V84G - Pressure Relief Valve Excelon® Plus Modular System

- Port size: 3/8" ... 3/4" (ISO G / PTF)
- Allows in-line installation or modular installation with other Excelon® Plus products
- Push to lock adjusting knob with optional tamper resistant accessory
- Helps protect air operated equipment from over pressurization
- IMI Norgren pressure relief valves comply with category O(S.E.P.) and category 1 of the Pressure Equipment Directive 97/23/EC.

Technical features

Medium:
Compressed air only

Maximum supply pressure:
290 psi (20 bar)

Relief pressure range:
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:
3/8 PTF, 1/2 PTF, 3/4 PTF, G3/8, G1/2, or G3/4

Gauge port:
Rc 1/8 with ISO G main ports
1/4 PTF with PTF main ports

Relief port:
Same size as the main ports

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: Aluminum
Bonnet: Aluminum
Bottom plug: Acetal
Elastomers: CR

Technical data—standard models

Symbol	Port size PTF	Pressure range psi (bar)	Weight lb (kg)	Model
	3/8	4...145 (0.3...10)	1.81 (0.82)	V84G-3AK-NMN
	1/2	4...145 (0.3...10)	1.76 (0.80)	V84G-4AK-NMN
	3/4	4...145 (0.3...10)	1.72 (0.78)	V84G-6AK-NMN

Option selector

V84G-★★★-N★★

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6
Thread form	**Substitute**
PTF	A
ISO G parallel	G
Adjustment	**Substitute**
Knob (standard)	K
T-bar	T*1)

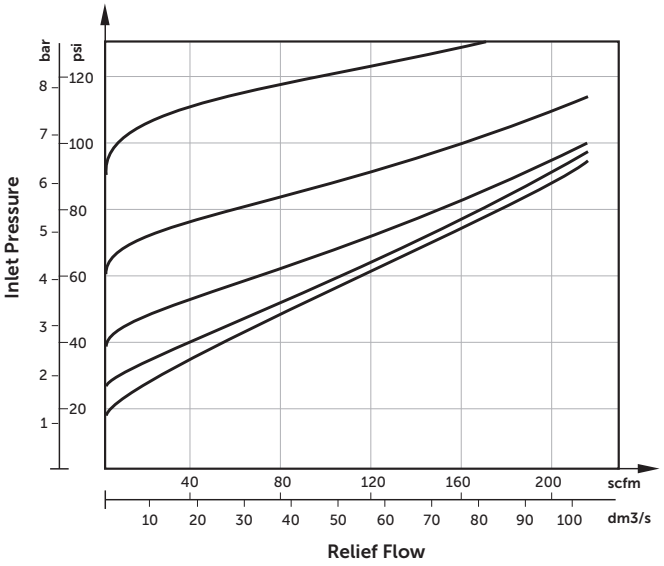
*1) Units with 247 psi (17 bar) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position.

Gauge	Substitute
With	G
Without	N
Relief pressure adjustment range *2)	**Substitute**
4 to 58 psi (0.3 to 4 bar)	F
4 to 102 psi (0.3 to 7 bar)	K
4 to 145 psi (0.3 to 10 bar)	M
10 to 247 psi (0.7 to 17 bar)	S *2)

*2) Relief valve 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.

Flow characteristics

Spring range: 4...145 psi (0.3...10 bar)
Port size: 1/2”



Accessories

Wall mounting bracket

Page 4

4324-50

Quikclamp®

Page 3

840014-51KIT

Quikclamp® with bracket assembled

Page 3

840014-52KIT

Hybrid Quikclamp® *1

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840014-61

Hybrid Quikclamp® with bracket assembled *1

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840014-62

Neck mounting bracket

Page 4

4368-51

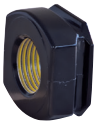
Panel nut

4348-89

Tamper resistant kit

4355-51

Quikmount pipe adaptor *2



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G3/8: 840015-10KIT
G1/2: 840015-11KIT
G3/4: 840015-12KIT
3/8 PTF: 840015-02KIT
1/2 PTF: 840015-03KIT
3/4 PTF: 840015-04KIT

Porting block with three alternative 1/4” ports

Page 3

G1/4: 840016-51KIT
1/4 PTF: 840016-50KIT

*1) To connect Excelon Plus 84 units to Excelon 74/73 units. Having the same hole centers as 74 series mounting bracket. A Quikclamp adds 13.6 mm to the overall width of a combination unit.

*2) Please use a Quikmount pipe adaptor if the Quikclamp be mounted at inlet or outlet side.

Pressure switch

Porting block for pressure switch

Page 4

0523110000000000

Pneumatic pressure switch 18D (7 to 120 psi)

0881300000000000

Padlock

Padlock

840055-01KIT

Service kits

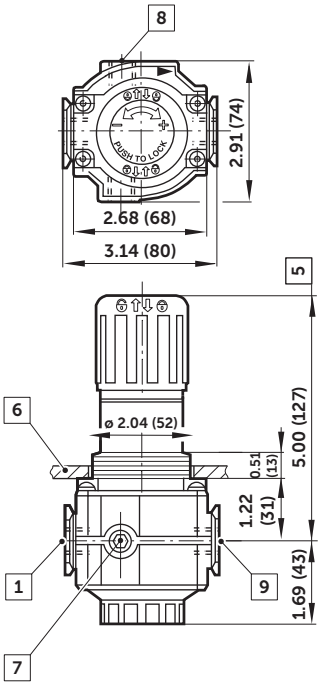
Service kit

4384-700

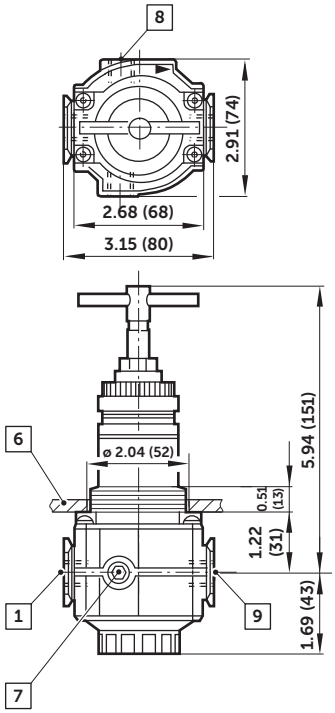
Dimensions in inches (mm)
Projection/Third angle

Dimensions

Standard



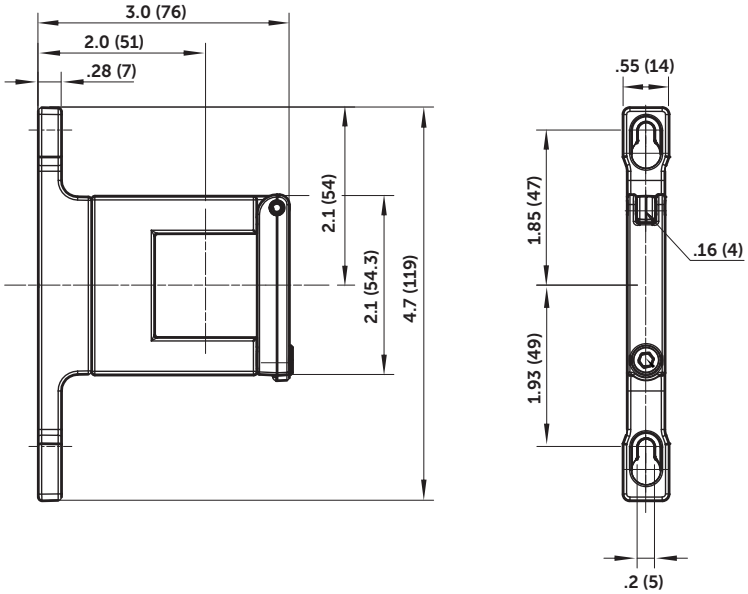
T-bar



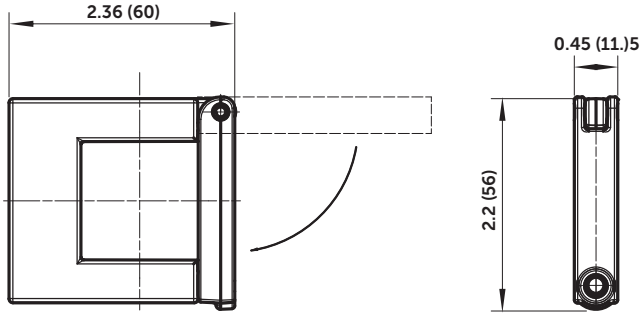
1 Inlet ports 3/8 ", 1/2" or 3/4"
5 Reduces by 4 mm with knob in locked position
6 Panel thickness 2 ... 6 mm
7 Gauge port Rc1/8 for ISO G and 1/4 PTF for PTF main ports
8 Alternative gauge port plugged
9 Exhaust ports 3/8 ", 1/2" or 3/4"

Accessories

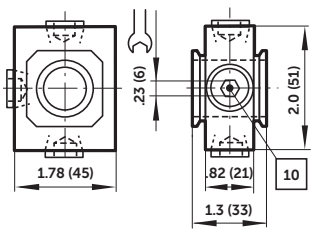
Quikclamp® with wall bracket



Quikclamp®

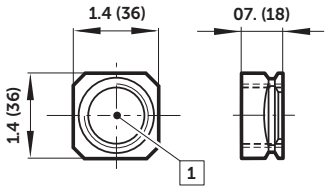


Porting block



10 Ports 1/4" ISO G/PTF plugged

Pipe adapter

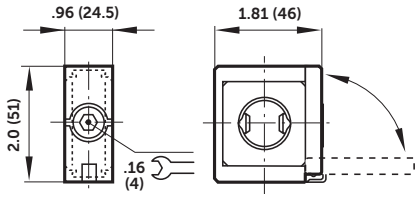


1 Main ports 3/8", 1/2" or 3/4" ISO G/PTF

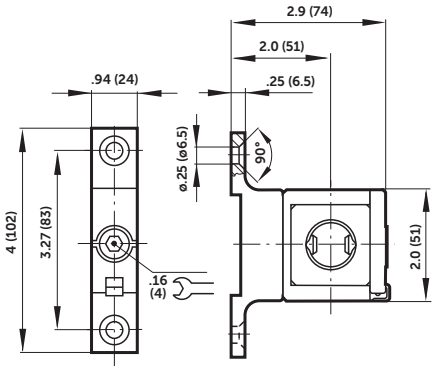
Dimensions in inches (mm)
Projection/Third angle

Accessories

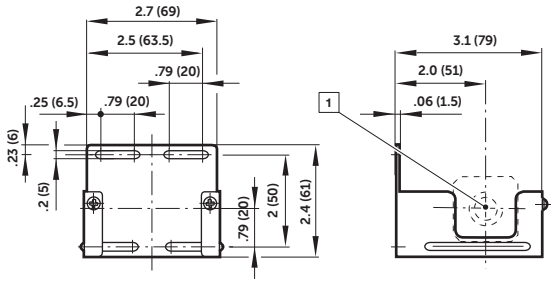
Hybrid Quikclamp®



Hybrid Quikclamp® with wall bracket

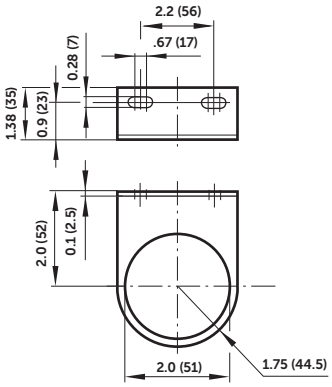


Wall mounting bracket

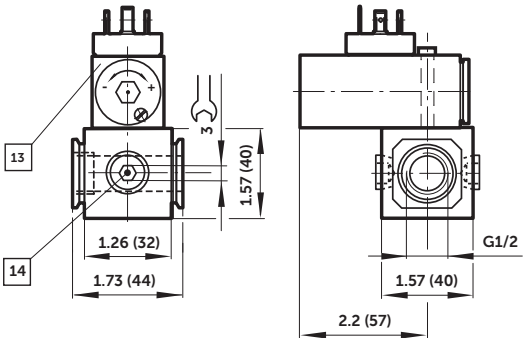


1 Main ports

Neck mounting bracket



Porting block for pressure switch



13 Pressure switch ordered separately
14 Alternative G1/4 ports plugged

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 ap plications not within published specifications, consult Norgren Co. 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.