

BL82 – Filter/Regulator Lubricator Combination Units Excelon® Plus Modular System Filter/Regulator

- Port size: 1/4" & 3/8" (ISO G/PTF)
- Unique Quikclamp® connection system offers full modularity
- 40 micron particle and high efficiency water removal (> 95%)
- Double safety lock on bowl
- Shut off valve, and filter regulator with tamper resistance feature
- Metal bowl with prismatic liquid level indicator
- Light weight guarded polycarbonate bowl
- Easy to read flush mounted integrated pressure gauge as standard
- All round (360°) visibility of sightdome for ease of drip rate setting



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)

Filter element:

40 µm

Port size:

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

Gauge:

Integrated as standard

Diaphragm Type:

Relieving

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)

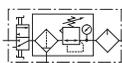
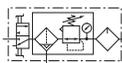
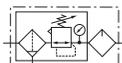
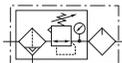
Ambient/Media temperature:

+14 ... +140°F (-10 ... +60°C)
Metal bowl:
-4 ... +149°F (-20 ... +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
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 BL82

Symbol	Port Size (PTF)	Shutoff Valve	Drain	Lubricator Type	Bowl	Weight lb (kg)	Model *1)
	1/4	With	Manual	Microfog	Metal with level indicator	2.9 (1.3)	BL82-271A
	3/8	With	Manual	Microfog	Metal with level indicator	2.9 (1.3)	BL82-371A
	1/4	With	Auto	Microfog	Guarded polycarbonate	2.0 (0.9)	BL82-201A
	3/8	With	Auto	Microfog	Guarded polycarbonate	2.0 (0.9)	BL82-301A
	1/4	Without	Manual	Microfog	Metal with level indicator	2.2 (1.0)	BL82-275A
	3/8	Without	Manual	Microfog	Metal with level indicator	2.2 (1.0)	BL82-375A
	1/4	Without	Auto	Microfog	Guarded polycarbonate	1.4 (0.6)	BL82-205A
	3/8	Without	Auto	Microfog	Guarded polycarbonate	1.4 (0.6)	BL82-305A

Option selector

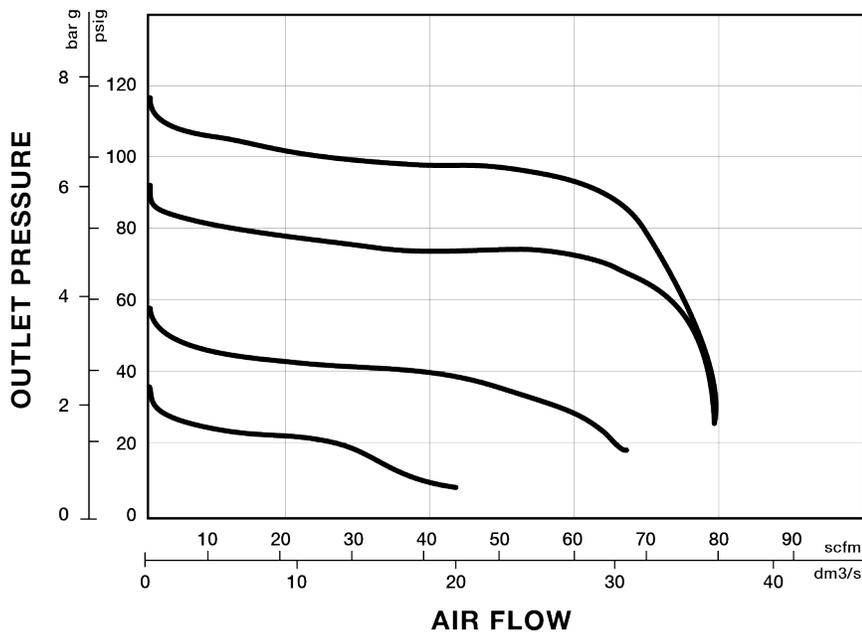
BL82-★ ★ ★ ★

Port size	Substitute
1/4"	2
3/8"	3
Units	Substitute
Filter/Regulator w. auto drain, Micro fog lubricator, Polycarbonate bowls	0
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 drain, Oil fog lubricator, Metal bowls	8

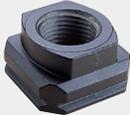
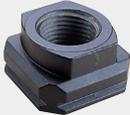
Thread form	Substitute
PTF	A
ISO G parallel	G
Accessories	Substitute
Shut-off valve and Gauge and rackets	1
Gauge and bracket	5

Flow characteristics

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



Accessories

<p>Quikclamp®</p>  <p>page 6 820014-51KIT</p>	<p>Quikclamp® with bracket assembled</p>  <p>page 6 820014-52KIT</p>	<p>Pressure sensing block 1/4 PTF</p>  <p>page 6 820016-50KIT</p>	<p>Pressure sensing block G1/4</p>  <p>page 6 820016-51KIT</p>	
<p>Integrated gauge 10 bar gauge</p>  <p>page 6 820073-01KIT</p>	<p>Gauge adaptor kit 1/8 PTF</p>  <p>page 6 820100-01KIT</p>	<p>Gauge adaptor kit R 1/8</p>  <p>page 6 820100-02KIT</p>		
<p>Full flow porting block 3/8 PTF</p>  <p>page 7 820028-50KIT</p>	<p>Full flow porting block G3/8</p>  <p>page 7 820028-53KIT</p>	<p>Pressure switch interface block (18D pressure switch)</p>  <p>page 7 0523109000000000</p>	<p>Pneumatic pressure switch 18D (7 to 120 psi)</p>  <p>page 7 0881300000000000</p>	<p>Digital pressure switch 54D (-14.5 to 145 psi)</p>  <p>page 8 54D-V110G-DD0-AA</p>
<p>Port Adaptors 1/4 PTF</p>  <p>page 7 820015-02KIT</p>	<p>Port Adaptors 3/8 PTF</p>  <p>page 7 820015-03KIT</p>	<p>Port Adaptors G1/4</p>  <p>page 7 820015-08KIT</p>	<p>Port Adaptors G3/8</p>  <p>page 7 820015-09KIT</p>	

Padlock

<p>Padlock</p>  <p>840055-01KIT</p>

<p>Lockout device</p>  <p>840055-02KIT</p>
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Silencer

<p>Porous plastic silencer *3) G1/4</p>  <p>M/S2</p>
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<p>Porous plastic silencer *3) 1/4 PTF</p>  <p>C/S2</p>
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<p>Sintered bronze silencer 1/4 PTF</p>  <p>MS002A</p>
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*3) Max. pressure of silencers listed in this data sheet : 145 psi (10 bar.) For pressure higher than 145 psi (10 bar) please contact IMI Norgren.

Maintenance/Service

Auto drain kit with metal Nut - Imperial



6000-61KIT

Auto drain kit with metal Nut - Metric



6000-60KIT

R82 / B82 Elastomer Kit



FRLB82-KIT

Filter cartridges 40 micron



820038-51KIT

Lubricator sight dome kit



Micro fog (red)

840055-50KIT

Oil fog (green)

840055-51KIT

Spare parts

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

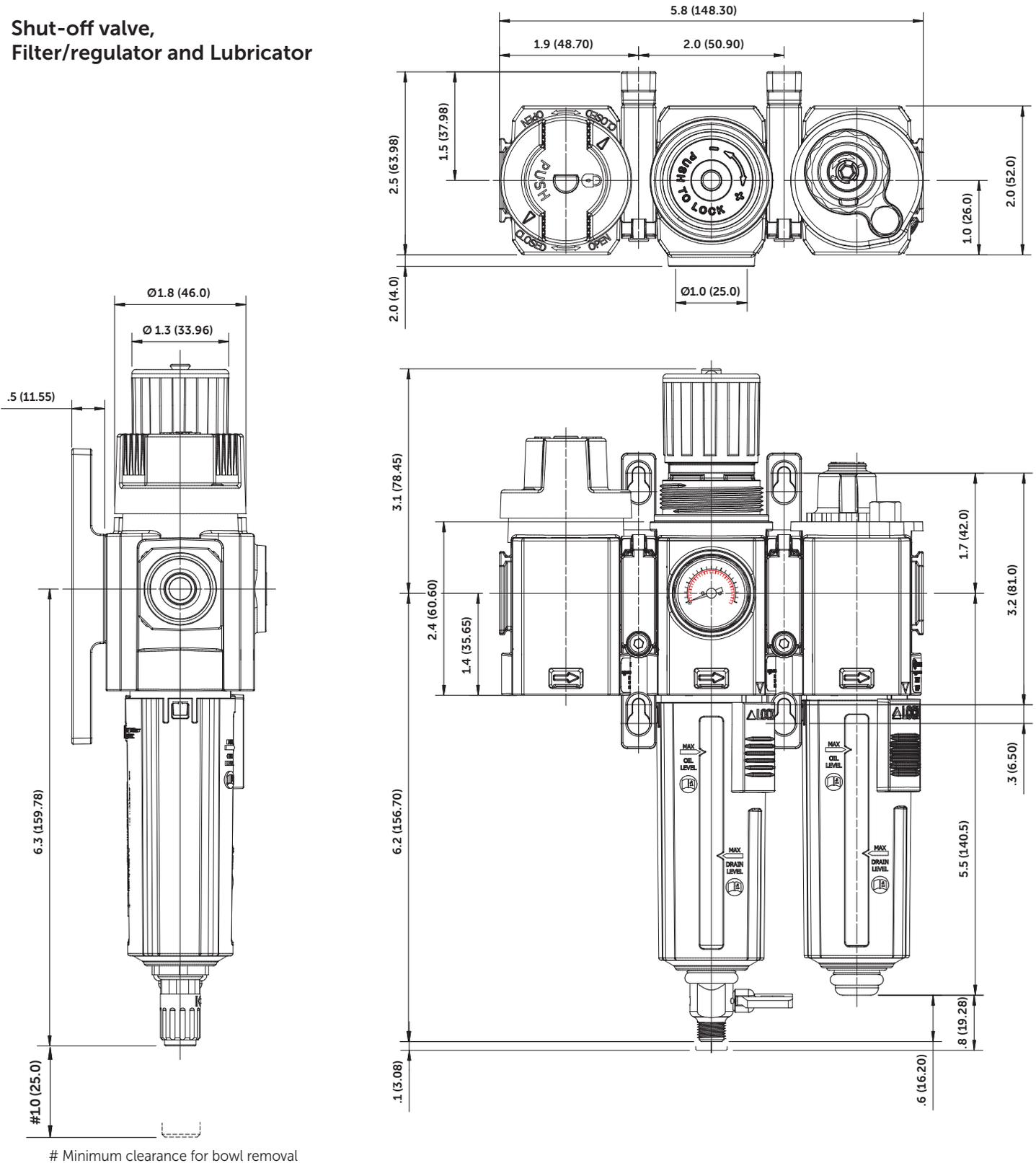
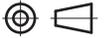
Filter Bowl
(Metal with S/Glass & auto drain, 1/4 PIF)



820003-56KIT

Dimensions

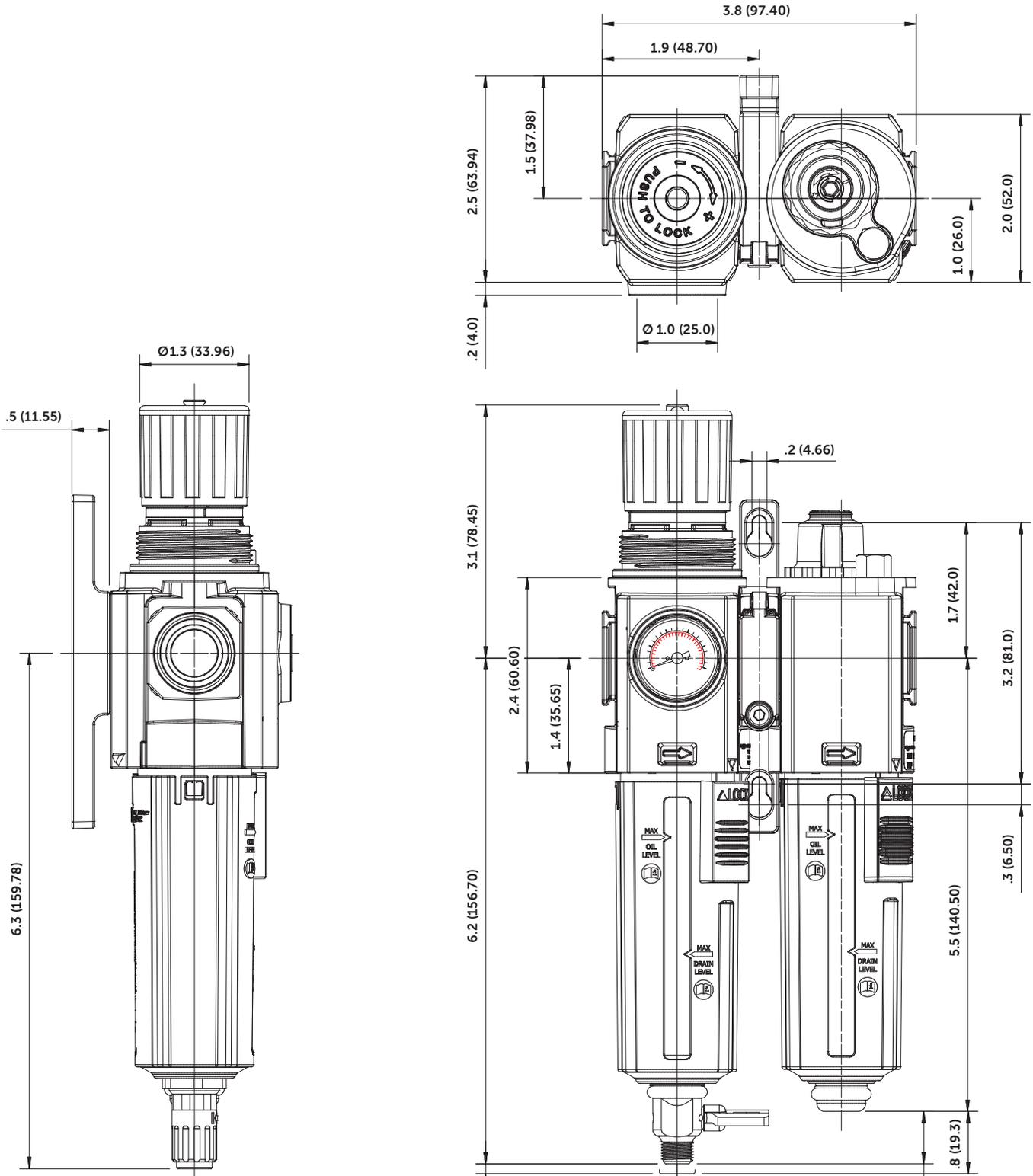
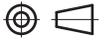
Shut-off valve, Filter/regulator and Lubricator



Dimensions

Filter/regulator and Lubricator

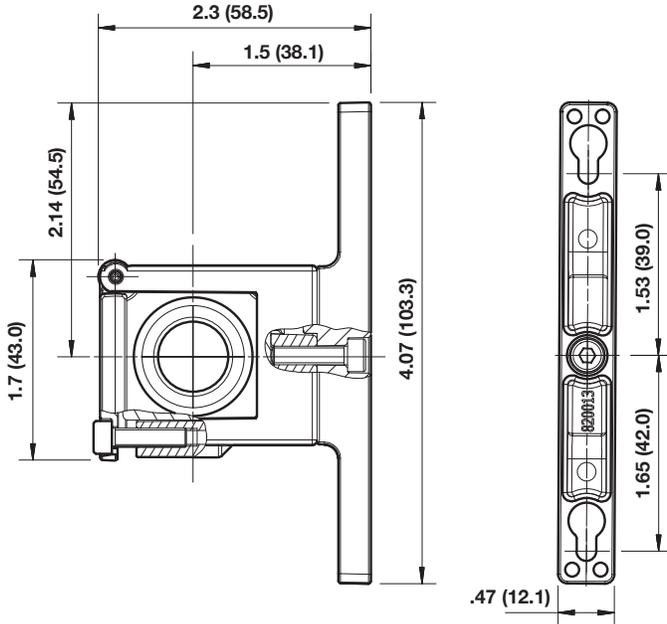
Dimensions in inches (mm)
Projection/Third angle



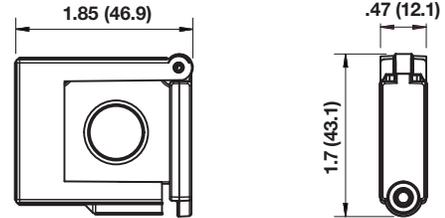
Accessories

Dimensions in inches (mm)
Projection/Third angle

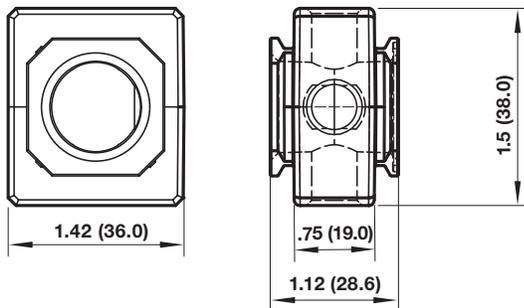
Quikclamp® with wall bracket



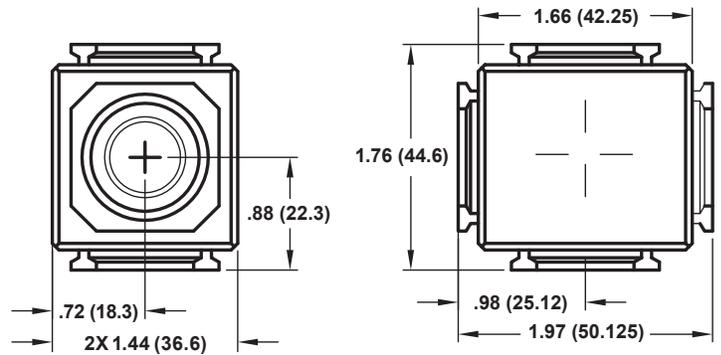
Quikclamp®



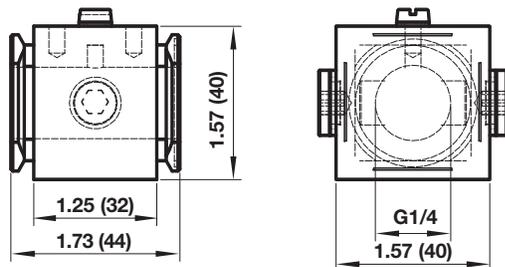
Pressure sensing block



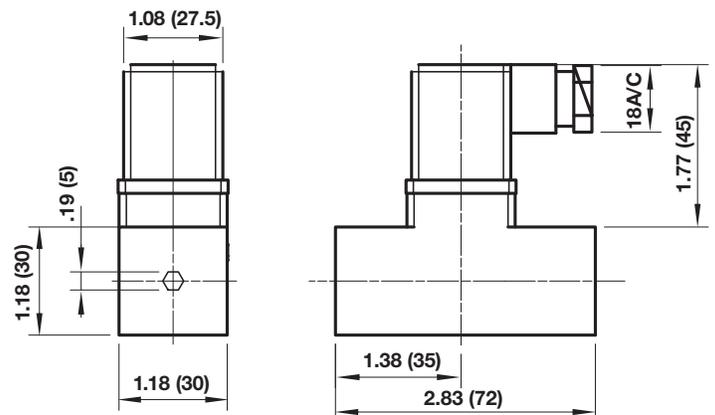
Full flow porting block



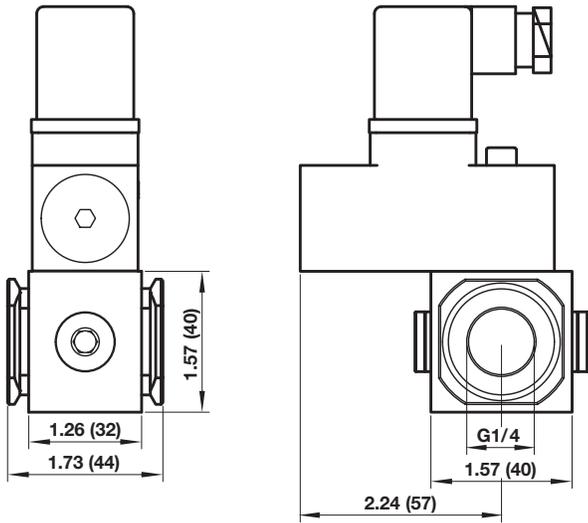
Porting block for 18D pressure switch



18D Pressure switch

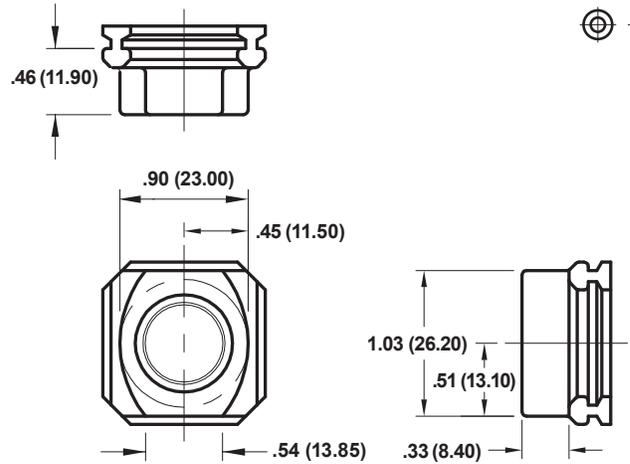


18D Porting block and 18D assembled

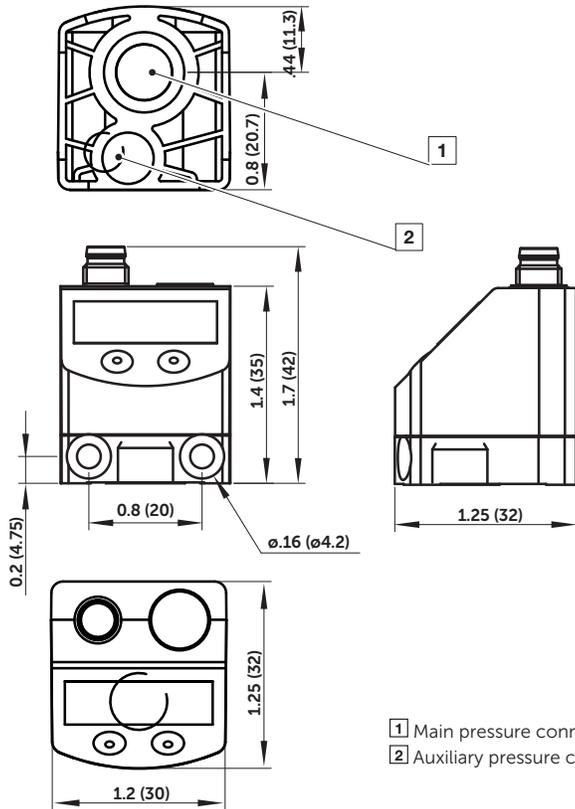


Pipe adaptor

Dimensions in inches (mm)
Projection/Third angle



54D Pressure switch - digital



- 1 Main pressure connection (PTF 1/8)
- 2 Auxiliary pressure connection for differential pressure sensing (M5)

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.