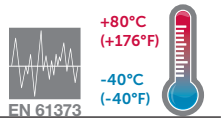
LF84G -
General purpose filter for Rail application
Excelon® Plus Modular System

- 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 (500 hrs)
- Shock and vibration tested to EN61373 Category 2*
  *(includes qualification category 1, class A and B)
- Fire & Smoke compliant to EN45545-2 (HL3) grouping rules*
  * (for single units only, please consult our technical department regarding combinations of these units)
- Air purity classes in accordance to ISO8573-1:2010: 7:8:4 (40µm) 6:8:4 (5µm)



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 dm3/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 dm3/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 LF84 are in conformity with Atex 2014/34/EU
II 2 GD
Ex h IIC T6 Gb
EX h IIIC T85°C Db

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

Technical data LF84G - standard models

Symbol	Port size	Drain	Filter element (µm)	Bowl	Weight (kg)	Model
	G3/8	Auto	5	Metal	0.51	LF84G-3GN-AM1
	G1/2	Auto	5	Metal	0.51	LF84G-4GN-AM1
	G3/4	Auto	5	Metal	0.49	LF84G-6GN-AM1
	G3/8	Manual	5	Metal	0.51	LF84G-3GN-MM1
	G1/2	Manual	5	Metal	0.50	LF84G-4GN-MM1
	G3/4	Manual	5	Metal	0.48	LF84G-6GN-MM1
	G3/8	Manual	40	Metal	0.51	LF84G-3GN-MM3
	G1/2	Manual	40	Metal	0.50	LF84G-4GN-MM3
	G3/4	Manual	40	Metal	0.48	LF84G-6GN-MM3
	G3/8	Auto	40	Metal	0.51	LF84G-3GN-AM3
	G1/2	Auto	40	Metal	0.51	LF84G-4GN-AM3
	G3/4	Auto	40	Metal	0.49	LF84G-6GN-AM3

Option selector

LF84G-★★N-★M★

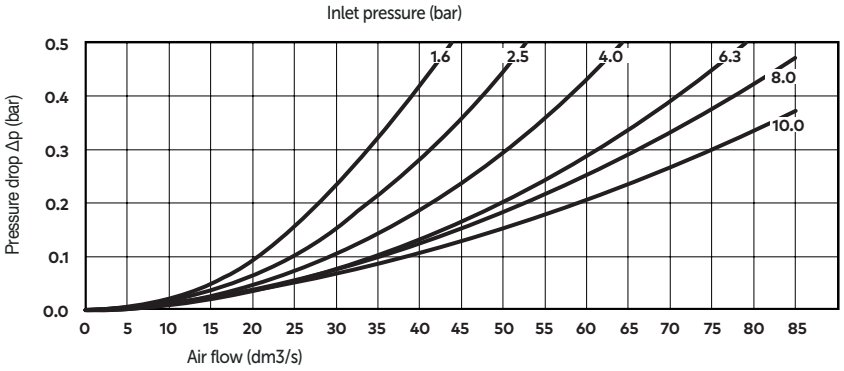
Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Thread form	**Substitute**
PTF	A
ISO G	G

Element	Substitute
5 µm	1
40 µm (standard)	3
Drain	**Substitute**
Manual	M
Auto drain	A
Open ended *1) (with male thread adaptor)	N

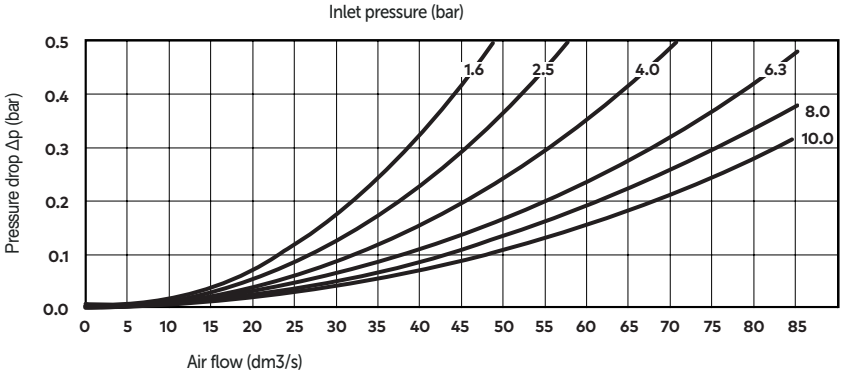
*1) Available on request

Flow characteristics

Element 40 µm
Port size: 1/2"

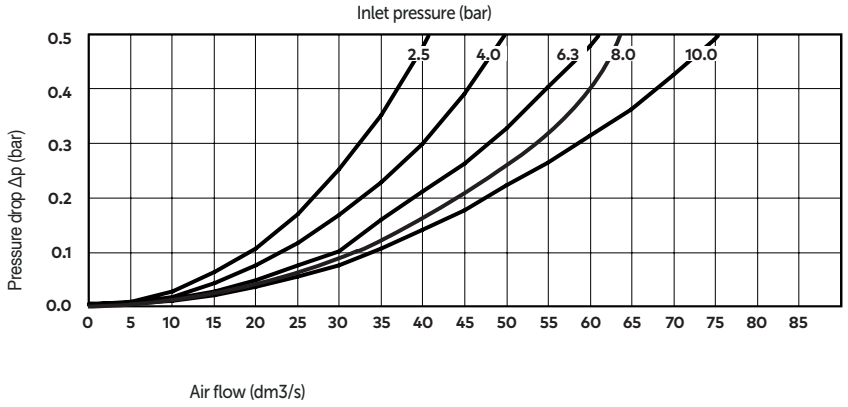


Element 5 µm
Port size: 1/2"

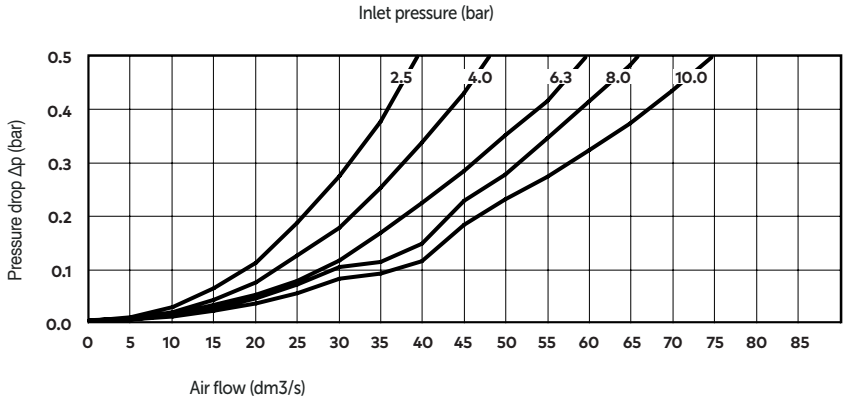


Flow characteristics

Element 40 µm
Port size:3/8”



Element 5 µm
Port size: 3/8”



Accessories

Wall mounting bracket

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840024-50KIT

Quikclamp®

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L840014-51KIT

Quikclamp®
with bracket assembled

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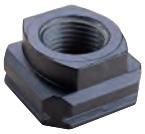
L840014-52KIT

Port Adaptors



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3/8 PTF	L840015-02KIT
1/2 PTF	L840015-03KIT
3/4 PTF	L840015-04KIT
G3/8	L840015-10KIT
G1/2	L840015-11KIT
G3/4	L840015-12KIT

Pressure sensing block
1/4 PTF

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L840016-50KIT

Pressure sensing block
G1/4

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L840016-51KIT

Full flow porting block, horizontal, 3/4 PTF

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L840028-50KIT

Full flow porting block, horizontal, G3/4

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L840028-53KIT

Full flow porting block, vertical, 3/4 PTF

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L840028-68KIT

Full flow porting block, vertical, G3/4

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L840028-69KIT

Maintenance/Service

Filter cartridge
5 micron

L840038-50KIT

Filter cartridge
40 micron

L840038-51KIT

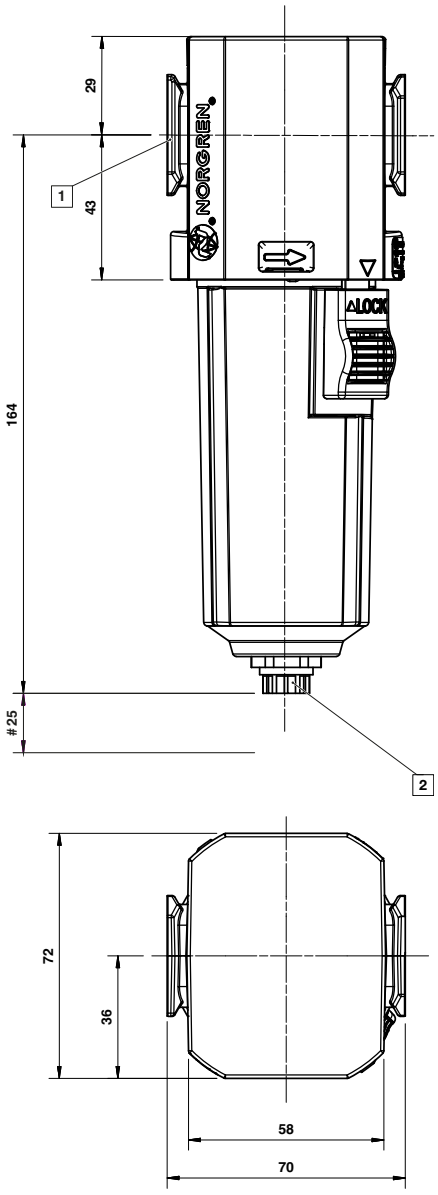
Auto drain kit with
metal Nut - Imperial

3000-70

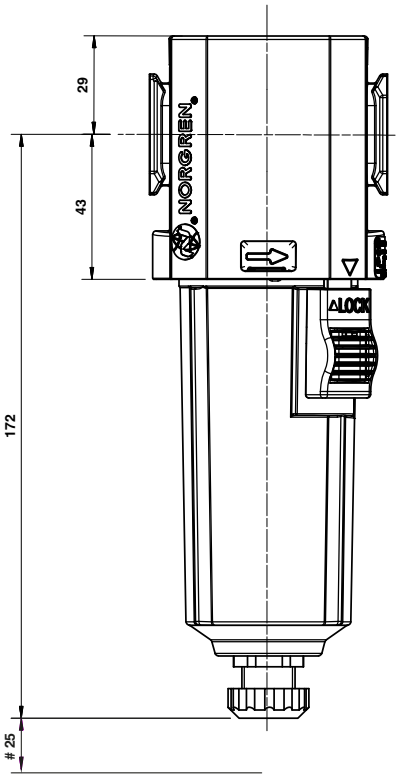
Dimensions

Dimensions in mm
Projection/First angle

Automatic Drain



Manual Drain

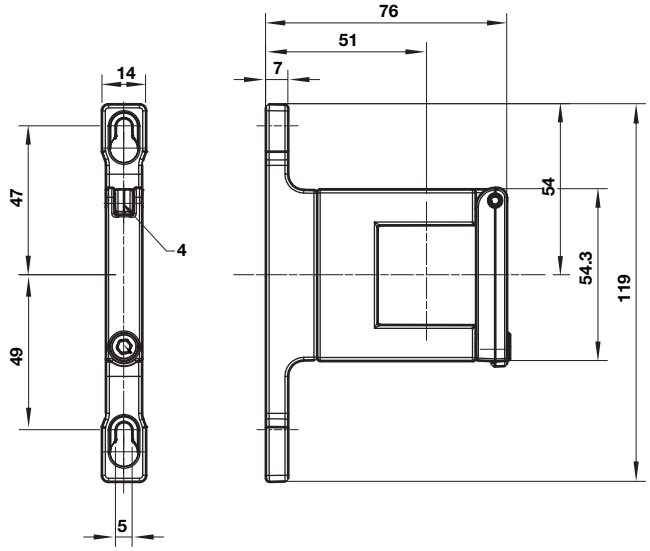


Minimum clearance for bowl removal
1 Main ports 3/8", 1/2" or 3/4" (ISO G/PTF)

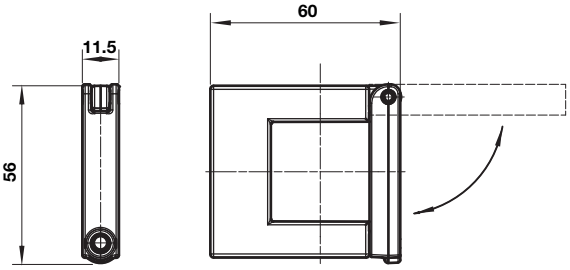
Accessories

Dimensions in mm
Projection/First angle

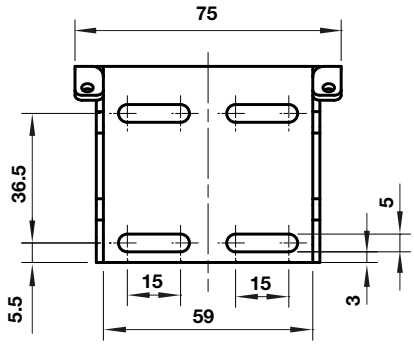
Quikclamp® with wall bracket

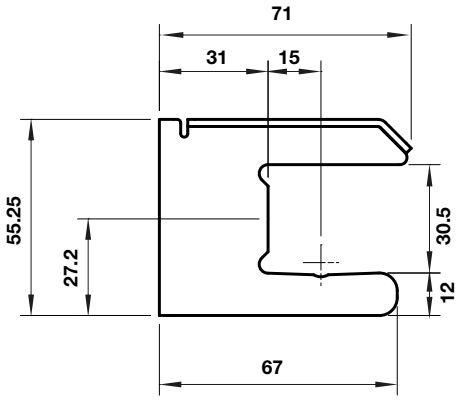


Quikclamp®

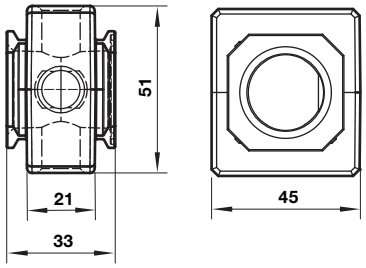


Mounting bracket

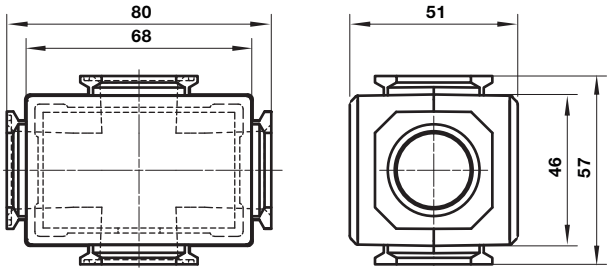




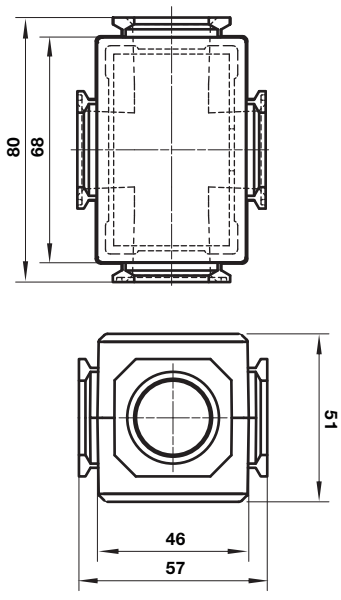
Pressure sensing block



Full flow porting block horizontal

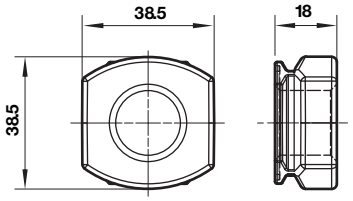


Full flow porting block vertical



Pipe adaptor

Dimensions in mm
Projection/First angle



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.