

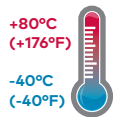
HR84G - Pressure regulator

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
- > Salt Spray compliant to ISO 9227
- > ABS cover with High impact properties



Technical features pressure regulator

Medium:

Compressed air only

Maximum supply pressure:

20 bar (290 psi)

Outlet pressure ranges:

0.3 ...10 bar (4 ... 145 psi),
0.3 ... 4 bar (4 ... 58 psi) optional,
0.7...17bar (10...247psi) optional

Gauge:

Gauge port as standard
(Rc 1/8 or 1/8 PTF)

Integrated gauge as option

Port size:

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

Diaphragm Type:

Relieving & Non-Relieving

Flow:

116 dm³/s at port size: 1/2",
Inlet pressure 10 bar (145 psi),
6.3 bar (91 psi) set pressure and
a Δp: 1 bar (14.5 psi) drop from
set.

Ambient/Media temperature:

Unit with gauge port without
integrated gauge :

-40 ... +80°C (-40 ... +176°F)

Air supply must be dry enough
to avoid ice formation at
temperatures below +2°C (+35°F).

Atex:

Regulators HR84 are in conform-
ity 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 (Magnum 3904)

Bonnet: Die cast Aluminium

Valve: Brass and

Low temperature Nitrile

Elastomers: Low temperature
Nitrile

Diaphragm: Low temperature


Silicone, polyester reinforced

Lower spring rest and dia-

phragm retainer:

Aluminium

Technical data HR84G - standard models with gauge port Rc1/8 (without gauge)

Symbol	Port size	Pressure range (bar)	Adjustment	Diaphragm Type	Weight (kg)	Model*)
	G3/8	0.3 ... 10	T-bar	Relieving	0.75	HR84G-3GT-RMN
	G1/2	0.3 ... 10	T-bar	Relieving	0.75	HR84G-4GT-RMN
	G3/4	0.3 ... 10	T-bar	Relieving	0.73	HR84G-6GT-RMN

*) All models shown here are supplied with gauge port 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)

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Thread form	Substitute
PTF	A
ISO G	G
Adjustment	Substitute
T-bar	T

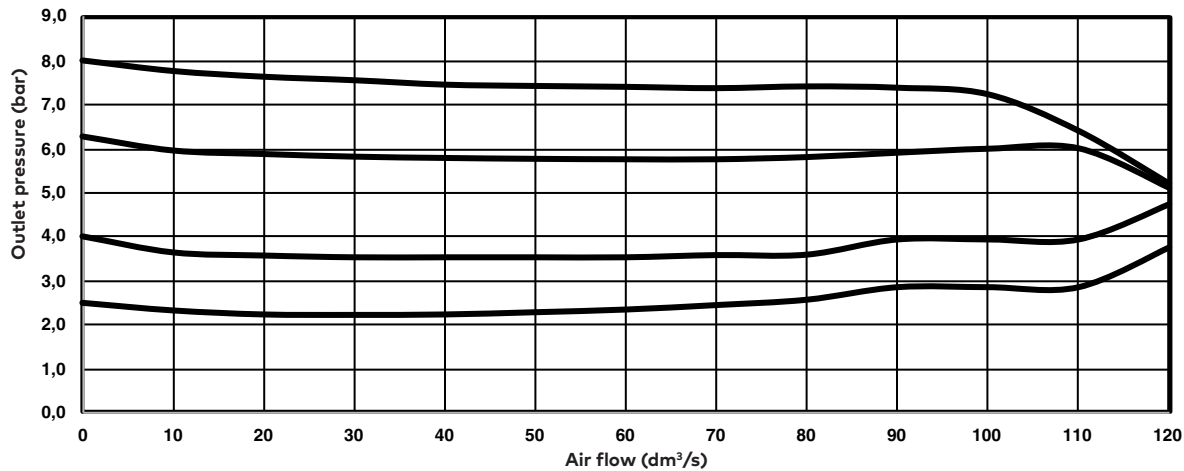
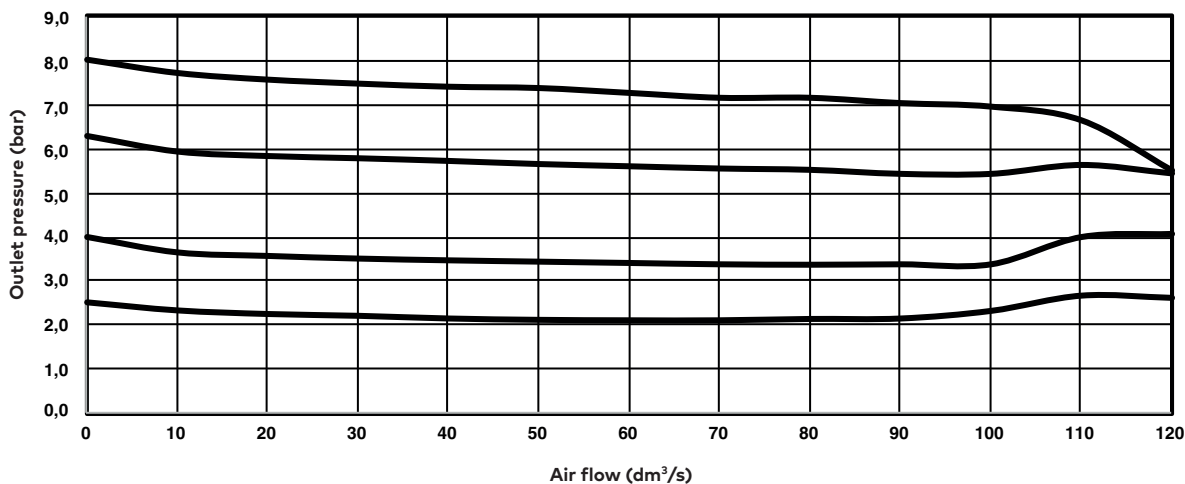
HR84G-*T-*****

Gauge	Substitute
Without integrated gauge but with gauge port 1/8"	N
With integrated gauge *3)	G
Pressure range *2)	Substitute
0.3 ... 4 bar	F
0.3 ... 10 bar (standard)	M
0.7 ... 17 bar	S
Diaphragm Type	Substitute
Relieving	R
Non-Relieving	N

*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) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*3) Attention : With integrated gauge temperature range of the unit changes to -20°C ... +65°C

Flow characteristics
Inlet pressure: 10 bar (145 psi)
Port size: 1/2"

Inlet pressure: 10 bar (145 psi)
Port size: 3/8"


Accessories
Quikclamp®

Page 5

H840014-51KIT

Quikclamp® with bracket assembled

Page 5

H840014-52KIT

Neck mounting bracket and panel nut

Page 5

840068-51KIT

Panel mounting nut

Page 5

840048-89KIT

Mounting bracket

Page 5

840024-50KIT

**Gauge adaptor kit
1/8 PTF**


H840143-01KIT

**Gauge adaptor kit
R 1/8**


H840143-02KIT

**Full flow porting block
horizontal, 3/4 PTF**

Page 6

H840028-50KIT

**Full flow porting block
horizontal, G3/4**

Page 6

H840028-53KIT

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

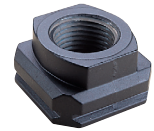
Page 6

H840028-68KIT

**Full flow porting block
vertical, G3/4"**

Page 6

H840028-69KIT

Port Adaptors

Page 6

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**

Page 6

H840016-50KIT

**Pressure sensing block
G1/4**

Page 6

H840016-51KIT

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

Page 6

0337717000000000

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

Page 7

0881300

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

Page 7

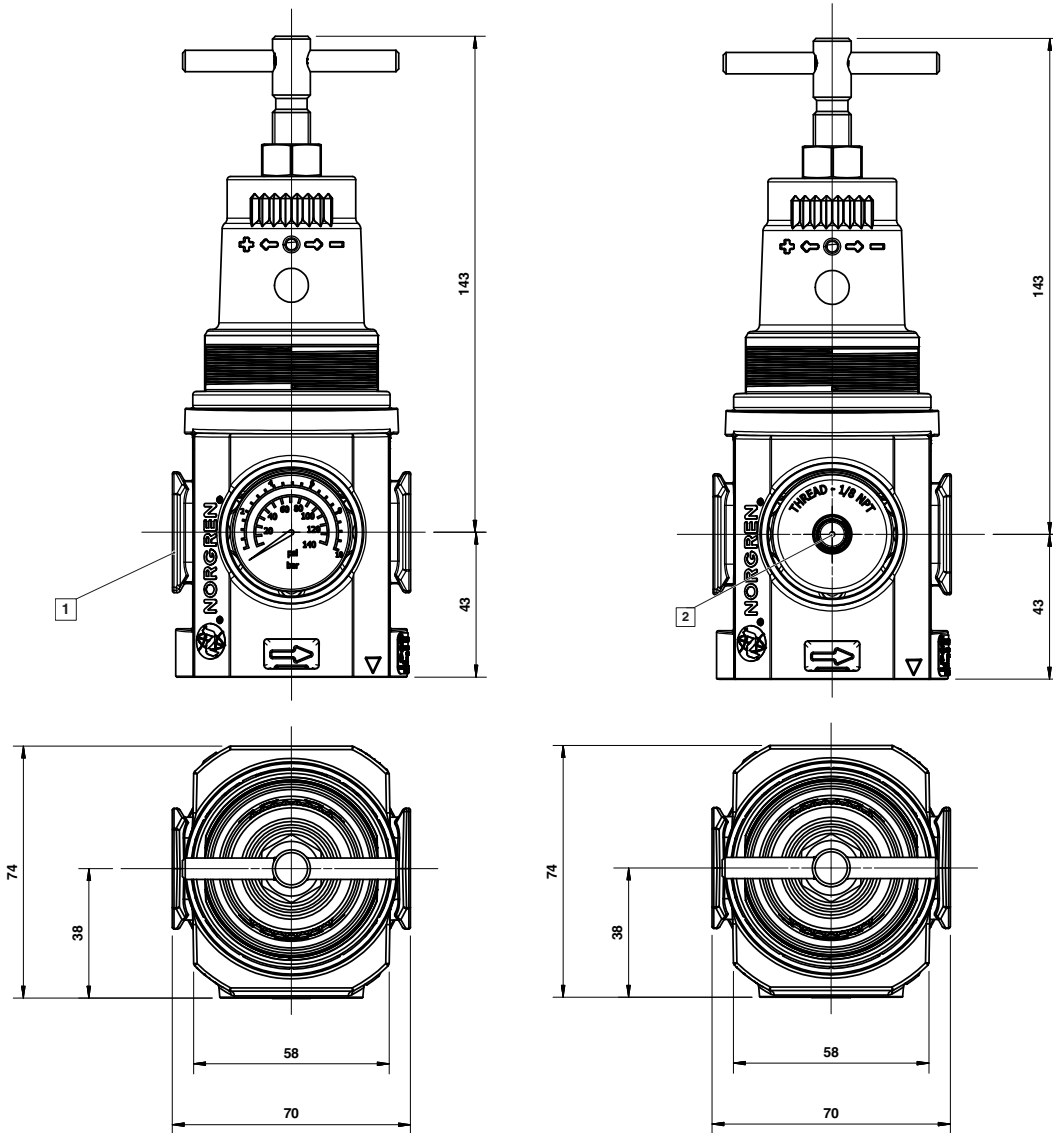
0860810

*2) -20 ... +60°C (-4 ... +140°F)
*4) -10°... +85°C (-14° ... +185°F)

**HR84 / HB84
Elastomer Kit**


HFRLB84-KIT

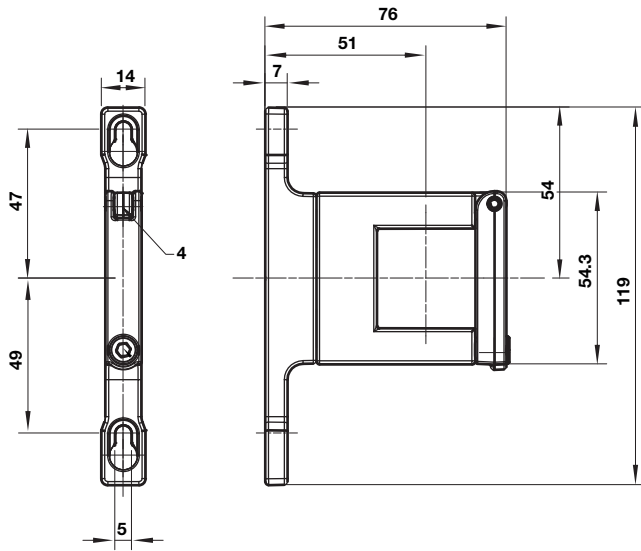
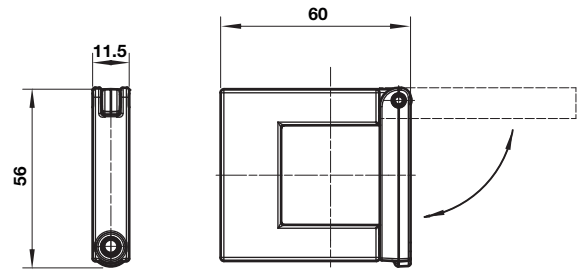
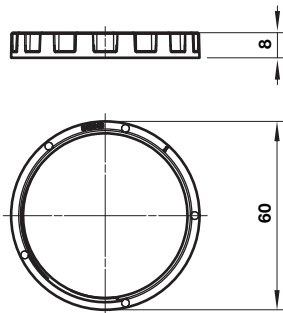
Dimensions

 Dimensions in mm
 Projection/First angle


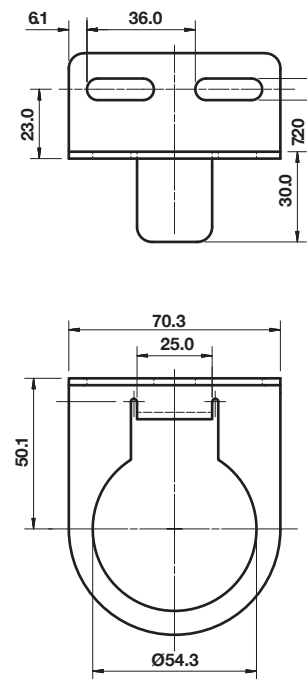
- 1 Main ports 3/8", 1/2" or 3/4" (ISO G/PTF)
- 2 Gauge Port Rc 1/8 for ISO G and 1/8 PTF for PTF main ports

Accessories

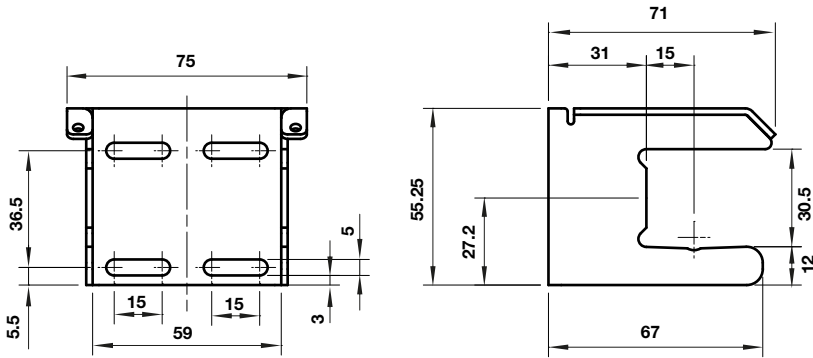
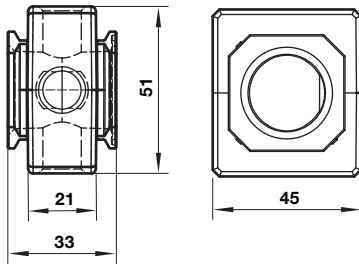
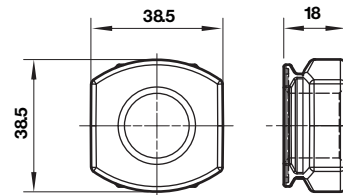
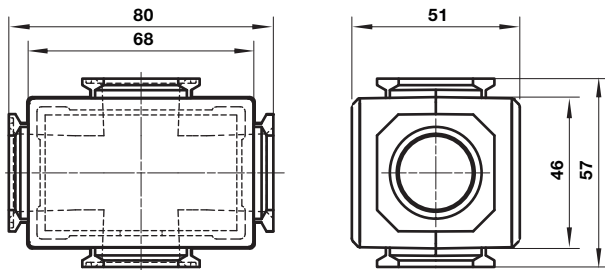
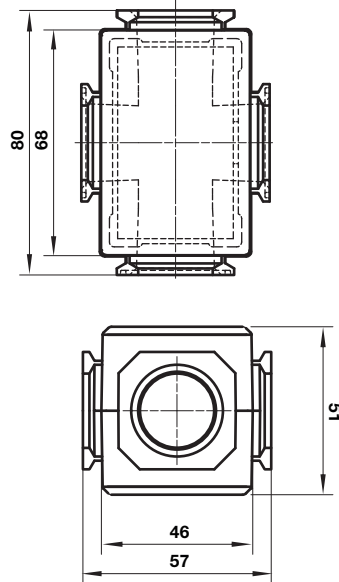
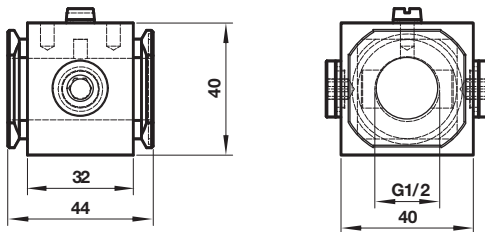
 Dimensions in mm
 Projection/First angle

Quikclamp® with wall bracket

Quikclamp®

Panel mounting nut


Recommended panel hole size:
 ø 55 mm ... 57 mm
 Panel thickness:
 2 ... 6 mm

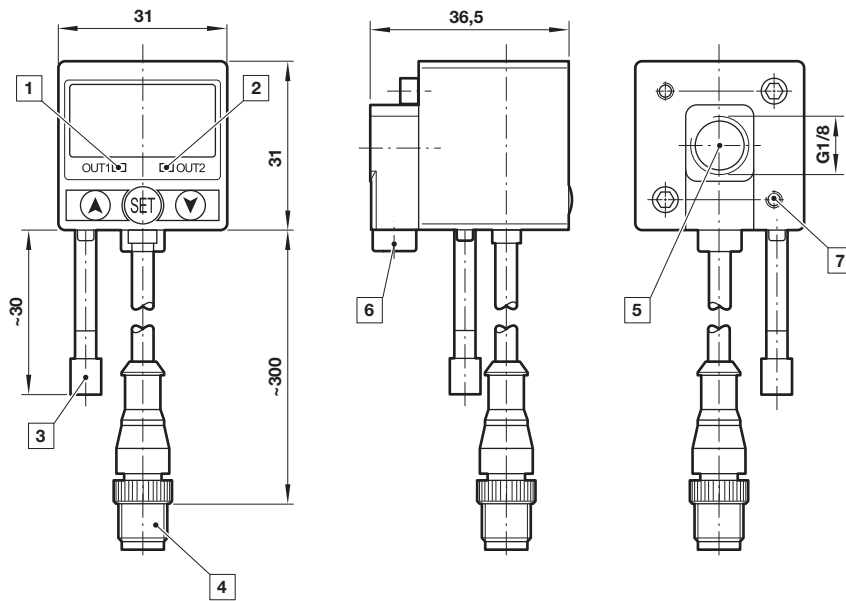
Neck mounting bracket


Mounting bracket

 Dimensions in mm
 Projection/First angle

Pressure sensing block

Pipe adaptor

Full flow porting block horizontal

Full flow porting block vertical

Porting block for 18D pressure switch


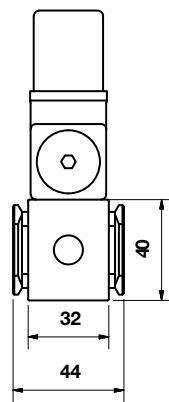
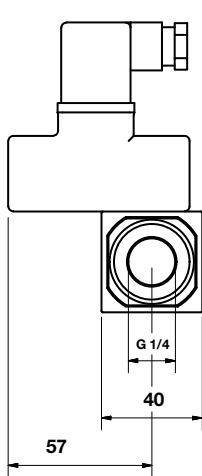
51D Pressure switch - digital

Dimensions in mm
Projection/First angle

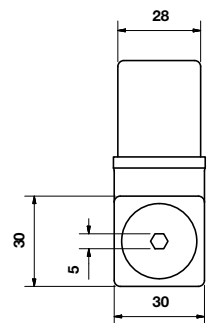
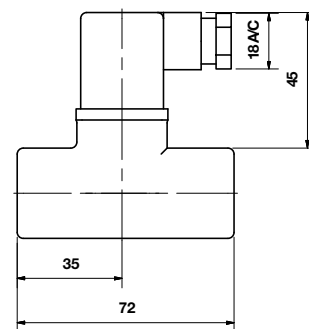


- 1 Switch OUT 1, green LED
- 2 Switch OUT 2, red LED
- 3 Dustproof protector
- 4 Connector M12 x 1
- 5 Inlet port
- 6 Alternative inlet port G1/8 plugged
- 7 Thread for mounting screw

18D Porting block and 18D assembled



18D Pressure switch



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 IMI Precision Engineering, 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.