

Industrial Automation

IMI Norgren

BL84 — Filter/regulator–Lubricator Combination Units Excelon® Plus Modular System

- Port size: 3/8" to 3/4" (PTF/ISO G)
- Quickclamp connection system offers full modularity
- 40 micron particle and high efficiency water removal (>98%)
- Easy to read flush mounted integrated pressure gauge as standard, integrated electronic pressure sensor as option
- Shut off valve & filter/regulator with tamper resistant feature
- Metal bowl with prismatic liquid level indicator lens
- High corrosion resistance: body and metal bowl with electrophoretic paint finish
- All round (360°) visibility of sight dome for ease of lubricator drip rate setting

Technical features

Medium: Compressed air only

Maximum supply pressure: Polycarbonate bowl: 145 psi (10 bar) Metal bowl: 290 psi (20 bar)

Outlet pressure ranges: 4 to 145 psi (0.3 to 10 bar),

Filter element: 40 µm **Drain:** Manual or automatic

Port size: G3/8, G1/2, G3/4, 3/8 PTF, 1/2 PTF, 3/4 PTF

Gauge: Integrated as standard

Diaphragm Type: Relieving Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: > 5 psi (0.35 bar) Bowl pressure required to open drain: \leq 2.9 psi (0.2 bar) Minimum air flow required to close drain: 2 scfm (1 dm³/s)

Ambient/Media temperature: Polycarbonate bowl: +14 to +140°F (-10 to +60°C) Metal bowl: -4 to +149°F (-20 to +65°C) Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C)

Materials:

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

Technical data BL84-standard models with shut off valve, automatic drain, and micro fog lubricator

Symbol	Port size PTF	Bowl type	Weight lbs. (kg)	Model *1)
	3/8	Polycarbonate with guard	3.6 (1.7)	BL84-301A
	1/2	Polycarbonate with guard	3.6 (1.7)	BL84-401A
	3/4	Polycarbonate with guard	3.6 (1.7)	BL84-601A
	3/8	Metal with sight glass	4.2 (1.9)	BL84-351A
	1/2	Metal with sight glass	4.2 (1.9)	BL84-451A
	3/4	Metal with sight glass	4.2 (1.9)	BL84-651A

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

Other models can be configured using the option selector below or by visiting https://imiplc.com/industrial-automation



Port size	Substitute	← Thread form	Substitute
3/8"	3	PTF	4
1/2"	4	ISO G parallel	C
3/4"	6	Accessories	Substitute
Units	Substitute	< Shut-off valve &	-
Filter/Regulator w. auto drain, Micro fog lubricator, Polycarbonate bowls	0	gauge & brackets Gauge & bracket	Ę
Filter/Regulator w. auto drain, Oil fog lubricator, Polycarbonate bowls	1		
Filter/Regulator w. manual drain, Micro fog lubricator, Polycarbonate bowls	2		
Filter/Regulator w. manual drain, Oil fog lubricator, Polycarbonate bowls	3		
Filter/Regulator w. auto drain, Micro fog lubricator, Metal bowls	5		
Filter/Regulator w. auto drain, Oil fog lubricator, Metal bowls	6		
Filter/Regulator w. manual drain, Micro fog lubricator, Metal bowls	7		
Filter/Regulator w. manual	8		

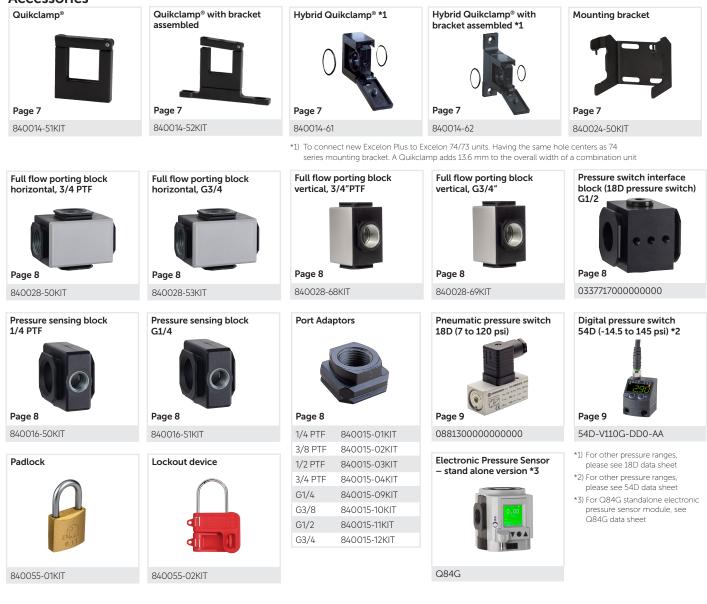
flow direction left to right. With flow direction right to left please use the online configurator www.imiplc.com/industrial-automation or contact IMI Norgren

> In addition to the standard box set units shown on this data sheet, further combinations can be configured using our online Air Preparation configurator:

www.imiplc.com/industrial-automation



Accessories



IO-Link cables

Connection cable M8x1 for intergated digital pressure switch						
Description	Cable length ft. (m)	Model				
	2 (0.6)	NC-084FS-124MS-A				
M8 female to M12 male	3.3 (1.0)	NC-084FS-124MS-1				
M8 female to MI2 male	6.6 (2.0)	NC-084FS-124MS-2				
	16.4 (5.0)	NC-084FS-124MS-5				
M8 female to free end	9.8 (3.0)	NC-084FS-00000-3				



Silencer

Porous plastic silencer *3) G1/4





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Sinter bronze silencer *3) 1/4 PTF



*3) Max. pressure of silencers listed in this data sheet : 145 psi. For pressure higher than 145 psi please contact IMI Norgren

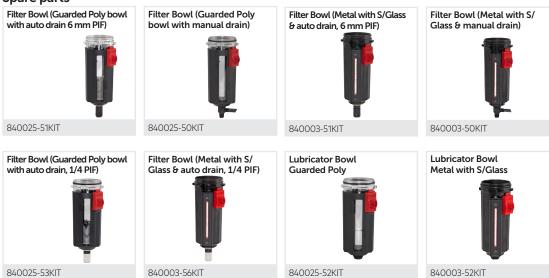
Maintenance/Service



MS002A



Spare parts

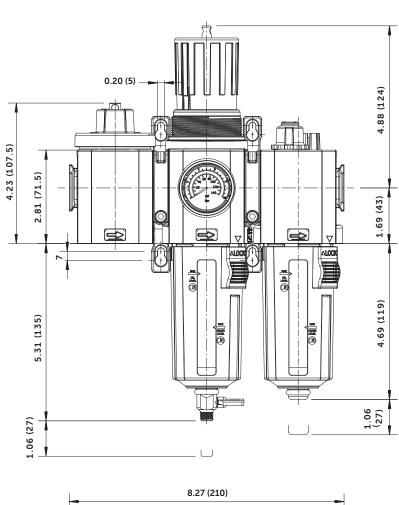


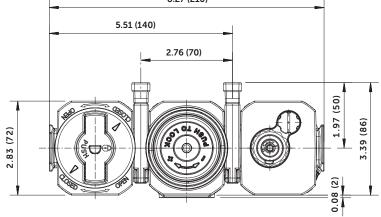


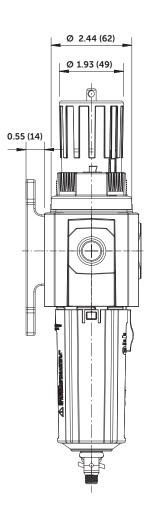


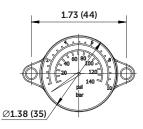
Dimensions

Shut-off valve, Filter/Regulator and Lubricator







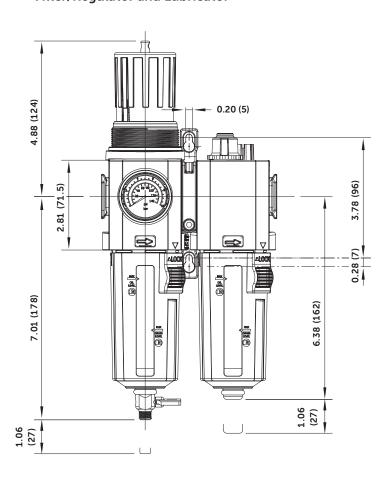


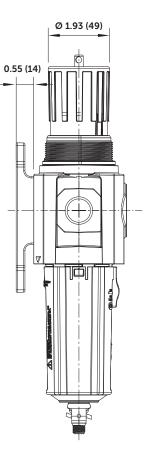
Minimum clearance for bowl removal

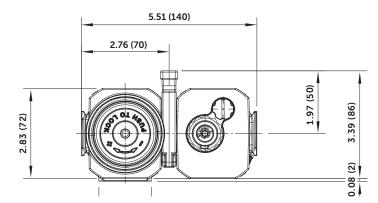


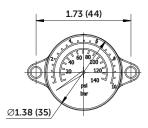


Dimensions Filter/Regulator and Lubricator









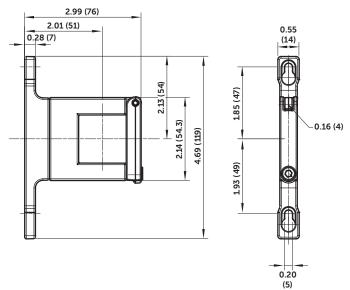
Minimum clearance for bowl removal



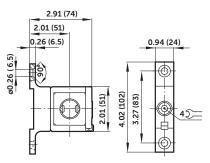


Accessories

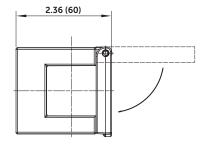
Quikclamp[®] with wall bracket

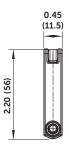


Hybrid-Quikclamp® with wall bracket

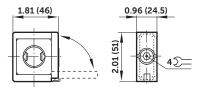


Quikclamp[®]

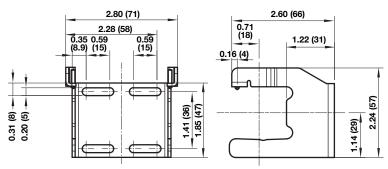




Hybrid-Quikclamp®



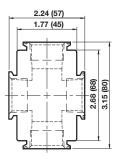
Mounting bracket



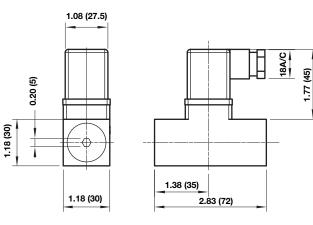


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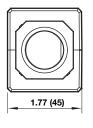
Full flow vertical porting block

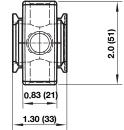


18D Pressure switch

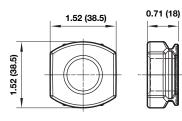


Pressure sensing block





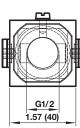
Pipe adaptor



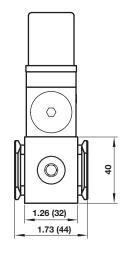
1.57 (40)

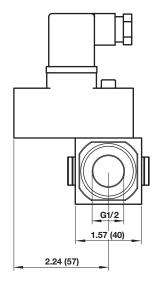
Porting block for 18D pressure switch



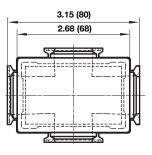


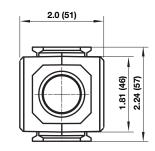
18D Porting block and 18D assembled





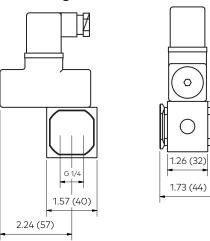
Full flow porting block







18D Porting block and 18D assembled



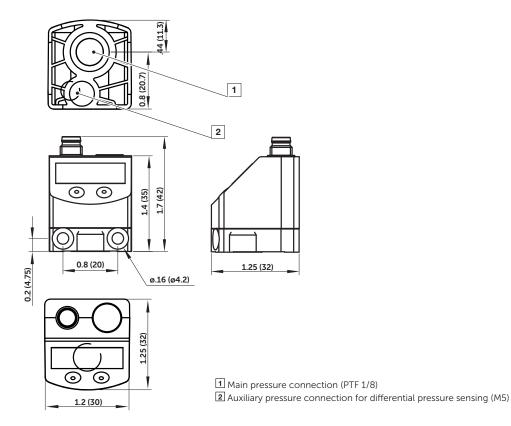
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18D Pressure switch

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54D Pressure switch - digital



Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

Proposition 65: These products may contain chemicals known to the state of California to cause cancer, or birth defects, or other reproductive harm.