

- Port size: 1/4" & 3/8" (ISO G/PTF)
- Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- High efficiency oil and particle removal
- > Double safety lock bowl

- Metal bowl with prismatic liquid level indicator lens
- Light weight Polycarbonate bowl
- Service indicator standard
- Air purity class in accordance with ISO 8573-1: Remaining oil aerosol to class 1*

*Tested in accordance with the methods laid out in ISO 12500-1 using an inlet oil aerosol concentration of 4mg/m³



Technical features

Medium:

Compressed air only

Maximum operating pressure:

Polycarbonate bowl: 145 psi (10 bar) Metal bowl: 246 psi (17 bar)

Remaining oil content:

0.01 mg/m³ at +69°F (+21°C)

Particle removal:

To 0.01 µm

Port size:

G1/4, G3/8, 1/4 PTF, 3/8 PTF

Dry element flow:

operating pressure 91 psi (6.3 bar) and a Δp : 7.25 psi (0.5 bar) drop from set. 1/4"= 32 scfm (15.1 dm³/s)

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: 5 psi (> 0,35 bar) Bowl pressure required to open drain: 2.9 psi (≤ 0,2 bar) Minimum air flow required to close drain: 2 scfm (1 dm³/s)

Drain:

Manual or automatic

Polycarbonate bowl:

Ambient/Media temperature:

+14 ... +140°F (-10 ... +60°C) Metal bowl: -4 ... +149°F (-20 ... +65°C) Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

Note:

Install an F82G filter with a 5 µm filter element upstream of the F82C filter for maximum service life.

Materials:

Body: Die cast aluminium Body covers: ABS Bowl: Transparent PC with PP guard or die cast zinc Liquid level indicator lens (metal bowl): PA Filter element: Synthetic fiber & PE foam Bowl 'o'- ring: Chloroprene Elastomers: NBR

Technical data F82C

Symbol	Port Size (PTF)	Drain	Bowl	Weight lb (kg)	Model
▼	1/4	Auto	Guarded polycarbonate	0.55 (0.25)	F82C-2AD-AP0
	3/8	Auto	Guarded polycarbonate	0.55 (0.25)	F82C-3AD-AP0
	1/4	Auto	Metal with level indicator	0.97 (0.44)	F82C-2AD-AD0
	3/8	Auto	Metal with level indicator	0.97 (0.44)	F82C-3AD-AD0
⊗	1/4	Manual	Guarded polycarbonate	0.55 (0.25)	F82C-2AD-QP0
	3/8	Manual	Guarded polycarbonate	0.55 (0.25)	F82C-3AD-QP0
	1/4	Manual	Metal with level indicator	0.99 (0.45)	F82C-2AD-QD0
	3/8	Manual	Metal with level indicator	0.97 (0.44)	F82C-3AD-QD0

$F82C-\star\star D-\star\star 0$ **Option selector** Port size Substitute Substitute Bowl 1/4" 2 Transparent with guard Р 3/8" 3 Metal with liquid indicator D Thread form Substitute Substitute Drain PTF Α Manual Q ISO G G Auto drain Α



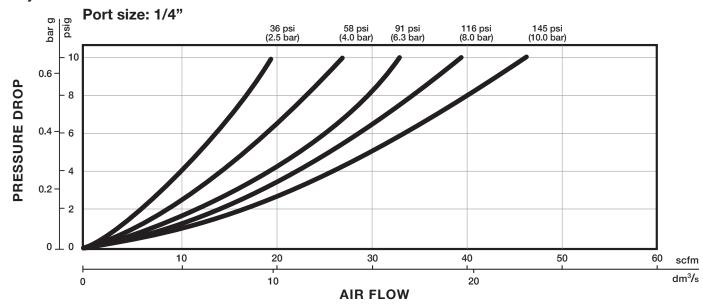


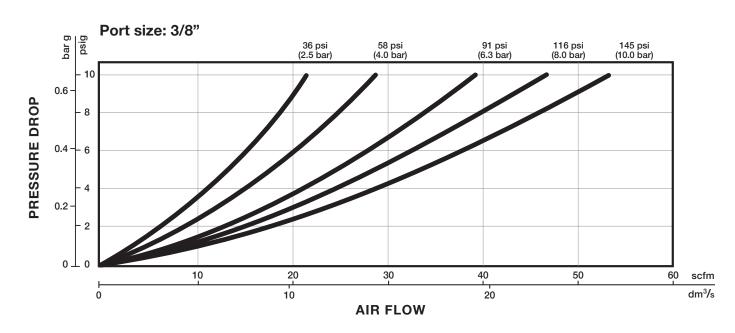
Flow characteristics

Port size: 1/4"
Oil Coalescing Filter

Inlet Pressure psi (bar)	Flow-rate to maintain media velocity of ISO12500-1 test on oil coalescing filter (L/sec)		
36 (2.5)	2.6		
58 (4)	3.7		
91 (6.3)	5.5		
116 (8)	6.8		
145 (10)	8.3		

Dry Flow







Accessories





















- *1) Flanged version. For other pressure ranges, please see data sheet 5.11.001
- *2) For other pressure ranges, please see data sheet 5.11.385



Spare parts





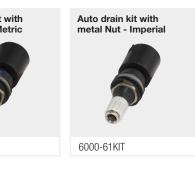








Maintenance/Service











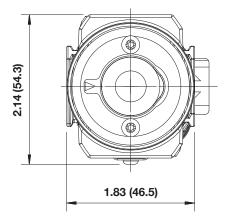


Dimensions

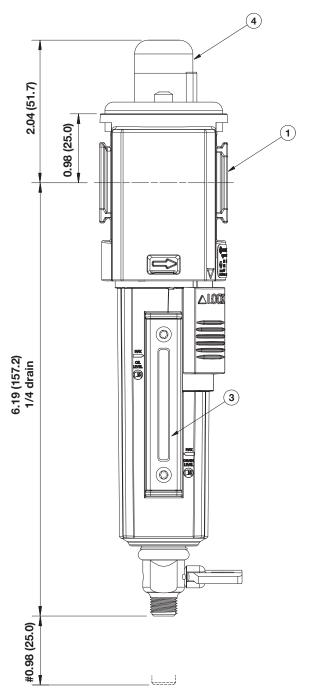
Dimensions in inches (mm) Projection/Third angle

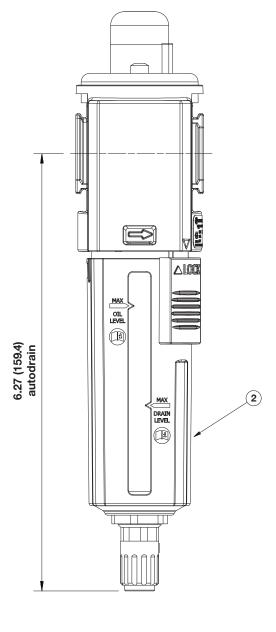






- # Minimum clearance for bowl removal
- 1 Main ports 1/4", 3/8" (ISO G/PTF)
- 2 Transparent bowl with guard
- 3 Metal bowl with liquid level indicator lens
- 4 Service indicator

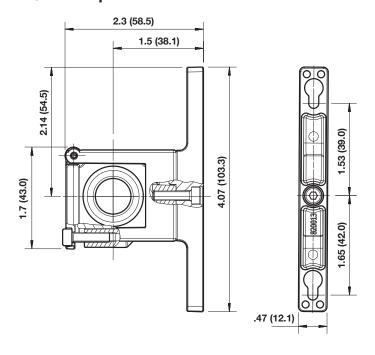




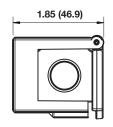


Accessories

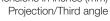
Quikclamp® with wall bracket



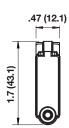
Quikclamp®



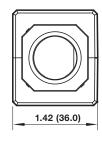
Dimensions in inches (mm)

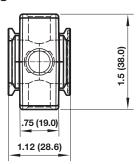


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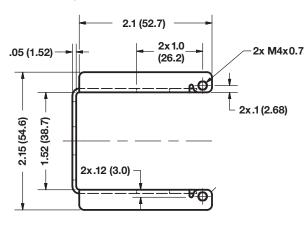


Pressure sensing block

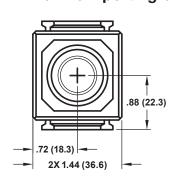


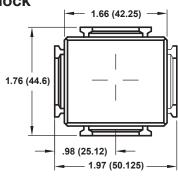


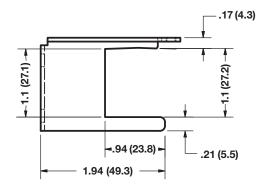
Mounting bracket

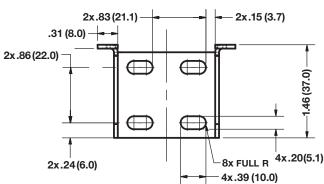


Full flow porting block







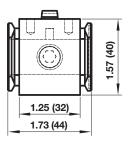


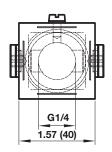


Dimensions in inches (mm) Projection/Third angle

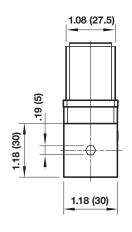


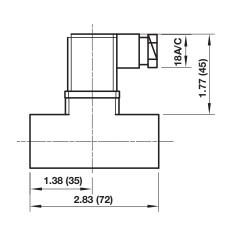
Porting block for 18D pressure switch



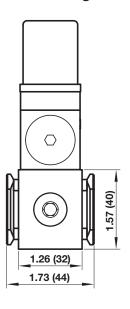


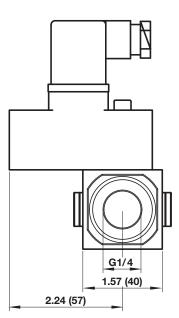
18D Pressure switch



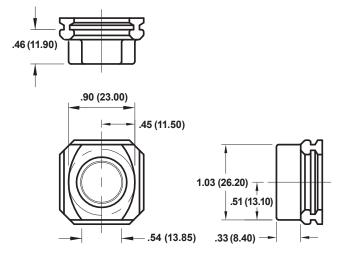


18D Porting block and 18D assembled





Pipe adaptor



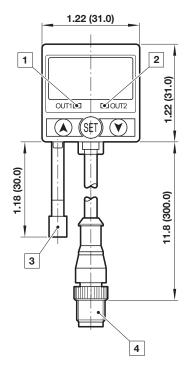


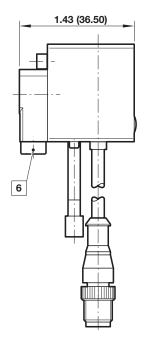
Dimensions in inches (mm) Projection/Third angle

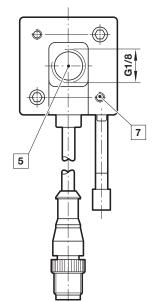




51D Pressure switch - digital







- 1 Switch OUT 1, green LED
- 2 Switch OUT 2, red LED
- 3 Dustproof protector
- 4 Connector M12 x 1
- 5 Inlet port
- 6 Alternative inlet port G1/8 plugged
- 7 Thread for mounting screw

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 features/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 IMI Precision Engineering, Norgren Ltd.

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.

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