

Industrial Automation

IMI Norgren

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
- Ex DoC in accordance with 2014/34/EU/ATEX
- Air purity class in accordance with ISO8573-1:2010 : -:7:0*



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 3 max. at +21 $^{\circ}$ C (+69 $^{\circ}$ F)

Port size:

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

Dry Element Flow:

4 dm³/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).

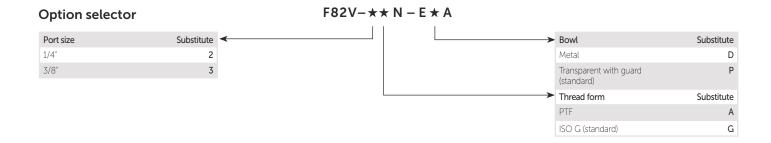
Note: Install an F82C coalescing filter upstream of the F82V filter for maximum service life.

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-FDA |



^{*}Tested in accordance with the methods laid out in ISO 12500-2 using an inlet oil aerosol concentration of 0.018mg/m 3



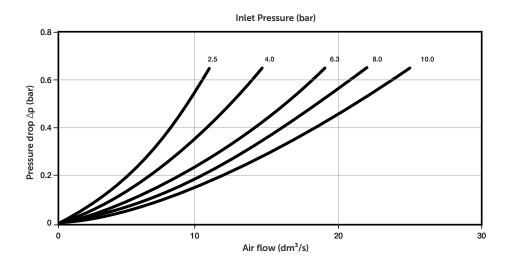
Flow characteristics

Port size: 1/4" Vapor Removal Flow

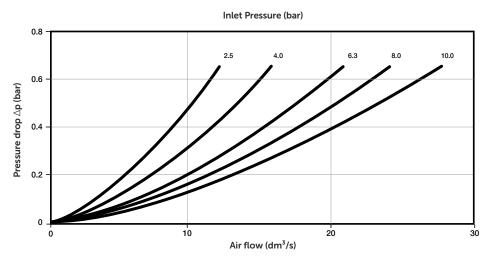
| Inlet Pressure (bar) | Flow-rate to maintain media velocity of ISO12500-1 test on oil vapor filter ($\rm dm^3/s$) |
|-------------------------|--|
| 2.5 | 1.9 |
| 4 | 2.8 |
| 6.3 | 4 |
| 8 | 5 |
| 10 | 6.1 |

Dry Flow

Port size: 1/4"



Port size: 3/8"





Accessories



















- $^{\star}1)$ Flanged version. For other pressure ranges, please see data sheet 5.11.001 $^{\star}2)$ For other pressure ranges, please see data sheet 5.11.385









Maintenance/Service







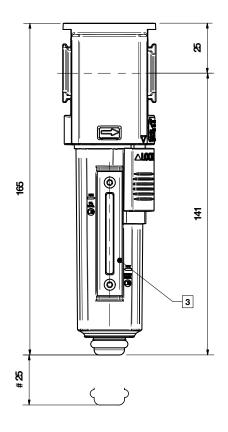


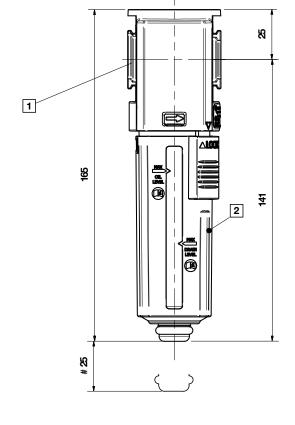
Dimensions

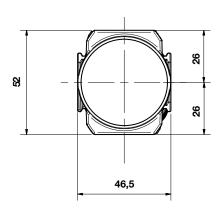
Dimensions in mm Projection/First angle

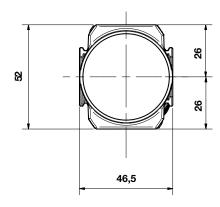














Accessories

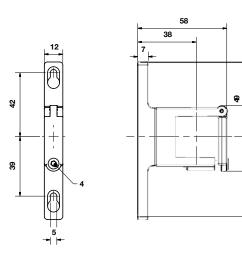
Quikclamp with wall bracket

Quikclamp

Dimensions in mm Projection/First angle

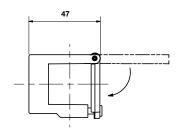




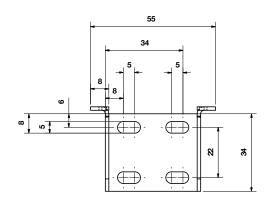


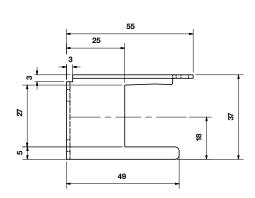


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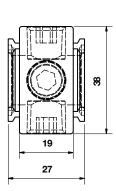


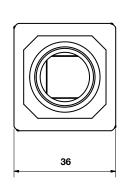
Mounting bracket



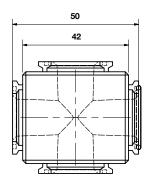


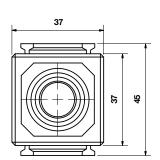
Pressure sensing block





Full flow porting block







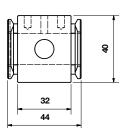
Porting block for 18D pressure switch

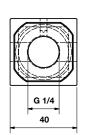
18D Pressure switch

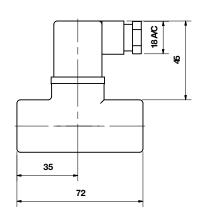
Dimensions in mm Projection/First angle

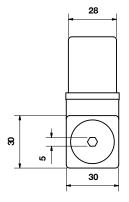






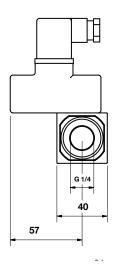


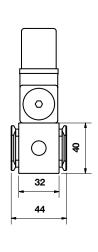


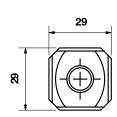


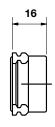
18D Porting block and 18D assembled

Pipe adaptor









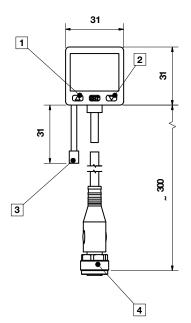


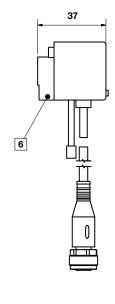
51D Pressure switch - digital

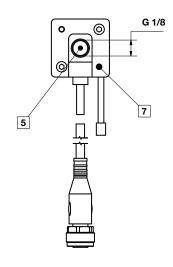
Dimensions in mm Projection/First angle











- Switch OUT 1, green LED
 Switch OUT 2, red LED
 Dustproof protector
 Connector M12 x 1
 Inlet port
 Alternative inlet port G1/8 plugged
 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.