

B82G - General purpose filter/regulator 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
- 5 or 40 micron particle and high efficiency water removal (> 95%)
- > Double safety lock bowl
- Push to lock adjusting knob with built in tamper resistant feature

- Metal bowl with prismatic liquid level indicator lens
- Light weight
 Polycarbonate bowl with guard
- Easy to read flush mounted integrated pressure gauge
- > Air purity classes in accordance to ISO8573-1:2010: 7:8:4 (40µm) 6:8:4 (5µm)
- > EX 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: 17 bar (246 psi)

Outlet pressure ranges:

0.3 ... 10 bar (4 ... 145 psi), 0.3 ... 4 bar (4 ... 58 psi) optional, 0.7 ... 17 bar (2 ... 246 psi) optional

Filter element:

 $5~\mu m$ & $40~\mu m$

Port size:

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

Gauge:

Integrated as standard Gauge port 1/8 as option

Flow

 $37~dm^3/s$ at port size $1/4^{\prime\prime},$ $37~dm^3/s$ at port size $3/8^{\prime\prime},$ inlet pressure 10 bar (145 psi) , 6.3 bar (91 psi) set pressure and a Δp : 1 bar (14.5 psi) droop from set

Diaphragm Type:

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.

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 B82 are in conformity with Atex 2014/34/EU

(Ex) II 2 GD
Ex h II C T6 Gb

EX h IIIC T85°C Db

Materials:

Body: Die cast aluminum Body covers: ABS Bonnet: Acetal/ Aluminum Valve: PP

Transparent Bowl : Polycarbonate with Polypropylene Guard.

Metal Bowl: Die cast Zinc with PA liquid level indicator lens Filter element: sintered PP Bowl 'O'- ring: Chloroprene Elastomers: NBR

Technical data B82G—standard models

Symbol	Port	Drain	Pressure range (bar)	Filter element (µm)	Bowl	Weight (kg)	Model *1)
	G1/4	Auto	0,3 10	40	Guarded polycarbonate	0,30	B82G-2GK-AP3-RMG
	G3/8	Auto	0,3 10	40	Guarded polycarbonate	0,30	B82G-3GK-AP3-RMG
	G1/4	Auto	0,3 10	40	Metal with level indicator	0,50	B82G-2GK-AD3-RMG
	G3/8	Auto	0,3 10	40	Metal with level indicator	0,50	B82G-3GK-AD3-RMG
	G1/4	Manual	0,3 10	40	Guarded polycarbonate	0,30	B82G-2GK-QP3-RMG
	G3/8	Manual	0,3 10	40	Guarded polycarbonate	0,30	B82G-3GK-QP3-RMG
	G1/4	Manual	0,3 10	40	Metal with level indicator	0,50	B82G-2GK-QD3-RMG
	G3/8	Manual	0,3 10	40	Metal with level indicator	0,50	B82G-3GK-QD3-RMG

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

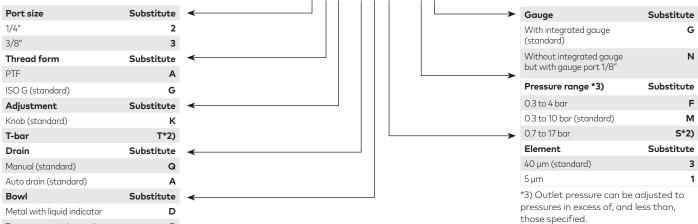
 $With flow direction\ right to\ left\ please\ use\ the\ online\ configurator\ www.norgren.com/air-preparation-configurator\ or\ contact\ Norgren\ configurator\ or\ configurator\ or\ contact\ Norgren\ configurator\ or\ contact\ Norgren\ configurator\ or\ contact\ norgren\ configurator\ or\ contact\ norgren\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





Option selector *1)

B82G-★ ★ ★ - ★ ★ - R ★ ★



^{*1)} All models shown here are applicable for flow direction left to right.

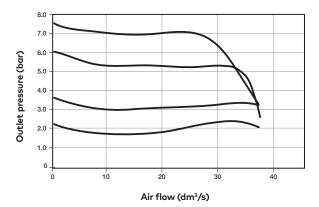
Р

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

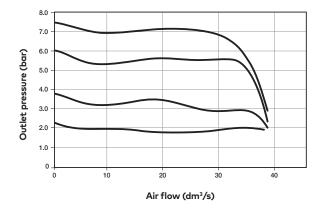
Flow characteristics Inlet pressure: 10 bar (145 psi) Range: 0.3...10 bar (4...145 psi) Port size: 1/4", 5 µm element

Transparent with guard

(standard)



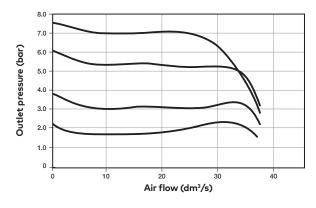
Inlet pressure: 10 bar (145 psi) Range: 0.3...10 bar (4...145 psi) Port size: 3/8", 5 µm element



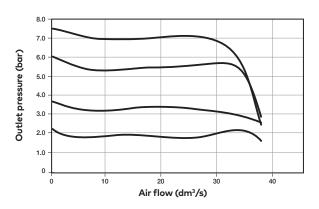
Do not use these units to control pres-

sures outside of the specified ranges.

Inlet pressure: 10 bar (145 psi) Range: 0.3...10 bar (4...145 psi) Port size: 1/4", 40 µm element



Inlet pressure: 10 bar (145 psi) Range: 0.3...10 bar (4...145 psi) Port size: 3/8", 40 µm element



^{*2)} Units with 246 psi (17 bar) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position. T-bar handle only available with 17 bar option.



Accessories































Center back connection, white face





- *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

Gauges (For regulators with gauge port instead of integrated port)



820015-02KIT
820015-03KIT
820015-08KIT
820015-09KIT

(for full technical specification see datasheet 8.900.900)											
Pressure range (bar)*3) (MPa)		(psi)	Ø	Thread size	Model						
0 6	0 0,6	0 84	40 mm	R1/8	18-015-885						
0 10	0 1	0 145	40 mm	R1/8	18-015-989						
0 25	0 2,5	0 362	40 mm	R1/8	18-015-908						

^{*3)} primary scale



Maintenance/Service



























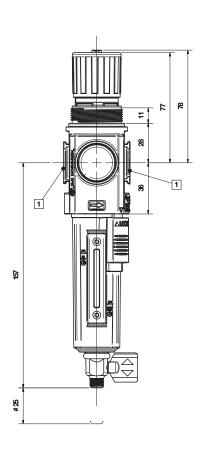
Dimensions

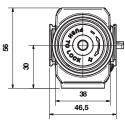
Dimensions in mm Projection/First angle



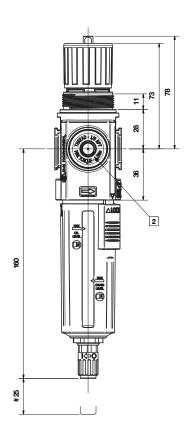


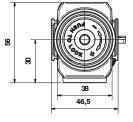
1/4 Turn Manual Drain

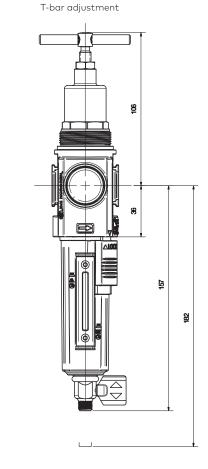


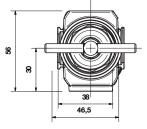


Automatic Drain









- # Minimum clearance for bowl removal
- 1 Main ports 1/4", 3/8" (ISO G/PTF)
- 2 Gauge port Rc 1/8 for ISO G and 1/8 PTF for PTF main ports



Accessories

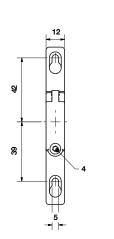
Neck mounting bracket

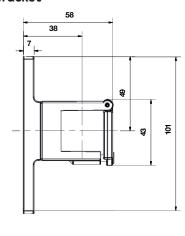
Dimensions in mm Projection/First angle





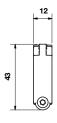
Quikclamp® with wall bracket

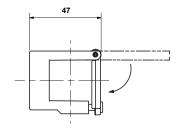




44 15 6 14 32

Quikclamp®

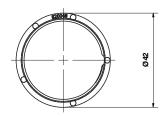




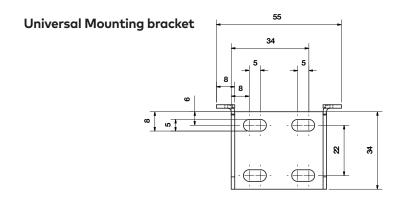
44 30 14 8 88 R22 ♦R18

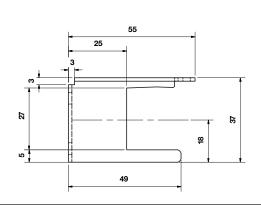
Panel mounting nut





Recommended panel hole size: ø 36.25 ... 36.75 mm Panel thickness: up to 4mm

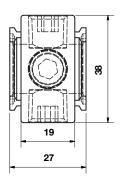


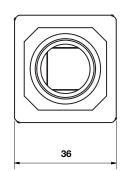




Pressure sensing block

essure sensing block

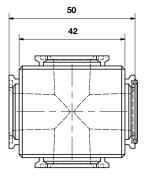


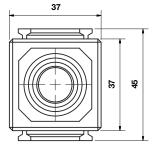


Full flow porting block

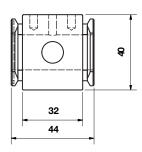
Dimensions in mm Projection/First angle

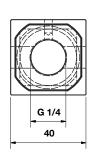




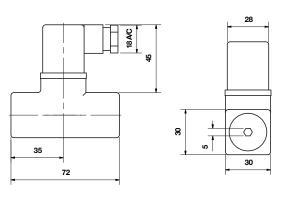


Porting block for 18D pressure switch

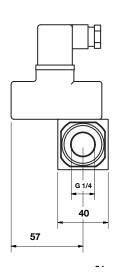


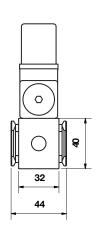


18D Pressure switch

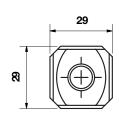


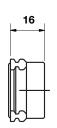
18D Porting block and 18D assembled





Pipe adaptor



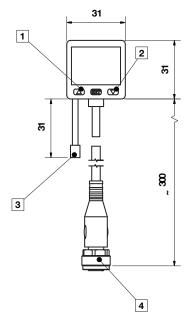


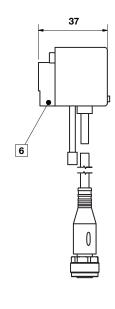


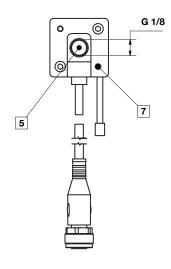
51D Pressure switch - digital

Dimensions in mm Projection/First angle









- 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 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.