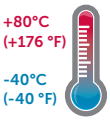
HR84G - Pressure regulator
For Extreme Temperature applications
Excelon® Plus Modular System

- 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 dm^3/s at port size: ½",
Inlet pressure 10 bar (145 psi),
6.3 bar (91 psi) set pressure and a
Δp: 1 bar (14.5 psi) doop 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 conformity with Atex 2014/34/EU
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 diaphragm 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/en/support/configurators/air-preparation-configurator or contact IMI Norgren

Option selector *1)

HR84G-★★T-★★★

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

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

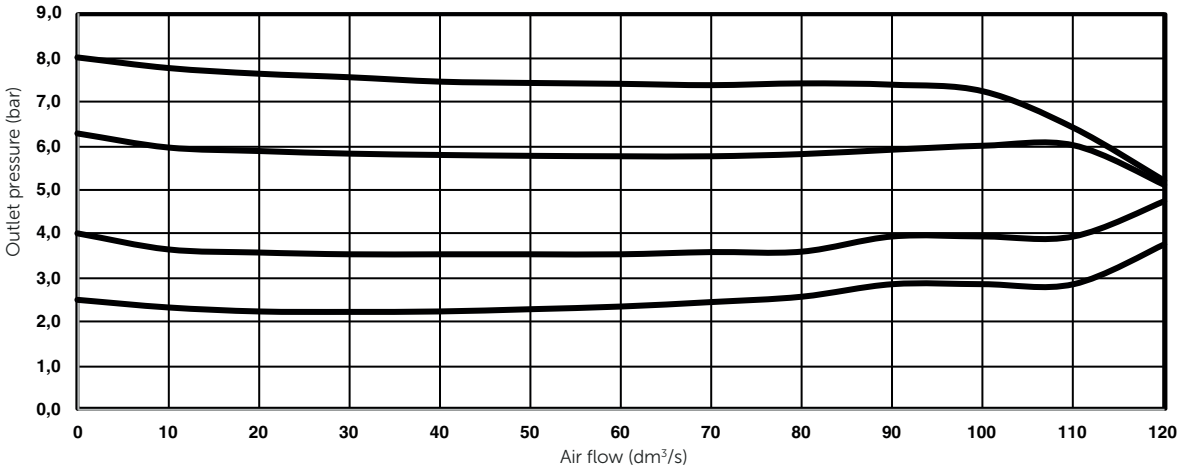
*1) All models shown here are applicable for flow direction left to right.
With flow direction right to left please use the online configurator www.norgren.com/en/support/configurators/air-preparation-configurator or contact IMI Norgren

*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.

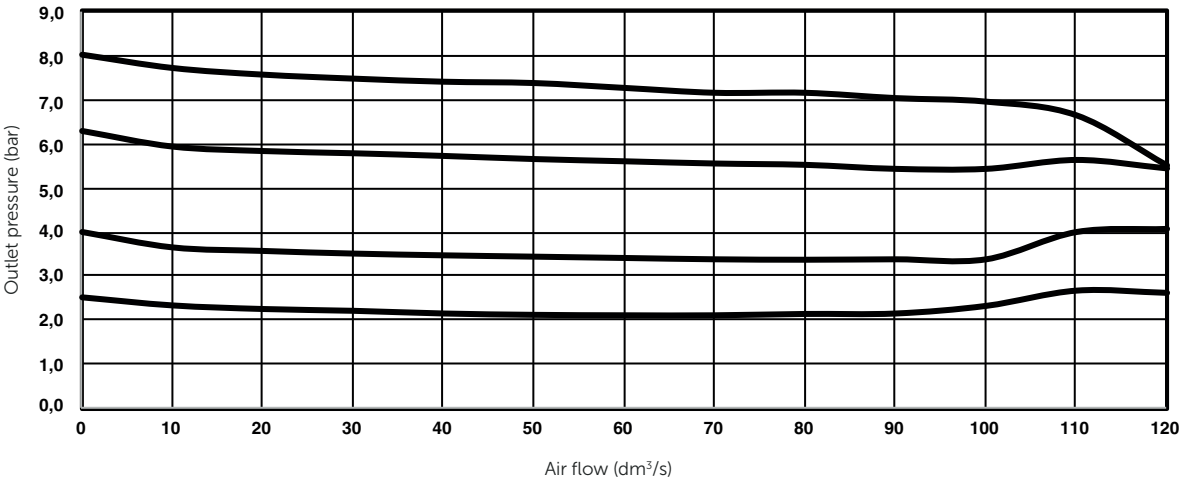
*3) Attention : With integrated gauge temperature range of the unit changes to -20°C ... +65°C

Flow characteristics

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



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



Accessories

Quikclamp

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H840014-51KIT

Quikclamp with bracket assembled

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H840014-52KIT

Neck mounting bracket and panel nut

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840068-51KIT

Panel mounting nut

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840048-89KIT

Mounting bracket

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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

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H840028-50KIT

Full flow porting block horizontal, G3/4

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H840028-53KIT

Full flow porting block vertical, 3/4"PTF

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H840028-68KIT

Full flow porting block vertical, G3/4"

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H840028-69KIT

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

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

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0860810

*2) -20 ... +60°C (-4 ... +140°F)

*4) -10°... +85°C (-14° ...+185°F)

HR84 / HB84 Elastomer Kit, relieving

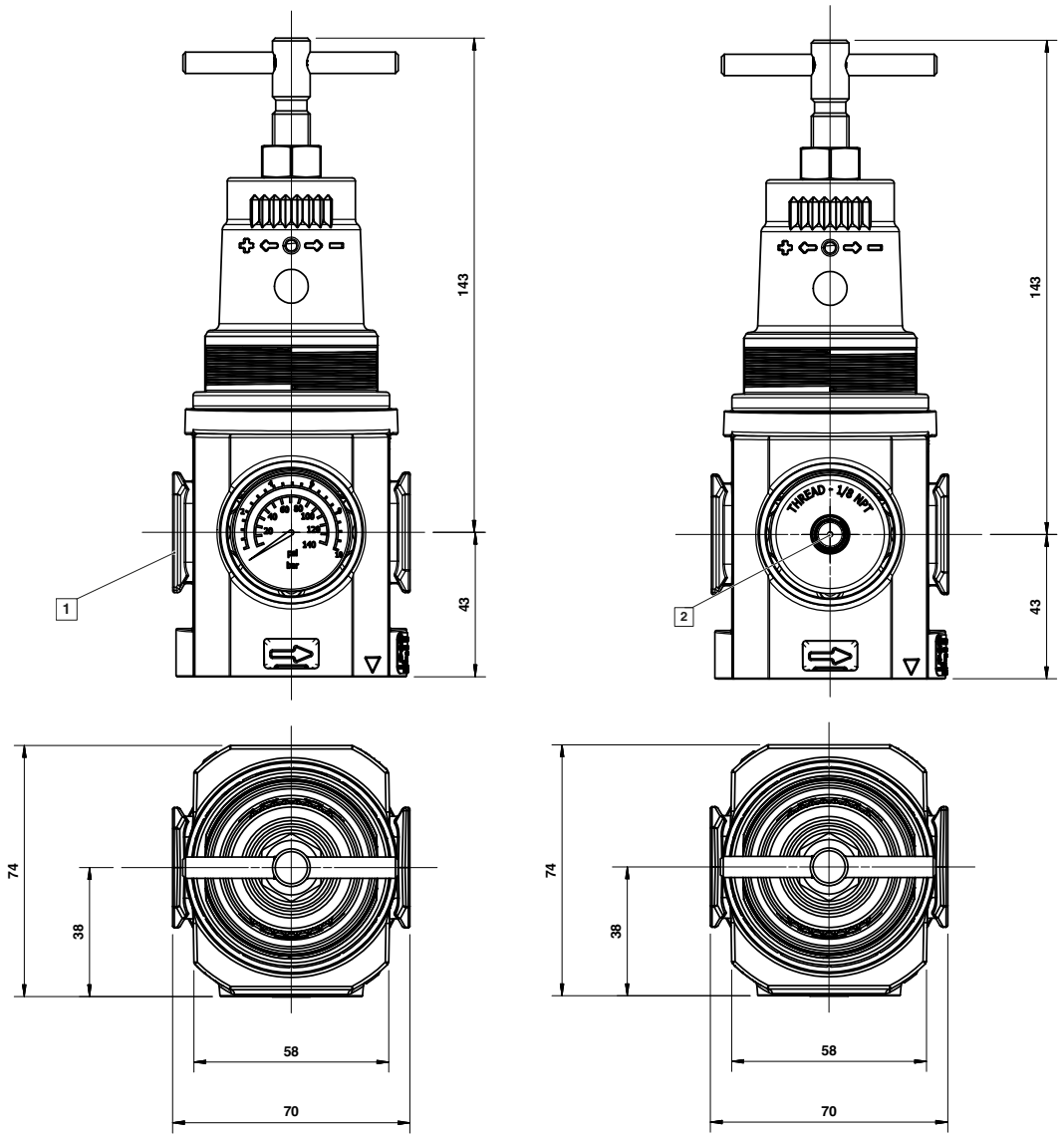
HFRLB84-KIT

HR84 / HB84 Elastomer kit, Non-relieving

FRLB84NR-KIT

Dimensions

Dimensions in mm
Projection/First angle

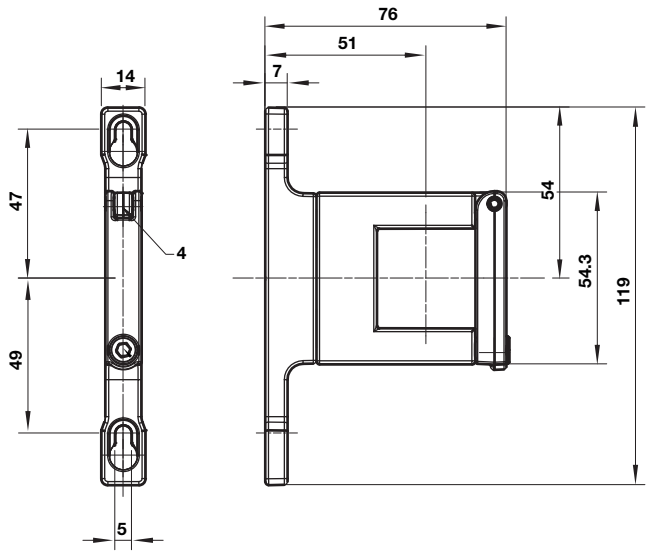


1 Main ports 3/8", 1/2" or 3/4" (ISO G/PTF)
2 Gauge Port Rc 1/8 for ISO G and 1/8 PTF for PTF main ports

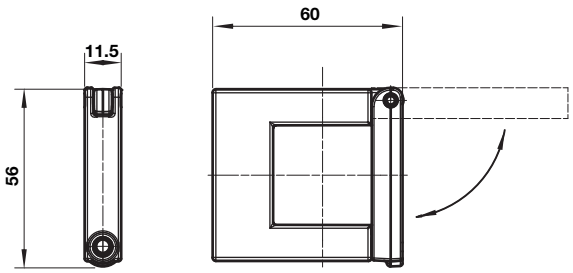
Accessories

Dimensions in mm
Projection/First angle

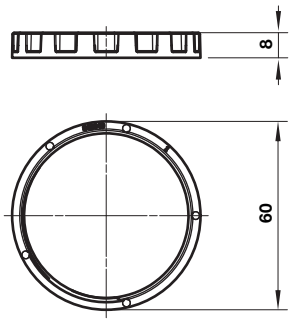
Quikclamp with wall bracket



Quikclamp

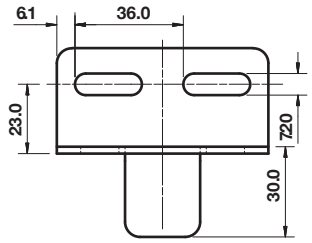


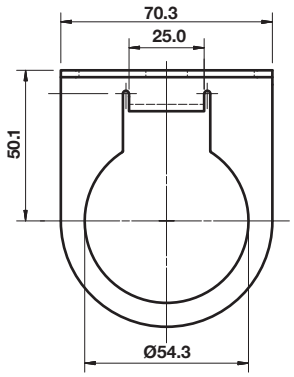
Panel mounting nut



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

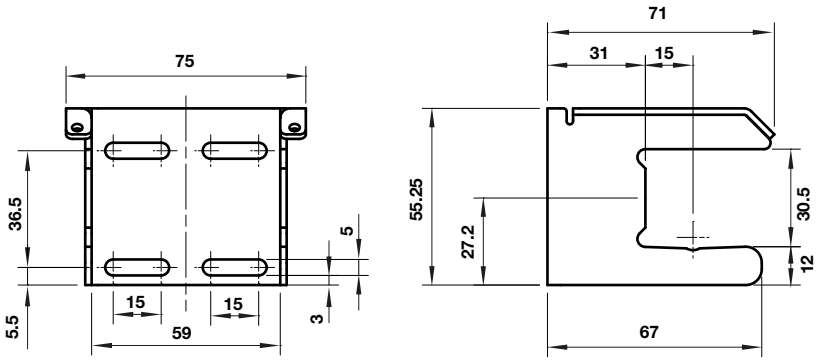
Neck mounting bracket



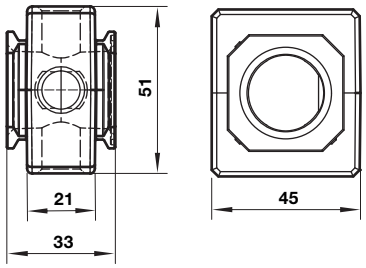


Mounting bracket

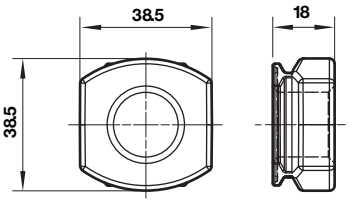
Dimensions in mm
Projection/First angle



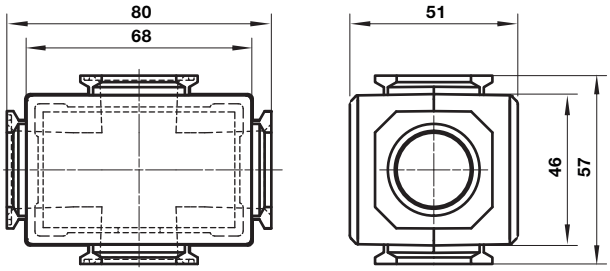
Pressure sensing block



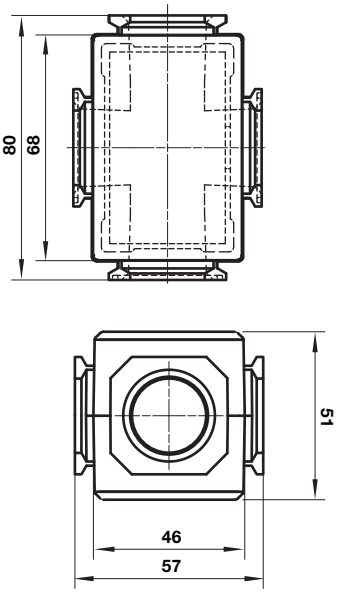
Pipe adaptor



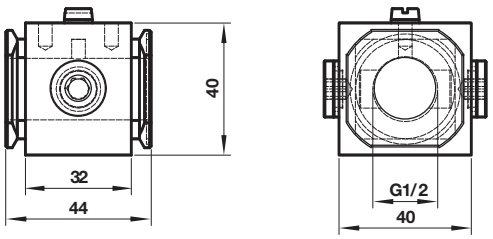
Full flow porting block horizontal



Full flow porting block vertical

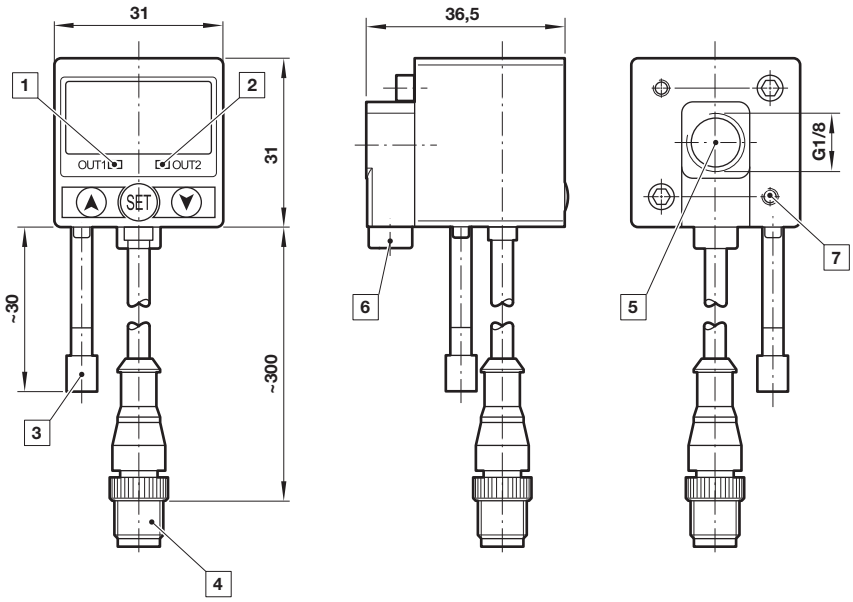


Porting block for 18D pressure switch



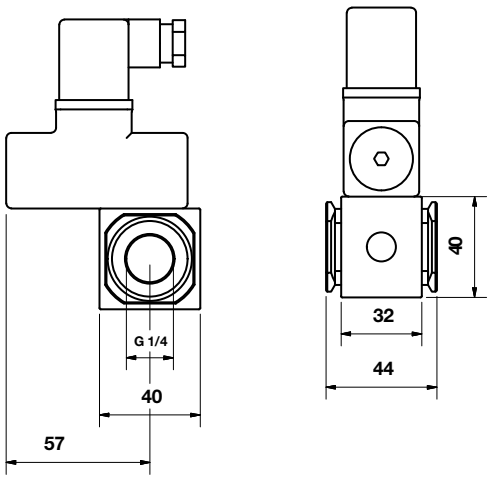
51D Pressure switch - digital

Dimensions in mm
Projection/First angle

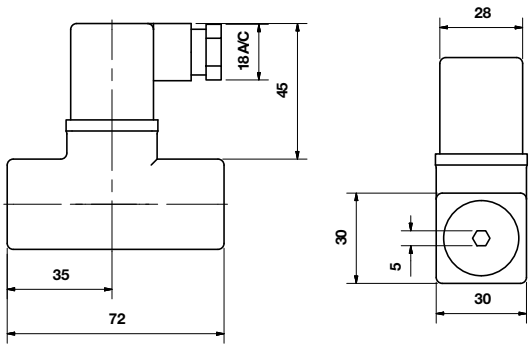


1 Switch OUT 1, green LED
2 Switch OUT 2, red LED
3 Dustproof protector
4 Connector M12 x 1
5 Inlet port
6 Alternative inlet port G1/8 plugged
7 Thread for mounting screw

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 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.