

BL84 -Filter/regulator - Lubricator Combination Units Excelon® Plus Modular System

- Port size: 3/8" ... 3/4" (ISO G/PTF)
- Unique Quikclamp connection system offers full modularity
- 40 micron particle and high efficiency water removal (> 98%)
- Double safety lock on bowl
- Shut off valve, Regulator & Filter Regulator with tamper resistance feature.
- Light weight polycarbonate bowl
- Metal bowl with prismatic liquid level indicator lens
- High Corrosion resistance: Body and Metal bowl with electrophoretic paint finish
- Easy to read flush mounted integrated pressure gauge as standard , integrated electronic pressure sensor as option.
- All round (360°) visibility of sightdome for ease of drip rate setting



Technical features

Medium:

Compressed air only

Maximum supply pressure:

Polycarbonate bowl: 10 bar (145 psi)

Metal bowl: 20 bar (290 psi)

Outlet pressure ranges:
0,3 ...10 bar (4 ... 145 psi),

Filter element:

40 µm

Port size:

G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

Gauge:

Integrated as standard*)

Diaphragm Type:
Relieving

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:

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).

Materials:

Body: Die cast aluminium

Body covers: ABS

Bonnet: Acetal

Valve: PP with Geolast seals

Transparent Bowl: Polycarbonate
with Polypropylene Guard.

Metal Bowl: Die cast Aluminium
with PA liquid level indicator lens

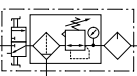
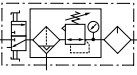
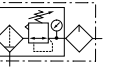
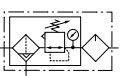
Filter element: sintered PP

Bowl 'o'- ring: Chloroprene

Elastomers: NBR

*) Technical features IEPS (Integrated Electronic Pressure Sensor) see data sheet 8.200.300 B84G or visit <https://www.norgren.com/en/products/b84g-6gk-ap3-rmq>

Technical data BL84 - standard models with integrated analogue gauge

Symbol	Port size	Shut off valve	Drain	Lubricator type	Weight (kg)	Model *1)
	G3/8	With	Manual	Microfog	1,65	BL84-321G
	G1/2	With	Manual	Microfog	1,65	BL84-421G
	G3/4	With	Manual	Microfog	1,65	BL84-621G
	G3/8	With	Auto	Microfog	1,65	BL84-301G
	G1/2	With	Auto	Microfog	1,65	BL84-401G
	G3/4	With	Auto	Microfog	1,65	BL84-601G
	G3/8	Without	Manual	Microfog	1,15	BL84-325G
	G1/2	Without	Manual	Microfog	1,15	BL84-425G
	G3/4	Without	Manual	Microfog	1,15	BL84-625G
	G3/8	Without	Auto	Microfog	1,15	BL84-305G
	G1/2	Without	Auto	Microfog	1,15	BL84-405G
	G3/4	Without	Auto	Microfog	1,15	BL84-605G

*1) All models shown here are supplied with brackets and integrated gauge applicable for flow direction left to right.

With flow direction right to left please use the online configurator www.norgren.com/air-preparation-configurator or contact IMI Norgren

Option selector *1)

BL84-★★★★★

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Units	Substitute
Filter/Regulator w. auto drain, Micro fog lubricator, Polycarbonate bowls	0
Filter/Regulator w. auto drain, Oil fog lubricator, Polycarbonate bowls	1
Filter/Regulator w. manual drain, Micro fog lubricator, Polycarbonate bowls	2
Filter/Regulator w. manual drain, Oil fog lubricator, Polycarbonate bowls	3
Filter/Regulator w. auto drain, Micro fog lubricator, Metal bowls	5
Filter/Regulator w. auto drain, Oil fog lubricator, Metal bowls	6
Filter/Regulator w. manual drain, Micro fog lubricator, Metal bowls	7
Filter/Regulator w. manual drain, Oil fog lubricator, Metal bowls	8

Gauge	Substitute
IEPS (integrated electronic pressure sensor)	E
Integrated analogue gauge *2)	
Thread form	Substitute
PTF	A
ISO G parallel (standard)	G
Accessories	Substitute
Shut-off valve & gauge & brackets	1
Gauge & bracket	5

*1) All models shown here are applicable for flow direction left to right.

With flow direction right to left please use the online configurator www.norgren.com/air-preparation-configurator or contact Norgren

*2) For combinations with an integrated analogue gauge leave the 9th digit blank

In addition to the standard box set units shown on this data sheet, further combinations can be configured using our online Air Preparation configurator:

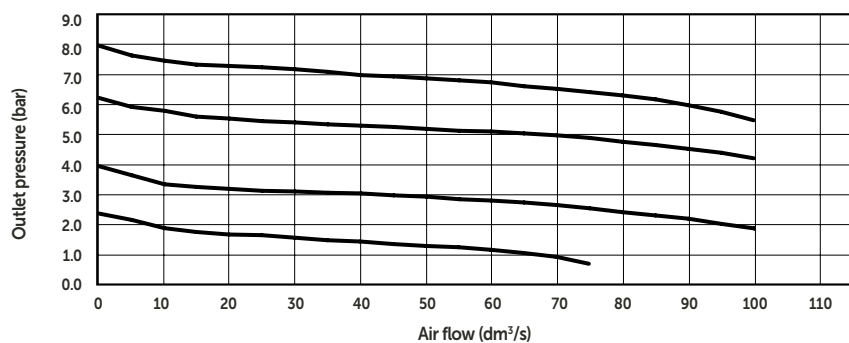
www.norgren.com/air-preparation-configurator



Flow characteristics

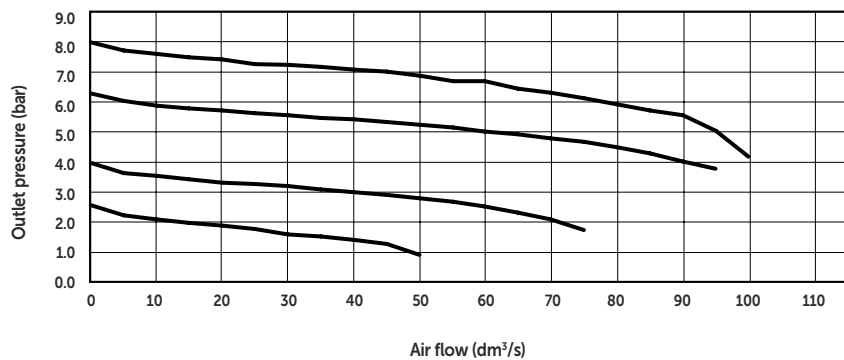
Inlet pressure: 10 bar (145 psi)

Port size: 1/2", 40 µm element



Inlet pressure: 10 bar (145 psi)

Port size: 3/8", 40 µm element



Quikclamp



Page 10

840014-51KIT

Quikclamp with bracket assembled



Page 10

840014-52KIT

Hybrid Quikclamp *1



Page 10

840014-61

Hybrid Quikclamp with bracket assembled *1



Page 10

840014-62

*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

Port Adaptors



Page 11

1/4 PTF	840015-01KIT
3/8 PTF	840015-02KIT
1/2 PTF	840015-03KIT
3/4 PTF	840015-04KIT
G1/4	840015-09KIT
G3/8	840015-10KIT
G1/2	840015-11KIT
G3/4	840015-12KIT

Pressure sensing block 1/4" PTF



Page 10

840016-50KIT

Pressure sensing block G1/4



Page 10

840016-51KIT

Full flow porting block 3/4" PTF



Page 11

840028-50KIT

Full flow porting block G3/4



Page 11

840028-53KIT

Full flow porting block 3/4" PTF



Page 11

840028-68KIT

Full flow porting block G3/4



Page 11

840028-69KIT

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



Page 11

0337717000000000

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



Page 11

0881300

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



Page 12

0860810

Electronic Pressure Sensor – stand alone version *3



Q84G

*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 stand alone electronic pressure sensor module
see <http://s.norgren.com/digital-gauge-iodd> for data-sheet 8.900.905.

IO-Link cables

Connection cable M8x1 for integrated digital pressure switch



Description	Cable length (m)	Model
M8 female to M12 male	0,6	NC-084FS-124MS-A
	1,0	NC-084FS-124MS-1
	2,0	NC-084FS-124MS-2
	5,0	NC-084FS-124MS-5
M8 female to free end	5,0	NC-084FS-00000-5

Padlock

Padlock  840055-01KIT	Lockout device  840055-02KIT
---	--

Silencer

Porous plastic silencer *3) G1/4  M/S2	Plastic silencer *3) G1/4  001460000000000	Sinter bronze silencer *3) 1/4 PTF  MS002A	Sinter bronze silencer *3) G1/4  T40C2800
--	--	--	---

*3) Max. pressure of silencers listed in this data sheet : 10bar.
For pressure higher than 10bar please contact Norgren

Maintenance/Service

Filter cartridge 40 micron  840038-51KIT	Auto drain kit with metal Nut - Imperial  6000-61KIT	Auto drain kit with metal Nut - Metric  6000-60KIT	R84 / B84 Elastomer Kit  FRLB84-KIT
---	---	---	--

Lubricator sight dome kit	
	
Micro fog (red)	840055-50KIT
Oil fog (green)	840055-51KIT

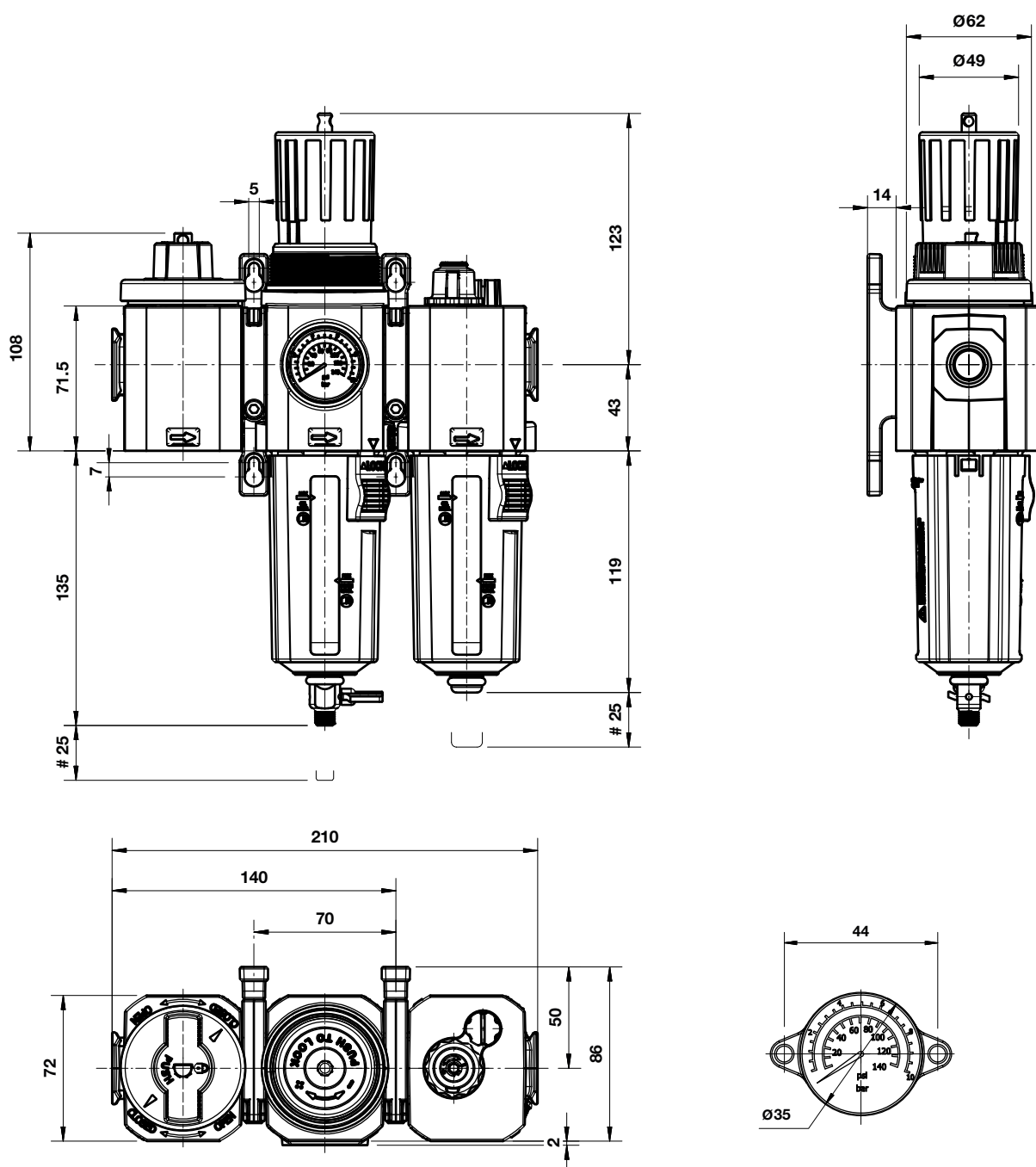
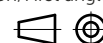
Spare parts

Filter Bowl (Guarded Poly bowl with auto drain 6 mm PIF)  840025-51KIT	Filter Bowl (Guarded Poly bowl with manual drain)  840025-50KIT	Filter Bowl (Metal with S/Glass & auto drain, 6 mm PIF)  840003-51KIT	Filter Bowl (Metal with S/Glass & manual drain)  840003-50KIT
Filter Bowl (Guarded Poly bowl with auto drain, 1/4 PIF)  840025-53KIT	Filter Bowl (Metal with S/Glass & auto drain, 1/4 PIF)  840003-56KIT		

Dimensions

Shut-off valve, Filter/regulator and Lubricator with integrated analogue gauge

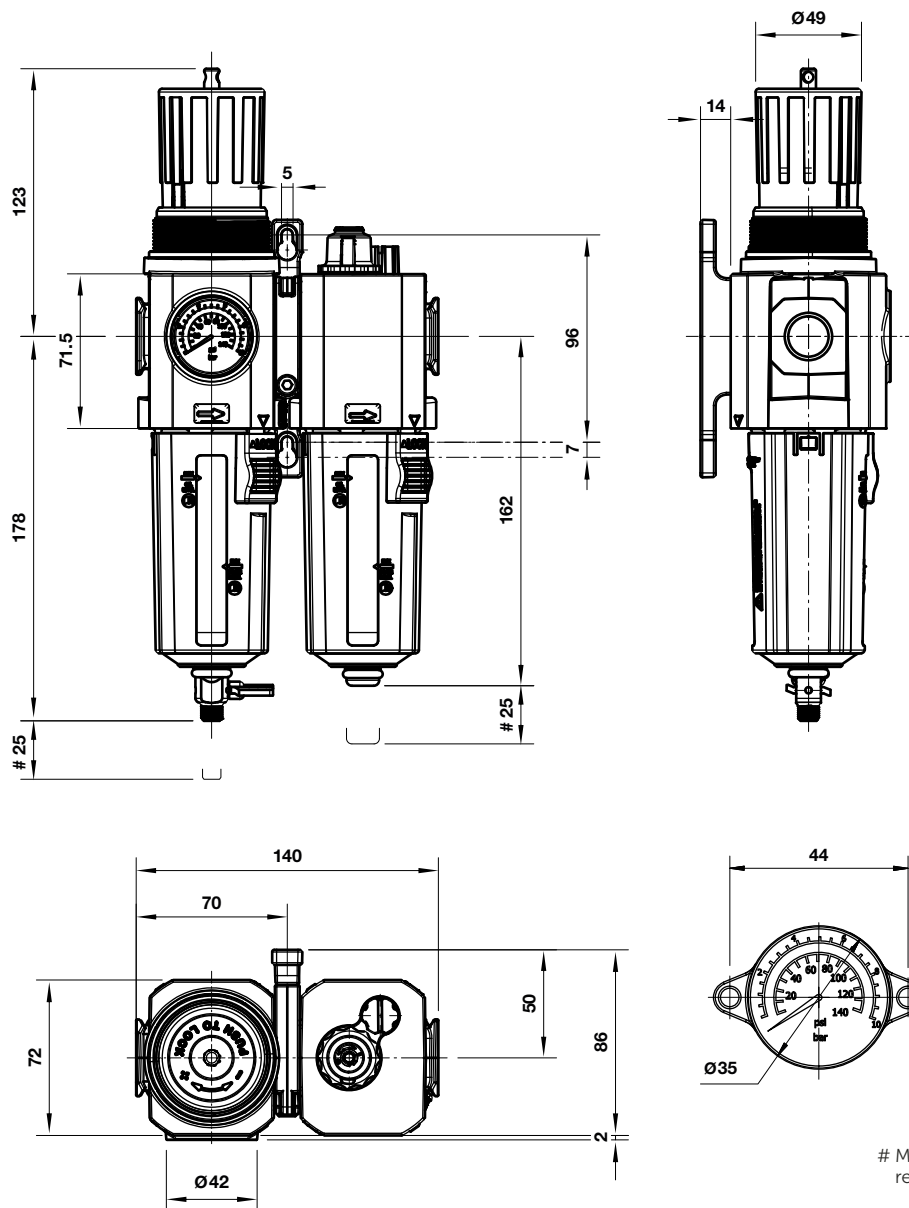
Dimensions in mm
Projection/First angle



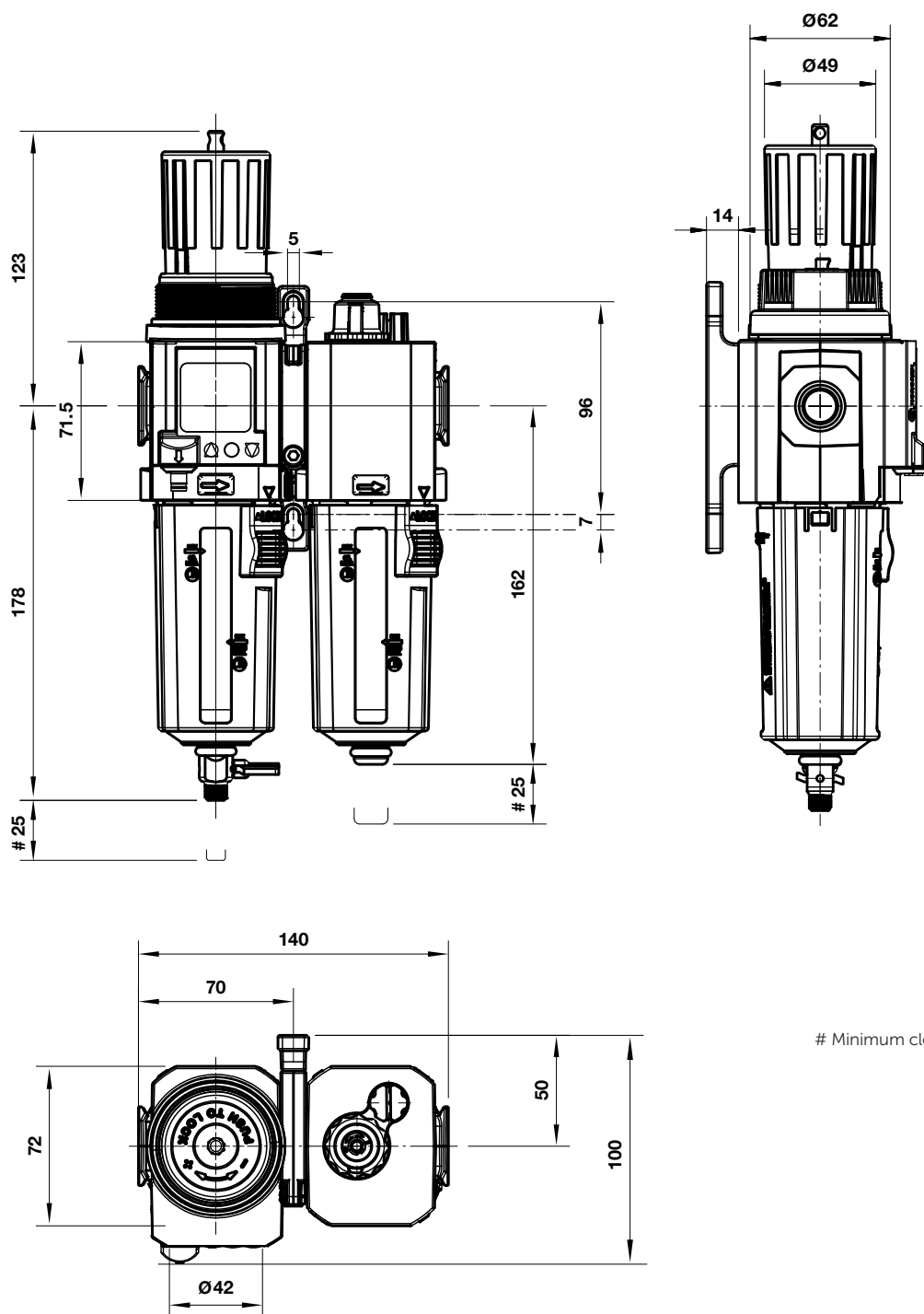
Minimum clearance for bowl removal

Dimensions Filter/regulator and Lubricator with integrated analogue gauge

Dimensions in mm
Projection/First angle



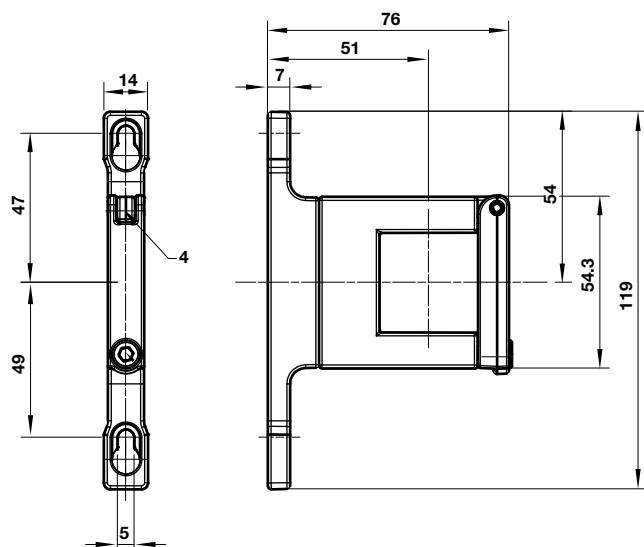
Minimum clearance for bowl removal



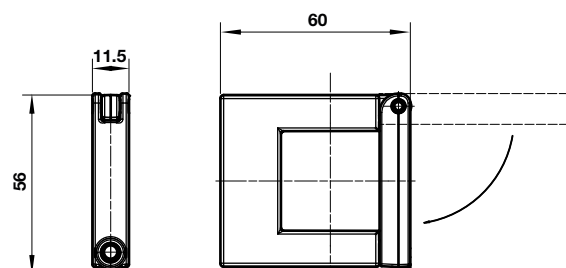
Minimum clearance for bowl removal

Accessories

Quikclamp with wall bracket



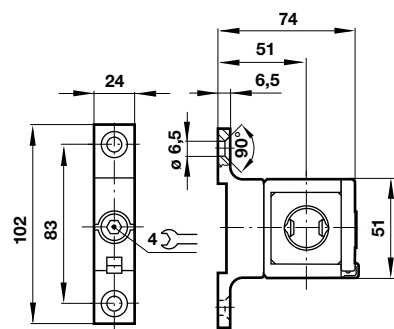
Quikclamp



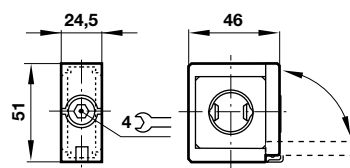
Dimensions in mm
Projection/First angle



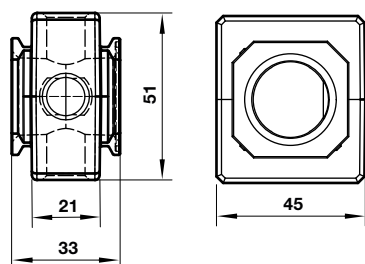
Hybrid-Quikclamp with wall bracket



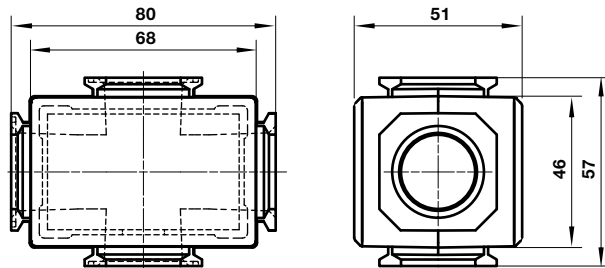
Hybrid-Quikclamp



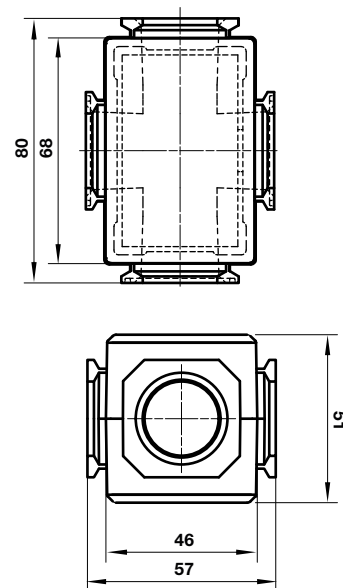
Pressure sensing block



Full flow porting block horizontal



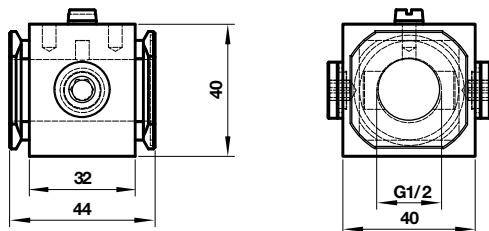
Full flow porting block vertical



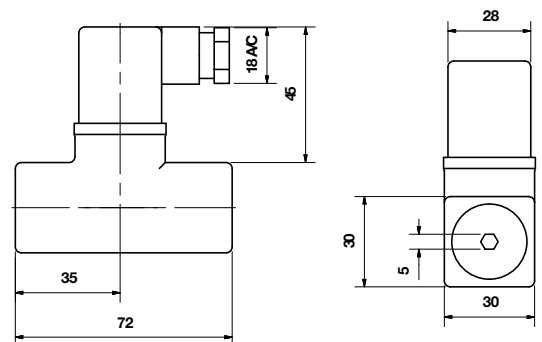
Dimensions in mm
Projection/First angle



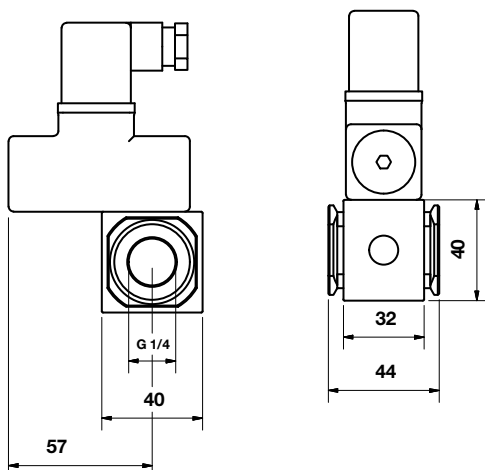
Porting block for 18D pressure switch



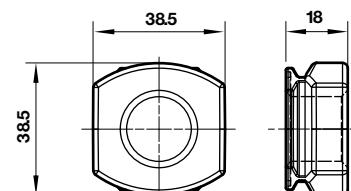
18D Pressure switch



18D Porting block and 18D assembled

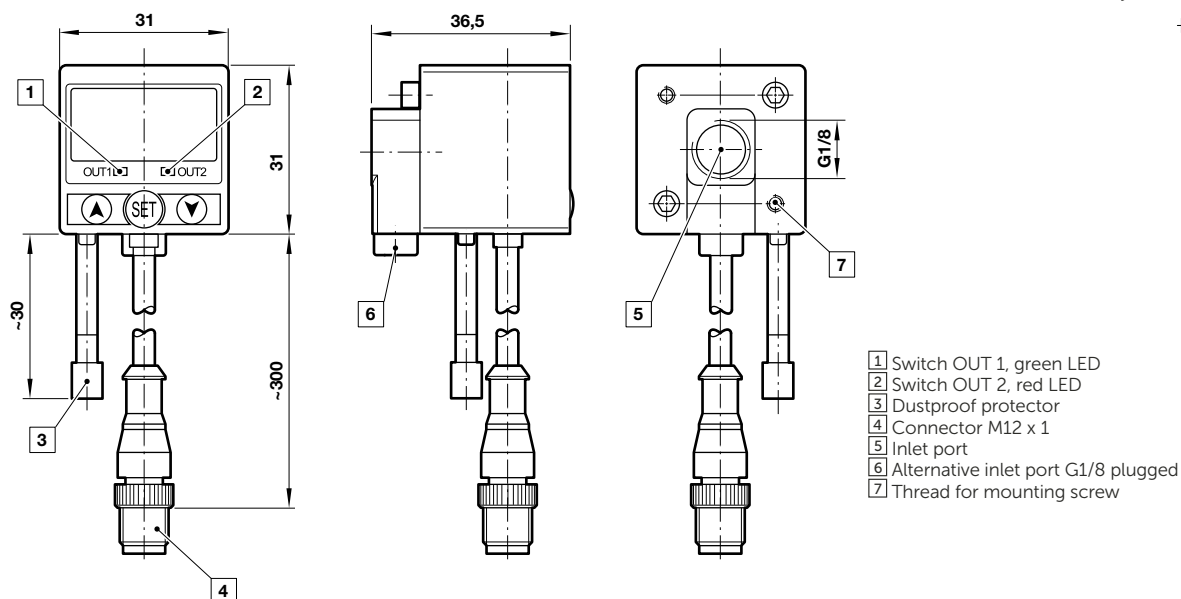


Pipe adaptor



51D Pressure switch - digital

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.