

**F46 Oil Removal (Coalescing)
Filter 3/4", 1", and 1-1/4" Port Sizes**

- High efficiency oil and particle removal
- Screw-on bowl reduces maintenance time
- Can be disassembled without the use of tools or removal from the air line
- Standard service indicator turns from green to red when the filter element needs to be replaced

NOTE: Install an F17 filter with a 5 µm filter element upstream of the F46 filter for maximum service life.



Ordering Information. Models listed include service indicator, automatic drain, metal bowl with sight glass, and PTF threads.

Port Size	Model Numbers	Maximum Flow* scfm (dm ³ /s)	Weight lbs (kg)
3/4"	F46-601-A0DA	90 (42)	4.11 (1.86)
1"	F46-801-A0DA	125 (59)	4.05 (1.84)
1-1/4"	F46-A01-A0DA	125 (59)	4.29 (1.95)

* Maximum flow for oil-saturated element at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

Alternative Models

F 4 6 - ★ ★ ★ - ★ ★ ★ ★

Port Size	Substitute
3/4"	6
1"	8
1-1/4"	A

Option	Substitute
Not applicable	0

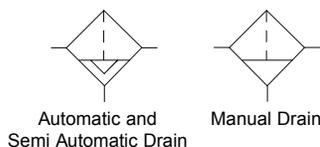
Service Life Indicator	Substitute
Without	0
With (visual)	1
With (electrical)	4

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

Bowl	Substitute
Metal with sight glass	D
Metal	M

Element	Substitute
Coalescing	0

Drain	Substitute
Automatic	A
Manual	M

ISO Symbols


See Section ALE-24 for Accessories



Technical Data

Fluid: Compressed air
 Maximum pressure: 250 psig (17 bar)
 Operating temperature: * -30° to 150°F (-34° to 65°C)
 * Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)
 Particle removal: Down to 0.01 µm
 Air quality: Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)
 Maximum remaining oil content in outlet air: 0.01ppm at 70°F (20°C) with an inlet oil concentration of 17 ppm.
 Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance:

- 3/4" ports: 90 scfm (42 dm³/s)
- 1" ports: 125 scfm (59 dm³/s)
- 1-1/4" ports: 125 scfm (59 dm³/s)

Nominal bowl size: 1 quart US (1 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.

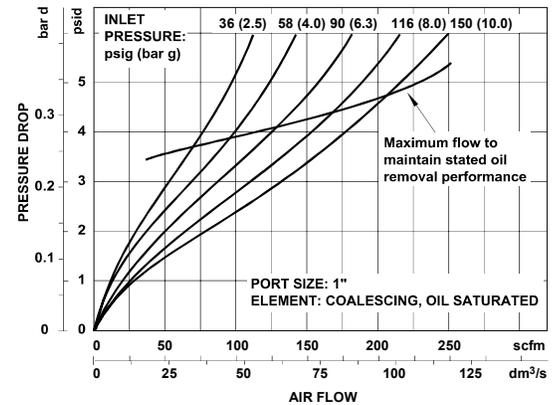
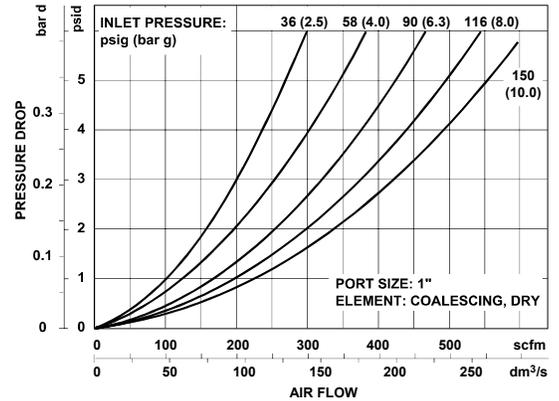
Automatic drain operating conditions (float operated)
 Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
 Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
 Minimum air flow required to close drain: 2 scfm (1 dm³/s)
 Manual operation: Depress pin inside drain outlet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

Materials

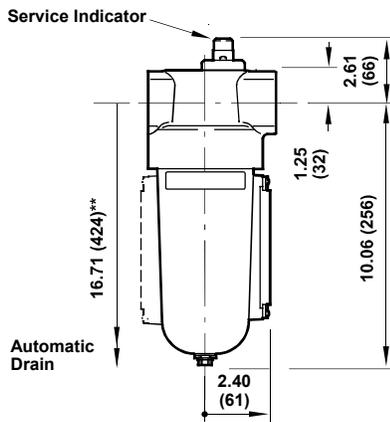
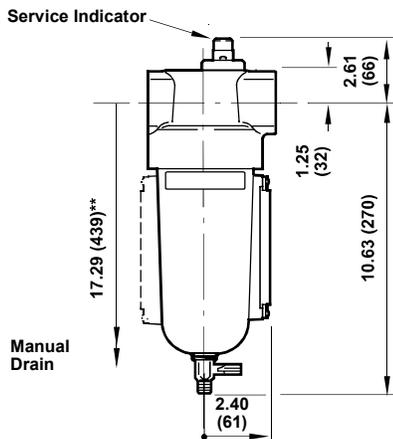
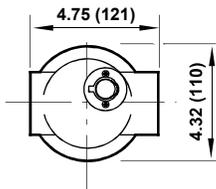
- Body: Aluminum
- Bowl: Aluminum
- Bowl sight glass: Pyrex
- Elastomers: Neoprene and nitrile
- Filter element: Synthetic fiber and polyurethane foam

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.

Typical Performance Characteristic



All Dimensions in Inches (mm)



** Minimum clearance required to remove bowl.

Service Kits

Item	Type	Part number
Service kit	O-ring, gaskets & element	5351-04
Replacement drains	Automatic (1/8 NPT outlet)	3000-18
	Manual (1/4 Turn)	619-50

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