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

**IMPULSE**

The diaphragm in this drain pulses when there is a pressure differential such as a valve cycling or cylinder stroking downstream. This action flexes the diaphragm and allows the filter to drain the entrapped water.

**FLOAT**

The float internal to this drain rises with increased liquid level. When the float rises, it opens a seat area allowing the trapped liquids to drain through the bottom. A manual override can be pushed in the bottom of the drain to unseat the float and allow the liquids to drain.

**MANUAL**

Manual drain valve operation varies with the product family, from Schrader valves in the miniature 3000 series to petcocks in the larger sizes.

**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

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: 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)

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

Dimensions

Ordering Information
204-3000-2

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: 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
**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)

**Dimensions**

- **204-2000-2**

**Ordering Information**

- **PARTICULATE FILTERS: 204-2000 Compact Series**

**Flow Characteristics**

- **204-2000-4**

**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

**Flow Rate, SCFM**

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**Flow Rate, SCFM**

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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

**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)

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

**Flow Characteristics**

**Flow Rate, SCFM**

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**Operating Pressure**

- 204-1000/2000-2
- 205-1000-2
- 204-1000/2000-4
- 205-1000-4

**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

**Dimensions**

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

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

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

**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**

**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

**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
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
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

Ordering Information
201-5000-6

Pipe Size
3/4" 6
1" 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 on side: MS
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)

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)

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

Flow Characteristics

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

Dimensions

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
- Impulse (External): D
- Float (Internal): F

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

Features
- 3.0 Micron element
- High flow with minimal pressure drop
- 1.0 PSI $\Delta P$ 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
- 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 (400/700): 27001
- Float Drain: 20-404
- Differential Indicator (400/700): 27002
- Manual Drain: 27003

Replacement Elements
- 7202: 27000
- 8202: 28000

Ordering Information
- 201-7202-10F

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

Options
- Drain:
  - Manual (Standard)
  - Float
  - Blank F
- Flow:
  - 400 scfm: 7
  - 700 scfm: 8
- Pressure Drop Indicator:
  - No PD: 0
  - Pressure Drop Indicator: 8
- Pipe Size:
  - 1 1/4": 10
  - 1 1/2": 12
  - 2": 16
## Features
- 3.0 Micron element
- High flow with minimal pressure drop
- 1.0 PSI ΔP 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 ΔP 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

## Ordering Information
**201-9202-24F**

### 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

### OPTIONS
**Drain**
- Manual (Standard)
- Blank
- Float

**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.

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<td>7208/8208 Series</td>
<td>19</td>
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<tr>
<td>9208 Series</td>
<td>20</td>
</tr>
</tbody>
</table>

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)

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

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

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

Dimensions

FLOW

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
**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)

**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

**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

**Flow Characteristics**

![Graph showing flow characteristics](image)

**Dimensions**

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

**Ordering Information**

**204-2009-2**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Options</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>
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 w/ Float Drain: 21583
- Metal Bowl Kit: 21580
- Metal Bowl Kit (Polycarbonate/ Trogamid): 21581-P / 21581-T
- Pressure Drop Indicator Assembly: 21542
- Elements: 0.3 Micron: 21720   0.01 Micron: 21762

Dimensions

Ordering Information
- 205-1009-4

Flow Characteristics

[Graph showing relationship between flow rate (SCFM) and pressure drop (PSI) for 205-1009]
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)

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)

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

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
204-1009-4

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 hole on side: MS

- **Sight Levels**
  - Trogamid: T
**COALESCING FILTERS: 204-4009 Heavy Duty Series**

### 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
- **Polycarbonate 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

### Dimensions

### Ordering Information
- **204-4009-6**

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#### 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)

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)

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

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

Dimensions

Ordering Information
204-6209-8

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

Manual Drain
Automatic Drain

Flow Rate: SCFM
Inlet Pressure: PSI

Pipe Size
- 1”  8
- 1 1/4”  10
- 1 1/2”  12
COALESCING FILTERS: 201-7208/8208 Series

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
• 1.5PSI ΔP at 1200 scfm
• Available with manual or float drain

Operating Specifications
Port Sizes: 3"
Theat 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

Pressure Drop Indicator
Without PDI 0
With PDI 8

Pipe Size
3" 24