

B84G - General purpose filter/regulator 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**
- > **Air purity classes in accordance**
to ISO8573-1:2010: 7:8:4 (40µm)
6:8:4 (5µm)
- > **Push to lock adjusting knob with**
built in tamper resistant feature
- > **Light weight Polycarbonate bowl**
- > **Metal bowl with prismatic liquid**
level indicator lens
- > **High Corrosion resistance:**
Body and Metal bowl with
electrophoretic paint finish
- > **Easy to read flush mounted**
gauge as standard, integrated
electronic pressure sensor as
option
- > **Relieving and Non-relieving**
options
- >  **DoC in accordance with**
2014/34/EU/ATEX



Technical features filter/regulator

Medium:

Compressed air only

Maximum supply pressure:

Polycarbonate bowl: 10 bar (145 psi)

Metal bowl: 20 bar (290 psi)

Outlet pressure ranges:

0,3 ... 10 bar (4 ... 145 psi),

0,3 ... 4 bar (4 ... 58 psi) optional

0,7 ... 17 bar (2 ... 250 psi)

optional

Filter element:

5 µm & 40 µm

Port size:

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

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

Gauge:

Integrated as standard

Gauge port 1/8 or electronic
pressure sensor as option

Flow:

100 dm³/s at port size: 1/2",
inlet pressure 10 bar (145 psi),
6,3 bar (91 psi) set pressure and
a Δp: 1 bar (14,5 psi) droop from
set. Filter element: 40 µm

Diaphragm Type:

Relieving and Non-relieving

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:

Filter/regulators B84 are in
conformity with ATEX 2014/34/EU

 II 2 GD

Ex h IIC T6 Gb

EX h IIIC T85°C Db

excluding all versions with
electronic pressure sensor

Materials:

Body: Die cast aluminium

Body covers: ABS

Bonnet: Acetal/ Aluminium

Valve: PP with Geolast seals

Transparent Bowl : Polycar-

bonate with Polypropylene

Guard.

Metal Bowl: Die cast Aluminium

with PA liquid level indicator

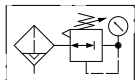
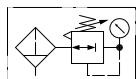
lens

Filter element: sintered PP

Bowl 'o'- ring: Chloroprene

Elastomers: NBR

Technical data B84G - standard models with integrated flush mounted gauge

Symbol	Port size	Drain	Pressure range (bar)	Filter element (µm)	Bowl	Weight (kg)	Model *1)
	G3/8	Auto	0,3 ... 10	40	Guarded polycarbonate	0,73	B84G-3GK-AP3-RMG
	G1/2	Auto	0,3 ... 10	40	Guarded polycarbonate	0,73	B84G-4GK-AP3-RMG
	G3/4	Auto	0,3 ... 10	40	Guarded polycarbonate	0,73	B84G-6GK-AP3-RMG
	G3/8	Auto	0,3 ... 10	40	Metal with level indicator	0,88	B84G-3GK-AD3-RMG
	G1/2	Auto	0,3 ... 10	40	Metal with level indicator	0,88	B84G-4GK-AD3-RMG
	G3/4	Auto	0,3 ... 10	40	Metal with level indicator	0,88	B84G-6GK-AD3-RMG
	G3/8	Manual	0,3 ... 10	40	Guarded polycarbonate	0,73	B84G-3GK-QP3-RMG
	G1/2	Manual	0,3 ... 10	40	Guarded polycarbonate	0,73	B84G-4GK-QP3-RMG
	G3/4	Manual	0,3 ... 10	40	Guarded polycarbonate	0,73	B84G-6GK-QP3-RMG
	G3/8	Manual	0,3 ... 10	40	Metal with level indicator	0,88	B84G-3GK-QD3-RMG
	G1/2	Manual	0,3 ... 10	40	Metal with level indicator	0,88	B84G-4GK-QD3-RMG
	G3/4	Manual	0,3 ... 10	40	Metal with level indicator	0,88	B84G-6GK-QD3-RMG

*1) All models shown here are supplied with brackets and integrated gauge applicable for flow direction left to right

With flow direction right to left please use the online configurator www.norgren.com/air-preparation-configurator or contact Norgren