

F82C - Oil removal filters Excelon® Plus Modular System

- > 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

Technical data F82C—standard models

Dry element flow:

Operating pressure 91 psi (6.3 bar) and a Δ p: 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 (\leq 0.2 bar) Minimum air flow required to close drain: 2 scfm (1 dm³/s)

Drain:

Manual or automatic Ambient/Media temperature: Polycarbonate bowl: +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 aluminum 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

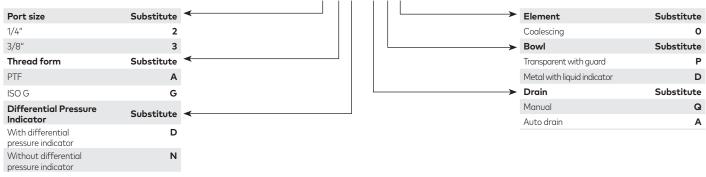
Symbol	Port Size (PTF)	Drain	Bowl	Weight Ibs (kg)	Model
	1/4	Auto	Guarded polycarbonate	0.55 (0.25)	F82C-2AD-AP0
	3/8	Auto	Guarded polycarbonate	0.55 (0.25)	F82C-3AD-AP0
	1/4	Auto	Metal with level indicator	0.97 (0.44)	F82C-2AD-AD0
	3/8	Auto	Metal with level indicator	0.97 (0.44)	F82C-3AD-AD0
$\stackrel{\frown \otimes}{\longrightarrow}$	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	0.97 (0.44)	F82C-2AD-QD0
	3/8	Manual	Metal with level indicator	0.97 (0.44)	F82C-3AD-QD0





Option selector

$F82C- \star \star \star - \star \star 0$



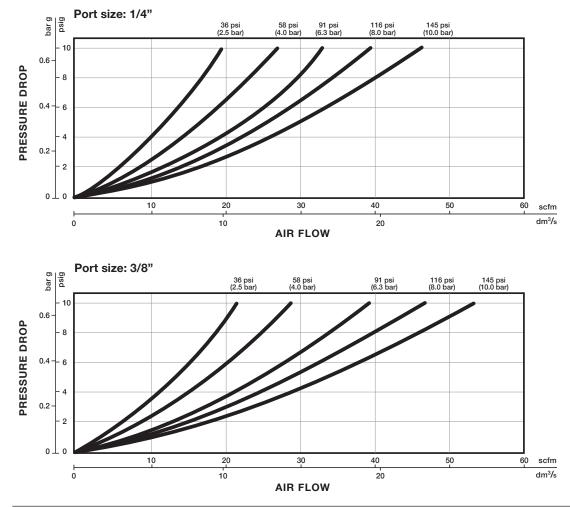
Flow characteristics

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 scfm (L/sec)
36 (2.5)	5.5 (2.6)
58 (4)	7.8 (3.7)
91 (6.3)	11.7 (5.5)
116 (8)	14.4 (6.8)
145 (10)	17.6 (8.3)

Dry Flow





Quikclamp®

Page 7

G3/8

Page 7

Page 8

820028-53KIT

Pneumatic pressure switch

18D (0,5 ... 8 bar) *1)

088130000000000

820014-51KIT

Full flow porting block

Accessories



Page 7 820024-50KIT





Page 7 820028-50KIT



Page 8
052310900000000

*1) For other pressure ranges, please see 18D data sheet *2) For other pressure ranges, please see 54D data sheet





820015-03KIT



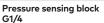


Page 7 820014-52KIT





Page 7 820016-50KIT





820016-51KIT





820015-08KIT



Vage 8

08/23



Maintenance/Service

Filter element 0.01µm



820044-50KIT

Spare parts

Filter Bowl (Guarded Poly bowl with auto drain 6 mm PIF)



820025-51KIT





6000-61KIT



820025-50KIT





Auto drain kit with

metal Nut - Metric

6000-60KIT

820025-53KIT



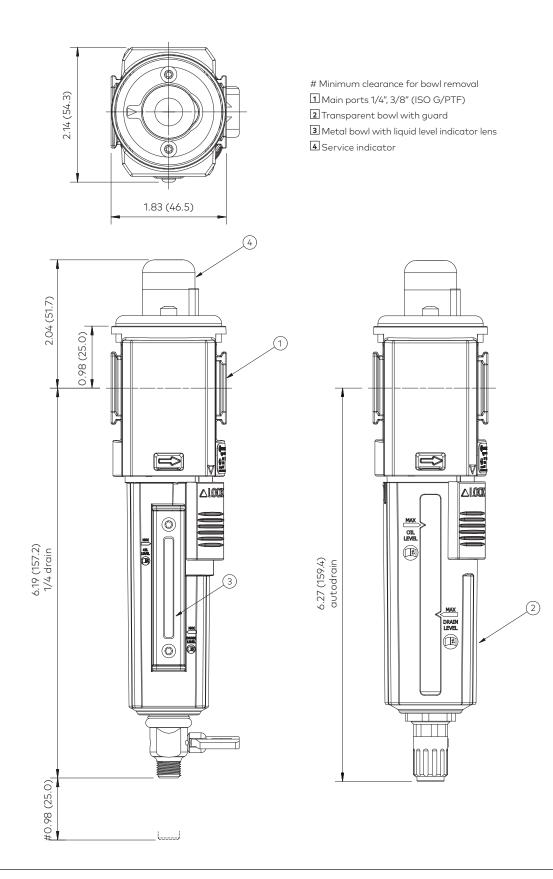
us en 8.105.155.04



Dimensions

Dimensions in inches (mm) Projection/Third angle





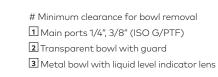


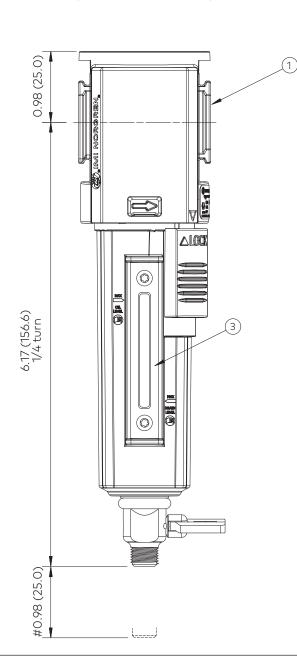
Dimensions

2.15 (54.6)

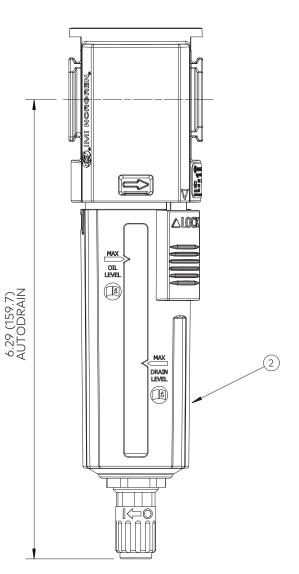
Dimensions in inches (mm) Projection/Third angle







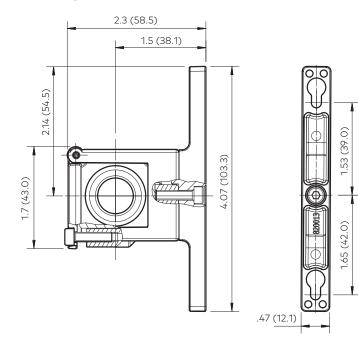
1.83 (46.5)



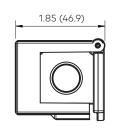


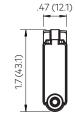
Accessories

Quikclamp° with wall bracket



Quikclamp®

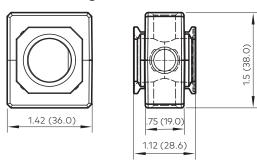




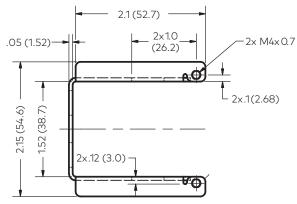
Dimensions in inches (mm) Projection/Third angle

 $\odot \Box$

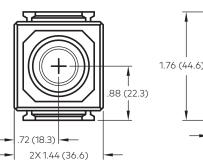
Pressure sensing block

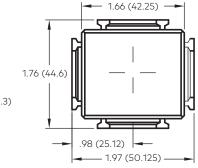


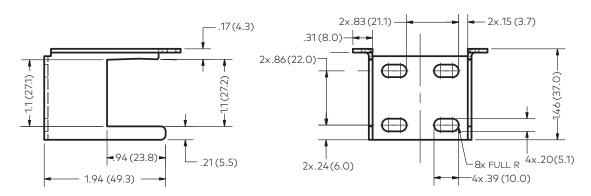
Mounting bracket



Full flow porting block



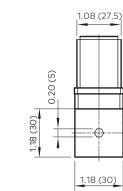






Porting block for 18D pressure switch

1.26 (32) 1.73 (44)





1.38 (35)

2.83 (72)

18D Pressure switch

Dimensions in inches (mm) Projection/Third angle

18 A/C

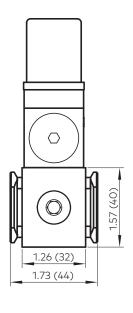
(45)

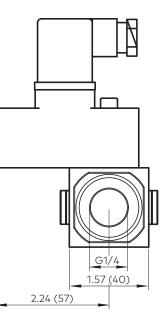
1.77

Π

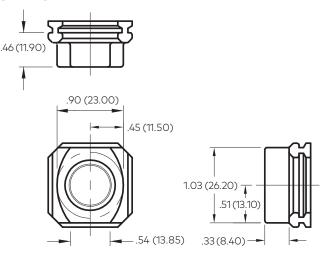


18D Porting block and 18D assembled



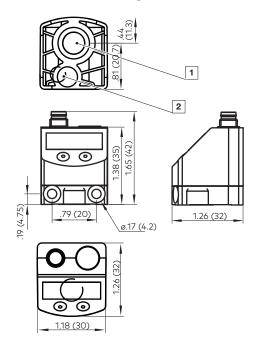


Pipe adapter





54D Pressure switch - digital



Dimensions in inches (mm) Projection/Third angle



Main pressure connection (G1/8)
 Auxiliary pressure connection for differential pressure sensing (M5)

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 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.