HF84G - General purpose 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**
- **5 or 40 micron particle and high efficiency water removal (> 98%)**
- **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 classes in accordance to ISO8573-1:2010: 7:8:4 (40µm) 6:8:4 (5µm)**
- **ABS cover with High impact properties**

+80°C (+176°F)

-40°C (-40°F)

Technical features

Medium:
Compressed air only
Maximum supply pressure:
20 bar (290 psi)
Filter element:
5 µm & 40 µm
Port size:
G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

Flow:
78 dm^3/s
at port size: 1/2",
operating pressure 6.3 bar (91 psi) and a Δp: 0.5 bar (7.25 psi) drop from set.
Filter element: 40 µm
Drain:
Manual or automatic
Automatic drain operating conditions (float operated):
Bowl pressure required to close drain: > 0.35 bar (5 psi)
Bowl pressure required to open drain: ≤ 0.2 bar (2.9 psi)
Minimum air flow required to close drain: 1 dm^3/s (2 scfm)

Ambient/Media temperature:
-40 ... +80°C (-40 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).
Atex:
Filters HF84 are in conformity with Atex 2014/34/EU
Ⓔx II 2 GD
Ex h IIC T6 Gb
EX h IIIC T85°C Db

Materials:
Body: Die cast aluminium
Body covers:
ABS (Magnum 3904)
Metal Bowl: Die cast Aluminium
Filter element:
sintered Polypropylene
Bowl O-ring:
Low temperature Nitrile
Elastomers:
Low temperature Nitrile

Technical data HF84G - standard models

Symbol	Port size	Drain	Filter element (µm)	Bowl	Weight (kg)	Model
	G3/8	Manual	40	Metal with level indicator	0.51	HF84G-3GN-MD3
	G1/2	Manual	40	Metal with level indicator	0.50	HF84G-4GN-MD3
	G3/4	Manual	40	Metal with level indicator	0.48	HF84G-6GN-MD3
	G3/8	Auto	40	Metal with level indicator	0.51	HF84G-3GN-AD3
	G1/2	Auto	40	Metal with level indicator	0.51	HF84G-4GN-AD3
	G3/4	Auto	40	Metal with level indicator	0.49	HF84G-6GN-AD3

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Option selector

HF84G-★★N-★★★

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

Thread form	Substitute
PTF	**A**
ISO G	**G**

Element	Substitute
5 µm	**1**
40 µm (standard)	**3**

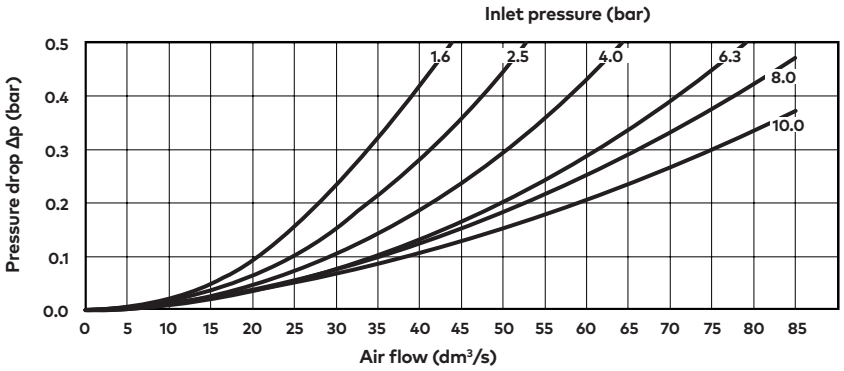
Bowl	Substitute
Metal	**M**
Metal with level indicator	**D**

Drain	Substitute
Manual	**M**
Auto drain	**A**
Open ended *1) (with male thread adaptor)	**N**

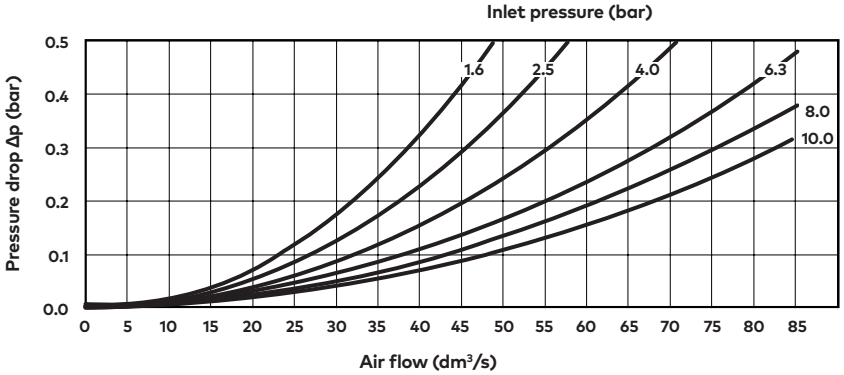
*1) Available on request

Flow characteristics

Element 40 µm
Port size: 1/2"



Element 5 µm
Port size: 1/2"



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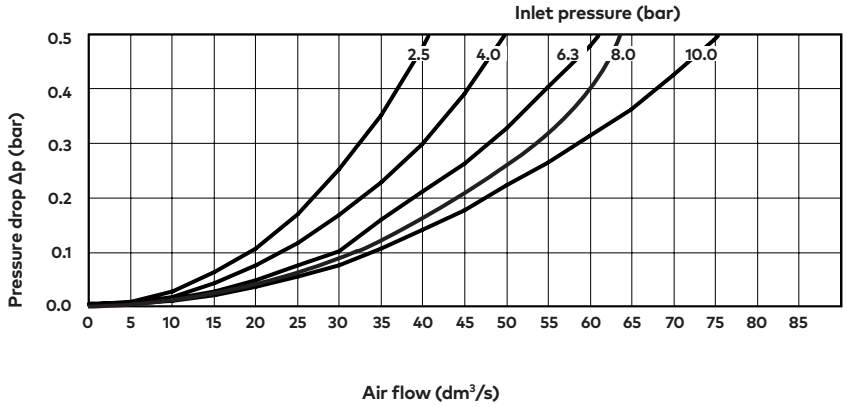
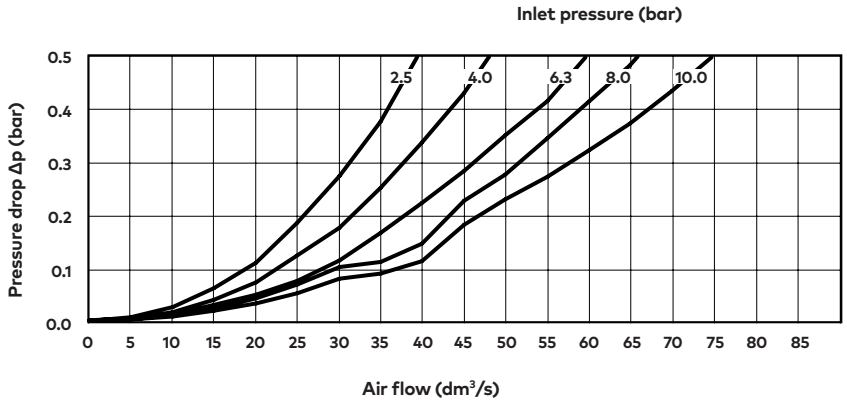
Flow characteristics

Element 40 µm
Port size:3/8"



Element 5 µm
Port size: 3/8"



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Accessories

Wall mounting bracket

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840024-50KIT

Quikclamp®

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H840014-51KIT

Quikclamp® with bracket assembled

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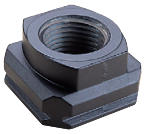
H840014-52KIT

Port Adaptors



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3/8 PTF	H840015-02KIT
1/2 PTF	H840015-03KIT
3/4 PTF	H840015-04KIT
G3/8	H840015-10KIT
G1/2	H840015-11KIT
G3/4	H840015-12KIT

Pressure sensing block 1/4 PTF

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H840016-50KIT

Pressure sensing block G1/4

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H840016-51KIT

Full flow porting block, horizontal, 3/4 PTF

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H840028-50KIT

Full flow porting block, horizontal, G3/4

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H840028-53KIT

Full flow porting block, vertical, 3/4 PTF

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H840028-68KIT

Full flow porting block, vertical, G3/4

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H840028-69KIT

Pressure switch 18D (0,5 ... 8bar) *4

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0881300

Digital pressure switch 51D (-1 ... 10 bar) *2

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0860810

Pressure switch interface block (18D pressure switch) G1/4

Page 6

0337717000000000

*2) -20 ... +60°C (-4 ... +140°F)

*4) -10°.. +85°C (-14° ...+185°F)

Maintenance/Service

Filter cartridge 5 micron

H840038-50KIT

Filter cartridge 40 micron

H840038-51KIT

Auto drain kit with metal Nut - Imperial

3000-70

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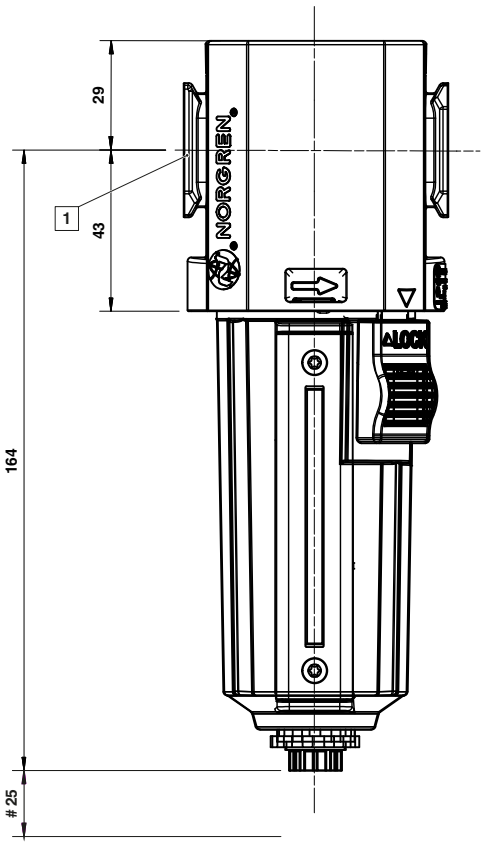
Dimensions

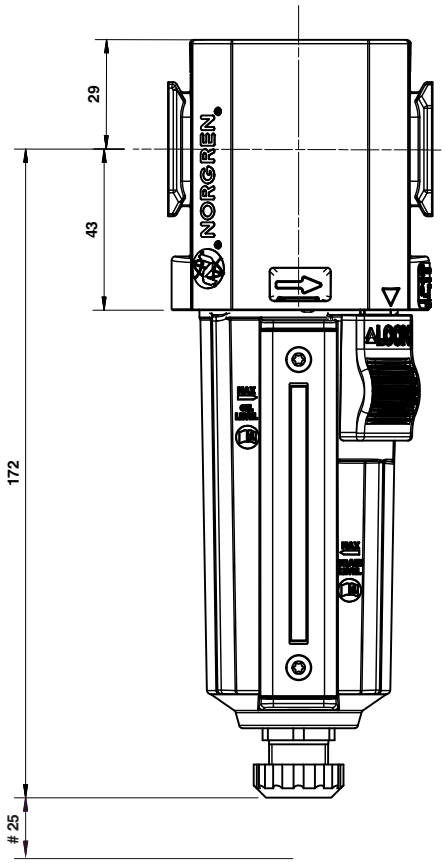
Dimensions in mm

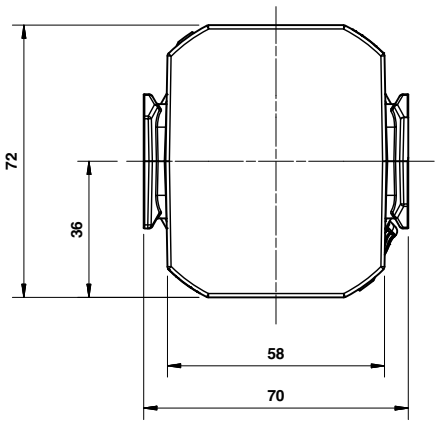
Projection/First angle

Automatic Drain



Manual Drain





Minimum clearance for bowl removal

1 Main ports 3/8", 1/2" or 3/4" (ISO G/PTF)

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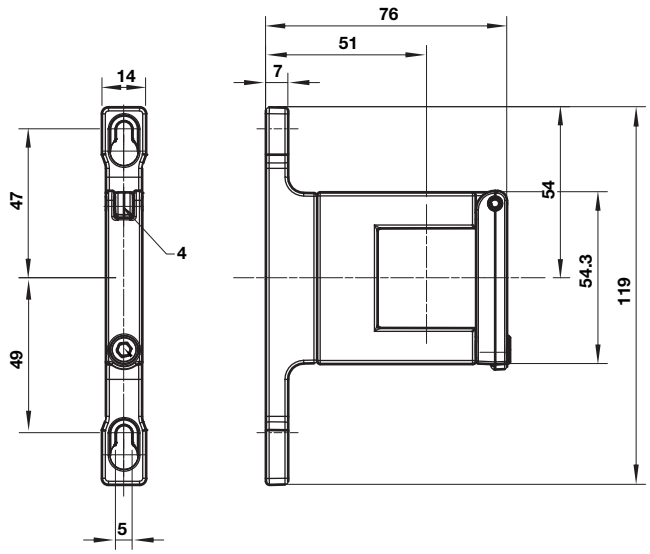
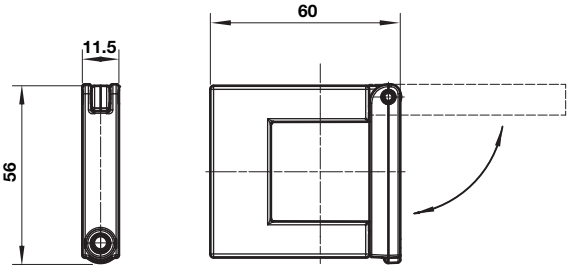
Accessories

Dimensions in mm
Projection/First angle

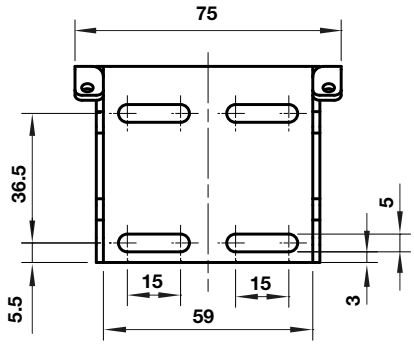
Quikclamp® with wall bracket

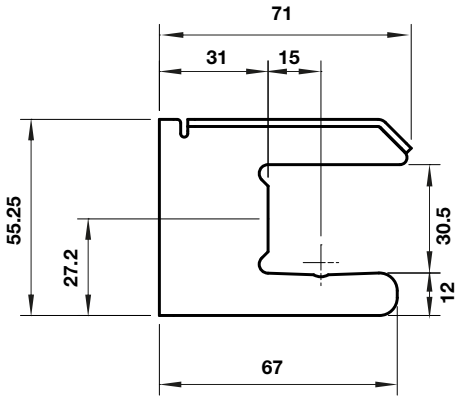


Quikclamp®

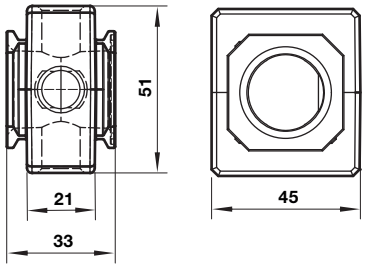


Mounting bracket

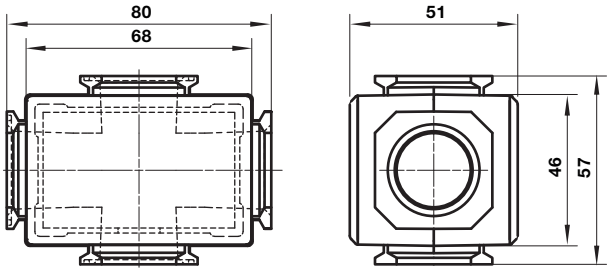




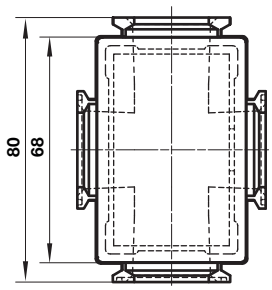
Pressure sensing block



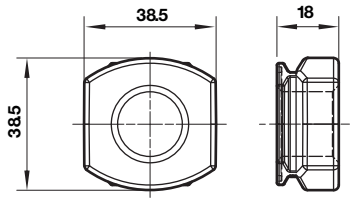
Full flow porting block horizontal

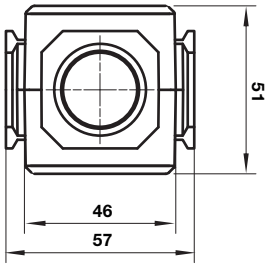


Full flow porting block vertical



Pipe adaptor





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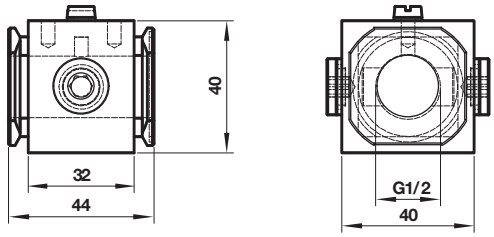
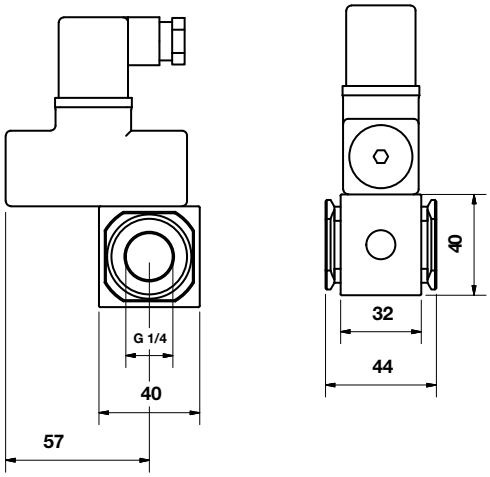
Porting block for 18D pressure switch

Dimensions in mm

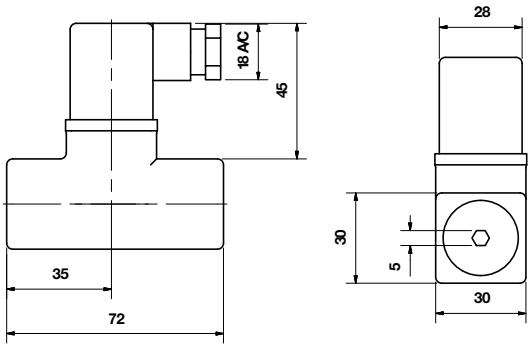
Projection/First angle



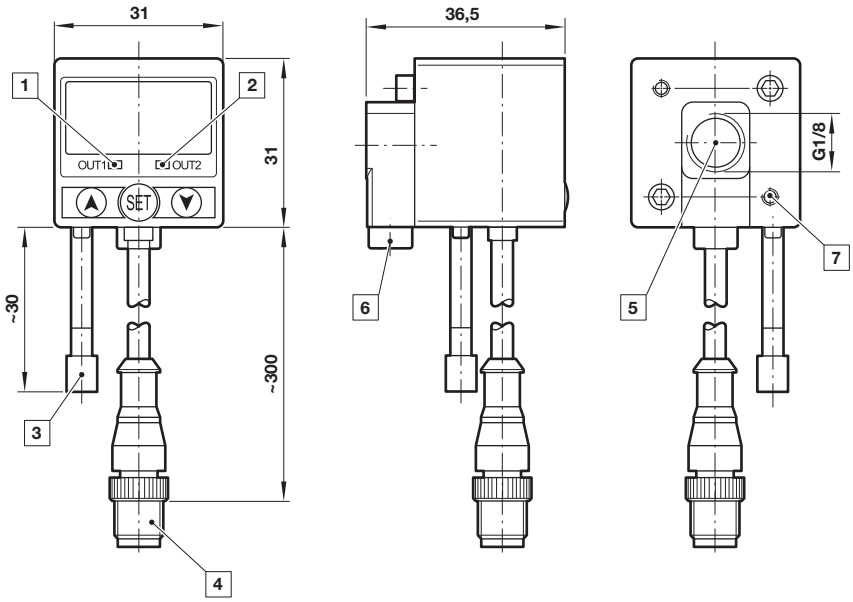
18D Porting block and 18D assembled



18D Pressure switch



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 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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