

**Excelon®72  
Oil Removal Filter  
1/4", 3/8" Port Sizes**

- **EXCELON design allows in-line or modular installation with other Excelon 72 products**
- **High efficiency oil and particle removal**
- **Quick release bayonet bowl**
- **Highly visible, prismatic liquid level indicator lens on metal bowls**
- **Standard visual service life indicator turns from green to red when the filter element needs to be replaced**
- **Optional electrical service indicator also available**
- **Modular installations with EXCELON 72, 73, and 74 series can be made to suit particular applications**

Install an F72G filter with a 5 µm filter element upstream of the F72C filter for optimum coalescing element life.

**Technical Data**

Fluid: Compressed air

Maximum pressure:

Transparent bowl:

Manual or semi automatic drain: 10 bar (150 psig)

Automatic drain: 8 bar (116 psig)

Metal bowl:

Manual or semi automatic drain: 17 bar (250 psig)

Automatic drain: 8 bar (116 psig)

Operating temperature\*:

Transparent bowl: -20° to +50°C (0° to +125°F)

Metal bowl: -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 1.7.2

Maximum remaining oil content in outlet air:

0,01 ppm at +21°C (+70°F) with an inlet concentration of 17 ppm.

Maximum flow with 6,3 bar (90 psig) inlet pressure†:

4,5 dm<sup>3</sup>/s (9.5 scfm)

† Maximum flow to maintain stated oil removal performance.

Manual drain connection: 7/16-24 UNS male for 1/4" tube nut and ferrule

Semi automatic drain connection: Push on 8 mm (5/16") ID tube

Semi automatic drain operating conditions (pressure operated):

Bowl pressure required to close drain: Greater than 0,1 bar (1.5 psig)

Bowl pressure required to open drain: Less than 0,1 bar (1.5 psig)

Minimum air flow required to close drain: 0,5 dm<sup>3</sup>/s (1 scfm)

Manual operation: Lift stem to drain bowl

Automatic drain connection: 1/8"

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: 0,1 dm<sup>3</sup>/s (0.2 scfm)

Manual operation: Depress pin inside drain outlet to drain bowl



Nominal bowl size:

Short bowl: 56 ml (1.9 fluid ounce)

Long bowl: 65 ml (2.2 fluid ounce)

Materials:

Body: Zinc

Bowl:

Transparent: Polycarbonate

Guard for transparent bowl: Zinc

Metal: Zinc

Metal bowl liquid level indicator lens:

Transparent nylon

Element:

Synthetic fibre and polyurethane foam

Elastomers: Neoprene and nitrile

Service life indicator:

Body: transparent nylon.

Internal parts: acetal.

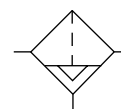
Spring: stainless steel.

Elastomers nitrile

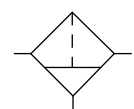
**Ordering Information**

See *Ordering Information* on the following pages.

**ISO Symbols**



Automatic and Semi Automatic Drain



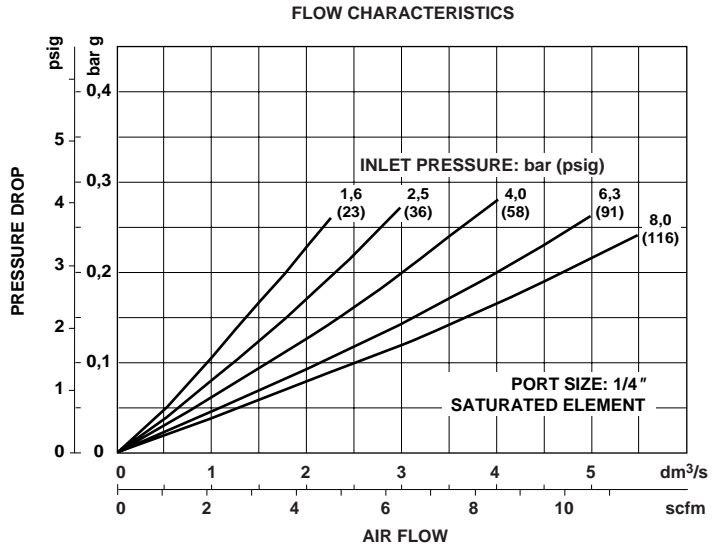
Manual Drain



### Typical Performance Characteristics

Inlet Pressure bar	(psig)	Maximum Flow <sup>†</sup> dm <sup>3</sup> /s	(scfm)
1	(15)	1,8	(3.8)
3	(45)	3,1	(6.6)
5	(70)	4,0	(8.5)
6,3	(90)	4,5	(9.5)
7	(100)	4,7	(10.0)
9	(130)	5,4	(11.4)

<sup>†</sup> Maximum flow to maintain stated oil removal performance.



**Ordering Information.** Models listed include ISO G threads, service life indicator, semi automatic drain, transparent bowl without guard.

Port Size	Model	Flow <sup>†</sup> dm <sup>3</sup> /s (scfm)	Weight kg (lb)
G1/4	F72C-2GD-ST0	4,5 (9.5)	0,40 (0.88)
G3/8	F72C-3GD-ST0	4,5 (9.5)	0,40 (0.88)

<sup>†</sup> Maximum flow with 6,3 bar (90 psig) inlet pressure, to maintain stated oil removal characteristics.

### Alternative Models

F 7 2 C - ★ ★ ★ - ★ ★ ★

Port Size	Substitute
1/4"	2
3/8"	3

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

Service Life Indicator	Substitute
With (visual)	D
With (electrical)	E
Without	N

Element	Substitute
Coalescing	0

Bowl	Substitute
Metal with liquid level indicator	D
Transparent without guard	T
Long transparent without guard	L
Long transparent with guard	W

Drain	Substitute
1/4 turn manual	Q
Semi automatic	S
Auto drain*	A

\* Supplied in long bowl options only

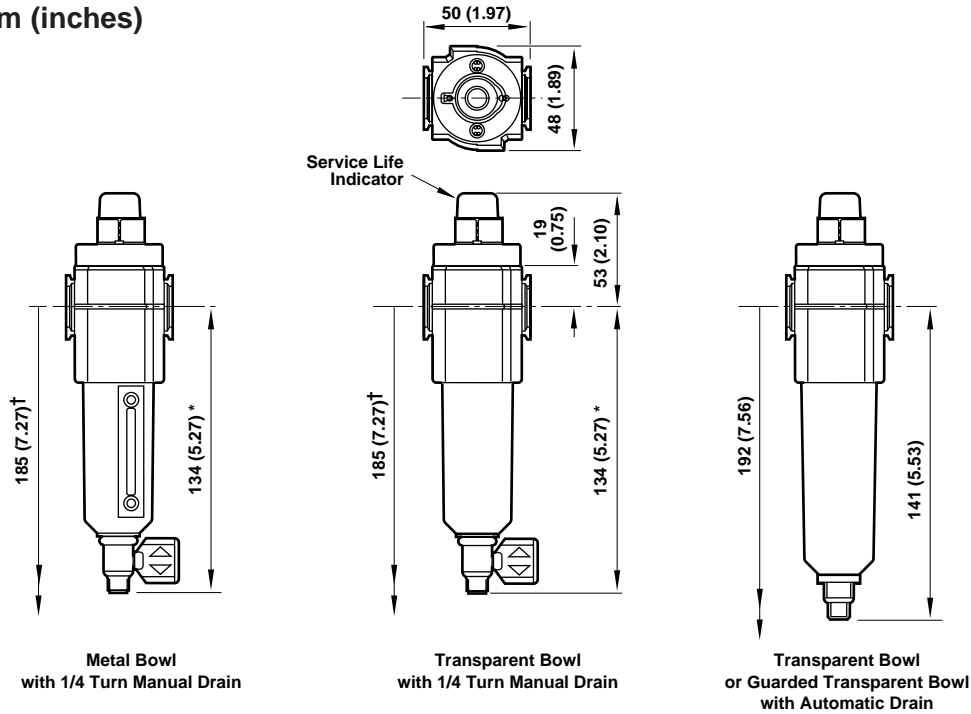
Available with F72G pre-filter, see catalogue pages N/AL.8.160.800.01 to 04

### Accessories

Wall Mounting Bracket	Quikclamp and Quikclamp Wall Bracket	Service Life Indicator (visual)	Service Life Indicator (electrical)
4224-50	4214-52	5797-50	4020-51



### Dimensions mm (inches)

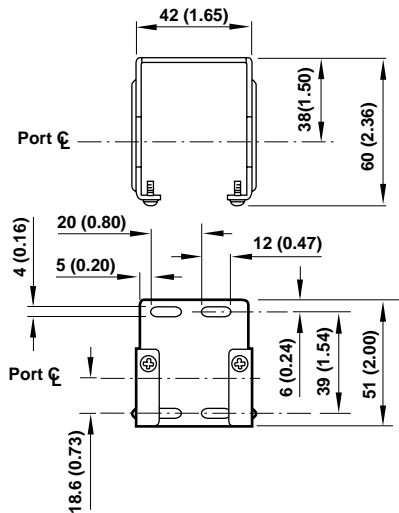


- \* For semi automatic drain add 30 mm (1.17") to 1/4 turn manual drain shown.
- † Minimum clearance required to remove bowl. For semi automatic drain add 30 mm (1.17") to 1/4 turn manual drain shown.

### Bracket Mounting

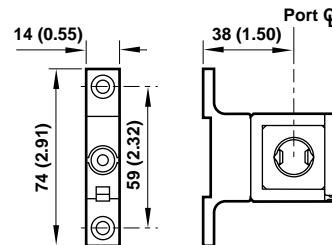
#### Mounting Bracket

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



#### Quikclamp and Quikclamp Wall Bracket

Use 5 mm (3/16") screws to mount bracket to wall.



### Bracket Kit Reference

Item	Part Number
Wall Bracket	4224-50
Quikclamp and Quikclamp Wall Bracket	4214-52

### Service Kits

Item	Type	Part Number
Service kit	Seal and gasket	4380-500
Element	Coalescing	5925-09
Service Life Indicator	visual	5797-50
	electrical	4020-51
Liquid level lens kit	Prismatic	4380-030
Replacement drains	1/4 turn manual	619-50
	Semi automatic	5379-RK
	Automatic	4000-50R

Service kit includes drain and bowl o-rings.



## 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.