# P84C 3/2 Control Valve Excelon® Plus Modular System



- Port size: 3/8" to 3/4" (ISO G/PTF)
- Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- High forward flow capacity
- Fast exhausting
- 3 port/2 position valve, normally closed
- Solenoid and air pilot options

## Technical features

**Medium:**
Compressed air only

**Maximum supply pressure:**
145 psi (10 bar)

**Minimum operating pressure:**
43 psi (3 bar). Air Pilot pressure must be equal to or greater than the supply pressure.

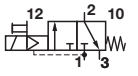
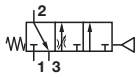
**Port size:**
G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

**Flow:**
123 scfm (58 $dm^3/s$)
at port size 1/2"
Full flow P1 to P2 @ 91 psi
(6.3 bar) inlet, with 7 psi
(0.5 bar) pressure drop
P2 to P3 = 134 scfm (63 $dm^3/s$)

**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: Aluminum
End Caps: Aluminum
Body covers: ABS
Elastomers: NBR
Valve: Brass
Air Pilot: Aluminum

## Technical data P84C

| Symbol | Port Size (PTF) | Function | Voltage | Exhaust Port (PTF) | Weight lbs (g) | Model |
|---|---|---|---|---|---|---|
|  | 3/8 | 3/2 Control | 24 VDC | 1/2 | 2.23 (1012) | P84C-3AT-PFA |
| | 1/2 | 3/2 Control | 24 VDC | 1/2 | 2.23 (1012) | P84C-4AT-PFA |
| | 3/4 | 3/2 Control | 24 VDC | 1/2 | 2.23 (1012) | P84C-6AT-PFA |
|  | 3/8 | Air/spring | NA | 1/2 | 2.34 (1060) | P84C-3AA-NNN |
| | 1/2 | Air/spring | NA | 1/2 | 2.34 (1060) | P84C-4AA-NNN |
| | 3/4 | Air/spring | NA | 1/2 | 2.34 (1060) | P84C-6AA-NNN |

## Electrical details for solenoid operators

| | |
|---|---|
| **Voltage tolerance:** | -10%/+15% |
| **Rating:** | 100% continuous duty |
| **Inlet orifice:** | 0.8mm |
| **Electrical connection:** | 15mm DIN EN 175301-803 (DIN 43 50) Table C |
| **Manual override:** | Shrouded push button, spring return |
| **Protection class:** | IP65 with sealed plug (ISO 6952) NEMA 4 |
| **Materials:** | PP5 (body), NBR (seals) |

## Voltage rating and spare coils

| | Voltage | Power | Replacement |
|---|---|---|---|
|  | 24 VDC | 1.2 W | 840650-50KIT |
|  | 110 VAC | 1.5 VA | 840650-51KIT |
|  | 220 VAC | 1.5 VA | 840650-52KIT |


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## Option selector

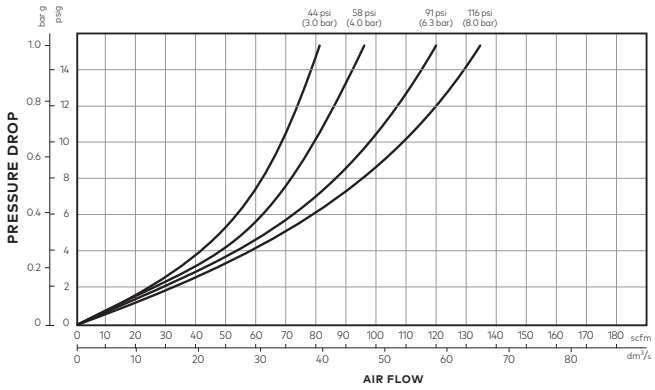
P84C-★★★-★★★

| Function | Substitute |
|---|---|
| Control Valves | C |
| **Port Size** | **Substitute** |
| 3/8" | 3 |
| 1/2" | 4 |
| 3/4" | 6 |
| **Thread Form** | **Substitute** |
| PTF | A |
| ISO G | G |
| **Operator** | **Substitute** |
| Air Pilot | A |
| Solenoid Operated | T |

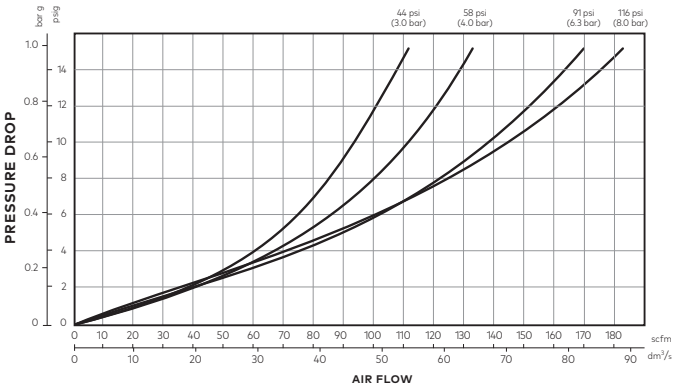
| Connector | Substitute |
|---|---|
| With connector | A |
| none | N |
| **Solenoid** | **Substitute** |
| 110/120 VAC | A |
| 220/240 VAC | B |
| 24 VDC | F |
| none | N |
| **Solenoid Operator** | **Substitute** |
| Non-Locking push button | P |
| none | N |

## Flow characteristics

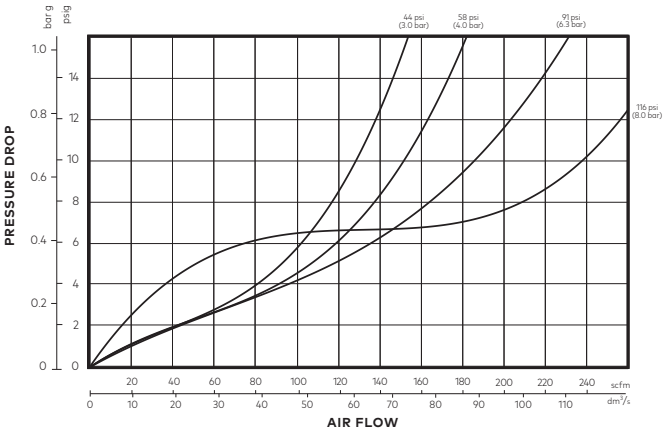
### Port size: 3/8"




### Port size: 1/2"




### Port size: 3/4"






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## Accessories

**Quikclamp®**



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**Quikclamp® with bracket assembled**



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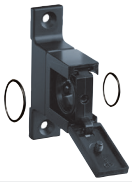
**Hybrid Quikclamp® *1**



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**Hybrid Quikclamp® with bracket assembled *1**



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**Wall mounting bracket**



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840024-50KIT

*1) To connect new Excelon Plus to Excelon 74/73 units. Having the same hole centers as 74 series mounting bracket. A Quikclamp adds 13.6 mm to the overall width of a combination unit

**Full flow porting block 3/4 PTF**



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840028-68KIT

**Full flow porting block G3/4**



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**Full flow porting block 3/4 PTF**



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840028-50KIT

**Full flow porting block G3/4**



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840028-53KIT

**Pressure sensing block 1/4 PTF**



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840016-50KIT

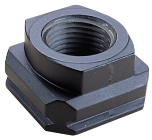
**Pressure sensing block G1/4**



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840016-51KIT

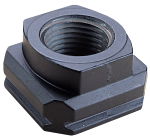
**Port Adaptors 3/8 PTF**



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840015-02KIT

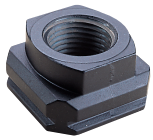
**Port Adaptors 1/2 PTF**



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840015-03KIT

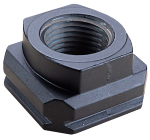
**Port Adaptors 3/4 PTF**



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840015-04KIT

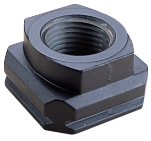
**Port Adaptors G3/4**



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840015-12KIT

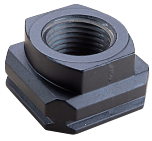
**Port Adaptors G3/8**



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840015-10KIT

**Port Adaptors G1/2**



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840015-11KIT

**Air Pilot Operator 1/8 PTF**



840623-50KIT

**Air Pilot Operator 1/8 ISO G**



840623-51KIT

## Silencer

**Heavy duty muffler, 1/2" NPT male thread, brass wire element**



MB004A

**Heavy duty muffler, R1/2 male thread, brass wire element**



MB004B



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## Accessories continued

**Connection cable with plug, LED and M12 Female**



| Description | Cable length ft. (m) | Model |
|---|---|---|
| PUR-Cable; M12/valve type C DIN connector | 1.97 (0,6) | NC-DINCA-123MS-A |
| | 3.28 (1) | NC-DINCA-123MS-1 |
| | 6.56 (2) | NC-DINCA-123MS-2 |
| | 16.40 (5) | NC-DINCA-123MS-5 |

**Plug with with moulded cable and indicator**



| Voltage | Cable length ft. (m) | Model |
|---|---|---|
| 12 - 24 V a.c. / d.c | 3.28 (1) | V10014-D01 |
| 12 - 24 V a.c. / d.c | 9.84 (3) | V10014-D03 |
| 110 V a.c. / d.c. | 3.28 (1) | V10015-D01 |
| 110 V a.c. / d.c. | 9.84 (3) | V10015-D03 |
| 220 V a.c. / d.c | 3.28 (1) | V10016-D01 |
| 220 V a.c. / d.c | 9.84 (3) | V10016-D03 |

**Plug with moulded cable**



| Description | Cable length ft. (m) | Model |
|---|---|---|
| 3 pin plug with moulded cable | 3.28 (1) | V10013-D01 |
| 3 pin plug with moulded cable | 9.84 (3) | V10013-D03 |

**Light Emitting Seals, 15mm form C**



| Description | Model |
|---|---|
| Light Emitting Seals Circuit A (12 - 24 V d.c.) | V10037-E13 |
| Light Emitting Seals Circuit B (110 - 120 V a.c.) | V10037-E18 |
| Light Emitting Seals Circuit B (220 - 240 V a.c.) | V10037-E19 |

**Plug with cable gland and indicator**



| Description | Model |
|---|---|
| Plug with cable gland and indicator 12-24 V a.c. / d.c., c/w LED / VDR | V10012-D13 |
| Plug with cable gland and indicator 110 V a.c. / d.c., c/w LED / VDR | V10012-D18 |
| Plug with cable gland and indicator 220 V a.c. / d.c., c/w LED / VDR | V10012-D19 |

**M12 Adaptor Top - MSUP Valve Plug Form C 8MM**



7000-42831-0000000

**M12 Adaptor Rear - MSUP Valve Plug Form C 8MM**



7000-42811-0000000

**Plug with cable gland**



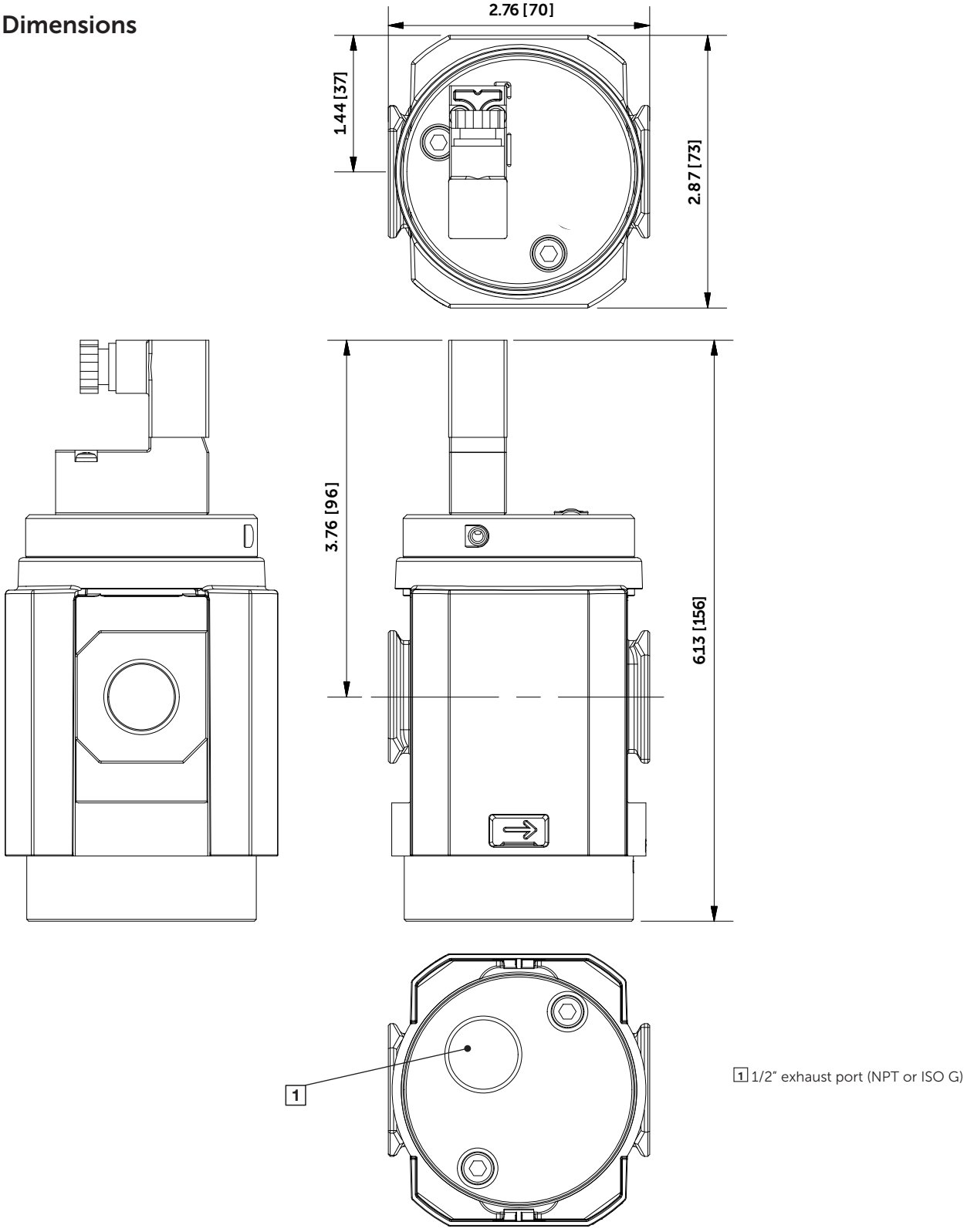
V10027-D00



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Dimensions in inches (mm)
Projection/Third angle

## Dimensions



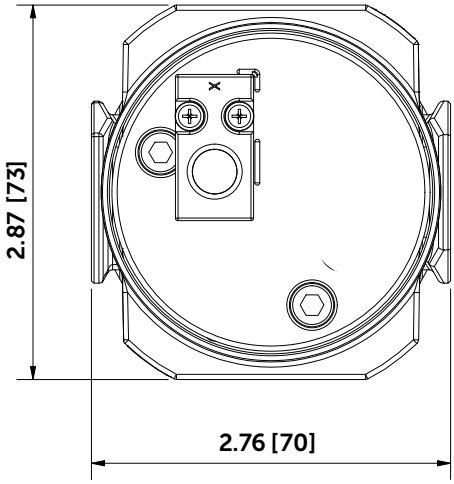

1 1/2" exhaust port (NPT or ISO G)

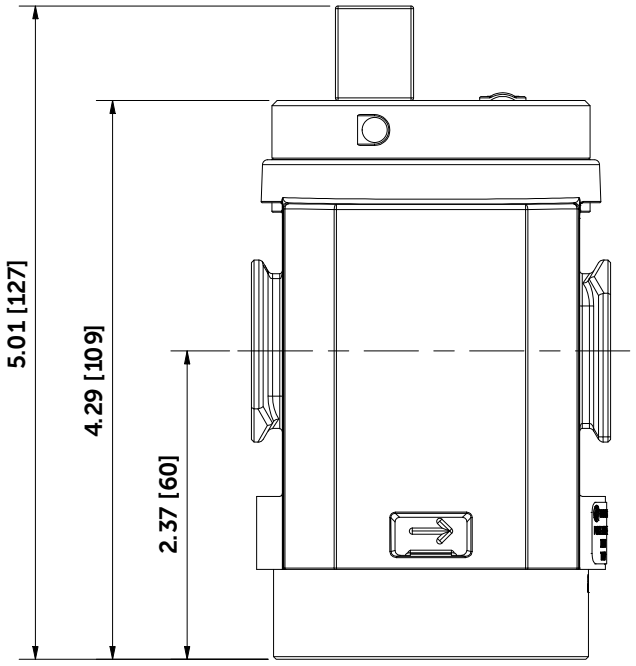

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Dimensions in inches (mm)
Projection/Third angle

## Dimensions

### Air Pilot Operator



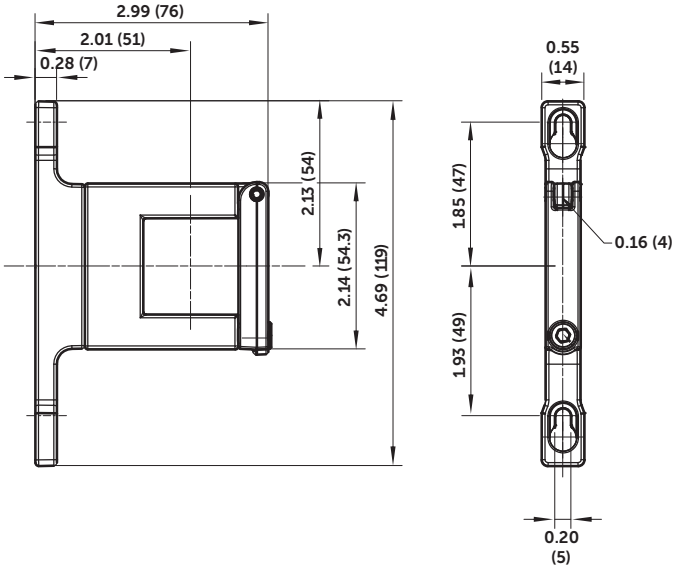


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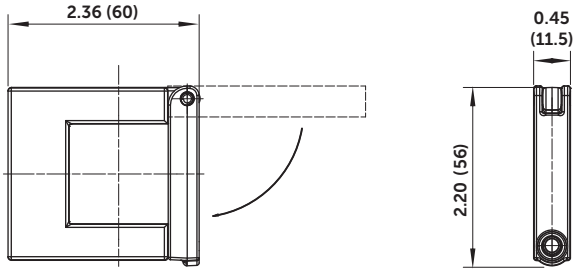
Dimensions in inches (mm)
Projection/Third angle

# Accessories

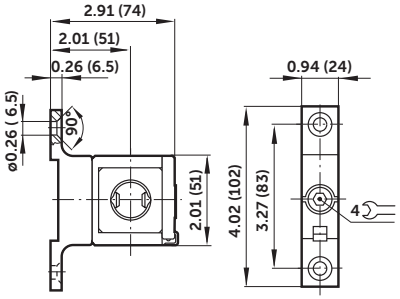
## Quikclamp® with wall bracket



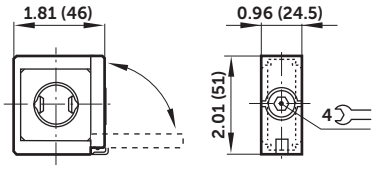

## Quikclamp®




## Hybrid-Quikclamp® with wall bracket




## Hybrid-Quikclamp®

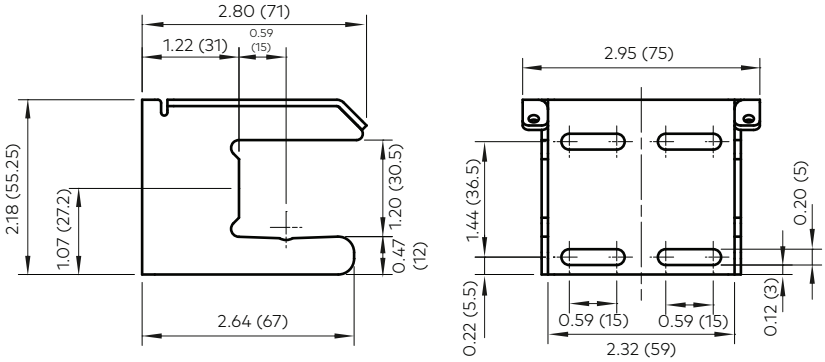




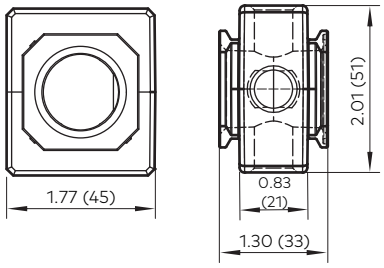
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Dimensions in inches (mm)
Projection/Third angle

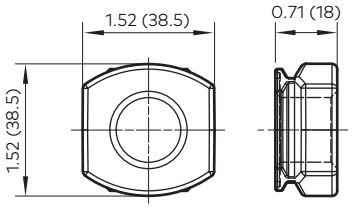
## Mounting bracket



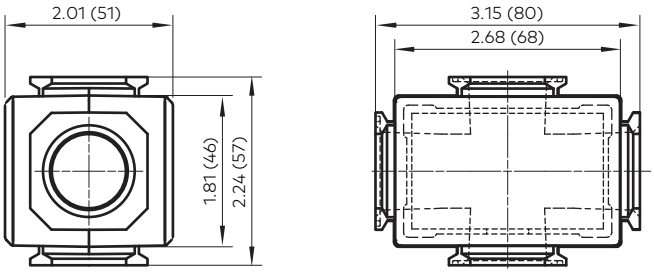

## Pressure sensing block



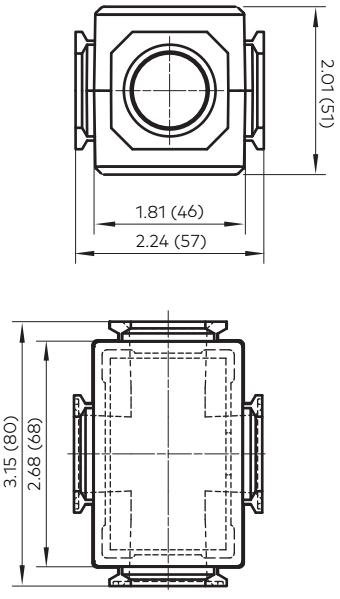

## Pipe adaptor



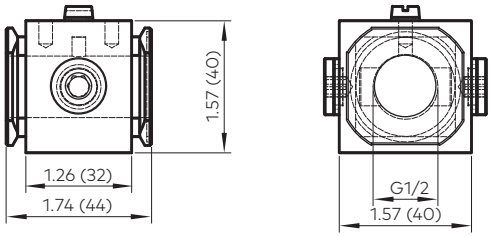

## Full flow porting block horizontal




## Full flow porting block vertical




## Porting block for 18D pressure switch






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