

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
- > Ex DoC in accordance with 2014/34/EU/ATEX
- > Air purity class in accordance with ISO8573-1:2010: 1:7:1*

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

Remaining oil content:

0.01 ma/m³ at +21°C (+69°F)

Particle removal:

To 0,01 µm

Port size:

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

Flow:

5.5 dm³/s - Maximum flow to maintain stated oil removal performance at challenge rate of 4 mg/m³, operating pressure: 6,3 bar (91 psi)

Drain:

Manual or automatic Automatic drain operating conditions (float operated): Bowl pressure required to close drain: > 0,35 bar (5 psi) Bowl pressure required to open drain: ≤ 0,2 bar (2.9 psi) Minimum air flow required to close drain: 1 dm³/s.

Ambient/Media temperature:

Polycarbonate bowl: -10 ... +60°C (+14 ... +140°F) Metal bowl:

-20 ... +65°C (-4 ... +149°F) Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

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

Atex:

Filters F82 are in conformity with Atex 2014/34/EU



II 2 GD Ex h IIC T6 Gb EX h IIIC T85°C Db

Materials:

Body: Die cast aluminium Body covers: ABS Transparent Bowl : Polycarbonate with Polypropylene

Metal Bowl: Die cast Zinc with PA liquid level indicator lens Filter element:

Synthetic fibre & PE foam Bowl 'o'- ring: Chloroprene Elastomers: NBR

Technical data F82C—standard models

Symbol	Port Size	Drain	Bowl	Weight (kg)	Model
⊗	G1/4	Auto	Guarded polycarbonate	0,25	F82C-2GD-AP0
	G3/8	Auto	Guarded polycarbonate	0,25	F82C-3GD-AP0
	G1/4	Auto	Metal with level indicator	0,44	F82C-2GD-AD0
	G3/8	Auto	Metal with level indicator	0,44	F82C-3GD-AD0
- ⊗	G1/4	Manual	Guarded polycarbonate	0,25	F82C-2GD-QP0
	G3/8	Manual	Guarded polycarbonate	0,25	F82C-3GD-QP0
	G1/4	Manual	Metal with level indicator	0,44	F82C-2GD-QD0
	G3/8	Manual	Metal with level indicator	0,44	F82C-3GD-QD0





F82C-★★D-★★0 **Option selector** Port size Substitute Substitute ► Bowl 1/4" Transparent with guard (standard) 3/8" 3 Metal with liquid indicator Thread form Substitute (optional) PTF - Drain Substitute ISO G (standard) G

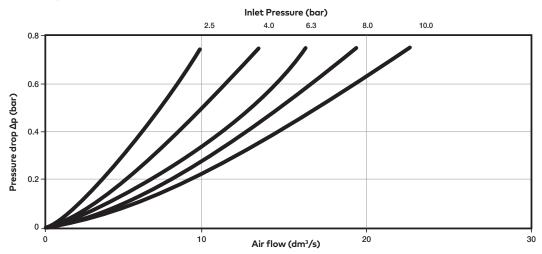
Flow characteristics

Port size: 1/4" Oil Removal Flow

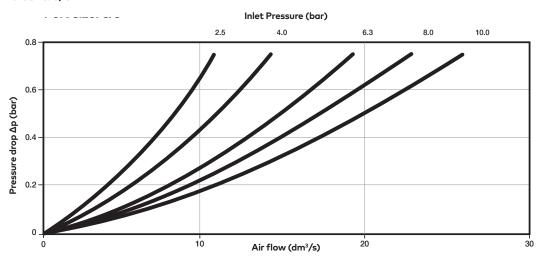
Inlet Pressure (bar)	Flow-rate to maintain media velocity of ISO12500-1 test on oil coalescing filter (dm3/s)
2.5	2,6
4	3,7
6.3	5,5
8	6,8
10	8,3

Dry Flow

Port size: 1/4"



Port size: 3/8"



D

Q

Α

Manual (standard)

Auto drain (standard)



Accessories











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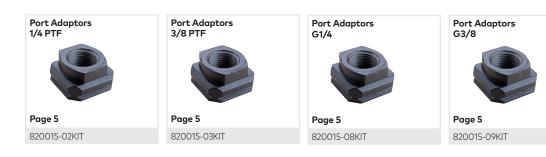
0523109000000000







- *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





Maintenance/Service



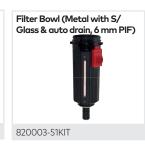




Spare parts













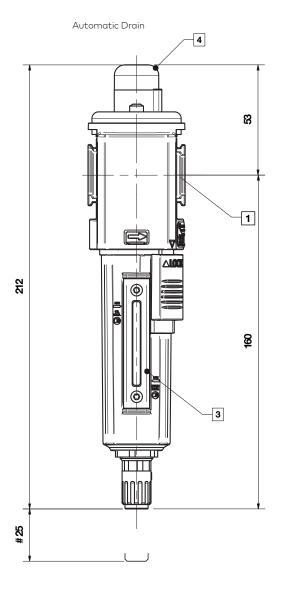


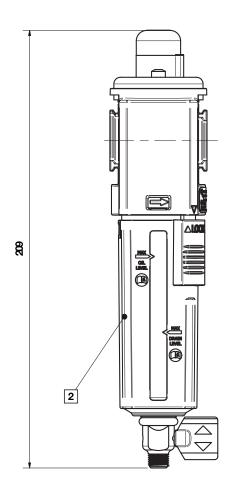
Dimensions

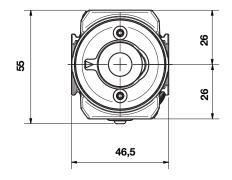
Dimensions in mm Projection/First angle

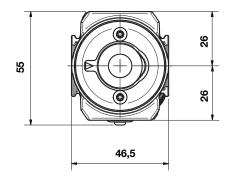


1/4 Turn Manual Drain









- # Minimum clearance required to remove bowl
- 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

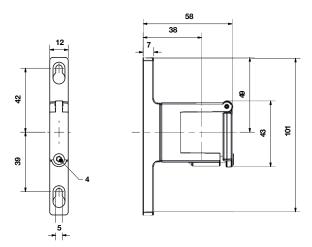
Quikclamp° with wall bracket

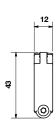
Quikclamp°

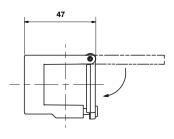
Dimensions in mm Projection/First angle



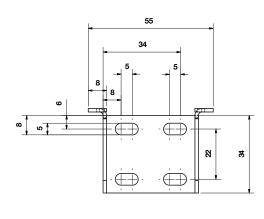


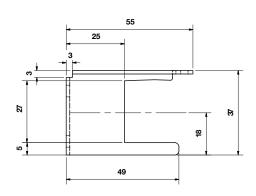




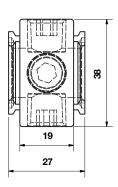


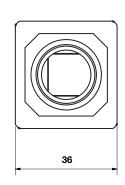
Mounting bracket



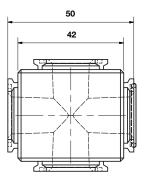


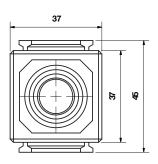
Pressure sensing block





Full flow porting block







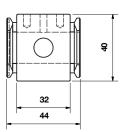
Porting block for 18D pressure switch

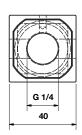
18D Pressure switch

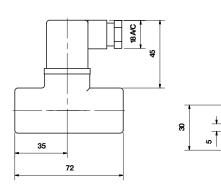
Dimensions in mm Projection/First angle





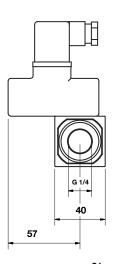


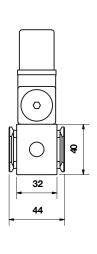


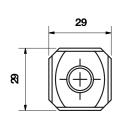


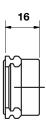
18D Porting block and 18D assembled

Pipe adaptor



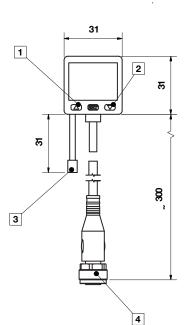


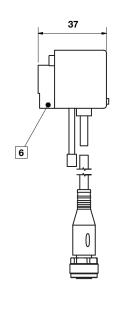






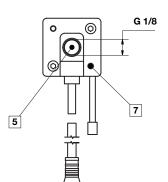
51D Pressure switch - digital





Dimensions in mm Projection/First angle





- Switch OUT 1, green LED
- 2 Switch OUT 2, red LED
- 3 Dustproof protector
- Connector M12 x 1
- 5 Inlet port
- 6 Alternative inlet port G1/8 plugged
- 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 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.