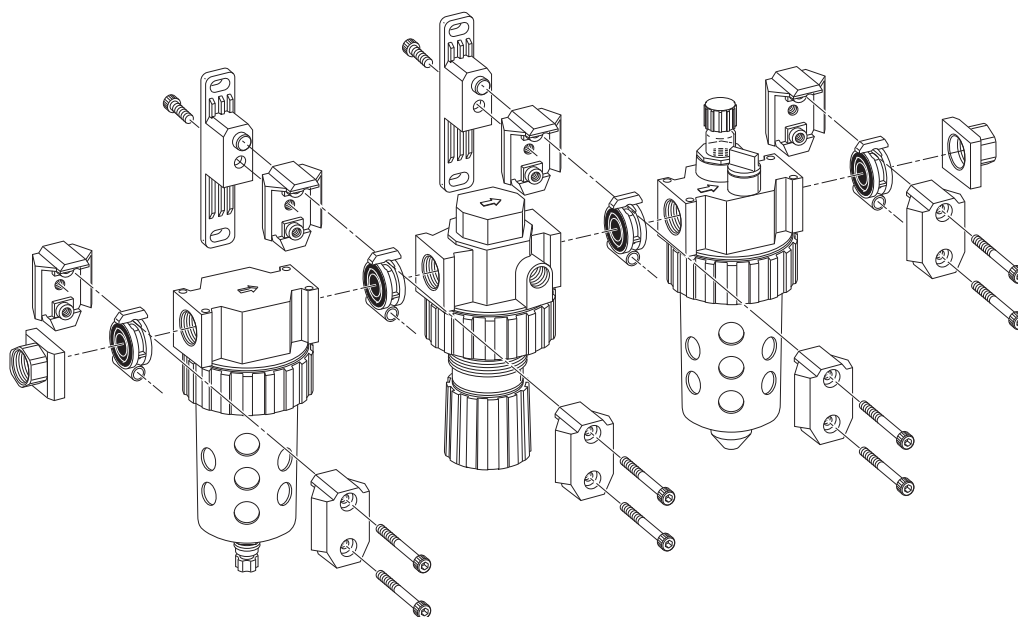
Wall mounting kits are available for mounting your modular assemblies and can be assembled and used with any standard body connector set.

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

Kit includes 1 assembly.



## Modular Accessories – 06 Compact &amp; 07 Standard Series



## Port Block Connector Kits

## 06 Series

1/4" Port block kits, NPT	<b>PS750P</b>
1/4" Port block kits, BSPP	<b>PS765P</b> †
1/4" Port block kits, BSPT	<b>PS761P</b>
3/8" Port block kits, NPT	<b>PS751P</b>
3/8" Port block kits, BSPP	<b>PS766P</b> †
3/8" Port block kits, BSPT	<b>PS762P</b>
1/2" Port block kits, NPT	<b>PS752P</b> *
1/2" Port block kits, BSPP	<b>PS767P</b> * †
1/2" Port block kits, BSPT	<b>PS799P</b> *

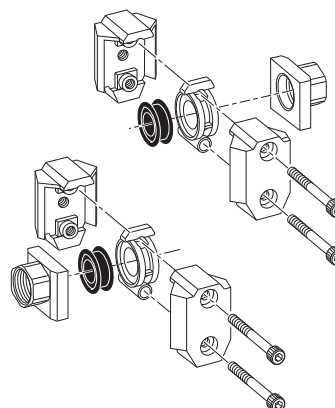
## 07 Series

1/4" Port block kits, NPT	<b>PS850P</b>
1/4" Port block kits, BSPP	<b>PS865P</b>
1/4" Port block kits, BSPT	<b>PS861P</b>
3/8" Port block kits, NPT	<b>PS851P</b>
3/8" Port block kits, BSPP	<b>PS866P</b>
3/8" Port block kits, BSPT	<b>PS862P</b>
1/2" Port block kits, NPT	<b>PS852P</b>
1/2" Port block kits, BSPP	<b>PS867P</b> ‡
1/2" Port block kits, BSPT	<b>PS863P</b>
3/4" Port block kits, NPT	<b>PS853P</b>
3/4" Port block kits, BSPP	<b>PS860P</b>
3/4" Port block kits, BSPT	<b>PS864P</b>

\* Use 1/4 or 3/8 ported bodies.

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

‡ 1/2 inch meets ISO 1179-1 Standard.

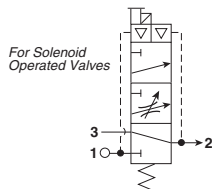


Port block connectors allow you to make threaded port connections to modular units and are available in various port sizes to match your system requirements.

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

## 06S &amp; 07S Soft Start / Quick Dump Valve

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



06S



07S

Port size	Description	Part number
3/8"	24 VDC, 30 to 145 psi	<b>06S249B</b>
3/8"	120/60 Hz, 30 to 145 psi	<b>06S253B</b>
1/2"	24 VDC, 30 to 145 psi	<b>07S349B</b>
1/2"	120/60 Hz, 30 to 145 psi	<b>07S353B</b>

## Operating information

Exhaust ports:	06S	1/2 inch
	07S	3/4 inch
Inlet and outlet ports:	06S	3/8 inch
	07S	1/2 inch
Maximum pressure:		
Standard coil		145 psig (10.0 bar)
High pressure coil		200 psig (13.8)
Operating pressure (min):		30 psig (20.1 bar)
Operating temperature:		40°F to 120°F (4°C to 49°C)
Weight:	06S	2.25 lb (1.02 kg)
	07S	3.75 lb (1.70 kg)

## Operation

When the valve is installed into the pneumatic system and pilot operator receives no signal, the air is blocked at Port 1. When a pilot signal is received at pilot operator, the valve shifts closing the connection between Ports 2 and 3. At the same time air flow begins between Ports 1 and 2 at a slow rate controlled by the needle valve located on the top of the valve. When the down stream pressure reaches approximately 60% of the supply pressure, the main valve spool opens allowing full flow through the valve into the system. If pilot signal or system pressure is lost, the valve returns to its initial state venting the down stream pressure through Port 3.

Pressure supply piping must be the same size as the inlet port or larger to insure that the pilot valve receives sufficient pressure supply during high flow conditions.

The valves pilot signal is through a solenoid pilot mounted on the head. The valve should be mounted downstream of the FRL and with the soft start adjustment needle easily accessible.

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

**CAUTION:** Do not restrict the inlet of valves.

## Ordering information:

<b>06S</b>	<b>2</b>	<b>53</b>	<b>B</b>	
<b>Series</b> Soft start / quick dump valve 06S Soft start / quick dump valve 07S	<b>Port Size</b> 3/8 inch (06S) 2 1/2 inch (07S) 3	<b>Operator / Voltage</b> 24VDC, 30 to 145 psi 49* 120/60 Hz, 30 to 145 psi 53* 24VDC, 145 to 200 psi 69† 120/60 Hz, 145 to 200 psi 73† M12 Male connector, 4 pole, 24VDC MD	<b>Option</b> Blank NPT 1* BSPP G <small>* 3/8 &amp; 1/2 inch meet ISO 1179-1 standard.</small>	<b>Engineering Level</b> B Current

\* For voltage options 49 and 53, use 22mm connectors  
† For voltage options 69 and 73, use 30mm connectors

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## Soft Start / Quick Dump Valve

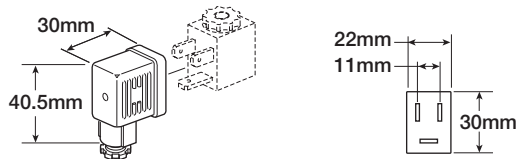
### Material Specifications

Body	Aluminum
Bottom Plug	Brass

### Repair and Service Kits

06S repair kit	<b>PHRKSC75</b>
07S repair kit	<b>PHRKSC105</b>
06 modular body connectors	<b>PS754P</b>
07 modular body connectors	<b>PS854P</b>
1/2" exhaust silencer	<b>ES50MB</b>
3/4" exhaust silencer	<b>ES75MB</b>

### 22mm Rectangular 3-Pin



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

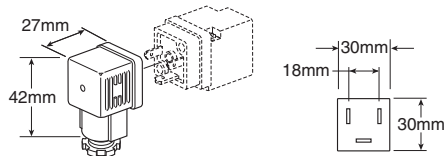
\* LED with surge suppression.

**Note:** Max ø6.5mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

Engineering Data:

Conductors: 2 poles plus ground; Cable range (connector only): 6 to 8mm (0.24 to 0.31 Inch); Contact Spacing: 11mm

### 30mm Square 3-Pin



Description	Connector	Connector with 6' (2m) cord
Unlighted	<b>PS2028BP</b>	<b>PS2028JBP</b>
Light – 24VDC	<b>PS203279BP</b>	<b>PS2032J79BP*</b>
Light – 120V/60Hz	<b>PS203283BP</b>	<b>PS2032J83BP*</b>

\* LED with surge suppression.

**Note:** Max ø6.5mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

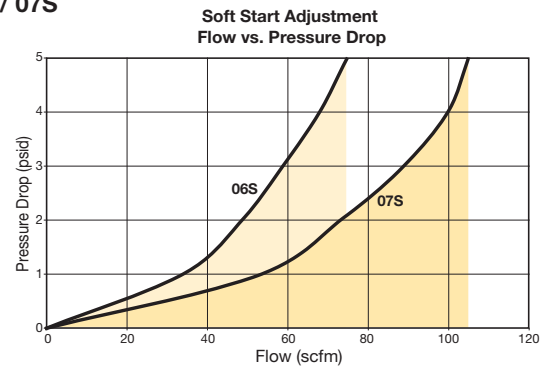
Engineering Data:

Conductors: 2 poles plus ground; Cable range (connector only): 8 to 10mm (0.31 to 0.39 Inch); Contact spacing: 18mm

## Air Preparation Products Prep-Air® II Series

### Performance Characteristics

#### 06S / 07S



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

Inlet pressure psig	Downstream pressure psig	
	06S	07S
75	55	52
100	67	68
125	80	82

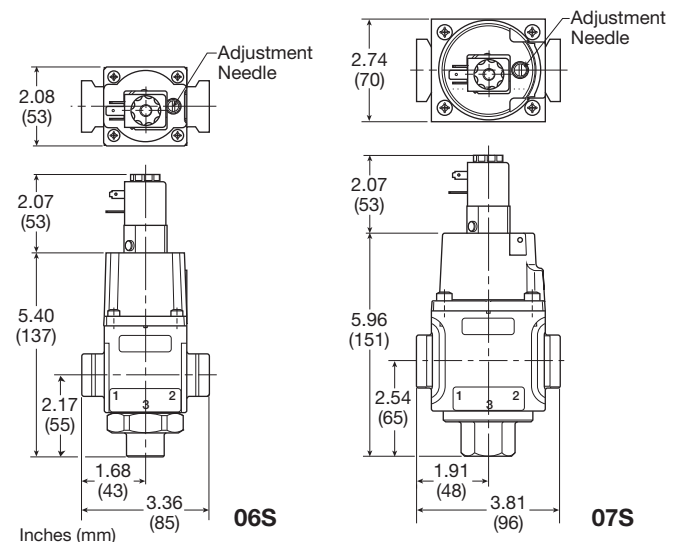
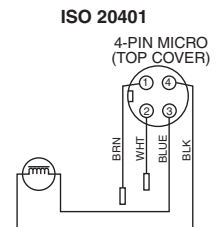
**Table 2:** Product forward flow Cv and exhaust flow Cv.

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

### Connections

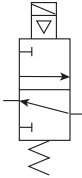
#### Central M12 Male Connector, 4 Pole

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



# 06T & 07T Solenoid Quick Dump Valve

- Shuts off incoming pressure while rapidly exhausting downstream pressure
- Large exhaust flow capacities up to 5.0 Cv
- Solenoid operation
- Non-locking manual override
- Inline or Modular Mounting



06T



07T

Port size	Description	Part number
3/8"	24 VDC, 30 to 145 psi, NPT	<b>06T249A</b>
3/8"	120/60 Hz, 30 to 145 psi, NPT	<b>06T253A</b>
1/2"	24 VDC, 30 to 145 psi, NPT	<b>07T349A</b>
1/2"	120/60 Hz, 30 to 145 psi, NPT	<b>07T353A</b>

## Operating information

Exhaust ports:	06T	1/2 inch
	07T	3/4 inch
Inlet and outlet ports:	06T	3/8 inch
	07T	1/2 inch
Maximum pressure:		
Standard coil		145 psig (10.0 bar)
High pressure coil		200 psig (13.8)
Operating pressure (min):		30 psig (20.1 bar)
Operating temperature:		40°F to 120°F (4°C to 49°C)
Weight:	06T	2.25 lb (1.02 kg)
	07T	3.75 lb (1.70 kg)

## Operation

The solenoid quick dump valves are high flow, normally closed, 3-Port, 2-Position directional control valves.

Upon energizing the solenoid, inlet air is applied to the top of the piston. The piston pushes against the spring and opens the main valve providing full flow air to the downstream. When the solenoid is de-energized, the main valve closes allowing downstream air to exhaust rapidly through the bottom plug. The bottom plug is tapped so that exhaust may be piped away or fitted with a muffler.

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

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

## Ordering information:

**06T**  
Series  
Solenoid quick dump valve 06T  
Solenoid quick dump valve 07T

**2**  
Port Size  
3/8 inch (06T) 2  
1/2 inch (07T) 3

**53**  
Operator / Voltage  
24VDC, 30 to 145 psi 49\*  
120/60 Hz, 30 to 145 psi 53\*  
24VDC, 145 to 200 psi 69†  
120/60 Hz, 145 to 200 psi 73†  
M12 Male connector, 4 pole, 24VDC MD

**A**  
Engineering Level  
A Current

**Option**  
Blank NPT  
1\* BSPP G  
\* 3/8 & 1/2 inch meet ISO 1179-1 standard.

\* For voltage options 49 and 53, use 22mm connectors  
† For voltage options 69 and 73, use 30mm connectors

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

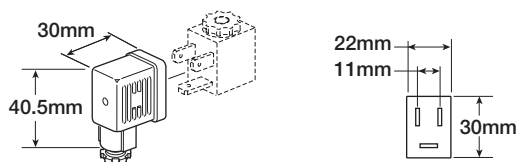
## Material Specifications

Body	Aluminum
Bottom plug	Brass

## Repair and Service Kits

06T repair kit	PHRKS75
07T repair kit	PHRKS105
06 modular body connectors	PS754P
07 modular body connectors	PS854P
1/2" exhaust silencer	ES50MB
3/4" exhaust silencer	ES75MB

## 22mm Rectangular 3-Pin



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

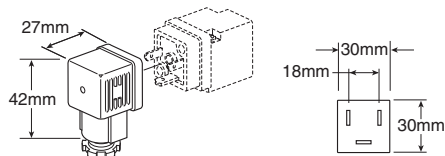
\* LED with surge suppression.

**Note:** Max ø6.5 mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

Engineering Data:

Conductors: 2 Poles Plus Ground; Cable Range (Connector Only): 6 to 8 mm (0.24 to 0.31 Inch); Contact Spacing: 11mm

## 30mm Square 3-Pin



Description	Connector	Connector with 6' (2m) Cord
Unlighted	PS2028BP	PS2028JBP
Light – 24VDC	PS203279BP	PS2032J79BP*
Light – 120V/60Hz	PS203283BP	PS2032J83BP*

\* LED with surge suppression.

**Note:** Max ø6.5 mm cable size required for connector w/o 6' (2m) cord. IP65 rated when properly installed.

Engineering Data:

Conductors: 2 Poles Plus Ground; Cable Range (Connector Only): 8 to 10mm (0.31 to 0.39 Inch); Contact Spacing: 18 mm

## Performance Characteristics

### 06T / 07T

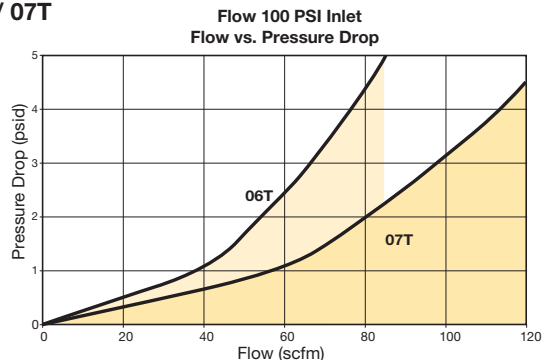


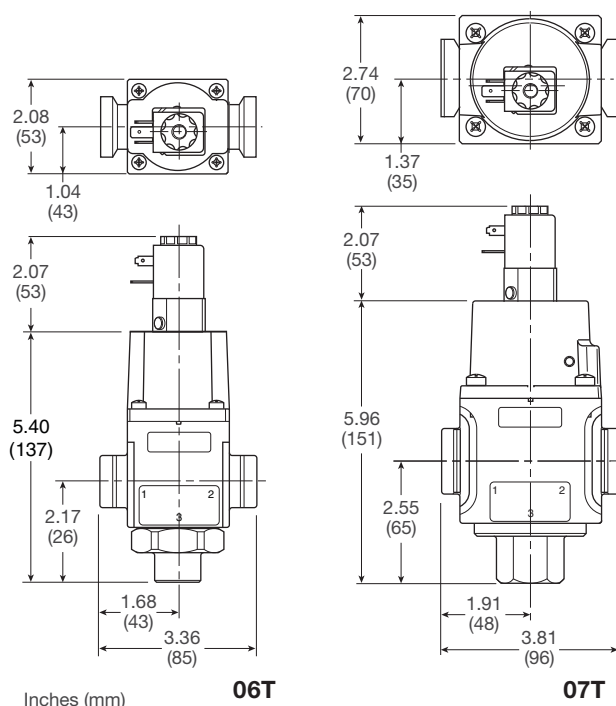
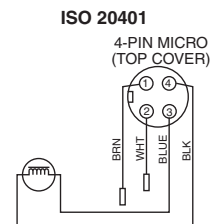
Table 2: Product forward flow Cv (1 to 2).

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

## Connections

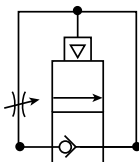
### Central M12 Male Connector, 4 Pole

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



## 06P &amp; 07P Auto Pilot Soft Start Valve

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



06P



07P

Port size	Description	Part number
3/8"	NPT	<b>06P2A</b>
1/2"	NPT	<b>07P3A</b>

## Operating information

Maximum pressure:	300 psig (20.7)
Operating pressure (Min):	30 psig (20.1 bar)
Operating temperature:	40°F to 120°F (4°C to 49°C)
Weight:	06P 2.75 lb (1.25 kg) 07P 4.50 lb (2.04 kg)

## Operation

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

The Auto pilot soft start valve is not intended to be used as a shut off valve and should always be placed after a shut off valve.

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

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

## Ordering information:

<div> <div>06P</div> <div>2</div> <div>A</div> <div></div> </div>			
<b>Series</b> Auto pilot soft start valve 06P Auto pilot soft start valve 07P		<b>Option</b> Blank NPT 1* BSPP G <small>* 3/8 &amp; 1/2 inch meet ISO 1179-1 standard.</small>	
<b>Port Size</b> 3/8 inch (06P) 2 1/2 inch (07P) 3		<b>Engineering Level</b> A Current	

Most popular.



For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

**Material Specifications**

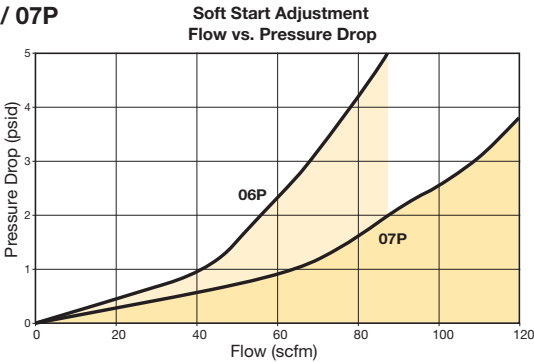
Body	Aluminum
Bottom plug, 06P	Brass
Bottom plug, 07P	Zinc

**Repair and Service Kits**

06P repair kit	<b>PHRKSS75</b>
07P repair kit	<b>PHRKSS105</b>
06 modular body connectors	<b>PS754P</b>
07 modular body connectors	<b>PS854P</b>

**Performance Characteristics**

**06P / 07P**

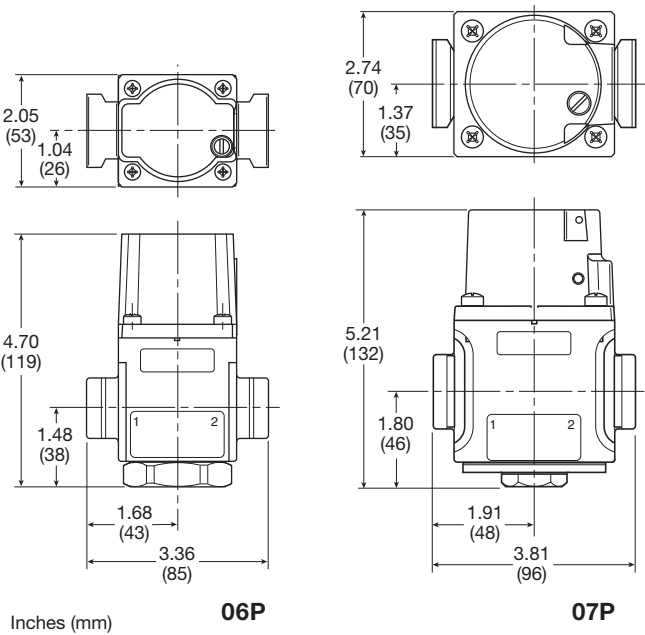


**Table 1:** Shows the relationship between the inlet pressure and downstream pressure at which the main valve opens.

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

**Table 2:** Product forward flow Cv (1 to 2).

Series	Flow Cv
06P	3.8
07P	5.5



Inches (mm)

**06P**

**07P**

Prep-Air® II  
Products

**F**

Filters

Coalescers

Regulators

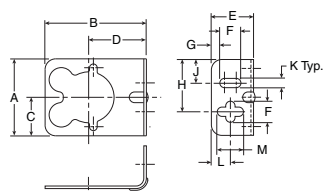
Filter /  
Regulators

Lubricators

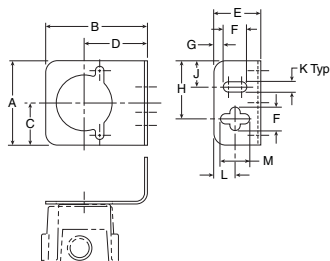
Combinations

Accessories

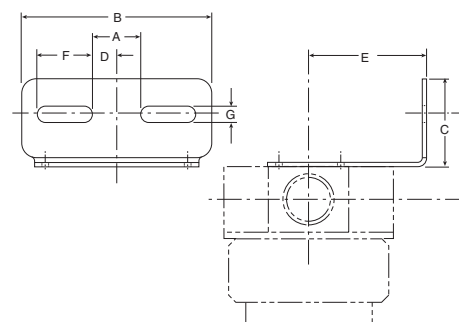
## Mounting Bracket Kits



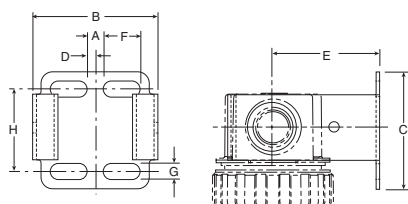
**PS417BP**  
(Includes Panel Mount Nut)



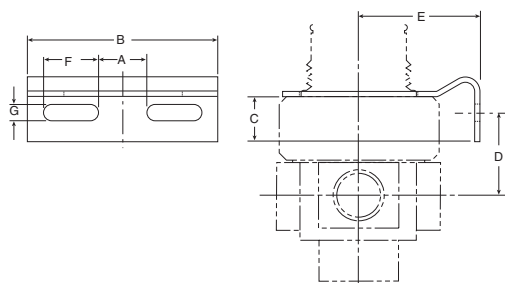
**PS419**  
(Includes Panel Mount Nut)



**PS743P, PS843P**

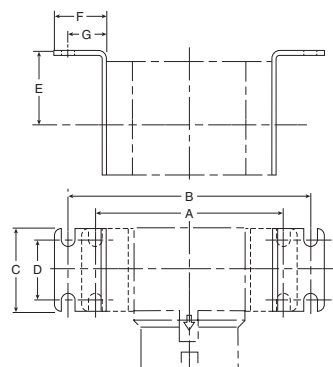


**PS943P**



**PS707P & PS807P**  
(Includes Panel Mount Nut)

**PS963P**  
(Includes Aluminum Panel Mount Nut)



**P3NKA00MW**

## Dimensions

A	B	C	D	E	F	G	H	J	K	L	M	Kit
1.80 (46)	2.37 (60)	0.90 (23)	1.35 (34)	1.00 (25)	0.50 (13)	0.20 (5)	1.24 (31)	0.56 (14)	0.22 (6)	0.45 (11)	0.62 (16)	<b>PS417BP</b> (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)	<b>PS419</b> (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)	—	—	—	—	<b>PS743P</b> (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)	—	—	—	—	<b>PS843P</b> (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)	—	—	—	—	<b>PS943P</b> (05F, 15F, 15L)
0.84 (21)	2.59 (66)	0.49 (12)	1.02 (26)	1.85 (47)	0.61 (15)	0.28 (7)	—	—	—	—	—	<b>PS963P</b> (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)	—	—	—	—	—	<b>PS707P</b> (06R, 06E, 11R)
1.00 (25)	3.94 (100)	0.65 (17)	1.68 (43)	2.19 (56)	1.25 (32)	0.28 (7)	—	—	—	—	—	<b>PS807P</b> (07R, 07E, 12R)
6.22 (158)	8.19 (208)	2.75 (70)	1.97 (50)	2.36 (60)	1.77 (45)	1.30 (33)	—	—	—	—	—	<b>P3NKA00MW</b> (P3NF, P3NR, P3NE, P3NL)

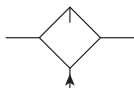
inches (mm)



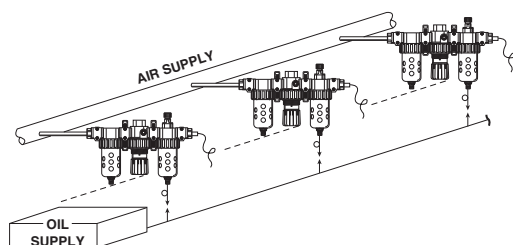
For inventory, lead times, and kit lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

## Remote Auto-Fill Device

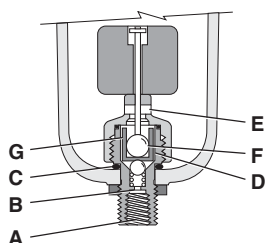
- Wide operating range (oil supply to inlet may be 30 to 270 psig; air operating pressure depends on bowl used)
- Rugged polyurethane float design
- Complete field conversion kit (internal components only)
- Adaptable on polycarbonate and metal bowls already in service (must supply lubricator housing in order to retrofit)
- Oil supply strainer standard
- Fits 06L / 16L and 07L / 17L series
- 3/8", 1/2", 3/4" ports



Description	Weight lbs (kg)	Part number
Auto-fill device kit	1.9 (0.9)	PS505CP



## Operation



Oil enters the unit at the pipe thread fitting (A) with a supply pressure that is a minimum of 20 psig above the lubricator air pressure. With the float lowered, oil flows through metering orifice (B) and lifts the check ball (C). Oil continues to flow past the shuttle chamber annulus (D) and out the cross drilled hole (E). As the

oil level rises, it cause the float to rise to its maximum level in the bowl. During this period the shut-off ball (F) remains in chamber (G), out of the flow stream. Near the end of the filling period, shut-off ball (F) will enter the flow stream and snap shut against the seat in chamber (G).

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

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

Most popular.



## Operating information

Supply pressure (max):	
Plastic bowl	150 psig (10.3 bar)
Metal bowl / sight gauge	250 psig (17.2 bar)
Operating temperature:	
Plastic bowl	32°F to 125°F (0°C to 52°C)
Metal bowl / sight gauge	32°F to 175°F (0°C to 80°C)
Flow capacity†:	
Minimum flow	1 scfm (0.5 dm³/s, ANR) at 100 psig
Bowl capacity:	4.9 oz.
† Oil inlet pressure must be at least 20 psig above system air pressure and may be up to 300 psig.	

## Material Specifications

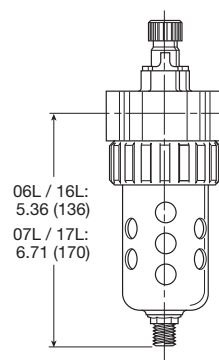
Body, cap & stem	Aluminum
Float	Polyurethane
Mounting nut	Delrin
Seals	Nitrile
Spring	Stainless

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

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

## Suggested Lubricant .....F442 Oil

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



Inches (mm)

# Safety Guide For Selecting And Using Pneumatic Division Products And Related Accessories

## WARNING:

**FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF PNEUMATIC DIVISION PRODUCTS, ASSEMBLIES OR RELATED ITEMS ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:**

- Unintended or mistimed cycling or motion of machine members or failure to cycle
- Work pieces or component parts being thrown off at high speeds.
- Failure of a device to function properly for example, failure to clamp or unclamp an associated item or device.
- Explosion
- Suddenly moving or falling objects.
- Release of toxic or otherwise injurious liquids or gasses.

Before selecting or using any of these Products, it is important that you read and follow the instructions below.

## 1. GENERAL INSTRUCTIONS

- 1.1. Scope:** This safety guide is designed to cover general guidelines on the installation, use, and maintenance of Pneumatic Division Valves, FRLs (Filters, Pressure Regulators, and Lubricators), Vacuum products and related accessory components.
- 1.2. Fail-Safe:** Valves, FRLs, Vacuum products and their related components can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of associated valves, FRLs or Vacuum products will not endanger persons 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 [www.iso.org](http://www.iso.org) for ordering information.
- 1.4. Distribution:** Provide a copy of this safety guide to each person that is responsible for selection, installation, or use of Valves, FRLs or Vacuum products. Do not select, or use Parker valves, FRLs or vacuum products without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.
- 1.5. User Responsibility:** Due to the wide variety of operating conditions and applications for valves, FRLs, and vacuum products Parker and its distributors do not represent or warrant that any particular valve, FRL or vacuum product is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:
- Making the final selection of the appropriate valve, FRL, Vacuum component, or accessory.
  - Assuring that all user's performance, endurance, maintenance, safety, and warning requirements are met and that the application presents no health or safety hazards.
  - Complying with all existing warning labels and / or providing all appropriate health and safety warnings on the equipment on which the valves, FRLs or Vacuum products are used; and,
  - Assuring compliance with all applicable government and industry standards.
- 1.6. Safety Devices:** Safety devices should not be removed, or defeated.
- 1.7. Warning Labels:** Warning labels should not be removed, painted over or otherwise obscured.
- 1.8. Additional Questions:** Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, or call 1-800-CPARKER, or go to [www.parker.com](http://www.parker.com), for telephone numbers of the appropriate technical service department.

## 2. PRODUCT SELECTION INSTRUCTIONS

- 2.1. Flow Rate:** The flow rate requirements of a system are frequently the primary consideration when designing any pneumatic system. System components need to be able to provide adequate flow and pressure for the desired application.
- 2.2. Pressure Rating:** Never exceed the rated pressure of a product. Consult product labeling, Pneumatic Division catalogs or the instruction sheets supplied for maximum pressure ratings.
- 2.3. Temperature Rating:** Never exceed the temperature rating of a product. Excessive heat can shorten the life expectancy of a product and result in complete product failure.
- 2.4. Environment:** Many environmental conditions can affect the integrity and suitability of a product for a given application. Pneumatic Division products are designed for use in general purpose industrial applications. If these products are to be used in unusual circumstances such as direct sunlight and/or corrosive or caustic environments, such use can shorten the useful life and lead to premature failure of a product.
- 2.5. Lubrication and Compressor Carryover:** Some modern synthetic oils can and will attack nitrile seals. If there is any possibility of synthetic oils or greases migrating into the pneumatic components check for compatibility with the seal materials used. Consult the factory or product literature for materials of construction.
- 2.6. Polycarbonate Bowls and Sight Glasses:** To avoid potential polycarbonate bowl failures:
- Do not locate polycarbonate bowls or sight glasses in areas where they could be subject to direct sunlight, impact blow, or temperatures outside of the rated range.
  - Do not expose or clean polycarbonate bowls with detergents, chlorinated hydro-carbons, ketones, 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 [www.parker.com](http://www.parker.com).

**3.3. Air Supply:** The air supply or control medium supplied to Valves, FRLs and Vacuum components must be moisture-free if ambient temperature can drop below freezing

### 4. VALVE AND FRL MAINTENANCE AND REPLACEMENT INSTRUCTIONS

**4.1. Maintenance:** Even with proper selection and installation, valve, FRL and vacuum products service life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a component failure, and experience with any known failures in the application or in similar applications should determine the frequency of inspections and the servicing or replacement of Pneumatic Division products so that products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at minimum, must include instructions 4.2 through 4.9.

**4.2. Installation and Service Instructions:** Before attempting to service or replace any worn or damaged parts consult the appropriate Service Bulletin for the valve or FRL in question for the appropriate practices to service the unit in question. These Service and Installation Instructions are provided with every Parker valve and FRL sold, or are available by calling 1-800-CPARKER, or by accessing the Parker web site at [www.parker.com](http://www.parker.com).

**4.3. Lockout / Tagout Procedures:** Be sure to follow all required lockout and tagout procedures when servicing equipment. For more information see: OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – (Lockout / Tagout)

**4.4. Visual Inspection:** Any of the following conditions requires immediate system shut down and replacement of worn or damaged components:

- Air leakage: Look and listen to see if there are any signs of visual damage to any of the components in the system. Leakage is an indication of worn or damaged components.
- Damaged or degraded components: Look to see if there are any visible signs of wear or component degradation.
- Kinked, crushed, or damaged hoses. Kinked hoses can result in restricted air flow and lead to unpredictable system behavior.
- Any observed improper system or component function: Immediately shut down the system and correct malfunction.
- Excessive dirt build-up: Dirt and clutter can mask potentially hazardous situations.

**Caution: Leak detection solutions should be rinsed off after use.**

**4.5. Routine Maintenance Issues:**

- Remove excessive dirt, grime and clutter from work areas.
- Make sure all required guards and shields are in place.

**4.6. Functional Test:** Before initiating automatic operation, operate the system manually to make sure all required functions operate properly and safely.

**4.7. Service or Replacement Intervals:** It is the user's responsibility to establish appropriate service intervals. Valves, FRLs and vacuum products contain components that age, harden, wear, and otherwise deteriorate over time. Environmental conditions can significantly accelerate this process. Valves, FRLs and vacuum components need to be serviced or replaced on routine intervals. Service intervals need to be established based on:

- Previous performance experiences.
- Government and / or industrial standards.
- When failures could result in unacceptable down time, equipment damage or personal injury risk.

**4.8. Servicing or Replacing of any Worn or Damaged Parts:** To avoid unpredictable system behavior that can cause death, personal injury and property damage:

- Follow all government, state and local safety and servicing practices prior to service including but not limited to all OSHA Lockout Tagout procedures (OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – Lockout / Tagout).
- Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
- Disconnect air supply and depressurize all air lines connected to system and Pneumatic Division products before installation, service, or conversion.
- Installation, servicing, and / or conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
- After installation, servicing, or conversions air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or if the product does not operate properly, do not put product or system into use.
- Warnings and specifications on the product should not be covered or painted over. If masking is not possible, contact your local representative for replacement labels.

**4.9. Putting Serviced System Back into Operation:** Follow the guidelines above and all relevant Installation and Maintenance Instructions supplied with the valve FRL or vacuum component to insure proper function of the system.



For inventory, lead time, and kit  
lookup, visit [www.pdnplu.com](http://www.pdnplu.com)

O21

**Parker Hannifin Corporation**  
Pneumatic Division  
Richland, Michigan  
[www.parker.com/pneumatics](http://www.parker.com/pneumatics)

**PARKER-HANNIFIN CORPORATION**  
**OFFER OF SALE**

**1. Definitions.** As used herein, the following terms have the meanings indicated.

Buyer:	means any customer receiving a Quote for Products from Seller.
Goods:	means any tangible part, system or component to be supplied by the Seller.
Products:	means the Goods, Services and/or Software as described in a Quote provided by the Seller.
Quote:	means the offer or proposal made by Seller to Buyer for the supply of Products.
Seller:	means Parker-Hannifin Corporation, including all divisions and businesses thereof.
Services:	means any services to be supplied by the Seller.
Software:	means any software related to the Products, whether embedded or separately downloaded.
Terms:	means the terms and conditions of this Offer of Sale or any newer version of the same as published by Seller electronically at <a href="http://www.parker.com/saleterms">www.parker.com/saleterms</a> .

**2. Terms.** All sales of Products by Seller are contingent upon, and will be governed by, these Terms and, these Terms are incorporated into any Quote provided by Seller to any 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 of purchase. No modification to these Terms will be binding on Seller unless agreed to in writing and signed by an authorized representative of Seller.

**3. Price; Payment.** The Products set forth in Seller's Quote are offered for sale at the prices indicated in Seller's Quote. Unless otherwise specifically stated in Seller's 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 at any time to adjust for any raw material price fluctuations. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2010). All sales are contingent upon credit approval and payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). 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.

**4. Shipment; Delivery; Title and Risk of Loss.** All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise agreed, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyer's request beyond the respective indicated shipping date will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

**5. Warranty.** The warranty related to 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 completion of the Services by Seller; 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:

**DISCLAIMER OF WARRANTY: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, NON-INFRINGEMENT, 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. BUYER AGREES AND ACKNOWLEDGES THAT 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. Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. 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. LIMITATION OF LIABILITY.** IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCT, 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 ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, NON-COMPLETION OF SERVICES, USE, LOSS OF USE OF, OR INABILITY TO USE THE PRODUCTS OR ANY PART THEREOF, LOSS OF DATA, IDENTITY, PRIVACY, OR CONFIDENTIALITY, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS.

**8. Loss to Buyer's Property.** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which are or become Buyer's property, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

**9. Special Tooling.** Special Tooling includes but is not limited to tooling, jigs, fixtures and associated manufacturing equipment acquired or necessary to manufacture Products. A tooling charge may be imposed for any Special Tooling. 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 Special Tooling belonging to Seller that is utilized in the manufacture of the Products, even if such Special Tooling has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property in its sole discretion at any time.

**10. Security Interest.** To secure payment of all sums due, 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 its security interest.

**11. User Responsibility.** The 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. The Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and other technical information provided with the Product. If Seller provides Product options based upon data or specifications provided by the Buyer, the 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 the Buyer is not the end-user, Buyer will ensure such end-user complies with this paragraph.

**12. Use of Products; Indemnity by Buyer.** Buyer shall comply with all instructions, guides and specifications provided by Seller with the Products. **Unauthorized Uses.** If Buyer uses or resells the Products for any uses prohibited in 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. 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, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, application, design, specification or other misuse of Products provided by Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, tooling, equipment, plans, drawings, designs or specifications or other information or things furnished by Buyer; (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 or tampering with the Products for any reason; or (e) Buyer's failure to comply with these Terms. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

**13. Cancellations and Changes.** Buyer may not cancel or modify any order for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller, at any time, may change Product features, specifications, designs and availability.

**14. Limitation on Assignment.** Buyer may not assign its rights or obligations without the prior written consent of Seller.

**15. Force Majeure.** Seller does not assume the risk and is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control ("Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

**16. Waiver and Severability.** Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of these Terms by legislation or other rule of law shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

**17. Termination.** Seller may 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) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or one filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.

**18. Ownership of Software.** Seller retains ownership of all Software supplied to Buyer hereunder. In no event shall Buyer obtain any greater right in and to the Software than a right in the nature of a license limited to the use thereof and subject to compliance with any other terms provided with the Software.

**19. Indemnity for Infringement of Intellectual Property Rights.** Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights ("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 sold hereunder infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by the Seller to the 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 sold hereunder 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 so as 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; or (ii) directed to any Products provided hereunder 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 provided hereunder. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for such claims of infringement of Intellectual Property Rights.

**20. Governing Law.** These Terms 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.

**21. Entire Agreement.** These Terms, along with the terms set forth in the main body of any Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. In the event of a conflict between any term set forth in the main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.

**22. 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 acknowledges 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 Product from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws.