F82G – General purpose filter 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
- 5 or 40 micron particle and high efficiency water removal (> 95%)
- Double safety lock bowl
- Metal bowl with prismatic liquid level indicator lens
- Light weight polycarbonate bowl
- Air purity classes in accordance to ISO8573-1:2010: 7:8:4 (40µm) 6:8:4 (5µm)
- Ex DoC in accordance with 2014/34/EU/ATEX

Technical features

Medium:
Compressed air only
Maximum supply pressure:
Polycarbonate bowl:
10 bar (145 psi)
Metal bowl: 17 bar (246 psi)

Filter element:
5 µm & 40 µm

Port size:
G1/4, G3/8
1/4 PTF, 3/8 PTF

Flow:
23 dm^3/s (port size 1/4") and 27dm^3/s (port size 3/8") at inlet pressure 6.3bar (91psi) and a Δp 0,5 bar (7,25 psi) pressure drop.
Filter element 40µm

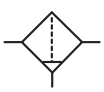
Drain:
Manual or automatic
Automatic drain operating conditions (float operated):
Bowl pressure required to close drain: > 0,35 bar (5 psi)
Bowl pressure required to open drain: ≤ 0,2 bar (2,9 psi)
Minimum air flow required to close drain: 1dm^3/s.

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).

Atex:
Filters F82 are in conformity with Atex 2014/34/EU
Ex II 2 GD
Ex h IIC T6 Gb
EX h IIIC T85°C Db

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
Filter element: sintered PP
Bowl 'o'- ring: Chloroprene
Elastomers: NBR

Technical data F82G—standard models

Symbol	Port Size	Drain	Filter element (µm)	Bowl	Weight (kg)	Model *1)
	G1/4	Auto	vv	Guarded polycarbonate	0,22	F82G-2GN-AP3
	G3/8	Auto	40	Guarded polycarbonate	0,22	F82G-3GN-AP3
	G1/4	Auto	40	Metal with level indicator	0,41	F82G-2GN-AD3
	G3/8	Auto	40	Metal with level indicator	0,41	F82G-3GN-AD3
	G1/4	Manual	40	Guarded polycarbonate	0,20	F82G-2GN-QP3
	G3/8	Manual	40	Guarded polycarbonate	0,20	F82G-3GN-QP3
	G1/4	Manual	40	Metal with level indicator	0,40	F82G-2GN-QD3
	G3/8	Manual	40	Metal with level indicator	0,40	F82G-3GN-QD3

Option selector

F82G-★★★ – ★★★

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

Thread form	Substitute
PTF	A
ISO G (standard)	G

Differential Pressure Indicator	Substitute
With differential pressure indicator	D
Without differential pressure indicator	N

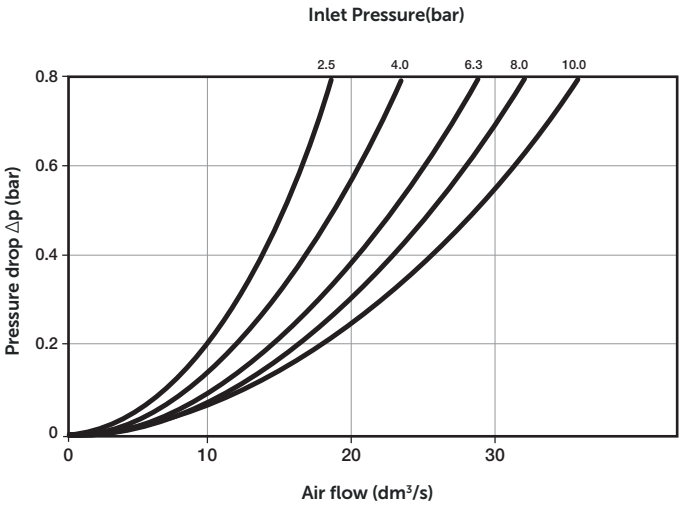
Element	Substitute
5 µm	1
40µm (standard)	3

Bowl	Substitute
Transparent with guard (standard)	P
Metal with liquid indicator	D

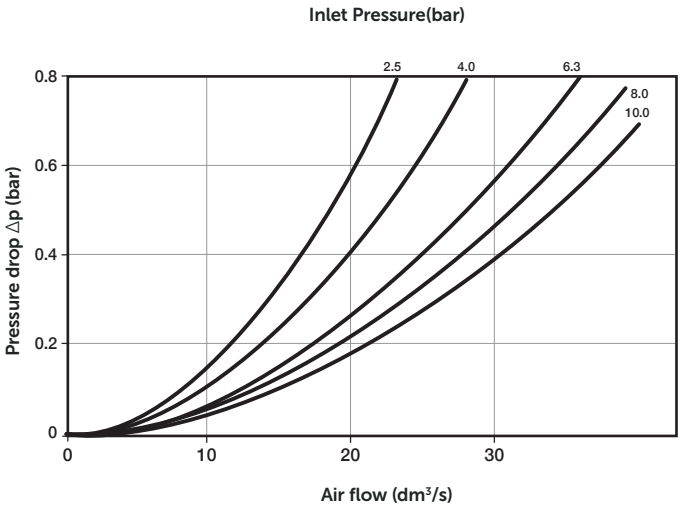
Drain	Substitute
Manual (standard)	Q
Auto drain (standard)	A

Flow characteristics

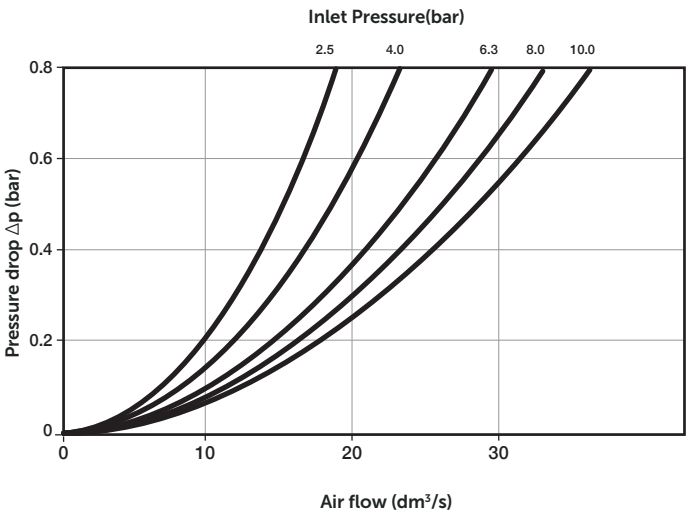
Element 40 µm
Port size: 1/4"



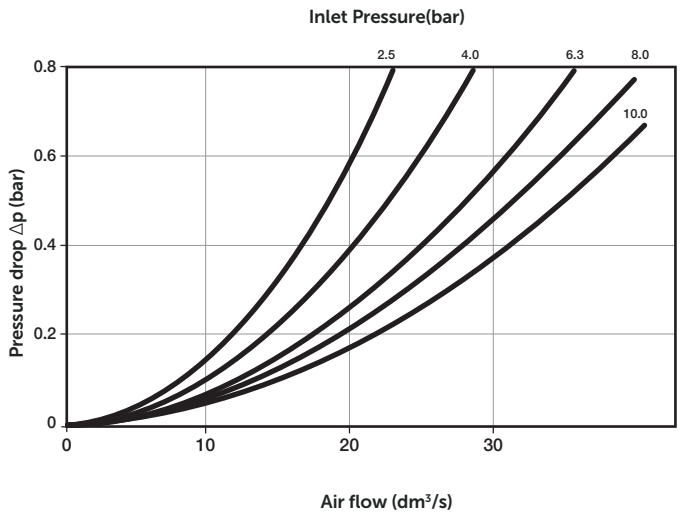
Element 40 µm
Port size: 3/8"



Element 40 µm
Port size: 1/4"



Element 40 µm
Port size: 3/8"



Accessories

Wall mounting bracket

Page 5

820024-50KIT

Quikclamp

Page 5

820014-51KIT

Quikclamp
with bracket assembled

Page 5

820014-52KIT

Pressure sensing block
1/4 PTF

Page 5

820016-50KIT

Pressure sensing block
G1/4

Page 5

820016-51KIT

Full flow porting block
3/8" PTF

Page 5

820028-50KIT

Full flow porting block
G3/8

Page 5

820028-53KIT

Pressure switch interface block
(18D pressure switch)

Page 6

0523109000000000

Pneumatic pressure switch
18D (0,5 ... 8 bar) *1)

Page 6

0881300

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

Page 6

0860810

*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

Port Adaptors
1/4 PTF

Page 6

820015-02KIT

Port Adaptors
3/8 PTF

Page 6

820015-03KIT

Port Adaptors
G1/4

Page 6

820015-08KIT

Port Adaptors
G3/8

Page 6

820015-09KIT

Maintenance/Service

Filter cartridge
5 micron

820038-50KIT

Filter cartridge
40 micron

820038-51KIT

Auto drain kit with
metal Nut - Imperial

6000-61KIT

Auto drain kit with
metal Nut - Metric

6000-60KIT

Spare parts

Filter Bowl (Guarded Poly bowl with auto drain 6 mm PIF)

820025-51KIT

Filter Bowl (Guarded Poly bowl with manual drain)

820025-50KIT

Filter Bowl (Metal with S/Glass & auto drain, 6 mm PIF)

820003-51KIT

Filter Bowl (Metal with S/Glass & manual drain)

820003-50KIT

Filter Bowl (Guarded Poly bowl with auto drain, 1/4 PIF)

820025-53KIT

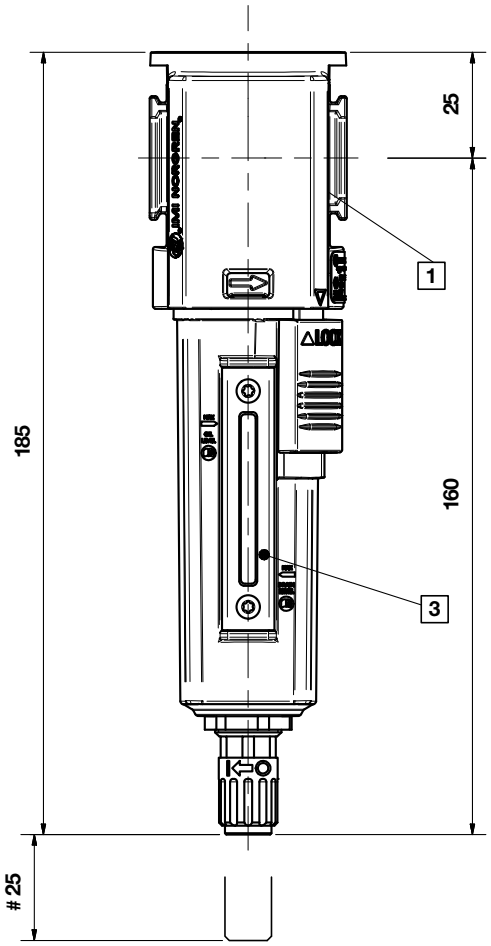
Filter Bowl (Metal with S/Glass & auto drain, 1/4 PIF)

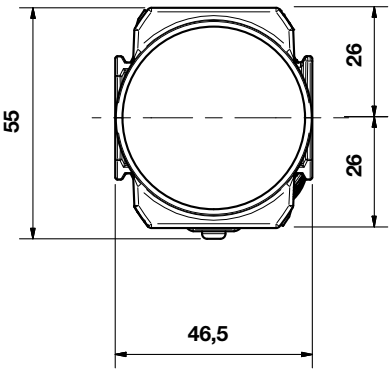
820003-56KIT

Dimensions

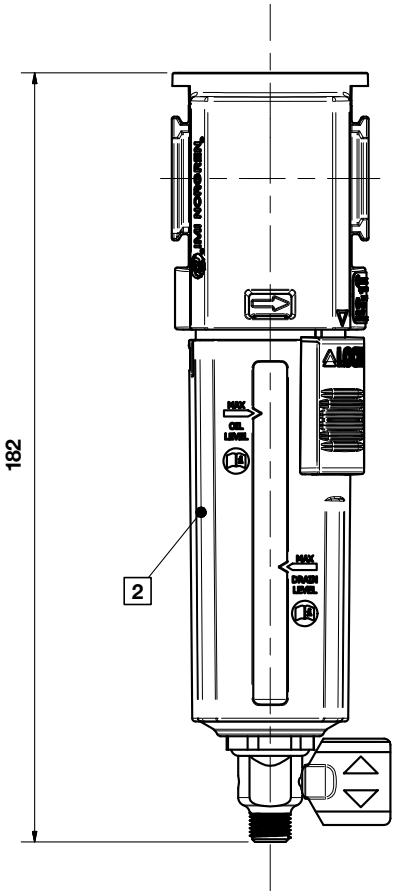
Dimensions in mm
Projection/First angle

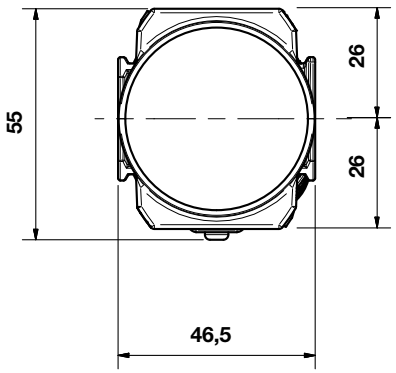
Automatic Drain





1/4 Turn Manual Drain



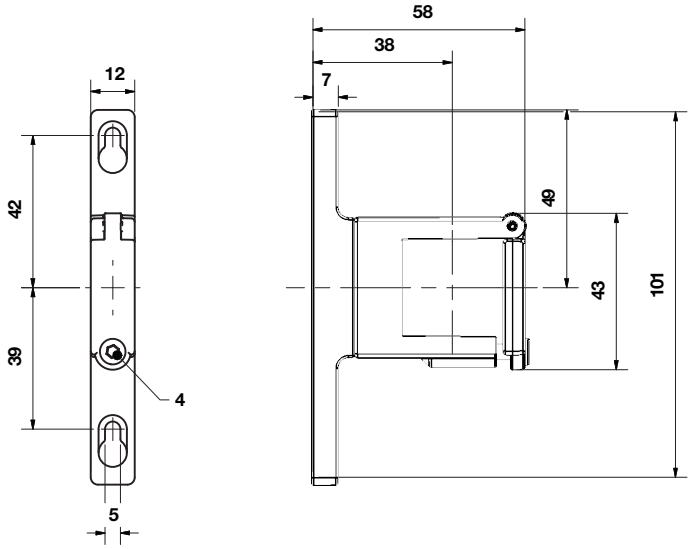


Minimum clearance required to remove bowl
1 Main ports 1/4", 3/8" (ISO G/PTF)
2 Transparent bowl with guard
3 Metal bowl with liquid level indicator lens

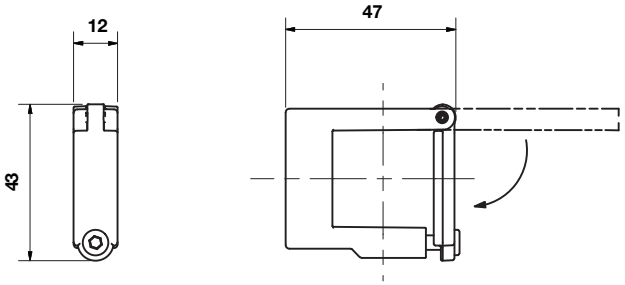
Accessories

Dimensions in mm
Projection/First angle

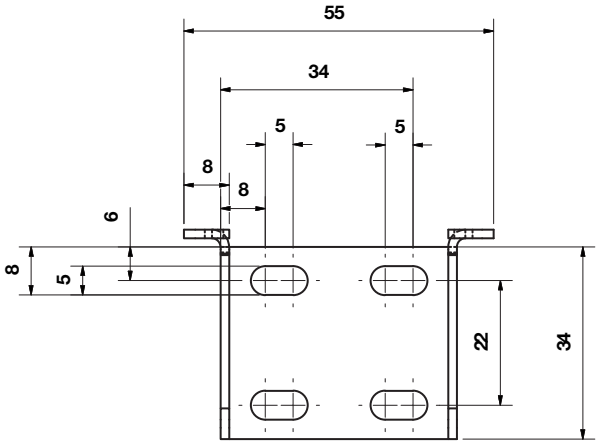
Quikclamp with wall bracket

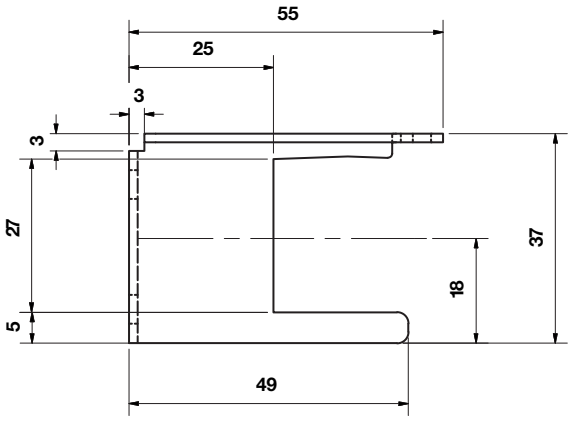


Quikclamp

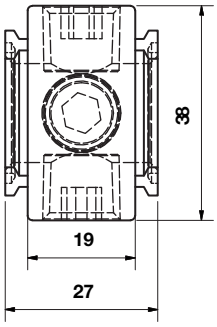


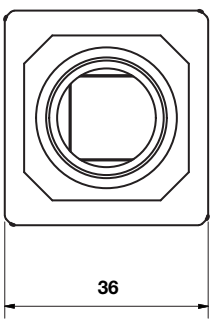
Mounting bracket



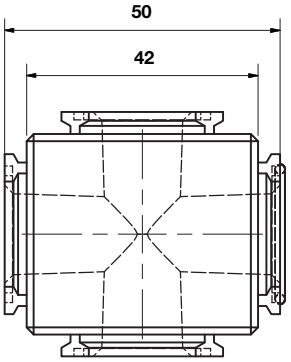


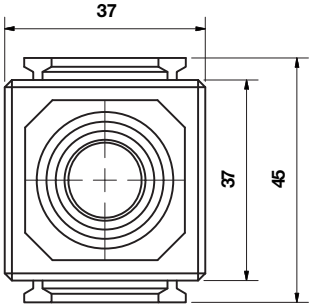
Pressure sensing block



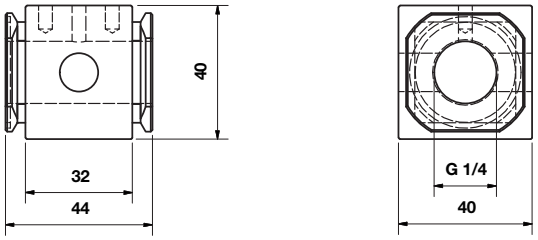


Full flow porting block



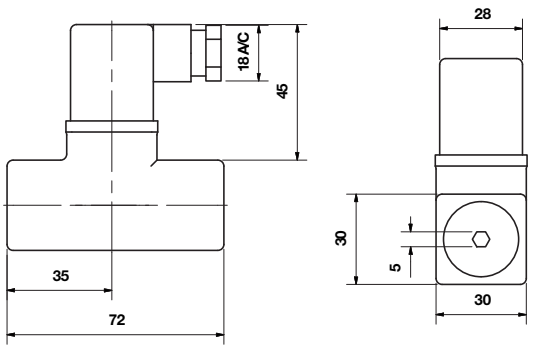


Porting block for 18D pressure switch

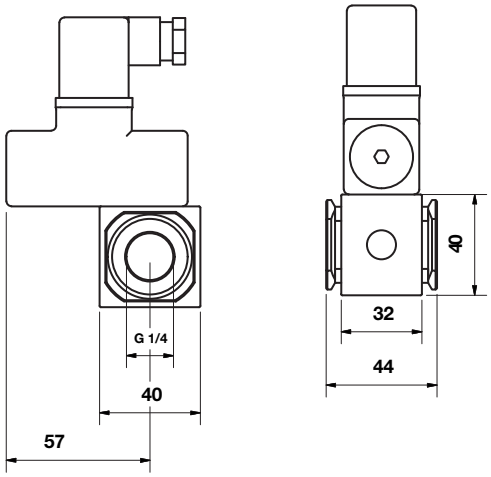


18D Pressure switch

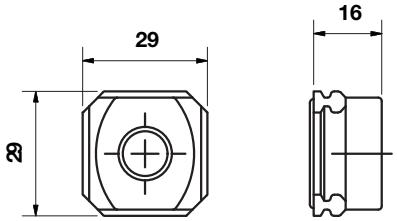
Dimensions in mm
Projection/First angle



18D Porting block and 18D assembled

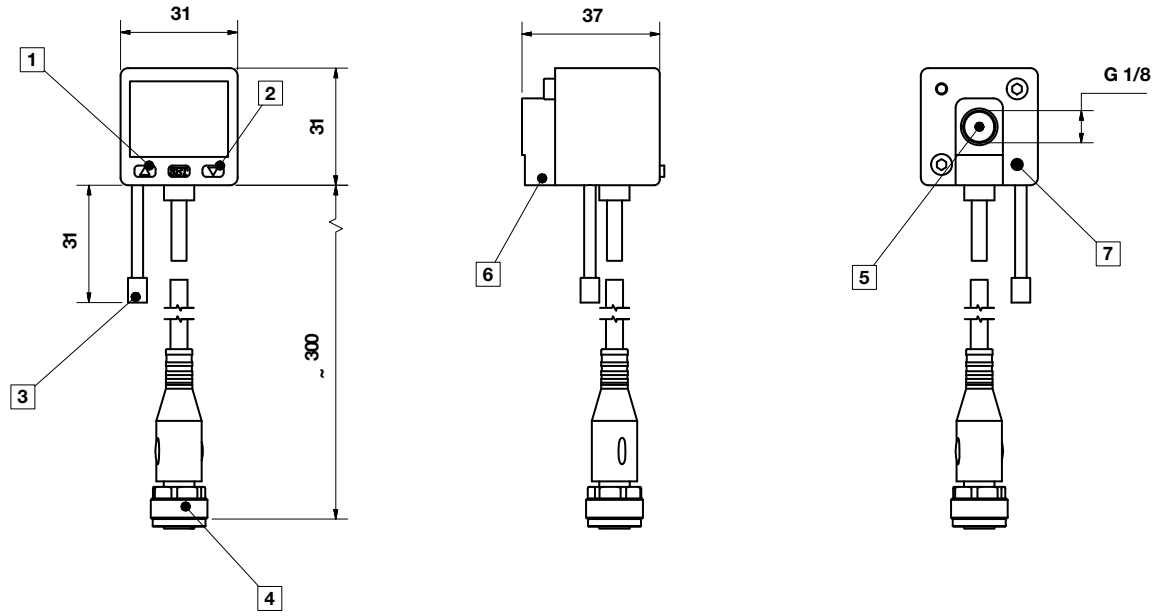


Pipe adaptor



51D Pressure switch - digital

Dimensions in mm
Projectio n/First angle



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.