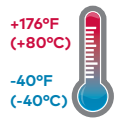


HR84G - Pressure Regulator For Extreme Temperature Applications Excelon® Plus Modular System



- > Port size: 3/8" ... 3/4" (ISO G/PTF)
- > ABS cover with high impact properties
- > Excelon® Plus design allows in-line installation or modular installation with other Excelon® Plus products
- > Salt spray compliant to ISO 9227



Technical features pressure regulator

Medium:

Compressed air only

Maximum supply pressure:

290 psi (20 bar)

Outlet pressure ranges:

4 ... 145 psi (0.3 ... 10 bar)

4 ... 58 psi (0.3 ... 4 bar) optional,

10...247psi (0.7...17bar) 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:

246 scfm (116 dm³/s) at port size:

1/2", Inlet pressure 145 psi (10 bar),

91 psi (6.3 bar) set pressure and

a Δp: 1 bar (14.5 psi) drop from

set.

Ambient/Media temperature:

Unit with gauge port without
integrated gauge :

-40 ... +176°F (-40 ... +80°C)

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

Atex:

Regulators HR84 are in conform-
ity with Atex 2014/34/EU



Ex h IIC T6 Gb

EX h IIIC T85°C Db

Materials:

Body: Die cast aluminum

Body covers:

ABS (Magnum 3904)

Bonnet: Die cast Aluminum

Valve: Brass and

Low temperature Nitrile

Elastomers: Low temperature
Nitrile

Diaphragm: Low temperature


Silicone, polyester reinforced

Lower spring rest and dia-

phragm retainer: Aluminum

Gauge port: Aluminum

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

Symbol	Port size	Pressure range psi (bar)	Adjustment	Diaphragm Type	Weight lbs. (kg)	Model*)
	3/8 PTF	4 ... 145 (0.3 ... 10)	T-bar	Relieving	1.65 (0.75)	HR84G-3AT-RMN
	1/2 PTF	4 ... 145 (0.3 ... 10)	T-bar	Relieving	1.65 (0.75)	HR84G-4AT-RMN
	3/4 PTF	4 ... 145 (0.3 ... 10)	T-bar	Relieving	1.61 (0.73)	HR84G-6AT-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
4 ... 58 psi (0.3 ... 4 bar)	F
4 ... 145 psi (0.3 ... 10 bar) (standard)	M
10 ... 247 psi (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

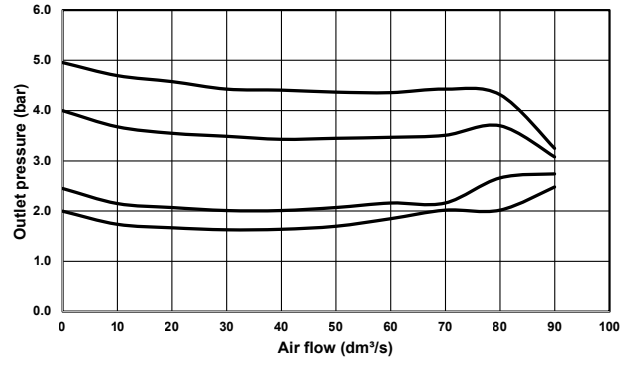
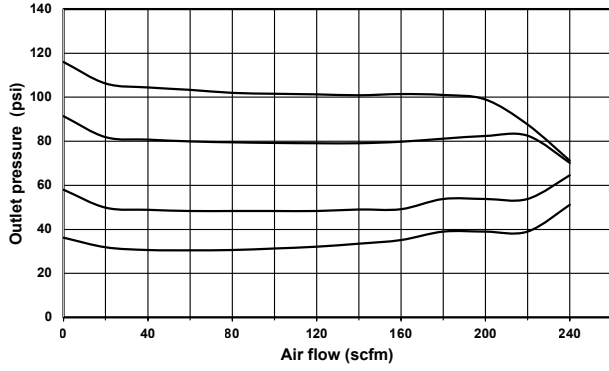
*2) Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*3) Attention : With integrated gauge temperature range of the unit changes to -4°F ... +149°F (-20°C ... +65°C)

Flow characteristics

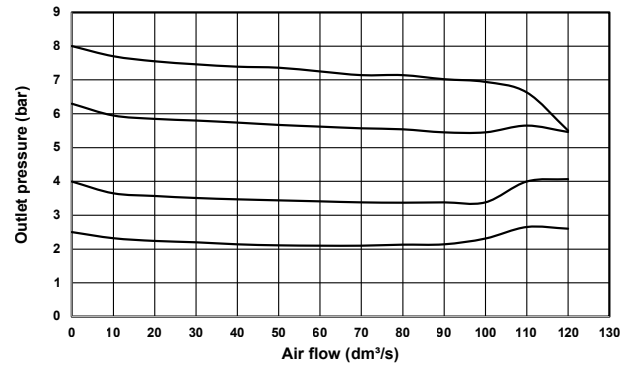
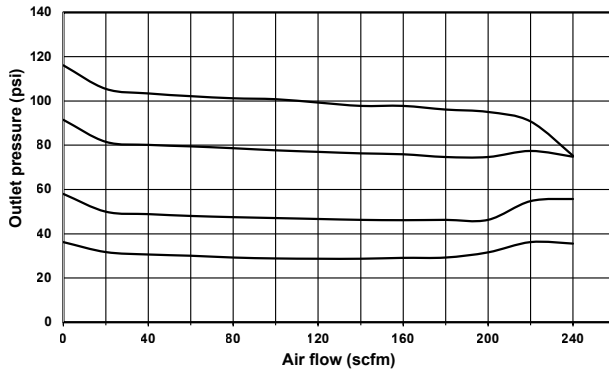
Inlet pressure: 145 psi (10 bar)

Port size: 1/2"














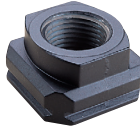







Inlet pressure: 145 psi (10 bar)

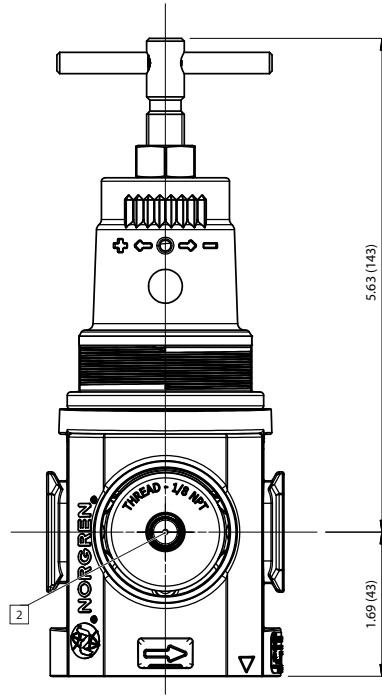
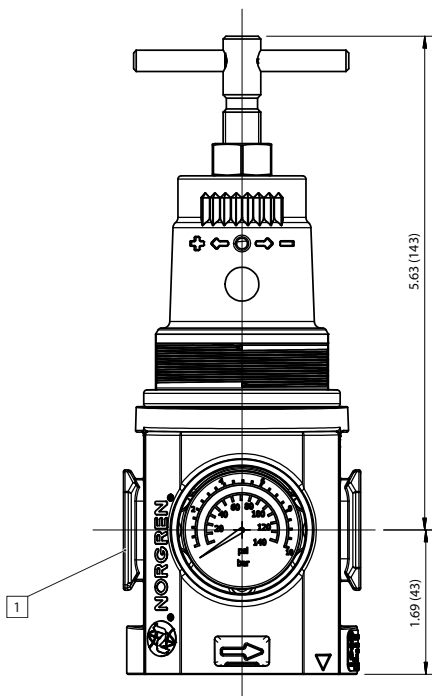
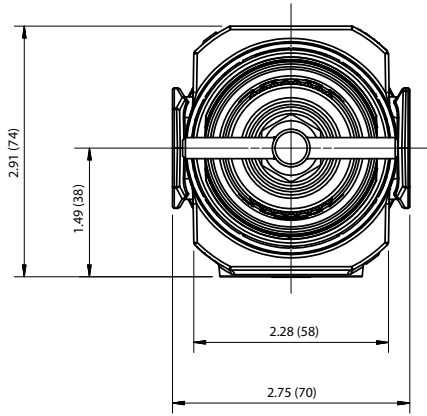
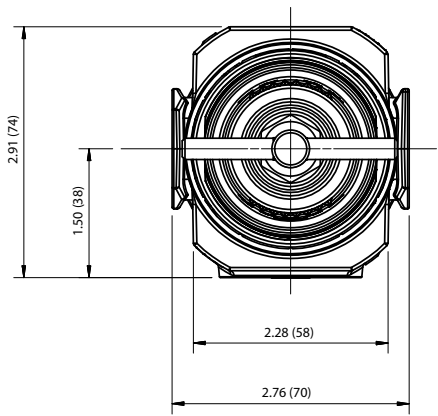
Port size: 3/8"



Accessories

<p>Quikclamp®</p>  <p>Page 6 H840014-51KIT</p>	<p>Quikclamp® with bracket assembled</p>  <p>Page 6 H840014-52KIT</p>	<p>Neck mounting bracket and panel nut (plastic)</p>  <p>Page 6 840068-51KIT</p>	<p>Panel mounting nut (plastic)</p>  <p>Page 6 840048-89KIT</p>	<p>Mounting bracket</p>  <p>Page 7 840024-50KIT</p>												
<p>Gauge adaptor kit 1/8 PTF</p>  <p>H840143-01KIT</p>	<p>Gauge adaptor kit R 1/8</p>  <p>H840143-02KIT</p>	<p>Neck mounting bracket and panel nut (metal)</p>  <p>Page 6 840068-50KIT</p>	<p>Panel mounting nut (metal)</p>  <p>Page 6 840048-01KIT</p>													
<p>Full flow porting block horizontal, 3/4 PTF</p>  <p>Page 7 H840028-50KIT</p>	<p>Full flow porting block horizontal, G3/4</p>  <p>Page 7 H840028-53KIT</p>	<p>Full flow porting block vertical, 3/4"PTF</p>  <p>Page 7 H840028-68KIT</p>	<p>Full flow porting block vertical, G3/4"</p>  <p>Page 7 H840028-69KIT</p>	<p>Port Adaptors</p>  <p>Page 7</p> <table border="1"> <tbody> <tr> <td>3/8 PTF</td> <td>H840015-02KIT</td> </tr> <tr> <td>1/2 PTF</td> <td>H840015-03KIT</td> </tr> <tr> <td>3/4 PTF</td> <td>H840015-04KIT</td> </tr> <tr> <td>G3/8</td> <td>H840015-10KIT</td> </tr> <tr> <td>G1/2</td> <td>H840015-11KIT</td> </tr> <tr> <td>G3/4</td> <td>H840015-12KIT</td> </tr> </tbody> </table>	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
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G3/4	H840015-12KIT															
<p>Pressure sensing block 1/4 PTF</p>  <p>Page 7 H840016-50KIT</p>	<p>Pressure sensing block G1/4</p>  <p>Page 7 H840016-51KIT</p>	<p>Pressure switch interface block (18D pressure switch) G1/4</p>  <p>Page 7 0337717000000000</p>														
<p>Pressure switch 18D 7.25 ... 116 psi (0.5 ... 8 bar) *4</p>  <p>Page 8 0881300000000000</p> <p>*2) -4 ... +140°F (-20 ... +60°C) *4) -14° ... +185°F (-10° ... +85°C)</p>																
<p>HR84 / HB84 Elastomer Kit</p>  <p>HFRLB84-KIT</p>																

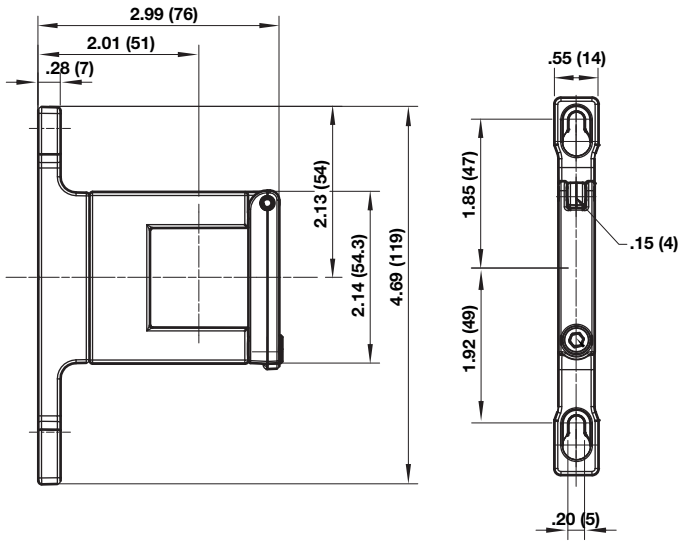
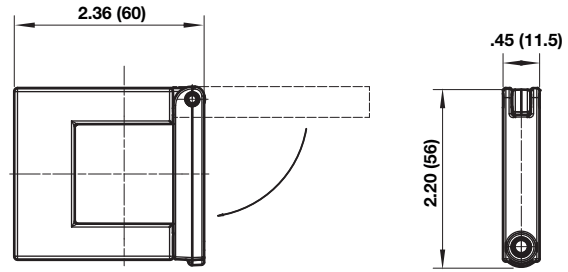
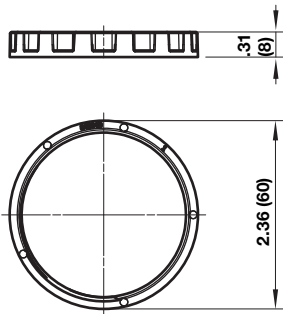
Dimensions

 Dimensions in inches (mm)
 Projection/Third angle


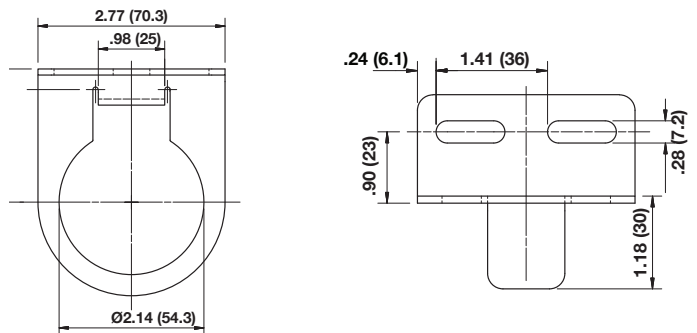
- 1 Main ports 3/8", 1/2" or 3/4"
(ISO G/PTF)
- 2 Gauge Port Rc 1/8 for ISO G and
1/8 PTF for PTF main ports

Accessories

 Dimensions in inches (mm)
 Projection/Third angle

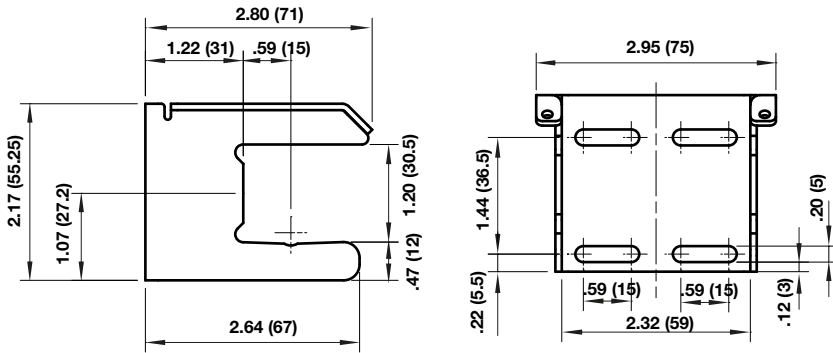
Quikclamp® with wall bracket

Quikclamp®

Panel mounting nut


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

Neck mounting bracket


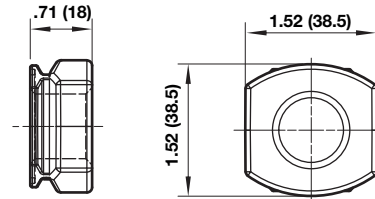
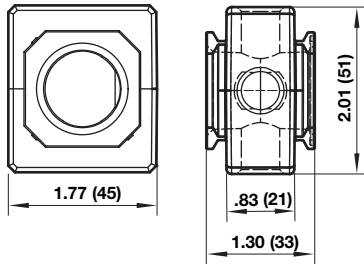
Mounting bracket

Dimensions in inches (mm)
Projection/Third angle



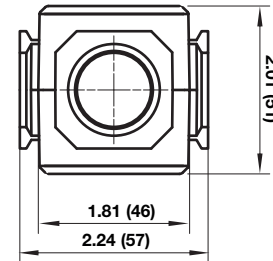
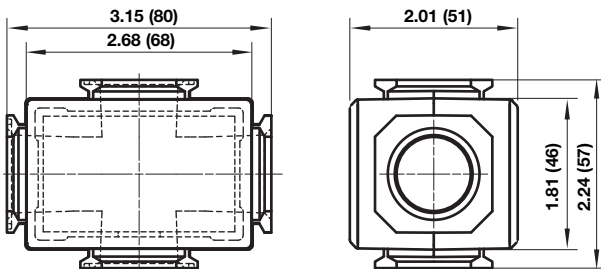
Pressure sensing block

Pipe adaptor

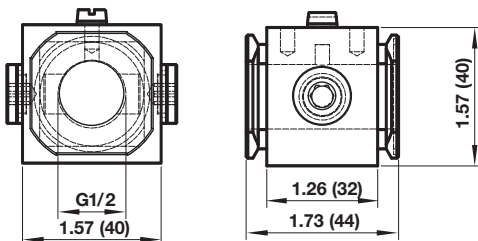
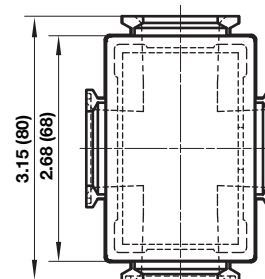


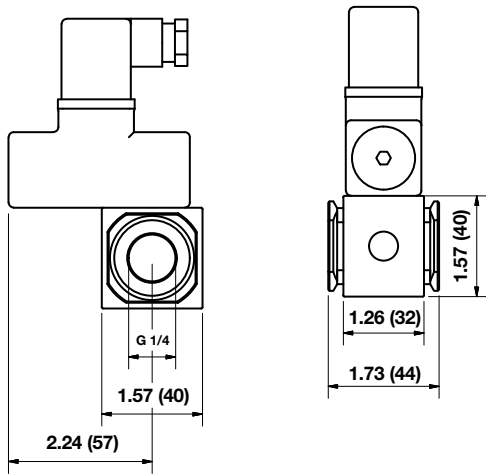
Full flow porting block horizontal

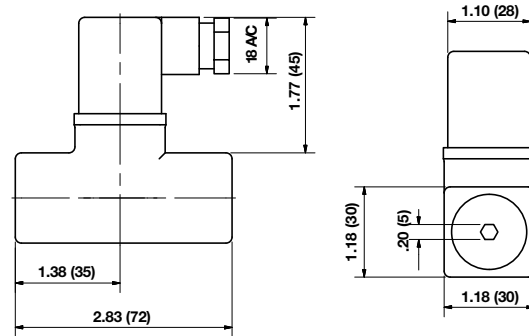
Full flow porting block vertical



Porting block for 18D pressure switch



**18D Porting block and
18D assembled**

18D Pressure switch

 Dimensions in inches (mm)
Projection/Third 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 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.