

F84V - Oil vapour removal filters Excelon® Plus Modular System

- > 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 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/m³



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/m³ 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 dm³/s To maintain stated oil content at port size: G1/2 Operating pressure: 6,3 bar (91 psi) Atex: Filters F84 are in conformity with Atex 2014/34/EU (Ex) II 2 GD Ex h IIC T6 Gb EX h IIIC T85°C Db

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 Transparent Bowl : Polycarbonate with Polyproplyene Guard. Metal Bowl: 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
\rightarrow	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 Т Substitute < Substitute Bowl 3/8" 3 Metal м Transparent with guard (standard) Р 1/2" 4 3/4" 6 Thread form Substitute PTF Α ISO G parallel (standard) G

Typical performance characteristics

Inlet pressure	Maximum flow
(bar)	(dm³/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"



Port size: 3/8"





Quikclamp°

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G1/4

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G3/4

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840028-53KIT

840016-51KIT

Full flow porting block

840014-51KIT

Pressure sensing block

Accessories



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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
- *3) Q84G standalone electronic pressure sensor module
 - see http://s.norgren.com/digital-gauge-iodd for data-sheet 8.900.905.

Maintenance/Service





840014-52KIT

Full flow porting block

3/4" PTF

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840028-68KIT

Electronic Pressure Sensor

stand alone version *3





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





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3/8 PTF	840015-02KIT
1/2 PTF	840015-03KIT
3/4 PTF	840015-04KIT
G3/8	840015-10KIT
G1/2	840015-11KIT
G3/4	840015-12KIT

IO-Link cables

M8 female to free end



5,0

Glass & auto drain, 1/4 PIF) 840003-56KIT

Q84G

02/21

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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

Quikclamp° with wall bracket



Hybrid-Quikclamp° with wall bracket



Quikclamp®

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Dimensions in mm Projection/Third angle \ominus





Hybrid-Quikclamp°



Mounting bracket





Pressure sensing block







Full flow porting block horizontal



Full flow porting block vertical

Dimensions in 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



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**«.

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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.

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Dimensions in mm