



Prep-Air® II

Miniature FRL Series

Catalog 0714P/USA



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| | |
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| Offer of Sale | IBC |
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**CAUTION:**

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

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

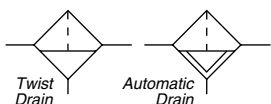
TO CLEAN POLYCARBONATE BOWLS USE MILD SOAP AND WATER ONLY! DO NOT use cleansing agents such as acetone, benzene, carbon tetrachloride, gasoline, toluene, etc., which are damaging to this plastic.

Metal bowl guards are recommended for all applications.

**CAUTION:**

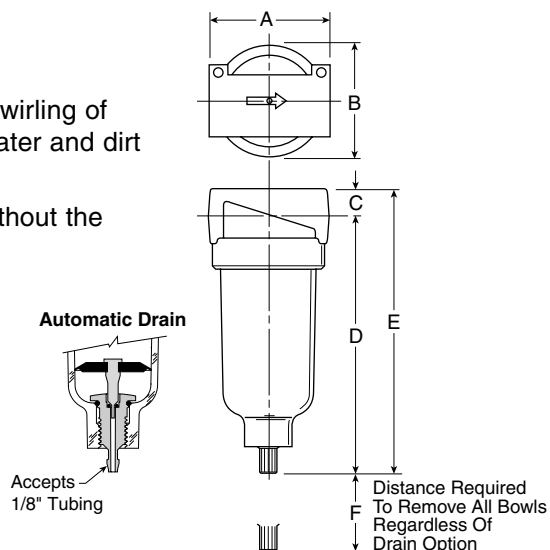
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

14F Filters – Miniature



Features

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



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

| 14F Filter Dimensions | | |
|-----------------------|----------------|---------------|
| A | B | C |
| 1.69 (43) | 1.56 (39.6) | 0.39 (10) |
| D | D † | E |
| 3.82 (97) | 3.67 (93) | 4.21 (107) |
| E † | F | |
| 4.06 (103) | 1.60 (41) | |

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

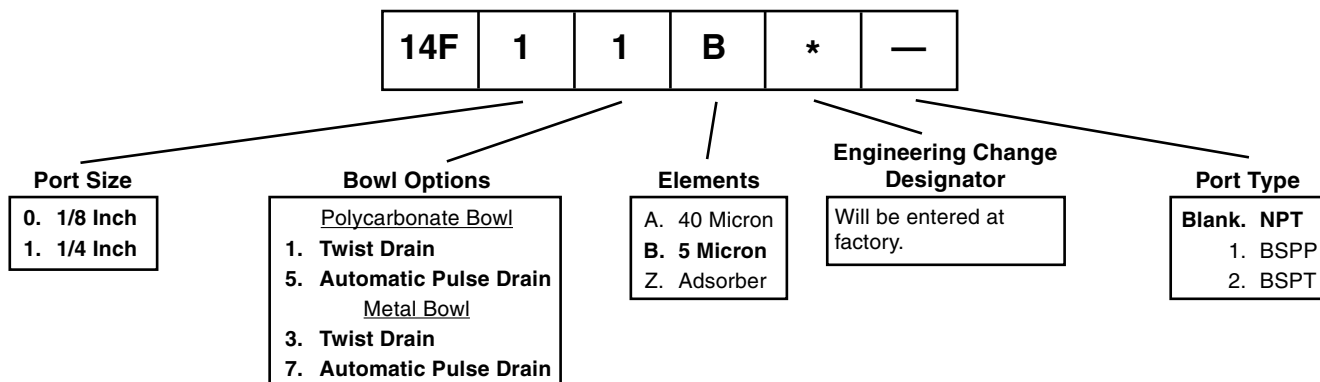
† For polycarbonate bowl see [Caution on page 1](#).

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

Inches (mm)

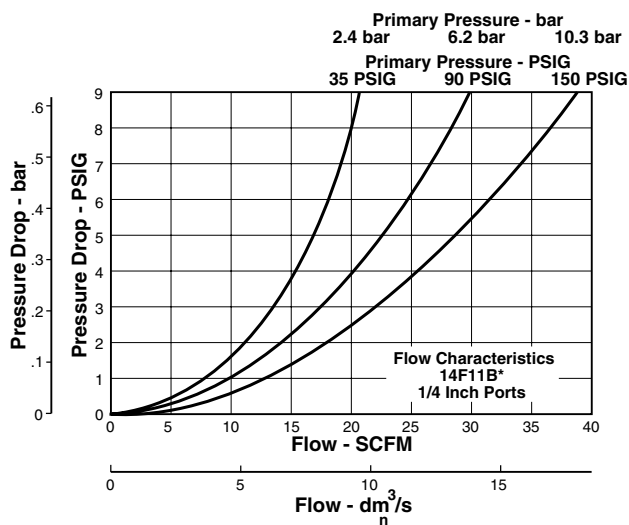
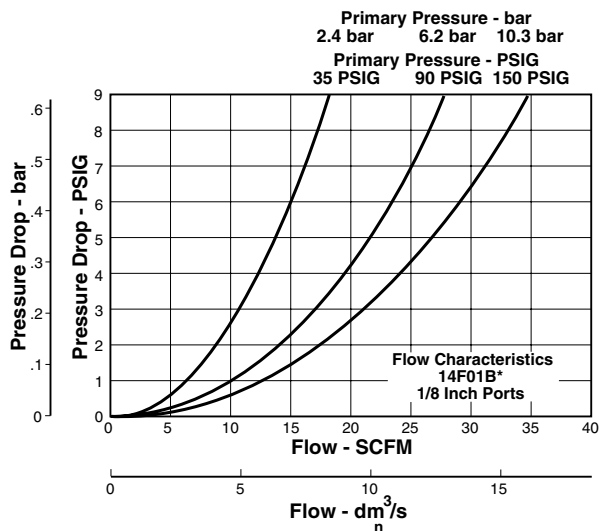
† With Automatic Pulse Drain

Ordering Information



NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information



14F Filter Kits & Accessories

Bowl Kits –

| | |
|--|---------|
| Poly Bowl – Automatic Pulse Drain | PS408P |
| Twist Drain | PS404P |
| Metal Bowl – Automatic Pulse Drain | PS451P |
| Twist Drain | PS447BP |

Filter Element Kits –

| | |
|------------------------------|--------|
| 40 Micron | PS401P |
| 5 Micron | PS403P |
| 5 Micron Cartridge Kit | PS407P |
| Adsorber | PS452P |

| | |
|----------------------------|---------|
| Mounting Bracket Kit | PS417BP |
|----------------------------|---------|

Specifications

Automatic Pulse Drain Tube Barb 1/8 Inch

Bowl Capacity 1 Ounce

Port Threads 1/8, 1/4 Inch

Pressure & Temperature Ratings –

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

Weight 0.41 lb. (0.18 kg)

Materials of Construction

Body Zinc

Bowls Transparent Polycarbonate
Metal (Zinc) Bowl w/o Sight Gauge

Deflector, Element Holder & Baffle Plastic

Drains – Twist Drain –

Body & Stem Plastic
Seals Nitrile

Automatic Pulse Drain –

Piston & Seals Nitrile
Stem, Seat, Adaptor & Washers Aluminum

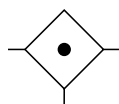
Filter Elements –5 Micron (Standard) Plastic

40 Micron (Optional) Plastic

Adsorber (Optional) Activated Charcoal

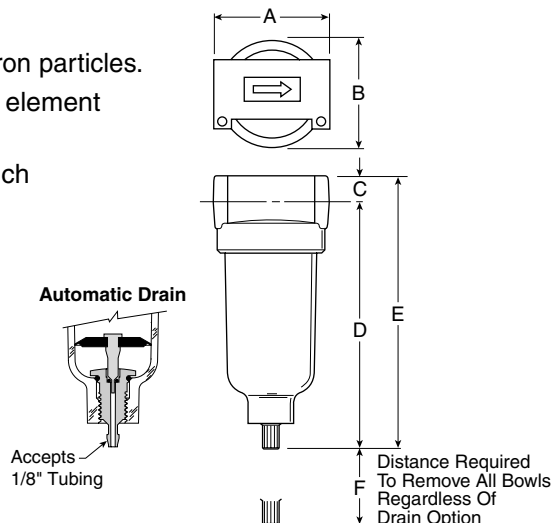
Seals Nitrile

10F Coalescing Filters – Miniature



Features

- Removes liquid aerosols and sub-micron particles.
- Liquids gravitate to the bottom of the element and will not re-enter the airstream.
- Oil free air for critical applications, such as air gauging and pneumatic instrumentation and controls.
- Interchangeable twist and automatic pulse drains.
- Grade 6 Element, 99.97% DOP Efficiency.
- High Flow: Grade 6 Element
1/8" – 17 SCFM §
1/4" – 20 SCFM §
Grade 10 Element
1/8" – 19 SCFM §
1/4" – 24 SCFM §



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

| 10F Coalescing Filter Dimensions | | |
|----------------------------------|----------------|---------------|
| A | B | C |
| 1.69 (43) | 1.56 (39.6) | 0.39 (10) |
| D | D † | E |
| 3.82 (97) | 3.67 (93) | 4.21 (107) |
| E † | F | |
| 4.06 (103) | 1.60 (41) | |

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

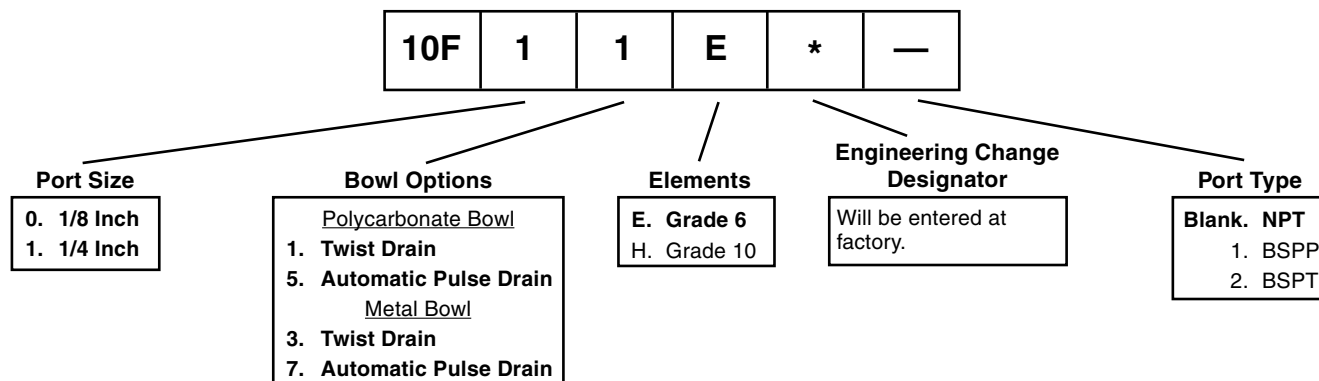
† For polycarbonate bowl see [Caution on page 1](#).

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

Inches (mm)

† With Automatic Pulse Drain

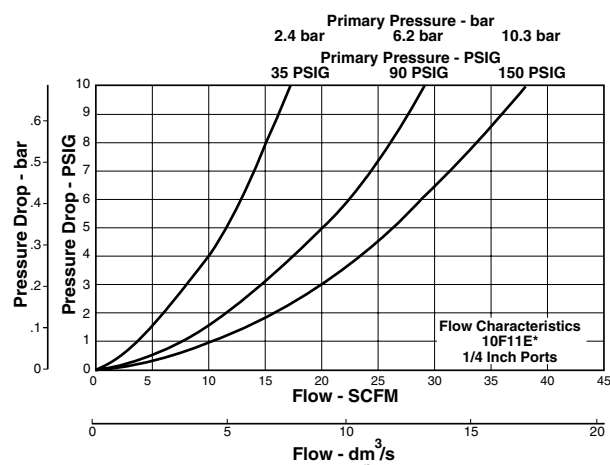
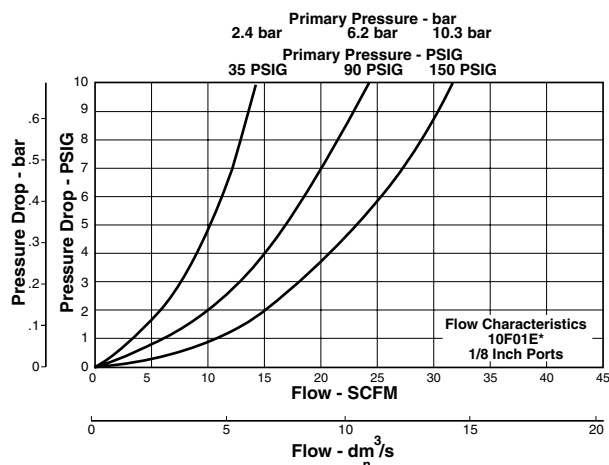
Ordering Information



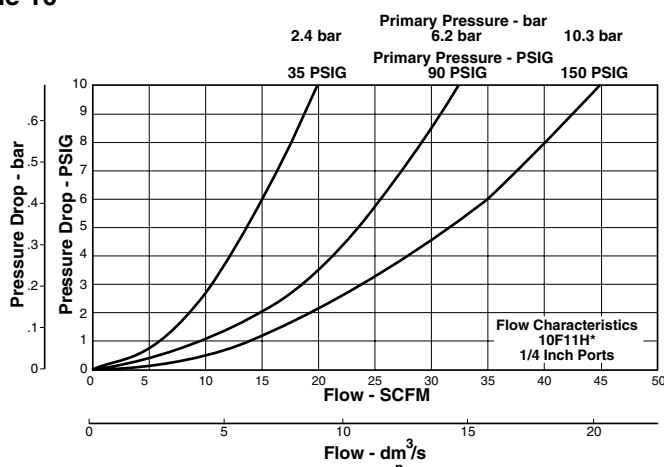
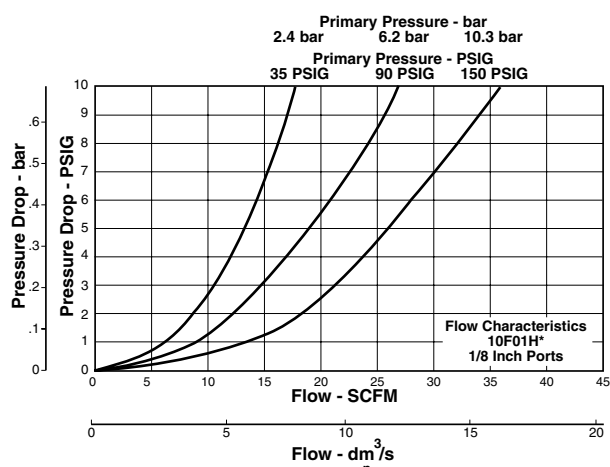
NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information

Grade 6



Grade 10



10F Coalescing Filter Kits & Accessories

Bowl Kits –

Poly Bowl – Automatic Pulse Drain PS408P
Twist Drain PS404P

Metal Bowl – Automatic Pulse Drain PS451P
Twist Drain PS447BP

Filter Element Kits – Grade 6 (Standard) PS446P
Grade 10 (Optional) PS456P

Mounting Bracket Kit PS417BP

Specifications

Automatic Pulse Drain Tube Barb 1/8 Inch

Bowl Capacity 1 Ounce

Operation –

Normal Operating Pressure Drop 2 PSIG

Maximum Recommended Pressure Drop 10 PSIG
(Element should be replaced)

Port Threads 1/8, 1/4 Inch

Pressure & Temperature Ratings –

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

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

Weight 0.41 lb. (0.18 kg)

Materials of Construction

Body Zinc

Bowls Transparent Polycarbonate
Metal (Zinc) Without Sight Gauge

Drains – Twist Drain –

Body & Stem Plastic
Seals Nitrile

Automatic Pulse Drain –

Piston & Seals Nitrile
Stem, Seat, Adaptor & Washers Aluminum

Element Holder Plastic

Filter Elements Borosilicate & Felt Glass Fibers

Seals Nitrile

Media Specifications

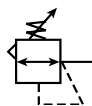
| Grade | D.O.P. Coalescing Efficiency 0.3 to 0.6 Micron Particles | Maximum Oil Carryover ¹ PPM w/w | Pressure Drop (PSID) ² @ Rated Flow | | Particulate Micron Rating |
|-------|--|--|---|------------------------------------|---------------------------------|
| | | | Media Dry | Media Wet With 10-20 wt. oil | |
| 6 | 99.97% | 0.008 | 1.0 | 2-3 | 0.01 |
| 10 | 95% | 0.85 | 0.5 | 0.5 | 0.7 |

¹ Tested per BCAS 860900 at 40 ppm inlet.

² Add dry + wet for total pressure drop.

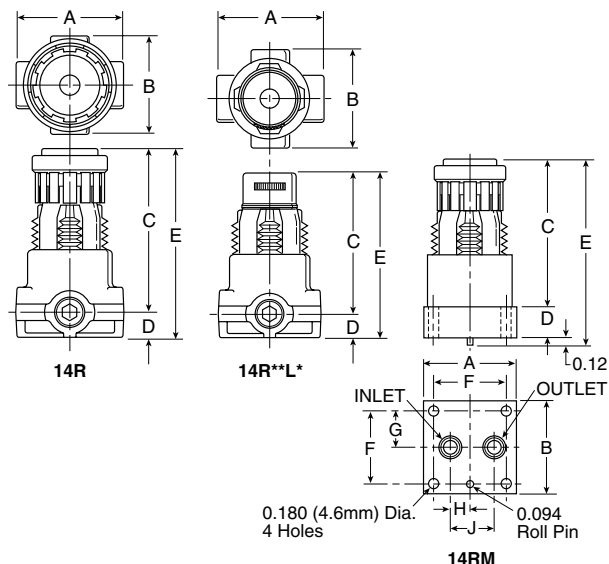
D.O.P. = Dioctylphthalate

14R Regulators – Miniature



Features

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



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

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

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

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

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

Inches (mm)

Ordering Information

NOTE: BOLD OPTIONS ARE STANDARD.

| | | | | | | | |
|------------|----------|-----------|----------|----------|----------|----------|------------|
| 14R | 1 | 13 | F | * | — | — | --- |
|------------|----------|-----------|----------|----------|----------|----------|------------|

Port Size

0. 1/8 Inch Pipe, 1/8 Inch Gauge Port
1. 1/4 Inch Pipe, 1/8 Inch Gauge Port
B. 1/4 Inch Pipe, 1/4 Inch Gauge Port
C. 1/8 Inch Pipe, No Gauge Port
D. 1/4 Inch Pipe, No Gauge Port
M. Manifold Mounting

Pressure Range

| Without Gauge | |
|---------------------|---------------------|
| Yellow Knob | Black Knob |
| 10. 30 PSIG | B0. 30 PSIG |
| 11. 60 PSIG | B1. 60 PSIG |
| 12. 15 PSIG | B2. 15 PSIG |
| 13. 125 PSIG | B3. 125 PSIG |
| With Gauge | |
| 15. 30 PSIG | B5. 30 PSIG |
| 16. 60 PSIG | B6. 60 PSIG |
| 17. 15 PSIG | B7. 15 PSIG |
| 18. 125 PSIG | B8. 125 PSIG |

Relief

- F. Relieving
G. Non-Relieving

Port Type

- Blank. NPT
1. BSPP
2. BSPT

Options

- Blank. L. †
P. †
S. †
T. †
- No Options
Preset Non-Adjustable
Preset Adjustable
Pressure Limiter Max. Adjustable
Pressure Limiter Max. Non-Adjustable

Preset / Pressure Limited

- Blank. None
XXX* Preset Pressure
XXX* Pressure Limited

* Available Preset / Pressure Limited Range, 10 to 90 PSIG in 5 PSIG increments. For higher pressures, contact factory.
(Example: 065 = 65 PSIG)

Engineering Change Designator

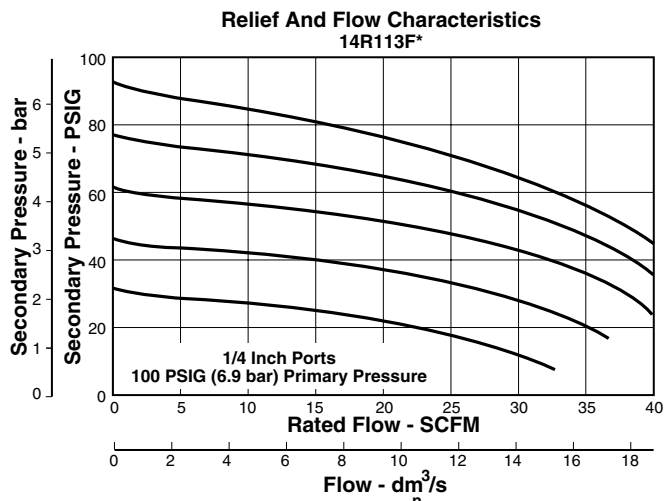
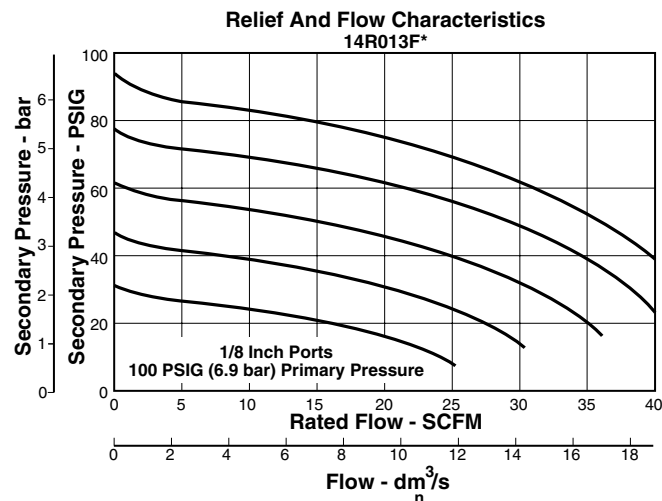
Will be entered at factory.

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

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

Technical Information

**CAUTION:**

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

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

⚠ WARNING

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

14R Regulator Kits & Accessories

| | |
|--|---------|
| Body Service Kit – Unbalanced | PS424BP |
| Bonnet Assembly Kit | L01369 |
| Gauges – 30 PSIG, 1/8" NPT (0 to 2.1 bar) | P530156 |
| 60 PSIG, 1/8" NPT (0 to 4.1 bar) | P530154 |
| 160 PSIG, 1/8" NPT (0 to 11.0 bar) | P77413 |
| 60 PSIG, 1/4" NPT (0 to 4.1 bar) | P781641 |
| 160 PSIG, 1/4" NPT (0 to 11.0 bar) | P781642 |
| Mounting Bracket Kit (Includes Panel Mount Nut) | PS417BP |
| Panel Mount Nuts –Plastic | P78652 |
| Metal | P01531 |
| Service Kits – Non-Relieving | PS422P |
| Relieving | PS423P |
| Springs – 1-15 PSIG Range (Yellow) | P01176 |
| 1-30 PSIG Range (Black) | P01175 |
| 1-60 PSIG Range (White) | P01174 |
| 2-125 PSIG Range (Gold) | P01173 |

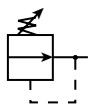
Specifications

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

Materials of Construction

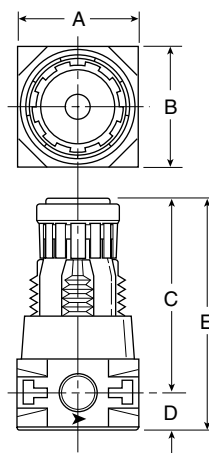
| | |
|--|---------|
| Adjusting Nut | Brass |
| Adjusting Stem & Spring | Steel |
| Body | Zinc |
| Bonnet, Seat, Piston & Valve Poppet | Plastic |
| Seals | Nitrile |

P3A-R Regulators – Miniature



Features

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



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

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

Inches (mm)

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

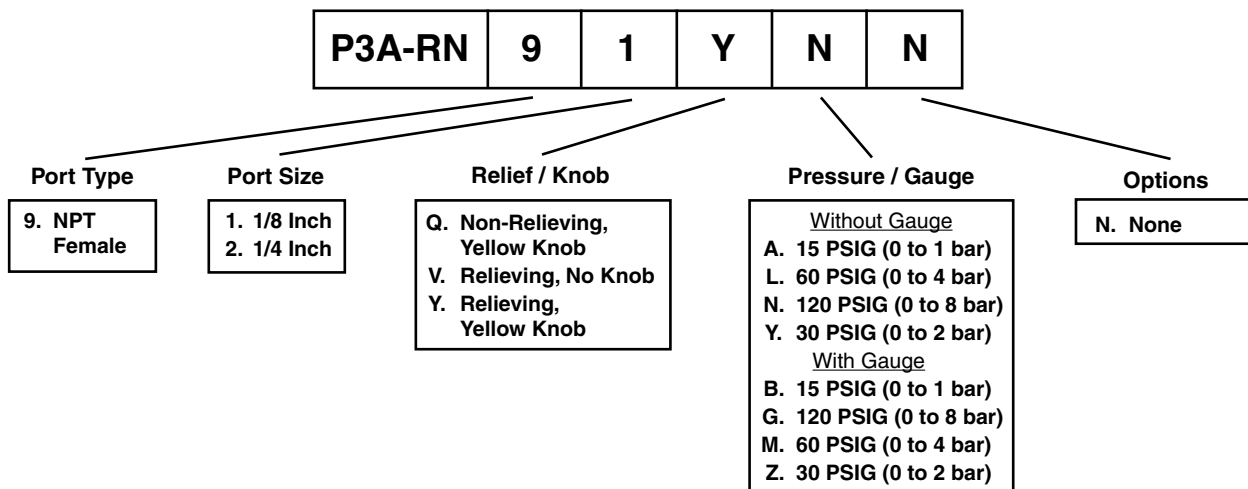
NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

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

WARNING

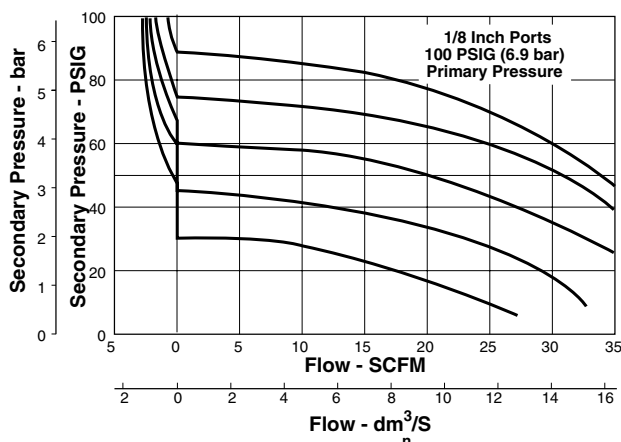
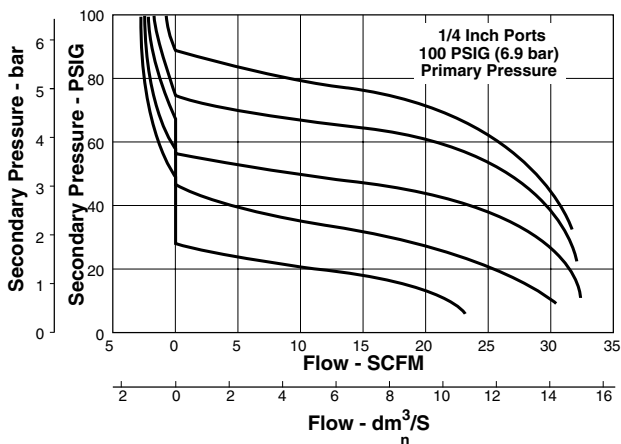
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

Ordering Information



NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information

Relief And Flow Characteristics
P3A-RN91YNNRelief And Flow Characteristics
P3A-RN92YNN

Regulator Kits and Accessories

| | |
|--|---------|
| Gauges – 30 PSIG, 1/8" NPT (0 to 2.1 bar) | P530156 |
| 60 PSIG, 1/8" NPT (0 to 4.1 bar) | P530154 |
| 160 PSIG, 1/8" NPT (0 to 11.0 bar) | P77413 |
| Panel Mount Nut | P78652 |
| Mounting Bracket Kit | PS417BP |
| Service Kits – Piston Non-Relieving | PS422 |
| Piston Relieving | PS423 |
| Poppet Service Kits – Balanced | PS425B |
| Unbalanced | PS424B |
| Springs – 1-15 PSIG Spring (Yellow) | P01176 |
| 1-30 PSIG Spring (Black) | P01175 |
| 1-60 PSIG Spring (White) | P01174 |
| 5-110 PSIG Spring (Gold) | P01173 |

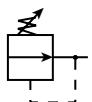
Specifications

| | |
|--|-----------------------------|
| Gauge Ports (2) | 1/8 Inch |
| Operating Pressure Range – | PSIG bar |
| Primary – | |
| Maximum | 120 8.3 |
| Secondary – | |
| 15 PSIG Spring Minimum | 1 0.07 |
| Maximum | 15 1.0 |
| 30 PSIG Spring Minimum | 6 0.4 |
| Maximum | 30 2.1 |
| 60 PSIG Spring Minimum | 6 0.4 |
| Maximum | 60 4.1 |
| 110 PSIG Spring Minimum | 6 0.4 |
| Maximum | 110 7.6 |
| Operating Temperature Range | 32°F to 125°F (0°C to 52°C) |
| Port Threads | 1/8, 1/4 Inch |
| Weight | 0.23 lb. (0.10 kg) |

Materials of Construction

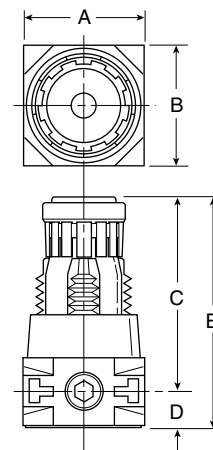
| | |
|--|-------------------|
| Adjusting Nut | Brass |
| Adjusting Stem and Spring | Steel |
| Poppet Return Spring | Stainless Steel |
| Body | Plastic |
| Bonnet, Seat and Piston | Plastic |
| Seals | Nitrile |
| Valve Poppet | Plastic & Nitrile |

P3A-W Regulators – Miniature (Water Service)



Features

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



| Port Size | NPT |
|---------------|--------------------|
| Without Gauge | |
| 1/8" | P3A-WN91QNN |
| 1/4" | P3A-WN92QNN |

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

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

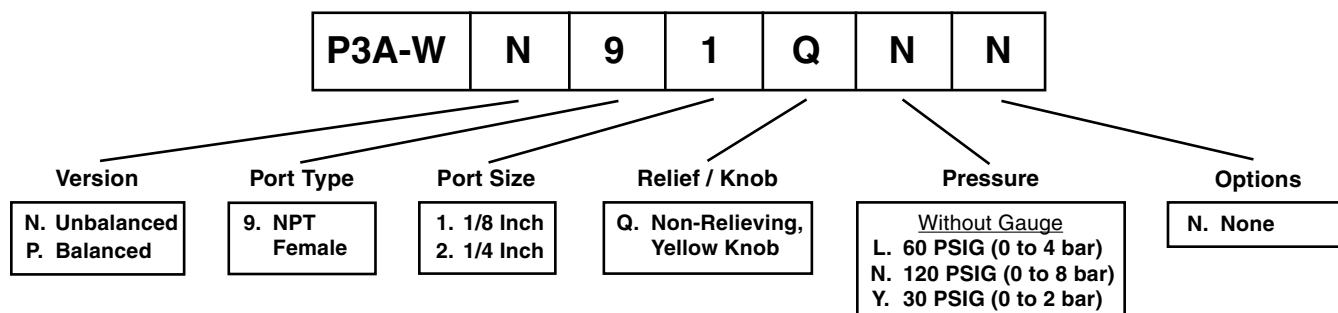
| P3A-W Regulator Dimensions | | | |
|----------------------------|--------------|--------------|--------------|
| A | B | C | D |
| 1.57 (40) | 1.57 (40) | 2.50 (64) | 0.46 (12) |
| E | | | |
| 2.96 (75) | | | |

Inches (mm)

WARNING

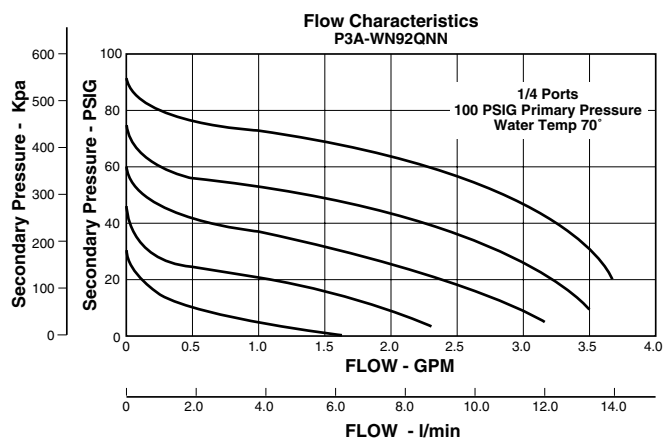
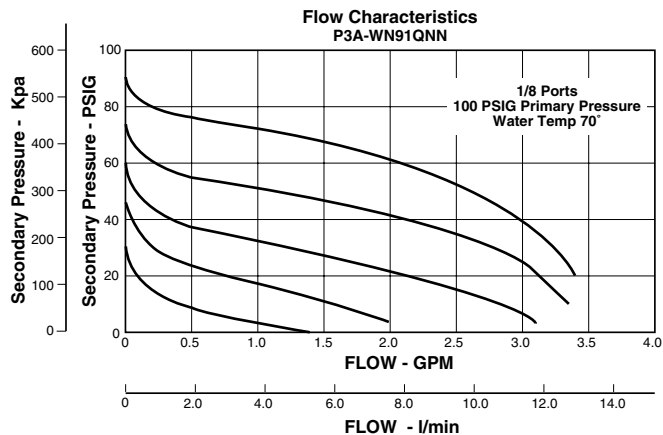
Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.

Ordering Information



NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information



Regulator Kits and Accessories

| | |
|---|---------|
| Panel Mount Nut | P78652 |
| Mounting Bracket Kit | PS417BP |
| Service Kits – Piston Non-Relieving | PS422 |
| Poppet Service Kits – Balanced | PS425B |
| Unbalanced | PS424B |
| Springs – 1-30 PSIG Spring | P78659B |
| 1-60 PSIG Spring | P00411 |
| 5-125 PSIG Spring | P78660B |

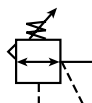
Specifications

| | |
|---------------------------------------|-----------------------------------|
| Gauge Ports (2) | 1/8 Inch |
| (Can be used for full flow) | |
| Pressure Rating – | |
| Maximum Inlet Pressure 150 PSIG | (10.0 bar) |
| Port Threads | 1/8, 1/4 Inch |
| Temperature Rating | Water 40°F to 125°F (4°C to 52°C) |
| Weight | 0.23 lb. (0.10 kg) |

Materials of Construction

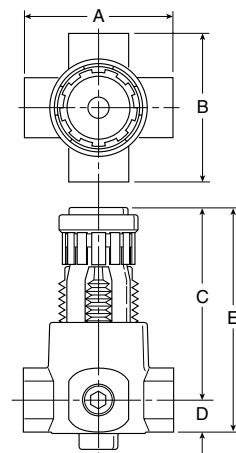
| | |
|-------------------------------|------------------------------------|
| Adjusting Nut | Brass |
| Adjusting Stem | Brass |
| Body | Plastic |
| Bonnet, Seat and Piston | Plastic |
| Diaphragm | Santoprene |
| Seals | Buna N or Thermo Plastic Elastomer |
| Springs | Stainless Steel |
| Valve Poppet | Plastic / Nitrile |

15R Regulators – Economy



Features

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



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

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

Inches (mm)

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

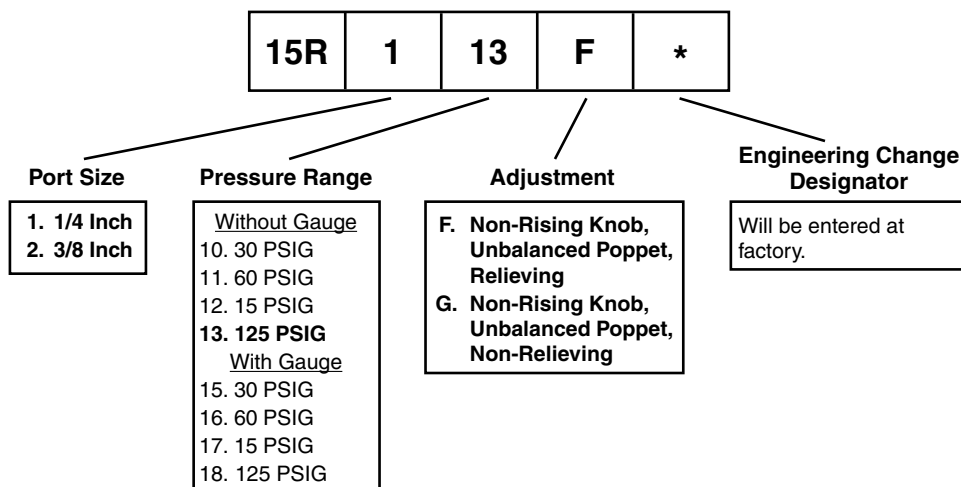
NOTE: 1.218 Dia. (31mm) hole required for panel mounting.

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

WARNING

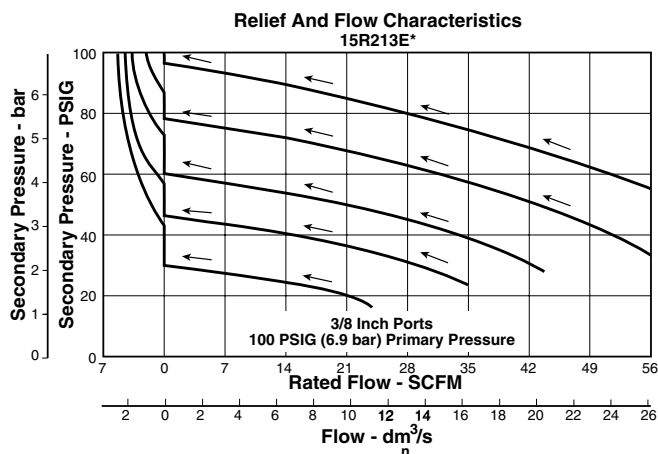
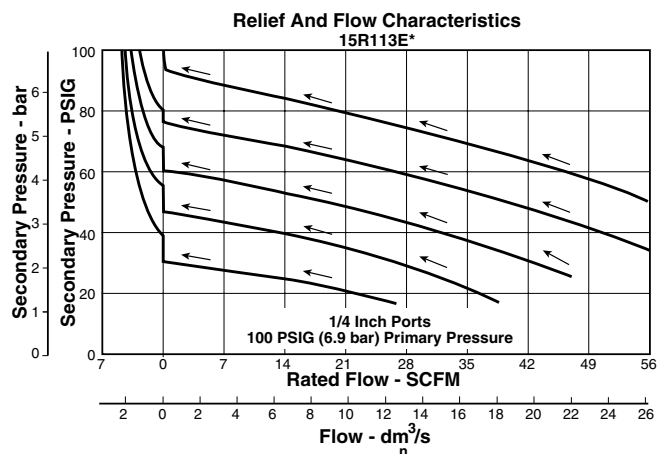
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

Ordering Information



NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information

**CAUTION:**

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

15R Regulator Kits & Accessories

| | |
|--|---------|
| Body Service Kit – Unbalanced | PS424BP |
| Bonnet Assembly Kit | L01369 |
| Gauges – 30 PSIG, 1/8" NPT (0 to 2.1 bar) | P530156 |
| 60 PSIG, 1/8" NPT (0 to 4.1 bar) | P530154 |
| 160 PSIG, 1/8" NPT (0 to 11.0 bar) | P77413 |
| 60 PSIG, 1/4" NPT (0 to 4.1 bar) | P781641 |
| 160 PSIG, 1/4" NPT (0 to 11.0 bar) | P781642 |
| Mounting Bracket Kit (Includes Panel Mount Nut) | PS417BP |
| Panel Mount Nuts –Plastic | P78652 |
| Metal | P01531 |
| Service Kits – Non-Relieving | PS422P |
| Relieving | PS423P |
| Springs – 1-15 PSIG Range (Yellow) | P01176 |
| 1-30 PSIG Range (Black) | P01175 |
| 1-60 PSIG Range (White) | P01174 |
| 2-125 PSIG Range (Gold) | P01173 |

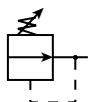
Specifications

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

Materials of Construction

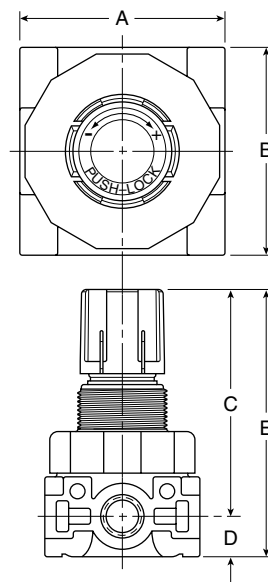
| | |
|--|---------|
| Adjusting Nut | Brass |
| Adjusting Stem & Spring | Steel |
| Body | Zinc |
| Bonnet, Seat, Piston & Valve Poppet | Plastic |
| Seals | Nitrile |

R45 Regulators – Miniature (Air / Water Service)



Features

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



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

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

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

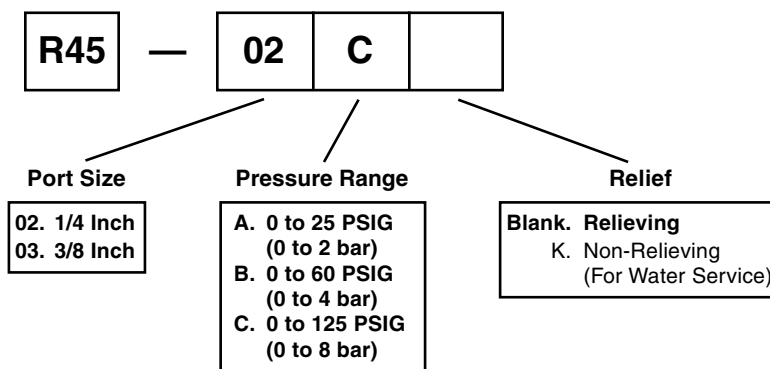
| R45 Regulator Dimensions | | | |
|--------------------------|----------------|----------------|----------------|
| A | B | C | D |
| 2.06 (52.3) | 2.06 (52.3) | 2.90 (73.7) | 0.53 (13.5) |
| E | | | |
| 3.43 (87.1) | | | |

Inches (mm)

WARNING

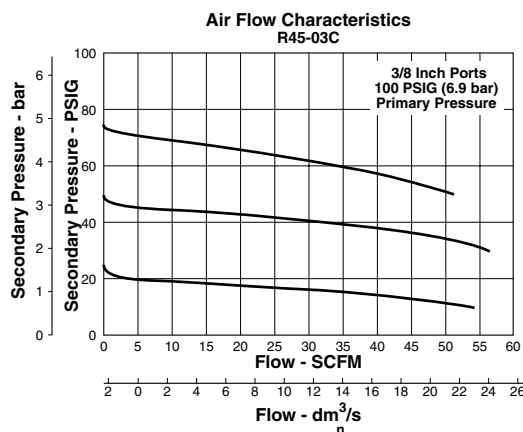
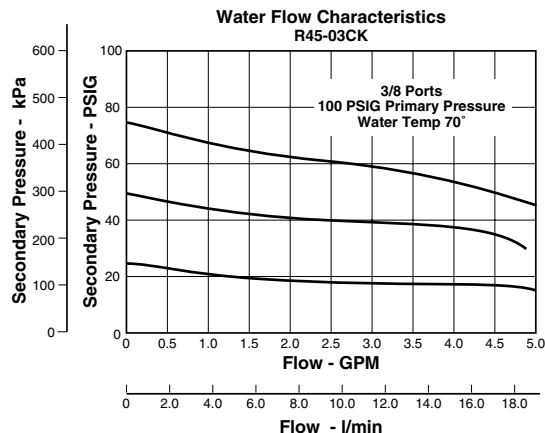
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

Ordering Information



NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information



Regulator Kits and Accessories

Panel Mount Nut –

| | |
|----------------|---------|
| Plastic | R05X51 |
| Aluminum | R05X51A |

Mounting Bracket and Nut SA161X57

Service Kits –

| | |
|---------------------|---------|
| Relieving | RKR45Y |
| Non-Relieving | RKR45KY |

| | |
|---|--------|
| Springs – 0-25 PSIG Spring | SPR-46 |
| 0-60 PSIG Spring | SPR-47 |
| 0-125 PSIG Spring | SPR-48 |

Specifications

Gauge Ports (2) 1/4 Inch
(Can be used for full flow)

Pressure Rating –

Maximum Inlet Pressure 150 PSIG (10.0 bar)

Port Threads 1/4, 3/8 Inch

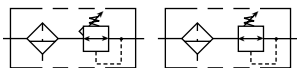
Temperature Rating 40°F to 125°F (4°C to 52°C)

Weight 0.38 lb. (0.17 kg)

Materials of Construction

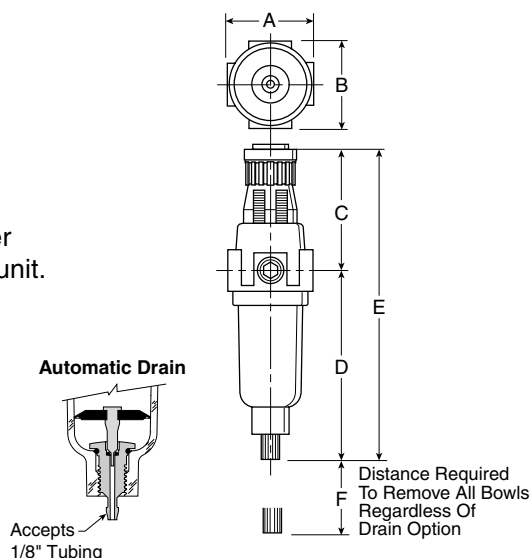
| | |
|------------------------------|-----------------|
| Adjusting Screw | Steel |
| Body | Acetal |
| Bonnet and Seat | Acetal |
| Diaphragm | Buna N |
| Seals | Buna N |
| Springs | Stainless Steel |
| Valve Poppet | Buna N |

14E Filter / Regulator – Miniature



Features

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



| Port Size | NPT | |
|-------------|-------------------|-----------------------|
| | Twist Drain | Automatic Pulse Drain |
| Poly Bowl † | | |
| 1/8" | 14E01B13F* | 14E05B13F* |
| 1/4" | 14E11B13F* | 14E15B13F* |
| Metal Bowl | | |
| 1/8" | 14E03B13F* | 14E07B13F* |
| 1/4" | 14E13B13F* | 14E17B13F* |

| 14E Piggyback Dimensions | | |
|--------------------------|--------------|---------------|
| A | B | C |
| 1.62 (41) | 1.58 (40) | 2.42 (61) |
| D | D† | E |
| 3.79 (96) | 3.64 (92) | 6.21 (158) |
| E† | F | |
| 6.06 (154) | 1.60 (41) | |

Inches (mm)
† With Auto Drain

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

† For polycarbonate bowl see Caution on page 1.

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

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

Ordering Information

NOTE: BOLD OPTIONS ARE STANDARD.

| | | | | | | | | | |
|------------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|
| 14E | 1 | 1 | B | 13 | F | * | — | — | --- |
|------------|----------|----------|----------|-----------|----------|----------|----------|----------|------------|

Port Size

0. 1/8 Inch
1. 1/4 Inch

Elements

A. 40 Micron
B. 5 Micron
Z. Adsorber

Relief

F. Relieving
G. Non-Relieving

Port Type

Blank. NPT
1. BSPP
2. BSPT

Preset / Pressure Limited

Blank. None
XXX* Preset Pressure
XXX* Pressure Limited

Bowl Options

Polycarbonate Bowl
1. Twist Drain
5. Automatic Drain
Metal Bowl
3. Twist Drain
7. Automatic Drain

Pressure Range

| Without Gauge | With Gauge |
|---------------------|--------------|
| 10. 30 PSIG | 15. 30 PSIG |
| 11. 60 PSIG | 16. 60 PSIG |
| 12. 15 PSIG | 17. 15 PSIG |
| 13. 125 PSIG | 18. 125 PSIG |

Engineering Change Designator

Will be entered at factory.

Options

Blank. No Options
L.† Preset Non-Adjustable
P.† Preset Adjustable
S.† Pressure Limiter Max. Adjustable
T.† Pressure Limiter Max.

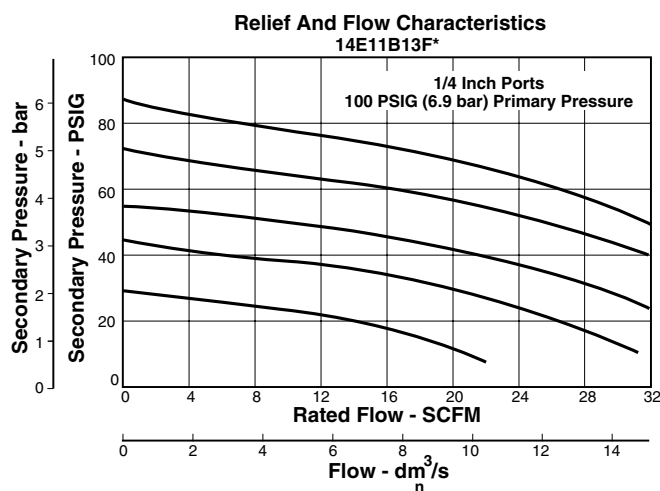
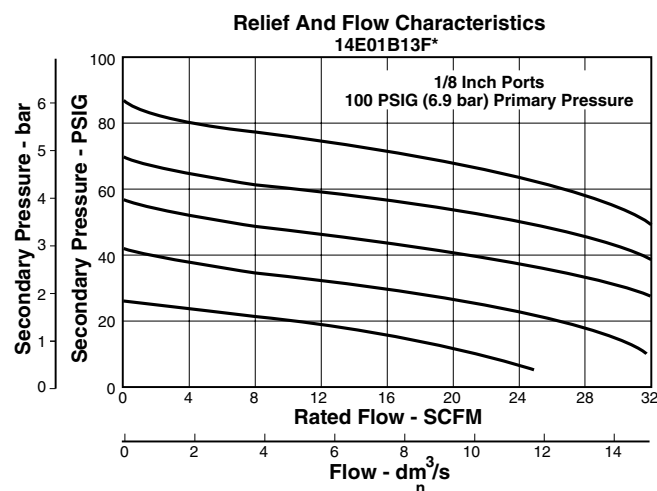
Spring Type by Preset / Limited Pressure:

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

† 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)

Technical Information

**CAUTION:**

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

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

WARNING

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

14E Filter / Regulator Kits & Accessories**Bowl Kits –**

Poly Bowl – Automatic Drain PS408P
Twist Drain PS404P

Metal Bowl – Automatic Drain PS451P
Twist Drain PS447BP

Filter Element Kits – 40 Micron PS401P
5 Micron PS403P
Adsorber PS452P

Gauges – 30 PSIG (0 to 2.1 bar) P530156
60 PSIG (0 to 4.1 bar) P530154
160 PSIG (0 to 11.0 bar) P77413

Mounting Bracket Kit (Includes Panel Mount Nut) PS417BP

Panel Mount Nut P78652

Poppet Kits – Unbalanced PS424BP
Balanced PS425BP

Service Kits – Non-Relieving PS422P
Relieving PS423P

Springs – 1- 15 PSIG Range (Yellow) P01176
1- 30 PSIG Range (Black) P01175
1- 60 PSIG Range (White) P01174
2- 125 PSIG Range (Gold) P01173

Specifications

Automatic Pulse Drain Tube Barb 1/8 Inch

Bowl Capacity 1 Ounce

Gauge Ports (2) (Can be used for Full Flow) 1/8 Inch

Port Threads 1/8, 1/4 Inch

Pressure & Temperature Ratings –

Polycarbonate Bowl

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

Metal Bowl

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

Secondary Pressure Ranges –

Standard Pressure 2 to 125 PSIG (0 to 8.6 bar)

Medium Pressure 1 to 30 PSIG (0 to 2.1 bar)

Medium Pressure 1 to 60 PSIG (0 to 4.1 bar)

Low Pressure 1 to 15 PSIG (0 to 1 bar)

Weight 0.4 lb. (0.18 kg)

Materials of Construction

Adjusting Nut Brass

Adjusting Stem & Spring Steel

Body Zinc

Bonnet, Knob, Seat, Piston, Holder & Deflector Plastic

Bowls Available – Transparent Polycarbonate

Metal (Without Sight Gauge) Zinc

Drains – Manual – Twist Type

Body & Stem Plastic

Seals Nitrile

Automatic – Pulse Type

Piston & Seals Nitrile

Stem, Seat, Adaptor & Washers Aluminum

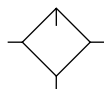
Filter Elements – 5 Micron (Standard) Plastic

40 Micron (Optional) Plastic

Adsorber (Optional) Activated Charcoal

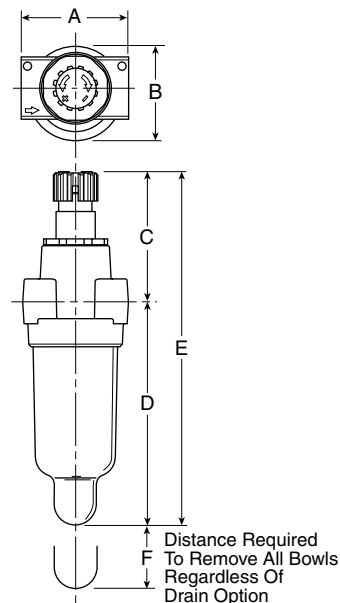
Seals Nitrile

04L Mist Lubricators – Miniature



Features

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



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

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

Inches (mm)

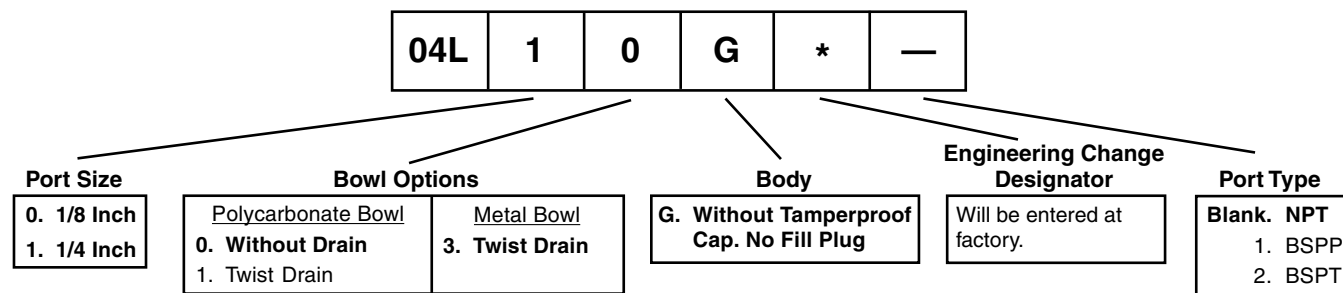
† With Twist Drain

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

‡ For polycarbonate bowl see [Caution on page 1](#).

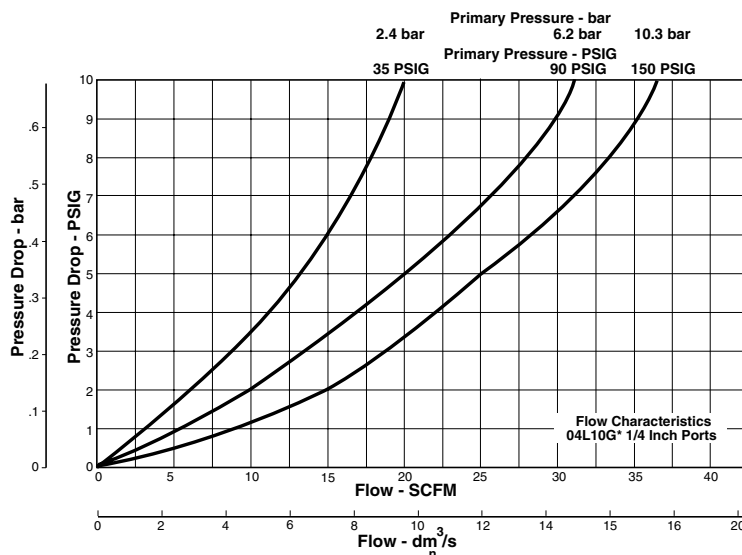
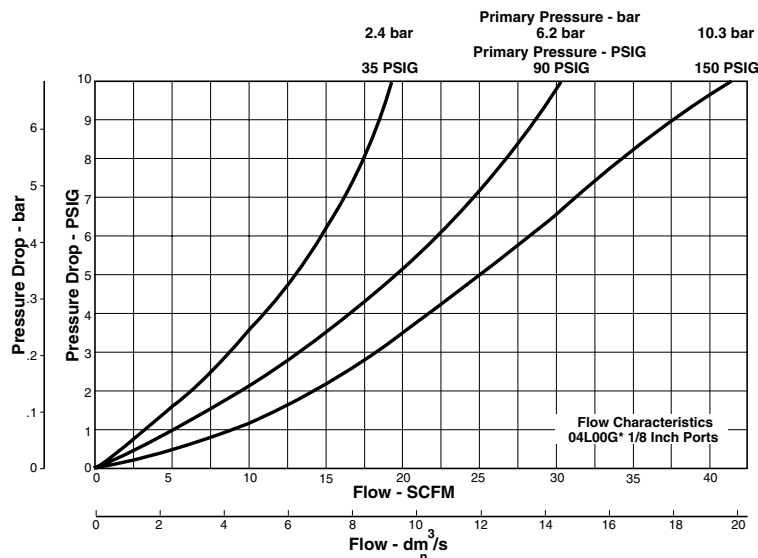
§ SCFM = Standard cubic feet per minute at 90 PSIG inlet and 5 PSIG pressure drop.

Ordering Information



NOTE: BOLD OPTIONS ARE STANDARD.

Technical Information



04L Mist Lubricator Kits & Accessories

Bowl Kits –

| | |
|----------------------------|--------|
| Poly Bowl – No Drain | PS421P |
| Twist Drain | PS420P |

| | |
|---|---------|
| Metal Bowl – Twist Drain (No Sight Gauge) | PS447BP |
|---|---------|

Mounting Bracket Kit PS419

| | |
|---------------------|---------|
| Oil – 1 Gal. | F442002 |
| 12 Quart Case | F442003 |
| 4 Gallon Case | F442005 |

Specifications

Bowl Capacity 1 Ounce

Minimum Flow for Lubrication 0.5 SCFM at 100 PSIG

Port Threads 1/8, 1/4 Inch

Pressure & Temperature Ratings –

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

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

Suggested Lubricant – F442 Oil

Petroleum based oil of 100 to 200 SSU viscosity at
100°F and an aniline point greater than 200°F

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

Weight 0.4 lb. (0.18 kg)

Materials of Construction

Body Zinc

Bowls – Transparent Polycarbonate

Metal (Without Sight Gauge) Zinc

Drains – Twist – Body & Nut Plastic

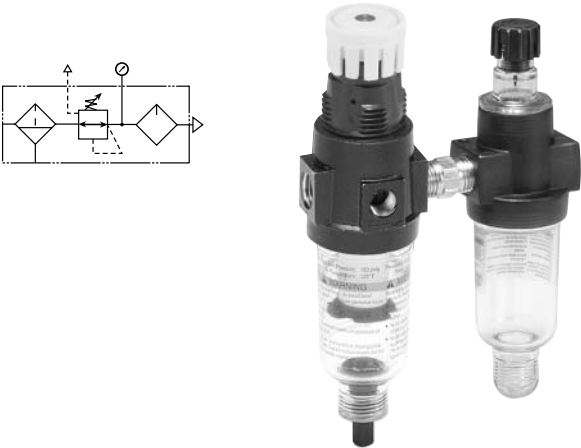
Seals Nitrile

Sight Dome Polycarbonate

Close Nipped Combinations – 14 Miniature Series

- See individual component pages for details.

Two-Unit
Combo



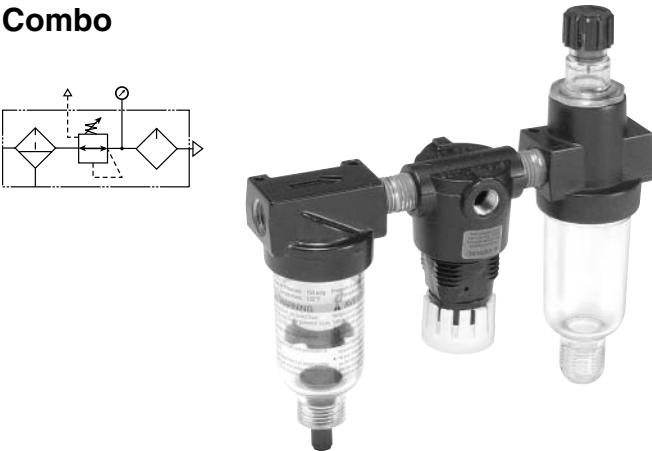
| Series | Port | Model Numbers |
|--------|------|---------------|
| 14G | 1/8" | 14G01B13F0G* |
| | 1/4" | 14G11B13F0G* |

| A | B | C | D | E | F |
|--------------|--------------|--------------|--------------|---------------|--------------|
| 3.75 (95) | 3.79 (96) | 2.42 (61) | 2.04 (52) | 6.21 (158) | 0.79 (20) |

Inches (mm)
Note: All dimensions nominal.

For other models, refer to [ordering information on next page](#).

Three-Unit
Combo



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

| A | B | C | D | E | F |
|---------------|--------------|--------------|--------------|---------------|--------------|
| 5.77 (147) | 3.82 (97) | 2.16 (55) | 2.04 (52) | 5.98 (152) | 0.79 (20) |

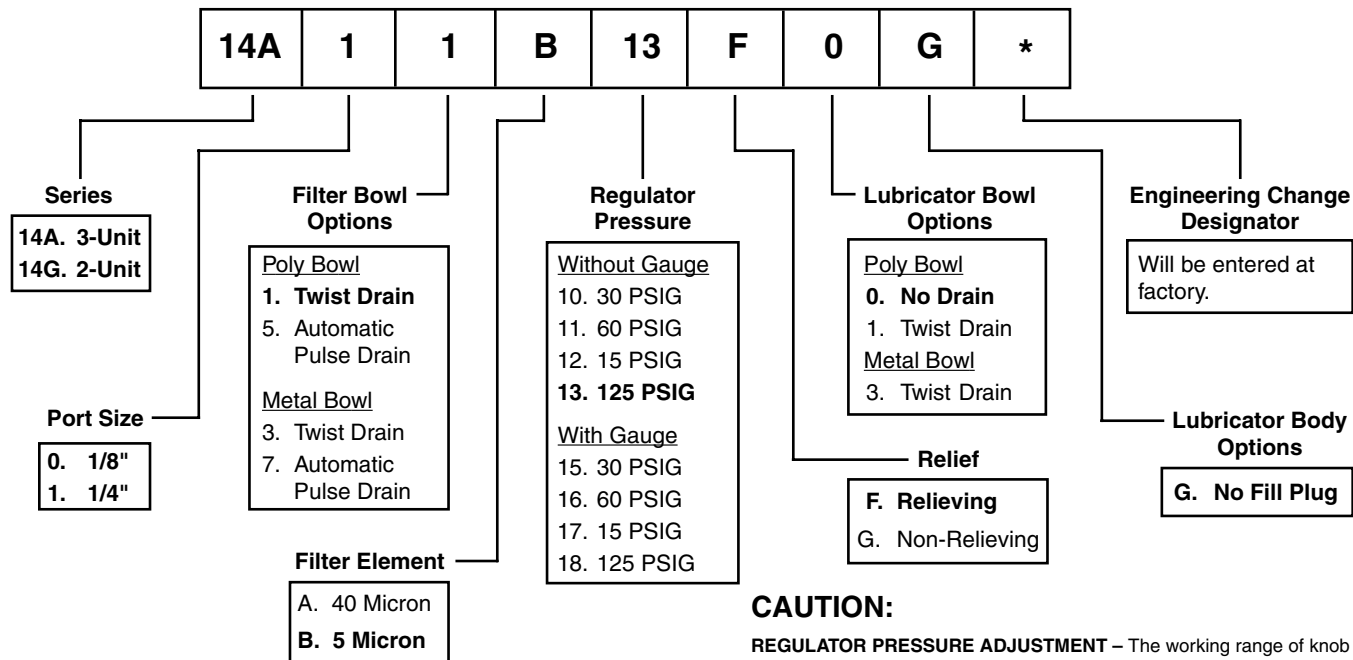
Inches (mm)
Note: All dimensions nominal.

For other models, refer to [ordering information on next page](#).

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

Close Nipped Combinations – 14 Miniature Series

Ordering Information

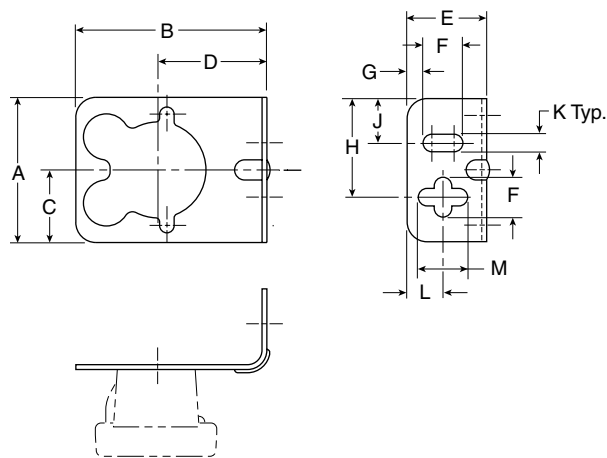


NOTE: BOLD OPTIONS ARE STANDARD.

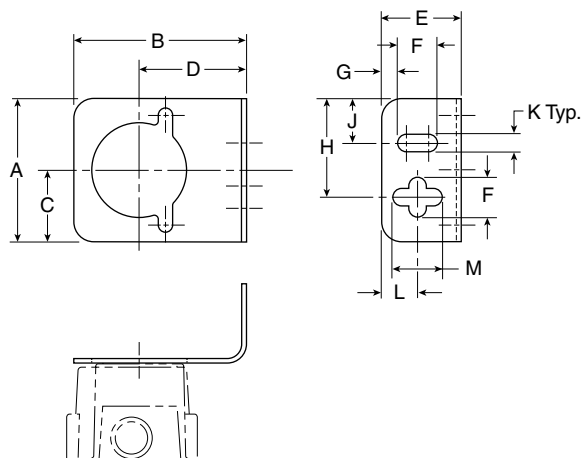
CAUTION:

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.

Mounting Bracket Kits



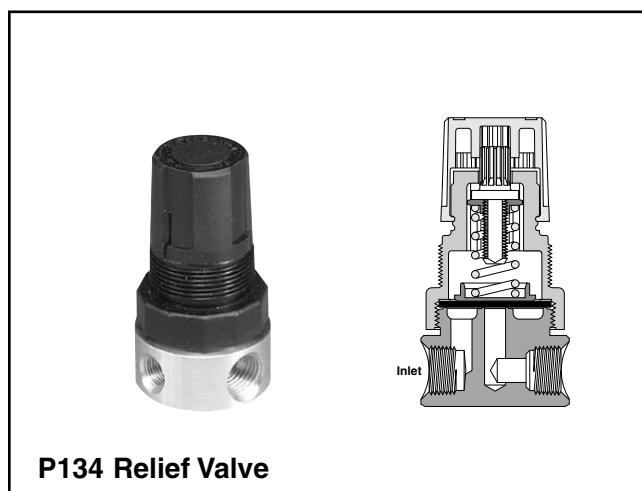
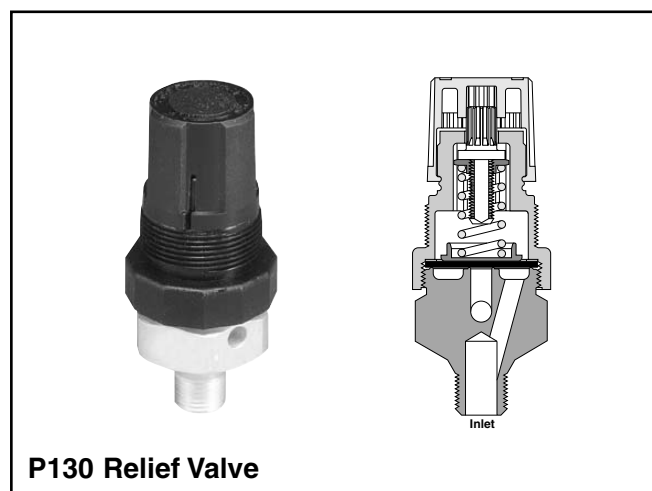
PS417BP
(Includes Panel Mount Nut)



PS419

Dimensions

| | A | B | C | D | E | F | G | H | J | K | L | M | Kit |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| inches | 1.80 | 2.37 | 0.90 | 1.35 | 1.00 | 0.50 | 0.20 | 1.24 | 0.56 | 0.22 | 0.45 | 0.62 | PS417BP (14F, 10F, 14R, 14E) |
| mm | 46 | 60 | 23 | 34 | 25 | 13 | 5 | 31 | 14 | 6 | 11 | 16 | |
| inches | 1.80 | 2.17 | 0.90 | 1.35 | 1.00 | 0.50 | 0.20 | 1.24 | 0.56 | 0.22 | 0.45 | 0.62 | PS419 (04L) |
| mm | 46 | 55 | 23 | 34 | 25 | 13 | 5 | 31 | 14 | 6 | 11 | 16 | |



Features

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

Applications

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

Operation

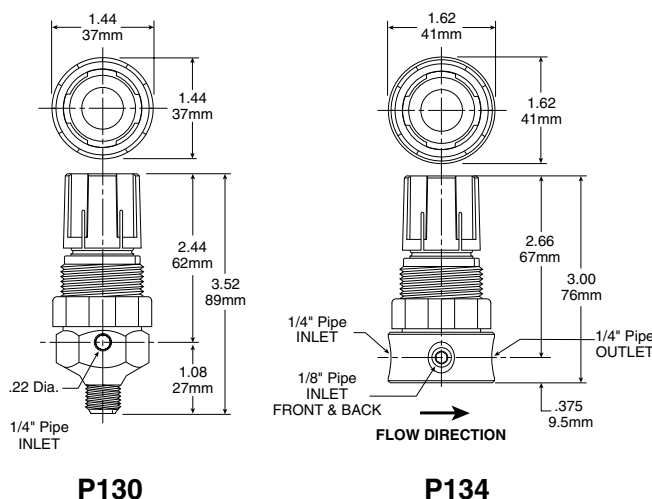
- Turn relief valve knob clockwise for maximum pressure.
- Set pressure going into relief valve at desired pressure.
- Turn relief valve knob counter-clockwise until exhaust starts to bleed.
- Turn relief valve knob clockwise until exhaust stops bleeding. Push to lock knob.

Ordering Information

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

* Panel mount nut included.

Dimensions



Relief Valve Kits

Bonnet Assembly Kit PCKR364Y
Panel Mount Nut PR05X51

Specifications

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

Materials of Construction

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

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9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

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Parker Hannifin Corporation

Pneumatic Division

8676 E. M89

P.O. Box 901

Richland, MI 49083 USA

Tel: (269) 629-5000

Fax: (269) 629-5385

Customer/Technical Service

Tel: (269) 629-5575

Fax: (269) 629-5385

Web site: www.parker.com/pneumatic

E-mail: PDNMKTG@parker.com