R82 — Excelon® Plus Modular System **Pressure Regulators**

- > Port size: 1/4" & 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 flush mounted integrated pressure gauge as standard



Technical features

Medium:

Compressed air only

Maximum supply pressure: 290 psi (20 bar)

Outlet pressure ranges:

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

Port size:

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

Integrated as standard Gauge port 1/8 as option

Diaphragm Type:

Relieving

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 : 14.5 psi (1.0 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 aluminium Body covers: ABS Bonnet: POM/Aluminium

Valve: PP Elastomers: NBR

Technical data R82G

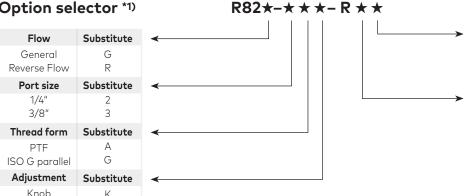
Symbol	Port Size (PTF)	Pressure range psi (bar)	Adjustment	Integrated gauge psi (bar)	Weight lb (kg)	Model *1
	1/4	4 to 145 (0.3 to 10)	Knob	0 to 145 psi (0 to 10)	0.50 (0.23)	R82G-2AK RMG
	3/8	4 to 145 (0.3 to 10)	Knob	0 to 145 psi (0 to 10)	0.50 (0.23)	R82G-3AK-RMG

^{*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 www.imi-precision.com/air-preparation-configurator or contact Norgren.

Option selector *1)

К

T*2)



Gauge	Substitute
With (fitted integrated gauge)	G
Without integrated gauge but with gauge port 1/8"	N
Pressure range *3)	Substitute
4 to 58 psi (0.3 to 4 bar)	F
4 to 145 psi (0.3 to 10 bar)	М
1 0 to 247 psi (0.7 to 17 bar)	S*2)

*3) 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) All models shown here are applicable for flow direction left to right. With flow direction right to left please use the online configurator www.imi-precision.com/air-preparation-configurator or contact Norgren.
- *2) Units with 247 psi outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position. T-bar handle only available with 247 psi option.

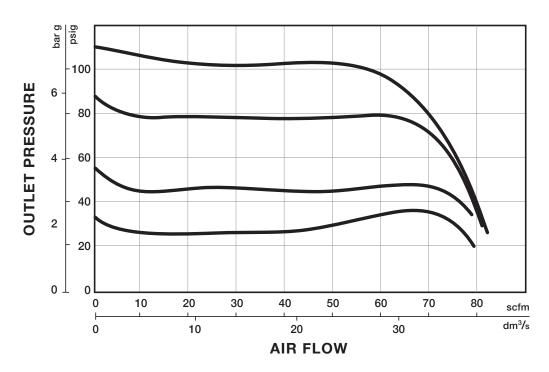


T-bar

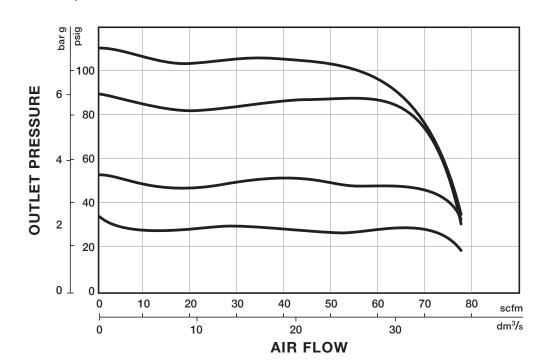


Flow characteristics

Inlet pressure: 145 psi (10 bar) Range: 4 to 145 psi (0.3 to 10 bar) Port size: 1/4"



Inlet pressure: 145 psi (10 bar) Range: 4 to 145 psi (0.3 to 10 bar) Port size: 3/8"





Accessories

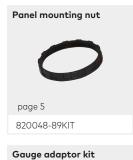


page 4 820014-51KIT



820014-52KIT













Integrated gauge

820073-02KIT



Integrated gauge

820073-03KIT



820100-01KIT













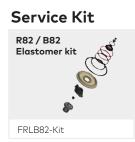
















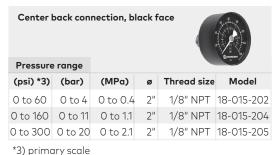


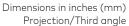


Gauges (For regulators with gauge port instead of integrated port)

Center back connection, white face										
Pressur	e range			0.0	DAGREN					
(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	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										

Gauges

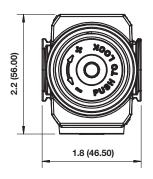




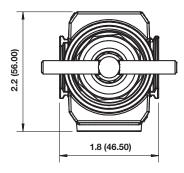


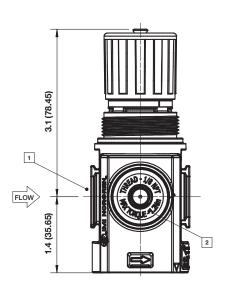


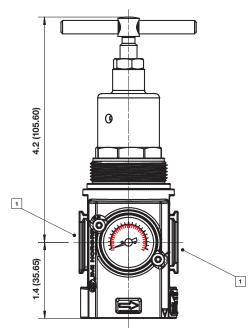
Dimensions



NORGREN



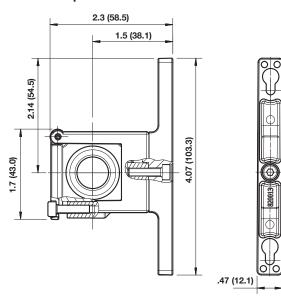




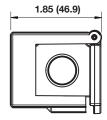
- 1 Main ports 1/4", 3/8", (ISO G/PTF)
- 2 Gauge port Rc 1/8 for ISO G and 1/8 PTF for PTF main ports

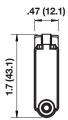
Accessories

Quikclamp® with wall bracket



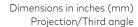
Quikclamp°





1.53 (39.0)

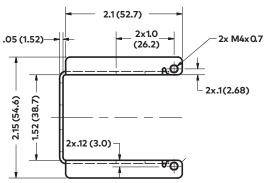
.65 (42.0)

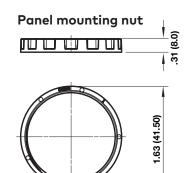


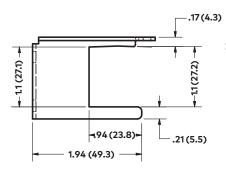
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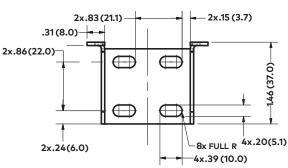


Mounting bracket

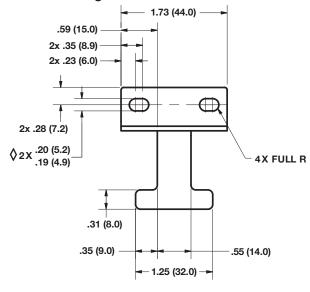


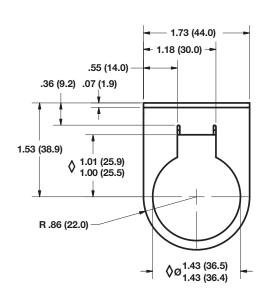


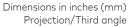




Neck mounting bracket



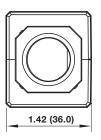


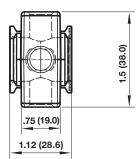


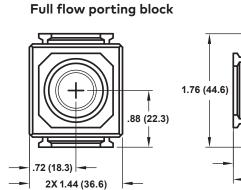


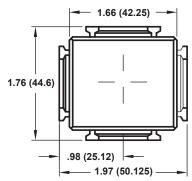


Pressure sensing block

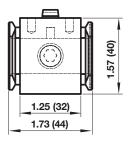


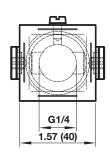




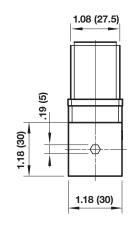


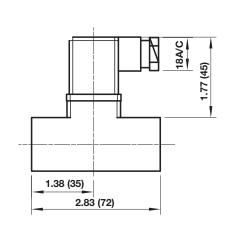
Porting block for 18D pressure switch



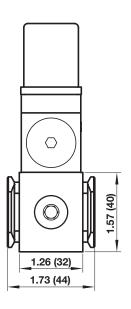


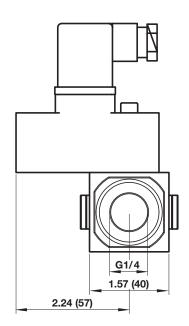
18D Pressure switch



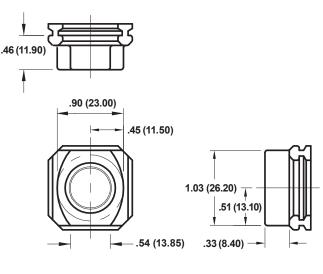


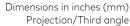
18D Porting block and 18D assembled





Pipe adaptor



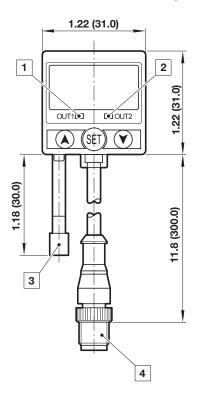


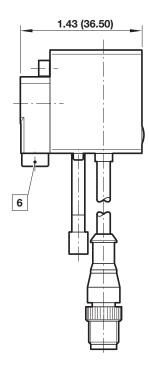


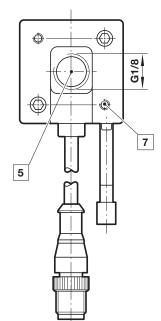


51D Pressure switch - digital

NORGREN







- 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 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.