

**Olympian Plus
Oil Removal (Coalescing) Filter
1/2", 3/4", 1" Port Sizes**

- **Olympian Plus plug-in system**
- **Coalescing element provides high efficiency oil and particle removal**
- **Standard visual service indicator turns from green to red when the filter element needs to be replaced**
- **Oil and dirt contamination in outlet air within ISO 8573-1: Quality Class 1.7.2**
- **Optional electrical service life indicator provides electrical output when the filter element needs to be replaced - see page N/AL.8.900.920**

Install an F68G pre-filter with a 5 µm filter element upstream of the F68C/H filter for optimum coalescing element life.

**Technical Data**

Fluid: Compressed air

Maximum pressure: 17 bar (250 psig)

Operating temperature*: -20° to +65°C (0° to +150°F)

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

Partical removal: 0,01 µm

Air quality: Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content).

Maximum remaining oil content: 0,01 mg/m³ at +20°C (+70°F) with an inlet concentration of 17 mg/m³.

Maximum flow at 6,3 bar (90 psig) inlet pressure to maintain stated oil removal performance:

1/2" ports: 35 dm³/s (74 scfm)

3/4" ports: 35 dm³/s (74 scfm)

1" ports: 60 dm³/s (127 scfm)

1/4 turn manual drain connection: 1/8" pipe thread

Automatic drain connection: 1/8" pipe thread

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: Greater than 0,3 bar (5 psig)

Bowl pressure required to open drain: Less than 0,2 bar (3 psig)

Minimum air flow required to close drain: 1 dm³/s (2 scfm)

Manual operation: Depress pin inside drain outlet to drain bowl

Nominal bowl size:

0,5 litre (1 pint U.S.)

1 litre (1 quart U.S.)

Materials:

Body: Aluminium

Yoke: Aluminium

Bowl: Aluminium

Liquid level indicator: Pyrex

Element: Synthetic fibre and polyurethane foam

Elastomers: Synthetic rubber

Service life indicator:

Body: Transparent nylon

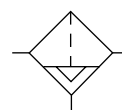
Internal parts: Acetal

Spring: Stainless steel

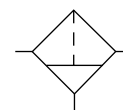
Elastomers Nitrile

Ordering Information

See *Ordering Information* on the following pages.

ISO Symbols

Automatic Drain



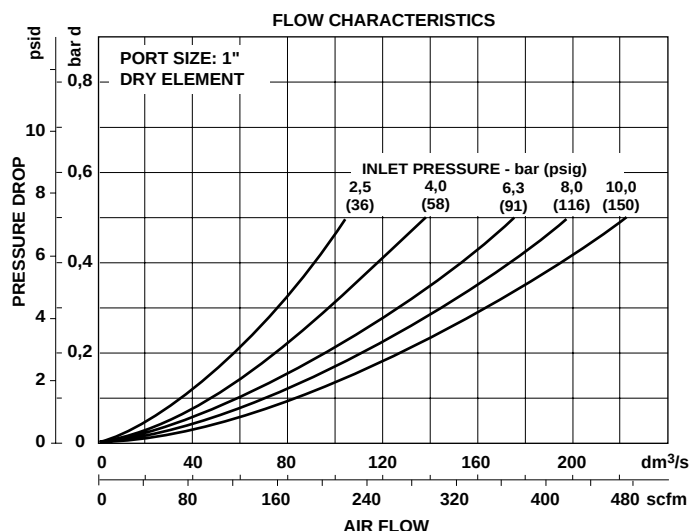
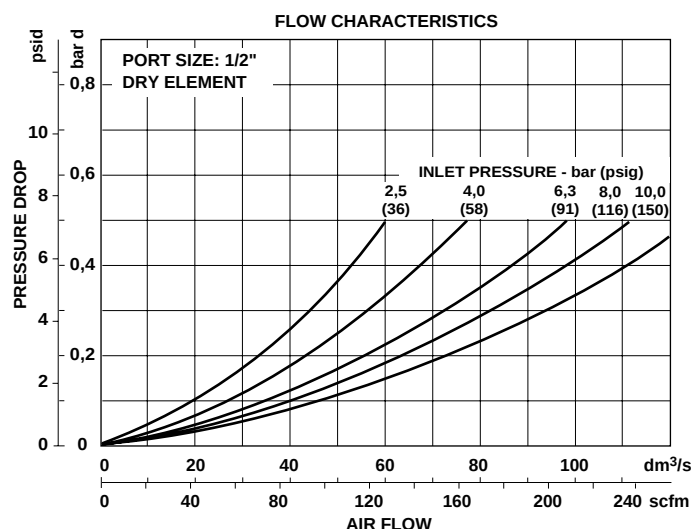
Manual Drain



Typical Performance Characteristics

Inlet Pressure		Maximum Flow*					
		F68C		F68H		F68H	
		1/2" Ports		3/4" Ports		1" Ports	
bar	(psig)	dm ³ /s	(scfm)	dm ³ /s	(scfm)	dm ³ /s	(scfm)
1	(15)	14	(30)	14	(30)	24	(51)
3	(45)	24	(51)	24	(51)	41	(87)
5	(70)	31	(66)	31	(66)	53	(112)
6,3	(90)	35	(74)	35	(74)	60	(127)
7	(100)	36,7	(78)	36,7	(78)	63	(133)
9	(130)	42	(89)	42	(89)	72	(153)

* Maximum flow to maintain stated oil removal performance.



Ordering Information. Models listed include a yoke with ISO G threads, filter with service life indicator, automatic drain, and a bowl with liquid level indicator.

Port Size	Type	Model	Weight kg (lb)
G1/2	Standard flow	F68C-4GD-AR0	2,36 (5.19)
G3/4	High flow	F68H-6GD-AU0	2.66 (5.85)
G1	High flow	F68H-8GD-AU0	2,60 (5.72)

Alternative Models

F 6 8 ★ - ★ ★ ★ - ★ ★ ★

Flow	Substitute
Standard flow	C**
High flow	H

Port Size	Substitute
1/2"	4**
3/4"	6
1"	8
None	N

Threads	Substitute
PTF	A
ISO Rc taper	B
ISO G parallel	G
None	N

Service Life Indicator	Substitute
Visual	D
Electrical	E
Without	N

Element	Substitute
Coalescing	0

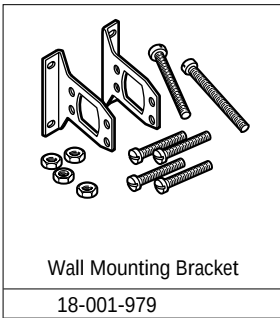
Bowl	Substitute
1 litre (1 quart) without liquid level indicator	C
0,5 litre (1 pint) without liquid level indicator	M**
0,5 litre (1 pint) with liquid level indicator	R**
1 litre (1 quart) with liquid level indicator	U

Drain	Substitute
Automatic	A
No drain (Closed bowl)	E
Manual	M
Manual, 1/4 turn	Q

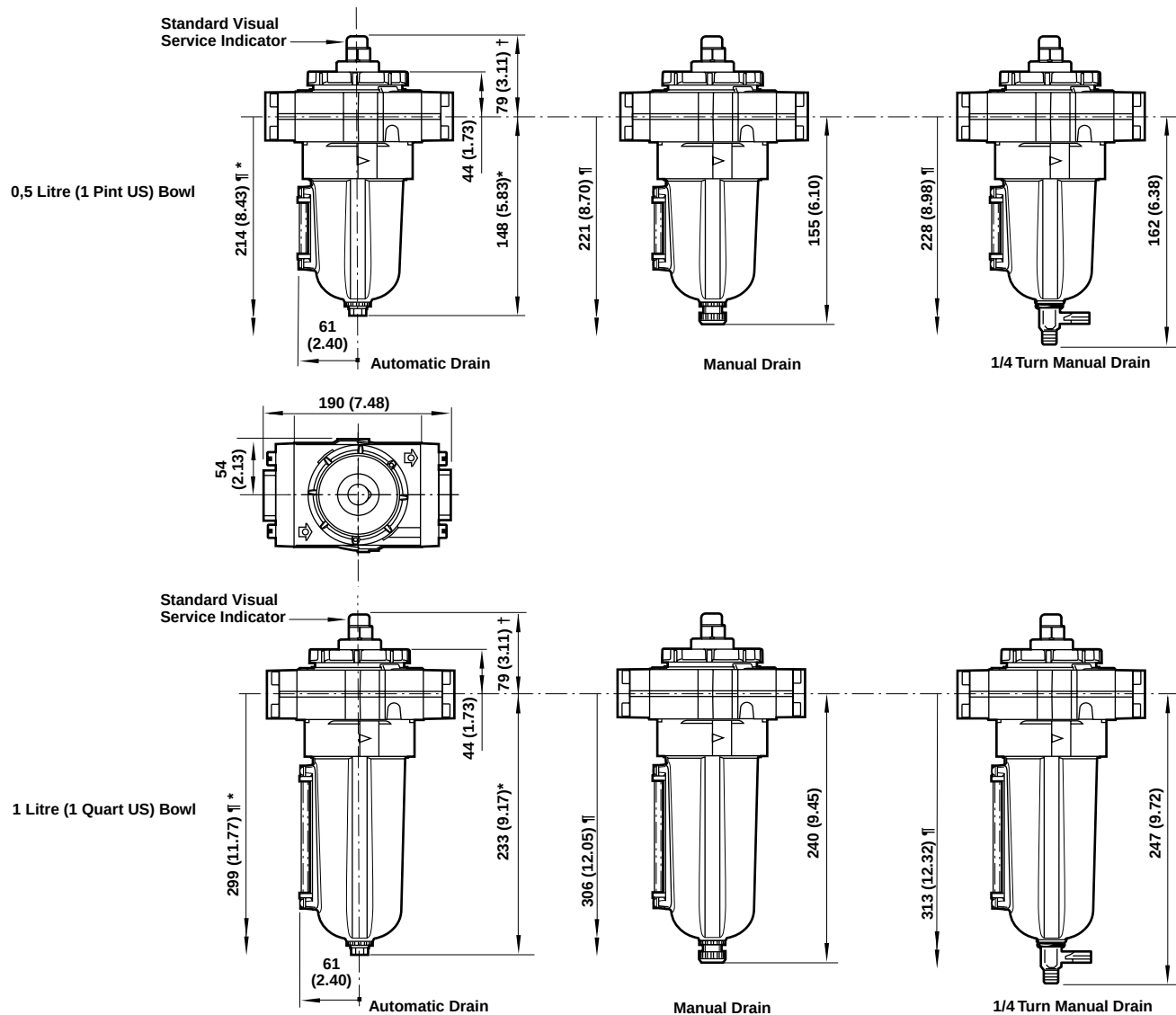
** Only available with the standard flow filter (F68C).



Accessories



Dimensions mm (inches)



† For optional electrical service life indicator, subtract 10 mm (0.39").

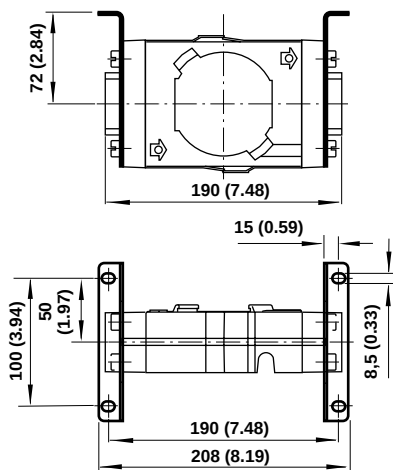
* For closed bottom bowl, subtract 9 mm (0.35").

† Minimum clearance required to remove bowl.



Bracket Mounting

Use 4 mm (5/32") screws to mount bracket to wall.



Bracket Kit Reference

Item	Type	Part Number
Wall Bracket	1/2", 3/4", 1" ported yokes	18-001-979

Service Kits

Item	Type	Part Number
Service Kit	Seal and gasket	4380-301
Replacement Elements	Standard flow (F68C)	5391-98
	High flow (F68H)	5391-99
Replacement Sight Glass	0,5 litre (1 pint US)	4380-060
	1 litre (1 quart US)	4380-061
Replacement Drains	Automatic (G 1/8 outlet)	3000-04
	Automatic (1/8 NPT outlet)	3000-03
	Manual	684-84
	Manual, 1/4 turn	619-50
Service Life Indicators	Visual	5797-50
	Electrical	4020-51R

Service kit Includes element seal, bowl seal, drain seal.

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under '**Technical Data**'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Water vapor will pass through these units and will condense into liquid if air temperature drops in the downstream system. Install an air dryer if water condensation could have a detrimental effect on the application.