

**18 Series General Purpose Filter  
 1-1/2" and 2" Port Sizes**

- Protects air operated devices by removing liquid and solid contaminants**
- Highly visible, prismatic liquid level indicator lens**
- Can be disassembled without removal from the air line**
- Optional visual service indicator turns from green to red when the filter element needs to be cleaned or replaced**
- Optional electrical service indicator also available**



**Ordering Information.** Models listed include automatic drain, 40 µm element, metal bowl with sight glass, and PTF threads.

| Port Size | Model Numbers | Flow scfm (dm <sup>3</sup> /s) * | Weight lbs (kg) |
|-----------|---------------|----------------------------------|-----------------|
| 1-1/2"    | F18-B00-A3DA  | 1400 (661)                       | 14.90 (6.76)    |
| 2"        | F18-C00-A3DA  | 1400 (661)                       | 14.65 (6.65)    |

\* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

**Alternative Models**

|   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|
| F | 1 | 8 | - | ★ | ★ | ★ | - | ★ | ★ | ★ | ★ |
|---|---|---|---|---|---|---|---|---|---|---|---|

| Port Size | Substitute |
|-----------|------------|
| 1-1/2"    | B          |
| 2"        | C          |

| Option         | Substitute |
|----------------|------------|
| Not applicable | 0          |

| Service Indicator | Substitute |
|-------------------|------------|
| Without           | 0          |
| With pneumatic    | 1          |
| With electrical   | 4          |

| Threads        | Substitute |
|----------------|------------|
| PTF            | A          |
| ISO Rc taper   | B          |
| ISO G parallel | G          |

| Bowl                   | Substitute |
|------------------------|------------|
| Metal with sight glass | D          |
| Metal                  | M          |

| Element | Substitute |
|---------|------------|
| 5 µm    | 1          |
| 25 µm   | 2          |
| 40 µm   | 3          |
| 100 µm  | 4          |

| Drain           | Substitute |
|-----------------|------------|
| Automatic       | A          |
| Manual 1/4 turn | M          |

**ISO Symbols**

**Auto Drain**
**Manual Drain**

## Technical Data

Fluid: Compressed air  
 Maximum pressure: 250 psig (17 bar)  
 Operating temperature\*: -30° to 175°F (-34° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).  
 Particle removal: 5 µm, 25 µm, 40 µm or 100 µm filter element  
 Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)  
 Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop: 1300 scfm (614 dm³/s) Nominal bowl size: 7 fluid ounce (0.2 liter)

Manual drain connection: Will fit 1/8-27 and 1/8-28 pipe thread.  
 Automatic drain connection: Will fit 1/8-27 and 1/8-28 pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

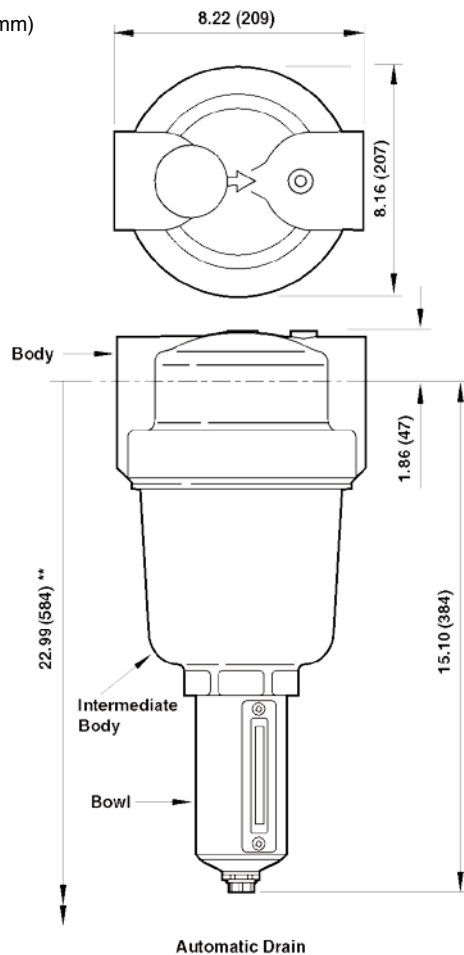
Automatic drain operating conditions (float operated):  
 Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)  
 Bowl pressure required to open drain: Less than 3 psig (0.2 bar)  
 Minimum air flow required to close drain: 2 scfm (1 dm³/s)  
 Manual operation: Depress pin inside drain outlet to drain bowl

## Materials

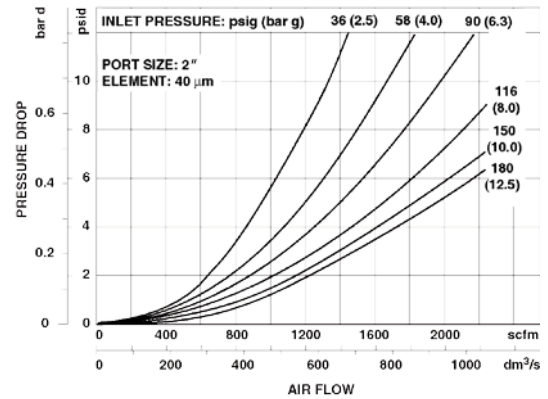
- Body: Aluminum
- Intermediate body: Aluminum
- Bowl: Aluminum
- Metal bowl liquid level indicator: Transparent nylon
- Filter element: Sintered bronze
- Elastomers: Neoprene and nitrile

An automatic drain is a two-way valve, which will close when the system is pressurized. The drain opens when the float rises due to accumulated liquid and on depressurization.

All Dimensions in Inches (mm)



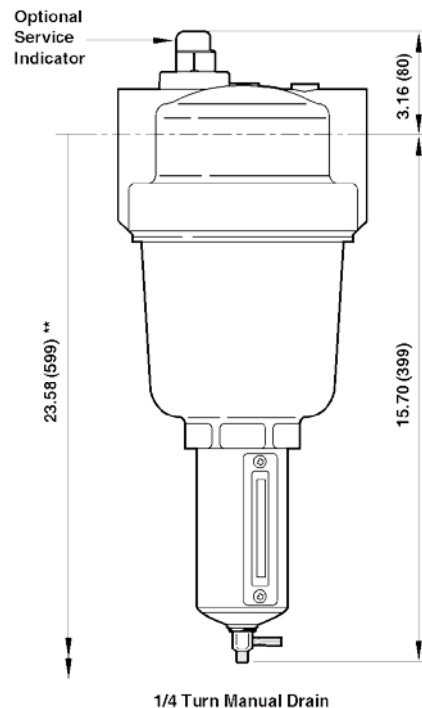
## Typical Performance Characteristics



## Service Kits

| Item                  | Type                | Part Number |
|-----------------------|---------------------|-------------|
| Service kit           | Seal & Gasket       | 5945-50     |
| Replacement elements  | 5 µm                | 5882-11     |
|                       | 25 µm               | 5882-12     |
|                       | 40 µm               | 5882-13     |
|                       | 100 µm              | 5882-14     |
| Liquid level lens kit | Prismatic           | 4380-050    |
| Replacement drains    | Automatic           | 3000-10     |
|                       | Manual quarter turn | 619-50      |

Service kit contains body o-ring, element gasket, automatic drain gasket, and bowl o-ring.



\*\* Minimum clearance required to remove intermediate body and bowl.