PRODUCT CATALOG
Monnier, Inc. has been manufacturing the highest quality filters, regulators and lubricators in Algonac, Michigan since 1929. Our expansive line of air preparation products ensures that any compressed air system has the appropriate level of filtration, a precise and consistent line pressure and, when appropriate, the correct amount of lubricant in the air.

**Particulate Filters**
Available with 20, 10 or 3 micron elements, Monnier’s particulate filters feature depth filtration elements for maximum particulate removal with minimal pressure drop even over extended duty cycles in extremely demanding applications. The centrifugal action created by the whirl disc provides excellent bulk water removal characteristics as well.

**Coalescing Filters**
A weave of borosilicate glass fibers form millions of complex paths within Monnier’s coalescing elements, ensuring that liquid and solid contaminants are removed as the air passes through the cross section of the element.

**Regulators**
Monnier’s regulators provide precise and repeatable pressure to downstream components. The 1/8” through 1/2” assemblies feature a diaphragm design for maximum precision while the larger sizes utilize a piston construction to provide greater flow.

**Lubricators**
The Monnier Micro-Vapor™ lubricators provide a consistent ratio of oil to air to guarantee the long life of downstream pneumatic equipment. Filter/Regulators and FRL Combinations: A wide variety of combinations can be ordered pre assembled to minimize installation time.

**The Strength of the Monnier Product Line**
Monnier machines 97% of the metal components in its air preparation equipment from bar stock, providing enhanced strength, durability and ruggedness. In demanding applications, Monnier’s filters, regulators and lubricators will outlast its competition routinely.

**Anodizing**
All of Monnier’s products can be ordered anodized in any of our eight standard colors. The anodizing process adds a layer of corrosion resistance, surface hardness and enhanced aesthetics.

**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.
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Monnier particulate filters remove solid and liquid contaminants from compressed air. The proper selection and use of compressed air filters will prevent many short and long term issues with your compressed air equipment and systems, and save you substantially in down-time and component replacement costs over the life of your compressed air system.

**Filter Function**

Monnier particulate filters use two operating principles to remove contaminants from compressed air: Centrifugal force via the whirl disc and particulate impaction by our exclusive dense pack elements.

Air enters the inlet port and is forced through the whirl disc. The whirling action forces all liquids and solids against the bowl wall. Gravity causes them to run down below the quiet-zone baffle where they can be drained. The air then flows through the element where the smaller particles are removed and the filtered air passes downstream.

**Exclusive Dense Pack Element Design**

Our unique element design provides multiple points of impaction throughout the cross section of the element. This guarantees that the maximum amount of particulate is captured while also ensuring minimal pressure drop over the long life of the element. 20 Micron filter elements are standard in all particulate filters. Additional options are available, as fine as 3 micron. Please see individual product pages for more details. Care should be taken in selecting the element, ensuring that the inlet air quality and the requirements of the downstream components are considered.

**Optional Components**

- **Drains:** Manual drains are standard. Impulse Drains (“D”) or Float Drains (“F”) available, depending on product family.
- **Anodizing:** Units can be anodized any of 8 colors. (Colors available: blue, black, clear, green, red, yellow, gold, and purple).
- **Pipe Size:** 1/8”-1-1/2” NPT
- **Mounting holes:** Mounting holes are options that can be incorporated into any of the filters.
- **Bowl Options:** Polycarbonate bowls, aluminum bowls, sight levels, and bowl guards available depending on the product family.
Drain Options

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<th>IMPULSE</th>
<th>FLOAT</th>
<th>MANUAL</th>
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<td><img src="image3" alt="Diagram" /></td>
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**Caution**

Bowl guards are recommended on all polycarbonate bowl filters! All bowl guards are made of heavy-duty stainless steel.

**Warning**

Polycarbonate bowls can be damaged and may fail if they are exposed to or come in contact with solvents, strong alkalies, fire resistant and/or synthetic compressor lubricants.

**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.
PARTICULATE FILTERS: 204-3000 Miniature Series

**Features**
- Dense pack element design ensures long element life with minimal pressure drop
- Threaded bowl for ease of maintenance
- 20 micron element standard (10 and 5 micron elements available)
- Manual drain standard, impulse drain available

**Materials of Construction**
- **Head:** Machined Aluminum
- **Bowl:** Polycarbonate or Machined Aluminum
- **Whirl Disc:** Acetal
- **Element Retainer:** Celanese
- **Elements:**
  - Phenolic Impregnated Cellulose (20 & 10 Micron)
  - Polypropylene (5 Micron)
- **Seals:** Buna-N (Fluorocarbon available)
- **Drain:** Manual (Brass and Stainless Steel)

**Operating Specifications**
- **Bowl Capacity:** 1 oz.
- **Maximum Pressure Ratings:**
  - Aluminum Bowl: 250 PSIG
  - Polycarbonate Bowl: 150 PSIG
- **Temperature Ratings:**
  - Aluminum Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Accessories & Kits**
- **Bowl Kit w/ Manual Drain**
  - Polycarbonate: 23520  Aluminum: 23533
- **Bowl Kit w/ Impulse Drain**
  - Polycarbonate: 23521  Aluminum: 23534
- **Elements:**
  - 20 Micron: 23004
  - 10 Micron: 23025
  - 5 Micron: 23040

**Flow Characteristics**

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**Ordering Information**

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<th>204-3000-2</th>
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**OPTIONS**

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

- **Drain**
  - Manual (Standard): Blank
  - Impulse: D

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

- **Mounting Hole**
  - Two 1/4-20 mounting holes on top surface: MH
  - 1/4 NPT mounting hole on side: MS
PARTICULATE FILTERS: 204-2000 Compact Series

Features
- Whirl disc creates centrifugal action for maximum water and particulate removal
- Dense pack element design ensures long life with minimal pressure drop
- Tie-rod construction for maximum stability
- 20 micron element standard (10 and 3 micron elements available)
- Manual drain standard; float drain or impulse drains available

Operating Specifications
Bowl Capacity: 5 oz.
Maximum Pressure Ratings:
- Aluminum Bowl: 250 PSIG
- Polycarbonate Bowl: 150 PSIG
Temperature Ratings:
- Aluminum Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Replacement Parts
Polycarbonate Bowl Kit: 22520
Aluminum Bowl Kit: 22537
Aluminum Bowl Kit w/ Sight Level: 22521-P / 22521-T
Elements:
- 20 Micron: 22205
- 10 Micron: 22033
- 3 Micron: 23032

Materials of Construction
Head: Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Whirl Disc: Acetal
Stud: Unanodized assembly: Plated Steel
Anodized assembly: Brass
Base Nut Assembly: Machined Aluminum
Baffle Plate: Acetal
Element: Phenolic Impregnated Cellulose
Seals: Buna-N (Fluorocarbon available)
Drain:
- Manual: Brass and Plated Steel
- Float: Anodized Aluminum w/ Acetal and Stainless Steel Float mechanism
- Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
Bowl Guard: Stainless Steel
Sight Level: Polycarbonate (Trogamid available)

Flow Characteristics

Ordering Information
204-2000-2

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

Drain
Manual  Blank
Impulse  D
Float  F

Seals
Buna-N  Blank
Fluorocarbon  V

Mounting Hole
Two 1/4-20 mounting holes on top surface  MH
1/4 NPT mounting hole on side  MS

Dimensions

Ordering Information

Accessories

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

204-2000-2

APPROX.
PARTICULATE FILTERS: 205-1000 Standard Series

Features
• Whirl disc creates centrifugal action for maximum water and particulate removal
• High flow with greater bowl capacity (8 oz.)
• Dense pack element design ensures long life with minimal pressure drop
• Threaded components for ease of maintenance
• 20 micron element standard (10 and 3 micron elements available)
• Manual twist drain standard; internal float or external impulse drains available

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Aluminum Bowl: 250 PSIG
- Polycarbonate Bowl: 150 PSIG
Temperature Ratings:
- Aluminum Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Replacement Parts
Polycarbonate Bowl Kit: 21504
Polycarbonate Bowl Kit w/ Float Drain: 21572
Metal Bowl Kit w/ Float Drain: 21583
Metal Bowl Kit: 21580
Metal Bowl Kit (Polycarbonate/ Trogamid): 21581-P / 21581-T
Elements:
- 20 Micron: 21205   - 3 Micron: 21037
- 10 Micron: 21036

Materials of Construction
Head: Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Whirl Disc: Aluminum
Stud: Brass
Element Retainer: Machined Aluminum
Element: Phenolic Impregnated Cellulose
Seals: Buna-N (Fluorocarbon available)
Drain:
- Manual: Plastic
- Float: Acetal and Stainless Steel
- Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
Bowl Guard: Stainless Steel
Sight Level: Polycarbonate (Trogamid available)

Flow Characteristics

Ordering Information
205-1000-2

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

Drain
Manual (Standard)  Blank
Impulse (External)  D
Float (Internal)  F

Seals
Buna-N (Standard)  Blank
Fluorocarbon  V

Mounting Hole
Two 1/4-20 mounting holes on top surface  MH
1/4 NPT mounting hole on side  MS

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

Dimensions

6 11/16 APPROX.

2 1/2

11/16
PARTICULATE FILTERS: **204-1000 Standard Series**

**Features**
- Whirl disc creates centrifugal action for maximum water and particulate removal
- High flow with greater bowl capacity (8 oz.)
- Dense pack element design ensures long life with minimal pressure drop
- Tie-rod construction for maximum stability
- 20 micron element standard (10 and 3 micron elements available)
- Available with manual, float or impulse drain

**Operating Specifications**
- **Bowl Capacity**: 8 oz.
- **Maximum Pressure Ratings**:
  - Aluminum Bowl: 250 PSIG
  - Polycarbonate Bowl: 150 PSIG
- **Temperature Ratings**:
  - Aluminum Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Replacement Parts**
- **Polycarbonate Bowl Kit**: 21557
- **Aluminum Bowl Kit**: 21558
- **Aluminum Bowl Kit w/ Sight Level**: 22559-P / 22559-T
- **Elements**:
  - 20 Micron: 21205
  - 10 Micron: 21036
  - 3 Micron: 21037

**Materials of Construction**
- **Head**: Machined Aluminum
- **Bowl**: Polycarbonate or Machined Aluminum
- **Whirl Disc**: Acetal
- **Stud**: - Unanodized assembly: Plated Steel
  - Anodized assembly: Brass
- **Base Nut Assembly**: Machined Aluminum
- **Baffle Plate**: Acetal
- **Element**: Phenolic Impregnated Cellulose
- **Seals**: Buna-N (Fluorocarbon available)
- **Drain**: - Manual: Plastic
  - Float: Acetal and Stainless Steel
  - Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
- **Bowl Guard**: Stainless Steel
- **Sight Level**: Polycarbonate (Trogamid available)

**Flow Characteristics**

**Dimensions**

**Ordering Information**

**204-1000-2**

**Options**

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

- **Drain**
  - Manual (Standard): Blank
  - Impulse (External): D
  - Float (External): F

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

- **Mounting Hole**
  - Two 1/4-20 mounting holes on top surface: MH
  - 1/4 NPT mounting hole on side: MS

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**Pipe Size**
- 1/4” 2
- 3/8” 3
- 1/2” 4
PARTICULATE FILTERS: 201-5000 Series

**Features**

- Excellent water removal characteristics
- Heavy duty machined aluminum for rugged applications
- Dense pack element design ensures long life with maximum particulate removal
- Now available with internal float drain or external impulse drain
- High flow with large bowl capacity (21 oz.)
- 20 micron elements standard (100, 10 and 3 available as well)

**Operating Specifications**

- **Bowl Capacity:** 21 oz.
- **Maximum Pressure Ratings:**
  - Aluminum Bowl: 250 PSIG
  - Polycarbonate Bowl: 150 PSIG
- **Temperature Ratings:**
  - Aluminum Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Replacement Parts**

- Polycarbonate Bowl Kit: 25557
- Aluminum Bowl Kit: 25558
- Metal Bowl w/ Sight Levels Kit (Polycarbonate/Trogamid): 25559-P / 25559-T
- Elements:
  - 100 Micron: 25086
  - 20 Micron: 25039
  - 10 Micron: 25029
  - 3 Micron: 25028

**Materials of Construction**

- **Head:** Machined Aluminum
- **Bowl:** Polycarbonate or Machined Aluminum
- **Base (Polycarbonate Bowl only):** Aluminum
- **Whirl Disc:** Acetal
- **Stud:** Plated Steel
- **Adaptar, Spacer, Base Nut & Baffle Plate:** Aluminum
- **Seals:** Buna-N (Fluorocarbon available)

**Flow Characteristics**

- Bowls: 201-4000-8, 201-5000-8

**Dimensions**

- 3 3/4
- 7 7/8 APPROX.

**Ordering Information**

- 201-5000-6
**Features**

- Excellent water removal characteristics
- High flow with large bowl capacity
- Heavy duty machined aluminum for rugged applications
- Dense pack element design ensures long life with minimal pressure drop
- Now available with internal float drain or external impulse drain
- 20 micron elements standard (100 and 3 micron elements available as well)

**Operating Specifications**

- **Bowl Capacity:** 32 oz.
- **Maximum Pressure Ratings:**
  - Aluminum Bowl: 250 PSIG
  - Polycarbonate Bowl: 150 PSIG
- **Temperature Ratings:**
  - Aluminum Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Replacement Parts**

- **Polycarbonate Bowl Kit:** 24557
- **Aluminum Bowl Kit:** 24558
- **Metal Bowl w/ Sight Levels Kit (Polycarbonate/Trogamid):** 24559-P / 24559-T
- **Elements:**
  - 100 Micron: 24087
  - 20 Micron: 24015
  - 3 Micron: 24013

**Materials of Construction**

- **Head:** Machined Aluminum
- **Bowl:** Polycarbonate or Machined Aluminum
- **Base (Polycarbonate Bowl only):** Aluminum
- **Whirl Disc:** Acetal
- **Stud:** Plated Steel
- **Adaptor, Spacer, Base Nut & Baffle Plate:** Aluminum
- **Element:** Phenolic Impregnated Cellulose
- **Seals:** Buna-N (Fluorocarbon available)
- **Drain:**
  - Manual: Brass and Plated Steel
  - Float: Acetal and Stainless Steel
  - Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
- **Bowl Guard:** Stainless Steel
- **Sight Level:** Polycarbonate (Trogamid available)

**Flow Characteristics**

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<thead>
<tr>
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<th>Operating Pressure, PSIG</th>
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<td>400</td>
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<td>500</td>
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</tbody>
</table>

**Ordering Information**

**201-4000-8**

**Options**

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

- **Drain**
  - Manual (Standard): Blank
  - Float (Internal): F
  - Impulse (External): D

- **Mounting Hole**
  - Two 1/4-20 mounting holes on top surface: MH
  - 1/4 NPT mounting hole: MS
PARTICULATE FILTERS: 201-7202/8202 High Flow Series

**Features**
- 3.0 Micron element
- High flow with minimal pressure drop
- 1.0 PSI ΔP at rated flow
- Available with manual or float drain

**Materials of Construction**
- **Housing:** Aluminum
- **Stud:** Stainless Steel
- **Pressure Drop Indicator:** Nylon
- **Seals:** Buna-N (Fluorocarbon available)
- **Element:** Aluminum and Stainless Steel
- **Assembly Screws:** Black Oxide Plated Steel
- **Drain (20-404):** Anodized Aluminum, Acetal, and Stainless Steel

**Operating Specifications**
- **Port Sizes:** 1-1/4”, 1-1/2”, 2”
- **Thread Styles:** NPT, BSPT, BSPP
- **Flow Capacity:** 400 & 700 SCFM @ 100 PSI
- **Bowl Types:** Aluminum
- **Maximum Temperature:** 175°F
- **Maximum Pressure:** 200 PSIG
- **Filter Capacity:** 3.0 Micron
- **Differential Pressure:** < 1.0 PSI ΔP at Rated Flow

**Replacement Parts**
- **Bowl O-Ring (400/700):** 27001
- **Float Drain:** 20-404
- **Differential Indicator (400/700):** 27002
- **Manual Drain:** 27003

**Replacement Elements**
- 7202: 27000
- 8202: 28000

**Dimensions**

Metal Bowl, Manual Drain
- A: 7.8
- B: 27.5
- C: 7.8
- D: 3.9

Metal Bowl, Float Drain
- A: 7.8
- B: 32.0
- C: 7.8
- D: 3.9

Metal Bowl, Float Drain w/ Indicator
- A: 7.8
- B: 33.0
- C: 7.8
- D: 3.9

**Ordering Information**

201-7202-10F

**OPTIONS**
- **Drain**
  - Manual (Standard) Blank
  - Float
- **Flow**
  - 400 scfm: 7
  - 700 scfm: 8
- **Pressure Drop Indicator**
  - No PDI: 0
  - Pressure Drop Indicator: 8

**Pipe Size**
- 1-1/4”: 10
- 1-1/2”: 12
- 2”: 16
PARTICULATE FILTERS: 201-9202 Mainline Series

Features
- 3.0 Micron element
- High flow with minimal pressure drop
- 1.0 PSI $\Delta P$ at 1200 scfm
- Manual drain standard; float drain available

Operating Specifications
Port Sizes: 3”
Thread Styles: NPT, BSPT, BSPP
Flow Capacity: 1200 SCFM @ 100 PSI
Bowl Types: Aluminum
Maximum Temperature: 175°F
Maximum Pressure: 200 PSIG
Filter Capacity: 3.0 Micron
Differential Pressure: $< 1.0$ PSI $\Delta P$ at Rated Flow

Materials of Construction
Housing: Aluminum
Stud: Stainless Steel
Pressure Drop Indicator: Nylon
Seals: Buna-N (Fluorocarbon available)
Element: Aluminum and Stainless Steel
Assembly Screws: Black Oxide Plated Steel
Drain (20-404): Anodized Aluminum, Acetal, and Stainless Steel

Replacement Parts
Bowl O-Ring (1200): 29001
Float Drain: 20-404
Replacement Element: 29001
Manual Drain: 29002

Dimensions

Metal Bowl, Manual Drain
A: 8.0 B. 39.5 C. 8.0 D. 4.0

Metal Bowl, Float Drain
A: 8.0 B. 45.0 C. 8.0 D. 4.0

Ordering Information
201-9202-24F

OPTIONS

Drain
Manual (Standard) Blank F
Pressure Drop Indicator
No PDI 0
Pressure Drop Indicator 8
Pipe Size
3” 24
Coalescing filters remove oil, water and fine particulate from compressed air. Contrary to particulate filters, air flows from the inside to the outside of the coalescing element. Along the way, very fine passageways capture liquid droplets and particulate. Gravity pulls the liquid to the bottom of the element where it drips into the sump area for drainage. The particulate matter is embedded into the element material. The Monnier line of coalescing filters are available with two element options — the 0.3 micron elements that are 99.97% efficient in capturing all oil, dirt, and water from the air; and the 0.01 micron elements that are 99.995% efficient.

For the cleanest air possible and least maintenance cost, we recommend a 3 micron element filter be installed directly upstream of all coalescing filters.

**Standard Components**

**Maximum Pressure Ratings:**
- Polycarbonate Bowl: 150 PSI
- Metal Bowls: 250 PSI

**Temperature Ratings:**
- Polycarbonate Bowl: 0-120°F
- Metal Bowl: 0-200°F

**Elements:** 0.3 and 0.01 Micron elements are available depending on the product family

**Optional Components**

**Drains:** Manual drains are standard in all coalescing filters. Impulse Drains ("D") or Float Drains ("F") are available, depending on product family.

**Anodizing:** All aluminum heads and bases have standard green anodizing. Metal bowls can be anodized at an additional cost. Drains are clear anodized as standard, but can be ordered in any of our other colors.

**Bowl Options:** Polycarbonate bowls, aluminum bowls, sight levels, and bowl guards are available depending on the product family.
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.

A pressure drop indicator is optional with each coalescing filter. The pressure drop indicator is highly visible and designed so that the relative amount of pressure drop is easily determined from the height of the yellow column.

Monnier recommends the use of a 3 micron particulate filter upstream of all coalescing filters.

Caution
Bowl guards are recommended on all polycarbonate bowl filters! All bowl guards are made of heavy-duty stainless steel.

Warning
Polycarbonate bowls can be damaged and may fail if they are exposed to or come in contact with solvents, strong alkalies, fire resistant and/or synthetic compressor lubricants.
Features

- Removes liquid and sub-micron solids
- 0.3 Micron element removes 99.97% of all liquid and dirt from air
- 0.01 Micron element removes 99.995% of all liquid and dirt from air
- Available with manual or impulse drain
- Threaded components for ease of maintenance
- Green anodized housing (other colors available)

Operating Specifications

Bowl Capacity: 1 oz.

Maximum Pressure Ratings:
- Aluminum Bowl: 250 PSIG
- Polycarbonate Bowl: 150 PSIG

Temperature Ratings:
- Aluminum Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Materials of Construction

Head: Anodized Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Element Shield: Polycarbonate
Element Retainer: Celonese (Polypropylene available)
Element: Borosilicate Glass Fiber
Seals: Buna-N (Fluorocarbon available)
Drain:
- Manual: Nickel Plated Brass
- Impulse: Machined Aluminum and Brass
Bowl Guard: Stainless Steel

Accessories & Kits

Polycarbonate Bowl Kit w/ Standard Drain: 23520
Aluminum Bowl Kit w/ Manual Drain: 23533
Polycarbonate Bowl Kit w/ Impulse Drain: 23521
Aluminum Bowl Kit w/ Impulse Drain: 23534
Elements:
0.3 Micron: 23543
0.01 Micron: 23592

Flow Characteristics

Flow Rate: SCFM
Inlet Pressure: PSI

Ordering Information

204-3009-2

OPTIONS

Anodizing
- Green (Standard) Blank
- Blue A1
- Black A2
- Clear A3
- Red A5
- Yellow A6
- Gold A7
- Purple A8

Drain
- Impulse D

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

Mounting Hole
- Two 1/4-20 mounting holes on top surface MH
- 1/4 NPT mounting hole on side MS

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

Dimensions

FLOW

1 1/2

13/32

3 7/8 APPROX.
**Features**

- Removes liquid and sub-micron solids
- 0.3 Micron element removes 99.97% of all moisture and dirt from air
- Available with manual, float or impulse drain
- Pressure drop indicator available to show when element needs to be changed
- Tie-Rod construction for maximum stability
- Green anodized housing (other colors available)

**Materials of Construction**

- **Head:** Anodized Machined Aluminum
- **Bowl:** Polycarbonate or Machined Aluminum
- **Element Retainer:** Machined Aluminum
- **Element:** Borosilicate Glass Fiber with Urethane Endcaps
- **Seals:** Buna-N (Fluorocarbon available)
- **Drain:**
  - Manual: Brass and Plated Steel
  - Float: Anodized Aluminum housing w/ Acetal and Stainless Steel Float Mechanism
  - Impulse: Machined Aluminum, Brass, Buna-N (Fluorocarbon available)
- **Bowl Guard:** Stainless Steel
- **Sight Level:** Polycarbonate (trogamid available)
- **Pressure Drop Indicator:** Polyethylene, Phosphate Coated Steel Retaining Ring, Polycarbonate Dome (Trogamid Available)
- **Stud:** Brass

**Operating Specifications**

- **Bowl Capacity:** 5 oz.
- **Maximum Pressure Ratings:**
  - Aluminum Bowl: 250 PSIG
  - Polycarbonate Bowl: 150 PSIG
- **Temperature Ratings:**
  - Aluminum Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Accessories & Kits**

- **Polycarbonate Bowl Kit:** 22520
- **Aluminum Bowl Kit:** 22537
- **Aluminum Bowl Kit w/ Sight Level:** 21559-P / 21559-T
- **Elements:** 0.3 Micron: 21545
- **Pressure Drop Indicator Assembly:** 21542
- **Pressure Drop Indicator Seal Kit:** 21543

**Flow Characteristics**

**Dimensions**

- 2 5/8
- 5/8 APPROX.

**Ordering Information**

- **204-2009-2**

**Options**

- **Anodizing**
  - Green (Standard) Blank
  - Blue A1
  - Black A2
  - Clear A3
  - Red A5
  - Yellow A6
  - Gold A7
  - Purple A8

- **Drain**
  - Impulse D
  - Float F

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

- **Mounting Hole**
  - Two 1/4-20 mounting holes on top surface MH
  - 1/4 NPT mounting hole on side MS

- **Sight Levels**
  - Trogamid T
COALESCING FILTERS: 205-1009 Standard Series

**Features**
- Removes liquid and sub-micron solids
- 0.3 Micron element removes 99.97% of dirt and oil from air
- 0.01 Micron element removes 99.995% of dirt and oil from air
- Available with manual, internal float, or external impulse drain
- Pressure drop indicators available to show when element needs to be changed
- Threaded bowl for ease of maintenance
- Standard green anodized filter housing (other colors available)

**Operating Specifications**

- **Bowl Capacity:** 8 oz.
- **Maximum Pressure Ratings:**
  - Aluminum Bowl: 250 PSIG
  - Polycarbonate Bowl: 150 PSIG
- **Temperature Ratings:**
  - Aluminum Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Materials of Construction**

- **Head:** Anodized Machined Aluminum
- **Bowl:** Polycarbonate or Anodized Machined Aluminum
- **Stud:** Brass
- **Element:** Borosilicate Glass Fiber
- **Element Retainer:** Anodized Aluminum
- **Seals:** Buna-N (Anodized Aluminum)
- **Drain:**
  - Manual: Plastic
  - Float: Acetal and Stainless Steel
  - Impulse: Machined Aluminum, Brass, Buna-N (Fluorocarbon available)
- **Bowl Guard:** Stainless Steel
- **Sight Level:** Polycarbonate (Trogamid available)
- **Pressure Drop Indicator:** Polyethylene, Phosphate Coated Steel Retaining Ring, Polycarbonate Dome (Trogamid Available)

**Accessories & Kits**

- **Polycarbonate Bowl Kit:** 21504
- **Polycarbonate Bowl Kit w/ Float Drain:** 21572
- **Metal Bowl Kit:** 21580
- **Metal Bowl Kit w/ Sight Level:** 21581-P / 21581-T
- **Pressure Drop Indicator Assembly:** 21542
- **Elements:**
  - 0.3 Micron: 21720
  - 0.01 Micron: 21762

**Flow Characteristics**

**Flow Rate vs. Pressure Drop:**

INLET PRESSURE: PSI

FLOW RATE: SCFM

**Ordering Information**

**205-1009-4**

**Bowl Type**

- Polycarbonate: 0
- Polycarbonate w/ Bowl Guard: 1
- Metal: 2
- Metal w/ Sight Level: 3

**Pressure Drop Indicator**

- Without PDI: 0
- With PDI: 8

**Elements**

- 0.3 Micron: 9
- 0.01 Micron: 8

**Pipe Size**

- 1/4": 2
- 3/8": 3
- 1/2": 4

**Above Options**

- **Anodizing**
  - Blank
  - Green (Standard)
  - Blue
  - Black
  - Clear
  - Red
  - Yellow
  - Gold
  - Purple

- **Drain**
  - Blank
  - Manual
  - Impulse
  - Float

- **Seals**
  - Blank
  - Buna-N (Standard)
  - Fluorocarbon (Viton)

- **Mounting Hole**
  - Blank
  - Two 1/4-20 mounting holes on top surface
  - 1/4 NPT mounting hole on side

- **Sight Levels**
  - Trogamid

**Dimensions**

6 11/16 APPROX.
COALESCING FILTERS: 204-1009 Standard Series

**Features**
- Removes liquid and sub-micron solids
- 0.3 Micron element removes 99.97% of dirt and oil from air
- 0.01 Micron element removes 99.995% of dirt and oil from air
- Available with manual, float or impulse drain
- Pressure drop indicator available to show when element needs to be changed
- Tie-Rod construction for maximum stability
- Standard green anodized filter housing (other colors available)

**Operating Specifications**
- **Bowl Capacity:** 8 oz.
- **Maximum Pressure Ratings:**
  - Aluminum Bowl: 250 PSIG
  - Polycarbonate Bowl: 150 PSIG
- **Temperature Ratings:**
  - Aluminum Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Materials of Construction**
- **Head:** Anodized Machined Aluminum
- **Bowl:** Polycarbonate or Anodized Machined Aluminum
- **Stud:** Brass
- **Element:** Borosilicate Glass Fiber with Urethane Endcaps
- **Element Retainer:** Anodized Aluminum
- **Retainer Nut:** Nylon
- **Seals:** Buna-N (Fluorocarbon available)
- **Base Nut Assembly:** Anodized Machined Aluminum
- **Drain:**
  - Manual: Brass
  - Float: Anodized Aluminum housing w/ Acetal and Stainless Steel Float Mechanism
  - Impulse: Machined Aluminum, Brass, Buna-N (Fluorocarbon available)
- **Bowl Guard:** Stainless Steel
- **Sight Level:** Polycarbonate (Trogamid available)
- **Pressure Drop Indicator:** Polyethylene, Phosphate Coated Steel Retaining Ring, Polycarbonate Dome (Trogamid Available)

**Accessories & Kits**
- **Polycarbonate Bowl Kit:** 21557
- **Aluminum Bowl:** 21558
- **Aluminum Bowl Kit w/ Sight Level (Polycarbonate/Trogamid):** 21559-P / 21559-T
- **Pressure Drop Indicator Assembly:** 21542
- **Elements:**
  - 0.3 Micron: 21545
  - 0.01 Micron: 21751

**Flow Characteristics**

**Dimensions**

**Ordering Information**

**Options**
- **Anodizing**
  - Green (Standard): Blank
  - Blue: A1
  - Black: A2
  - Clear: A3
  - Red: A5
  - Yellow: A6
  - Gold: A7
  - Purple: A8
- **Drain**
  - Manual: Blank
  - Impulse: D
  - Float: F
- **Seals**
  - Buna-N (Standard): Blank
  - Fluorocarbon (Viton): V
- **Mounting Hole**
  - Two 1/4-20 mounting holes on top surface: MH
  - 1/4 NPT mounting holes on side: MS
- **Sight Levels**
  - Trogamid: T
Features

- Removes liquid and sub-micron solids
- 0.3 Micron element removes 99.97% of all moisture and dirt from air
- 0.01 Micron element removes 99.995% of moisture, oil, and dirt from air
- Available with manual, float or impulse drain
- Pressure Drop Indicator available to show when element needs to be changed
- Tie-Rod construction
- Green anodized filter housing standard (other colors available)

Operating Specifications

Bowl Capacity: 32 oz.
Maximum Pressure Ratings:
- Aluminum Bowl: 250 PSIG
- Polycarbonate Bowl: 150 PSIG
Temperature Ratings:
- Aluminum Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Materials of Construction

Head: Anodized Machined Aluminum
Bowl: Polycarbonate or Anodized Machined Aluminum
Base (Polycarbonate Bowl Only): Anodized Aluminum
Stack: Anodized Aluminum Stud: Brass
Element: Borosilicate Glass Fiber with Urethane End-caps
Element Retainer: Anodized Machined Aluminum
Element Retainer Nut: Nylon
Base Nut: Anodized Machined Aluminum
Seals: Buna-N (Fluorocarbon available)
Drain: - Manual: Brass and Plated Steel
- Float: Anodized Aluminum housing w/ Acetal and Stainless Steel Float Mechanism
- Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
Bowl Guard: Stainless Steel
Sight Level: Polycarbonate (Trogamid available)
Pressure Drop Indicator: Polyethylene, Phosphate Coated Steel Retaining Ring, Polycarbonate Dome (Trogamid Available)

Accessories & Kits

Poly carbonate Bowl Kit: 24557 24422
Aluminum Bowl Kit: 24558 24421
Aluminum Bowl Kit w/ Polycarbonate Sight Level: 24559-P 24423-P
Aluminum Bowl Kit w/ Trogamid Sight Level: 24559-T 24423-T
Pressure Drop Indicator Assembly: 21542
Elements: 0.3 Micron: 24547 0.01 Micron: 24751

Flow Characteristics

Flow Rate: SCFM
Inlet Pressure: PSI

Dimensions

Ordering Information

204-4009-6

Options

Anodizing
Green (Standard) Blank
Blue A1
Black A2
Clear A3
Red A5
Yellow A6
Gold A7
Purple A8

Drain
Impulse (External) D
Float (Internal) F

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

Mounting Hole
Two 1/4-20 mounting holes on top surface MH
1/4 NPT mounting hole on side MS

Sight Levels
Trogamid T
COALESCING FILTERS: 204-6209 Heavy Duty Series

Features
- Removes liquid and sub-micron solids
- 0.3 Micron element removes 99.97% of all oil and dirt from air
- 0.01 Micron element removes 99.995% of all oil and dirt from air
- Available with manual, float or impulse drain
- Pressure drop indicator available to show when element needs to be changed
- High flow with 64 oz. bowl capacity
- Standard green anodized filter housing (other colors available)

Operating Specifications
Bowl Capacity: 64 oz.
Maximum Pressure Ratings:
- Aluminum Bowl: 250 PSIG
- Polycarbonate Bowl: 150 PSIG
Temperature Ratings:
- Aluminum Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Materials of Construction
Head, Bowl, Base & Stack: Anodized Machined Aluminum
Stud: Brass
Element: Borosilicate Glass Fiber with Urethane Endcaps
Element Retainer: Anodized Machined Aluminum
Element Retainer Nut: Nylon
Base Nut: Anodized Machined Aluminum
Seals: Buna-N (Fluorocarbon available)
Drain:
- Manual: Brass and Plated Steel
- Float: Acetal and Stainless Steel
- Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon available)
Sight Level: Polycarbonate (trogamid available)
Pressure Drop Indicator: Polyethylene, Phosphate Coated Steel Retaining Ring, Polycarbonate Dome (Trogamid Available)

Accessories & Kits
Seal Kit: 26565
Sight Levels: 21538 (P) 21537 (T)
Pressure Drop Indicator Assembly: 21542
Pressure Drop Indicator Seal Kit: 21543
Elements: 0.3 Micron: 26550 0.01 Micron: 26751
Metal Bowl Kit: 26558
Metal Bowl Kit w/ Sight Levels: 26559-P / 26559-T

Flow Characteristics

Flow Rate: SCFM
Inlet Pressure: PSI

Dimensions

Ordering Information
204-6209-8

OPTIONS
Anodizing
Green (Standard) Blank A1
Blue A2
Black A3
Clear A4
Red A5
Yellow A6
Gold A7
Purple A8

Drain
Impulse (External) D
Float (Internal) F

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

Mounting Hole
Two 1/4-20 mounting holes on top surface MH
1/4 NPT mounting hole on side MS

Sight Levels
Trogamid T

Pipe Size
1" 8
1 1/4" 10
1 1/2" 12

Pressure Drop Indicator
Without PDI 0
With PDI 8

Elements
0.3 micron 9
0.01 micron 8

Material of Construction

Head, Bowl, Base & Stack: Anodized Machined Aluminum
Stud: Brass
Element: Borosilicate Glass Fiber with Urethane Endcaps
Element Retainer: Anodized Machined Aluminum
Element Retainer Nut: Nylon
Base Nut: Anodized Machined Aluminum
Seals: Buna-N (Fluorocarbon available)
Drain:
- Manual: Brass and Plated Steel
- Float: Acetal and Stainless Steel
- Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon available)
Sight Level: Polycarbonate (trogamid available)
Pressure Drop Indicator: Polyethylene, Phosphate Coated Steel Retaining Ring, Polycarbonate Dome (Trogamid Available)

Accessories & Kits
Seal Kit: 26565
Sight Levels: 21538 (P) 21537 (T)
Pressure Drop Indicator Assembly: 21542
Pressure Drop Indicator Seal Kit: 21543
Elements: 0.3 Micron: 26550 0.01 Micron: 26751
Metal Bowl Kit: 26558
Metal Bowl Kit w/ Sight Levels: 26559-P / 26559-T

Flow Characteristics
Features
• High flow with minimal pressure drop
• 1.5PSI ΔP at rated flow
• Available with manual or float drain

Operating Specifications
Port Sizes: 1-1/4”, 1-1/2”, 2”
Thread Styles: NPT, BSPT, BSPP
Flow Capacity: 400 & 700 SCFM @ 100 PSI
Maximum Temperature: 175° F
Maximum Pressure: 200 PSIG
Filter Capacity: 0.01 Micron
Differential Pressure: <1.5 PSI ΔP at Rated Flow

Materials of Construction
Housing: Aluminum
Stud: Stainless Steel
Indicator: Nylon
Seals: Buna-N
Elements: Aluminum and Stainless Steel
Assembly Screws: Black Oxide Plated Steel
Drain (20-404): Anodized Aluminum, Acetal, and Stainless Steel

Accessories & Kits
Bowl O-Ring (400/700): 27001
Float Drain: 20-404
Differential Indicator (400/700): 27002
Manual Drain: 27003

Replacement Elements:
7208: 27004
8208: 28001

Dimensions
Metal Bowl, Manual Drain
A: 7.8 B: 27.5 C: 7.8 D: 3.9

Metal Bowl, Float Drain
A: 7.8 B: 32.0 C: 7.8 D: 3.9

Metal Bowl, Float Drain w/ Indicator
A: 7.8 B: 33.0 C: 7.8 D: 3.9

Ordering Information
201-7208-10F
Flow
400 scfm 7
700 scfm 8
Pressure Drop Indicator
Without PDI 0
With PDI 8
Elements
0.3 micron 9
0.01 micron 8
Pipe Size
1 1/4” 10
1 1/2” 12
2” 16
COALESCING FILTERS: 201-9208 Series

Features
• High flow with minimal pressure drop
• 1.5 PSI ΔP at 1200 scfm
• Available with manual or float drain

Operating Specifications
Port Sizes: 3”
Thread Styles: NPT, BSPT, BSPP
Flow Capacity: 1200 SCFM @ 100 PSI
Maximum Temperature: 175° F
Maximum Pressure: 200 PSIG
Filter Capacity: 0.01 Micron
Differential Pressure: 1.5 PSI ΔP at Rated Flow

Materials of Construction
Housing: Aluminum
Stud: Stainless Steel
Indicator: Nylon
Seals: Buna-N
Elements: Aluminum and Stainless Steel
Assembly Screws: Black Oxide Plated Steel
Drain (20-404): Anodized Aluminum, Acetal and Stainless Steel

Accessories & Kits
Bowl O-Ring (1200): 24001
Float Drain: 20-404
Manual Drain: 29002
Replacement Element: 29000

Dimensions

Ordering Information
201-9208-24F

Pipe Size
3” 24

Pressure Drop Indicator
Without PDI 0
With PDI 8

Drain
Manual Blank
Float F

Metal Bowl, Manual Drain
A: 8.0 B: 39.5 C: 8.0 D: 4.0

Metal Bowl, Float Drain
A: 8.0 B: 45.0 C: 8.0 D: 4.0
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
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.

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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
Features

- 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

Flow Rate: SCFM
Primary Pressure: 120 PSIG

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 -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 (Plastic Tie w/ Poly Bonnet) TS
Tamperproof (Set screw w/ Alum Bonnet) TS
Preset P
Preset & Tamperproof PT
Preset & Tamperproof PTS

Dimensions

Flow Rate
Primary Pressure: 120 PSIG
Regulator Pressure: PSIG

Flow Rate: SCFM

Flow Characteristics

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

Operating Specifications

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

Flow Characteristics

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

Operating Specifications

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

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

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

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
- PRIMARY PRESSURE: 120 PSIG
- FLOW RATE: SCFM

Dimensions
- 2 25/32
- 3/8 –24 UNF
- 2A THREAD

Ordering Information
- 101-3100-M
- OPTIONS
  - Anodizing
    - No Anodizing: Blank
    - Blue: A1
    - Black: A2
    - Clear: A3
    - Green: A4
    - Red: A5
    - Yellow: A6
    - Gold: A7
    - Purple: A8

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

- 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
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

<table>
<thead>
<tr>
<th>PRIMARY PRESSURE: 120 PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGULATOR PRESSURE: PSIG</td>
</tr>
<tr>
<td>FLOW RATE: SCFM</td>
</tr>
<tr>
<td>101-3000-1</td>
</tr>
<tr>
<td>101-3000-2</td>
</tr>
</tbody>
</table>

Ordering Information

**101C-1000-2**

<table>
<thead>
<tr>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anodizing</strong></td>
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<tr>
<td>No Anodizing:     Blank</td>
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<tr>
<td>Blue:              A1</td>
</tr>
<tr>
<td>Black:              A2</td>
</tr>
<tr>
<td>Clear:              A3</td>
</tr>
<tr>
<td>Green:              A4</td>
</tr>
<tr>
<td>Red:                A5</td>
</tr>
<tr>
<td>Yellow:             A6</td>
</tr>
<tr>
<td>Gold:               A7</td>
</tr>
<tr>
<td>Purple:             A8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Seals</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Buna-N:          Blank</td>
</tr>
<tr>
<td>Fluorocarbon:     V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Attachment Parts</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket Kit:        B</td>
</tr>
<tr>
<td>Gauge:              G</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Tamperproof</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tamperproof:     T</td>
</tr>
<tr>
<td>[Plastic Tie w/ Poly Bonnet]</td>
</tr>
<tr>
<td>Tamperproof:     TS</td>
</tr>
<tr>
<td>[Set screw w/ Alum Bonnet]</td>
</tr>
<tr>
<td>Preset:          P</td>
</tr>
<tr>
<td>Preset &amp; Tamperproof:   PT</td>
</tr>
<tr>
<td>[Plastic Tie]</td>
</tr>
<tr>
<td>Preset &amp; Tamperproof: PTS</td>
</tr>
<tr>
<td>[Set Screw]</td>
</tr>
</tbody>
</table>

Dimensions

- **Flow Characteristics**
- **Ordering Information**
- **Materials of Construction**
- **Operating Specifications**
- **Accessories & Kits**
- **Features**

**Flow Characteristics**

**Ordering Information**

**Materials of Construction**

**Operating Specifications**

**Accessories & Kits**

**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

- **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

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

- **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

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

- **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
  - [Plastic Tie w/ Poly Bonnet]
  - Tamperproof: TS
  - [Set screw w/ Alum Bonnet]
  - Preset: P
  - Preset & Tamperproof: PT
  - [Plastic Tie]
  - Preset & Tamperproof: PTS
  - [Set Screw]

- **Dimensions**
  - Flow Characteristics
  - Operating Specifications
  - Accessories & Kits
  - Features

- **Flow Characteristics**
  - **Ordering Information**
  - **Materials of Construction**
  - **Operating Specifications**
  - **Accessories & Kits**
  - **Features**

- **Flow Characteristics**
  - **Ordering Information**
  - **Materials of Construction**
  - **Operating Specifications**
  - **Accessories & Kits**
  - **Features**

- **Flow Characteristics**
  - **Ordering Information**
  - **Materials of Construction**
  - **Operating Specifications**
  - **Accessories & Kits**
  - **Features**
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

Flow Rate: SCFM
Primary Pressure: 120 PSIG

Ordering Information

104-1000-2

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
Preset P
Preset & Tamperproof PT

Pipe Size
1/4” 2
3/8” 3
1/2” 4

Dimensions

4 5/8 APPROX.
13/16
2 1/4
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

### Flow Characteristics

![Graph showing flow characteristics](chart.png)

### Ordering Information

**104C-1000-2**

<table>
<thead>
<tr>
<th>Options</th>
<th>Code</th>
</tr>
</thead>
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<td></td>
</tr>
<tr>
<td>No Anodizing</td>
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</tr>
<tr>
<td>Blue</td>
<td>A1</td>
</tr>
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<td>A7</td>
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<td>Purple</td>
<td>A8</td>
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<tr>
<td><strong>Seals</strong></td>
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<td>Buna-N</td>
<td>Blank</td>
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<tr>
<td>Fluorocarbon</td>
<td>V</td>
</tr>
<tr>
<td><strong>Attachment Parts</strong></td>
<td></td>
</tr>
<tr>
<td>Gauge</td>
<td>G</td>
</tr>
<tr>
<td>Knob</td>
<td>K</td>
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<tr>
<td><strong>Tamperproof</strong></td>
<td></td>
</tr>
<tr>
<td>Tamperproof (Lock &amp; Key)</td>
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</tr>
<tr>
<td>Preset</td>
<td>P</td>
</tr>
<tr>
<td>Preset &amp; Tamperproof (Lock &amp; Key)</td>
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</tr>
</tbody>
</table>

### Dimensions

- **Relieving**
  - 5 1/4 APPROX.
  - 1 7/16

- **Non-Relieving**
  - 2 1/4

### 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

### Pipe Size

- 1/4”  2
- 3/8”  3
- 1/2”  4

### Pressure

- 10-130 Relieving 00
- 10-130 Non-Relieving 01
- 5-60 Relieving 02
- 5-60 Non-Relieving 03
- 2-30 Relieving 04
- 2-30 Non-Relieving 05
- 20-250 Relieving 06
- 20-250 Non-Relieving 07
### 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 KITS**
  - **0-50 PSI**
    - **0-150 PSI**
    - **Relieving (1/4 & 3/8):** 11472 11470
    - **Non-Relieving (1/4 & 3/8):** 11473 11471
  - **REGULATOR KITS**
    - **0-50 PSI**
    - **0-150 PSI**
    - **Relieving (1/2):** 11482 11480
    - **Non-Relieving (1/2):** 11483 11481

### Flow Characteristics

#### PRIMARY PRESSURE: 120 PSIG

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<thead>
<tr>
<th>FLOW RATE: SCFM</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
<th>90</th>
<th>100</th>
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<tbody>
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<td>80</td>
<td>68</td>
<td>56</td>
<td>44</td>
<td>32</td>
<td>20</td>
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<tr>
<td>108-1000-4</td>
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### Ordering Information

**108-1000-4**

#### OPTIONS

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<tbody>
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<td>0-150 Relieving</td>
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<tr>
<td>0-150 Non-Relieving</td>
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<tr>
<td>0-50 Relieving</td>
<td>2</td>
</tr>
<tr>
<td>0-100 Non-Relieving</td>
<td>3</td>
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</table>

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

- **Attachment Parts**
  - Gauge: G
  - Bracket: B

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

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>1/4</th>
<th>3/8</th>
<th>1/2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPTIONS</strong></td>
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<td></td>
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</tr>
<tr>
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<td>-2</td>
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<td></td>
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<tr>
<td>0-150 Non-Relieving</td>
<td>-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-50 Relieving</td>
<td>-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

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

Flow Characteristics

- **Primary Pressure**: 120 PSIG
- **Regulator Pressure**: PSIG

Ordering Information

**101-1000-4**

- **Bonnet**
  - Unthreaded Bonnet: 1
  - Threaded Bonnet w/ Nuts: 2
  - Threaded Bonnet w/ Bracket and Nuts: 3

- **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
  - 1-10 Relieving: 08
  - 1-10 Non-Relieving: 09

- **Pipe Size**
  - 1/2": 4
  - 3/4": 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
    - Knob: K
    - Tamperproof: T
    - Preset: P
    - Preset & Tamperproof: PT
    - (Lock & Key): (Lock & Key)
REGULATORS: **116-4000/5000** Heavy Duty Series

### 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

### 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

### 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

### 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
  - 1 7/8

### Ordering Information

<table>
<thead>
<tr>
<th><strong>116-5000-6</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thread Options</strong></td>
</tr>
<tr>
<td>Pipe Mounting (unthreaded) 6</td>
</tr>
<tr>
<td>Bracket Mounting (threaded) 7</td>
</tr>
<tr>
<td><strong>Body Size</strong></td>
</tr>
<tr>
<td>1 1/4”, 1 1/2” 4</td>
</tr>
<tr>
<td>3/4”, 1” 5</td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
</tr>
<tr>
<td>10-130 Relieving 00</td>
</tr>
<tr>
<td>10-130 Non-Relieving 01</td>
</tr>
<tr>
<td>5-60 Relieving 02</td>
</tr>
<tr>
<td>5-60 Non-Relieving 03</td>
</tr>
<tr>
<td>3-30 Relieving 04</td>
</tr>
<tr>
<td>3-30 Non-Relieving 05</td>
</tr>
<tr>
<td>20-250 Relieving 06</td>
</tr>
<tr>
<td>20-250 Non-Relieving 07</td>
</tr>
<tr>
<td><strong>Pipe Size</strong></td>
</tr>
<tr>
<td>3/4” 6</td>
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<tr>
<td>1” 6</td>
</tr>
<tr>
<td>1 1/4” 10</td>
</tr>
<tr>
<td>1 1/2” 12</td>
</tr>
</tbody>
</table>

### Flow Characteristics

#### Flow Rate: SCFM

![Flow Characteristics Graph](image)

#### Primary Pressure: 120 PSIG

![Primary Pressure Graph](image)

### 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: T (Lock & Key)
  - Preset: P
  - Preset & Tamperproof: PT (Lock & Key)
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
- 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

<table>
<thead>
<tr>
<th>SIZE</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<tr>
<td>Inlet Hole</td>
<td>3/8”</td>
<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>
<td>175°F</td>
<td>175°F</td>
<td>175°F</td>
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<tr>
<td>Maximum Inlet Pressure</td>
<td>250 PSI</td>
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Accessories & Kits

<table>
<thead>
<tr>
<th>SIZE</th>
<th>1</th>
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<tbody>
<tr>
<td>Repair Kit</td>
<td>11716</td>
<td>11716</td>
<td>11736</td>
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<tr>
<td>Mounting Kits</td>
<td>11708</td>
<td>11718</td>
<td>11733</td>
</tr>
</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=1.52**

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

**SIZE 1**

**SIZE 2**

---

**INVERSE PRESSURE EFFECT**

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

---

**ADAPTOR PLATE KIT**

**SIZE 1**

Order Part Number 11708

**SIZE 2**

Order Part Number 11718

---

**PLASTIC BONNET**

**ALUMINUM BONNET**

---

**PRIORITY PORT**

**SECONDARY PORT**
SIZE 3

ALUMINUM BONNET

Adaptor Plate Kit

Order Part Number 11733

Flow Characteristics

PRIMARY PRESSURE: 120 PSIG

AVERAGE C_v = 3.61

FLOW RATE: SCFM

INVERSE PRESSURE EFFECT
For each 50 PSI primary pressure change, the secondary pressure reacts inversely 1 PSI.
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)

Flow Characteristics

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

Dimensions

Ordering Information

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
1/8” (3000 Series Only) 1
1/4” 2
3/8” 3
1/2” 4

Body Size
Standard (1/4", 3/8", 1/2") 1
Miniature (1/8", 1/4") 3

Gauge Ports
Yes 0
No (3000 Only) 1
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

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

Dimensions

Ordering Information
118-4000-6

FLOW RATE: SCFM
PRIMARY PRESSURE: 120 PSIG
REGULATOR PRESSURE: PSIG

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

Dimensions
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.
2 1/16 APPROX.
7/8 SQ.

Ordering Information
101-0500-01

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

Tamperproof
Preset  P
Preset & Tamperproof  PT

Connection Type
1/16 ID Tubing Fitting  01
1/8 ID Tubing Fitting  02
Sub-base Mounted  VM
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
(Non-Relieving) 11515
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

<table>
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<th>Pressure Range</th>
<th>Options</th>
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<tbody>
<tr>
<td>10-130 Relieving 00</td>
<td>Adjustment Knob K</td>
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<tr>
<td>5-60 Relieving 02</td>
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</table>

<table>
<thead>
<tr>
<th>Pipe Size</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>1</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>2</td>
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104-1000-2UL

<table>
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<tr>
<th>Pressure Range</th>
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</thead>
<tbody>
<tr>
<td>10-130 Relieving 0</td>
<td></td>
</tr>
<tr>
<td>5-60 Relieving 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>3</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>4</td>
</tr>
</tbody>
</table>

Dimensions

Relieving

4 17/32 APPROX.

Bracket:
11122 (105 & 106); 11543 (104)

Constant Bleed Fitting:
(1/4") 13557

Panel Nuts:
11124 (105 & 106)

Repair Kit:
(Relieving) 11513
(Non-Relieving) 11515
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

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 Characteristics

Dimensions

Ordering Information
104-3101-2

OPTIONS

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

Seals
Buna-N (standard)  Blank
Fluorocarbon  V

Pipe Size
1/8”  1
1/4”  2

Flow Rate: SCFM
"Open" set point. 1 bubble per second

Pressures Range
10-130  1
5-60  3
3-30  5
20-250  7
1-10  9

Gauge Ports
Yes  0
No  1

Bonnet
Plastic Bonnet  04
Aluminum Bonnet (Panel Mounting)  06
Aluminum Bonnet (Pipe Mounting)  14

39
Many pneumatic components require oil lubrication for proper operation and long service life. The proper use of a lubricator can greatly extend the life of expensive downstream pneumatic machinery. Monnier lubricators are used to maintain the proper ratio of oil and air in order to maximize the performance of pneumatic machinery.

Monnier lubricators are available in pipe sizes between 1/8 and 1 1/2” NPT and bowls between 1 and 32 ounces.

Optional Components

Tamperproof Capability: Each Monnier lubricator is supplied with a 3/16” diameter ball that may be pressed into the top of the sight dome adjustment area after the oil rate is set. This prevents any further adjustment by unauthorized personnel.

Quick Fill Option: A quick fill fitting may replace the fill plug to allow the user to pump lubricant into the bowl.

Anodizing: Units can be anodized any of 8 colors (Colors available: blue, black, clear, green, red, yellow, gold and purple).

Mounting Holes: Mounting holes are options that can be incorporated into any of the lubricators.

Bowl Options: Polycarbonate bowls, aluminum bowls, sight levels, and bowl guards are available depending on the product family.

Knurled Adjustment Knob: To add a knurled adjustment knob on any lubricator, change the seventh number from “0” to “2”.

Ex: 304-1002-2.

Specifications

Maximum Pressure:
- Polycarbonate Bowls: 150 PSI
- Metal Bowls: 250 PSI

Maximum Temperature:
- Polycarbonate Bowls: 120°F
- Metal Bowls: 200°F

Pipe Size:
- 1/8” - 1 1/2” NPT
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.

Caution
Bowl guards are recommended on all polycarbonate bowl filters! All bowl guards are made of heavy-duty stainless steel.

Warning
Polycarbonate bowls can be damaged and may fail if they are exposed to or come in contact with solvents, strong alkalies, fire resistant and/or synthetic compressor lubricants.

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<td>44</td>
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<td>304-1000 Standard Series</td>
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<td>45</td>
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<td>303-4000 Large Capacity Series</td>
<td>3/4, 1, 1 1/4 &amp; 1 1/2</td>
<td>48</td>
</tr>
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</table>
LUBRICATORS: 305-3000 Miniature Series

Features
- Standard and low flow options available
- Stainless steel ball supplied with every lubricator to provide tamperproof capability
- Polycarbonate bowl or metal bowls available
- Bowl guard available with polycarbonate bowl

Operating Specifications
Bowl Capacity: 1 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F
Weight: 136 g

Materials of Construction
Lubricator Head: Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Capacity Valve: Acetal
Capacity Valve Spring: Stainless Steel
Retainer: Zinc Dichromate Plated Steel
Adaptor Tube: Brass
Stem Relief Tube: Brass
Tamperproof Ball: Stainless Steel
Sight Dome: Polycarbonate or Trogamid
Oil Pick-Up Tube: Polyethylene
Bowl Guard: Stainless Steel
Oil Fill Plug: Machined Aluminum
Seals: Buna-N (Fluorocarbon Available)

Accessories & Kits
Bowl Kits: Polycarbonate: 33509
Metal: 33540
Sight Dome Kit: 31535 (Polycarbonate)
31537 (Trogamid)

Flow Characteristics

Dimensions

Ordering Information
305-3000-1

OPTIONS

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

Mounting Hole
- Two 1/4-20 mounting holes on top surface: MH
- 1/4 NPT mounting hole on side: MS

Seals
- Buna-N: Blank
- Fluorocarbon: V

Sight Level and Dome
- Polycarbonate: Blank
- Trogamid: T

Flow
- Standard: 0
- Low-Flow: 5

Pipe Size
- 1/8": 1
- 1/4": 2
**Features**
- Automatic air control valve allows lubricator to be filled while in operation
- Compact size with five ounce bowl
- Stainless steel ball supplied with every lubricator to make any slotted screw adjusting lubricator tamperproof
- Quick fill option via a “Q” fitting in the lubricator head or base of the bowl
- Polycarbonate bowl or metal bowl available
- Bowl guard available with polycarbonate bowl
- Sight level available with metal bowl
- Tie-rod construction

**Materials of Construction**
- **Lubricator Head:** Machined Aluminum
- **Bowl:** Polycarbonate or Machined Aluminum
- **Capacity Valve:** Acetal
- **Spring:** Stainless Steel
- **Oil Adaptor:** Brass
- **Ferrule:** Machined Aluminum
- **Seals:** Buna-N (Fluorocarbon Available)
- **Tamperproof Ball:** Stainless Steel
- **Sight Level and Sight Dome:** Polycarbonate or Trogamid
- **Oil Pick-Up Tube:** Polyethylene
- **Bowl Guard:** Stainless Steel
- **Oil Fill Plug:** Machined Aluminum

**Operating Specifications**
- **Bowl Capacity:** 5 oz.
- **Maximum Pressure Ratings:**
  - Metal Bowl: 250 PSI
  - Polycarbonate Bowl: 150 PSI
- **Temperature Ratings:**
  - Metal Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Accessories & Kits**
- **Bowl Kits:**
  - Polycarbonate: 22520
  - Metal: 22537
  - Metal with Sight Level: 22521 (Polycarbonate) or 22521 (Trogamid)
- **Sight Dome:**
  - 31535 (Polycarbonate) or 31537 (Trogamid)

**Flow Characteristics**

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<thead>
<tr>
<th>OPERATING PRESSURE/PSI</th>
<th>FLOW RATE/SCFM</th>
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<tbody>
<tr>
<td>0</td>
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</tr>
<tr>
<td>10</td>
<td>0.5</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>1.5</td>
</tr>
<tr>
<td>40</td>
<td>2</td>
</tr>
<tr>
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<td>130</td>
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<td>140</td>
<td>7</td>
</tr>
<tr>
<td>150</td>
<td>7.5</td>
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</tbody>
</table>

**Dimensions**

- **Bowl Type**
  - Polycarbonate: 0
  - Polycarbonate w/Bowl Guard: 1
  - Metal: 2
  - Metal w/Sight Level: 3

- **Pipe Size**
  - 1/4”: 2
  - 3/8”: 3
  - 1/2”: 4

- **Adjustment**
  - Slotted Screw: 0
  - Knurled Knob: 2

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

  - **Drain**
    - No Drain: Blank
    - Twist: MD

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

  - **Mounting Hole**
    - Two 1/4-20 mounting holes on top surface: MH
    - 1/4" NPT mounting hole on side: MS

  - **Sight Level and Dome**
    - Polycarbonate: Blank
    - Trogamid: T

  - **Fill/Drain Options**
    - Q Fitting on Head: GT
    - Q Fitting on Base of Bowl: GB

**Ordering Information**

- **304-2000-4**
- **Flow Rate:** 2.5
- **Operating Pressure:** 105
- **Maximum Flow:**
  - 100
  - 80
  - 60
  - 40
  - 20
  - 0
- **Pipe Size:** 1/2”
- **Adjustment:** Slotted Screw 0
Features
- Automatic air control valve allows lubricator to be filled while in operation
- Threaded bowl for ease of maintenance
- Quick fill option via a “Q” fitting in the lubricator head
- Stainless steel ball supplied with every lubricator to make any slotted screw adjusting lubricator tamperproof
- Polycarbonate or metal bowl available
- Bowl guard available with polycarbonate bowl
- Sight level available with metal bowl

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Materials of Construction
Lubricator Head: Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Capacity Valve: Acetal
Spring: Stainless Steel
Oil Adaptor: Brass
Ferrule: Machined Aluminum
Tamperproof Ball: Stainless Steel
Sight Levels and Sight Dome: Polycarbonate or Trogamid
Oil Pick-Up Tube: Polyethylene
Bowl Guard: Stainless Steel
Oil Fill Plug: Machined Aluminum
Seals: Buna-N (Fluorocarbon Available)

Flow Characteristics

Accessories & Kits
Bowl Kits:
Polycarbonate: 31046
Metal: 31047
Metal w/Sight Levels:
31317 (Polycarbonate) or 31317 (Trogamid)
Sight Dome Kit:
31535 (Polycarbonate) 31537 (Trogamid)

Dimensions

Ordering Information
305-1000-4

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

Drain
No Drain Blank

Seals
Buna-N Blank
Fluorocarbon V

Mounting Hole
Two 1/4-20 mounting holes on top surface MH
1/4 NPT mounting hole on side MS

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

Fill/Drain Options
G Fitting on Head QT
LUBRICATORS: 304-1000 Standard Series

Features
- Automatic air control valve allows lubricator to be filled while in operation
- Stainless steel ball supplied with every lubricator to make any slotted screw adjusting lubricator tamperproof
- Quick fill option via a “Q” fitting in the lubricator head or base of the bowl
- Polycarbonate bowl or metal bowl available
- Bowl guard available with polycarbonate bowl
- Sight level available with metal bowl
- Tie-rod construction

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Materials of Construction
Lubricator Head: Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Capacity Valve: Acetal
Spring: Stainless Steel
Oil Adaptor: Brass
Ferrule: Machined Aluminum
Seals: Buna-N (Fluorocarbon Available)
Tamperproof Ball: Stainless Steel
Sight Level and Sight Dome: Polycarbonate or Trogamid
Oil Pick-Up Tube: Polyethylene
Bowl Guard: Stainless Steel
Oil Fill Plug: Machined Aluminum

Flow Characteristics

Accessories & Kits
Bowl Kits:
Polycarbonate: 21557
Metal: 21558
Metal with Sight Level:
21559 (Polycarbonate) or 21559 (Trogamid)
Sight Dome:
31535 (Polycarbonate) or 31537 (Trogamid)

Dimensions

Ordering Information
304-1000-4

OPTIONS

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

Drain
No Drain  Blank
Twist  MD

Seals
Buna-N  Blank
Fluorocarbon  V

Mounting Hole
Two 1/4-20 mounting holes on top surface  MH
1/8 NPT mounting hole on side  MS

Sight Level and Dome
Polycarbonate  Blank
Trogamid  T

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

Fill/Drain Options
Q Fitting on Head  GT
Q Fitting on Base of Bowl  GB
LUBRICATORS: **304-4000** Large Capacity Series

**Features**
- Automatic air control valve allows lubricator to be filled while in operation
- High flow capability with extended bowl
- Stainless steel ball supplied with every lubricator to make any slotted screw adjusting lubricator tamperproof
- Quick fill option via a “Q” fitting in the lubricator head or base of the bowl
- Polycarbonate bowl or metal bowl available
- Bowl guard available with polycarbonate bowl
- Sight level available with metal bowl
- Tie-rod construction

**Operating Specifications**
- **Bowl Capacity:** 32 oz.
- **Maximum Pressure Ratings:**
  - Metal Bowl: 250 PSI
  - Polycarbonate Bowl: 150 PSI
- **Temperature Ratings:**
  - Metal Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

**Materials of Construction**
- **Lubricator Head:** Machined Aluminum
- **Bowl:** Polycarbonate or Machined Aluminum
- **Capacity Valve:** Acetal
- **Spring:** Stainless Steel
- **Oil Adaptor:** Brass
- **Ferrule:** Machined Aluminum
- **Seals:** Buna-N (Fluorocarbon Available)
- **Tamperproof Ball:** Stainless Steel
- **Sight Level and Sight Dome:** Polycarbonate or Trogamid
- **Oil Pick-Up Tube:** Polyethylene
- **Bowl Guard:** Stainless Steel
- **Oil Fill Plug:** Machined Aluminum

**Flow Characteristics**

**Accessories & Kits**
- **Bowl Kits:**
  - Polycarbonate: 24555
  - Metal: 24558
- **Metal with Sight Level:**
  - 24559 (Polycarbonate) or 24559 (Trogamid)
- **Sight Dome:**
  - 31535 (Polycarbonate) or 31537 (Trogamid)

**Dimensions**

**Ordering Information**

- **Options**
  - **Anodizing**
    - No Anodizing: Blank
    - Blue: A1
    - Black: A2
    - Clear: A3
    - Green: A4
    - Red: A5
    - Yellow: A6
    - Gold: A7
    - Purple: A8
  - **Drain**
    - No Drain: Blank
    - Twist: MD
  - **Seals**
    - Buna-N: Blank
    - Fluorocarbon: V
  - **Mounting Hole**
    - Two 1/4-20 mounting holes on top surface: MH
    - 1/4 NPT mounting hole on side: MS
  - **Sight Level and Dome**
    - Polycarbonate: Blank
    - Trogamid: T
  - **Fill/Drain Options**
    - Q Fitting on Head: QT
    - Q Fitting on Base of Bowl: GB
LUBRICATORS: 303-5000 Large Capacity Series

Features
• Automatic air control valve allows lubricator to be filled while in operation
• High flow capability with extended bowl
• Stainless steel ball supplied with every lubricator to make any slotted screw adjusting lubricator tamperproof
• Quick fill option via a “Q” fitting in the lubricator head or base of the bowl
• Polycarbonate bowl or metal bowl available
• Bowl guard available with polycarbonate bowl
• Sight level available with metal bowl
• Tie-rod construction

Materials of Construction
Lubricator Head: Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Bowl Guard: Stainless Steel
Capacity Valve: Acetal
Cap Valve Spring: Bronze
Cap Valve Core: Brass
Check Valve Ball: Chrome Plated Steel
Ferrule: Machined Aluminum
Spring Pin: Steel
Tamperproof Ball: Stainless Steel
Sight Level and Sight Dome: Polycarbonate or Trogamid
Oil Pick-Up Tube: Polyethylene
Oil Fill Plug: Machined Aluminum
Seals: Buna-N (Fluorocarbon Available)

Operating Specifications
Bowl Capacity: 21 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Accessories & Kits
Bowl Kits:
Polycarbonate: 25557 - Metal: 25558
Metal with Sight Level: 25559 (Polycarbonate) or 25559 (Trogamid)
Seal Kit: 24560
Sight Dome:
31535 (Polycarbonate) or 31537 (Trogamid)

Flow Characteristics

Dimensions

Ordering Information
303-5000-6

Options

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

Drain
No Drain Blank
Twist MD

Seals
Buna-N Blank
Fluorocarbon V

Mounting Hole
Two 1/4-20 mounting holes on top surface M1
1/4 NPT mounting hole on side MS

Pipe Size
3/4" 6
1" 8

Sight Level and Dome
Polycarbonate Blank
Trogamid T

Fill/Drain Options
Q Fitting on Head GT
Q Fitting on Base of Bowl UB
LUBRICATORS: 303-4000 Large Capacity Series

Features
- Automatic air control valve allows lubricator to be filled while in operation
- High flow capability with 32 oz. bowl
- Stainless steel ball supplied with every lubricator to make any slotted screw adjusting lubricator tamperproof
- Quick fill option via a “Q” fitting in the lubricator head or base of the bowl
- Polycarbonate bowl or metal bowl available
- Bowl guard available with polycarbonate bowl
- Sight level available with metal bowl
- Tie-rod construction

Operating Specifications
Bowl Capacity: 32oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Materials of Construction
Lubricator Head: Machined Aluminum
Bowl: Polycarbonate or Machined Aluminum
Capacity Valve: Acetal
Cap Valve Spring: Bronze
Cap Valve Core: Brass
Ferrule: Machined Aluminum
Spring Pin: Zinc Plated Steel
Tamperproof Ball: Stainless Steel
Sight Levels and Sight Dome: Polycarbonate or Trogamid
Oil Pick-Up Tube: Polyethylene
Bowl Guard: Stainless Steel
Oil Fill Plug: Machined Aluminum
Seals: Buna-N (Fluorocarbon Available)

Accessories & Kits
Bowl Kits:
- Polycarbonate: 24557 - Metal: 24558
- Metal with Sight Level: 24559 (Polycarbonate) or 24559 (Trogamid)
Seal Kit: 24560
Sight Dome:
31535 (Polycarbonate) or 31537 (Trogamid)

Flow Characteristics

Ordering Information
303-4000-6

Dimensions

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

Drain
- No Drain: Blank
- Twist: MD

Seals
- Buna-N: Blank
- Fluorocarbon: V

Mounting Hole
- Two 1/4-20 mounting holes on top surface: MH
- 1/4 NPT mounting hole on side: MS

Pipe Size
- 3/4": 6
- 1": 8
- 1 1/4": 10
- 1 1/2": 12

Fill/Drain Options
- Q Fitting on Head: QT
- Q Fitting on Base of Bowl: QB
**Filter/Regulators**

**Optional Components**

**Drains:** Manual drains are standard. Impulse drains (“D”) or float drains (“F”) available, depending on product family.

**Anodizing:** Units can be anodized any of eight colors. (Colors available: blue, black, clear, green, red, yellow, gold and purple).

**Pipe Size:** 1/8” - 1/2” NPT

**Bowl Options:** Polycarbonate bowls, aluminum bowls, sight levels and bowl guards available depending on the product family.

**Dense Pack Element Design**

Our unique element design provides multiple points of impaction throughout the cross section of the element. This guarantees that the maximum amount of particulate is captured while also ensuring minimal pressure drop over the long life of the element.

Monnier filter/regulators are available in a variety of sizes and are designed to reduce the footprint of the air preparation assembly.

Particulate and coalescing flow paths and elements are available. Care must be taken when selecting the appropriate filter type.

All filter/regulators have the same options as the corresponding individual filters and regulators.

**Specifications**

**Maximum Pressure:**
- Polycarbonate Bowls: 150 PSI
- Metal Bowls: 250 PSI

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**Caution**

Bowl guards are recommended on all polycarbonate bowl filters! All bowl guards are made of heavy-duty stainless steel.

**Warning**

Polycarbonate bowls can be damaged and may fail if they are exposed to or come in contact with solvents, strong alkalies, fire resistant and/or synthetic compressor lubricants.

**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.
FILTER REGULATORS: 3000 Miniature Series (Particulate)

Features
- Filter and regulator consolidated into one assembly
- Reduces footprint of air prep assembly
- Polycarbonate or aluminum bonnets available
- Polycarbonate or aluminum bowls available
- Manual or impulse drains available
- Preset and tamperproof options

Materials of Construction
Body: Machined Aluminum
Bonnet: Aluminum or Polycarbonate
Bowl: Polycarbonate or Machined Aluminum
Seat: Nylon Poppet Spring: Stainless Steel
Whirl Disc: Alumimum
Element (20 and 10 Micron): Phenolic Impregnated Cellulose
Element (5 Micron): Polypropylene
Element Retainer: Celanese
Poppet Valve: Buna-N (Fluorocarbon Available)
Seat: Nylon Locking Nut: (Fluorocarbon Available)
Compression Spring: Steel, Brass, Buna-N
Diaphragm Assembly: Steel, Brass, Buna-N
Drain: • Manual: Brass and Plated Steel
• Impulse: Machined Aluminum, Zinc Plated Steel, and Buna-N (Fluorocarbon Available)

Operating Specifications
Bowl Capacity: 1 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Accessories & Kits
Elements: 20 Micron: 23004 - 10 Micron: 23025 - 5 Micron: 23040
Regulator Repair Kits:
- Relieving: 13532 - Non-Relieving: 13533
Bowl Kit w/ Manual Drain:
- Polycarbonate: 23520 - Aluminum: 23533
Bowl Kit w/ Impulse Drain:
- Polycarbonate: 23521 - Aluminum: 23534
Bracket Kit: - Polycarbonate Bonnet: 13536 - Aluminum Bonnet: 13534
Mounting Nut Only: - Polycarbonate Bonnet: 13133 - Aluminum Bonnet: 13025

Flow Characteristics

Flow Rate: SCFM
Primary Pressure: 120 PSIG

Dimensions

Ordering Information

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

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

Drain
Manual Blank
Impulse D

Seals
Buna-N Blank
Fluorocarbon V

Attachment Parts
Bracket B
Gauge G
Knob K

Tamperproof
Tamperproof T
Preset P
Preset and Tamperproof PT
Preset and Tamperproof Preset and Tamperproof (PS) PTS
FILTER REGULATORS: 3009 Miniature Series (Coalescing)

Features
- Coalescing filter and regulator consolidated into one assembly
- Reduces footprint of air prep assembly
- Polycarbonate or aluminum bonnets available
- Polycarbonate or aluminum bowls available
- Manual or Impulse drains available
- Preset and Tamperproof options
- Gauges available
- Available w/ 0.3 or 0.01 Micron elements
- Body cones green anodized as standard (other colors available)

Materials of Construction
Body: Anodized Machined Aluminum
Bonnet: Machined Aluminum or Polycarbonate
Spring: Stainless Steel
Diaphragm Gasket: Stainless Steel
Valve Seat: Brass
Poppet Valve: Buna-N (Fluorocarbon Available)
Element (0.3 and 0.01 Micron): Borosilicate Glass Fiber
Element Retainer: Celanese
Element Shield: Polycarbonate
Adaptor Outlet: Machined Aluminum (Impulse Drain)
Seat: Nylon
Piston Spring: Stainless Steel
Valve Seat: Buna-N (Fluorocarbon Available)
Drain: • Manual: Zinc Plated Brass
• Impulse: Machined Aluminum and Zinc Plated Steel

Operating Specifications
Bowl Capacity: 1 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Flow Characteristics

Flow Rate: SCFM
Secondary Pressure: PSIG

B01-3009-2

Accessories & Kits
Elements: - 0.3 Micron: 23543 - 0.01 Micron: 23592
Regulator Repair Kits:
- Relieving: 13532 - Non-Relieving: 13533
Bowl Kit w/ Manual Drain:
- Polycarbonate: 23520 - Aluminum: 23533
Bowl Kit w/ Impulse Drain:
- Polycarbonate: 23521 - Aluminum: 23534
Bracket Kit: - Polycarbonate Bonnet: 13536
- Aluminum Bonnet: 13534
Mounting Nut Only: - Polycarbonate Bonnet: 13133
- Aluminum Bonnet: 13025

Ordering Information

Dimensions

6 5/32 APPROX.
1 1/2
3 1/2
FILTER REGULATORS: C01-1000/2000 Series

Features
- Filter and regulator consolidated into one assembly
- Reduces footprint of air prep assembly
- Tie-rod construction for maximum stability
- Polycarbonate or aluminum bowls available
- Manual, float or impulse drains available
- Preset and tamperproof options
- 1000 Series has a greater bowl capacity to accommodate a larger sump area
- 2000 Series has a compact design for applications where space is at a premium

Materials of Construction
- Body: Machined Aluminum
- Bonnet: Aluminum
- Spring Guide: Zinc Plated Steel
- Compression Spring: Spring Steel
- Diaphragm Gasket: Stainless Steel
- Valve Seat: Brass
- Poppet Valve Spring: Stainless Steel
- Seals: Buna-N (Fluorocarbon available)
- Whirl Disc: Acetal
- Element (20, 10, 3 Micron): Phenolic Impregnated Acrylic Fibers
- Stud: Zinc Plated Steel
- Baffle Plate: Acetal
- Base Nut: Aluminum
- Drain: Brass and Zinc Plated Steel
- Bowl: Polycarbonate or Machined Aluminum
- Bowl Guard: Stainless Steel
- Drain: - Manual: Brass and Plated Steel
- Float: Anodized Aluminum w/ Acetal and Stainless Steel
- Impulse: Machined Aluminum, Brass, and Buna-N

Operating Specifications
- Bowl Capacity: 5 oz. or 8 oz.
- Maximum Pressure Ratings:
  - Metal Bowl: 250 PSI
  - Polycarbonate Bowl: 150 PSI
- Temperature Ratings:
  - Metal Bowl: 0-200°F
  - Polycarbonate Bowl: 0-120°F

Accessories & Kits
- (2000 Series) 20 Micron: 22205 - 10 Micron: 22033
  - 3 Micron: 22032
- (1000 Series) 20 Micron: 21205 - 10 Micron: 21036
  - 3 Micron: 21037
- Regulator Kits: Relieving: 11531 Relieving (20-250):
  - 11538 Non-Relieving: 11532 Relieving (20-250): 11539
- Bowl Kits:
  - Poly.: 22520
  - Alum.: 22537
  - Alum. w/Sight Level: 22521-P or 22521-T

Bowl Size
- 5 oz. Poly.: 2
- 8 oz. Poly.: 1
- Poly.: 0
- Polycarbonate w/ Bowl Guard: 1
- Metal: 2
- Metal w/Sight Level: 3

Pressure
- 10-130 Relieving: 0
- 10-130 Non-Relieving: 1
- 5-60 Relieving: 2
- 5-60 Non-Relieving: 3
- 3-30 Relieving: 4
- 3-30 Non-Relieving: 5
- 20-250 Relieving: 6
- 20-250 Non-Relieving: 7

Elements
- 20 Micron: 0
- 10 Micron: 1
- 3 Micron: 2

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

Dimensions

Ordering Information

C01-1000-2

Options
- No Anodizing: Blank
- Anodizing: A1, A2, A3, A4, A5, A6, A7, A8
- Drain: M, F
- Manual: M
- Impulse: F
- Float: M
- Seals: Buna-N: Blank, Fluorocarbon: V
- Tamperproof: T, PT
- Tamperproof: T
- Preset: P
- Preset and Tamperproof: PT
- Attachment Parts: Bracket: B, Gauge: G, Knob: K

Flow Characteristics

Primary Pressure: 120 PSIG

Flow Rate: SCFM

Secondary Pressure: PSIG
FILTER REGULATORS: C01-1009 Series

Features
- Coalescing filter and regulator consolidated into one assembly
- Reduces footprint of air prep assembly
- Polycarbonate or Aluminum Bowls available
- Manual, Float or Impulse drains available
- Preset and Tamperproof options
- Gauges available
- Body comes green anodized as standard (other colors available)
- 0.3 and 0.01 Micron Elements available

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Materials of Construction
Body: Anodized Machined Aluminum
Bonnet: Aluminum
Spring Guide: Mild Steel
Compression Spring: Spring Steel
Diaphragm Gasket: Stainless Steel
Valve Seat: Brass
Poppet Valve Spring: Stainless Steel
Seals: Buna-N (Fluorocarbon available)
Whirl Disc: Copolymer Acetal
Element: Borosilicate glass fibers
Stud: Zinc Plated Steel
Baffle Plate: Acetal
Base Nut: Aluminum
Bowl: Polycarbonate or Aluminum
Bowl Guard: Stainless Steel
Drain: - Manual: Brass and Plated Steel
- Float: Anodized Aluminum w/ Acetal and Stainless Steel Float Mechanism
- Impulse: Machined Aluminum, Brass, and Buna-N

Flow Characteristics

Accessories & Kits
Elements: - 0.3 Micron: 21545 - 0.01 Micron: 21751
Regulator Repair Kits:
Relieving: 11531 Relieving (20-250): 11538
Non-Relieving: 11532 Relieving (20-250): 11539
Bowl Kits: Polycarbonate Bowl: 21557
Aluminum Bowl: 21558
Aluminum Bowl w/ sight level: 21559-P
(Polycarbonate) or 21559-T (Trogamid)

Ordering Information
C01-1009-2

Dimensions

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

- Drain
  Manual: Blank
  Impulse (External): D
  Float (External): F

- Seals
  Buna-N: Blank
  Fluorocarbon: V

- Tamperproof
  Tamperproof: T
  Preset: P
  Preset and Tamperproof: PT

- Attachment Parts
  Bracket: B
  Gauge: G
  Knob: K

- Elements
  0.3 Micron: 9
  0.01 Micron: 8

- Pipe Size
  1/4" 2
  3/8" 3
  1/2" 4
FILTER REGULATORS: B05-1000 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
- Manual, float or impulse drains available
- Aluminum or polycarbonate bowls available
- Can be ordered with gauge

Operating Specifications

Bowl Capacity: 8 oz. Gauge Ports: 1/4” NPT
Maximum Inlet Pressure: 250 PSIG
Temperature Rating:
Polycarbonate Bowls: 0-120°F
Metal Bowls: 0-175°F Weight: 2 lbs.

Materials of Construction

Body: Machined Aluminum
Bonnet: Glass Filled Acetal
Knob, Adjuster & Mounting Nut: Acetal
Diaphragm Gasket: Acetal
Springs: Music Wire
Spring Guide: Machined Aluminum
Seat: Brass Poppet Assembly: Brass
Seals: Buna-N (Fluorocarbon available)
Whirl Disc: Aluminum
Element: Phenolic Impregnated Acrylic Fiber
Stud: Zinc Plated Steel
Drain: Manual: Plastic
Float: Acetal and Stainless Steel
Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
Bowl: Polycarbonate or Aluminum
Bowl Guard: Stainless Steel

Flow Characteristics

Flow Rate: SCFM
Primary Pressure: 120 PSIG
SECONDARY PRESSURE PSIG
FLOW RATE: SCFM

Elements:
- 20 Micron: 21025
- 10 Micron: 21036
- 3 Micron: 21037

Ordering Information

B05-1000-2

Options

- Anodizing
  - Black: Blank
  - Blue: A1
  - Green: A4
  - Yellow: A6
  - Purple: A8
- Preset: P
- Gauge: G
- Bracket: B
- Seals
  - Buna-N (Standard): Blank
  - Fluorocarbon: V
- Drain
  - Manual: Blank
  - Float (Internal): F
  - Impulse (External): D

Dimensions

2 1/4

10 1/4

6 7/16

2 1/2
FILTER REGULATORS: C05-1000 Series

Features
- Threaded bowl for ease of maintenance
- Polycarbonate or aluminum bowls available
- Filter and regulator consolidated into one assembly
- Reduces footprint of air prep assembly
- Manual, float or impulse drains available
- Preset and tamperproof options

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Accessories & Kits
Elements: 20 Micron: 21205 - 10 Micron: 21036
- 3 Micron: 21037
REGULATOR KITS: 20-250 PSI
Relieving: 11531 11538
Non-Relieving: 11532 11539
Bowl Kits: - Polycarbonate Bowl Kit: 21557
- Polycarbonate Bowl Kit w/ Float Drain: 21572
- Metal Bowl Kit w/ Float Drain: 21583
Metal Bowl Kit: 21580
Metal Bowl with Sight Level Kit
(Polycarbonate/ Trogamid): 21581-P or 21581-T
Metal Bowl with Float Drain and Sight Level Kit
(Polycarbonate/ Trogamid): 21583-P or 21583-T

Materials of Construction
Body: Machined Aluminum
Bonnet: Machined Aluminum or Polycarbonate
Spring Guide: Zinc Plated Steel
Diaphragm Gasket: Stainless Steel
Valve Seat: Brass
Poppet Valve Spring: Stainless Steel
Seals: Buna-N (Fluorocarbon available)
Whirl Disc: Aluminum
Element (20, 10, 3 Micron): Phenolic Impregnated Acrylic Fibers
Stud: Zinc Plated Steel
Drain: Manual: Plastic
Float: Acetal and Stainless Steel
Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
Bowl: Polycarbonate or Aluminum
Bowl Guard: Stainless Steel

Flow Characteristics

Dimensions

Ordering Information
C05-1000-2

Options
- Anodizing: Blue A1, Black A2, Clear A3, Green A4, Red A5, Yellow A6, Gold A7, Purple A8
- Attachment Parts: Gauge G, Bracket B, Knob K
- Seals: Buna-N (Standard) Blank, Fluorocarbon V
- Drain: Manual Blank, Float (Internal) F, Impulse (External) D
- Tamperproof: Tamperproof T, Preset P, Preset and Tamperproof PT

Flow Rate: SCFM
Primary Pressure: 120 PSIG
Secondary Pressure: PSIG
0 10 20 30 40 50 60 70 80 90 100
0 5 10 15 20 25 30 35 40 45 50

Pipe Size
1/4 2
3/8 3
1/2 4
FILTER REGULATORS: C05-1009 Series

Features
- Coalescing filter and regulator consolidated into one assembly
- Reduces footprint of air prep assembly
- Polycarbonate or aluminum bowls available
- Manual, float or impulse drains available
- Preset and tamperproof options
- Gauges available
- 0.3 and 0.01 Micron elements available
- Green anodized body standard, other colors available

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowl: 0-200°F
- Polycarbonate Bowl: 0-120°F

Accessories & Kits
Elements: 0.3 Micron: 21720 - 0.01 Micron: 21762
REGULATOR KITS:
- 20-250 PSI
Relieving: 11531    11538
Non-Relieving: 11532    11539
Bowl Kits: - Polycarbonate Bowl Kit: 21557
- Polycarbonate Bowl Kit w/ Float Drain: 21572
- Metal Bowl Kit w/ Float Drain: 21583
Metal Bowl Kit: 21580
Metal Bowl with Sight Level Kit
(Polycarbonate/Trogamid): 21581-P or 21581-T
Metal Bowl with Float Drain and Sight Level Kit
(Polycarbonate/Trogamid): 21583-P or 21583-T

Materials of Construction
Body: Machined Aluminum
Bonnet: Machined Aluminum or Polycarbonate
Spring Guide: Zinc Plated Steel
Diaphragm Gasket: Stainless Steel
Valve Seat: Brass
Poppet Valve Spring: Stainless Steel
Seals: Buna-N (Fluorocarbon available)
Whirl Disc: Aluminum
Stud: Zinc Plated Steel
Drain:
- Manual: Plastic
- Float: Acetal and Stainless Steel
- Impulse: Machined Aluminum, Brass, and Buna-N (Fluorocarbon Available)
Bowl: Polycarbonate or Aluminum
Bowl Guard: Stainless Steel

Flow Characteristics

Dimensions

Ordering Information

COALEScing FILTER
MAXIMUM RECOMMENDED FLOW RATES

FLOW RATE: SCFM

APPROX.

Green  Blank
Blue  A1
Black  A2
Clear  A3
Red  A5
Yellow  A6
Gold  A7
Purple  A8

Gauge  G
Bracket  B
Knob  K

Buna-N (Standard)  Blank
Fluorocarbon  V

Manual  Blank
Float (Internal)  F
Impulse (External)  D

Tamperproof  T
Preset  P
Preset and Tamperproof  PT
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.
### MINIATURE FILTER REGULATOR LUBRICATORS: 213-3000

#### Components

**Filter:** 204-3000  
**Regulator:** 101-3000  
**Lubricator:** 305-3000  
**Nipple:** Zinc Dichromate Coated Steel

Please see individual product pages for further details.

#### Operating Specifications

<table>
<thead>
<tr>
<th>Bowl Capacity:</th>
<th>1 oz.</th>
</tr>
</thead>
</table>
| Maximum Pressure Ratings: | - Metal Bowl: 250 PSI  
- Polycarbonate Bowl: 150 PSI |
| Temperature Ratings: | - Metal Bowls: 0-200°F  
- Polycarbonate Bowls: 0-120°F |

#### Features

- Filter, regulator and lubricator consolidated into one assembly  
- Polycarbonate or aluminum bowls available  
- Manual or impulse drains available  
- Gauge included  
- High flow and low flow lubricator options  
- 10-130 PSIG spring

#### Ordering Information

**213-3000-2**

<table>
<thead>
<tr>
<th>Bowl Type</th>
<th>Polycarbonate</th>
<th>Polycarbonate w/ Bowl Guard</th>
<th>Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Flow</td>
<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Low Flow</td>
<td>0</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elements</th>
<th>20 Micron</th>
<th>10 Micron</th>
<th>5 Micron</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
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<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>1/8”</th>
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<tr>
<td>1</td>
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<table>
<thead>
<tr>
<th>OPTIONS</th>
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<tr>
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<table>
<thead>
<tr>
<th>Drains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual</td>
</tr>
<tr>
<td>Impulse</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Seals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buna-N (Standard)</td>
</tr>
<tr>
<td>Fluorocarbon</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attachment Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket</td>
</tr>
</tbody>
</table>

### MINIATURE FILTER/REGULATOR LUBRICATORS: B3-3000

#### Components

**Filter/Regulator:** B01/C01-3000  
**Lubricator:** 305-3000  
**Nipple:** Zinc Dichromate Coated Steel

Please see individual product pages for further details.

#### Operating Specifications

<table>
<thead>
<tr>
<th>Bowl Capacity:</th>
<th>1 oz.</th>
</tr>
</thead>
</table>
| Maximum Pressure Ratings: | - Metal Bowl: 250 PSI  
- Polycarbonate Bowl: 150 PSI |
| Temperature Ratings: | - Metal Bowls: 0-200°F  
- Polycarbonate Bowls: 0-120°F |

#### Features

- Filter/regulator and lubricator consolidated into one assembly  
- Reduces footprint of air prep assembly  
- Polycarbonate or aluminum bonnets available  
- Polycarbonate or aluminum bowls available  
- Manual or impulse drains available  
- Gauge included  
- High flow and low flow lubricator options  
- 10-130 PSIG spring

#### Ordering Information

**B3-3000-2**

<table>
<thead>
<tr>
<th>Bonnet</th>
<th>Polycarbonate</th>
<th>Aluminum</th>
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<tbody>
<tr>
<td></td>
<td>B</td>
<td>C</td>
</tr>
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<table>
<thead>
<tr>
<th>Bowl Type</th>
<th>Polycarbonate</th>
<th>Polycarbonate w/ Bowl Guard</th>
<th>Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Flow</td>
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<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Low Flow</td>
<td>0</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

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<th>10 Micron</th>
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<tr>
<th>Attachment Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket</td>
</tr>
<tr>
<td>Knob (Aluminum Bonnet Only)</td>
</tr>
</tbody>
</table>
FILTER REGULATOR LUBRICATORS: 213-1000/2000

Components
Filter: 204-1000/2000
Regulator: 104-1000
Lubricator: 304-1000/2000
Nipple: Zinc Dichromate Coated Steel

Features
• Filter, regulator and lubricator consolidated into one assembly
• Polycarbonate or aluminum bowls available
• Manual, float or impulse drains available
• Gauge included
• Tie-rod construction for maximum stability

Operating Specifications
Bowl Capacity: 5 oz. or 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowls: 0-200°F
- Polycarbonate Bowls: 0-120°F

Ordering Information

Pipe Size
1/4” 2
3/8” 3
1/2” 4

Bowl Type
Polycarbonate 0
Polycarbonate w/ Guard 1
Metal 2
Metal w/ Sight Level 3

Bowl Capacity
5 Ounce 2
8 Ounce 1

Elements
20 Micron 0
10 Micron 1
3 Micron 2

OPTIONS
Anodizing
None Blank
Blue A1
Black A2
Clear A3
Green A4
Red A5
Yellow A6
Gold A7
Purple A8

Drain
Manual Blank
Impulse D
Float F

Seals
Buna-N (Standard) Blank
Fluorocarbon V

Attachment Part
Bracket B
Knob K

FILTER/REGULATOR LUBRICATORS: C3-1000/2000

Components
Filter/Regulator: C01-1000 /2000
Lubricator: 304-1000 /2000
Nipple: Zinc Dichromate Coated Steel

Features
• Filter/regulator and lubricator consolidated into one assembly
• Polycarbonate or aluminum bowls available
• Manual, float or impulse drains available
• Gauge included
• 10-130 PSIG spring

Ordering Information

Pipe Size
1/4” 2
3/8” 3
1/2” 4

Bowl Type
Polycarbonate 0
Polycarbonate w/ Guard 1
Metal 2
Metal w/ Sight Level 3

Bowl Capacity
5 oz. 2
8 oz. 1

Elements
20 Micron 0
10 Micron 1
3 Micron 2

OPTIONS
Anodizing
None Blank
Blue A1
Black A2
Clear A3
Green A4
Red A5
Yellow A6
Gold A7
Purple A8

Drain
Manual Blank
Impulse D
Float F

Seals
Buna-N (Standard) Blank
Fluorocarbon V

Attachment Part
Bracket B
Knob K

Ordering Information

213-1000-2

Pipe Size
1/4” 2
3/8” 3
1/2” 4

Bowl Type
Polycarbonate 0
Polycarbonate w/ Guard 1
Metal 2
Metal w/ Sight Level 3

Bowl Capacity
5 Ounce 2
8 Ounce 1

Elements
20 Micron 0
10 Micron 1
3 Micron 2

OPTIONS
Anodizing
None Blank
Blue A1
Black A2
Clear A3
Green A4
Red A5
Yellow A6
Gold A7
Purple A8

Drain
Manual Blank
Impulse D
Float F

Seals
Buna-N (Standard) Blank
Fluorocarbon V

Attachment Part
Bracket B
Knob K
FILTER/REGULATOR LUBRICATORS: B3-1000

Components
Filter: B05-1000
Lubricator: 305-3000
Nipple: Zinc Dichromate Coated Steel

Features
• Filter/regulator and lubricator consolidated into one assembly
• Gauge included
• Push to lock bonnet assembly
• Black anodized finish standard
• Polycarbonate or aluminum bowls available
• Reduces footprint of air prep assembly
• Manual, float or impulse drains available
• Threaded bowls for ease of maintenance

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowls: 0-200°F
- Polycarbonate Bowls: 0-120°F

FILTER REGULATOR LUBRICATORS: FRL-1000

Components
Filter: 205-1000
Regulator: 104-1000
Lubricator: 305-1000
Nipple: Zinc Dichromate Coated Steel

Features
• Filter, regulator and lubricator consolidated into one assembly
• Polycarbonate or aluminum bowls available
• Reduces footprint of air prep assembly
• Manual, float or impulse drains available
• Gauge included
• Threaded bowls for ease of maintenance

Operating Specifications
Bowl Capacity: 8 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowls: 0-200°F
- Polycarbonate Bowls: 0-120°F
FILTER REGULATOR LUBRICATORS: 213-5000

Components

Filter: 201-5000
Regulator: 116-5000
Lubricator: 303-5000
Nipple: Zinc Dichromate Coated Steel

Features

• Filter, regulator and lubricator consolidated into one assembly
• Polycarbonate or aluminum bowls available
• Manual, float or impulse drains available
• Gauge included

Operating Specifications

Bowl Capacity: 21 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowls: 0-200°F
- Polycarbonate Bowls: 0-120°F

Ordering Information

213-5000-6

<table>
<thead>
<tr>
<th>Bowl Type</th>
<th>Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarbonate</td>
<td>0</td>
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<tr>
<td>Polycarbonate w/ Bowl Guard</td>
<td>1</td>
</tr>
<tr>
<td>Metal</td>
<td>2</td>
</tr>
<tr>
<td>Metal w/ Sight Levels</td>
<td>3</td>
</tr>
</tbody>
</table>

Options

Anodizing
- None: Blank
- Blue: A1
- Black: A2
- Clear: A3
- Green: A4
- Red: A5
- Yellow: A6
- Gold: A7
- Purple: A8

Drain
- Manual: Blank
- Impulse: D
- Float: F

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

Attachment Part
- Bracket: B
- Knob: K

Components

Filter: 201-4000
Regulator: 116-4000
Lubricator: 303-4000
Nipple: Zinc Dichromate Coated Steel

Features

• Filter, regulator and lubricator consolidated into one assembly
• Polycarbonate or aluminum bowls available
• Manual, float or impulse drains available
• Gauge included

Operating Specifications

Bowl Capacity: 32 oz.
Maximum Pressure Ratings:
- Metal Bowl: 250 PSI
- Polycarbonate Bowl: 150 PSI
Temperature Ratings:
- Metal Bowls: 0-200°F
- Polycarbonate Bowls: 0-120°F

Ordering Information

213-4000-8

<table>
<thead>
<tr>
<th>Bowl Type</th>
<th>Elements</th>
</tr>
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<tbody>
<tr>
<td>Polycarbonate</td>
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<tr>
<td>Polycarbonate w/ Bowl Guard</td>
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</tr>
<tr>
<td>Metal</td>
<td>2</td>
</tr>
<tr>
<td>Metal w/ Sight Levels</td>
<td>3</td>
</tr>
</tbody>
</table>

Options

Anodizing
- None: Blank
- Blue: A1
- Black: A2
- Clear: A3
- Green: A4
- Red: A5
- Yellow: A6
- Gold: A7
- Purple: A8

Drain
- Manual: Blank
- Impulse: D
- Float: F

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

Attachment Part
- Bracket: B
- Knob: K
Monnier offers a line of particulate filters, coalescing filters, regulators and filter/regulators in 316 Stainless Steel. Designed to withstand caustic solutions, harsh operating conditions and other demanding applications, the Monnier Stainless Line is ideal for the following industries:

- Food preparation and packaging
- Pharmaceutical
- Natural gas
- Offshore
- Wastewater treatment

Designed with those demanding applications in mind, highlights of the Monnier Stainless Line include:

- 316 Stainless Steel: All metal components, including internals, are made of 316 SS, making them the most impervious to any sort of degradation.
- NACE Compliant: Each component of the stainless line adheres to the NACE MR0175 standard.
- Flexibility: All options found in our machined aluminum miniature series are available in the stainless line, including pressure ranges, element ratings and automatic drain options.

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.
STAINLESS STEEL FILTERS: **204S-3200** Series

Features

- NACE MR0175 Compliant
- 316 SS housing and internal components
- Excellent water and particulate removal efficiency
- Threaded bowl and element retainer for easy maintenance
- Bowl seal held captive
- 20 micron element standard; 10 & 5 micron elements available
- Manual or automatic drains
- Whirl disc design creates high centrifugal force with minimal pressure drop
- 1 ounce bowl capacity
- High flow: 25 SCFM @ 80 PSIG inlet with 7 PSI $\Delta P$

Materials of Construction

- **Head:** 316 Stainless Steel
- **Bowl:** 316 Stainless Steel
- **Whirl Disc:** 316 Stainless Steel
- **Element Retainer:** Polypropylene
- **Element:** Phenolic/Melamine Impregnated Cellulose
- **Seals:** Fluorocarbon
- **Drain:** 316 Stainless Steel (Manual & Impulse)

Operating Specifications

- **Maximum Pressure:** 250 PSI
- **Maximum Temperature:** 200°F

Flow Characteristics

<table>
<thead>
<tr>
<th>OPERATING PRESSURE</th>
<th>PRESSURE DROP: PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
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<td>12</td>
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<td>15</td>
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<tr>
<td>21</td>
<td>6</td>
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<tr>
<td>24</td>
<td>7</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>FLOW RATE: SCFM</th>
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<tbody>
<tr>
<td>0</td>
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<tr>
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<tr>
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<tr>
<td>30</td>
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</tbody>
</table>

Dimensions

- **Flow:** 1 1/2
- **13/32**
- **4 1/32 APPROX.**

Ordering Information

- **204S - 3200 - 2**

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<table>
<thead>
<tr>
<th>Seals</th>
<th>Drain</th>
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<tbody>
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<td>Blank</td>
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<tr>
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<th>Drain</th>
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<tbody>
<tr>
<td>Fluorocarbon</td>
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<tr>
<td>FDA Buna-N</td>
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<table>
<thead>
<tr>
<th>Elements</th>
<th>Drain</th>
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<tbody>
<tr>
<td>20 Micron</td>
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<td>1</td>
</tr>
<tr>
<td>5 Micron</td>
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<tr>
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<table>
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<th>Drain</th>
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<tbody>
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<td>2</td>
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<table>
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<tbody>
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<td>Blank</td>
</tr>
<tr>
<td>FDA Buna-N</td>
<td></td>
</tr>
</tbody>
</table>
```
STAINLESS STEEL COALESCING FILTERS: 204S-3209 Series

Features
• NACE MR0175 Compliant
• 316 SS housing and internal components
• Removes more than 99.95% of oil and dirt from air lines
• Threaded bowl and element retainer for easy maintenance
• Bowl seal held captive
• 0.3 micron element standard; 0.01 available for high purity applications
• Now available with carbon elements
• Manual or automatic drains
• 1 ounce bowl capacity

Operating Specifications
Maximum Pressure: 250 PSI
Maximum Temperature: 200°F

Replacement Parts

<table>
<thead>
<tr>
<th>Elements</th>
<th>0.3 Micron</th>
<th>0.01 Micron</th>
<th>Carbon</th>
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<tbody>
<tr>
<td></td>
<td>23543</td>
<td>23592</td>
<td>23758</td>
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Bowl Kits w/Drains

<table>
<thead>
<tr>
<th></th>
<th>Manual Drain</th>
<th>Impulse Drain</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>23533SS</td>
<td>23534SS</td>
</tr>
</tbody>
</table>

Materials of Construction
Head: 316 Stainless Steel
Bowl: 316 Stainless Steel
Whirl Disc: 316 Stainless Steel
Element Retainer: Polypropylene
Element: Borosilicate Glass Fiber
Seals: Fluorocarbon
Drain: 316 Stainless Steel (Manual & Impulse)

Flow Characteristics

Data represents flows through saturated elements at 2 PSI pressure drop, the maximum permissible for proper coalescing action.

Flow Rate: SCFM
Secondary Pressure: PSIG

Ordering Information

204S - 3209 - 2

Options

<table>
<thead>
<tr>
<th>Drain</th>
<th>Manual (Standard)</th>
<th>Blank</th>
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</thead>
<tbody>
<tr>
<td>Impulse (Automatic)</td>
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Seals

<table>
<thead>
<tr>
<th>Fluorocarbon</th>
<th>Blank</th>
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</thead>
</table>

Pipe Size

| 1/8" | 2   |
| 1/4" | 2   |
STAINLESS STEEL PARTICULATE FILTERS: 205S-1200 Series

Features
- NACE MR0175 Compliant
- 316 SS housing and internal components
- Excellent water and particulate removal efficiency
- Threaded bowl and element retainer for easy maintenance
- Bowl seal held captive
- 20 micron element standard; 10 & 3 micron elements available
- Manual or automatic drains
- Whirl disc design creates high centrifugal force with minimal pressure drop
- 8 ounce bowl capacity
- High flow: 25 SCFM @ 80 PSI ΔP

Materials of Construction
- Head: 316 Stainless Steel
- Bowl: 316 Stainless Steel
- Whirl Disc: 316 Stainless Steel
- Stud: 316 Stainless Steel
- Element Retainer: 316 Stainless Steel
- Seals: Fluorocarbon (FDA Approved Buna available)
- Element: Phenolic Impregnated Cellulose
- Drain: Manual: 316 Stainless Steel
- Float: Acetal and Stainless Steel
- Impulse: 316SS & Fluorocarbon (FDA Approved Buna available)

Accessories
- 20 Micron: 21205
- 10 Micron: 21036
- 3 Micron: 21037

Operating Specifications
- Bowl Capacity: 8 oz.
- Pressure Rating: 250 PSIG
- Temperature Rating: 0 - 200°F
- Ports: 1/2” NPT

Flow Characteristics

<table>
<thead>
<tr>
<th>OPERATING PRESSURE</th>
<th>PRESSURE DROP, PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>40</td>
<td>1</td>
</tr>
<tr>
<td>80</td>
<td>2</td>
</tr>
<tr>
<td>120</td>
<td>3</td>
</tr>
</tbody>
</table>

Dimensions

Ordering Information
- 205S - 1200 - 4

Options
- Elements
  - 20 Micron: 0
  - 10 Micron: 1
  - 3 Micron: 2

- Seals
  - Fluorocarbon: Blank
  - FDA Buna-N: X

- Drain
  - Manual: Blank
  - Impulse: D
STAINLESS STEEL COALESCING FILTERS: 205S-1209 Series

Features

- All metal components are 316 SS
- Removes liquid and sub-micron solids
- 0.3 Micron Element removes 99.97% of dirt and oil from air
- 0.01 Micron Element removes 99.995% of dirt and oil from air
- Also available with carbon elements
- Available with manual, float or impulse drain
- Threaded bowl for ease of maintenance
- 8 ounce bowl capacity

Materials of Construction

Head: 316 Stainless Steel
Bowl: 316 Stainless Steel
Whirl Disc: 316 Stainless Steel
Stud: 316 Stainless Steel
Element Retainer: 316 Stainless Steel
Seals: Fluorocarbon (FDA Approved Buna available)

Operating Specifications

Bowl Capacity: 8 oz.
Pressure Rating: 250 PSIG
Temperature Rating: 0 - 200°F
Ports: 1/2” NPT

Flow Characteristics

Bowl Capacity: 8 oz.
Pressure Rating: 250 PSIG
Temperature Rating: 0 - 200°F
Ports: 1/2" NPT

Accessories

Elements:
- 0.3 Micron: 21720
- 0.01 Micron: 21762
- Carbon: 21756

Ordering Information

205S - 1209 - 4

<table>
<thead>
<tr>
<th>Elements</th>
<th>Seals</th>
<th>Drain</th>
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</thead>
<tbody>
<tr>
<td>0.3 Micron</td>
<td>Fluorocarbon, FDA Buna-N</td>
<td>Manual, Blank</td>
</tr>
<tr>
<td>0.01 Micron</td>
<td>Blank</td>
<td>Impulse, D</td>
</tr>
<tr>
<td>Carbon</td>
<td>X</td>
<td>Float, F</td>
</tr>
</tbody>
</table>

Dimensions

2 1/2 x 6 9/16 APPROX.
STAINLESS STEEL REGULATORS: 101S-3000 Series

Features
- NACE MR0175 Compliant
- All metal components are 316 SS
- Available with stainless steel or acetal bonnet with locking ring
- Diaphragm design for greater accuracy, responsiveness and repeatability
- Fluorocarbon seals
- Available in relieving or non-relieving
- Relieving bonnet is designed without relief hole for greater protection in harsh environments

Materials of Construction
- **Body:** 316 Stainless Steel
- **Bonnet:** 316 Stainless Steel (111 Series); Acetal (101 Series)
- **Adjustment Screw:** 316 Stainless Steel
- **Poppet:** Fluorocarbon
- **Poppet Seat:** 316 Stainless Steel
- **Diaphragm Assembly:** Fluorocarbon w/ 316 SS Components
- **Seals:** Fluorocarbon
- **Springs:** 316 Stainless Steel

Accessories
- **Mounting Nut:** 13133SS (101); 13025SS (111)

Operating Specifications
- **Maximum Pressure:** 250 PSI
- **Maximum Temperature:** 200°F

Replacement Parts
- **Repair Kit**
  - Relieving: 13532SS
  - Non Relieving: 13533SS

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

Ordering Information
- **101S-3000-2**
- **Bonnet**
  - Acetal: 316 SS
  - 1
- **Pipe Size**
  - 1/8": 1
  - 1/4": 2
- **Gauge Parts**
  - 0
  - 1
- **Pressure Range**
  - 10-130 PSI Relieving: 00
  - 10-130 PSI 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
  - 1-10 Relieving: 08
  - 1-10 Non-Relieving: 09
- **Seals**
  - Blank: X
  - FDA Buna-N: P
- **Options**
  - Blank: T
  - Preset: Blank
  - Tamper Resistant (Acetal Bonnet): T
  - Non-Adjustable Set Screw (SS Bonnet): T

Dimensions
- 2 3/4
- 3 1/4 APPROX
- 1 7/16
- 13/32
STAINLESS STEEL PRESSURE REGULATORS: 104S-1000 Series

Features
- All metal components are 316 SS
- Diaphragm style regulator for minimal hysteresis and greater responsiveness
- Relieving and non-relieving versions available
- Gauge port plugs included
- FDA approved seals available

Accessories
Regulator Kits:
- Relieving: 11531SS
- Relieving (20-250 PSI): 11538SS
- Non-Relieving: 11532SS
- Non-Relieving (20-250 PSI): 11539SS

Panel Nut: 11194SS
Bracket: 11123SS

Operating Specifications
Gauge Ports: two 1/8” NPT (Standard)
Maximum Inlet Pressure: 250 PSIG
Temperature Rating: 0-175°F
Relief Port: M5
Inlet/Outlet Ports: 1/2” NPT

Materials of Construction
Body: 316 Stainless Steel
Bonnet: 316 Stainless Steel
Spring Guide: 316 Stainless Steel
Diaphragm Gasket: 316 Stainless Steel
Valve Seat: 316 Stainless Steel
Poppet Valve Spring: 316 Stainless Steel
Seals: Fluorocarbon (FDA Approved Buna available)

Flow Characteristics

Dimensions

Ordering Information
104S - 1000 - 4

Pressure Range
- 10-130 PSI Relieving: 00
- 10-130 PSI Non-Relieving: 01
- 20-250 Relieving: 06
- 20-250 Non-Relieving: 07

Options
- Attachment Parts:
  - Gauge: G
- Seals:
  - Fluorocarbon: Blank X

Flow Rate: SCFM
Regulator Pressure: PSIG
Primary Pressure: 120 PSIG
**STAINLESS STEEL FILTER/REGULATORS: B01S-3200 Series**

### Features
- NACE MR0175 Compliant
- All metal components are 316 SS
- Available with stainless steel or acetal bonnet with locking ring
- Diaphragm design for greater accuracy, responsiveness and repeatability
- Fluorocarbon seals
- Threaded bowl and element retainer for easy maintenance
- Bowl seal held captive
- Manual or automatic drains

### Operating Specifications
- **Maximum Pressure:** 250 PSI
- **Maximum Temperature:** 200°F

### Materials of Construction
- **Body:** 316 Stainless Steel
- **Bonnet:** 316 Stainless Steel (C01 Series); Acetal (B01 Series)
- **Adjustment Screw:** 316 Stainless Steel
- **Poppet:** Fluorocarbon
- **Poppet Seat:** 316 Stainless Steel
- **Diaphragm Assembly:** Fluorocarbon w/ 316 SS Components
- **Seals:** Fluorocarbon
- **Springs:** 316 Stainless Steel
- **Bowl:** 316 Stainless Steel
- **Whirl Disc:** 316 Stainless Steel
- **Element Retainer:** Polypropylene
- **Element:** Phenolic/Melamine Impregnated Cellulose
- **Drain:** 316 Stainless Steel (Manual & Impulse)

### Accessories
- **Mounting Nut:** 13133SS (C01); 13025SS (B01)

### Replacement Parts

<table>
<thead>
<tr>
<th>Repair Kit</th>
<th>Relieving</th>
<th>13532SS</th>
<th>Non-Relieving</th>
<th>13533SS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elements</td>
<td>20 Micron</td>
<td>23004</td>
<td>10 Micron</td>
<td>23025</td>
</tr>
<tr>
<td></td>
<td>5 Micron</td>
<td>23040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bowl Kits</td>
<td>Manual Drain</td>
<td>23533SS</td>
<td>Impulse Drain</td>
<td>23534SS</td>
</tr>
</tbody>
</table>

### Flow Characteristics

**PRIMARY PRESSURE: 120 PSIG**

**FLOW RATE: SCFM**

### Ordering Information

**B01S - 3200 - 2**

#### OPTIONS

<table>
<thead>
<tr>
<th>Seals</th>
<th>Blank</th>
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<tbody>
<tr>
<td>Drain</td>
<td>Manual (Standard)</td>
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<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>1/8”</th>
<th>1/4”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elements</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>10 Micron</td>
<td>2</td>
</tr>
</tbody>
</table>
Features

- NACE MR0175 Compliant
- Available with stainless steel or acetal bonnet with locking ring
- Diaphragm design for greater accuracy, responsiveness and repeatability
- Fluorocarbon seals
- Excellent water and particulate removal efficiency
- Threaded bowl and element retainer for easy maintenance
- Bowl seal held captive
- 0.3 micron element standard; 0.01 available for high purity applications
- Now available with Carbon elements
- Manual or automatic drains

Operating Specifications

Maximum Pressure: 250 PSI
Maximum Temperature: 200°F

Replacement Parts

<table>
<thead>
<tr>
<th>Repair Kit</th>
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<th>13532SS</th>
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</thead>
<tbody>
<tr>
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<td>Non-Relieving</td>
<td>13533SS</td>
</tr>
<tr>
<td>Elements</td>
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</tr>
<tr>
<td></td>
<td>0.01 Micron</td>
<td>23751</td>
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<tr>
<td></td>
<td>Carbon</td>
<td>23758</td>
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Bowl Kits w/Drains

| Manual Drain | 23533SS |
|              |        |
| Impulse Drain| 23534SS |

Materials of Construction

Body: 316 Stainless Steel
Bonnet: 316 Stainless Steel (C01 Series); Acetal (B01 Series)
Adjustment Screw: 316 Stainless Steel
Poppet: Fluorocarbon
Poppet Seat: 316 Stainless Steel
Diaphragm Assembly: Fluorocarbon w/ 316 SS Components
Seals: Fluorocarbon
Springs: 316 Stainless Steel
Bowl: 316 Stainless Steel
Whirl Disc: 316 Stainless Steel
Element Retainer: Polypropylene
Element: Borosilicate Glass Fiber
Drain: 316 Stainless Steel (Manual & Impulse)

Accessories

Mounting Nut: 13133SS (B01); 13025SS (C01)

Flow Characteristics

Data represents flows through saturated elements at 2 PSI pressure drop, the maximum permissible for proper coalescing action.

Ordering Information

C01S - 3209 - 2

OPTIONS

Seals

Fluorocarbon Blank X
FDA Buna-N Blank X

Drain

Manual (Standard) Blank X
Impulse (Automatic) Blank X

Pipe Size

1/8" 1
1/4" 2
3/8" 3
1/2" 4
3/4" 5
1" 6
2" 7
3" 8

B01S-C01S-3209-2
B01S-C01S-3209-1

Flow Rate: SCFM
Secondary Pressure: PSIG
Coalescing Filter

Maximum Recommended Flow Rates
STAINLESS STEEL PARTICULATE FILTER REGULATORS: **CO5S-1200 Series**

**Features**
- All metal components are 316 SS
- Threaded bowl for ease of maintenance
- Filter and regulator consolidated into one assembly
- Reduces footprint of air prep assembly
- Manual, float or impulse drains available
- FDA approved seals available

**Operating Specifications**
- **Bowl Capacity:** 8 oz.
- **Maximum Pressure:** Metal Bowls: 250 PSI
- **Maximum Temperature:** Metal Bowls: 200°F
- **Ports:** 1/2” NPT

**Materials of Construction**
- **Body:** 316 Stainless Steel
- **Bonnet:** 316 Stainless Steel
- **Bowl:** 316 Stainless Steel
- **Spring Guide:** 316 Stainless Steel
- **Diaphragm Gasket:** 316 Stainless Steel
- **Valve Seat:** 316 Stainless Steel
- **Poppet Valve Spring:** 316 Stainless Steel
- **Whirl Disc:** 316 Stainless Steel
- **Seals:** Fluorocarbon (FDA Approved Buna available)
- **Element:** Phenolic Impregnated Acrylic Fibers
- **Drain:** Manual: 316 SS
- **Float:** Acetal and Stainless Steel
- **Impulse:** 316SS & Fluorocarbon (FDA Approved Buna available)

**Accessories**
- **Elements:**
  - 20 Micron: 21205
  - 10 Micron: 21036
  - 3 Micron: 21037
- **Regulator Kits:**
  - Relieving: 11531SS
  - Relieving (20-250 PSI): 11538SS
  - Non-Relieving: 11532SS
  - Non-Relieving (20-250 PSI): 11539SS
- **Panel Nut:** 11194SS
- **Bracket:** 11123SS

**Flow Characteristics**

**Dimensions**

**Ordering Information**

**CO5S - 1200 - 4**

**Pressure Range**
- 10-130 PSI Relieving 00
- 10-130 PSI Non-Relieving 01
- 20-250 Relieving 06
- 20-250 Non-Relieving 07

**OPTIONS**

**Attachment Parts**
- Bracket: B

**Seals**
- Fluorocarbon FDA Buna-N: X
- Blank: 

**Drain**
- Manual: Blank D

**Elements**
- 20 Micron: 0
- 10 Micron: 1
- 3 Micron: 2
Check Valves

Lightweight aluminum O-Check® features a dilating o-ring as the only moving part. Quick to open, quick to close, O-Check ‘outflows’ the competition, will last millions of cycles (factory tests to 50 million cycles show no discernible wear) and always provides positive sealing (no bubble leakage). Standard NPTF sizes 1/8", 1/4", 3/8", 1/2" and 3/4" and orifices available for fixed flow control applications.

Flow Controls

Right angle flow controls incorporate O-Check as the bypass valve. MRFC permits full free flow in one direction, accurately metered flow in opposite direction. Standard metering needle design includes compound needle taper of 5° and 15° and fine adjustment stem threads (MRFC 1/4 for example is 1/4"- 36). Right angle design eliminates the need for pipe elbow fitting normally used to make 90° turn at cylinder port. Standard NPTF sizes 1/8", 1/4", 3/8", 1/2" and 3/4". Adjustment knobs and panel mounting available (NPTF sizes 1/8", 1/4" and 3/8" only). Optional swivel connector allows “direct” cylinder mounting and 360° rotation for ease of installation and space saving (NPTF sizes 1/8", 1/4", 3/8", and 1/2" only).

Benefits

• Compact design adds to the appearance of any type of equipment.
• All valves are individually tested before they leave the factory.
• Tests up to 50 million cycles show no discernible wear and still perform “bubble-tight.”

Specifications

Maximum Operating Pressure: 250 psi
Operating Temperature Range: –40° - +225°F.
Standard O-Ring Material: Buna-N (Fluorocarbon available on 1/8", 1/4" and 3/8” NPTF models)
Standard Valve Body Material: Aluminum
Standard Needle Material: Brass
Standard Swivel Connector Material: Zinc-Plated Steel

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.
CHECK VALVES: O-CHECK® MCV Series

FLOW CONTROLS: RIGHT ANGLE MRFC Series

Flow Charts

Ordering Information

<table>
<thead>
<tr>
<th>SERIES</th>
<th>CODE</th>
<th>NPFT</th>
<th>OPTIONS</th>
<th>CODE</th>
<th>O-RINGS</th>
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</thead>
<tbody>
<tr>
<td>Right Angle Flow Control</td>
<td>MRFC</td>
<td>1/8 to 3/8 Orifice</td>
<td>Knob, Panel Mount</td>
<td>K</td>
<td>Buna - N (Standard)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/8 Orifice</td>
<td>Knob &amp; Panel Mt, Swivel</td>
<td>P</td>
<td>Buna - N (Standard)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1/2 &amp; 3/4 Orifice</td>
<td>Swivel Knob, Swivel</td>
<td>S</td>
<td>Buna - N (Only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>0-Check</td>
<td>MCV</td>
<td>1/3-3/8 Orifice</td>
<td>1/32 Orifice, 1/16 Orifice, 3/32 Orifice, 1/8 Orifice</td>
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<td></td>
<td>063</td>
<td>Buna - N (Only)</td>
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</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>125</td>
<td></td>
</tr>
</tbody>
</table>

*Contact Factory for other sizes
Designed to be placed between the valve and cylinder in a pneumatic circuit, Monnier’s Air/Oil reservoirs provide the predictable, even cylinder actuation of a hydraulic system in a low cost pneumatic circuit.

**Reservoir Function**
Compressed air enters the top inlet port and forces the hydraulic fluid out of the reservoir and into the downstream cylinder. Pressure is maintained at a 1:1 ratio.

**Features**
- Available with aluminum or polycarbonate bowls
- L brackets and stud mount brackets available
- Available in capacities from 12 to 70 cubic inches (6.65 to 40.37 ounces)

**Materials of Construction**
- **Base, Head, Base Nut:** Machined Aluminum
- **Bowl:** Polycarbonate or Machined Aluminum
- **Stud:** Plated Steel or Brass
- **Baffle Plate:** Aluminum
- **Seals:** Buna-N (Fluorocarbon Available)

**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Height</th>
<th>Capacity (Approx.)</th>
</tr>
</thead>
<tbody>
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<td>2-1000</td>
<td>2 5/8</td>
<td>11/16</td>
<td>6 5/64</td>
</tr>
<tr>
<td>2-1220</td>
<td>2 5/8</td>
<td>11/16</td>
<td>8 3/8</td>
</tr>
<tr>
<td>2-1750</td>
<td>7/8</td>
<td>3 3/4</td>
<td>9 1/8</td>
</tr>
<tr>
<td>2-1950</td>
<td>7/8</td>
<td>3 3/4</td>
<td>9 5/8</td>
</tr>
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</table>
### Ordering Information

<table>
<thead>
<tr>
<th>Capacity Cu. In.</th>
<th>Capacity Oz.</th>
<th>Bowl Type</th>
<th>Mounting Bracket</th>
<th>Bowl Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Poly-</td>
<td>Angle Bracket</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>carbonate</td>
<td>Stud Mount</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>6.65</td>
<td>2-1000</td>
<td>11038</td>
<td>21561</td>
</tr>
<tr>
<td>20</td>
<td>11.08</td>
<td>2-1020</td>
<td>11520</td>
<td>21532</td>
</tr>
<tr>
<td>45</td>
<td>24.93</td>
<td>2-1750</td>
<td>15037</td>
<td>24555</td>
</tr>
<tr>
<td>70</td>
<td>40.37</td>
<td>NA</td>
<td>2-1970</td>
<td>24421</td>
</tr>
</tbody>
</table>

**Caution**

Bowl guards are recommended on all polycarbonate bowl filters! All bowl guards are made of heavy-duty stainless steel.

**Warning**

Polycarbonate bowls can be damaged and may fail if they are exposed to or come in contact with solvents, strong alkalies, fire resistant and/or synthetic compressor lubricants.

**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.
ACCESSORIES: Lockout Valves

**Features**
- Available in 1/8” through 1/2” NPT
- Relieve downstream pressure in closed position
- Can be locked in closed position for safety purposes

**Dimensions**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>C: 15/16 D: 1-9/16</td>
<td>C: 1-3/16 D: 1-15/16</td>
</tr>
</tbody>
</table>

**Materials of Construction**
- Body: Machined Aluminum
- Slide: Brass
- Seals: Buna-N (Fluorocarbon Available)
- Screws: Black oxide coated screws

**Ordering Information**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>1/8”</th>
<th>1/4”</th>
<th>3/16”</th>
<th>1/2”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anodizing</td>
<td>None</td>
<td>Blue</td>
<td>Black</td>
<td>Clear</td>
</tr>
<tr>
<td>20-501</td>
<td>A1</td>
<td>A2</td>
<td>A3</td>
<td>A4</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>A5</td>
<td>Yellow</td>
<td>A6</td>
</tr>
<tr>
<td></td>
<td>Gold</td>
<td>A7</td>
<td>Purple</td>
<td>A8</td>
</tr>
</tbody>
</table>

ACCESSORIES: Drains

**Float Drains**
Monnier float drains automatically discharge liquid from filters, drip legs and tanks.

**Features**
- Stainless steel mesh screen protects float mechanism from particulate
- 1/4” or 1/2” female NPT inlet
- 1/8” NPT outlet
- Manual override
- Clear anodized housing standard

**Materials of Construction**
- Body: Anodized Machined Aluminum
- Float: Acetal and Stainless Steel
- Seals: Buna-N (Fluorocarbon Available)

**Ordering Information**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>1/4”</th>
<th>1/2”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anodizing</td>
<td>Clear (Standard)</td>
<td>Blank</td>
</tr>
<tr>
<td>20-401</td>
<td>Blue</td>
<td>A1</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>A2</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>A4</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>A5</td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>A6</td>
</tr>
<tr>
<td></td>
<td>Gold</td>
<td>A7</td>
</tr>
<tr>
<td></td>
<td>Purple</td>
<td>A8</td>
</tr>
<tr>
<td>Seals</td>
<td>Buna-N</td>
<td>Blank</td>
</tr>
<tr>
<td></td>
<td>Fluorocarbon</td>
<td>V</td>
</tr>
</tbody>
</table>

**Impulse Drains**
Monnier impulse drains automatically discharge liquid from filters, drip legs and tanks.

**Features**
- 1/8” Male NPT inlet
- Barb fitting for 3/16” ID tube outlet
- Clear anodized housing standard

**Materials of Construction**
- Body: Anodized Machined Aluminum
- Internals: Aluminum and Brass
- Seals: Buna-N (Fluorocarbon Available)

**Ordering Information**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>1/8”</th>
<th>1/4”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anodizing</td>
<td>Clear (Standard)</td>
<td>Blank</td>
</tr>
<tr>
<td>20-101</td>
<td>Blue</td>
<td>A1</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>A2</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>A4</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>A5</td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>A6</td>
</tr>
<tr>
<td></td>
<td>Gold</td>
<td>A7</td>
</tr>
<tr>
<td></td>
<td>Purple</td>
<td>A8</td>
</tr>
<tr>
<td>Seals</td>
<td>Buna-N</td>
<td>Blank</td>
</tr>
<tr>
<td></td>
<td>Fluorocarbon</td>
<td>V</td>
</tr>
</tbody>
</table>
**ACCESSORIES:** **Mounting**

**BONNET MOUNTING TYPE**

For units with: PolyCarbonate Bonnets
Series 101-3000, 104-3100 and B01-3000

For units with: Aluminum Bonnets
Series 111-3000, 102-3000, C01-3000, 106-3100 and 114-3100

For use with 105/106-1000 Series Regulators

For use with 102/103-1000 and 117-4000/5000 PS Series Regulators

**ACCESSORIES:** **Pressure Drop Indicator**

The Monnier pressure drop indicator is available as a separate device to measure the pressure drop across any pneumatic equipment.

**Operating Specifications**

- Ports: 1/8” Male NPT
- Part#: 21540

**PIECE MOUNTING TYPE**

For use with: 1000/4000/5000 Series

Part# 11536
Panel Nut Only - Part #13133
This is a zinc-plated steel bracket and aluminum panel nut. Panel nut may be anodized in any of eight colors.

Part# 13534
Panel Nut Only - Part #13025
This is a zinc-plated steel bracket and aluminum panel nut. Panel nut may be anodized in any of eight colors.

**ANGULAR MOUNTING TYPE**

For use with: 1000/2000/3000 Series

Part# 11038: Use with 1000/2000/3000 Series

Part# 15037: Use with 4000/5000 Series

Note: Filters and lubricators must be ordered with two 1/4-20 mounting holes on top surfaces. Add suffix “MH” to model number.

**STUD MOUNTING TYPE**

For use with: 1000/4000/5000 Series

Part# 11520: For 1/4”, 3/8”, 1/2”, 3/4”, and 1” (Aluminum construction)
These mounting brackets are designed to fit all regulators with 1/4” gauge ports. Remove the pipe plug in the back of the regulator and insert stud.

Notes:

1. For filters and lubricators, order with 1/4” NPT mounting holes on side surface. Add suffix “MS” to model number.

2. Cannot use “MH” or “MS” option with miniature lubricators. Could use pipe mounting type bracket #11543.
Each component is engineered to connect easily without the use of inserts and special tools. Standard buttonhead screws are used to join components, combined with the new modular design ensures that Monnaire Modulars™ offer optimum stability and strength.

Components are available as preassembled modular FRL assemblies or in an unlimited combination of filters, regulators, lubricators and accessories. Each component is available with 3 bowl options – polycarbonate with guard (standard), metal bowl or with the CircleView bowl, allowing fluid to be viewed 360 degrees around the bowl. Each bowl is available with automatic, flexible or manual drain options.

A manual shut off with slide design is available. The off position relieves downstream pressure to all components allowing for service or repair.
Drain Options

**Features**
- O-ring on bowl
- Integral mounting holes
- Bayonet bowl guards
- Diverter block
- Simple manifold connections

**Benefits**
- Mounts without brackets
- Quick on/off bowls
- Regulator mounts any direction
- Build any configuration

**Advantages**
- More stable mounting
- Faster turns in maintenance
- Flexible assembly
- Eliminates frustration

**Maximum Pressure**
- Pressure in polycarbonate bowls: 150 psi
- Pressure in metal bowls: 200 psi
- Pressure in circle view bowls: 250 psi

**Maximum Temperature**
- Temperature in polycarbonate bowls: 120°F
- Temperature in metal bowls: 120°F
- Temperature in circle view bowls: 150°F

**Drains**
Add Suffix “D” for impulse drain or Suffix “F” for float drain.

**Caution**
Bowl guards are recommended on all polycarbonate bowl filters! All bowl guards are made of heavy-duty stainless steel.

**Warning**
Polycarbonate bowls can be damaged and may fail if they are exposed to or come in contact with solvents, strong alkalies, fire resistant and/or synthetic compressor lubricants.

**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.
**Application**

Primary air filters are designed to separate liquid water and rust, scale and debris from the air lines. They should be installed upstream of the regulator or lubricator to prevent contamination from reaching other components. Water is removed mechanically by the deflector which causes the air to move in a swirling motion. The condensed water droplets are then centrifugally impacted upon the I.D. of the bowl and migrate down past the quiet zone baffle to the water sump. Dry air passes through the sintered element utilizing depth filtration and removes debris down to the specified micron size.

**Features**

- Two convenient sizes
- 5 micron sintered elements standard
- Can be installed as modular or individual unit
- Includes screws and o-rings for modular connection
- Manual or automatic drains
- Polycarbonate bowl standard
- Optional CircleView sight bowl
- Bowl seal held captive

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**22 SERIES FILTERS**

3.8-OUNCE CAPACITY  
PIPE SIZE: 1/4, 3/8, 1/2”

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>FLOW CAPACITY</th>
<th>SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCARBONATE W/BOWL GUARD</td>
<td>222-2100-2</td>
<td>222-2300-2</td>
<td>222-2000-2</td>
</tr>
<tr>
<td>3/8”</td>
<td>222-2100-3</td>
<td>222-2300-3</td>
<td>222-2000-3</td>
</tr>
<tr>
<td>1/2”</td>
<td>222-2100-4</td>
<td>222-2300-4</td>
<td>222-2000-4</td>
</tr>
</tbody>
</table>

**32 SERIES FILTERS**

8.5-OUNCE CAPACITY  
PIPE SIZE: 1/2, 3/4”

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>FLOW CAPACITY</th>
<th>SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCARBONATE W/BOWL GUARD</td>
<td>232-1100-4</td>
<td>232-1300-4</td>
<td>232-1000-4</td>
</tr>
<tr>
<td>3/4”</td>
<td>232-1100-6</td>
<td>232-1300-6</td>
<td>232-1000-6</td>
</tr>
</tbody>
</table>

**Note:** Flow ratings based on 100 PSIG Inlet and 5 PSID.
**Application**

The coalescing filter is utilized when the cleanest air possible is required. This type of filter removes water and oil aerosols. Working differently than the particulate filter; oily air enters the element from its center and passes though a field of glass fibers which cause the aerosols to form into heavier-than-air droplets. The droplets grow larger as they pass through the element and gravity drains the oil drops to the sump of the bowl. With the harmful oil varnishes and contaminants that attack seals and gaskets now removed, the valve and cylinder is much less likely to stick. To maximize the life of a coalescing filter it should always be used after a 5 micron filter.

**Features**

- Two convenient sizes
- Cartridge element design
- Inner/outer support cores prevent element from crushing in either flow direction
- Available with manual or automatic drain
- Optional CircleView sight bowl
- Differential pressure indicator standard

**Recommended Uses**

**0.7 Micron Element**, identified by its BLUE drain layer, is a relatively coarse coalescing filter for large amounts of water, rust, pipe scale and hydrocarbons. Excellent filter for environments that have severe contamination. Can be used for lubricated or “dry” systems. Mainline filtration of plant air.

**0.3 Micron Element**, identified by its GREEN drain layer, is a fine filter for cylinders or valves especially when the circuit is being run without lubrication (“dry”). Excellent filters for desiccant or regenerative style filters.

**0.01 Micron Element**, identified by its RED drain layer, is an ultrafine filter for oil free instrumentation air, blow molding, food and drug packaging, electronics applications, and other applications requiring maximum contamination removal.

**Adsorber Element**, identified by its WHITE drain layer, is an adsorbing filter that utilizes activated carbon to deodorize compressed air. Typically, it is used to protect worker environments, food and drug applications and instrumentation for analytical instruments. Life expectancy is approximately 3 months at rated flow.

**Prefilter Option - Suffix “E”**

All models can be equipped with an optional internal prefilter. The prefilter provides additional protection for the fine borosilicate fibers. For most applications, a separate 5 micron particulate filter is not required.
### CircleView Sight Bowl

The Monnaire Modular™ CircleView Sight Bowl utilizes a dual bowl configuration to eliminate the bowl guard or sight glass. This allows the strength and security of an interior metal bowl to be used with the exterior convenience of polycarbonate. Water condensation and contaminants in filter bowls and the oil level in the lubricator bowls can be seen for 360 degrees around the unit. This lowers maintenance cost by allowing easy detection of units that require service.

### Metal Bowl with Sight Glass

<table>
<thead>
<tr>
<th>Element Rating:</th>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>FLOW CAPACITY</th>
<th>SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0.7 Micron</strong></td>
<td>1/4”</td>
<td>222-2107-2</td>
<td>CV = 2.0</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>3/8”</td>
<td>222-2107-3</td>
<td>CV = 2.0</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>1/2”</td>
<td>222-2107-4</td>
<td>CV = 2.0</td>
<td>25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELEMENT RATING:</th>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>FLOW CAPACITY</th>
<th>SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0.3 Micron</strong></td>
<td>1/4”</td>
<td>222-2103-2</td>
<td>CV = 1.2</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>3/8”</td>
<td>222-2103-3</td>
<td>CV = 1.2</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>1/2”</td>
<td>222-2103-4</td>
<td>CV = 1.2</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELEMENT RATING:</th>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>FLOW CAPACITY</th>
<th>SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0.01 Micron</strong></td>
<td>1/4”</td>
<td>222-2101-2</td>
<td>CV = 0.7</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>3/8”</td>
<td>222-2101-3</td>
<td>CV = 0.7</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>1/2”</td>
<td>222-2101-4</td>
<td>CV = 0.7</td>
<td>9</td>
</tr>
</tbody>
</table>

- Flow Ratings based upon 100 PSIG inlet and 1.5 PSID
- .3 Micron element standard
Application

Regulators are used to reduce pressure to a required working pressure. Utilizing optimum pressure can save companies both component life and many dollars in compressed air costs. Regulators consist of a diaphragm, which floats between a main spring (top) and a valve (bottom). By turning the adjustment handle clockwise, the main spring is forced onto the rubber diaphragm which, in turn, is pressed onto the valve stem. When the spring pressure becomes greater than the air pressure in the control chamber below the diaphragm, the valve is forced down and flow begins. As flow continues, the pressure begins to build up and air, via the aspirator tube, fills the control chamber and forces the diaphragm upward. As forces balance, the small spring under the valve piston causes the valve to close. The cycle continues in a balanced process of reducing or increasing flow based upon the downstream pressure.

Features

- Two convenient sizes
- High flow in compact size
- Locking adjustment knob
- Four different pressure ratings available
- Can be installed as modular or individual unit
- Standard output pressure 0-125 PSIG

Internal Check Valve

The 22 and 32 Series are offered with an optional internal check valve. This allows the regulator to function between a valve and cylinder and not be damaged by the constant change in direction of flow. Excellent for applications where multiple pressures are required from one supply valve.
AIR LINE MODULARS: MODULAR REGULATORS

22 SERIES REGULATOR
PIPE SIZE: 1/4, 3/8, 1/2"

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MODEL NUMBER</th>
<th>GAUGE PRESSURE RANGE (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELIEVING</td>
<td>NON-RELIEVING</td>
<td></td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>122-2000-2</td>
<td>0-125</td>
</tr>
<tr>
<td></td>
<td>122-2001-2</td>
<td></td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>122-2000-3</td>
<td>0-60</td>
</tr>
<tr>
<td></td>
<td>122-2001-3</td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>122-2000-4</td>
<td>0-25</td>
</tr>
<tr>
<td></td>
<td>122-2001-4</td>
<td></td>
</tr>
</tbody>
</table>

32 SERIES REGULATOR
PIPE SIZE: 1/2, 3/4"

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MODEL NUMBER</th>
<th>GAUGE PRESSURE RANGE (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELIEVING</td>
<td>NON-RELIEVING</td>
<td></td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>132-1000-4</td>
<td>0-125</td>
</tr>
<tr>
<td></td>
<td>132-1001-4</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>132-1000-6</td>
<td>0-60</td>
</tr>
<tr>
<td></td>
<td>132-1001-6</td>
<td></td>
</tr>
</tbody>
</table>

Flows are at 100 PSIG and a 25% PSID.
**Application**

Usually mounted third in the F-R-L series, the lubricator is designed to inject oil aerosols into the air stream of a pneumatic circuit. As air flows from the regulator, some air is divided from the main orifice and is allowed to flow through the fill under pressure bleed assembly and pressurizes the bowl. This forces oil up in the siphon tube past a flow check and into the integral valve/sight dome. The oil then drops through the valve and into the atomization chamber at a rate that is automatically proportional to the airflow. This virtually eliminates the need for readjustment. The Monnaire Modulars™ lubricator can begin delivering lubrication at flows less than 2 SCFM.

**Features**

- Two convenient sizes
- Lubrication to begin at less than 2 SCFM
- Fillable under pressure
- Tamper-resistant knob standard
- Available with CircleView sight bowl
- Can be mounted as a modular or individual unit
- Button Head Fill option on both sizes
- Atomizing chamber develops longer life aerosols

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### 22 SERIES LUBRICATOR

3.8-OUNCE CAPACITY  
PIPE SIZE: 1/4, 3/8, 1/2”

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>FLOW CAPACITY</th>
<th>SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCARBONATE W/BOWL GUARD</td>
<td>METAL</td>
<td>CIRCLE VIEW</td>
<td>Cₐ</td>
</tr>
<tr>
<td>1/4”</td>
<td>322-2100-2</td>
<td>322-2300-2</td>
<td>322-2000-2</td>
</tr>
<tr>
<td>3/8”</td>
<td>322-2100-3</td>
<td>322-2300-3</td>
<td>322-2000-3</td>
</tr>
<tr>
<td>1/2”</td>
<td>322-2100-4</td>
<td>322-2300-4</td>
<td>322-2000-4</td>
</tr>
</tbody>
</table>

---

### 32 SERIES LUBRICATOR

8.5-OUNCE CAPACITY  
PIPE SIZE: 1/2, 3/4”

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>FLOW CAPACITY</th>
<th>SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCARBONATE W/BOWL GUARD</td>
<td>METAL</td>
<td>CIRCLE VIEW</td>
<td>Cₐ</td>
</tr>
<tr>
<td>1/2”</td>
<td>332-1100-4</td>
<td>332-1300-4</td>
<td>332-1000-4</td>
</tr>
<tr>
<td>3/4”</td>
<td>332-1100-6</td>
<td>332-1300-6</td>
<td>332-1000-6</td>
</tr>
</tbody>
</table>

---

- To order with a manual drain, add suffix “K”.  
- To order with a Quick Fill Button Head, add suffix “Q.”
Application

The integral filter/regulator is a two-station component designed to filter and regulate compressed air when cost and space are a primary concern. As dirty, wet air enters, it immediately flows through the air deflector causing the air to move in a swirling motion. After condensed water is centrifugally removed, air passes through the filter and into the regulator. The high pressure air is systematically reduced via the adjustment spring and valve and exits the housing as clean and dry air that is ready to work at the specified pressure.

Features

- Two convenient sizes
- 5 micron sintered elements standard
- Can be installed as modular or individual unit
- Non-rising knob
- Standard output pressure 0-125 PSIG
- Bowl seals held captive

22 SERIES FILTER/REGULATOR

3.8-OUNCE CAPACITY

PIPE SIZE: 1/4, 3/8, 1/2”

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>SCFM AT REDUCED PRESSURE OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>FR22-2100-2</td>
<td>40</td>
</tr>
<tr>
<td>3/8”</td>
<td>FR22-2100-3</td>
<td>60</td>
</tr>
<tr>
<td>1/2”</td>
<td>FR22-2100-4</td>
<td>60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POLYCARBONATE W/BOOWL GUARD</th>
<th>METAL</th>
<th>CIRCLE VIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCARBONATE W/BOOWL GUARD</td>
<td>METAL</td>
<td>CIRCLE VIEW</td>
</tr>
</tbody>
</table>

32 SERIES FILTER/REGULATOR

8.5-OUNCE CAPACITY

PIPE SIZE: 1/2, 3/4”

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>BOWL TYPE &amp; MODEL NUMBER</th>
<th>SCFM AT REDUCED PRESSURE OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>FR32-1100-4</td>
<td>100</td>
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<tr>
<td>3/4”</td>
<td>FR32-1100-6</td>
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</table>

<table>
<thead>
<tr>
<th>POLYCARBONATE W/BOOWL GUARD</th>
<th>METAL</th>
<th>CIRCLE VIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCARBONATE W/BOOWL GUARD</td>
<td>METAL</td>
<td>CIRCLE VIEW</td>
</tr>
</tbody>
</table>

- See Monnaire Modular™ Regulators for “Flow Characteristics”.
- Flows are at 100 PSIG and a 25% PSID.
Application

Monnier’s Monnaire Modular™ Coalescer/Regulator is a two-station point of use air preparation system designed to provide superior filtration and regulation in one compact housing. Available with four different element choices, the Coalescer/Regulator can be specified to attack and remove the exact type of contamination that is critical to the specific application.

Element Performance Data

Performance of any coalescing filter is in relationship to the velocity of the air passing through (inside to outside) the element. Since velocity and \( \Delta P \) are directly proportional (the higher the pressure the higher the velocity), we must size filters according to the flow at the optimum pressure rather than at maximum velocity to atmosphere. Tests indicate the most effective \( \Delta P \) for removing aerosols and contaminants from an airline is 1.5 PSI or less. This indicates that the filters are capable of flowing much more air than is recommended for maximum contamination removal. In the individual Monnaire Modular™ filter sections of the catalog, we have included the Cv ratings on all our coalescing filters. This allows an exact determination of flow based upon known parameters.

Features

- Cartridge element design
- Inner and outer support cores prevent element from crushing in either flow direction
- Connects to modular design
- Four element grades available

Recommended Uses

**0.7 Micron Element**, identified by its BLUE drain layer, is a relatively coarse coalescing filter for large amounts of water, rust, pipe scale and hydrocarbons. Excellent filter for environments that have severe contamination. Can be used for lubricated or “dry” systems. Mainline filtration of plant air.

**0.3 Micron Element**, identified by its GREEN drain layer, is a fine filter for cylinders or valves especially when the circuit is being run without lubrication (“dry”). Excellent filters for desiccant or regenerative style filters.

**0.01 Micron Element**, identified by its RED drain layer, is an ultrafine filter for oil free instrumentation air, blow molding, food and drug packaging, electronics applications and other applications requiring maximum contamination removal.

**Adsorber Element**, identified by its WHITE drain layer, is an adsorbing filter that utilizes activated carbon to deodorize compressed air. Typically, it is used to protect worker environments, food and drug applications and instrumentation for analytical instruments. Life expectancy is approximately 3 months at rated flow.
AIR LINE MODULARS: MODULAR COALESCING FILTER/REGULATORS

22 SERIES COALESCER/REGULATOR
3.8-OUNCE CAPACITY
PIPE SIZE: 1/4, 3/8, 1/2"

32 SERIES COALESCER/REGULATOR
8.5-OUNCE CAPACITY
PIPE SIZE: 1/2, 3/4"

<table>
<thead>
<tr>
<th>ELEMENT RATING:</th>
<th>SCFM AT 100 PSIG INLET &amp; 1.5 PSID ACROSS THE ELEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCARBONATE</td>
<td>METAL</td>
</tr>
<tr>
<td>1/4&quot; FR22-2107-2</td>
<td>FR22-2307-2</td>
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<td>3/8&quot; FR22-2107-3</td>
<td>FR22-2307-3</td>
</tr>
<tr>
<td>1/2&quot; FR22-2107-4</td>
<td>FR22-2307-4</td>
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<tr>
<td>25</td>
<td>20</td>
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<tr>
<td>60</td>
<td>26</td>
</tr>
<tr>
<td>100</td>
<td>34</td>
</tr>
</tbody>
</table>

Flow Characteristics

Note: To order with prefilter, add suffix “E”.

Flow Characteristics
**AIR LINE MODULARS: MODULAR COMBINATIONS**

### ASSEMBLY OPTIONS

**MODEL CODE EXAMPLE:**

A22-VFRL-2

<p>| C = Coalescer/Regulator Piggyback | D = Diverter Block | E = Diverter Plate | F = Filter | FF = Particulate &amp; Coalescing Filters | L = Lubricators | P = Filter/Regulator Piggyback | R = Regulator | V = Shutoff Valve |</p>
<table>
<thead>
<tr>
<th>SUFFIXES</th>
<th>Description</th>
<th>Suffix</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Impulse Drain</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td>Automatic Float Drain</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>Metal Bowl</td>
<td>M</td>
</tr>
<tr>
<td></td>
<td>CircleView Bowl</td>
<td>C</td>
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</table>

**SHUT OFF-FILTER REGULATOR-LUBRICATOR WITH GAUGE**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MODEL NUMBER</th>
<th>22 SERIES</th>
<th>32 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>A22-VFRL-2</td>
<td>A22-FRL-2</td>
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<tr>
<td>3/8&quot;</td>
<td>A22-VFRL-3</td>
<td>A22-FRL-3</td>
<td>A32-VFRL-6</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>A22-VFRL-4</td>
<td>A22-FRL-4</td>
<td>A32-VFRL-4</td>
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</tbody>
</table>

**SHUT OFF-COALESCER FILTER-REGULATOR WITH GAUGE**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MODEL NUMBER</th>
<th>22 SERIES</th>
<th>32 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>A22-VFFR-2</td>
<td>A22-FFR-2</td>
<td>A32-VFFR-4</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>A22-VFFR-3</td>
<td>A22-FFR-3</td>
<td>A32-VFFR-6</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>A22-VFFR-4</td>
<td>A22-FFR-4</td>
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**SHUT OFF-FILTER/REGULATOR DIVERTER BLOCK-LUBRICATOR WITH GAUGE**

<table>
<thead>
<tr>
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<th>MODEL NUMBER</th>
<th>22 SERIES</th>
<th>32 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>A22-VPDL-2</td>
<td>A22-PDL-2</td>
<td>A32-VPDL-4</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>A22-VPDL-3</td>
<td>A22-PDL-3</td>
<td>A32-VPDL-6</td>
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<tr>
<td>1/2&quot;</td>
<td>A22-VPDL-4</td>
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**SHUT OFF-COALESCE/ REGULATOR-LUBRICATOR WITH GAUGE**

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MODEL NUMBER</th>
<th>22 SERIES</th>
<th>32 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>A22-VCL-2</td>
<td>A22-CL-2</td>
<td>A32-VCL-4</td>
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<tr>
<td>3/8&quot;</td>
<td>A22-VCL-3</td>
<td>A22-CL-3</td>
<td>A32-VCL-6</td>
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<tr>
<td>1/2&quot;</td>
<td>A22-VCL-4</td>
<td>A22-CL-4</td>
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**MODEL CODE EXAMPLE:**

A22-VFRL-2

<table>
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<tr>
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<th>MODEL NUMBER</th>
<th>22 SERIES</th>
<th>32 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>A22-VFRL-2</td>
<td>A22-FRL-2</td>
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</tr>
<tr>
<td>3/8&quot;</td>
<td>A22-VFRL-3</td>
<td>A22-FRL-3</td>
<td>A32-VFRL-6</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>A22-VFRL-4</td>
<td>A22-FRL-4</td>
<td>A32-VFRL-4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MODEL NUMBER</th>
<th>22 SERIES</th>
<th>32 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>A22-VFFR-2</td>
<td>A22-FFR-2</td>
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</tr>
<tr>
<td>3/8&quot;</td>
<td>A22-VFFR-3</td>
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**MODEL CODE EXAMPLE:**

A22-VPDL-2

<table>
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<th>32 SERIES</th>
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</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>A22-VPDL-2</td>
<td>A22-PDL-2</td>
<td>A32-VPDL-4</td>
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<tr>
<td>3/8&quot;</td>
<td>A22-VPDL-3</td>
<td>A22-PDL-3</td>
<td>A32-VPDL-6</td>
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<td>A22-VPDL-4</td>
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**MODEL CODE EXAMPLE:**

A22-VCL-2

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<tr>
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<th>22 SERIES</th>
<th>32 SERIES</th>
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<tbody>
<tr>
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<td>A22-VCL-2</td>
<td>A22-CL-2</td>
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<tr>
<td>3/8&quot;</td>
<td>A22-VCL-3</td>
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<tr>
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<td>A22-VCL-4</td>
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A32-VFRL-4

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<tbody>
<tr>
<td>1/4&quot;</td>
<td>A32-VFRL-4</td>
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**MODEL CODE EXAMPLE:**

A32-VFFR-4

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<th>MODEL NUMBER</th>
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<th>32 SERIES</th>
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</thead>
<tbody>
<tr>
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<td>A32-VFFR-4</td>
<td>A32-FFR-4</td>
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A32-VPDL-4

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<th>32 SERIES</th>
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<tbody>
<tr>
<td>1/4&quot;</td>
<td>A32-VPDL-4</td>
<td>A32-PDL-4</td>
<td>A32-VPDL-6</td>
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<tr>
<td>3/8&quot;</td>
<td>A32-VPDL-6</td>
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**MODEL CODE EXAMPLE:**

A32-VCL-4

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<tr>
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<th>MODEL NUMBER</th>
<th>22 SERIES</th>
<th>32 SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>A32-VCL-4</td>
<td>A32-CL-4</td>
<td>A32-VCL-6</td>
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</tbody>
</table>
### SHUT OFF-FILTER-REGULATOR-DIVERTER BLOCK-LUBRICATOR WITH GAUGE

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>22 Series</strong></td>
<td>W/ Shutoff</td>
</tr>
<tr>
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<td>A22-VFRDL-2</td>
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<tr>
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<td>A22-VFRDL-3</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>A22-VFRDL-4</td>
</tr>
<tr>
<td><strong>22 Series</strong></td>
<td>W/ Shutoff</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>A22-VFDC-2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>A22-VFDC-3</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>A22-VFDC-4</td>
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### SHUT OFF-FILTER-DIVERTER BLOCK COALESCER/REGULATOR WITH GAUGE

<table>
<thead>
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<th>Pipe Size</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>22 Series</strong></td>
<td>W/ Shutoff</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>A22-VFDC-2</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>A22-VFDC-3</td>
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<tr>
<td>1/2&quot;</td>
<td>A22-VFDC-4</td>
</tr>
<tr>
<td><strong>22 Series</strong></td>
<td>W/ Shutoff</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>A22-VFDC-4</td>
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<tr>
<td>3/4&quot;</td>
<td>A22-VFDC-6</td>
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</table>

### SHUT OFF-FILTER/REGULATOR-LUBRICATOR WITH GAUGE

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>22 Series</strong></td>
<td>W/ Shutoff</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>A22-VPL-2</td>
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<tr>
<td>3/8&quot;</td>
<td>A22-VPL-3</td>
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<tr>
<td>1/2&quot;</td>
<td>A22-VPL-4</td>
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<td><strong>22 Series</strong></td>
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<tr>
<td>1/2&quot;</td>
<td>A22-VPL-4</td>
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<td>A22-VPL-6</td>
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### SHUT OFF-FILTER DIVERTER BLOCK REGULATOR-LUBRICATOR WITH GAUGE

<table>
<thead>
<tr>
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<th>Model Number</th>
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<td>W/ Shutoff</td>
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<tr>
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<td>A22-VFDRL-4</td>
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<td>W/ Shutoff</td>
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<tr>
<td>1/2&quot;</td>
<td>A22-VFDRL-4</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>A22-VFDRL-6</td>
</tr>
</tbody>
</table>
**MONNAIRE MODULAR™ T-HANDLE DRIVERS**

For easy assembly or disassembly of Monnaire Modular™ combinations, we recommend T-Handle drivers. For your convenience, we offer both sizes required.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MODEL NUMBER</th>
<th>SIZE RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>TH-22</td>
<td>3.0 mm</td>
</tr>
<tr>
<td>32</td>
<td>TH-32</td>
<td>4.0 mm</td>
</tr>
</tbody>
</table>

**MONNAIRE MODULAR™ PRESSURE SWITCHES**

Monnier’s line of pressure switches is designed for accurate indication that proper system pressure is being achieved. Available in 1/8” or 1/4” threads, it is easily incorporated into an air system using a diverter plate or other manifold. With its rugged housing made from zinc coated steel, Monnier’s pressure switches are designed for industrial multi-million cycle applications. The four pin connector plug is included and contains a key way preventing accidental misconnection. Pressure adjustment is tamper resistant hindering unauthorized changes. It can be wired in either normally open or normally closed configurations and includes a case ground pin.

**SPECIFICATIONS**

- **Contact Rating:** 4 A @ 250 VAC
- **Protection:** IP 65, terminals IP00
- **Maximum Operation:** 200/min
- **Temperature Range:** 0°F to 190°F/-15°C to 85°C
- **Maximum Pressure:** 300 PSI/20 BAR
- **Maximum Voltage:** 250 VAC/200 DC
- **Hysteresis Adjustment:** 15%
- **Connector Material:** Polyamid
- **Diaphragm Material:** Buna N
- **Housing Material:** Zinc Plated Steel

**APPLICATION**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MODEL NO.</th>
<th>PSI</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8”</td>
<td>PS180B-1</td>
<td>4-20</td>
<td>2.5</td>
<td>1.0</td>
<td>3.1</td>
</tr>
<tr>
<td>1/8”</td>
<td>PS180C-1</td>
<td>14-150</td>
<td>2.5</td>
<td>1.0</td>
<td>3.1</td>
</tr>
<tr>
<td>1/4”</td>
<td>PS180B-2</td>
<td>4-20</td>
<td>2.5</td>
<td>1.0</td>
<td>3.1</td>
</tr>
<tr>
<td>1/4”</td>
<td>PS180C-2</td>
<td>14-150</td>
<td>2.5</td>
<td>1.0</td>
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<tr>
<td>METRIC G-TAP</td>
<td>MODEL NO. PSIG 180</td>
<td>PSI</td>
<td>A</td>
<td>B</td>
<td>C</td>
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<td>PSG180B-2</td>
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<td>1.0</td>
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<td>2.3</td>
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**DIMENSIONS**

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<tr>
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<th>MODEL DIA.</th>
<th>HOLE</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
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<td>PN-22</td>
<td>1.31”</td>
<td>1.50”</td>
<td>1-1/4-16</td>
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<tr>
<td>32</td>
<td>PN-32</td>
<td>1.77”</td>
<td>2.05”</td>
<td>1-3/4-16</td>
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</table>
DIVERTER BLOCKS
Designed to give Monnaire Modular™ components total versatility, the diverter block mounts directly inline with the FRL combination. Additional components can then be manifold mounted in a compact manner that doesn’t cause excessive pressure drop. There are two available ports per unit; both are tapered for standard service.

SHUT-OFF VALVE
Features
- Cartridge element design
- Inner and outer support cores prevent element from crushing in either flow direction
- Connects to modular design
- Four element grades available

Monnaire Modular™ Diverter Plates are designed to provide air signals in compact space. Used individually or in combination they can be used with gauges or switches to determine a pressure or ΔP signal.

### MODEL NUMBER

<table>
<thead>
<tr>
<th>SERIES</th>
<th>NPTF</th>
<th>G TAP</th>
<th>PORTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 DB-22</td>
<td>DBG-22</td>
<td>Tapped 1/2&quot; NPTF in and out with two 3/8&quot; NPTF branches.</td>
<td></td>
</tr>
<tr>
<td>32 DB-32</td>
<td>DBG-32</td>
<td>Tapped 3/4&quot; NPTF in and out with two 1/2&quot; NPTF branches.</td>
<td></td>
</tr>
</tbody>
</table>

### MODEL NUMBER

<table>
<thead>
<tr>
<th>SERIES</th>
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<th>G TAP</th>
<th>PORTS</th>
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<tbody>
<tr>
<td>22 V22-2</td>
<td>VG22-2</td>
<td>1/4&quot;</td>
<td></td>
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<tr>
<td>22 V22-3</td>
<td>VG22-3</td>
<td>3/8&quot;</td>
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<tr>
<td>22 V22-4</td>
<td>VG22-4</td>
<td>1/2&quot;</td>
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<tr>
<td>32 V32-4</td>
<td>VG32-4</td>
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<td>32 V32-6</td>
<td>VG32-6</td>
<td>3/4&quot;</td>
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</tbody>
</table>

### MOUNTING BRACKETS

Application: Mounts between two units

<table>
<thead>
<tr>
<th>SERIES</th>
<th>NPTF</th>
<th>G TAP</th>
<th>OUTLET PORTS</th>
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<tbody>
<tr>
<td>22 DP-22</td>
<td>DPG-22</td>
<td>1/8&quot;</td>
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<td>32 DP-32</td>
<td>DPG-32</td>
<td>1/8&quot;</td>
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</table>

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MODEL NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>22 MB-22</td>
<td>.69”</td>
<td>1.06”</td>
<td>1.25”</td>
<td>1-1/4-16</td>
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<tr>
<td>32 MB-32</td>
<td>1.63”</td>
<td>1.20”</td>
<td>1.50”</td>
<td>1-3/4”-16</td>
<td></td>
</tr>
</tbody>
</table>
MONNIER IS PROUD TO BE MADE IN AMERICA!
Custom Solutions

Monnier has become known as the air preparation manufacturer where “custom solutions become standard” because of its extensive expertise in developing application specific products for customers.

The following provides just a few examples of the custom product solutions Monnier has developed:

A: Plunger Actuated Regulator
- Application: Food service
- Requirement: A regulator that provides regulated pressure in relation to the actuation of a lever.
- Solution: A plunger actuated regulator that increases secondary pressure as the plunger is depressed.

B: Natural Gas Filter/Regulator
- Application: Natural gas scrubbers
- Requirement: A filter/regulator capable of flowing natural gas or compressed air in a corrosive environment.
- Solution: A custom black anodized filter/regulator with internals designed to withstand natural gas and its byproducts. The glass filled acetal bonnet offers convenient adjustment while minimizing the susceptibility to chemical attack.

C: Railcar Filters
- Application: Transportation
- Requirement: High flow compressed air filters that can withstand the harsh conditions of railcar service.
- Solution: Custom filters based on the 201-5000 series of particulate filters. The all machined aluminum construction allows them to perform in even the most challenging environments. The depth filtration elements provide a long service life with minimal pressure drop.
D: Regulator/Valve Manifold
- Application: Instrumentation
- Requirement: Helium compatible regulator integrated into valve manifold.
- Solution: Custom cartridge style regulator designed with special “zero leak” internals assembled into custom manifold.

E: Bus/Truck Driver Seat Regulator
- Application: Transportation
- Demands: Accuracy, repeatability, compact size
- Solution: Custom regulator with lower profile bonnet, custom mounting connection, preset to +/- 2 PSIG of the set point.

F: CO2 Beverage Regulator
- Application: Food & Beverage
- Demands: Preset, accurate CO2 regulator to fit preexisting manifold.
- Solution: Miniature regulator with custom manifold mounting interface preset to OEM specifications.

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.