


# F82V - Oil vapour removal filters 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
- Adsorbing type activated carbon element removes oil vapours
- Double safety lock bowl
- Light weight Polycarbonate bowl
- Metal bowl option
-  DoC in accordance with 2014/34/EU/ATEX
- Air purity class in accordance with ISO8573-1:2010 : -:7:0\*



\*Tested in accordance with the methods laid out in ISO 12500-2 using an inlet oil aerosol concentration of 0.018mg/m<sup>3</sup>

## Technical features

### Medium:

Compressed air only

### Maximum operating pressure:

Polycarbonate bowl:

10 bar (145 psi)

Metal bowl: 17 bar (246 psi)

### Remaining oil content:

0,003 mg/m<sup>3</sup> max. at +21°C (+69°F)

### Port size:

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

### Dry Element Flow:

4 dm<sup>3</sup>/s - Maximum flow to maintain stated oil removal performance at operating pressure: 6,3 bar (91 psi)

### Atex:

Filters F82 are in conformity with Atex 2014/34/EU

 II 2 GD

Ex h IIC T6 Gb

EX h IIIC T85°C Db

### Ambient/Media temperature:

Polycarbonate bowl:

-10 ... +60°C (+14 ... +140°F)

Metal bowl:

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

### Materials:

Body: Die cast aluminium

Body covers: ABS

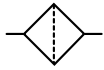
Transparent Bowl: Polycarbonate with Polypropylene Guard.

Metal Bowl: Die cast Zinc with PA liquid level indicator lens

Bowl 'o'- ring: Chloroprene

Elastomers: NBR

## Technical data F82V—standard models

Symbol	Port Size	Drain	Bowl	Weight (kg)	Model
	G1/4	Closed bowl	Guarded polycarbonate	0,20	F82V-2GN-EPA
	G3/8	Closed bowl	Guarded polycarbonate	0,40	F82V-3GN-EPA
	G1/4	Closed bowl	Metal bowl	0,21	F82V-2GN-EDA
	G3/8	Closed bowl	Metal bowl	0,40	F82V-3GN-EDA

## Option selector

F82V—★ ★ N — E ★ A

Port size	Substitute	Bowl	Substitute	Thread form	Substitute
1/4"	2	Metal	D	PTF	A
3/8"	3	Transparent with guard (standard)	P	ISO G (standard)	G

## Flow characteristics

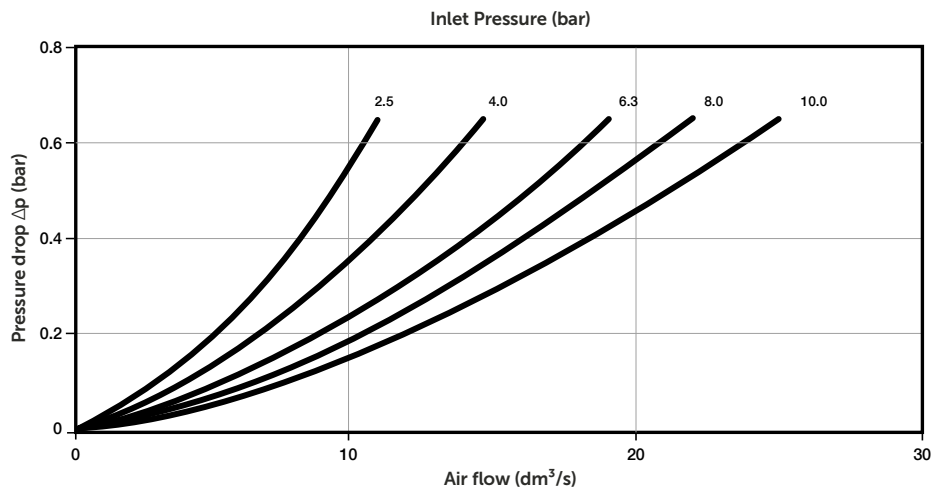
Port size: 1/4"

Vapor Removal Flow

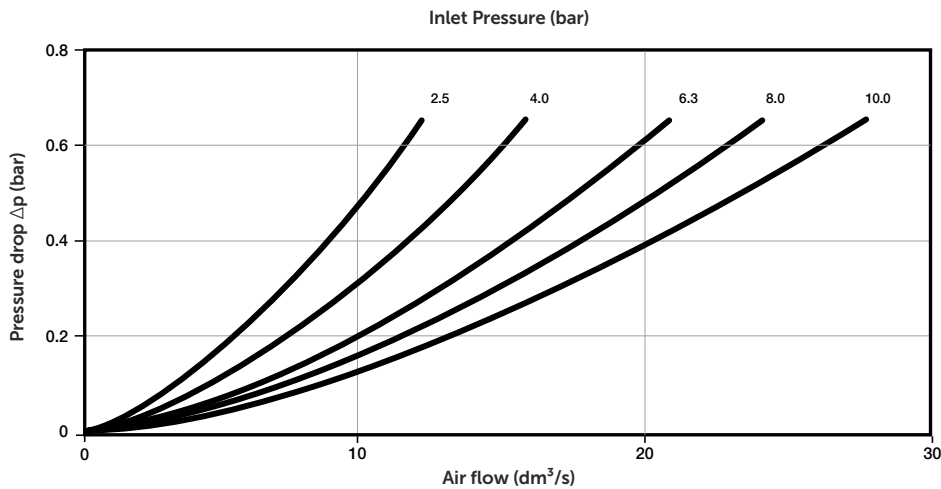
Inlet Pressure (bar)	Flow-rate to maintain media velocity of ISO12500-1 test on oil vapor filter (dm <sup>3</sup> /s)
2.5	1.9
4	2.8
6.3	4
8	5
10	6.1

## Dry Flow

Port size: 1/4"



Port size: 3/8"



## Accessories

<p>Wall mounting bracket</p>  <p>Page 4 820024-50KIT</p>	<p>Quikclamp</p>  <p>Page 4 820014-51KIT</p>	<p>Quikclamp with bracket assembled</p>  <p>Page 4 820014-52KIT</p>	<p>Pressure sensing block 1/4 PTF</p>  <p>Page 4 820016-50KIT</p>	<p>Pressure sensing block G1/4</p>  <p>Page 4 820016-51KIT</p>
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<p>Full flow porting block 3/8" PTF</p>  <p>Page 4 820028-50KIT</p>	<p>Full flow porting block G3/8</p>  <p>Page 4 820028-53KIT</p>
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<p>Pressure switch interface block (18D pressure switch)</p>  <p>Page 5 0523109000000000</p>	<p>Pneumatic pressure switch 18D (0,5 ... 8 bar) *1)</p>  <p>Page 5 0881300</p>	<p>Digital pressure switch 51D (-1 ... 10 bar) *2)</p>  <p>Page 5 0860810</p>
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\*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

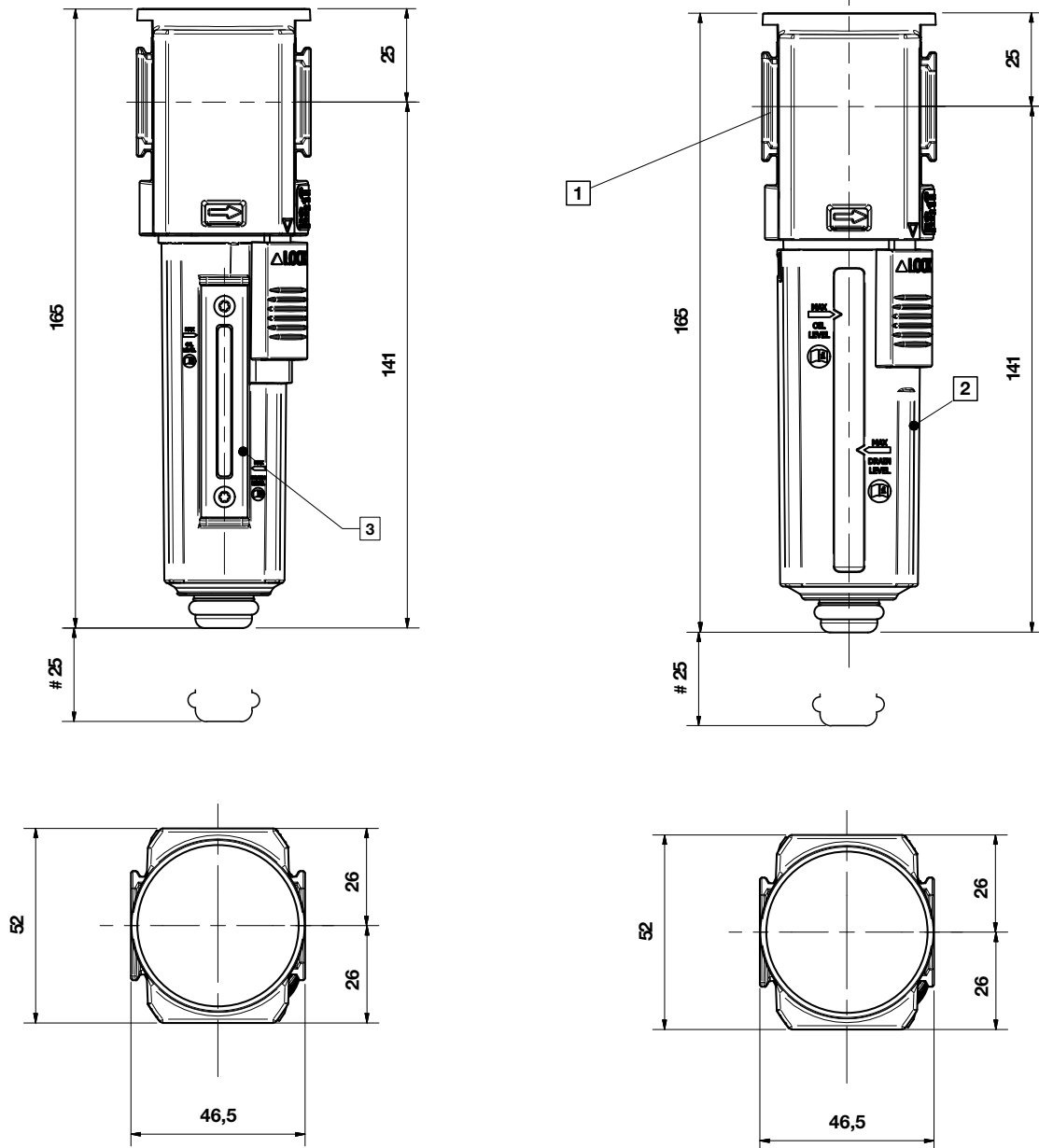
<p>Port Adaptors 1/4 PTF</p>  <p>Page 5 820015-02KIT</p>	<p>Port Adaptors 3/8 PTF</p>  <p>Page 5 820015-03KIT</p>	<p>Port Adaptors G1/4</p>  <p>Page 5 820015-08KIT</p>	<p>Port Adaptors G3/8</p>  <p>Page 5 820015-09KIT</p>
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## Maintenance/Service

<p>Vapour Removal filter element</p>  <p>820041-50KIT</p>	<p>Filter bowl Guarded Poly</p>  <p>820025-52KIT</p>	<p>Filter bowl Metal with sight glass</p>  <p>820003-52KIT</p>
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## Dimensions

Dimensions in mm  
Projection/First angle

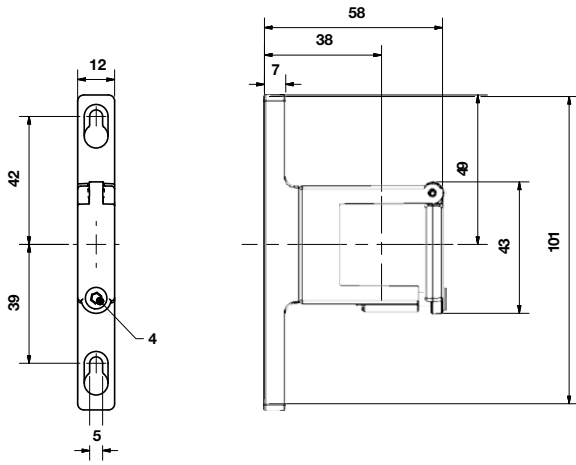


# Minimum clearance for bowl removal

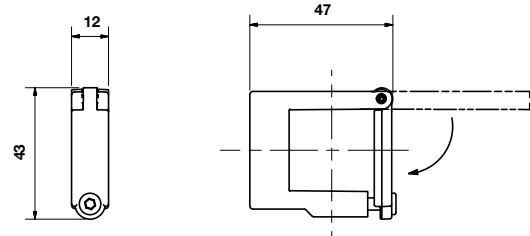
- 1 Main ports 1/4", 3/8" (ISO G/PTF)
- 2 Transparent bowl with guard
- 3 Metal bowl

Accessories

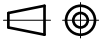
Quikclamp with wall bracket



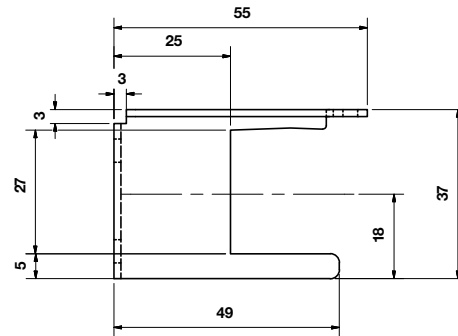
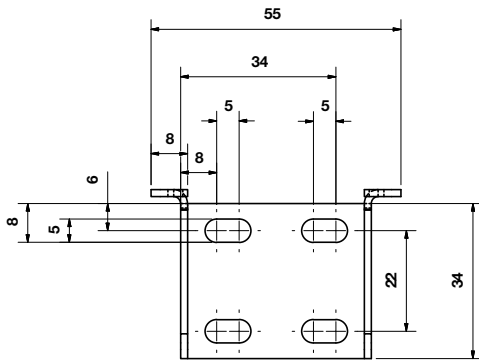
Quikclamp



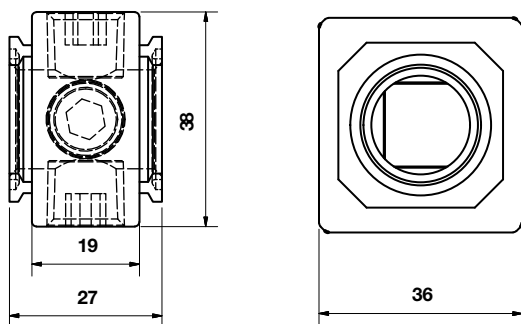
Dimensions in mm  
Projection/First angle



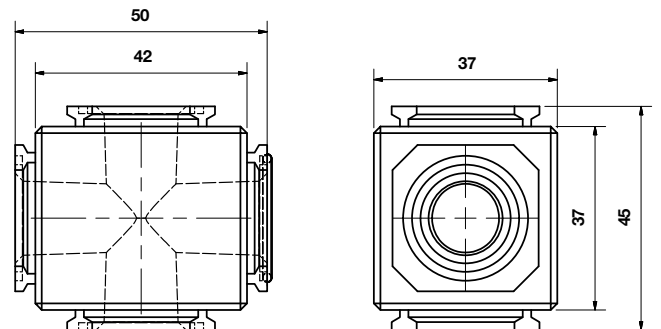
Mounting bracket



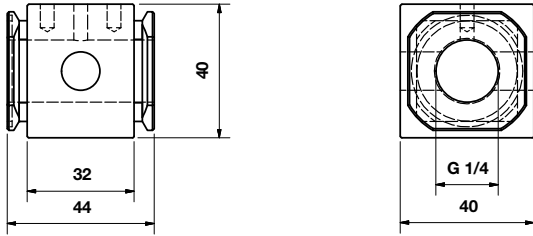
Pressure sensing block



Full flow porting block

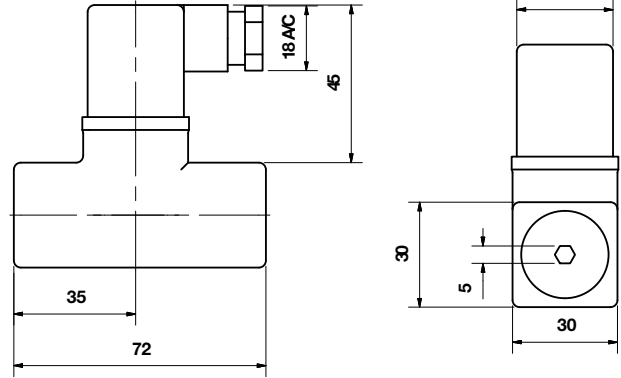


**Porting block for 18D pressure switch**

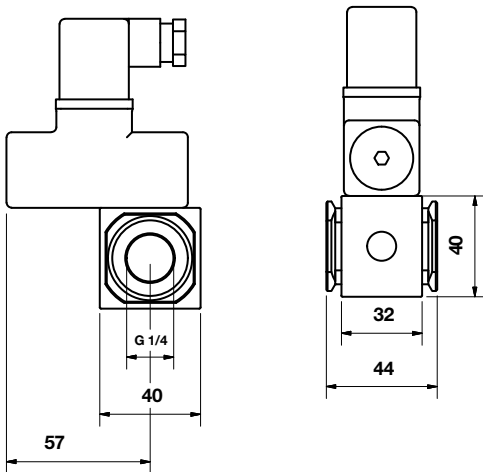


**18D Pressure switch**

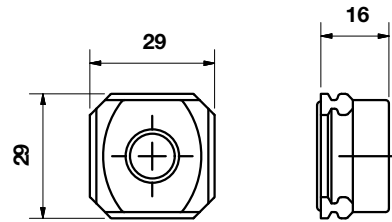
Dimensions in mm  
Projection/First angle



**18D Porting block and 18D assembled**

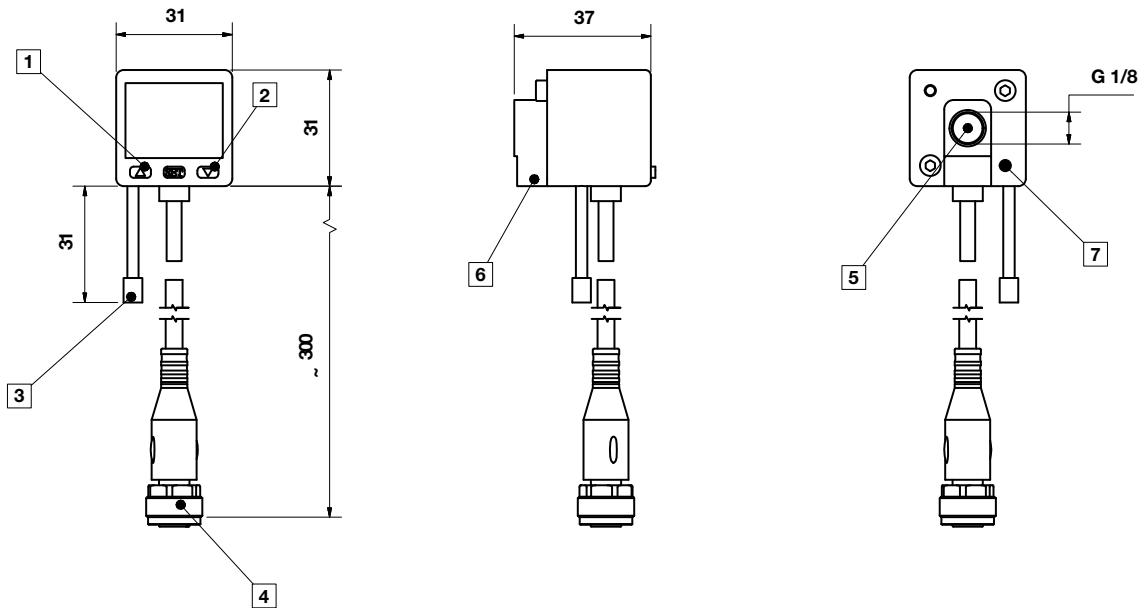


**Pipe adaptor**



## 51D Pressure switch - digital

Dimensions in mm  
Projection/First angle



- 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 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.