- **Port size: 3/8” ... 3/4” (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 vapours and most hydrocarbon odours**
- **Double safety lock bowl**
- **Light weight Polycarbonate bowl**
- **Metal bowl option**
- **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/m$^3$


## Technical features

**Medium:**
Compressed air only
**Maximum operating pressure:**
Polycarbonate bowl: 10 bar (145 psi)
Metal bowl: 20 bar (290 psi)
**Remaining oil content:**
0,003 mg/m$^3$ max. at +21°C (+69°F)
**Port size:**
G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

**Flow:**
25 dm$^3$/s
To maintain stated oil content at port size: G1/2
Operating pressure:
6,3 bar (91 psi)

**Ambient/Media temperature:**
-20 ... +65°C (-4 ... +149°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
**Note:**
Install an F84C coalescing filter upstream of the F84V filter for maximum service life.

**Materials:**
Body: Die cast aluminium
Body covers: ABS
Bowl: Transparent PC with PP guard or die cast aluminium
Bowl ‘o’- ring: Chloroprene
Elastomers: NBR

## Technical data F84V - standard models

| Symbol | Port size | Drain | Filter element (µm) | Bowl | Weight (kg) | Model |
|---|---|---|---|---|---|---|
|  | G3/8 | Closed bowl | Vapor removal | Guarded polycarbonate | 0,38 | F84V-3GN-EPA |
| | G1/2 | Closed bowl | Vapor removal | Guarded polycarbonate | 0,38 | F84V-4GN-EPA |
| | G3/4 | Closed bowl | Vapor removal | Guarded polycarbonate | 0,38 | F84V-6GN-EPA |
| | G3/8 | Closed bowl | Vapor removal | Metal bowl - no sight glass | 0,52 | F84V-3GN-EMA |
| | G1/2 | Closed bowl | Vapor removal | Metal bowl - no sight glass | 0,52 | F84V-4GN-EMA |
| | G3/4 | Closed bowl | Vapor removal | Metal bowl - no sight glass | 0,52 | F84V-6GN-EMA |

## Option selector

F84V-★★N-E★A

| Port size | Substitute |
|---|---|
| 3/8" | **3** |
| 1/2" | **4** |
| 3/4" | **6** |

| Bowl | Substitute |
|---|---|
| Metal | **M** |
| Transparent with guard (standard) | **P** |
| **Thread form** | **Substitute** |
| PTF | **A** |
| ISO G parallel (standard) | **G** |

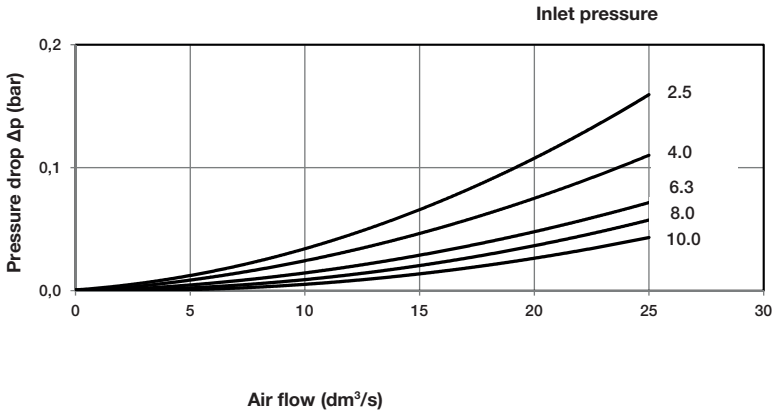
## Typical performance characteristics

| Inlet pressure (bar) | Maximum flow ($dm^3/s$) *1) |
|---|---|
| 2,50 | 15 |
| 4,00 | 20 |
| 6,30 | 25 |
| 8,00 | 28 |
| 10,00 | 30 |

*1) Maximum flow to maintain stated oil removal performance

## Flow characteristics

**Port size: 1/2”**

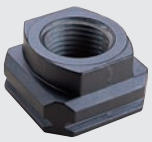
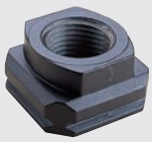
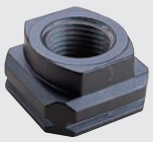
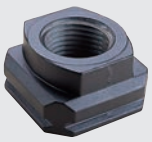
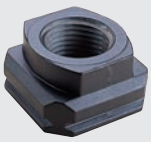
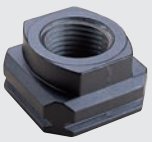


## Accessories

| Wall mounting bracket | Quikclamp® | Quikclamp® with bracket assembled | Pressure sensing block 1/4 PTF | Pressure sensing block G1/4 |
|---|---|---|---|---|
|  |  |  |  |  |
| Page 5 | Page 5 | Page 5 | Page 5 | Page 5 |
| 840024-50KIT | 840014-51KIT | 840014-52KIT | 840016-50KIT | 840016-51KIT |

| Full flow porting block 3/4 PTF | Full flow porting block G3/4 | Pressure switch interface block (18D pressure switch) | Pneumatic pressure switch 18D (0,5 ... 8 bar) *1) | Digital pressure switch 51D (-1 ... 10 bar) *2) |
|---|---|---|---|---|
|  |  |  |  |  |
| Page 5 | Page 5 | Page 6 | Page 6 | Page 6 |
| 840028-50KIT | 840028-53KIT | 0337717000000000 | 0881300 | 0860810 |

*1) Flanged version. For other pressure ranges, please see data sheet 5.11.001
*2) For other pressure ranges, please see data sheet 5.11.385

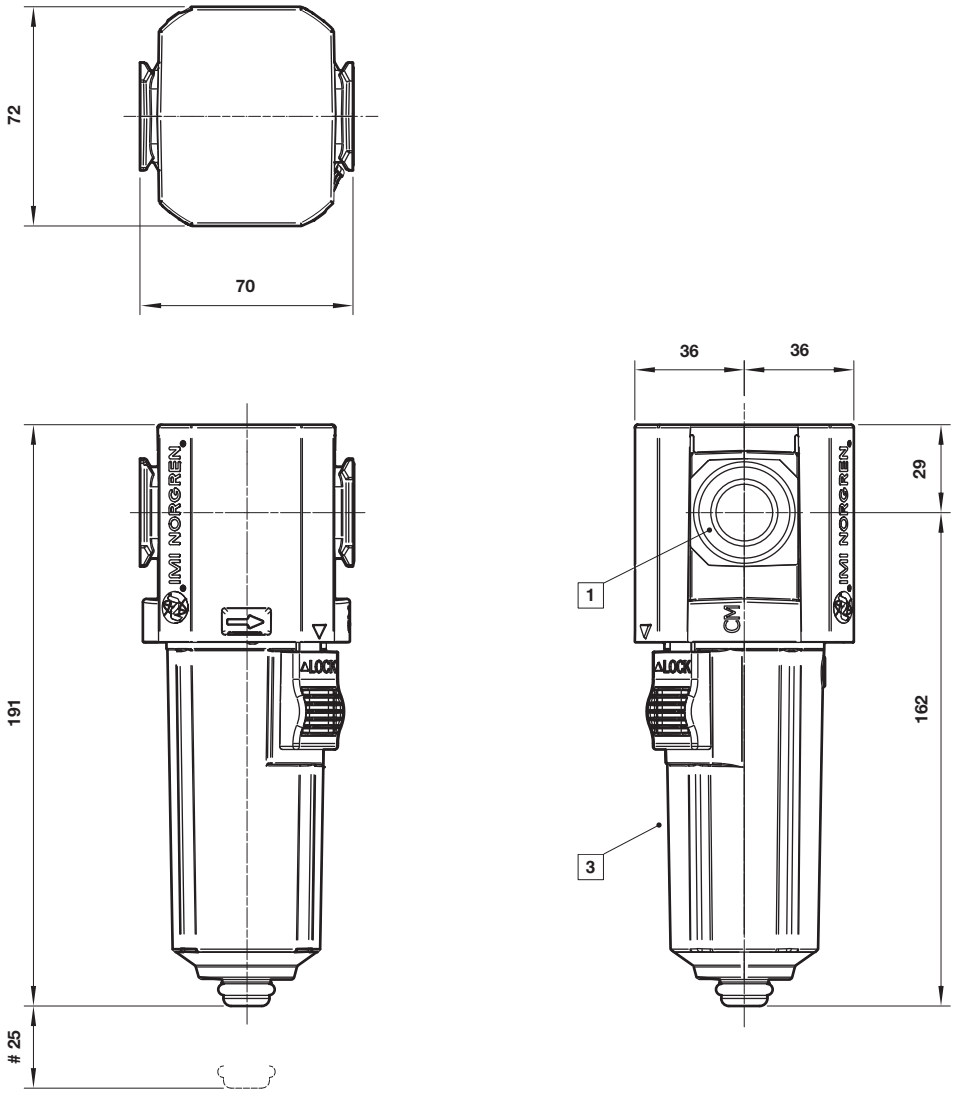
| Port Adaptors 3/8 PTF | Port Adaptors 1/2 PTF | Port Adaptors 3/4 PTF | Port Adaptors G3/8 | Port Adaptors G1/2 | Port Adaptors G3/4 |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Page 6 | Page 6 | Page 6 | Page 6 | Page 6 | Page 6 |
| 840015-02KIT | 840015-03KIT | 840015-04KIT | 840015-10KIT | 840015-11KIT | 840015-12KIT |

## Maintenance/Service

| Vapour Removal filter element |
|---|
|  |
| 840041-50KIT |

## Dimensions

Dimensions in mm
Projection/Third angle

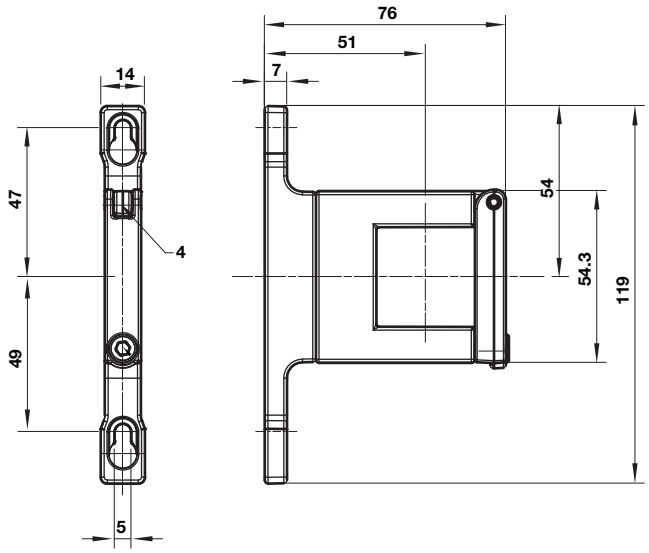



# Minimum clearance for bowl removal
1 Main ports 3/8", 1/2" or 3/4" (ISO G/PTF)
2 Transparent bowl with guard
3 Metal bowl

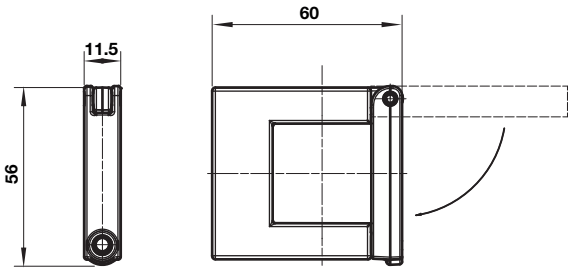
## Accessories

Dimensions in mm
Projection/Third angle

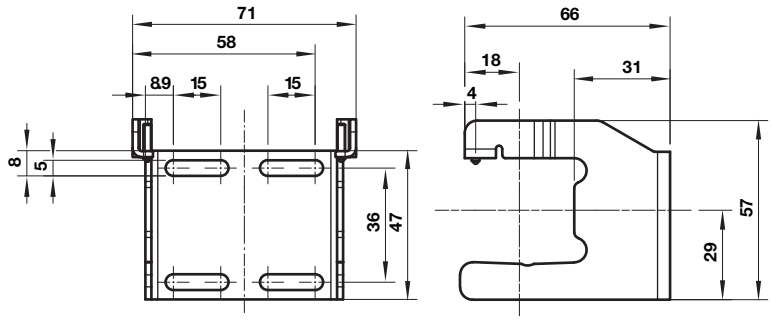
### Quikclamp® with wall bracket



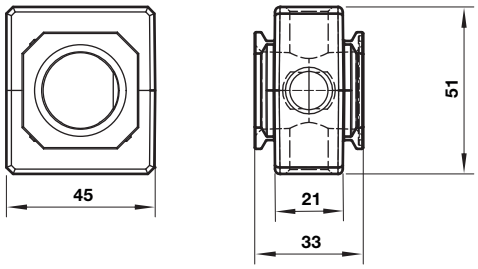

### Quikclamp®



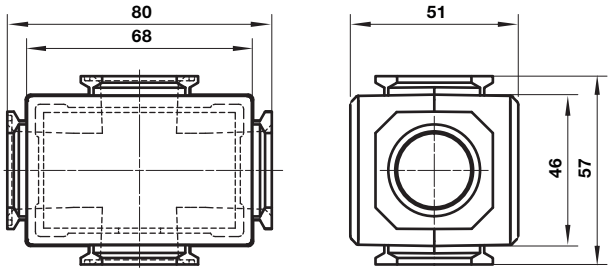

### Mounting bracket



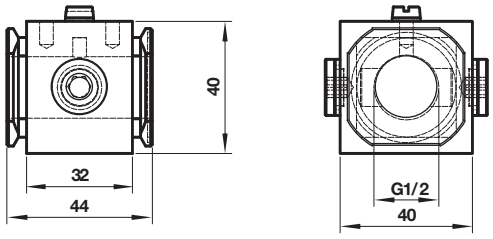

### Pressure sensing block




### Full flow porting block

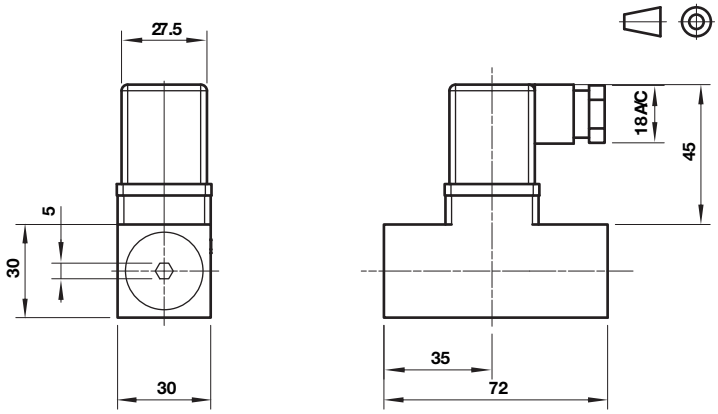


## Porting block for 18D pressure switch

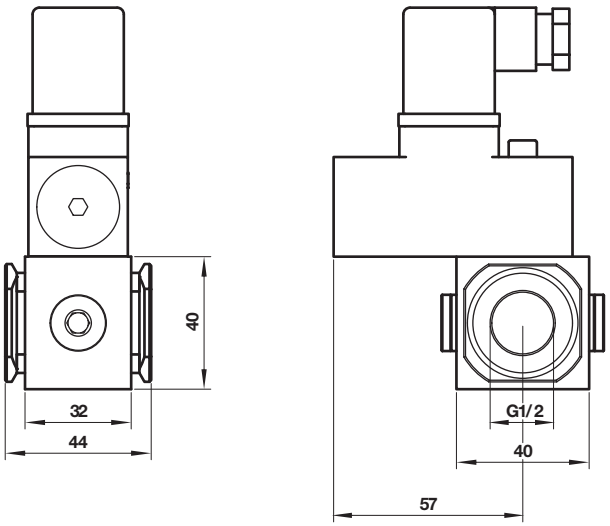



## 18D Pressure switch

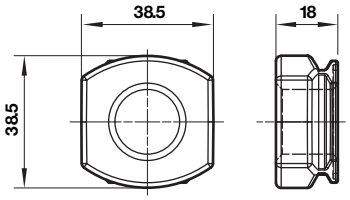
Dimensions in mm
Projection/Third angle



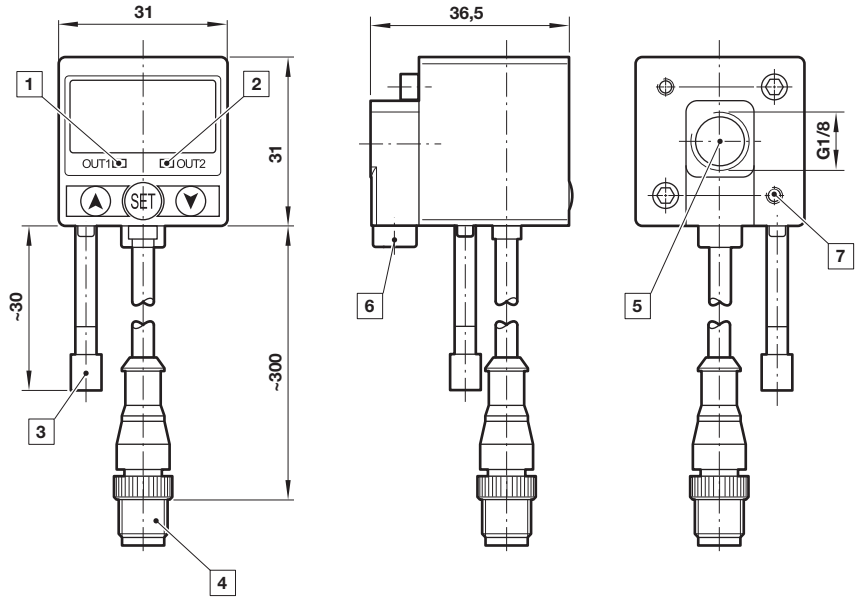

## 18D Porting block and 18D assembled




## 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.