Adequate pressure regulation is necessary for the efficient use of pneumatic equipment. Monnier regulators are built in a variety of sizes (1/8” through 1-1/2”) and with varied specifications to help suit each application’s requirements. Our regulators are built with two basic designs. Diaphragm operated regulators are used to offer a quick response and maximum accuracy. Piston operated regulators provide the highest air flow possible in the larger regulator series. Monnier regulators can also be offered as relieving or non-relieving, depending on the specific needs of the application.

Monnier designs a wide variety of compressed air regulators to provide constant pressure. Standard regulators are suitable for optimal pressure ranges from 0-10 psi to 20-250 psi.

**Additional Options**

- Preset at the factory
- Preset and tamper-resistant
- Lock and key regulators to eliminate unwanted adjustment
- Reverse flow regulators
- Manifold mount regulators
- Pilot operated regulators
- Anodizing available in any of eight standard colors for any regulator
- Multiple mounting options for all regulators; pipe, bracket or panel mounting

**Features**

- All regulators will adjust to zero psi (shutoff) and to pressure above the range shown.
- Gauge port plugs are included with all regulators.
- Fluorocarbon seals available in place of Buna-N.
- All regulators available with pressure gauges corresponding to the pressure range.

**Specifications**

- Maximum Inlet Pressure: 250 PSI
- Maximum Temperature: 175°F
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**Warning**

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

**WARRANTY:** Monnier, Inc. warrants each product against defects in material and workmanship for a period of one year from the date of manufacture providing its use was in accordance with Monnier, Inc. recommendations. If the product fails to perform as warranted, Monnier, Inc. will, at its option, repair or replace the product free of charge. The company will not be liable for incidental or consequential damages. We make no other warranty, expressed or implied, including warranties of merchantability or fitness for a particular purpose.
Feasures
- Machined aluminum body provides close tolerances for exceptional accuracy, repeatability and responsiveness
- Available with polycarbonate bonnet with locking ring or aluminum bonnet and locking nut
- Diaphragm style regulator for minimal hysteresis and greater accuracy and responsiveness
- Constant bleed fitting available for even greater accuracy
- Relieving and non-relieving versions available
- Gauge port plugs included
- Preset and tamperproof options available
- Also available with brass body for water service (non-relieving recommended)

Materials of Construction
Body: Machined Aluminum or Brass
Bonnet: 101-3000: Polycarbonate
111/102-3000: Aluminum
Adjustment Screw: 101-3000: Black Oxide Coated Steel
111/102-3000: Zinc Plated Steel (102 series)
Poppet Seat: Nylon
Diaphragm Assembly: Zinc Plated Steel, Brass, Buna-N (Fluorocarbon available)
Seals: Buna-N (Fluorocarbon available)
Poppet Spring: Stainless Steel
Compression Spring: Music Wire, Spring Steel
Bracket: Zinc Plated Steel
Panel Nut: Machined Aluminum

Operating Specifications
Gauge Ports: 1/8” NPT
Maximum Inlet Pressure: 250 PSIG
Temperature Range: 0-175°F
Weight: 87 g

Flow Characteristics
PRIMARY PRESSURE: 120 PSIG
FLOW RATE: SCFM

Accessories & Kits
Panel Nuts: 13133 (101-3000 Series); 13025 (111/102-3000 Series)
Bracket Kits: 13536 (101-3000 Series); 13534 (111/102-3000 Series)
Service Kits: 13532 (Relieving); 13533 (Non-Relieving)
Constant Bleed Fitting: 13520

Dimensions
2 3/4
13/32
1 7/16 DIA

Ordering Information
101-3000-2

OPTIONS
Anodizing
No Anodizing Blank
Blue A1
Black A2
Clear A3
Green A4
Red A5
Yellow A6
Gold A7
Purple A8

Seals
Buna-N Blank
Fluorocarbon V

Attachment Parts
Bracket Kit B
Gauge G

Tamperproof
Tamperproof T
(Poly Bonnet) TS
(Preset & Tamperproof) PT

Preset P
Preset & Tamperproof PTS

Pipe Size
1/8” 1
1/4” 2
REGULATORS: **101-3100 Manifold Mount Series**

**Features**
- Same performance as the 101-3000 series but with easy to mount manifold interface
- 3/8-24 nipple acts as inlet and mounting mechanism
- No mounting screw or hardware required
- Perfect for multiple pressure manifolds or integrating components in a pneumatic circuit

**Materials of Construction**
- **Body:** Machined Aluminum or Brass
- **Bonnet:** 101-3000: Polycarbonate
  111/102-3000: Aluminum
- **Adjustment Screw:**
  101-3000: Black Oxide Coated Steel
  111/102-3000: Zinc Plated Steel (102 series)
- **Poppet Seat:** Nylon
- **Diaphragm Assembly:** Zinc Plated Steel, Brass, Buna-N (Fluorocarbon available)
- **Seals:** Buna-N (Fluorocarbon available)
- **Poppet Spring:** Stainless Steel
- **Compression Spring:** Music Wire, Spring Steel
- **Bracket:** Zinc Plated Steel
- **Panel Nut:** Machined Aluminum
- **Mounting Nipple:** Zinc Plated Steel

**Operating Specifications**
- **Maximum Inlet Pressure:** 250 PSIG
- **Temperature Range:** 0-175°F
- **Weight:** 87 g

**Flow Characteristics**

**Accessories & Kits**
- **Panel Nuts:** 13133 (101-3000 Series);
  13025 (111/102-3000 Series)
- **Bracket Kits:** 13536 (101-3000 Series);
  13534 (111/102-3000 Series)
- **Service Kits:** 13532 (Relieving);
  13533 (Non-Relieving)
- **Constant Bleed Fitting:** 13520

**Ordering Information**

- **101-3100-M**

**Options**
- **Anodizing**
  - Blank
  - Blue: A1
  - Black: A2
  - Clear: A3
  - Green: A4
  - Red: A5
  - Yellow: A6
  - Gold: A7
  - Purple: A8

- **Pressure**
  - 10-130 Relieving: 00
  - 10-130 Non-Relieving: 01
  - 5-60 Relieving: 02
  - 5-60 Non-Relieving: 03
  - 3-30 Relieving: 04
  - 3-30 Non-Relieving: 05
  - 20-250 Relieving (Aluminum Bonnet Only): 06
  - 20-250 Non-Relieving (Aluminum Bonnet Only): 07
  - 1-10 Relieving: 08
  - 1-10 Non-Relieving: 09

- **Bonnet**
  - Polycarbonate: 01
  - Aluminum w/ Adjusting Screw: 11
  - Aluminum w/ Knob: 02

**Dimensions**
- 2 25/32
- 3/8 –24 UNF
- 2A THREAD
- 1 7/16
REGULATORS: 101C-3000 Reverse Flow Miniature Series

Features
- Provides regulated pressure when flowing inlet to outlet
- Built-in check valve allows unrestricted reverse flow
- Allows regulator to be placed between valve and actuator to regulate cylinder ports independently
- Same accuracy, repeatability and responsiveness as standard 101-3000 regulators

Materials of Construction
Body: Aluminum
Bonnet: Polycarbonate or Aluminum
Adjustment Screw: 101-3000: Black Oxide Coated Steel
111/102-3000: Zinc Plated Steel (102 Series)
Poppet Seat: Nylon
Diaphragm Assembly: Zinc Plated Steel, Brass, Buna-N (Fluorocarbon available)
Seals: Buna-N (Fluorocarbon available)
Poppet Spring: Stainless Steel
Compression Spring: Music Wire, Spring Steel
Poppet Spring: Stainless Steel
Bracket: Zinc Plated Steel
Panel Nut: Machined Aluminum
Check Valve Ball: Buna-N (Fluorocarbon Available)
Check Valve Spring: Stainless Steel
Check Valve Cover: Aluminum

Operating Specifications
Gauge Ports: 1/8" NPT
Maximum Inlet Pressure: 250 PSIG
Temperature Range: 0-175°F
Weight: 87 g

Accessories & Kits
Panel Nuts: 13133 (101-3000 Series); 13025 (111/102-3000 Series)
Bracket Kits: 13536 (101-3000 Series); 13534 (111/102-3000 Series)
Service Kits: 13532 (Relieving); 13533 (Non-Relieving)
Constant Bleed Fitting: 13520

Flow Characteristics

Accuracy, repeatability and responsiveness as standard 101-3000 regulators

Ordering Information
101C-1000-2

Pipe Size
1/8"  1
1/4"  2

Dimensions
3 3/8 APPROX.
1 1/32
1 7/16
**REGULATORS: 104-1000 Standard Series**

**Features**
- Machined Aluminum body provides close tolerances for exceptional accuracy, repeatability and responsiveness
- Diaphragm style regulator for minimal hysteresis and greater responsiveness
- Constant bleed fitting available for even greater accuracy
- Relieving and non-relieving versions available
- Gauge port plugs included
- Bracket and panel mounting available
- Available with T-handle, knob or lock and key mechanism
- Preset and tamperproof options available

**Materials of Construction**
- **Body:** Machined Aluminum
- **Bonnet:** Aluminum
- **Adjustment Screw:** Zinc Plated Steel
- **Poppet Valve:** Brass
- **Poppet Spring:** Stainless Steel
- **Poppet Seat:** Brass
- **Diaphragm Assembly:** Buna-N (Fluorocarbon available) and Brass
- **Seals:** Buna-N (Fluorocarbon available)
- **Compression Spring:** Zinc Plated Steel
- **Spring Guide:** Zinc Plated Steel

**Operating Specifications**
- **Gauge Ports:** two 1/4” NPT (Standard)
- **Maximum Inlet Pressure:** 250 PSIG
- **Temperature Rating:** Aluminum Bonnet: 0-175°F
- **Weight:** 430 g

**Accessories & Kits**
- **Panel Nuts:** 11124 (105 & 106)
- **Repair Kit:** (Relieving) 11513; (Relieving –1006) 11959; (Non-Relieving) 11515; (Non-Relieving-1007) 11958
- **Bracket:** 11122 (105 & 106); 11543 (104)
- **Constant Bleed Fitting:** (1/4”) 13557

**Flow Characteristics**

**Dimensions**

**Ordering Information**

**Thread Options**
- Unthreaded Bonnet: 4
- Threaded Bonnet w/ Nuts: 5
- Threaded Bonnet w/ Bracket and Nuts: 6

**Pressure**
- 10-130 Relieving: 00
- 10-130 Non-Relieving: 01
- 5-60 Relieving: 02
- 5-60 Non-Relieving: 03
- 3-30 Relieving: 04
- 3-30 Non-Relieving: 05
- 20-250 Relieving: 06
- 20-250 Non-Relieving: 07

**Gauge Ports**
- Yes: 0
- No: 1

**Pipe Size**
- 1/4” 2
- 3/8” 3
- 1/2” 4
REGULATORS: 104C-1000 Standard Series

Features
- Provides regulated pressure when flowing inlet to outlet
- Built-in check valve allows unrestricted reverse flow
- Allows regulator to be placed between valve and actuator to regulate cylinder ports independently
- Same accuracy, repeatability and responsiveness as standard 104-1000 regulators

Materials of Construction
- Body: Machined Aluminum
- Bonnet: Aluminum
- Adjustment Screw: Zinc Plated Steel
- Poppet Valve: Brass
- Poppet Spring: Stainless Steel
- Poppet Seat: Brass
- Diaphragm Assembly: Buna-N and Brass (Fluorocarbon available)
- Seals: Buna-N (Fluorocarbon available)
- Compression Spring: Zinc Plated Steel
- Check Valve Ball: Buna-N (Fluorocarbon Available)
- Check Valve Spring: Stainless Steel
- Check Valve Cover: Machined Aluminum

Operating Specifications
- Gauge Ports: 1/4” NPT (Standard)
- Maximum Inlet Pressure: 250 PSIG
- Temperature Rating: Aluminum Bonnet: 0-175°F
- Weight: 430 g

Accessories & Kits
- Panel Nuts: 11124 (105 & 106)
- Repair Kit: (Relieving) 11513; (Relieving –1006) 11959; (Non-Relieving) 11515; (Non-Relieving-1007) 11958
- Bracket: 11122 (105 & 106); 11543 (104)
- Constant Bleed Fitting: (1/4") 13557

Flow Characteristics

Flow Rate: SCFM
Primary Pressure: 120 PSIG

Ordering Information

104C-1000-2

Options
- Anodizing: No Anodizing, Blank, Blue A1, Black A2, Clear A3, Green A4, Red A5, Yellow A6, Gold A7, Purple A8
- Seals: Buna-N Blank, Fluorocarbon V
- Attachment Parts: Gauge G, Knob K
- Tamperproof: Tamperproof T (Lock & Key), Preset P, Preset & Tamperproof PT (Lock & Key)

Thread Options
- Unthreaded Bonnet 4
- Threaded bonnet w/ Nuts 5
- Threaded Bonnet w/ Bracket and Nuts 6

Pressure
- 10-130 Relieving 00
- 10-130 Non-Relieving 01
- 5-60 Relieving 02
- 5-60 Non-Relieving 03
- 3-30 Relieving 04
- 3-30 Non-Relieving 05
- 20-250 Relieving 06
- 20-250 Non-Relieving 07

Pipe Size
- 1/4" 2
- 3/8" 3
- 1/2" 4

Dimensions
5 1/4 APPROX.
1 7/16
2 1/4
REGULATORS: 108-1000 Standard Series

Features
- Convenient push to lock knob design
- Acetal bonnet and knob
- Mounting nut comes standard
- Diaphragm design for minimal hysteresis and greater responsiveness
- Black anodizing standard (other colors available)
- Machined aluminum body
- Can be ordered with gauge

Materials of Construction
- Body: Machined Aluminum
- Bonnet: Glass Filled Acetal
- Knob, Adjuster & Mounting Nut: Acetal
- Diaphragm Gasket: Acetal
- Spring Guide: Machined Aluminum
- Seat: Brass
- Poppet Assembly: Brass
- Seals: Buna-N (Fluorocarbon available)
- Compression Spring: Zinc Plated Steel
- Poppet Spring: Stainless Steel

Operating Specifications
- Gauge Ports: 1/4” NPT (Standard)
- Maximum Inlet Pressure: 250 PSIG
- Temperature Rating: Aluminum Bonnet: 0-175°F
- Weight: 522g

Accessories & Kits
- Mounting Bracket: 11430
- Regulator Brackets:
  - 11472  11470
  - 11473  11471

Flow Characteristics
- Flow Rate: SCFM
- Primary Pressure: 120 PSIG
- Regulator Pressure: PSIG

Ordering Information
- 108-1000-4

Options
- Anodizing: Blank, A1, A2, A3, A4, A5, A6, A7, A8
- Pressure Range: 0-150 PSI
  - 0-150 Relieving: 0
  - 0-150 Non-Relieving: 1
  - 0-50 PSI: 2
  - 0-150 Non-Relieving: 3

Attachment Parts
- Gauge: G
- Bracket: B

Seals
- Buna-N (Standard) Blank
- Fluorocarbon V

Pipe Size
- 1/8: -2
- 3/8: -3
- 1/2: -4
REGULATORS: 101-1000 Standard Series

Features
- Machined aluminum body provides close tolerances for exceptional accuracy, repeatability and responsiveness
- Diaphragm style regulator for minimal hysteresis and greater responsiveness
- Constant bleed fitting available for even greater accuracy
- Relieving and non-relieving versions available
- Gauge port plugs included
- Available with T-handle, knob or lock and key mechanism
- Available with 1/2” and 3/4” ports

Materials of Construction
- Body: Machined Aluminum
- Diaphragm Assembly: Buna-N (Fluorocarbon Available) and Brass
- Compression Spring: Spring Steel
- Bonnet: Aluminum
- Poppet Seat: Brass
- Poppet Valve: Brass
- Adjustment Screw: Plated Steel
- T-Handle: Zinc Plated Steel
- Knob: Plastic
- Spring Guide: Zinc Plated Steel

Operating Specifications
- Gauge Ports: 1/4” NPT (Standard)
- Maximum Inlet Pressure: 250 PSIG
- Temperature Rating: Aluminum Bonnet: 0-175°F
- Weight: 522g

Flow Characteristics
- PRIMARY PRESSURE: 120 PSIG
- FLOW RATE: SCFM

Accessories & Kits
- Panel Nuts: 11124 (102 & 103)
- Repair Kit:
  - (Relieving) 11544
  - (Non-Relieving) 11565
  - (Relieving-1006) 11545
  - (Non-Relieving-1007) 11546
- Constant Blend Fitting: 13557

Dimensions
- 5 1/4 APPROX.
- 7/8
- 2 1/2

Ordering Information
101-1000-4

Options
- Anodizing: Blank
  - No Anodizing
  - Blue A1
  - Black A2
  - Clear A3
  - Green A4
  - Red A5
  - Yellow A6
  - Gold A7
  - Purple A8

- Seals: Blank V
  - Buna-N Blank
  - Fluorocarbon V

- Attachment Parts
  - Gauge G
  - Knob K

- Tamperproof
  - Tamperproof T
  - Preset & Tamperproof PT
  - Lock & Key

Pipe Size
- 1/2” 4
- 3/4” 6
**Features**

- Pipe size between 3/4” and 1 – 1/2”
- Machined aluminum body provides close tolerances for exceptional accuracy, repeatability and responsiveness.
- Piston style regulator
- Relieving and non-relieving versions available
- Gauge port plugs included
- Available with T-handle, knob or lock and key mechanism
- Preset and tamperproof options available
- Gauges available
- Constant bleed fitting available for even greater accuracy

**Operating Specifications**

- **Gauge Ports:** two 1/4” NPT (Standard)
- **Maximum Inlet Pressure:** 250 PSIG
- **Temperature Rating:** Aluminum Bonnet: 0-175°F
- **Weight:**
  - (116-4000): 1520 g
  - (116-5000): 1428 g

**Materials of Construction**

- **Body:** Machined Aluminum
- **Piston Assembly:** Machined Aluminum
- **Compression Spring:** Spring Steel
- **Bonnet:** Aluminum
- **Poppet Seat:** Brass
- **Poppet Valve:** Brass
- **Adjustment Screw:** Zinc Plated Steel
- **T-Handle:** Zinc Plated Steel
- **Locking Nut:** Zinc Plated Steel
- **Spring Guide:** Zinc Plated Steel
- **Knob:** Plastic

**Flow Characteristics**

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<th>Primary Pressure: 120 PSIG</th>
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<tr>
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**Accessories & Kits**

- **Panel Nuts:** (w/ 117 only) 11125
- **Repair Kit:** 14520
- **Constant Bleed Fitting:** 13557

**Dimensions**

- **116-4000**
  - 6 3/4 APPROX.
  - 1 7/8
  - 4

- **116-5000**
  - 3 3/4 APPROX.
  - 1 7/8

**Ordering Information**

**116-5000-6**

- **Thread Options**
  - Pipe Mounting (unthreaded) 6
  - Bracket Mounting (threaded) 7

- **Body Size**
  - 1 1/4”, 1 1/2” 4
  - 3/4”, 1” 5

- **Pressure**
  - 10-130 Relieving 00
  - 10-130 Non-Relieving 01
  - 5-60 Relieving 02
  - 5-60 Non-Relieving 03
  - 3-30 Relieving 04
  - 3-30 Non-Relieving 05
  - 20-250 Relieving 06
  - 20-250 Non-Relieving 07

- **Pipe Size**
  - 3/4” 6
  - 1” 8
  - 1 1/4” 10
  - 1 1/2” 12

**Options**

**Anodizing**

- No Anodizing: Blank
- Blue: A1
- Black: A2
- Clear: A3
- Green: A4
- Red: A5
- Yellow: A6
- Gold: A7
- Purple: A8

**Seals**

- Buna-N (Standard): Blank
- Fluorocarbon: V

**Attachment Parts**

- **Gauge:** G
- **Knob:** K
- **Tamperproof**
  - Tamperproof (Lock & Key): T
  - Preset: P
  - Preset & Tamperproof (Lock & Key): PT
REGULATORS: Iso-Sized Manifold Mount Series

Features
- Manifold mount regulators sized to ISO specifications
- Available with polycarbonate or aluminum bonnets
- Adapter plates available for mounting regulator to your manifold or sandwich block
- Manifolds available - call factory for details

Materials of Construction
- Body: Aluminum
- Bonnet: Polycarbonate or Aluminum
- Adjusting Screw: Zinc Plated Steel
- Locking Nut: Zinc Plated Steel
- Spring Guide: Zinc Plated Steel
- Poppet Valve Guide: Brass
- Poppet Valve Spring: Stainless Steel
- Valve Seat: Brass
- Seals: Buna-N (Fluorocarbon available)
- Compression Spring: Spring Steel
- Piston: Aluminum

Operating Specifications

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<td>11/16”</td>
<td>13/16”</td>
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<tr>
<td>Outlet Hole:</td>
<td>(2) 1/4”</td>
<td>(2) 7/16”</td>
<td>(2) 7/16”</td>
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<tr>
<td>Mounting Threads:</td>
<td>10-32 UNF</td>
<td>10-32 UNF</td>
<td>1/4-20 UNF</td>
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<tr>
<td>Maximum Temperature:</td>
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<td>Maximum Inlet Pressure:</td>
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Accessories & Kits

<table>
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<td>Mounting Kits:</td>
<td>11708</td>
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<td>11733</td>
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</tbody>
</table>

Ordering Information

R 01-10 A

Options
- Anodizing
  - No Anodizing Blank
  - Blue A1
  - Black A2
  - Clear A3
  - Green A4
  - Red A5
  - Yellow A6
  - Gold A7
  - Purple A8
- Seals
  - Buna-N Blank
  - Fluorocarbon V
- Attachment Parts
  - Knob K (Aluminum Bonnet only)
- Bonnet
  - Aluminum Bonnet A
  - Polycarbonate Bonnet P (Size 1 & 2 only)
**Flow Characteristics**

**PRIMARY PRESSURE: 120 PSIG**

**AVERAGE Cv = 0.97**

For each 25 PSI primary pressure change, the secondary pressure reacts inversely 1 PSI.

---

**Flow Characteristics**

**PRIMARY PRESSURE: 120 PSIG**

**AVERAGE Cv = 1.52**

For each 50 PSI primary pressure change, the secondary pressure reacts inversely 1 PSI.
SIZE 3

ALUMINUM BONNET

Flow Characteristics

Primary Pressure: 120 PSIG
Average Cv = 3.61

Inverse Pressure Effect
For each 50 PSI primary pressure change, the secondary pressure reacts inversely 1 PSI.
**REGULATORS: 118-3000/1000 Pilot Operated Pressure Series**

---

### Features

- Piston over diaphragm actuation for fast response and compact design
- Large flows with negligible pressure drop
- Two 1/4” NPT gauge ports
- 1/4” NPT pilot port

### Operating Specifications

**Maximum Pressure:** 250 PSI  
**Temperature:** 0-175°F  
**Pilot Port:** 1/8” NPT (3000 Series)  
1/4” NPT (1000 Series)  
**Gauge Port:** 1/8” NPT (3000 Series)  
1/4” NPT (1000 Series)

### Materials of Construction

**Body:** Machined Aluminum  
**Piston:** Machined Aluminum  
**Air Cap:** Machined Aluminum  
**Poppet:**  
3000 Series: Buna-N (Fluorocarbon Available)  
1000 Series: Brass  
**Poppet Seat:**  
3000 Series: Nylon; 1000 Series: Brass  
**Poppet Seal:** Buna-N (Fluorocarbon Available)  
**Diaphragm:** Buna-N (Fluorocarbon Available)

### Accessories & Kits

**3000 Series Repair Kit:**  
13532 (Relieving); 13533 (Non-Relieving)  
**1000 Series Repair Kit:**  
Relieving-11536, Non-Relieving-11535  
**Mounting Nut (3000 Series only):** 13025

### Flow Characteristics

![Flow Characteristics Graphs](chart.png)

**Dimensions**

- **3000**
  - 2 3/16
  - 13/32
  - 1 7/16

- **1000**
  - 3
  - 13/16
  - 2 1/4

**Ordering Information**

- **118-1000-4**

**OPTIONS**

- **Anodizing**
  - No Anodizing: Blank
  - Blue: A1
  - Black: A2
  - Clear: A3
  - Green: A4
  - Red: A5
  - Yellow: A6
  - Gold: A7
  - Purple: A8

- **Seals**
  - Buna-N: Blank
  - Fluorocarbon: V

- **Attachment Parts**
  - Gauge: G

- **Body Size**
  - Standard (1/4”, 3/8”, 1/2”): 1
  - Miniature (1/8”, 1/4”): 3

- **Gauge Ports**
  - Yes: 0
  - No (3000 Only): 1

- **Pipe Size**
  - 1/8” (3000 Series Only): 1
  - 1/4”: 2
  - 3/8”: 3
  - 1/2”: 4

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REGULATORS: 118-5000/4000 Pilot Operated Pressure Series

Features

- Piston over piston actuation for fast response and compact design
- Large flow with negligible pressure drop

Operating Specifications

Maximum Pressure: 250 PSI
Temperature: 175°F
Pilot Port: 1/4” NPT
Gauge Ports: 1/4” NPT

Materials of Construction

Body: Machined Aluminum
Bonnet: Machined Aluminum
Piston: Machined Aluminum
Air Cap: Machined Aluminum
Screws: Zinc Plated Steel
Seals: Buna-N (Fluorocarbon Available)
Poppet Spring: Stainless Steel
Poppet Seat: Brass
Poppet Valve: Brass

Accessories & Kits

Repair Kit: 14516

Flow Characteristics

PRIMARY PRESSURE: 120 PSIG
FLOW RATE: SCFM

Ordering Information

118-4000-6

OPTIONS

Anodizing
No Anodizing: Blank
Blue: A1
Black: A2
Clear: A3
Green: A4
Red: A5
Yellow: A6
Gold: A7
Purple: A8

Seals
Buna-N: Blank
Fluorocarbon: V

Attachment Parts

Gauge: G

Pipe Size

3/4” 6
1” 8
1 1/4” 10
1 1/2” 12

Dimensions

118-5000

5
1 7/8
3 3/4

118-4000

5
1 7/8
4
REGULATORS: 101-0500 Subminiature Series

Features
• Specifically designed for use with low-volume air flows or for dead-end service
• Ideal where space is at a premium
• True instrumentation quality
• Lightweight compact design
• Excellent repeatability
• Available as pilot operated

Operating Specifications
Maximum Pressure: 250 PSI
Temperature: 0-175°F

Materials of Construction
Body: Anodized Aluminum
Bonnet: Anodized Aluminum
Spring: Spring Steel
Adjustment Knob & Screw: Plastic and Plated Steel
Stem: Brass
Tube Fittings: Brass
Seals: Buna-N (Fluorocarbon Available)
Panel Nut: Plated Steel
Spring Guide: Zinc Chromate Plated Steel
Poppet Spring: Stainless Steel
Poppet Valve: Buna-N (Fluorocarbon Available)

Accessories & Kits
Repair Kit: 10502
Panel Nut: 10015
Gasket Mounting Kit: 10514 (VM option only)

Flow Characteristics

Dimensions
2 5/8 APPROX.
7/8 SQ.

Ordering Information
101-0500-01

Adjustment Style
Compression Spring (standard) 01
Pilot Operated 18

Pressure Range
0-100 Relieving 00
0-100 Non-Relieving 01
0-25 Relieving 04
0-25 Non-Relieving 05
1-10 Relieving 08
1-10 Non-Relieving 09

OPTIONS
Anodizing
No Anodizing Blank
Blue A1
Black A2
Clear A3
Green A4
Red A5
Yellow A6
Gold A7
Purple A8

Seals
Buna-N Blank
Fluorocarbon V

Temperproof
Preset P
Preset & Temperproof PT

Connection Type
1/16 ID Tubing Fitting 01
1/8 ID Tubing Fitting 02
Sub-base Mounted VM
REGULATORS: **UL Label Series**

**Features**
- Monnier UL Label Regulators give the assurance of a UL–listed product
- Available in both miniature and standard sizes
- Excellent for use in dry fire sprinkler systems
- Same features as standard regulators (flow, dimensions, etc.)

**Accessories & Kits (104-1000)**
- Panel Nuts: 11124 (105 & 106)
- Repair Kit:
  - (Relieving) 11513
  - (Relieving –1006) 11959;
  - (Non-Relieving) 11515
  - (Non-Relieving-1007) 11958
- Bracket: 11122 (105 & 106); 11543 (104)
- Constant Bleed Fitting: (1/4") 13557

**Accessories & Kits (111-3000)**
- Repair Kit:
  - (Relieving) 13532
  - (Non-Relieving) 13583

**Ordering Information**

**111-3000-1UL**
- **Pressure Range**
  - 10-130 Relieving 00
  - 5-60 Relieving 02
- **Options**
  - Adjustment Knob K
- **Pipe Size**
  - 1/8" 1
  - 1/4" 2

**104-1000-2UL**
- **Pressure Range**
  - 10-130 Relieving 0
  - 5-60 Relieving 2
- **Pipe Size**
  - 1/4" 2
  - 3/8" 3
  - 1/2" 4
REGULATORS: 104-3101 Relief Valves

**Features**
- Available in 1/8” through 1/4” NPT
- Prevent over pressurization of downstream components

**Materials of Construction**
- **Body, Seat:** Machined Aluminum
- **Bonnet:** 104-3100: Polycarbonate  
  114/106-3100: Aluminum
- **Adjustment Screw:**  
  101-3000: Black Oxide Coated Steel  
  111/102-3000: Zinc Plated Steel (102 series)
- **Diaphragm:** Brass, Buna-N (Fluorocarbon available)
- **Seals:** Buna-N (Fluorocarbon available)
- **Bracket:** Zinc Plated Steel
- **Panel Nut:** Machined Aluminum

**Operating Specifications**
- **Gauge Ports:** 1/8” NPT
- **Maximum Inlet Pressure:** 250 PSIG
- **Temperature Range:** 0-175°F

**Flow Characteristics**

**Accessories & Kits**
- **Panel Nuts:**  
  13133 (104-3100 Series)  
  13025 (114/106-3100 Series)
- **Bracket Kits:**  
  13536 (104-3100 Series)  
  13534 (114/106-3100 Series)
- **Service Kits:**  
  13532 (Relieving)

**Flow Rate:** SCFM

**Ordering Information**

**104-3101-2**

- **Options**
  - **Anodizing:** Blank, Blue (A1), Black (A2), Clear (A3), Green (A4), Red (A5), Yellow (A6), Gold (A7), Purple (A8)
  - **Seals:** Buna-N (standard), Fluorocarbon (V)
- **Bonnet:**  
  - Plastic Bonnet: 04  
  - Aluminum Bonnet (Panel Mounting): 06  
  - Aluminum Bonnet (Pipe Mounting): 14
- **Gauge Ports:**  
  - Yes: 0  
  - No: 1
- **Pressure Range:**  
  - 10-130: 1  
  - 5-60: 3  
  - 3-30: 5  
  - 20-250: 7  
  - 1-10: 9
- **Pipe Size:**  
  - 1/8" (1)
  - 1/4" (2)

**Dimensions**

- Flow: 3 1/4
- Flow: 1 7/16 DIA
- Flow: 13/32
- Flow: 2 3/4