

- Port size: 1/4" to 3/8" (PTF/ISO G)
- 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



Technical features

Medium:

Compressed air only

Maximum supply pressure:

Polycarbonate bowl: 145 psi (10 bar) Metal bowl: 246 psi (17 bar)

Outlet pressure ranges:

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

Filter element:

5 μm & 40 μm

Port size:

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

Gauge:

Integrated as standard Gauge port 1/8 as option

Diaphragm Type:

Relieving

Flow:

79 scfm (37 dm 3 /s) at port size 1/4", 79 scfm (37 dm 3 /s) at port size 3/8", inlet pressure 145 psi (10 bar), operating pressure 91 psi (6.3 bar) and a Δ p: 7.25 psi (0.5 bar) drop from set. Filter element: 40 μ m

Drain:

Manual or automatic

Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: > 5 psi (0.35 bar) Bowl pressure required to open drain: ≤ 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

Bowl: Transparent PC with PP guard or die cast zinc Liquid level indicator lens (metal bowl): PA

Filter element: sintered PP Bowl 'o'- ring: Chloroprene Elastomers: NBR

Technical data B82G

Symbol	Port Size (PTF)	Drain	Pressure range psi (bar)	Filter element (µm)	Bowl	Weight lb (kg)	Model *1
	1/4	Auto	4 to 145 (0.3 to 10)	40	Guarded polycarbonate	0.6 (0.3)	B82G-2AK-AP3-RMG
	3/8	Auto	4 to 145 (0.3 to 10)	40	Guarded polycarbonate	0.6 (0.3)	B82G-3AK-AP3-RMG
	1/4	Auto	4 to 145 (0.3 to 10)	40	Metal with level indicator	1.1 (0.5)	B82G-2AK-AD3-RMG
	3/8	Auto	4 to 145 (0.3 to 10)	40	Metal with level indicator	1.1 (0.5)	B82G-3AK-AD3-RMG
	1/4	Manual	4 to 145 (0.3 to 10)	40	Guarded polycarbonate	0.6 (0.3)	B82G-2AK-QP3-RMG
	3/8	Manual	4 to 145 (0.3 to 10)	40	Guarded polycarbonate	0.6 (0.3)	B82G-3AK-QP3-RMG
	1/4	Manual	4 to 145 (0.3 to 10)	40	Metal with level indicator	1.1 (0.5)	B82G-2AK-QD3-RMG
	3/8	Manual	4 to 145 (0.3 to 10)	40	Metal with level indicator	1.1 (0.5)	B82G-3AK-QD3-RMG

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

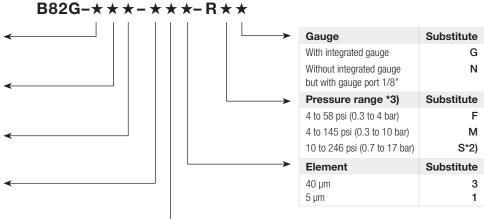
With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact IMI Norgren





Option selector *1)

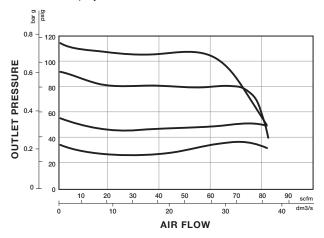




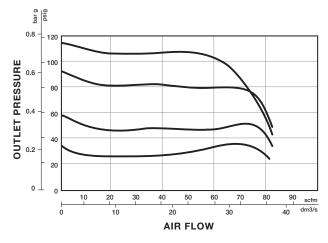
- *1) All models shown here are applicable for flow direction left to right. With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact IMI Norgren
- *2) Units with 246 psi (17 bar) outlet pressure range are available only with the T-bar adjustment and metal bowl; therefore substitute T at the 7th position, D at the 9th position, and S at the 12th position. T-bar handle only available with 17 bar option.
- *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.

Flow characteristics

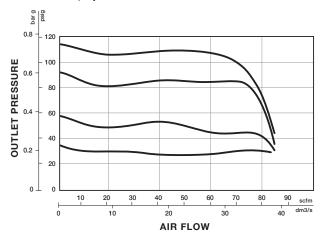
Inlet pressure: 145 psi (10 bar) Range: 4 to 145 psi (0.3 to 10 bar) Port size: 1/4", 5 µm element



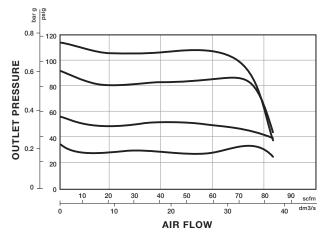
Inlet pressure: 145 psi (10 bar) Range: 4 to 145 psi (0.3 to 10 bar) Port size: 1/4", 40 µm element



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



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





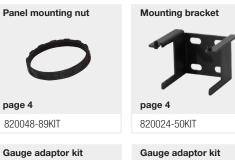
Accessories















Integrated gauge



Integrated gauge











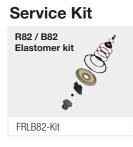












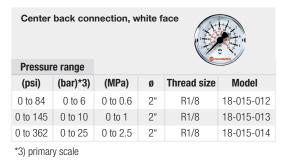


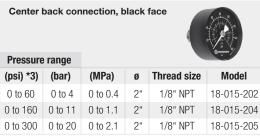






Gauges (For regulators with gauge port instead of integrated port)





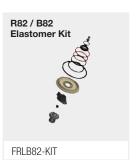
^{*3)} primary scale



Maintenance/Service



















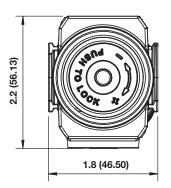


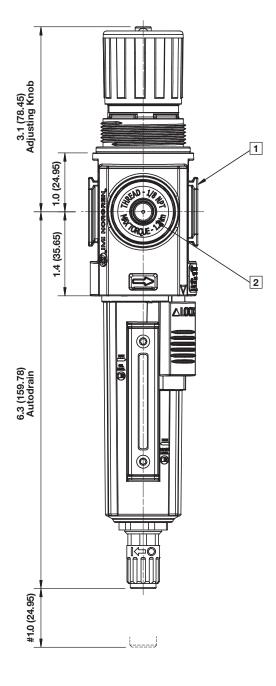


Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2017 - 9217b) © 2019 Norgren Ltd



Dimensions

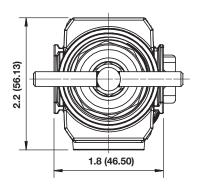


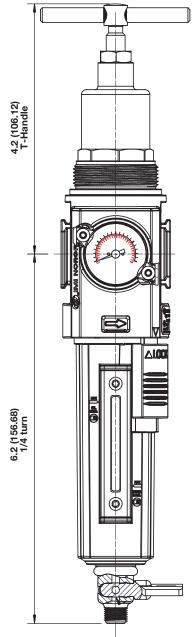


Dimensions in inches (mm) Projection/Third angle









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

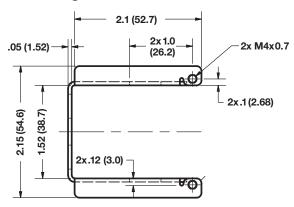


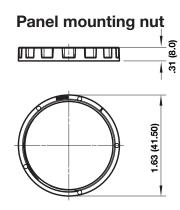
Dimensions in inches (mm) Projection/Third angle

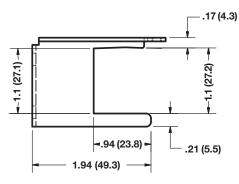
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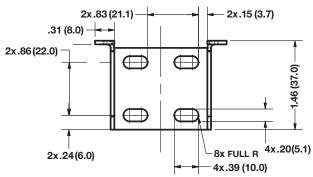
Accessories

Mounting bracket

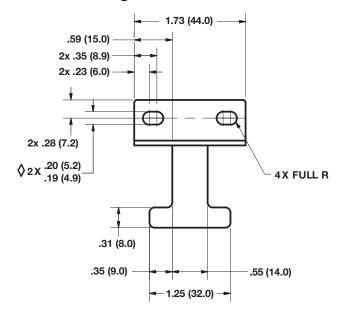


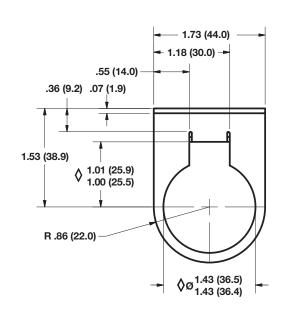






Neck mounting bracket





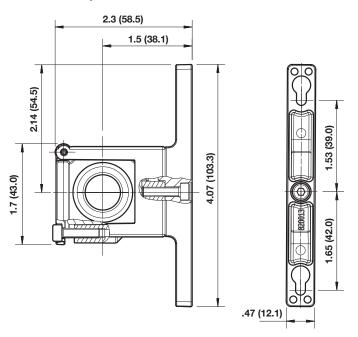
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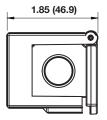
Dimensions in inches (mm) Projection/Third angle

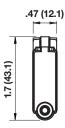


Quikclamp® with wall bracket

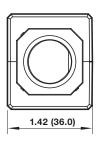


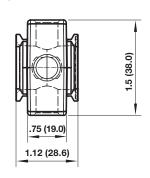
Quikclamp®



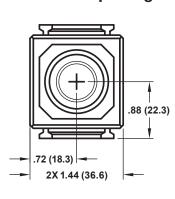


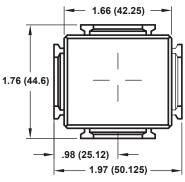
Pressure sensing block



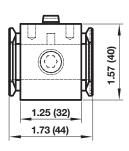


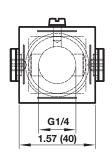
Full flow porting block



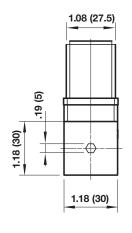


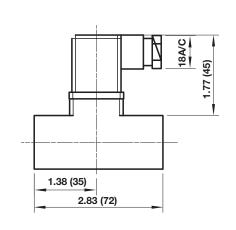
Porting block for 18D pressure switch





18D Pressure switch



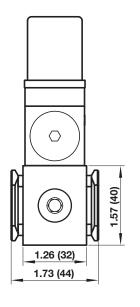


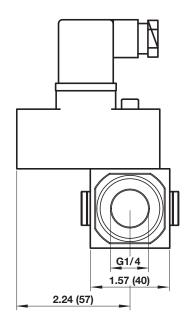


Dimensions in inches (mm)

.33 (8.40) -

18D Porting block and 18D assembled

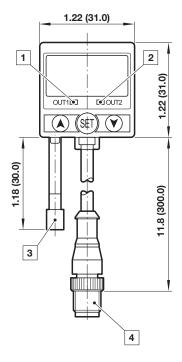


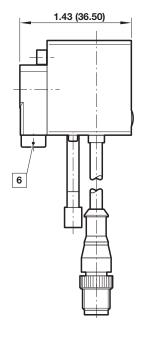


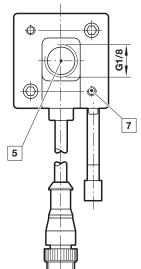
Pipe adaptor Projection/Third angle .46 (11.90) .90 (23.00) .45 (11.50) 1.03 (26.20) .51 (13.10)

.54 (13.85)

51D Pressure switch - digital







- 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
- 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.

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