

R82 — Pressure Regulators Excelon® Plus Modular System

- Port size: 1/4" & 3/8" (ISO G/PTF)
- Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- Push to lock adjusting knob with built in tamper resistant feature
- Easy to read flush mounted integrated pressure gauge as standard



Technical features

Medium:

Compressed air only

Maximum supply pressure:

290 psi (20 bar)

Outlet pressure ranges:

4 to 30 psi (0.3 to 2 bar),
4 to 58 psi (0.3 to 4 bar),
4 to 102 psi (0.3 to 7 bar),
4 to 145 psi (0.3 to 10 bar),
10 to 247 psi (0.7 to 17 bar)

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 or Non-relieving

Flow:

69 scfm (33 dm³/s) at port size 1/4",
66 scfm (31 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.


Ambient/Media temperature:

-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: POM/Aluminum
Valve: PP
Elastomers: NBR

Technical data R82G

Symbol	Port Size (PTF)	Pressure range psi (bar)	Adjustment	Integrated gauge psi (bar)	Weight lb (kg)	Model *1)
	1/4	4 to 145 (0.3 to 10)	Knob	0 to 145 psi (0 to 10)	0.50 (0.23)	R82G-2AK RMG
	3/8	4 to 145 (0.3 to 10)	Knob	0 to 145 psi (0 to 10)	0.50 (0.23)	R82G-3AK-RMG

Option selector

R82 ★ – ★ ★ ★ – ★ ★ ★ ★

Flow	Substitute
General	G
Reverse Flow	R
Port size	Substitute
1/4"	2
3/8"	3
Thread form	Substitute
PTF	A
ISO G	G
PTF (right to left flow)	J
ISO G parallel (right to left flow)	L
Adjustment	Substitute
Knob	K
T-bar	T*1)
Knob (down)	U
T-bar (down)	Y

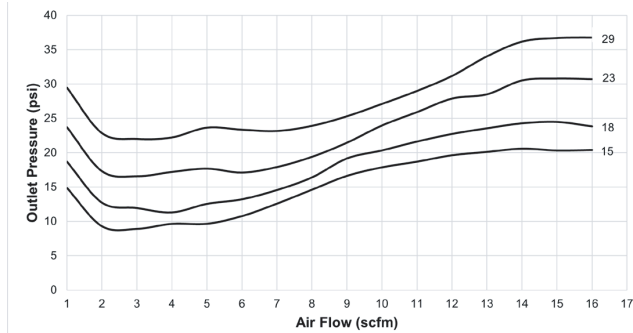
Gauge	Substitute
With (fitted integrated gauge)	G
Without integrated gauge but with gauge port 1/8"	N
Pressure range *2)	Substitute
4 to 30 psi (0.3 to 2 bar)	C
4 to 58 psi (0.3 to 4 bar)	F
4 to 102 psi (0.3 to 7 bar)	K
4 to 145 psi (0.3 to 10 bar)	M
10 to 247 psi (0.7 to 17 bar)	S*2)
Diaphragm type	Substitute
Relieving	R
Non-relieving	N

*2) 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.

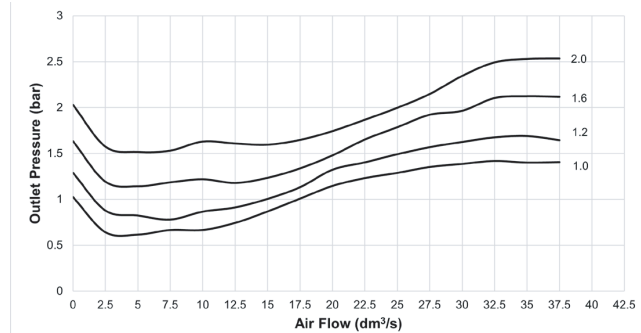
*1) Units with 247 psi (17 bar) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position

Flow characteristics

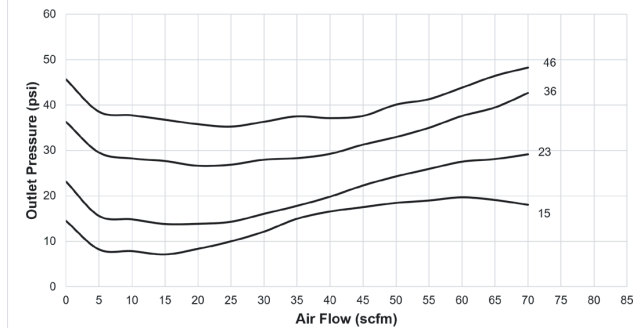
Inlet pressure: 145 psi
Range: 4 to 30 psi
Port size: 1/4"



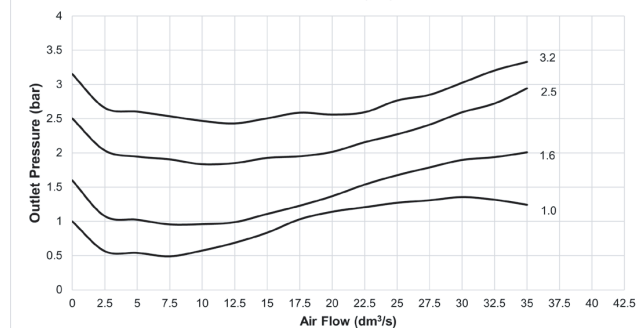
Inlet pressure: 10 bar
Range: 0.3 to 2 bar
Port size: 1/4"



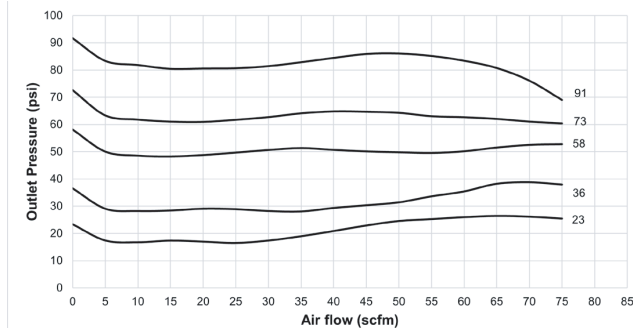
Inlet pressure: 145 psi
Range: 4 to 58 psi
Port size: 1/4"



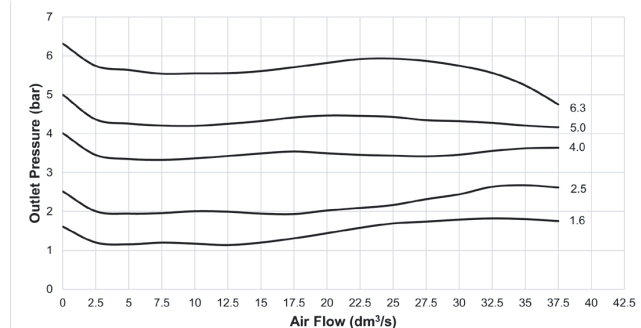
Inlet pressure: 10 bar
Range: 0.3 to 4 bar
Port size: 1/4"



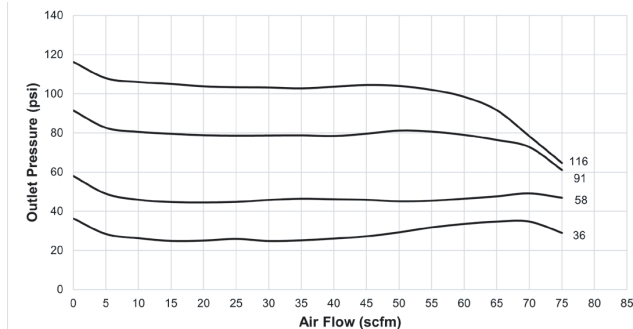
Inlet pressure: 145 psi
Range: 4 to 102 psi
Port size: 1/4"



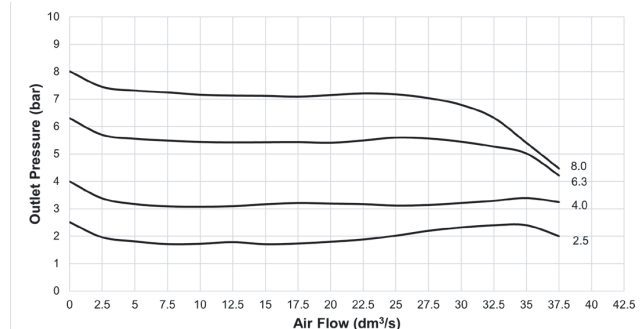
Inlet pressure: 10 bar
Range: 0.3 to 7 bar
Port size: 1/4"






















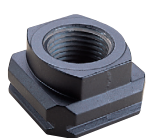
Inlet pressure: 145 psi
Range: 4 to 145 psi
Port size: 1/4"



Inlet pressure: 10 bar
Range: 0.3 to 10 bar
Port size: 1/4"



Accessories

<div>Quikclamp®</div> <div></div> <div>page 4</div> <div>820014-51KIT</div>	<div>Quikclamp® with bracket assembled</div> <div></div> <div>page 4</div> <div>820014-52KIT</div>	<div>Neck mounting bracket and panel nut</div> <div></div> <div>page 5</div> <div>820068-51KIT</div>	<div>Panel mounting nut</div> <div></div> <div>page 5</div> <div>820048-89KIT</div>	<div>Mounting bracket</div> <div></div> <div>page 5</div> <div>820024-50KIT</div>								
<div>Integrated gauge 10 bar gauge</div> <div></div> <div>820073-01KIT</div>	<div>Integrated gauge 20 bar gauge</div> <div></div> <div>820073-02KIT</div>	<div>Integrated gauge 4 bar gauge</div> <div></div> <div>820073-03KIT</div>	<div>Gauge adaptor kit 1/8 PTF</div> <div></div> <div>820100-01KIT</div>	<div>Gauge adaptor kit R 1/8</div> <div></div> <div>820100-02KIT</div>								
<div>Pressure sensing block 1/4 PTF</div> <div></div> <div>page 6</div> <div>820016-50KIT</div>	<div>Pressure sensing block G1/4</div> <div></div> <div>page 6</div> <div>820016-51KIT</div>	<div>Porting block 3/8 PTF</div> <div></div> <div>page 6</div> <div>820028-50KIT</div>	<div>Porting block G3/8</div> <div></div> <div>page 6</div> <div>820028-53KIT</div>	<div>Pressure switch interface block (18D pressure switch) G1/4</div> <div></div> <div>page 6</div> <div>0523109000000000</div>								
<div>Pressure switch 18D (7 to 120 psi) *1</div> <div></div> <div>page 6</div> <div>0881300000000000</div>	<div>Digital pressure switch 54D (-14.5 to 145 psi) *2</div> <div></div> <div>page 7</div> <div>54D-V110G-DD0-AA</div>	<div>Padlock</div> <div></div> <div>840055-01KIT</div>	<div>Lockout device</div> <div></div> <div>840055-02KIT</div>	<div>Port Adaptors</div> <div></div> <div>Page 6</div> <table><tr><td>1/4 PTF</td><td>820015-02KIT</td></tr><tr><td>3/8 PTF</td><td>820015-03KIT</td></tr><tr><td>G1/4</td><td>820015-08KIT</td></tr><tr><td>G3/8</td><td>820015-09KIT</td></tr></table>	1/4 PTF	820015-02KIT	3/8 PTF	820015-03KIT	G1/4	820015-08KIT	G3/8	820015-09KIT
1/4 PTF	820015-02KIT											
3/8 PTF	820015-03KIT											
G1/4	820015-08KIT											
G3/8	820015-09KIT											

*1) For other pressure ranges, please see 18D data sheet


*2) For other pressure ranges, please see 54D data sheet

*1) For other pressure ranges, please see 18D data sheet

*2) For other pressure ranges, please see 54D data sheet

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

(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

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

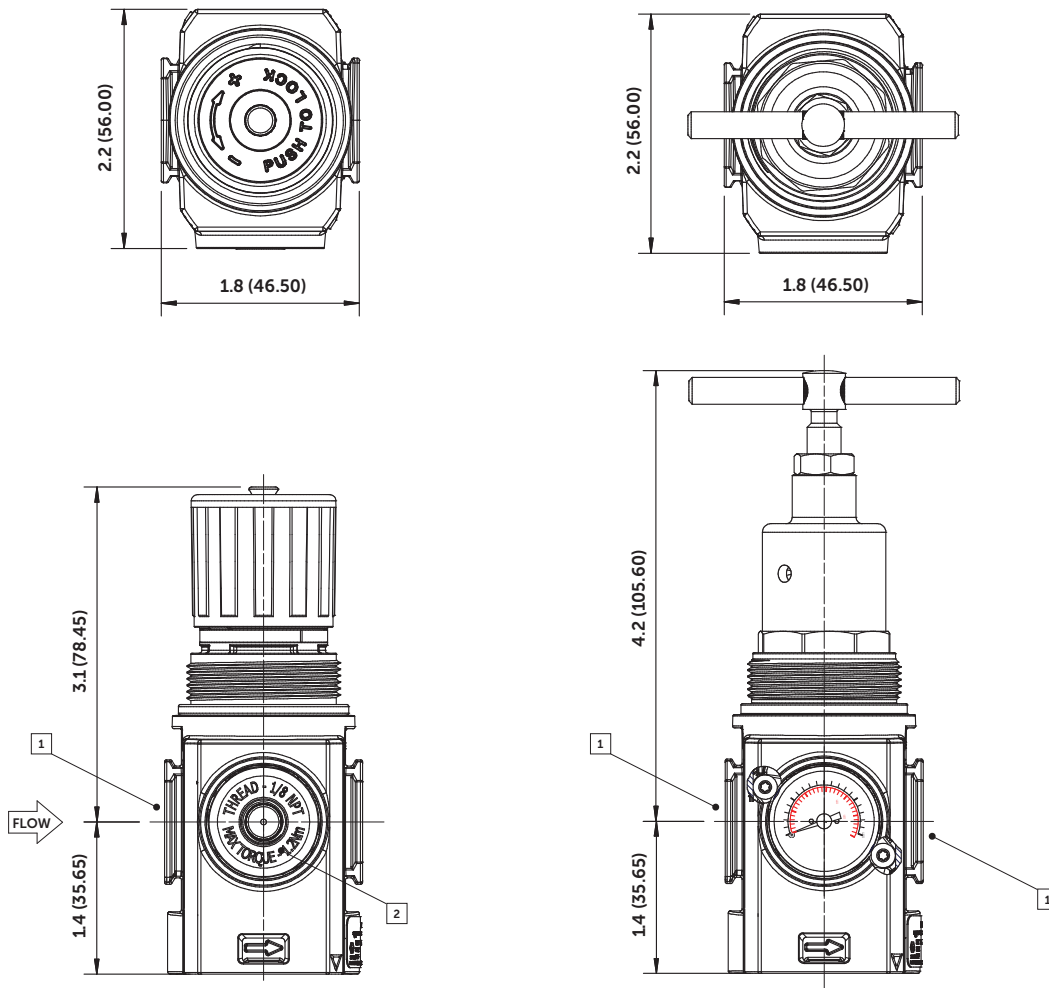
*3) primary scale

Service Kit

R82 / B82 Elastomer kit 
FRLB82-KIT



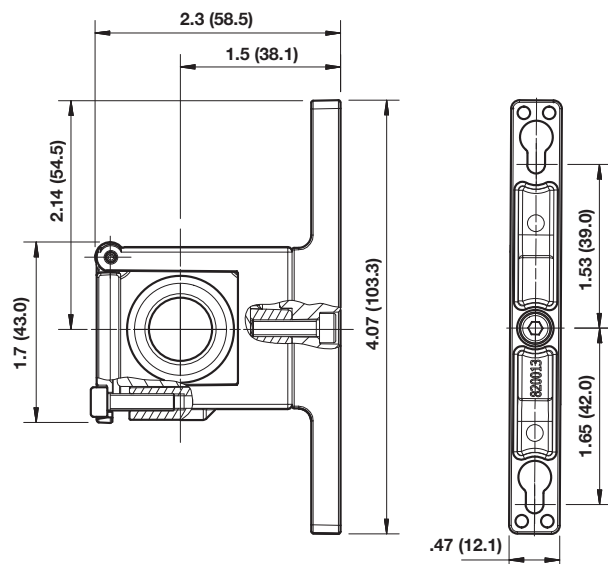
Dimensions



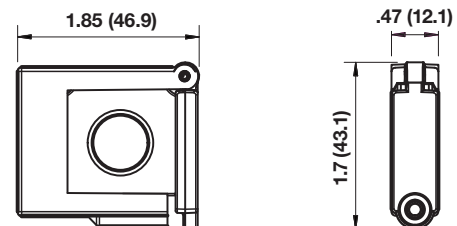
- ① Main ports 1/4", 3/8", (ISO G/PTF)
- ② Gauge port Rc 1/8 for ISO G and 1/8 PTF for PTF main ports

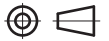
Accessories

Quikclamp® with wall bracket

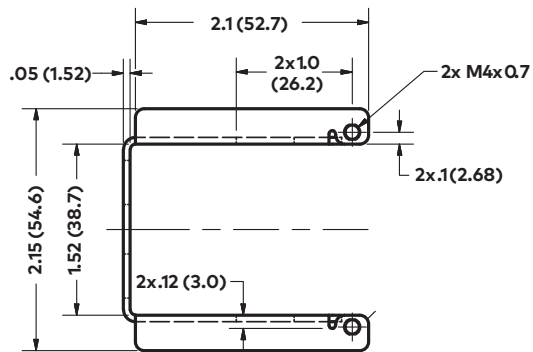


Quikclamp®

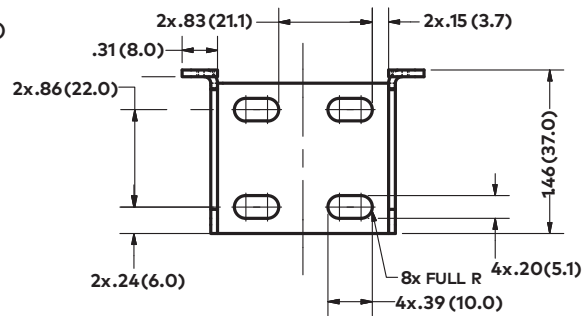
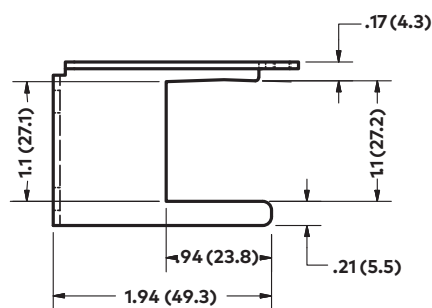
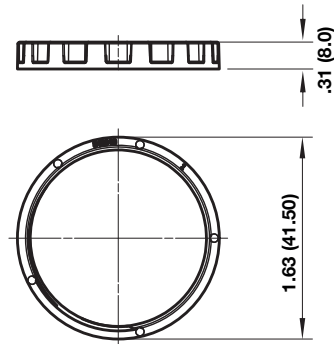




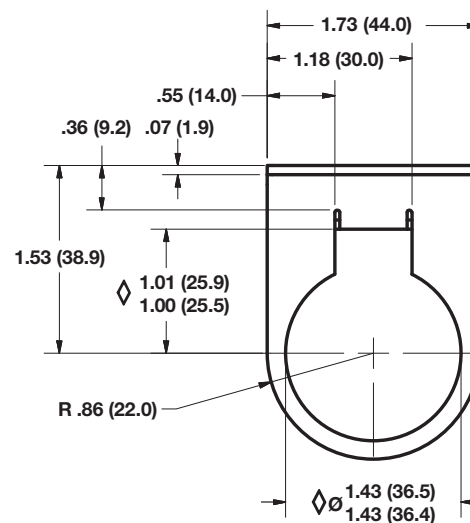
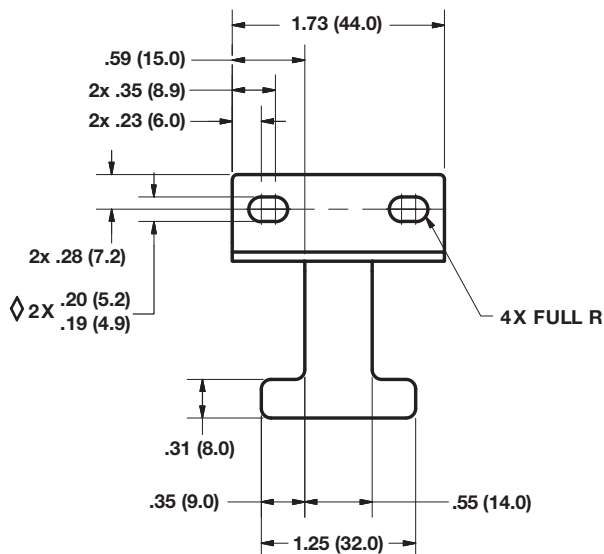
Mounting bracket

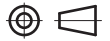


Panel mounting nut

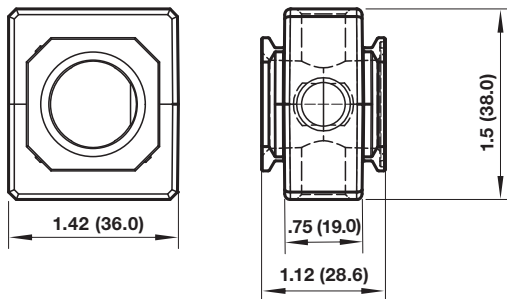


Neck mounting bracket

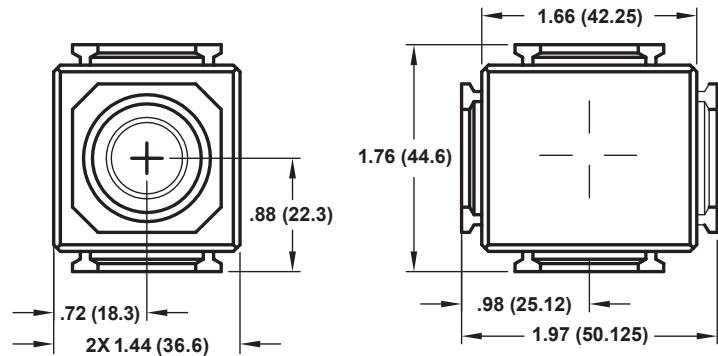




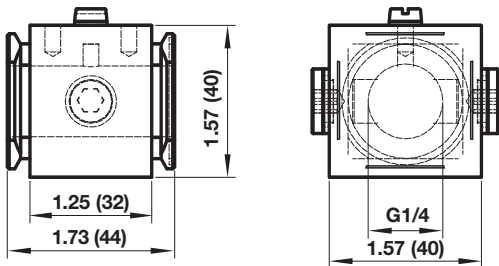
Pressure sensing block



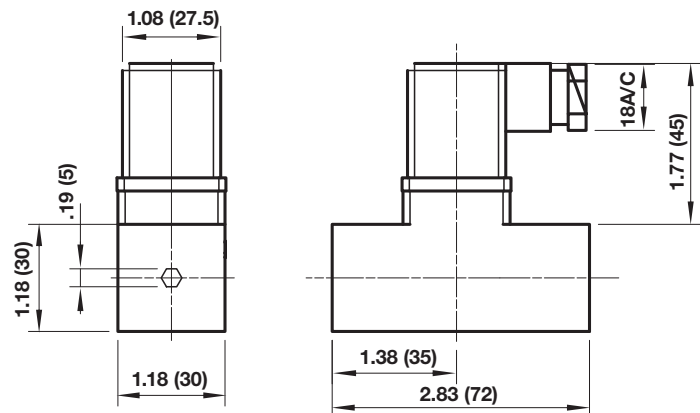
Full flow porting block



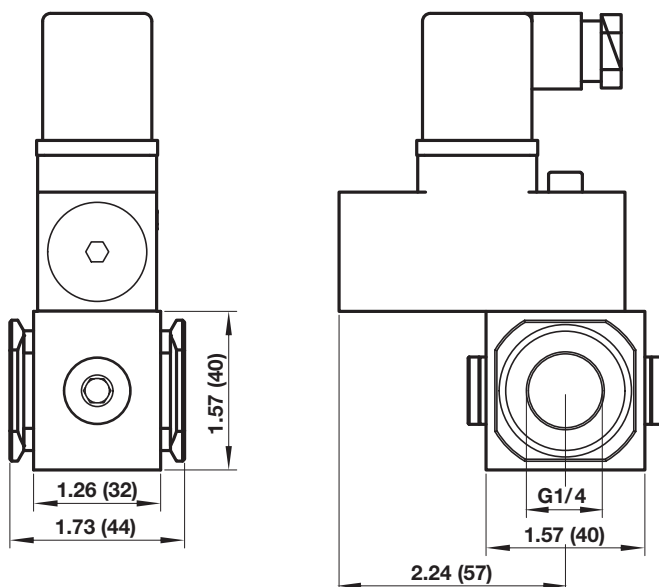
Porting block for 18D pressure switch



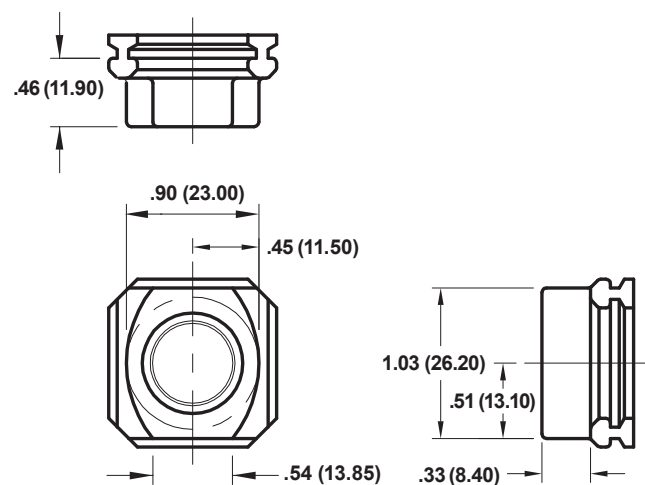
18D Pressure switch



18D Porting block and 18D assembled



Pipe adaptor



[illegible]

- 11/24