

- > **Port size: 1/4" & 3/8" (ISO G/PTF)**
- > **Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products**
- > **Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors**
- > **Double safety lock bowl**
- > **Light weight Polycarbonate bowl**
- > **Metal bowl with prismatic lens**
- > **Air purity class in accordance with ISO 8573-1: Remaining oil aerosol to class 0***

*Tested in accordance with the methods laid out in ISO 12500-2 using an inlet oil aerosol concentration of 0.018mg/m³



Technical features

Medium:

Compressed air only

Maximum operating pressure:

Polycarbonate bowl: 145 psi (10 bar)

Metal bowl: 246 psi (17 bar)

Remaining oil content:

0.003 mg/m³ max. at +69°F (+21°C)

Port size:

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

Dry Element Flow:

40 scfm

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).

Note:

Install an F82C coalescing filter upstream of the F82V filter for maximum service life.

Materials:

Body: Die cast aluminium

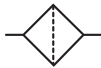
Body covers: ABS

Bowl: Transparent PC with PP guard or die cast zinc Bowl

"o"- ring: Chloroprene

Elastomers: NBR

Technical data F82V

| Symbol | Port Size (PTF) | Drain | Filter element | Bowl | Weight lb (kg) | Model |
|-------------------------------------------------------------------------------------|-----------------|-------------|----------------|-----------------------------|----------------|--------------|
|  | 1/4 | Closed bowl | Vapor removal | Guarded polycarbonate | 0.48 (0.21) | F82V-2AN-EPA |
| | 3/8 | Closed bowl | Vapor removal | Guarded polycarbonate | 0.44 (0.20) | F82V-3AN-EPA |
| | 1/4 | Closed bowl | Vapor removal | Metal bowl - no sight glass | 0.88 (0.40) | F82V-2AN-EDA |
| | 3/8 | Closed bowl | Vapor removal | Metal bowl - no sight glass | 0.88 (0.40) | F82V-3AN-EDA |

Option selector

F82V-★ ★ N - E ★ A

| Port size | Substitute |
|-----------|------------|
| 1/4" | 2 |
| 3/8" | 3 |

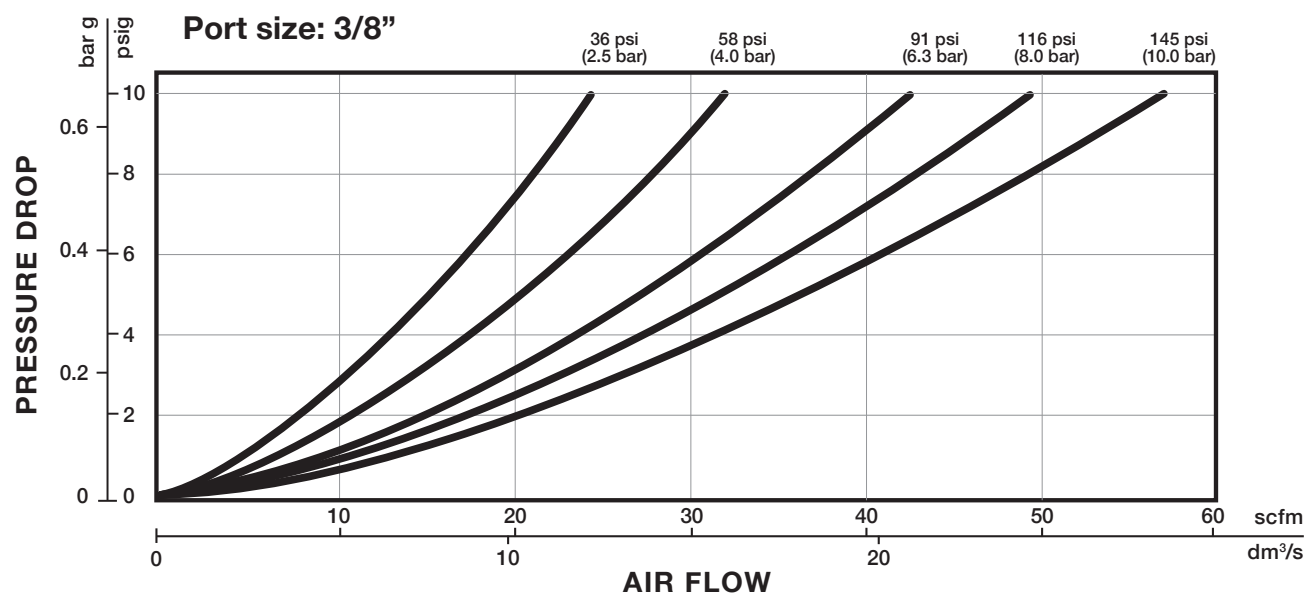
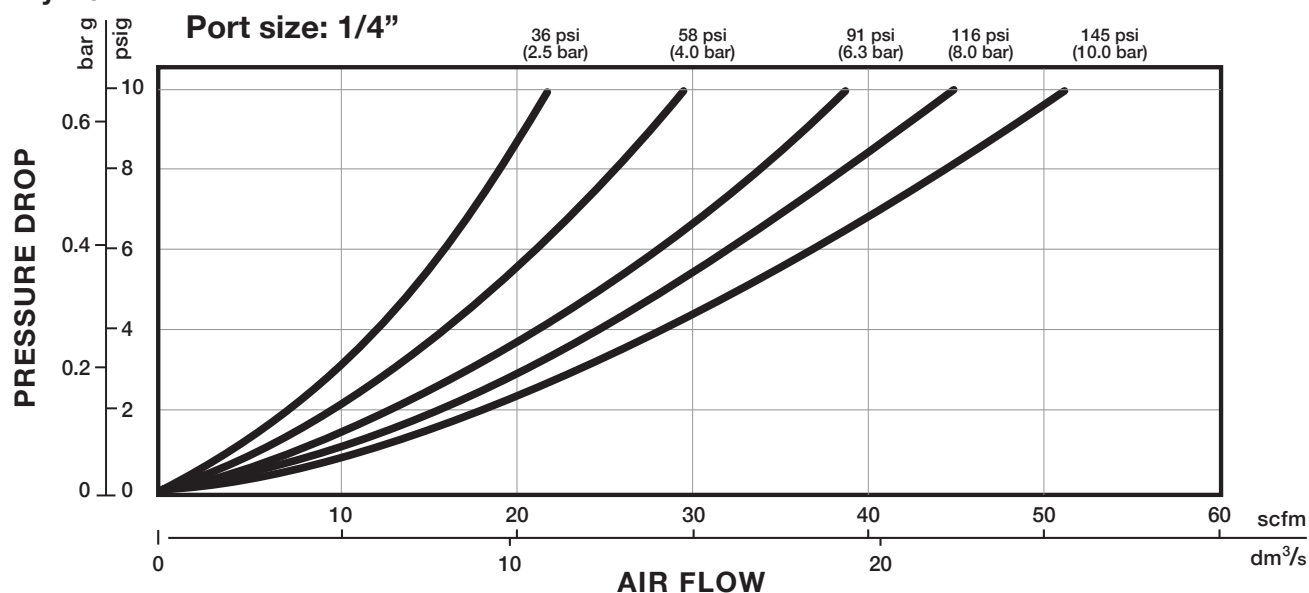
| Bowl | Substitute |
|------------------------|------------|
| Metal | D |
| Transparent with guard | P |
| Thread form | Substitute |
| PTF | A |
| ISO G | G |

Flow characteristics

Vapor Removal Flow

| Inlet Pressure psi (bar) | Flow-rate to maintain media velocity of ISO12500-1 test on oil vapor filter (L/sec) |
|-----------------------------|----------------------------------------------------------------------------------------------|
| 36 (2.5) | 1.9 |
| 58 (4) | 2.8 |
| 91 (6.3) | 4 |
| 116 (8) | 5 |
| 145 (10) | 6.1 |

Dry Flow



Accessories

Wall mounting bracket


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820024-50KIT

Quikclamp®


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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


page 4

820028-53KIT

Pressure switch interface block (18D pressure switch)


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Pneumatic pressure switch 18D (0,5 ... 8 bar) *1)

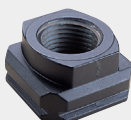

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0881300000000000

Digital pressure switch 51D(-1 ... 10 bar) *2)

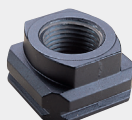

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Port Adaptors 1/4 PTF


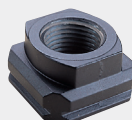
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820015-02KIT

Port Adaptors 3/8 PTF


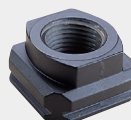
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820015-03KIT

Port Adaptors G1/4


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820015-08KIT

Port Adaptors G3/8


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820015-09KIT

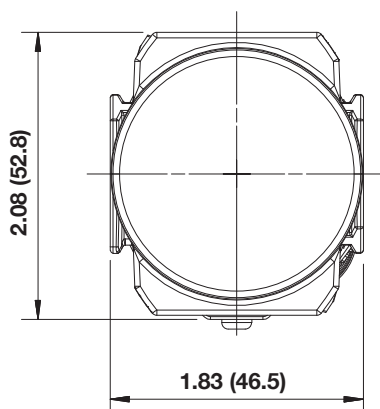
Maintenance/Service

Vapor Removal filter element


820041-50KIT

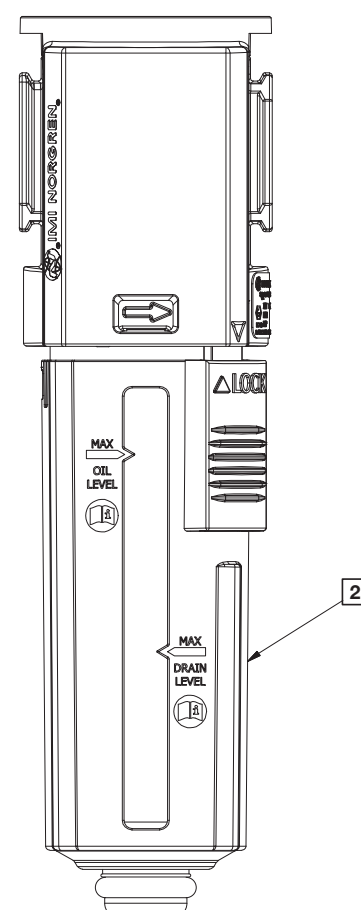
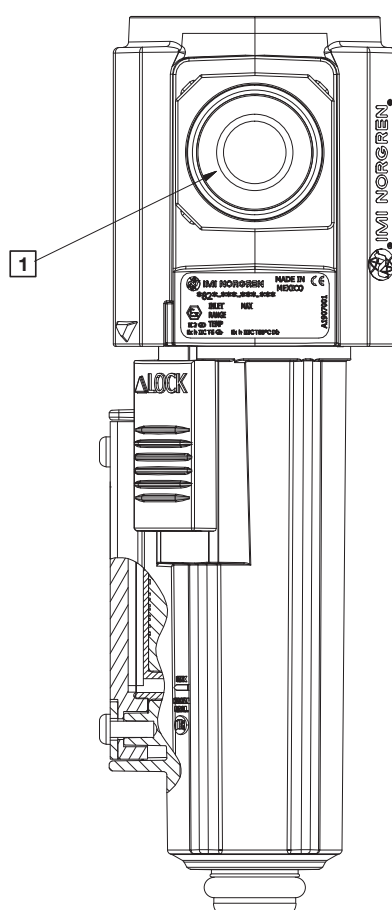
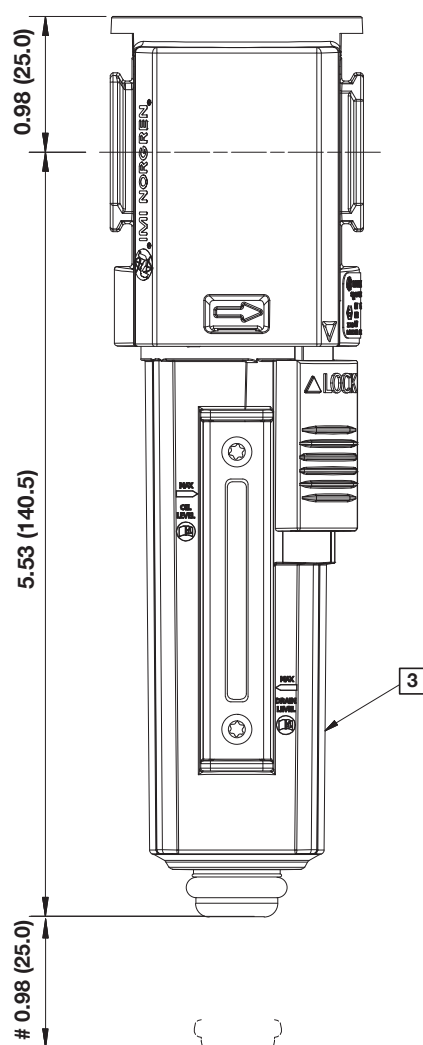
Dimensions

Dimensions in inches (mm)
Projection/Third angle



Minimum clearance for bowl removal

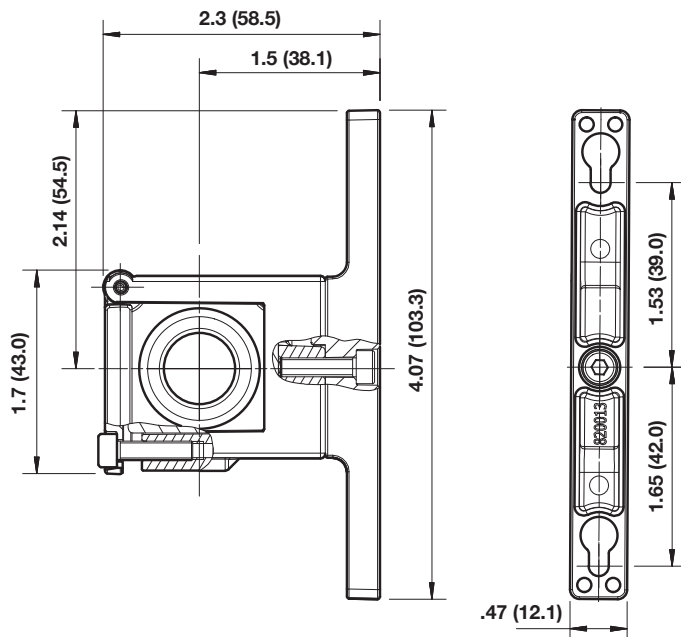
- 1 Main ports 1/4", 3/8" (ISO G/PTF)
- 2 Transparent bowl with guard
- 3 Metal bowl



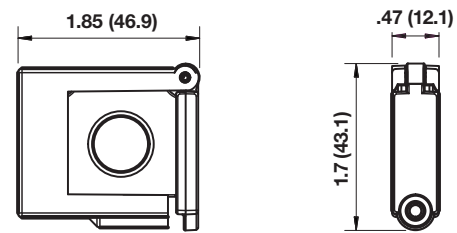
Accessories

Dimensions in inches (mm)
 Projection/Third angle

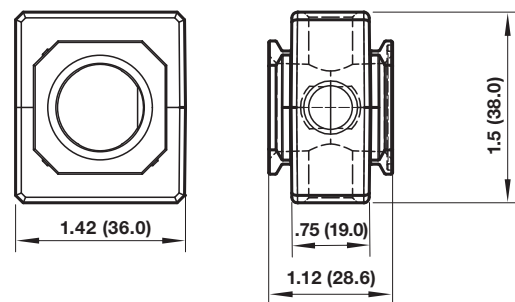
Quikclamp® with wall bracket



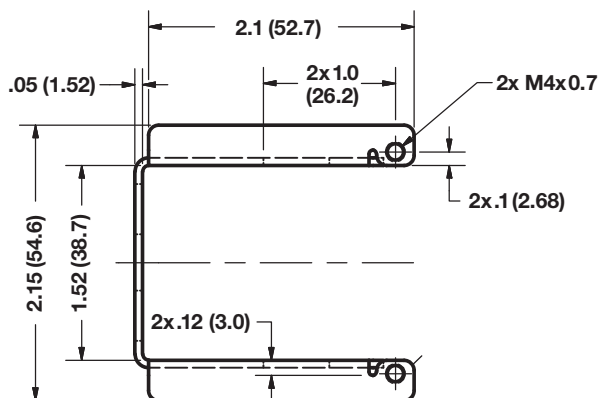
Quikclamp®



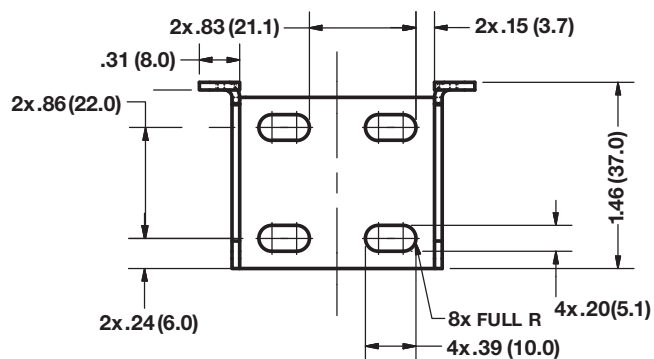
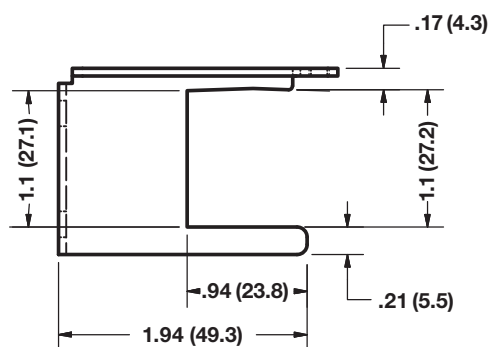
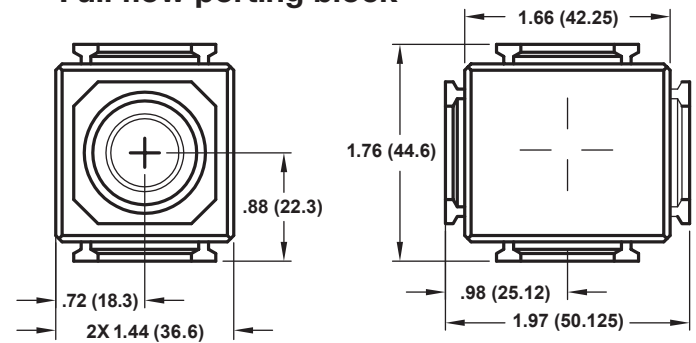
Pressure sensing block



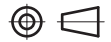
Mounting bracket



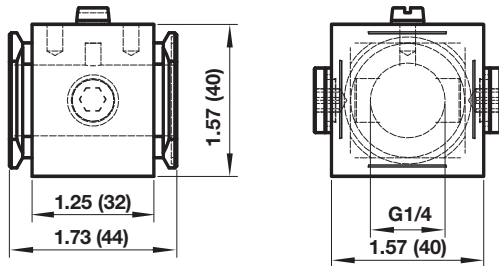
Full flow porting block



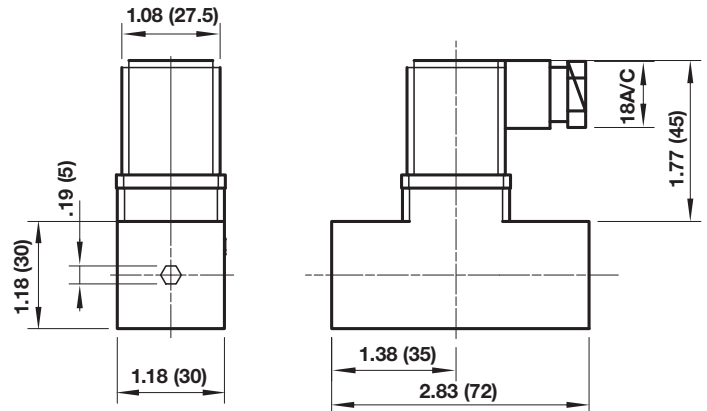
Dimensions in inches (mm)
Projection/Third angle



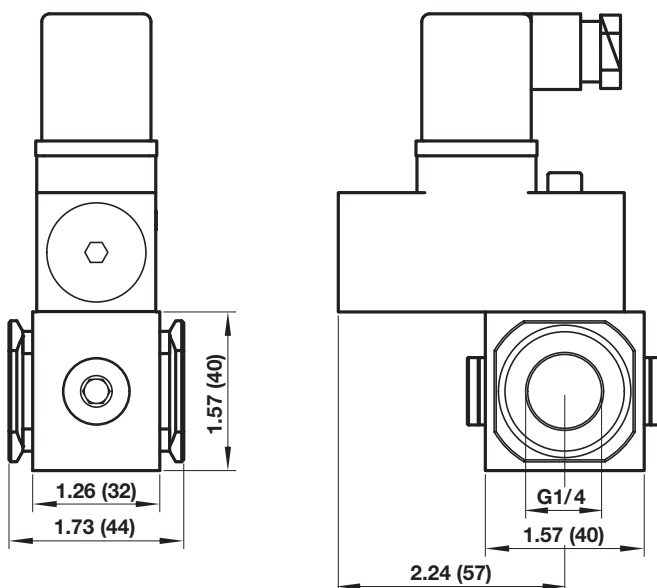
Porting block for 18D pressure switch



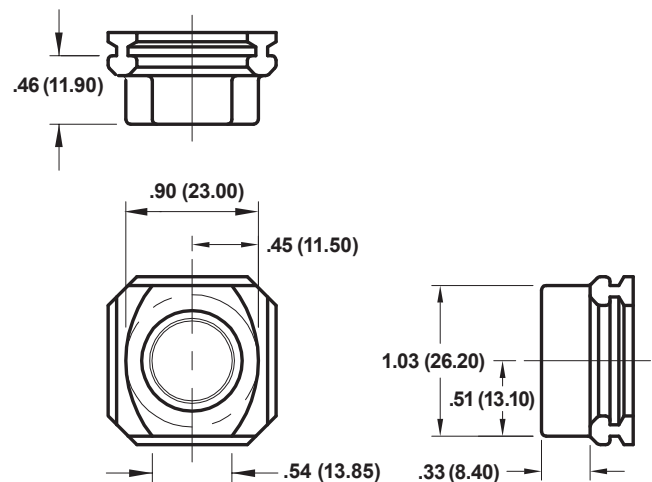
18D Pressure switch



18D Porting block and 18D assembled

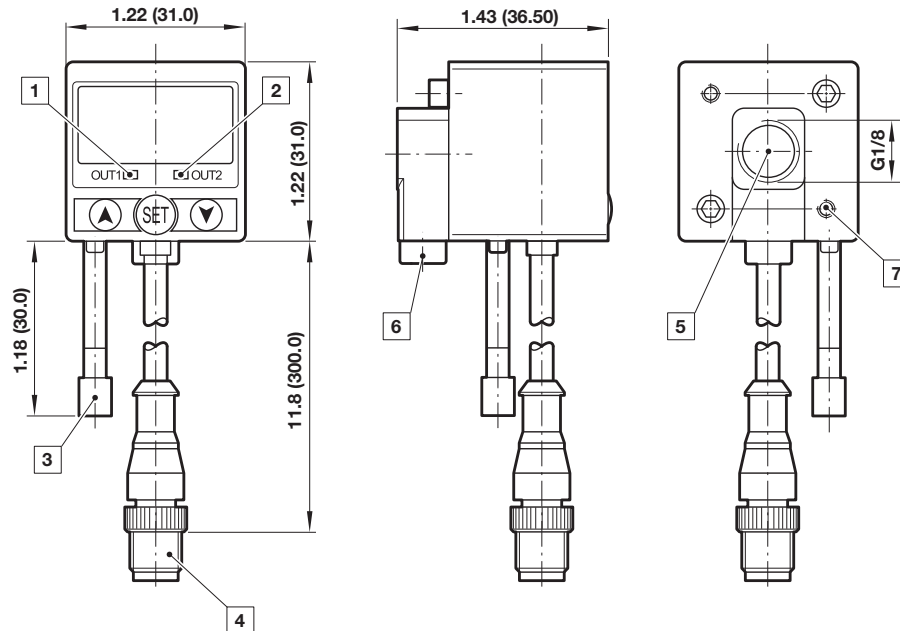


Pipe adaptor





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.