

F07

Miniature Series 07 General Purpose Filter

1/8" and 1/4" Port Sizes

Compact design

Protects air operated devices by removing liquid and solid contaminants

Technical data

Fluid:

Compressed air

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature:*

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

-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 or 40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Drain connection:

1/8" male pipe thread

Materials

Body: zinc

Transparent bowl: Polycarbonate

Metal bowl: Zinc (without sight glass)

Element: sintered polypropylene

Elastomers: neoprene & nitrile



Ordering Information

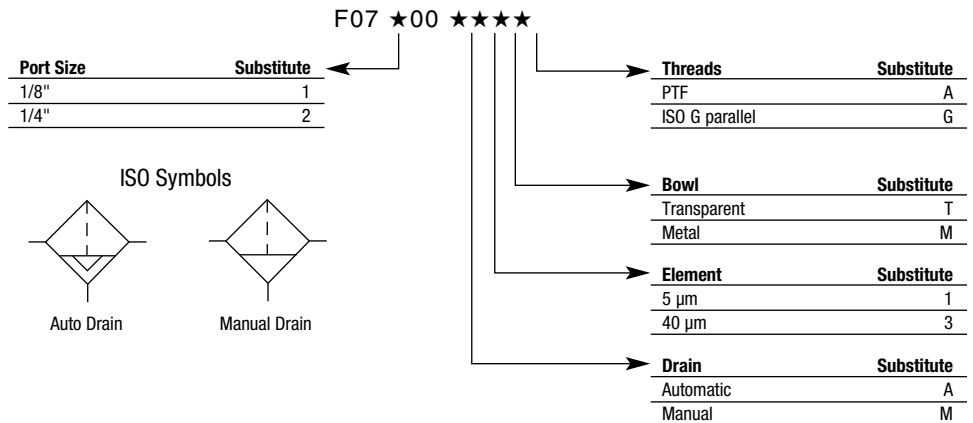
Models listed include PTF threads, automatic drain, transparent bowl and 5 µm element.

Port Size	Model Numbers	Flow scfm (dm ³ /s) *	Weight lbs (kg)	Replacement elements	Service kit**
1/8"	F07 100 A1TA	19 (9)	0.28 (0.13)	3652-17 (5µm)	3652-17
1/4"	F07 200 A1TA	24 (11.5)	0.28 (0.13)	3652-18 (40µm)	3652-18

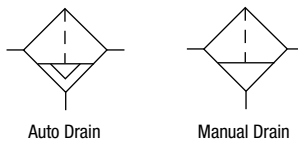
* Approximate flow at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

** Service kit includes element, element gasket, and bowl o-ring.

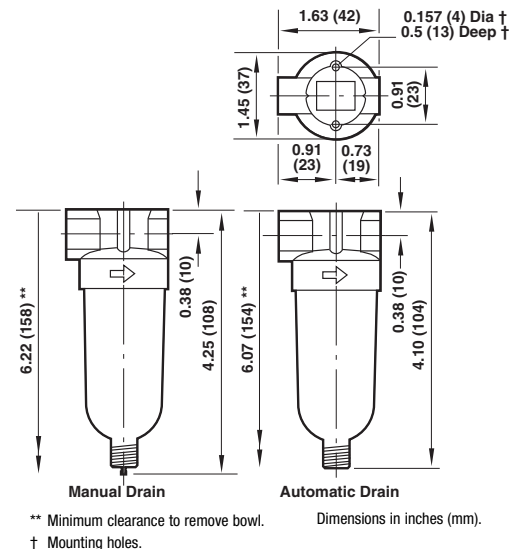
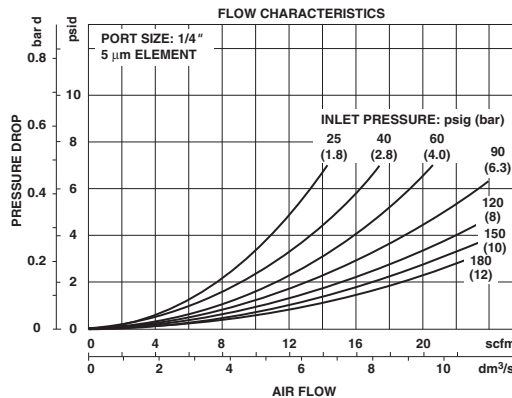
Alternative Models



ISO Symbols



Typical Performance Characteristics



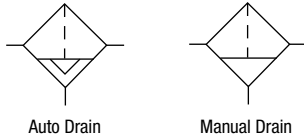
F17

17 Series General Purpose Filter

3/4", 1", 1-1/4", 1-1/2" Port Sizes



ISO Symbols



Screw-on bowl reduces maintenance time

Can be serviced without the use of tools or removal from the air line

Optional visual service indicator
Optional electrical service indicator also available

Protects air operated devices by removing liquid and solid contaminants

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)

Oil aerosol removal:

5 µm, or 40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Nominal bowl size:

1 quart (1 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread.

Materials

Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex

Elastomers: Neoprene and nitrile

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 ³ /s)*	Weight lbs (kg)	Filter elements**	Service kit††
3/4"	F17 600 A3DA	325 (153)	4.26 (1.93)	5311-01 (5µm)	5578 05 (all filters)
1"	F17 800 A3DA	425 (201)	4.15 (1.88)	5311-03 (40µm)	
1-1/4"	F17 A00 A3DA	425 (201)	4.39 (1.99)		
1-1/2"	F17 B00 A3DA	425 (201)	4.30 (1.95)		

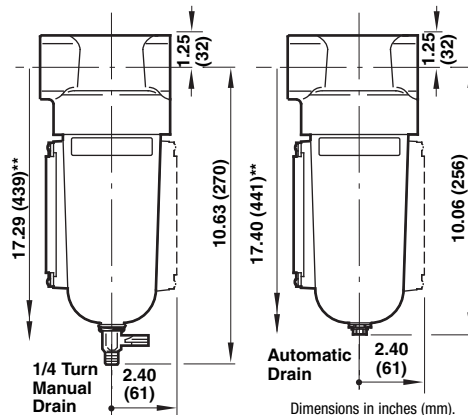
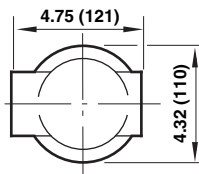
* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

** Filter elements are sintered bronze

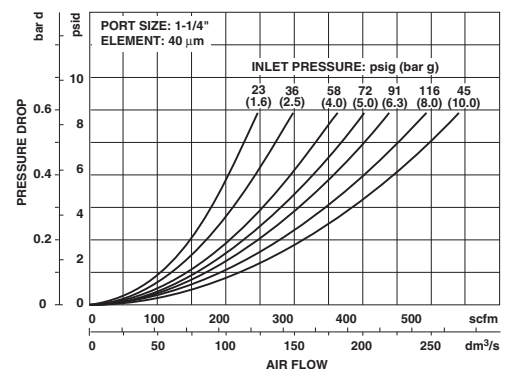
†† Service kit includes bowl o-ring, drain gasket, and element gasket.

Alternative Models

Port Size	Substitute	Threads	Substitute
3/4"	6	PTF	A
1"	8	ISO G parallel (not available with 1-1/2" ported units)	G
1-1/4"	A		
1-1/2"	B		
Element	Substitute	Drain	Substitute
5 µm	1	Automatic	A
40 µm	3	Manual 1/4 turn	M



Typical Performance Characteristics



F18

18 Series General Purpose Filter

1-1/2" and 2" Port Sizes

Highly visible, prismatic liquid level indicator lens

Can be disassembled without removal from the air line

Optional visual service indicator

Optional electrical service indicator

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, or 40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female 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.

Materials

Body: Aluminum

Intermediate body: Aluminum

Bowl: Aluminum

Metal bowl liquid level indicator:

Transparent nylon

Filter element: Sintered bronze

Elastomers: Neoprene and nitrile



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 ³ /s) *	Weight lbs (kg)	Replacements elements	Service kit**
1-1/2"	F18 B00 A3DA	1400 (661)	14.90 (6.76)	5882-11 (5µm)	5945 50
2"	F18 C00 A3DA	1400 (661)	14.65 (6.65)	5882-13 (40µm)	

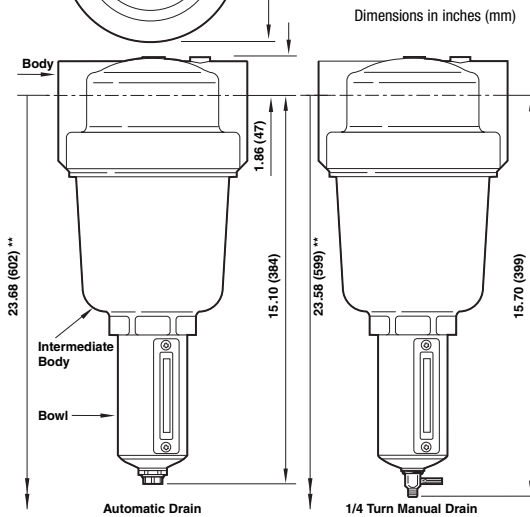
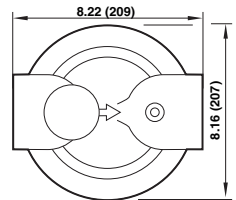
* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

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

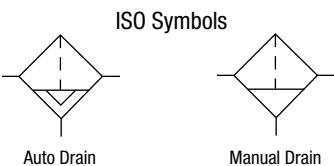
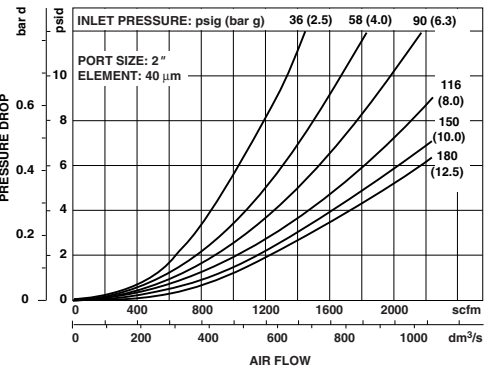
Alternative Models

F18 ★00 ★★D★

Port Size	Substitute	Threads	Substitute	Element	Substitute	Drain	Substitute
1-1/2"	B	PTF	A	5 µm	1	Automatic	A
2"	C	ISO G parallel	G	40 µm	3	Manual 1/4 turn	M



Typical Performance Characteristics

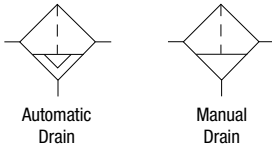


F39

Oil removal (Coalescing) Filter

1/8" and 1/4" Port Sizes

ISO Symbols



Compact design

High efficiency oil and particle removal

Technical data

Fluid:

Compressed air

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature:*

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 150°F (-34° to 65°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F)

Aerosol oil removal:

Down to 0.01 µm

Air quality:

Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil content of air leaving the filter: 0.01ppm at 70°F (21°C) with an inlet oil concentration of 17 ppm.

Maximum flow with 90 psig (6.3 bar) inlet pressure†:

1/8 ports, 6.0 scfm (2.8 dm3/s)

1/4 ports, 6.4 scfm (3 dm3/s)

† Maximum flow to maintain stated oil removal performance.

Nominal bowl size:

1 fluid ounce (31 ml)

Drain connection:

1/8" male pipe thread

Automatic drain operation:

Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

Materials

Body: Zinc

Bowl: Transparent: Polycarbonate

Metal: Zinc

Element: Synthetic fiber and polyurethane foam

Elastomers: Neoprene & nitrile

Ordering Information

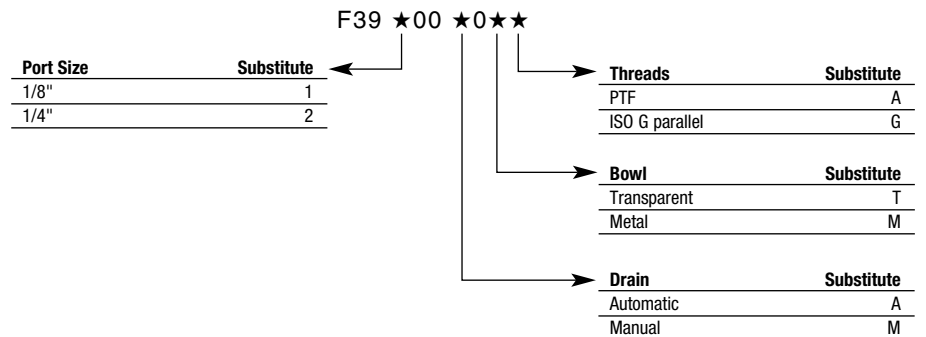
Models listed include PTF threads, automatic drain and transparent bowl.

Port Size	Model Numbers	Saturated Flow* scfm (dm3/s)	Dry Flow scfm (dm3/s)	Weight lbs (kg)	Element Kit**
1/8"	F39 100 A0TA	6.0 (2.8)	11.2 (5.3)	0.28 (0.13)	4141-10
1/4"	F39 200 A0TA	6.4 (3.0)	12.2 (5.8)	0.28 (0.13)	4141-10

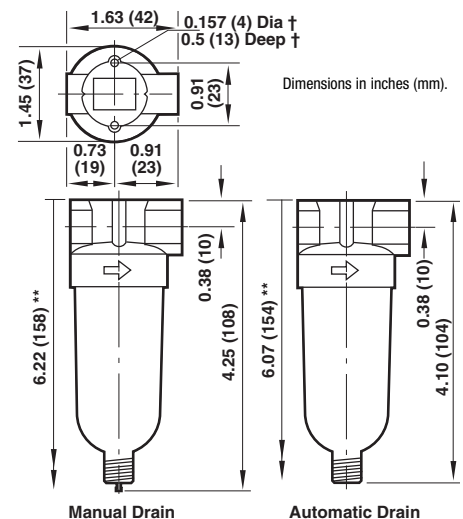
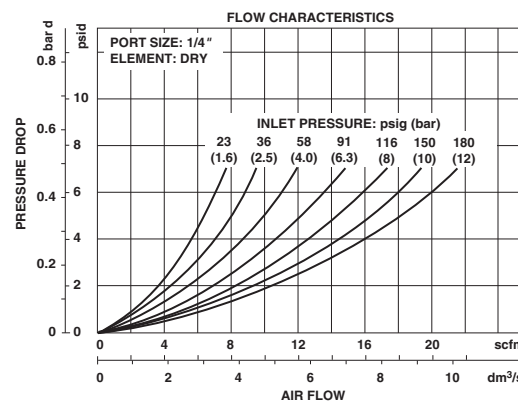
* Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

** Includes element and O-rings

Alternative Models



Typical Performance Characteristics



** Minimum clearance to remove bowl.

† Mounting holes.

F46

F46 Oil Removal (Coalescing)

Filter 3/4", 1", and 1-1/4" Port Sizes

High efficiency oil and particle removal

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.

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)

Oil aerosol 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.

Nominal bowl size:

1 quart US (1 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female 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.

Materials

Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex

Elastomers: Neoprene and nitrile

Filter element: Synthetic fiber and polyurethane foam



Ordering Information

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

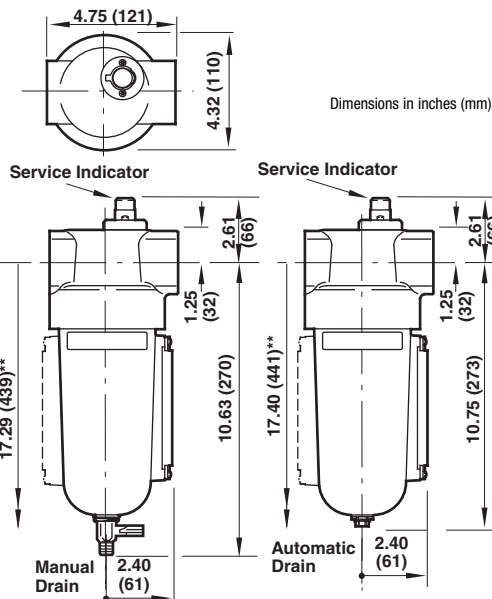
Port Size	Model Numbers	Maximum Flow* scfm (dm3/s)	Weight lbs (kg)	Element Kit**
3/4"	F46 601 A0DA	90 (42)	4.11 (1.86)	5351-04
1"	F46 801 A0DA	125 (59)	4.05 (1.84)	
1-1/4"	F46 A01 A0DA	125 (59)	4.29 (1.95)	

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

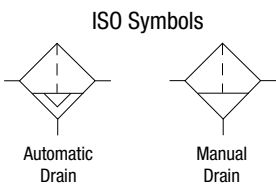
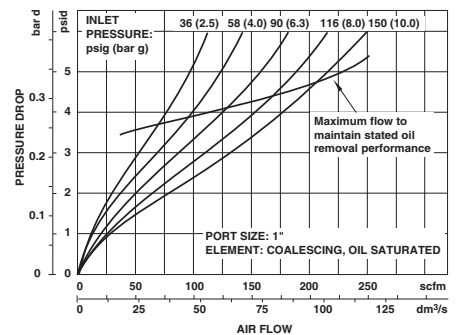
**Service kit contains coalescing element, element o-ring, bowl o-ring, and drain gasket.

Alternative Models

Port Size	Substitute	Threads	Substitute	Bowl	Substitute	Drain	Substitute
3/4"	6	PTF	A	Metal with sight glass	D	Automatic	A
1"	8	ISO G parallel	G			Manual	M
1-1/4"	A						



Typical Performance Characteristic

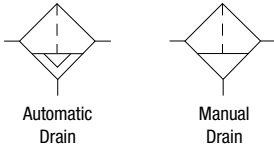


F47

18 Series Oil Removal Filter

(Coalescing) 1-1/2" and 2" Port Sizes

ISO Symbols



Can be disassembled without removal from the air line

Standard service indicator

Optional electrical service indicator

NOTE: Install an F18 filter with a 5 µm filter element upstream of the F47 filter for maximum service life.

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).

Oil aerosol 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:

0.01 ppm at 70°F (20°C) with an inlet concentration of 17 ppm

Nominal bowl size:

7 fluid ounce (0.2 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female 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.

Materials

Body, intermediate body, bowl: Aluminum

Metal bowl liquid level indicator lens: Transparent nylon

Filter element: Synthetic fiber and polyurethane foam

Elastomers: Neoprene and nitrile

Service indicator

Body: Transparent nylon

Internal parts: Acetal

Spring: Stainless steel

Elastomers: Nitrile

Ordering Information

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

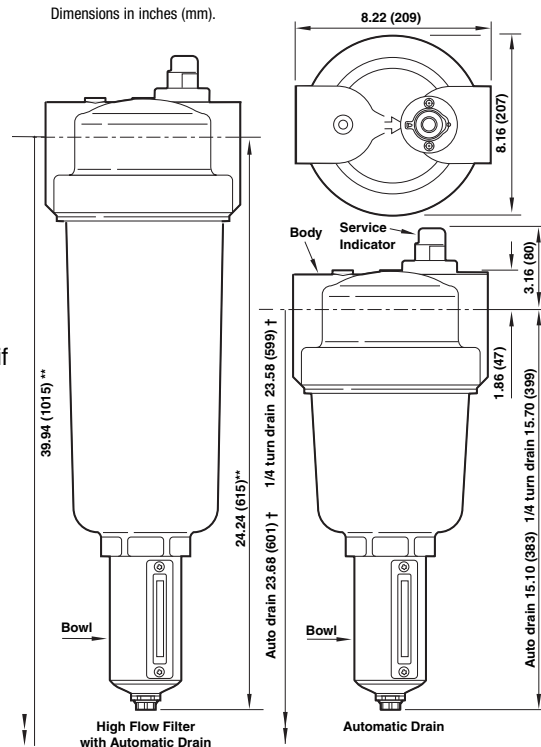
Port Size	Body and Element	Model Numbers	Flow scfm (dm ³ /s)*	Weight lbs (kg)	Element kit
1-1/2"	Standard	F47-B01-AODA	250 (118)	15.51 (7.04)	std flow 3203-02
2"	Standard	F47-C01-AODA	300 (142)	14.26 (6.47)	hi-flow 3203-05
2"	High Flow	F47-C21-AODA	600 (283)	22.17 (10.06)	

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

Alternative Models

F47-★01-★0D★

Port Size	Substitute	Threads	Substitute	Drain	Substitute
1-1/2"	B	PTF	A	Automatic	A
2"	C	ISO G parallel	G	Manual, 1/4 turn	M



Typical Performance Characteristics

