

**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**

### Alternative models

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

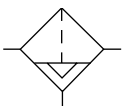
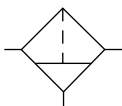
Threads	Substitute
PTF	A
ISO Rc taper	B
ISO G parallel	G

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

**ISO Symbols**

**Auto Drain**

**Manual Drain**

**See Section ALE-24 for Accessories**



## 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

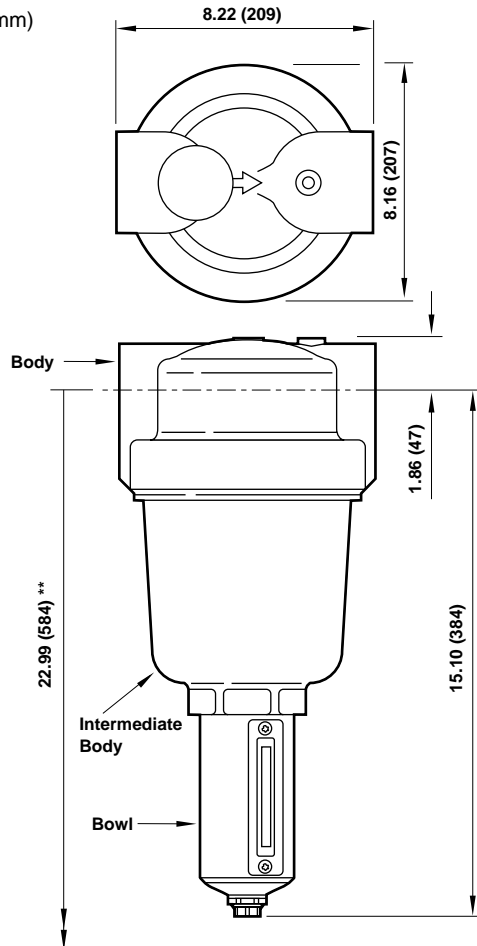
Metal bowl liquid level indicator: Transparent nylon

Filter element: Sintered bronze

Elastomers: Neoprene and nitrile

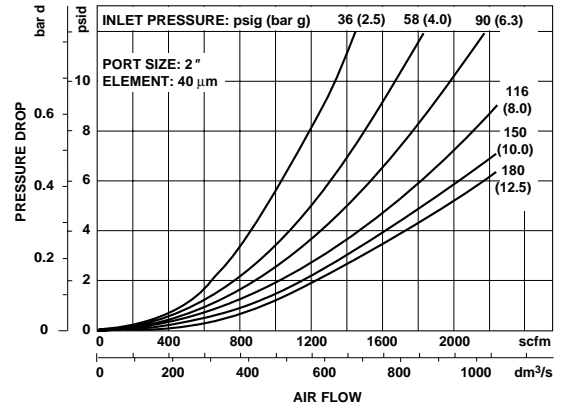
An automatic drain is a two-way valve, which will close when the system is pressurized. The drain opens when the float rises due to accumulated liquid and on depressurization.

All Dimensions in Inches (mm)



Automatic Drain

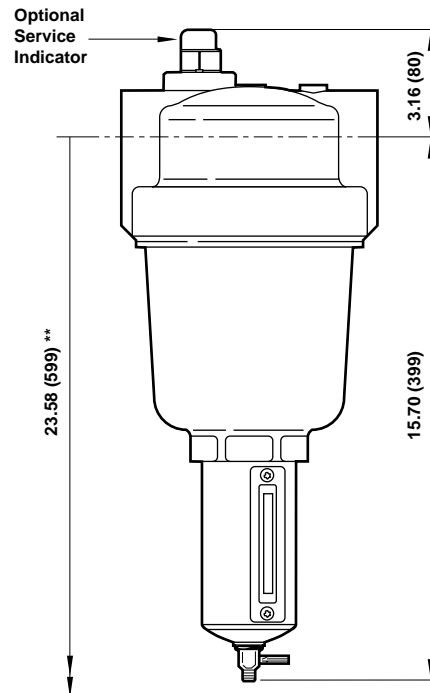
## Typical Performance Characteristics



## 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.



1/4 Turn Manual Drain

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