Industrial Automation

IMI Norgren

T82T – 3/2 shut-off valve Excelon® Plus Modular System



- Port size: 1/4" to 3/8" (ISO G/PTF)
- Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- 3/2 way function
- Threaded exhaust port
- Lockable in closed position with padlock

Technical features

Medium:
Compressed air only

Maximum supply pressure:
246 psi (17 bar)

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

Flow:
96 scfm (45 dm^3/s) at port size 1/4", 86 scfm (41 dm^3/s) at port size 3/8", operating pressure 91 psi (6.3 bar) and a Δp: 7.25 psi (0.5 bar) drop from set.
Exhaust flow: 3.26 scfm (1.54 dm^3/s)

Ambient/Media temperature:
-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
Elastomers: NBR
Valve: Brass

Technical data T82T

Symbol	Port Size (PTF)	Function	Valve Type	Exhaust port forms	Weight lb (kg)	Model
	1/4	3/2	Ball valve	Exhaust port threaded PTF 1/4	0.44 (0.20)	T82T-2AA-B1N
	3/8	3/2	Ball valve	Exhaust port threaded PTF 1/4	0.44 (0.20)	T82T-3AA-B1N

Option selector

T82T-★★A-B1N

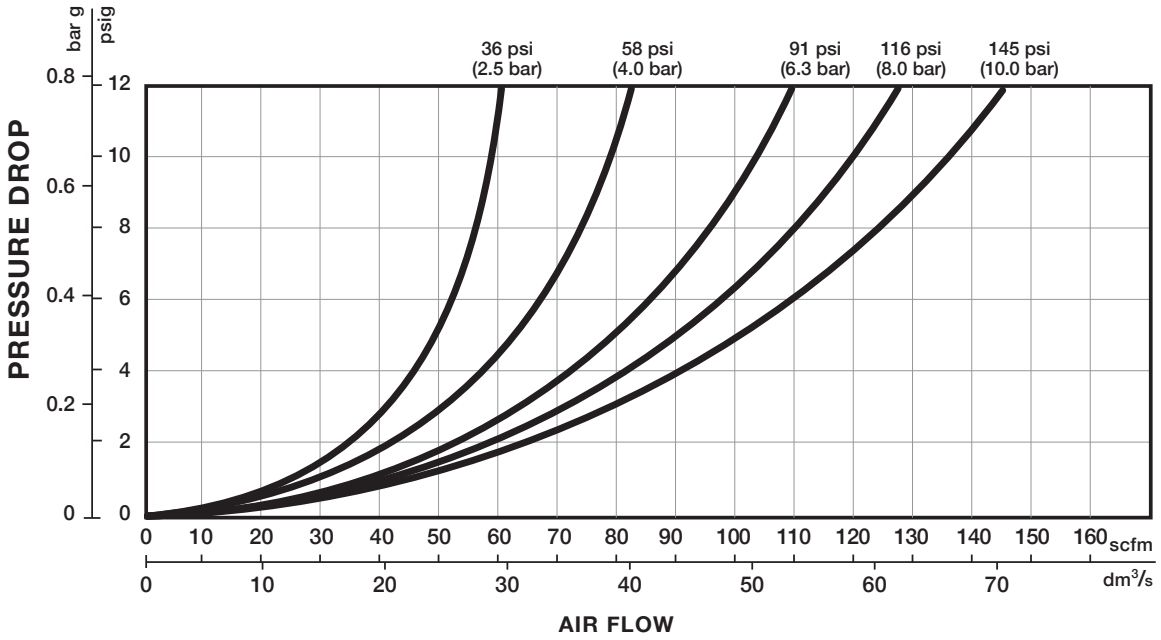
Function	Substitute
3/2	T

Thread form	Substitute
PTF	A
ISO G	G
Port size	**Substitute**
1/4"	2
3/8"	3

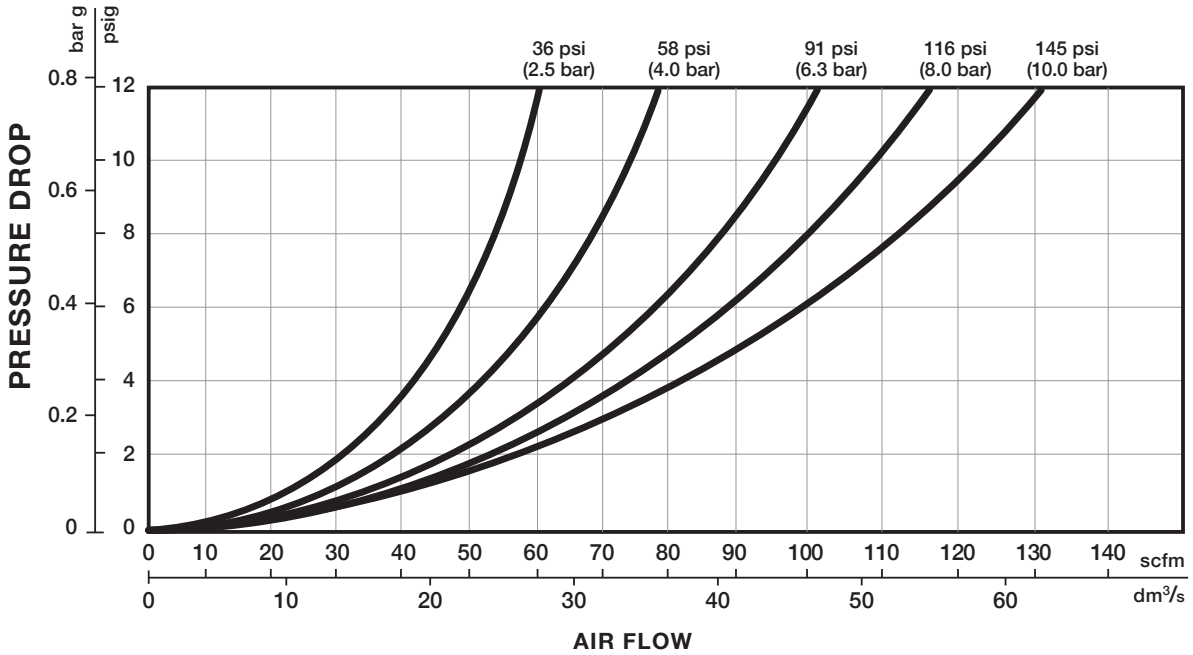
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Flow characteristics

Port size: 1/4"



Port size: 3/8"



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Accessories

Wall mounting bracket



page 5

820024-50KIT

Quikclamp®



page 5

820014-51KIT

Quikclamp® with bracket assembled



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820014-52KIT

Pressure sensing block 1/4 PTF



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820016-50KIT

Pressure sensing block G1/4



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820016-51KIT

Full flow porting block 3/8 PTF



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820028-50KIT

Full flow porting block G3/8



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820028-53KIT

Pressure switch interface block (18D pressure switch)



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0523109000000000

Pneumatic pressure switch 18D (7 to 120 psi)



page 6

0881300000000000

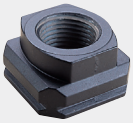
Digital pressure switch 54D (-14.5 to 145 psi)



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54D-V110G-DD0-AA

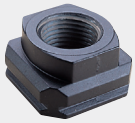
Port Adaptors 1/4 PTF



page 6

820015-02KIT

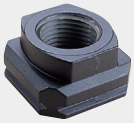
Port Adaptors 3/8 PTF



page 6

820015-03KIT

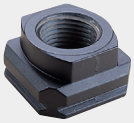
Port Adaptors G1/4



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820015-08KIT

Port Adaptors G3/8



page 6

820015-09KIT

Padlock

Padlock



840055-01KIT

Lockout device



840055-02KIT

Silencer

Porous plastic silencer *3) G1/4



M/S2

Porous plastic silencer *3) 1/4 PTF



C/S2

Sintered bronze silencer 1/4 PTF



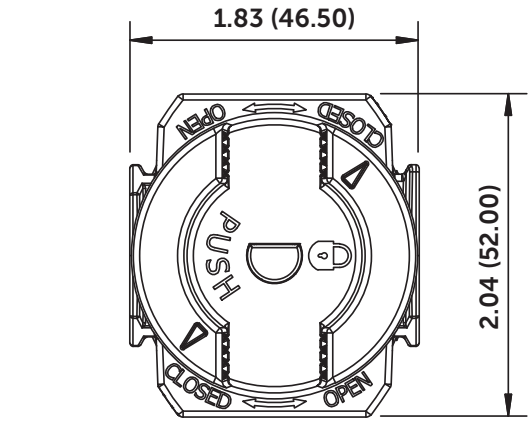
MS002A

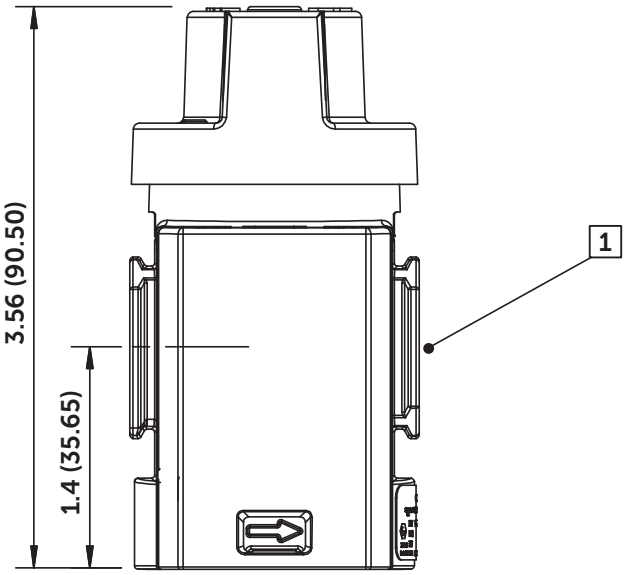
°3) Max. pressure of these plastic silencers listed in this data sheet : 145 psi (10 bar).

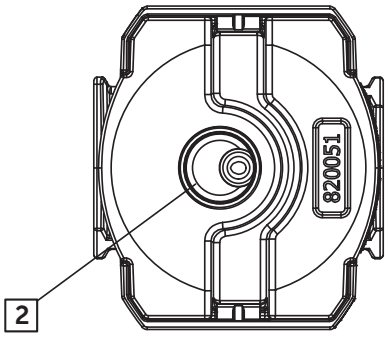
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Dimensions

Dimensions in inches (mm)
Projection/Third angle







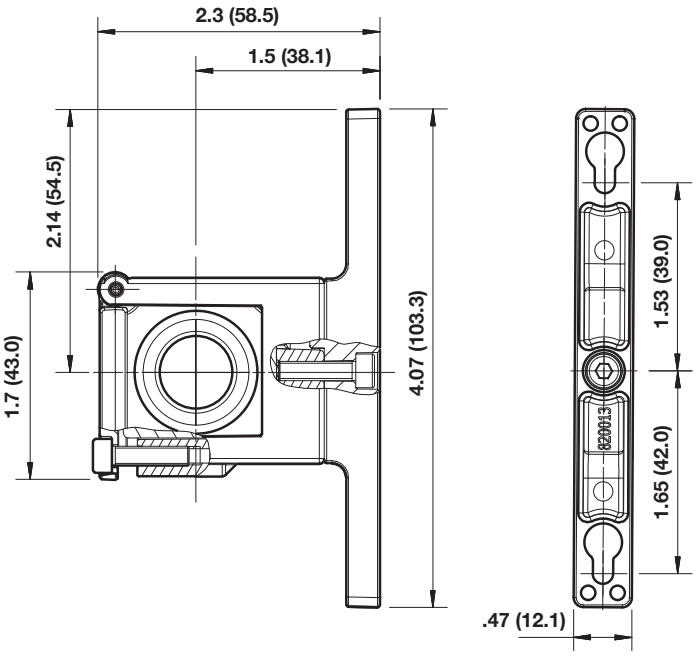
1 Main ports 1/4"or 3/8" ISO G/PTF
2 Exhaust Port Rc1/4 or 1/4 PTF

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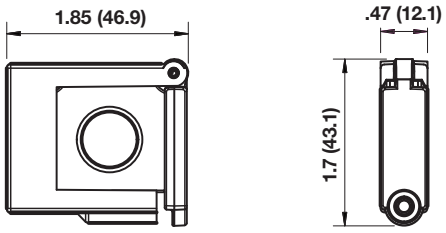
Accessories

Dimensions in inches (mm)
Projection/Third angle

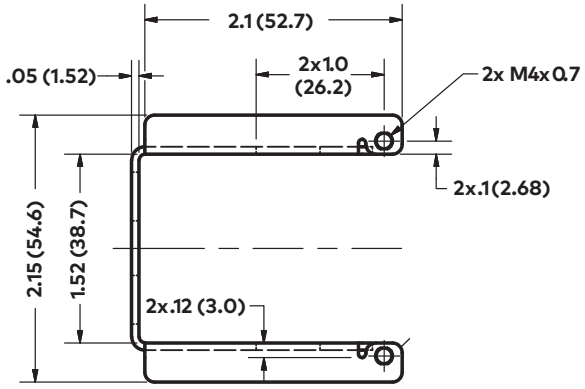
Quikclamp® with wall bracket

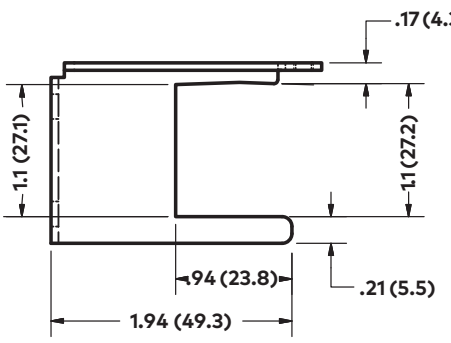


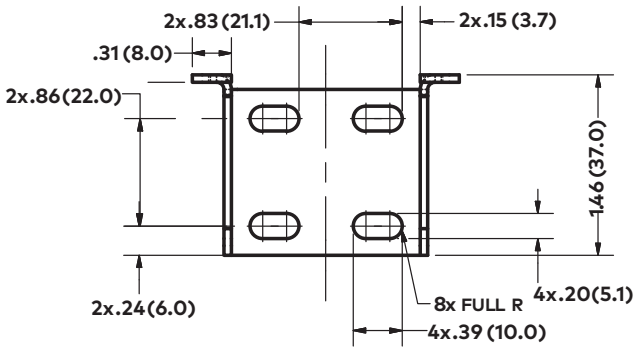
Quikclamp®



Mounting bracket



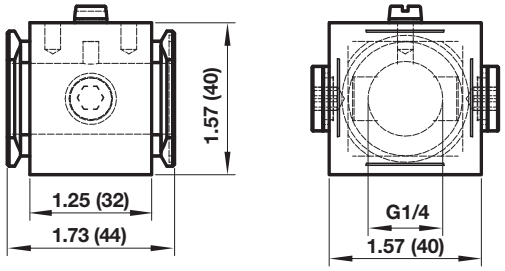




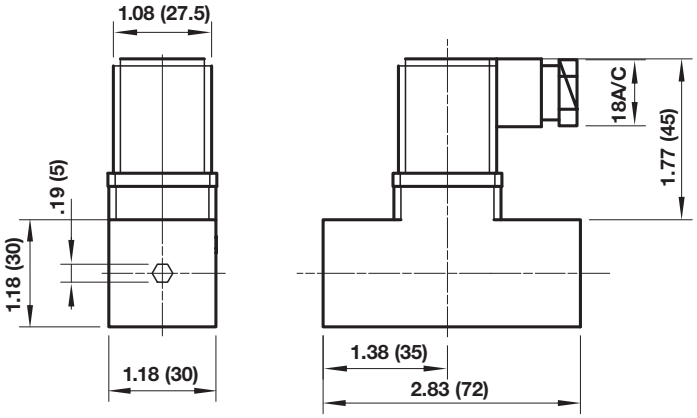
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Dimensions in inches (mm)
Projection/Third angle

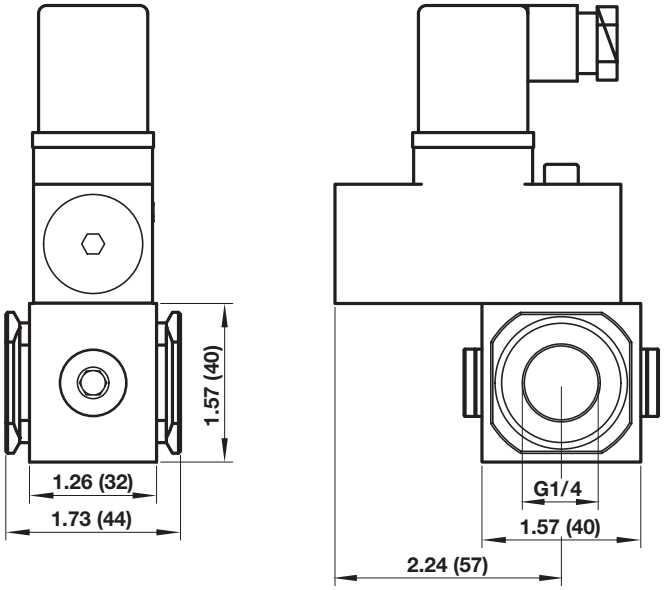
Porting block for 18D pressure switch



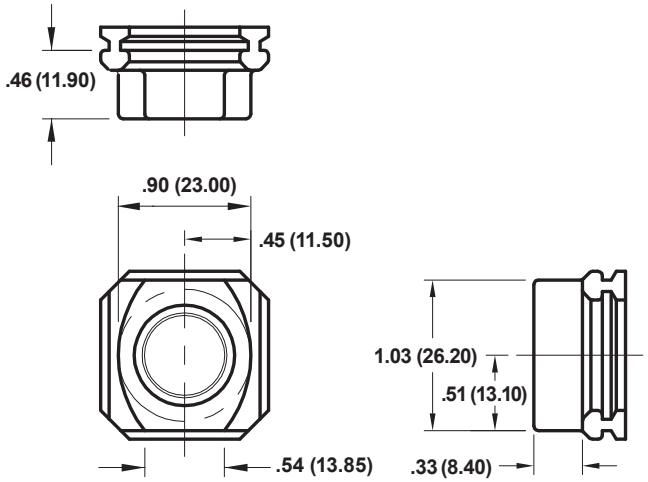
18D Pressure switch



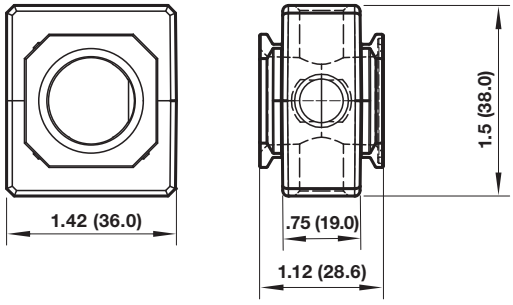
18D Porting block and 18D assembled



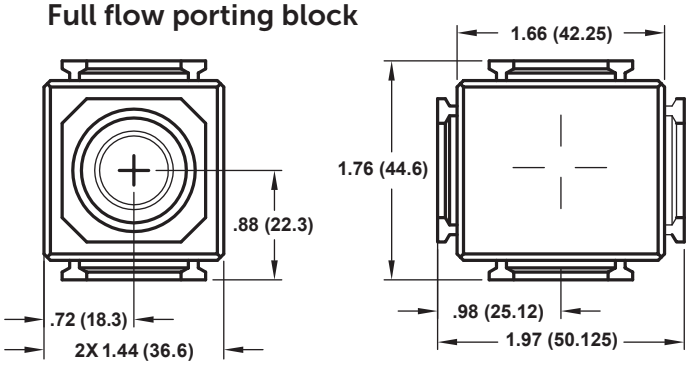
Pipe adaptor



Pressure sensing block



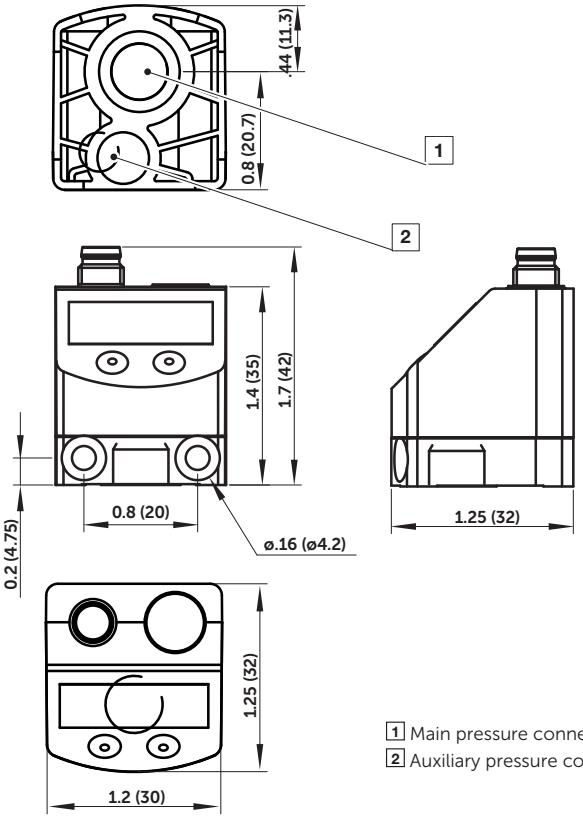
Full flow porting block



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54D Pressure switch - digital

Dimensions in inches (mm)
Projection/Third angle



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.

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