

- > **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 dm³/s) at port size 1/4",

79 scfm (37 dm³/s) at port size 3/8",

inlet pressure 145 psi (10 bar),

operating pressure 91 psi (6.3 bar)

and a Δp: 7.25 psi (0.5 bar) drop

from set. Filter element: 40 µm

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

PP guard or die cast zinc

Liquid level indicator lens

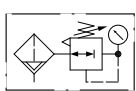
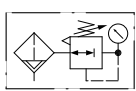
(metal bowl): PA

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)

B82G-★ ★ ★ - ★ ★ ★ - R ★ ★

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

Gauge	Substitute
With integrated gauge	G
Without integrated gauge but with gauge port 1/8"	N
Pressure range *3)	Substitute
4 to 58 psi (0.3 to 4 bar)	F
4 to 145 psi (0.3 to 10 bar)	M
10 to 246 psi (0.7 to 17 bar)	S*2)
Element	Substitute
40 µm	3
5 µm	1

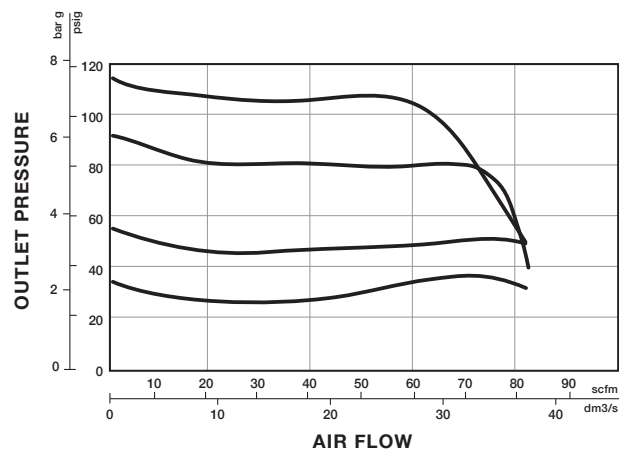
*1) All models shown here are applicable for flow direction left to right. With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact IMI Norgren

*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.

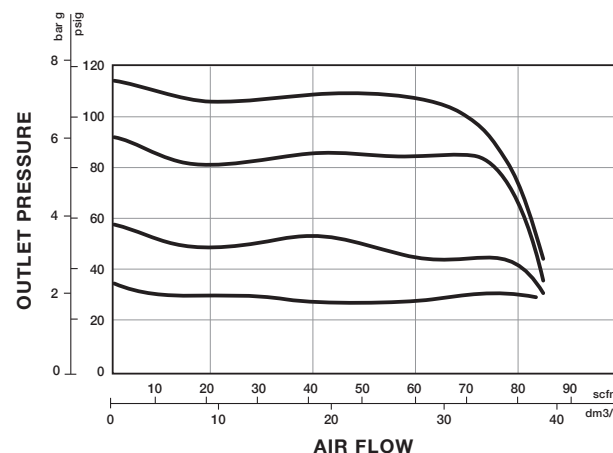
*3) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Flow characteristics

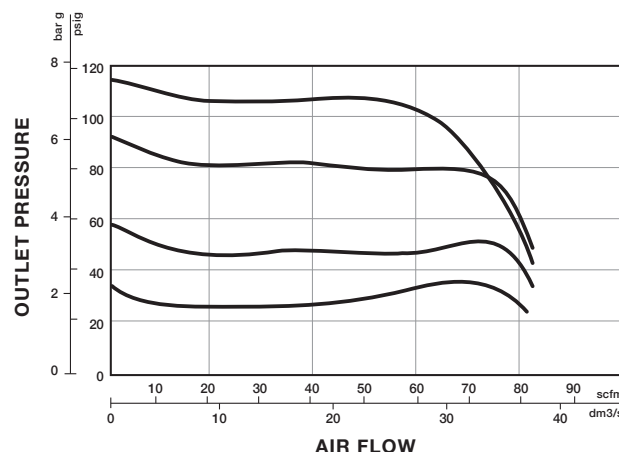
Inlet pressure: 145 psi (10 bar)
Range: 4 to 145 psi (0.3 to 10 bar)
Port size: 1/4", 5 µm element



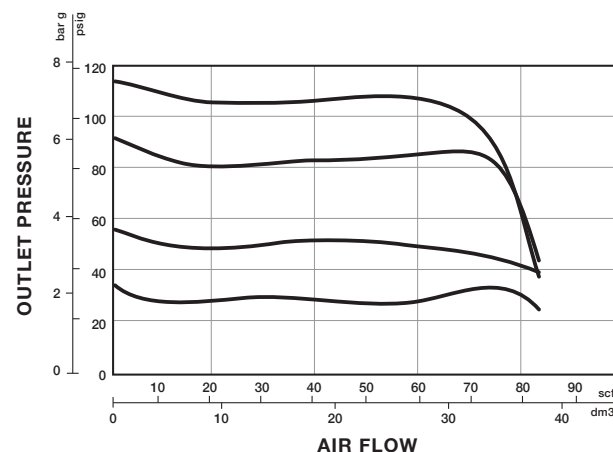
Inlet pressure: 145 psi (10 bar)
Range: 4 to 145 psi (0.3 to 10 bar)
Port size: 3/8", 5 µm element




















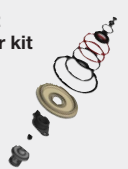
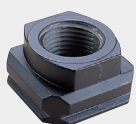
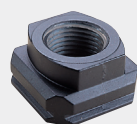
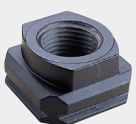
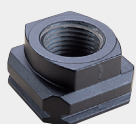
Inlet pressure: 145 psi (10 bar)
Range: 4 to 145 psi (0.3 to 10 bar)
Port size: 1/4", 40 µm element



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



Accessories

Quickclamp®  page 3 820014-51KIT	Quickclamp® with bracket assembled  page 3 820014-52KIT	Neck mounting bracket and panel nut  page 4 820068-51KIT	Panel mounting nut  page 4 820048-89KIT	Mounting bracket  page 4 820024-50KIT
Integrated gauge 10 bar gauge  820073-01KIT	Integrated gauge 20 bar gauge  820073-02KIT	Integrated gauge 4 bar gauge  820073-03KIT	Gauge adaptor kit 1/8 PTF  820100-01KIT	Gauge adaptor kit R 1/8  820100-02KIT
Pressure sensing block 1/4 PTF  page 4 820016-50KIT	Pressure sensing block G1/4  page 4 820016-51KIT	Padlock  840055-01KIT	Lockout device  840055-02KIT	Digital pressure switch 51D (-14 to 145 psi)  page 5 0860811000000000
Full flow porting block 3/8 PTF  page 4 820028-50KIT	Full flow porting block G3/8  page 4 820028-53KIT	Pressure switch interface block (18D pressure switch) G1/4  page 5 0523109000000000	Pneumatic pressure switch 18D (7 to 120 psi)  page 5 0881300000000000	Service Kit R82 / B82 Elastomer kit  FRLB82-Kit
Port Adaptors 1/4 PTF  page 5 820015-02KIT	Port Adaptors 3/8 PTF  page 5 820015-03KIT	Port Adaptors G1/4  page 5 820015-08KIT	Port Adaptors G3/8  page 5 820015-09KIT	

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

Center back connection, white face					
Pressure range					
(psi)	(bar)*3)	(MPa)	Ø	Thread size	Model
0 to 84	0 to 6	0 to 0.6	2"	R1/8	18-015-012
0 to 145	0 to 10	0 to 1	2"	R1/8	18-015-013
0 to 362	0 to 25	0 to 2.5	2"	R1/8	18-015-014

*3) primary scale

Gauges

Center back connection, black face					
Pressure range					
(psi) *3)	(bar)	(MPa)	Ø	Thread size	Model
0 to 60	0 to 4	0 to 0.4	2"	1/8" NPT	18-015-202
0 to 160	0 to 11	0 to 1.1	2"	1/8" NPT	18-015-204
0 to 300	0 to 20	0 to 2.1	2"	1/8" NPT	18-015-205

*3) primary scale

Maintenance/Service

**Auto drain kit with
metal Nut - Inch**



6000-61KIT

**Auto drain kit with
metal Nut - Metric**



6000-60KIT

**R82 / B82
Elastomer Kit**



FRLB82-KIT

**Filter cartridges
5 micron**



820038-50KIT

**Filter cartridges
40 micron**



820038-51KIT

**Filter Bowl
(Guarded Poly bowl with
auto drain 6 mm PIF)**



820025-51KIT

**Filter Bowl
(Guarded Poly bowl
with manual drain)**



820025-50KIT

**Filter Bowl
(Metal with S/Glass
& auto drain, 6 mm PIF)**



820003-51KIT

**Filter Bowl
(Metal with S/Glass
& manual drain)**



820003-50KIT

**Filter Bowl
(Guarded Poly bowl
with auto drain, 1/4 PIF)**



820025-53KIT

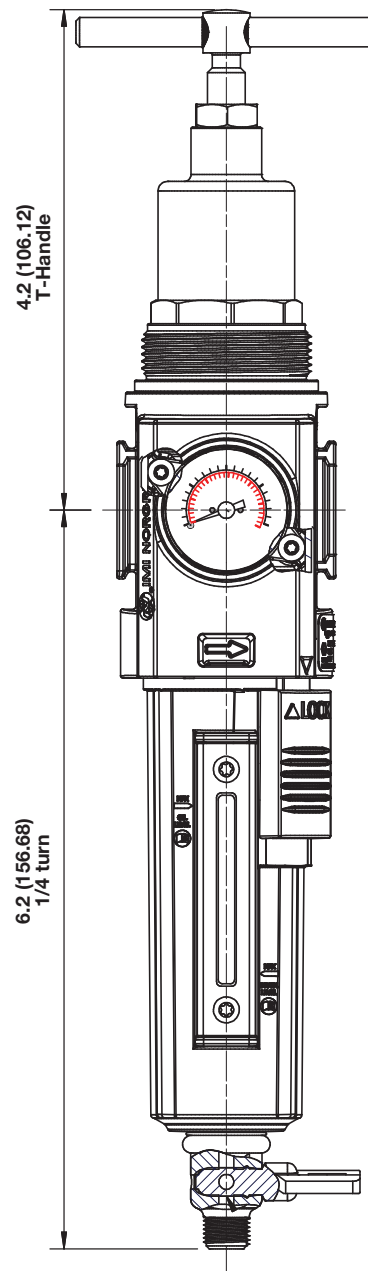
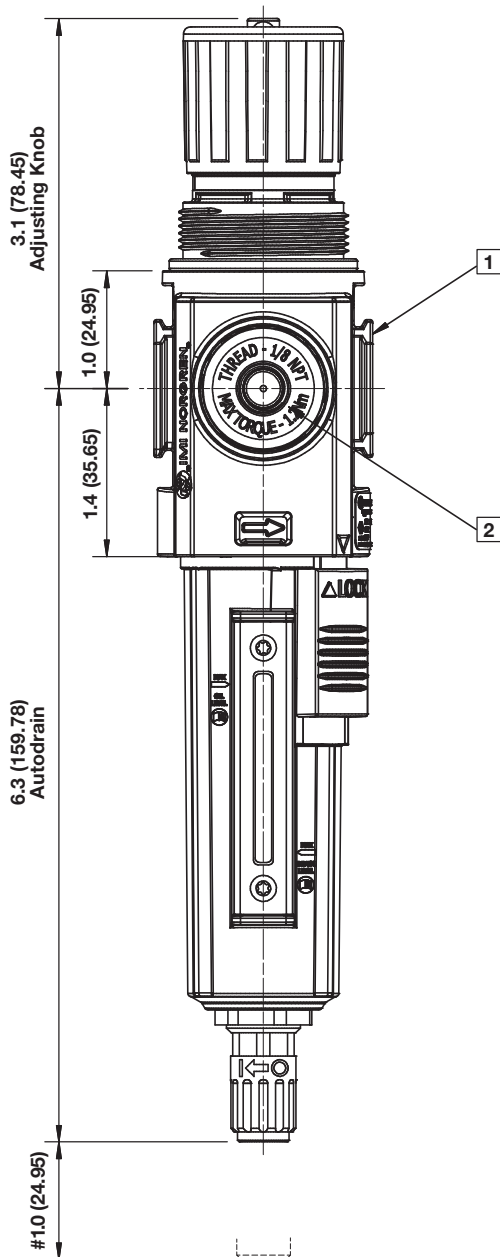
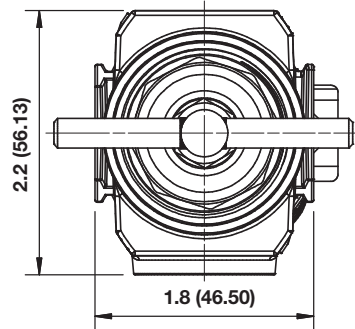
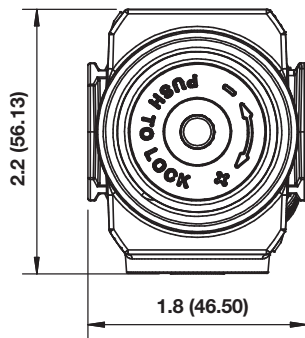
**Filter Bowl
(Metal with S/Glass
& auto drain, 1/4 PIF)**



820003-56KIT

Dimensions

Dimensions in inches (mm)
 Projection/Third angle



Minimum clearance for bowl removal

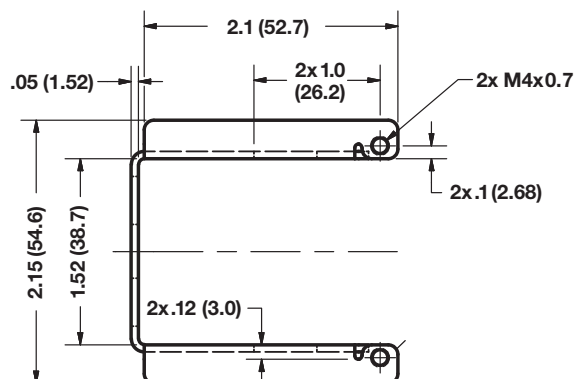
- 1 Main ports 1/4", 3/8" (ISO G/PTF)
- 2 Gauge port Rc 1/8 for ISO G and 1/8 PTF for PTF main ports



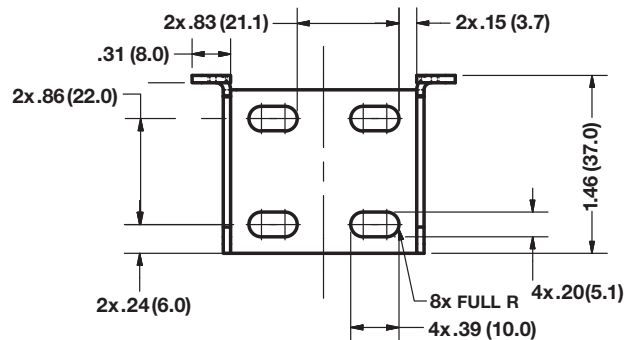
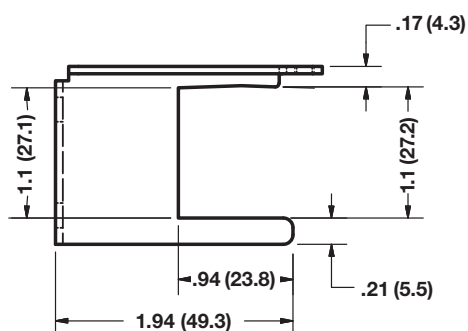
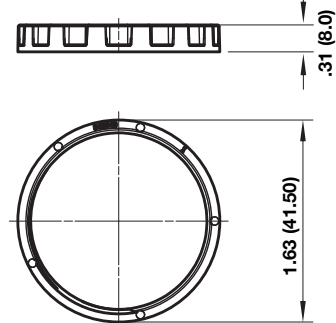
Dimensions in inches (mm)
Projection/Third angle

Accessories

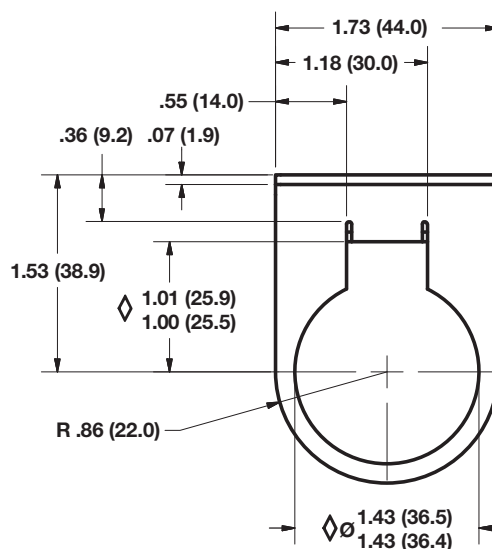
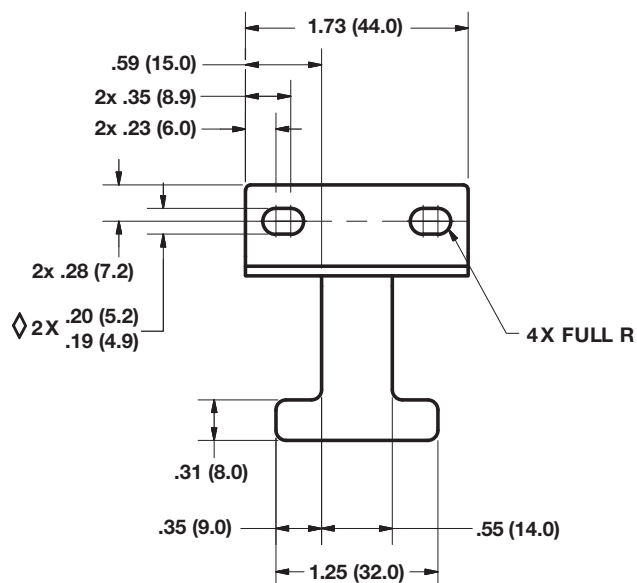
Mounting bracket

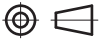
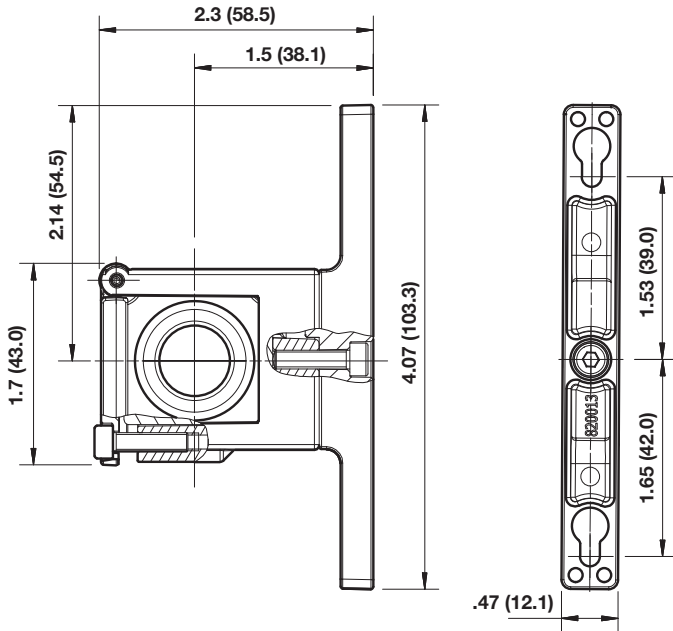
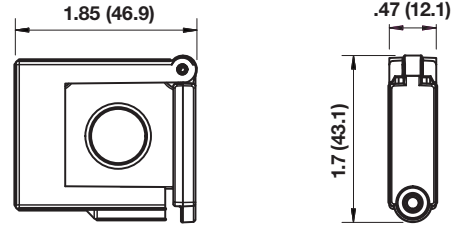
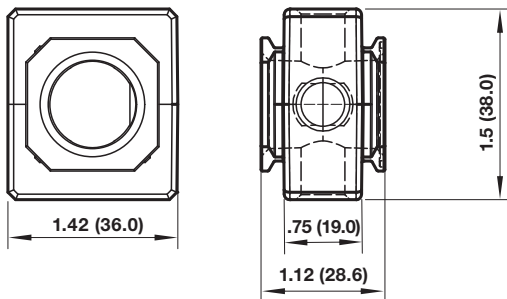
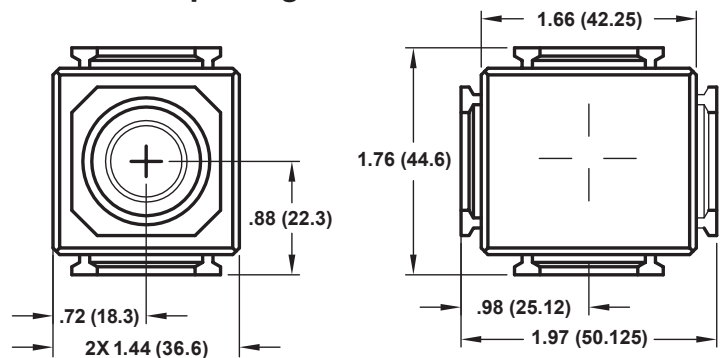
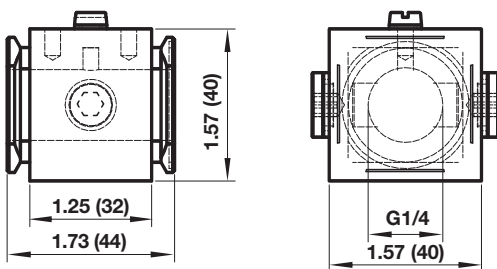
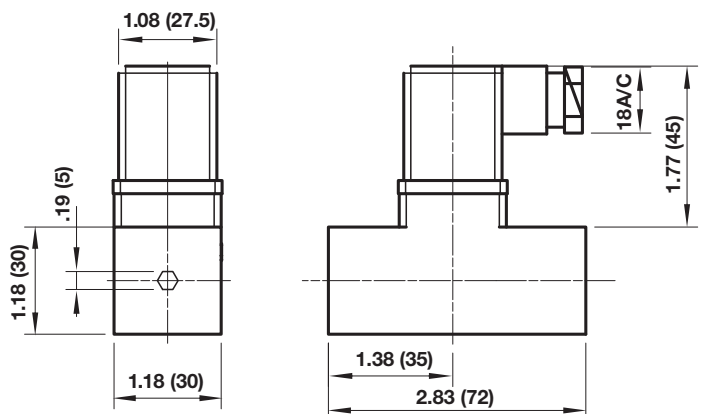


Panel mounting nut

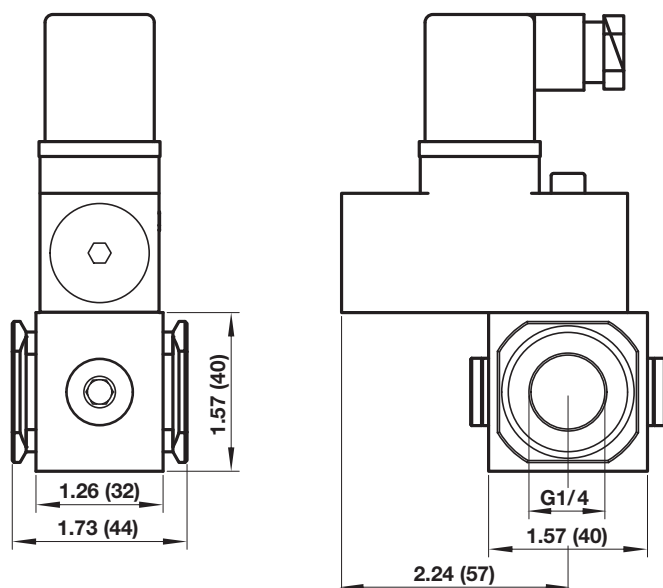


Neck mounting bracket



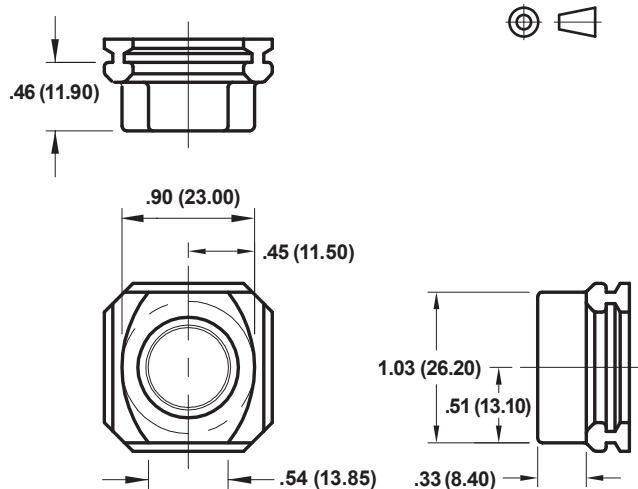
Dimensions in inches (mm)
 Projection/Third angle

Quikclamp® with wall bracket

Quikclamp®

Pressure sensing block

Full flow porting block

Porting block for 18D pressure switch

18D Pressure switch


18D Porting block and 18D assembled

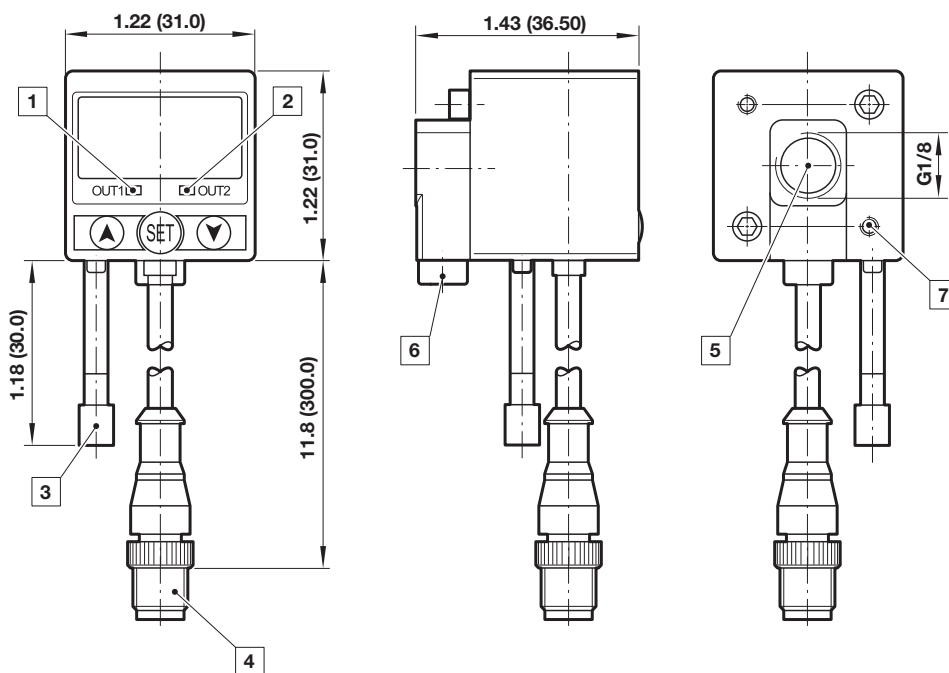


Pipe adaptor

Dimensions in inches (mm)
Projection/Third angle



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
- 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.