

HF84C - Oil Removal Filter For Extreme Temperature Applications 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
- High efficiency oil and particle removal
- Easy filter maintenance system. Element is removed together with the bowl for faster and cleaner servicing

- > Double safety lock bowl
- Salt spray compliant to ISO 9227
- > Air purity class in accordance with ISO8573-1:2010: 1:7:1* *Tested in accordance with the methods laid out in ISO 12500-1 using an inlet oil aerosol concentration of 4mg/m³
- > ABS cover with high impact properties





Technical features

Medium: Compressed air only Maximum supply pressure: 290 psi (20 bar) Remaining oil content: 0.01 mg/m³ at +69°F (21°C) Particle removal: To 0.01 μm Port size: G3/8, G1/2, G3/4, 3/8 PTF, 1/2 PTF, 3/4 PTF

Flow:

Maximum flow to maintain stated oil removal performance at challenge rate of 4 mg/m³ HF84C: 53 scfm (25 dm³/s), at port size: 1/2" Operating pressure: 91 psi (6.3 bar) **Drain:** Manual or automatic **Automatic drain operating**

conditions (float operated): Bowl pressure required to close drain: > 5 psi (0.35 bar) Bowl pressure required to open drain: < 2.9 psi (0.2 bar) Minimum air flow required to close drain: 2 scfm (1 dm³/s)

Ambient/Media temperature:

-40 ... +176°F (-40 ... +80°C) Air supply must be dry enough to avoid ice formation at temperatures below (+35°F) (+2°C).

Note:

Install an HF84G filter with a 5 µm filter element upstream of the HF84C filter for maximum service life. Atex:

Filters HF84 are in conformity with Atex 2014/34/EU (x) II 2 GD

Éx h IIC T6 Gb EX h IIIC T85°C Db

Materials:

Body: Die cast aluminum Body covers: ABS (Magnum 3904) Metal Bowl: Die cast aluminum Filter element: Synthetic fibre & Polyethylene foam Bowl O-ring: Low temperature nitrile Elastomers: Low temperature nitrile

Technical data HF84C - standard models

Symbol	Port size	Drain	Bowl	Weight Ibs. (kg)	Model
-	3/8	Auto	Metal with level indicator	1.15 (0.52)	HF84C-3AN-AD0
	1/2	Auto	Metal with level indicator	1.12 (0.51)	HF84C-4AN-AD0
	3/4	Auto	Metal with level indicator	1.08 (0.49)	HF84C-6AN-AD0
\rightarrow	3/8	Manual	Metal with level indicator	1.15 (0.52)	HF84C-3AN-MD0
	1/2	Manual	Metal with level indicator	1.12 (0.51)	HF84C-4AN-MD0
	3/4	Manual	Metal with level indicator	1.08 (0.49)	HF84C-6AN-MD0







Option selector

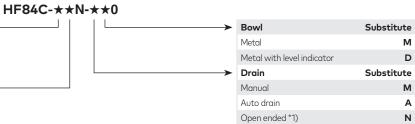
•		
Port size	Substitute	<
3/8"	3	
1/2"	4	
3/4"	6	
Thread form	Substitute	<
PTF	А	
ISO G	G	

Typical performance characteristics

Inlet pressure	Maximum flow	
psi (bar)	scfm (dm³/s)*1)	
36.26 (2.50)	25 (12)	
58.01 (4.00)	36 (17)	
91.37 (6.30)	53 (25)	
116.03 (8.00)	64 (30)	
145.04 (10.00)	74 (35)	

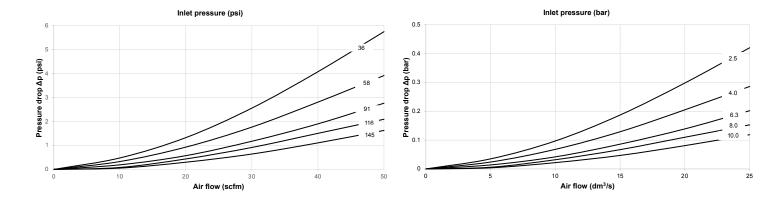
*1) Maximum flow to maintain stated oil removal performance

Flow characteristics Port size: 1/2"

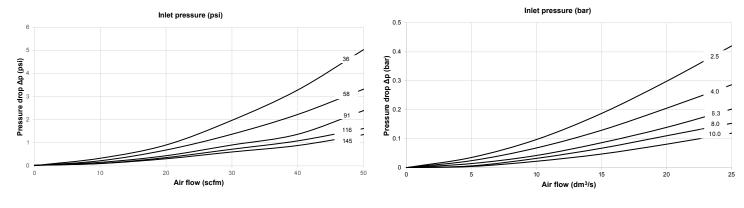


(with male thread adaptor)

*1) Available on request









Accessories



Page 5 840024-50KIT



Full flow porting block, horizontal, 3/4 PTF

H840016-50KIT

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Page 6

H840028-50KIT

Pressure switch 18D

088130000000000



Quikclamp



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*2) -4 ... +140°F (-20 ... +60°C) *4) -14° ...+185°F (-10°... +85°C)

Maintenance/Service







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Full flow porting block,

vertical, 3/4 PTF

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H840028-68KIT







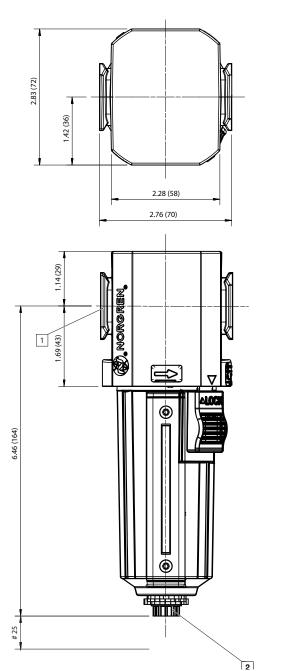


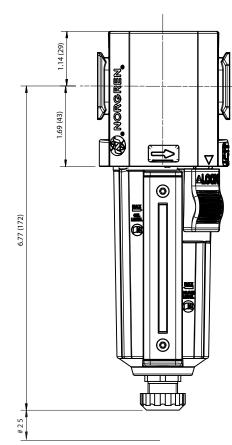
Automatic Drain

Dimensions

Dimensions in inches (mm) Projection/Third angle







Manual Drain

Minimum clearance for bowl removal
Main ports 3/8", 1/2" or 3/4"(ISO G/PTF)
Port size automatic drain : 1/8



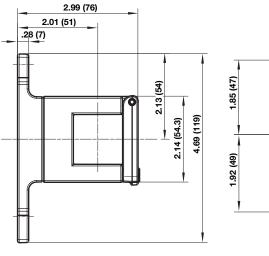
Accessories

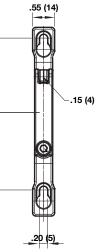
Quikclamp[®] with wall bracket

Dimensions in inches (mm) Projection/Third angle

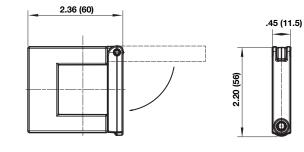
Quikclamp®





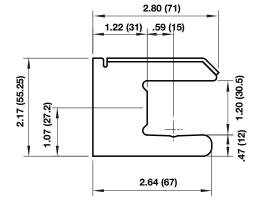


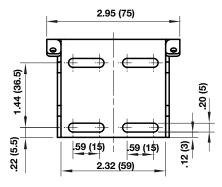
1.57 (40)

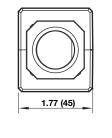


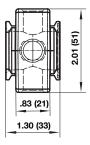
Pressure sensing block

Mounting bracket

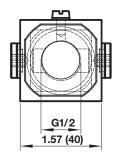




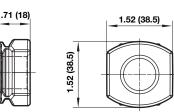




Full flow porting block horizontal



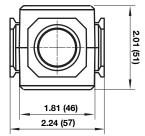
Pipe adaptor

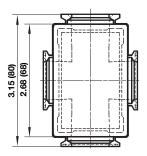


1.26 (32)

1.73 (44)

Full flow porting block vertical

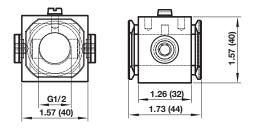




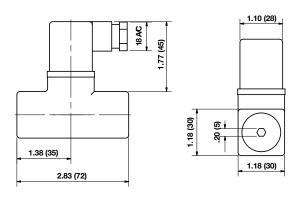
Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2019 - 9261a) © 2015 IMI International s.r.o.



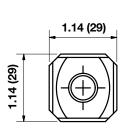
Porting block for 18D pressure switch

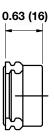


18D Porting block and 18D assembled



18D Pressure switch





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. 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.

Dimensions in inches (mm) Projection/Third angle

