

HBL84 - 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.
- > Metal bowl with prismatic liquid level indicator
- > Salt Spray compliant to ISO 9227
- > ABS cover with High impact properties
- > Easy to read flush mounted integrated pressure gauge as standard
- > All round (360°) visibility of sightdome for ease of drip rate setting



Technical features

Medium:

Compressed air only

Maximum supply pressure:

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:

-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 (Magnum 3904)

Bonnet: Acetal

Metal Bowl: Die cast Aluminium

with PA liquid level indicator lens

Filter element:

Sintered Polypropylene

Valve: Brass and

Low temperature Nitrile

Diaphragm: Low temperature

Silicone, polyester reinforced

Lower spring rest and

diaphragm retainer:

Aluminium

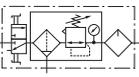
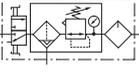
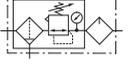
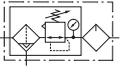
Bowl O-ring:

Low temperature Nitrile

Elastomers:

Low temperature Nitrile

Technical data HBL84 - standard models

Symbol	Port size	Shut off valve	Drain	Lubricator type	Weight (kg)	Model *1)
	G3/8	With	Manual	Microfog	1,65	HBL84-371G
	G1/2	With	Manual	Microfog	1,65	HBL84-471G
	G3/4	With	Manual	Microfog	1,65	HBL84-671G
	G3/8	With	Auto	Microfog	1,65	HBL84-351G
	G1/2	With	Auto	Microfog	1,65	HBL84-451G
	G3/4	With	Auto	Microfog	1,65	HBL84-651G
	G3/8	Without	Manual	Microfog	1,15	HBL84-375G
	G1/2	Without	Manual	Microfog	1,15	HBL84-475G
	G3/4	Without	Manual	Microfog	1,15	HBL84-675G
	G3/8	Without	Auto	Microfog	1,15	HBL84-355G
	G1/2	Without	Auto	Microfog	1,15	HBL84-455G
	G3/4	Without	Auto	Microfog	1,15	HBL84-655G

*1) All models shown here are supplied with 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 Norgren

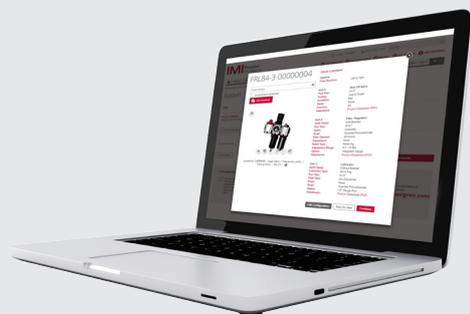
Option selector *1)
HBL84-★★★★

Port size	Substitute	Thread form	Substitute
3/8"	3	PTF	A
1/2"	4	ISO G parallel (standard)	G
3/4"	6	Accessories	Substitute
Units	Substitute	Shutt-off valve & gauge & brackets	1
Filter/Regulator w. auto drain, Micro fog lubricator, Metal bowls	5	Gauge & bracket	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		

*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

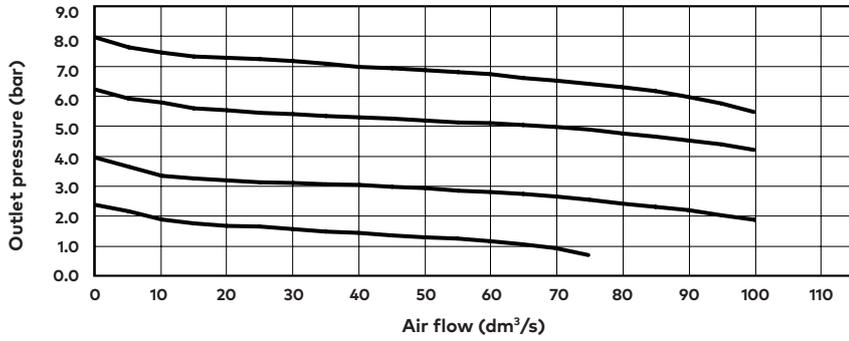
In addition to the standard box set units shown on this data sheet, further combinations can be configured using our online Air Preparation configurator:

www.norgren.com/air-preparation-configurator

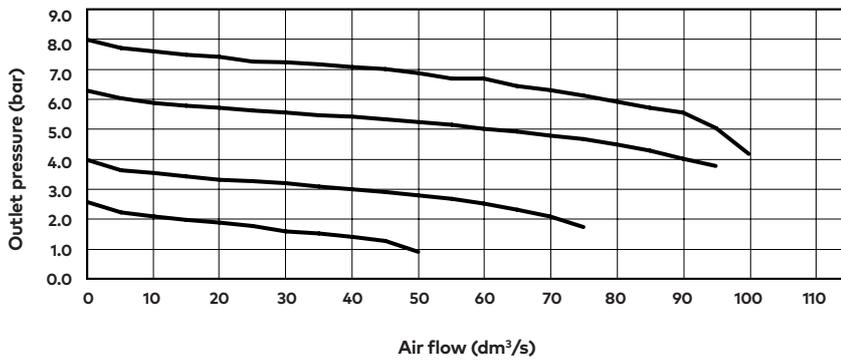


Flow characteristics

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



Accessories
Wall mounting bracket

Page 6

H840024-50KIT

Quikclamp®

Page 6

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
3/4" PTF**

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H840028-50KIT

**Full flow porting block
G3/4**

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H840028-53KIT

**Full flow porting block
3/4" PTF**

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H840028-68KIT

**Full flow porting block
G3/4**

Page 6

H840028-69KIT

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

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0337717000000000

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

Page 8

0881300

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

Page 8

0860810

*2) -20 ... +60°C (-4 ... +140°F)

*4) -10°... +85°C (-14° ...+185°F)

Padlock

Padlock



840055-01KIT

Lockout device



840055-02KIT

Silencer

Porous plastic silencer *3)
G1/4



M/S2

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



3000-70

HR84 / HB84
Elastomer Kit



HFRLB84-KIT

Lubricator sight dome kit

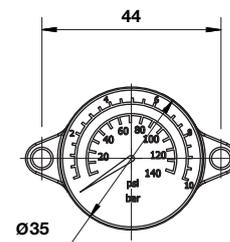
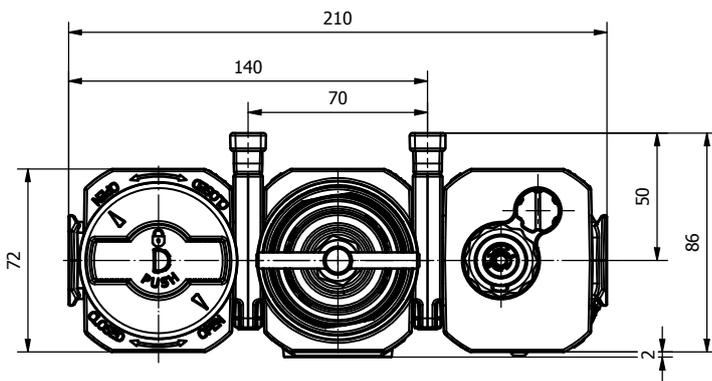
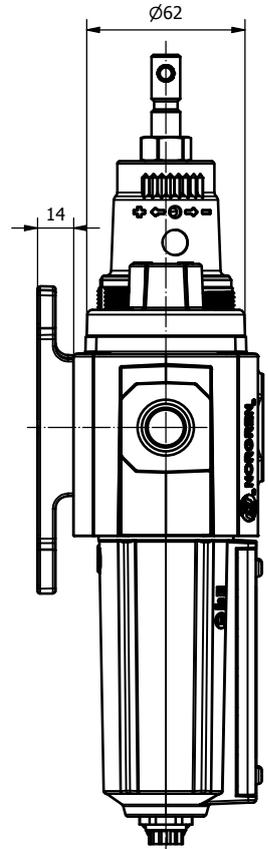
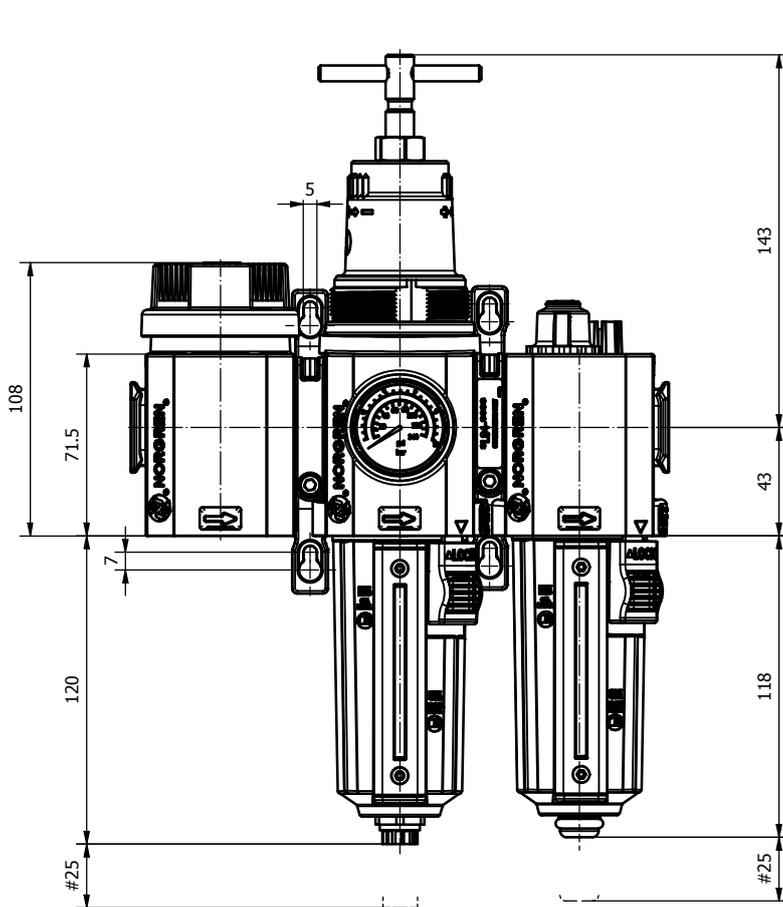


Micro fog (red) 840055-50KIT

Oil fog (green) 840055-51KIT

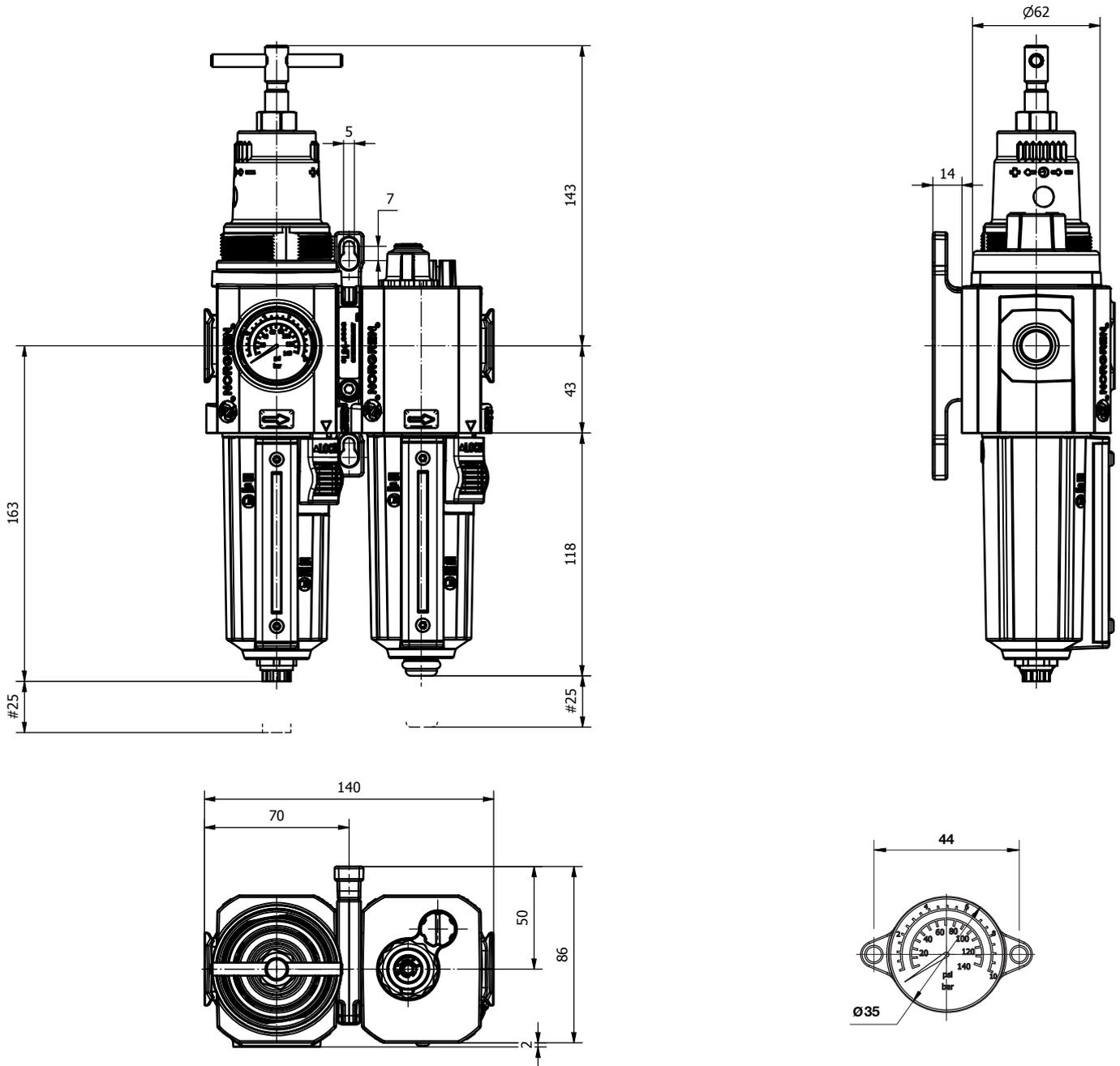
Dimensions
Shut-off valve, Filter/Regulator and Lubricator

Dimensions in mm
 Projection/First angle

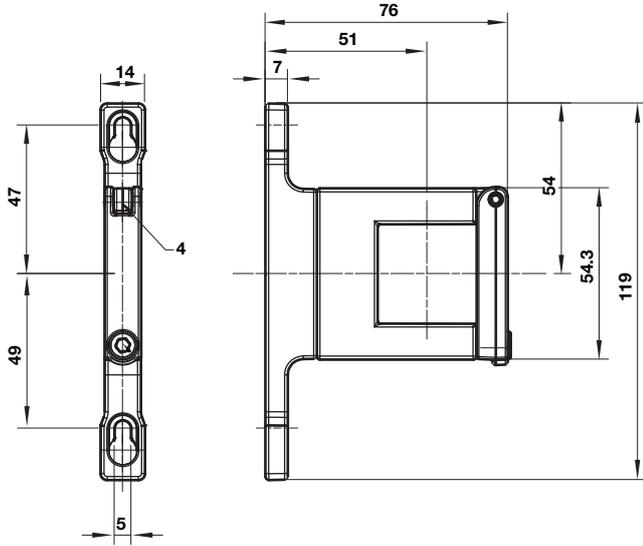
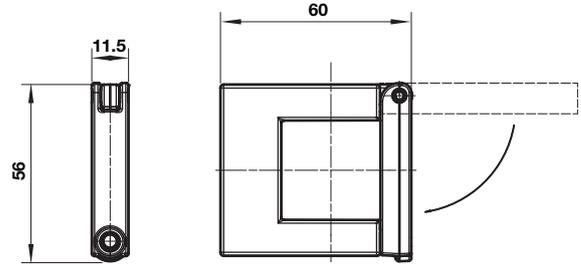


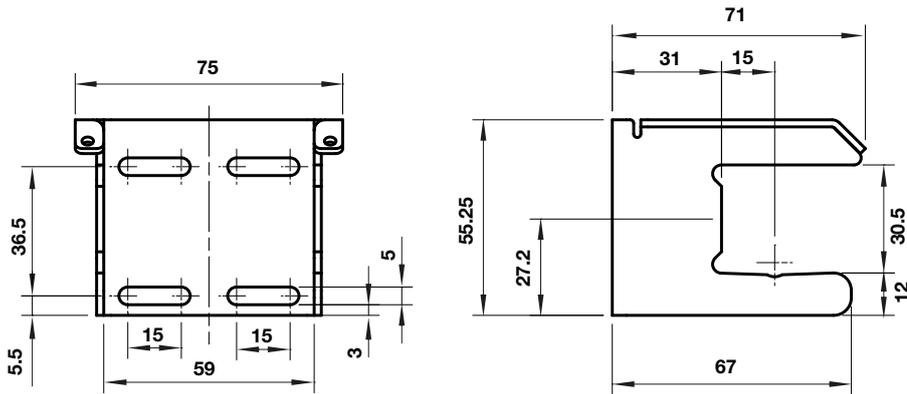
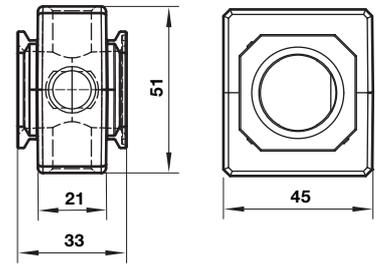
Minimum clearance for bowl removal

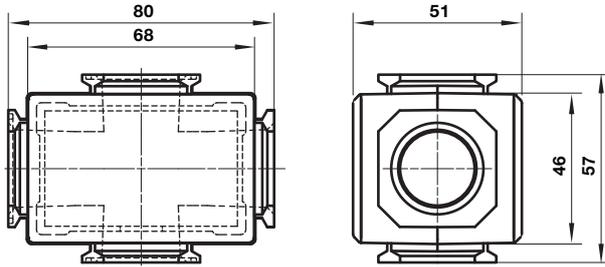
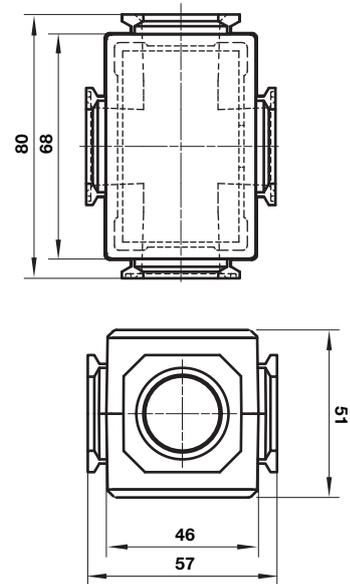
Dimensions
Filter/Regulator and Lubricator

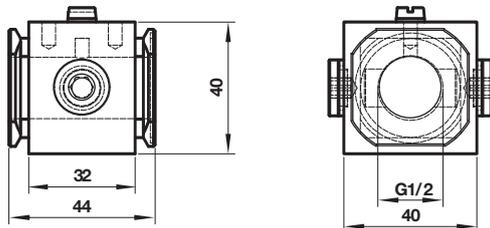
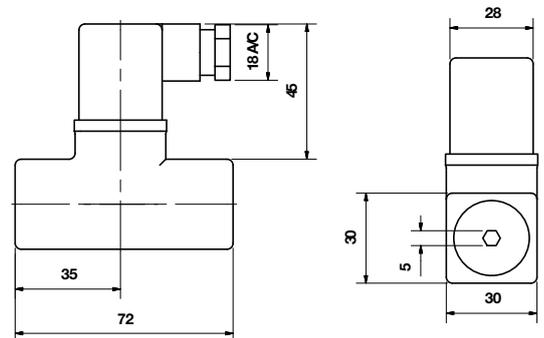
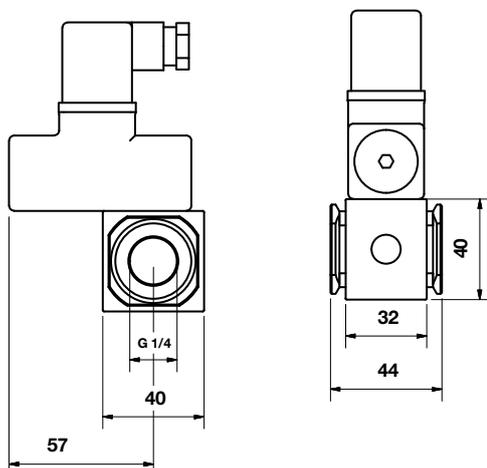
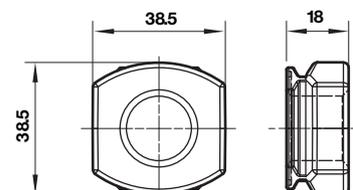
 Dimensions in mm
 Projection/First angle


Minimum clearance for bowl removal

Accessories
Quikclamp® with wall bracket

Quikclamp®

 Dimensions in mm
 Projection/First angle

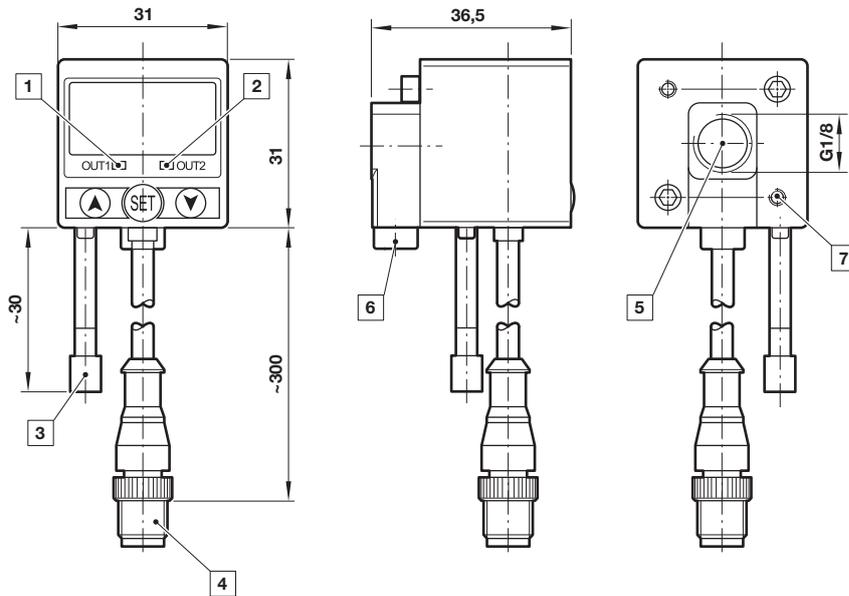
Mounting bracket

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



- 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.