

F84G - General purpose filter Excelon® Plus Modular System



- > Port size: 3/8" ... 3/4" (ISO G/PTF)
- > Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- > 5 or 40 micron particle and high efficiency water removal (> 98%)
- > Double safety lock bowl
- > Light weight polycarbonate bowl
- > Metal bowl with prismatic liquid level indicator lens
- > High Corrosion resistance: Body and Metal bowl with electrophoretic paint finish
- > Air purity classes in accordance to ISO8573-1:2010:
7:8:4 (40µm)
6:8:4 (5µm)
- >  DoC in accordance with 2014/34/EU/ATEX



Technical features

Medium:

Compressed air only

Maximum supply pressure:

Polycarbonate bowl: 10 bar (145 psi)

Metal bowl: 20 bar (290 psi)

Filter element:

5 µm & 40 µm

Port size:

G3/8, G1/2, G3/4,

3/8 PTF, 1/2 PTF, 3/4 PTF

Flow:

78 dm³/s

at port size: 1/2", operating pressure 6,3 bar (91 psi) and a Δp: 0,5 bar (7,25 psi) drop from set.

Filter element: 40 µm

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 (2 scfm)

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).

Atex:

Filters F84 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 Guard.

Metal Bowl: Die cast Aluminium

with PA liquid level indicator lens

Filter element: sintered PP

Bowl 'o'-ring: Chloroprene

Elastomers: NBR

Technical data F84G - standard models

Symbol	Port size	Drain	Filter element (µm)	Bowl	Weight (kg)	Model
	G3/8	Auto	40	Guarded polycarbonate	0,38	F84G-3GN-AP3
	G1/2	Auto	40	Guarded polycarbonate	0,38	F84G-4GN-AP3
	G3/4	Auto	40	Guarded polycarbonate	0,38	F84G-6GN-AP3
	G3/8	Auto	40	Metal with level indicator	0,52	F84G-3GN-AD3
	G1/2	Auto	40	Metal with level indicator	0,52	F84G-4GN-AD3
	G3/4	Auto	40	Metal with level indicator	0,52	F84G-6GN-AD3
	G3/8	Manual	40	Guarded polycarbonate	0,38	F84G-3GN-QP3
	G1/2	Manual	40	Guarded polycarbonate	0,38	F84G-4GN-QP3
	G3/4	Manual	40	Guarded polycarbonate	0,38	F84G-6GN-QP3
	G3/8	Manual	40	Metal with level indicator	0,52	F84G-3GN-QD3
	G1/2	Manual	40	Metal with level indicator	0,52	F84G-4GN-QD3
	G3/4	Manual	40	Metal with level indicator	0,52	F84G-6GN-QD3

Option selector

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Thread form	Substitute
PTF	A
ISO G parallel (standard)	G
Drain	Substitute
Manual (standard)	Q
Auto drain (standard)	A

F84G-★★N-★★★

Element	Substitute
5 µm	1
40 µm (standard)	3
Bowl	Substitute
Transparent with guard (standard)	P
Metal with liquid indicator (optional)	D

Excelon Plus adheres to the following harmonised standard and technical specifications:

2014/34/EU Equipment and protective systems intended for use in potentially explosive atmospheres.

The following harmonised standards and technical specifications have been applied ISO 4414:2010 – Pneumatic fluid power – General rules and safety requirements for systems and their components; ISO 80079-36:2016 – Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements; ISO 80079-37:2016 – Explosive atmospheres

Part 37: Non-electrical equipment for explosive atmospheres – Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k".



II 2 GD

Ex h IIC T6 Gb

Ex h IIIC T85°C Db

ATEX Certification No.: NORGREN 18.0001X

For a copy of the Declaration of Conformity (DoC) please use the link http://cdn.norgren.com/pdf/IM_Excelon_Plus_EN_final.pdf