

R82G - Pressure Regulators Excelon® Plus Modular System

- Port size: 1/4" and 3/8" (ISO G/PTF)
- Excelon[®] Plus design allows in-line installation or modular installation with other Excelon[®] Plus products
- Push to lock adjusting knob with built in tamper-resistant feature
- Easy to read flushmounted integrated pressure gauge as standard



Technical features

Medium:

Compressed air only **Maximum supply pressure:** 290 psi (20 bar)

Outlet pressure ranges: 4 to 30 psi (0.3 to 2 bar), 4 to 58 psi (0.3 to 4 bar), 4 to 102 psi (0.3 to 7 bar), 4 to 145 psi (0.3 to 10 bar), 10 to 247 psi (0.7 to 17 bar) Port size: G1/4, G3/8, 1/4 PTF, 3/8 PTF

Technical data R82G—standard models

Gauge:

Integrated as standard Gauge port 1/8 as option **Diaphragm Type:** Relieving **Flow:** 69 scfm (33 dm³/s) at port size 1/4", 66 scfm (31 dm³/s) at port size 3/8", inlet pressure 145 psi (10 bar), operating pressure 91 psi (6.3 bar) and a Δp: 7.25 psi (0.5 bar) drop from set.

Ambient/Media temperature:

-4 ... +149°F (-20 ... +65°C) Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

Materials:

Body: Die cast aluminum Body covers: ABS Bonnet: POM/Aluminum Valve: PP Elastomers: NBR

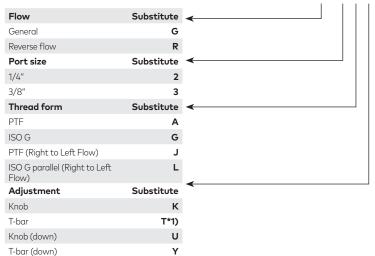
Symbol	Port size (PTF)	Pressure range psi (bar)	Adjustment	Integrated gauge psi (bar)	Weight lbs (kg)	Model *1)
	1/4	4 to 145 (0.3 to 10)	Knob	0 to 145 psi (0 to 10)	0.50 (0.23)	R82G-2AK-RMG
	3/8	4 to 145 (0.3 to 10)	Knob	0 to 145 psi (0 to 10)	0.50 (0.23)	R82G-3AK-RMG

*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 https://www.norgren.com/en-us/support/technical-support/configurators/air-preparation-configurator or contact Norgren.



Option selector

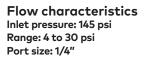
R82 * - * * *- * * *

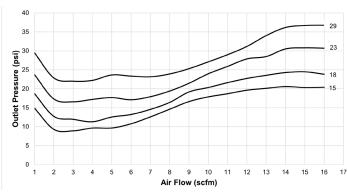


Substitute Gauge With fitted integrated gauge G Without integrated gauge but with gauge port 1/8" Ν Pressure range *2) Substitute 4 to 30 psi (0.3 to 2 bar) С F 4 to 58 psi (0.3 to 4 bar) 4 to 102 psi (0.3 to 7 bar) к 4 to 145 psi (0.3 to 10 bar) м 10 to 247 psi (0.7 to 17 bar) S*2) Diaphragm type Substitute Relieving R Ν Non-relieving *2) Outlet pressure can be adjusted to

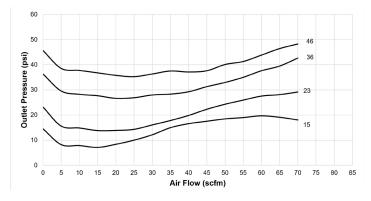
pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

*1) Units with 247 psi (17 bar) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position.

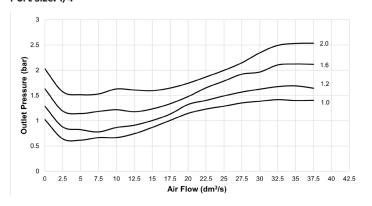


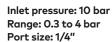


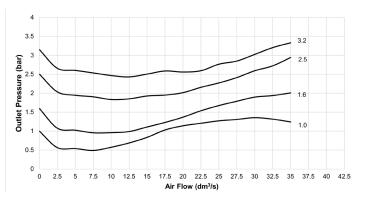
Inlet pressure: 145 psi Range: 4 to 58 psi Port size: 1/4"



Inlet pressure: 10 bar Range: 0.3 to 2 bar Port size: 1/4"



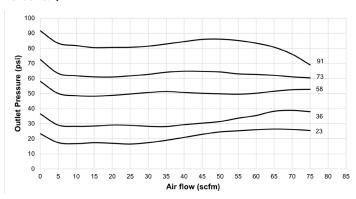




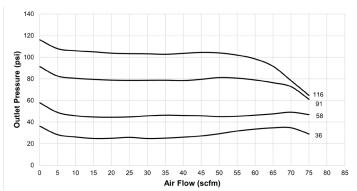


Flow characteristics Inlet pressure: 145 psi Range: 4 to 102 psi

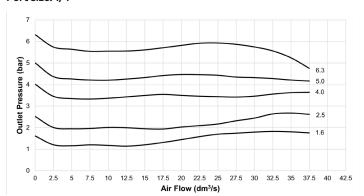
Port size: 1/4"



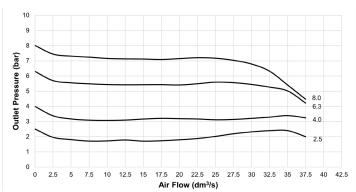
Inlet pressure: 145 psi Range: 4 to 145 psi Port size: 1/4"



Inlet pressure: 10 bar Range: 0.3 to 7 bar Port size: 1/4"



Inlet pressure: 10 bar Range: 0.3 to 10 bar Port size: 1/4"





Accessories



Page 5 820014-51KIT

Integrated gauge 10 bar gauge



820073-01KIT

Pressure sensing block 1/4 PTF



Page 7 820016-50KIT





*1) For other pressure ranges, please see 18D data sheet *2) For other pressure ranges, please see 54D data sheet

Gauges (For regulators with gauge port instead of integrated port)



(psi)	(bar) *3)	(MPa)	ø	Thread size	Model
0 to 84	0 to 6	0 to 0.6	2″	R1/8	18-015-012
0 to 145	0 to 10	0 to 1.0	2″	R1/8	18-015-013
0 to 362	0 to 25	0 to 2.5	2″	R1/8	18-015-014

*3) primary scale



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Integrated gauge 20 bar gauge



820073-02KIT

Pressure sensing block G1/4



820016-51KIT



54D-V110G-DD0-AA

Neck mounting bracket and panel nut



Page 6 820068-51KIT

Integrated gauge 4 bar gauge



820073-03KIT

Porting block 3/8" PTF



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Center back connection, white face



Pressure range								
(psi)	(bar) *3)	(MPa)	ø	Thread size	Model			
0 to 60	0 to 4	0 to 0.4	2″	1/8" NPT	18-015-202			
0 to 160	0 to 11	0 to 1.1	2″	1/8" NPT	18-015-204			
0 to 300	0 to 20	0 to 2.1	2″	1/8" NPT	18-015-205			

*3) primary scale

Panel mounting nut



Page 6 820048-89KIT

Gauge adapter kit 1/8 PTF



820143-01KIT



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840055-02KIT

Mounting bracket



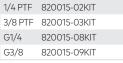
Page 6 820024-50KIT



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

Page 7 0523109000000000



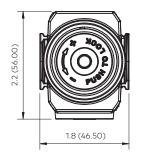


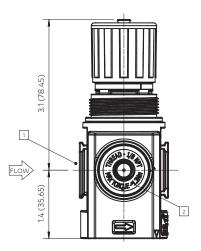
Service Kits

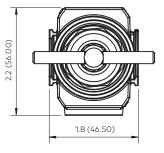


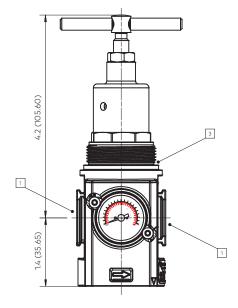


Dimensions







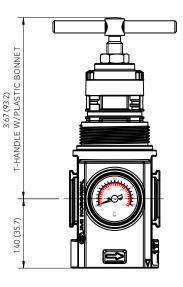


Dimensions in inches (mm) Projection/Third angle



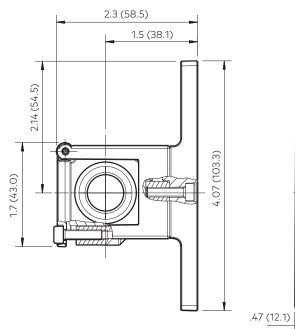
 Main ports 1/4", 3/8", (ISO G/PTF)
Gauge port Rc 1/8 for ISO G and 1/8 PTF for PTF main ports
Bonnet for 10 to 247 psi

pressure range option

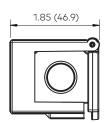


Accessories

Quikclamp[®] with wall bracket



Quikclamp®





(39.0)

23

1.65 (42.0)

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TC



- 0.15 (3.86)

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0.15 (3.86) 2X 0.24 (6)

(5.10)

4X 0.44 (11.1)

4X 0.20 2X 0.91 (23)

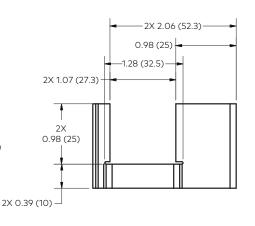
Mounting bracket

2X 0.20 (5)

1.38 (35)

2X 0.14 (3.45)

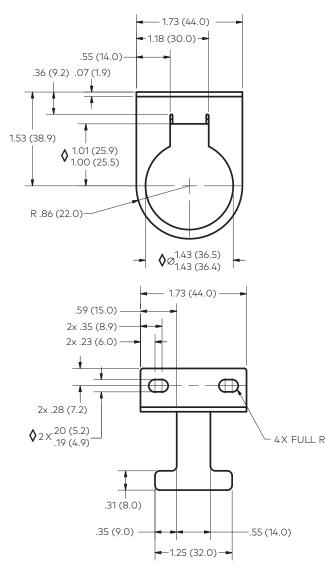
2X 0.95 (24.23)



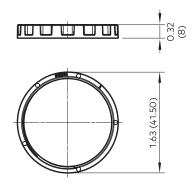
Dimensions in inches (mm) Projection/Third angle



Neck mounting bracket



Panel mounting nut

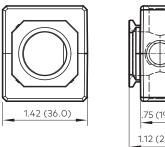


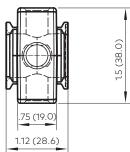


Dimensions in inches (mm) Projection/Third angle

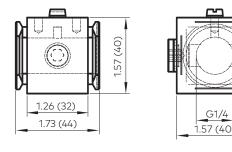
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Pressure sensing block

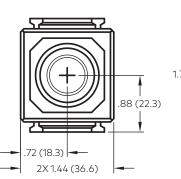


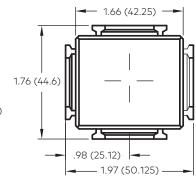


Porting block for 18D pressure switch

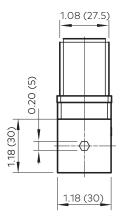


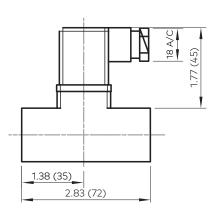
Full flow porting block



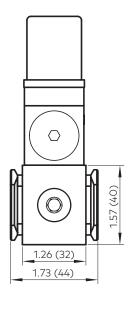


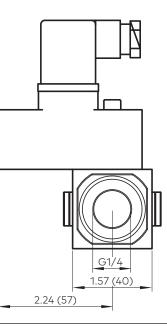
18D Pressure switch



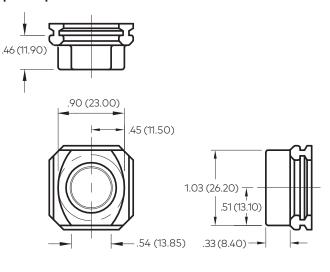


18D Porting block and 18D assembled





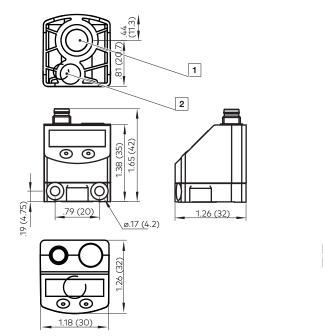
Pipe adapter



Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (2017 - 9280) © 2023 Norgren Ltd



54D Pressure switch - digital



Dimensions in inches (mm) Projection/Third angle



Main pressure connection (G1/8)
Auxiliary pressure connection for differential pressure sensing (M5)

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.