> **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**

> **Push to lock adjusting knob with built in tamper resistant feature**

> **Metal bowl with prismatic liquid level indicator lens**

> **Light weight Polycarbonate bowl**

> **Easy to read flush mounted integrated pressure gauge as standard**

Technical features

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 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
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 ... +60ºC (+14 ... +140ºF)
Metal bowl:
-20 ... +65ºC (-4 ... +149ºF)
Air supply must be dry enough
to avoid ice formation at
temperatures below +2°C (+35°F).

Materials:
Body: Die cast aluminium
Body covers: ABS
Bonnet: Acetal/ Aluminium
Valve: PP
Bowl: Transparent PC with PP
guard or die cast aluminium
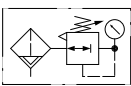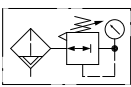Liquid level indicator lens
(metal bowl): PA
Filter element: sintered PP
Bowl 'o'- ring: Chloroprene
Elastomers: NBR

Technical data B84G - standard models

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 integrated gauge applicable for flow direction left to right.
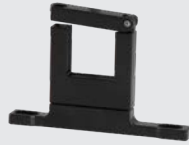With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact IMI Norgren

Option selector *1)

B84G-★★★-★★★-R★★

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Thread form	**Substitute**
PTF	A
ISO G parallel (standard)	G
Adjustment	**Substitute**
Knob (standard)	K
T-bar	T*2)
Drain	**Substitute**
Manual (standard)	Q
Auto drain (standard)	A
Bowl	**Substitute**
Metal with liquid indicator	D
Transparent with guard (standard)	P

Gauge	Substitute
With integrated gauge	G
Without integrated gauge but with gauge port 1/8"	N
Pressure range *3)	**Substitute**
0,3 ... 4 bar	F
0,3 ... 10 bar (standard)	M
0,7 ... 17 bar	S*2)
Element	**Substitute**
40 µm (standard)	3
5 µm	1

*3) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*1) All models shown here are applicable for flow direction left to right. With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact IMI Norgren

*2) Units with 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.

Flow characteristics
Inlet pressure: 10 bar (145 psi)
Port size: 1/2", 40 µm element

Accessories

Quikclamp®	Quikclamp® with bracket assembled	NECK mounting bracket & Panel nut	Panel mounting nut	Mounting bracket
Page 6	Page 6	Page 6	Page 6	Page 6
840014-51KIT	840014-52KIT	840068-51KIT	840048-89KIT	840024-50KIT

Integrated gauge 10 bar gauge	Integrated gauge 20 bar gauge	Gauge adaptor kit 1/8 PTF	Gauge adaptor kit R 1/8	
840073-01KIT	840073-02KIT	840100-01KIT	840100-02KIT	

Pressure sensing block 1/4 PTF	Pressure sensing block G1/4	Padlock	Lockout device	
Page 7	Page 7			
840016-50KIT	840016-51KIT	840055-01KIT	840055-02KIT	

Full flow porting block 3/4 PTF	Full flow porting block G3/4	Pressure switch interface block (18D pressure switch)	Pneumatic pressure switch 18D (0,5 ... 8 bar) *1)	Digital pressure switch 51D (-1 ... 10 bar) *2)
Page 7	Page 7	Page 7	Page 7	Page 8
840028-50KIT	840028-53KIT	0337717000000000	0881300	0860810

*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

Port Adaptors

Page 7	
3/8 PTF	840015-02KIT
1/2 PTF	840015-03KIT
3/4 PTF	840015-04KIT
G3/8	840015-10KIT
G1/2	840015-11KIT
G3/4	840015-12KIT

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

Center back connection, white face
(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	50 mm	R1/8	18-015-012
0 ... 10	0 ... 1	0 ... 145	50 mm	R1/8	18-015-013
0 ... 25	0 ... 2,5	0 ... 362	50 mm	R1/8	18-015-014

*3) primary scale

Maintenance/Service

Auto drain kit with metal Nut - Imperial	Auto drain kit with metal Nut - Metric	R84 / B84 Elastomer Kit	Filter cartridges 5 micron	Filter cartridges 40 micron
6000-61KIT	6000-60KIT	FRLB84-KIT	840038-50KIT	840038-51KIT

Spare parts

Filter Bowl (Guarded Poly bowl with auto drain 6 mm PIF)	Filter Bowl (Guarded Poly bowl with manual drain)	Filter Bowl (Metal with S/Glass & auto drain, 6 mm PIF)	Filter Bowl (Metal with S/Glass & manual drain)
840025-51KIT	840025-50KIT	840003-51KIT	840003-50KIT

Filter Bowl (Guarded Poly bowl with auto drain, 1/4 PIF)	Filter Bowl (Metal with S/Glass & auto drain, 1/4 PIF)
840025-53KIT	840003-56KIT

Dimensions

Dimensions in mm
Projection/Third angle
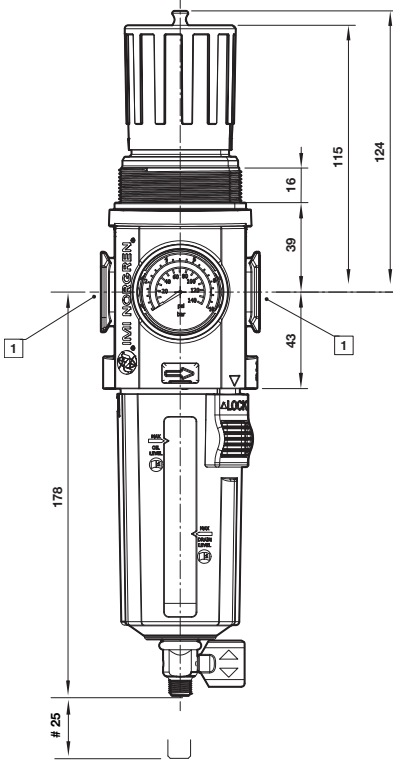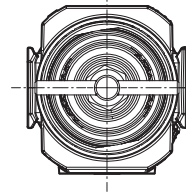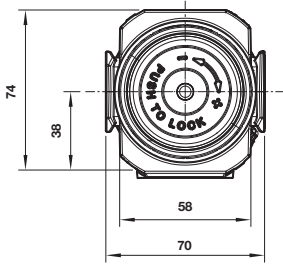
1/4 Turn Manual Drain

With knob
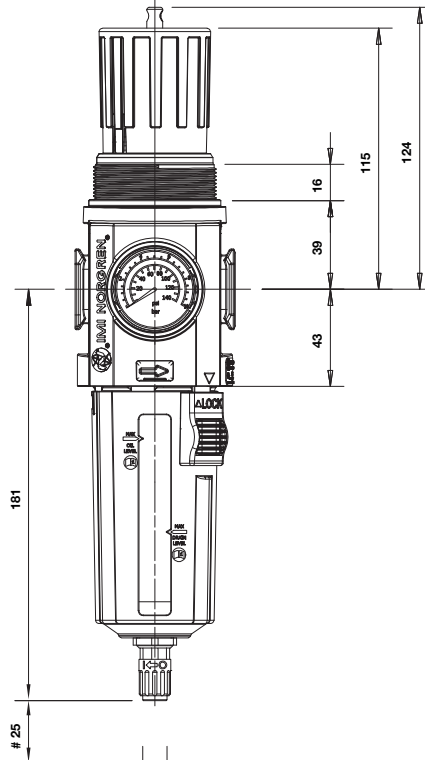
Automatic Drain
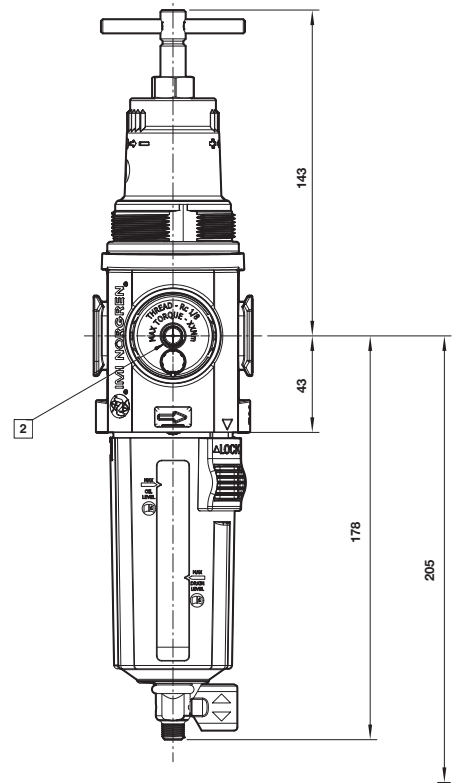
1/4 Turn Manual Drain

With T-bar

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

Accessories

Dimensions in mm
Projection/Third angle
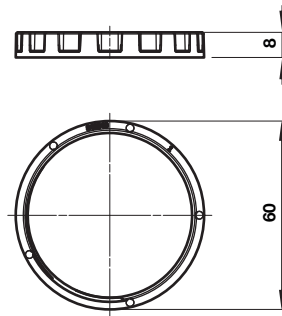
Quikclamp® with wall bracket
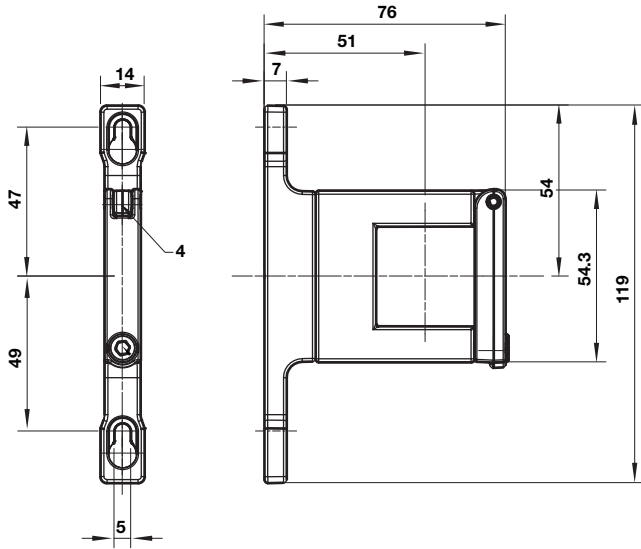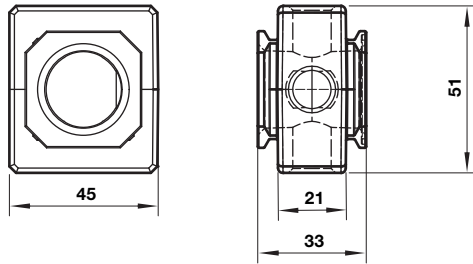

Quikclamp®
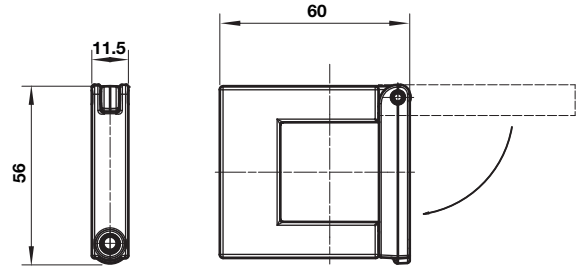
Neck mounting bracket
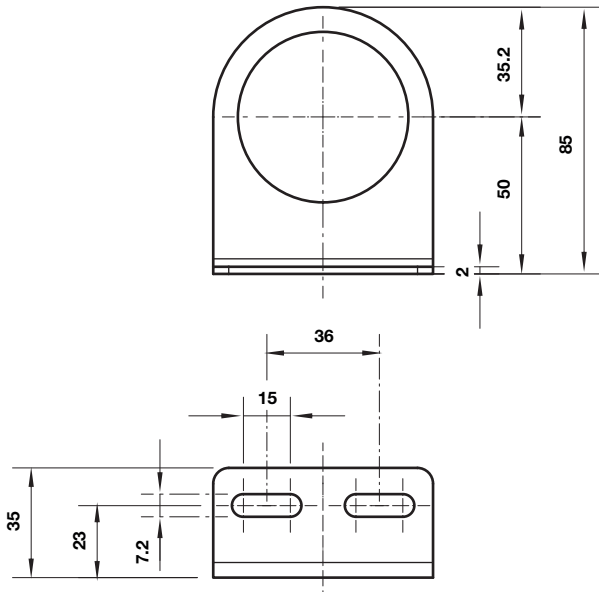
Panel mounting nut

Mounting bracket
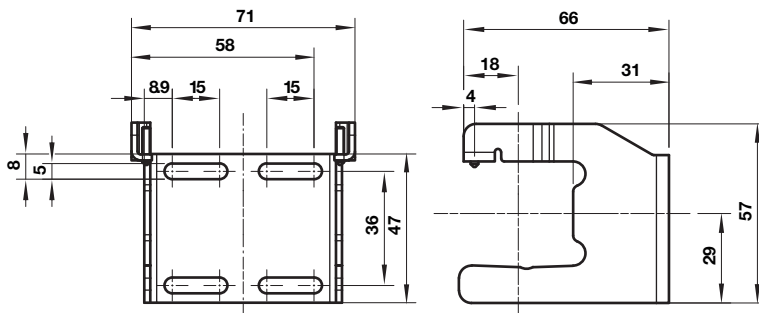
Pressure sensing block

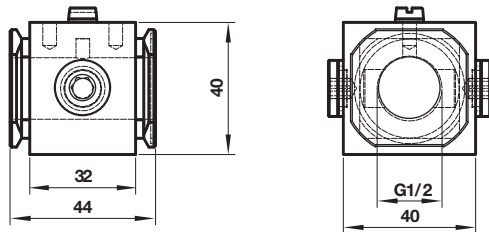## Full flow porting block

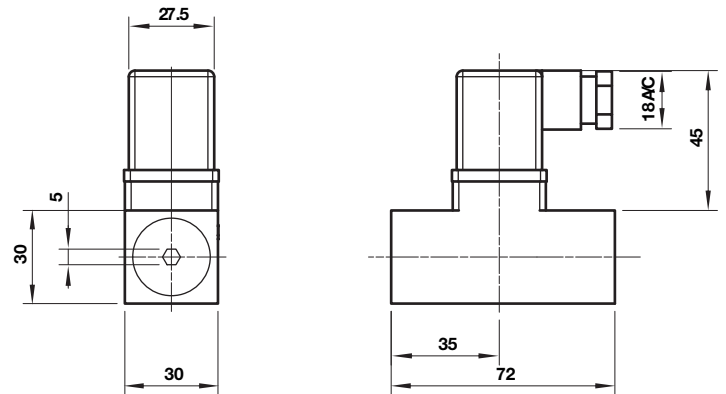Dimensions in mm
Projection/Third angle
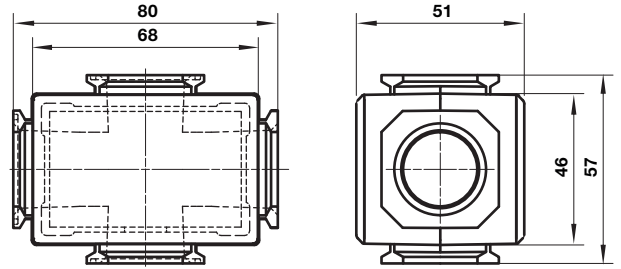
Porting block for 18D pressure switch

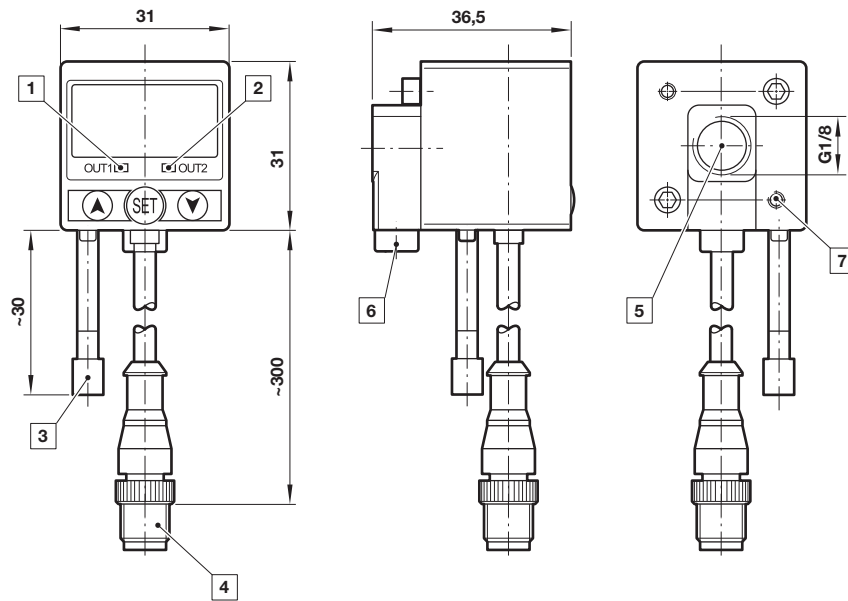## 18D Pressure switch

18D Porting block and 18D assembled

Pipe adaptor

en 8.200.350.07
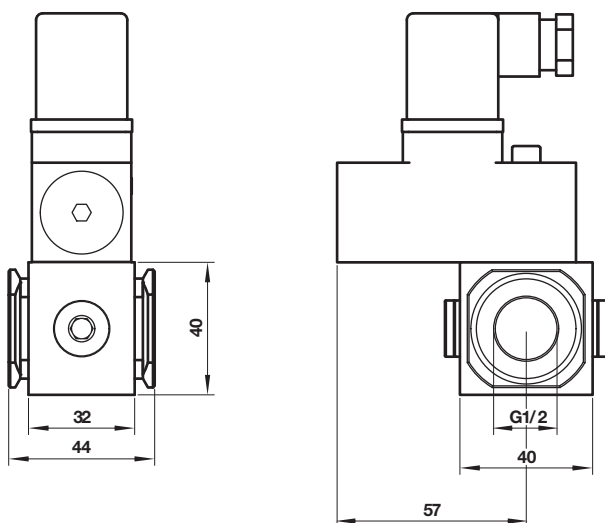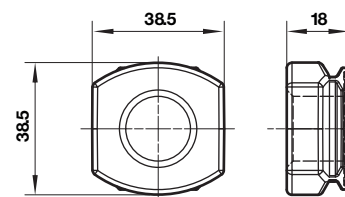
51D Pressure switch - digital

Dimensions in mm
Projection/Third angle

31

36,5

31

G1/8

~30

~300

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 IMI Precision Engineering, 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.