

EXCELON® 74
Pressure Regulator
3/8", 1/2", 3/4" Port Sizes

- EXCELON design allows in-line or modular installation
- Full flow gauge ports
- Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure
- Standard relieving models allow reduction of downstream pressure when the system is dead-ended
- Optional reverse flow models available for use downstream of directional control valves
- Modular installations with EXCELON 72, 73, and 74 series can be made to suit particular applications


Technical Data

Fluid: Compressed air

Maximum pressure: 20 bar (300 psig)

Operating temperature*: -20° to 80°C (0° to 175°F)

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

Typical flow with 10 bar (150 psig) inlet pressure, 6,3 bar (90 psig) set pressure and a droop of 1 bar (15 psig) from set:
 105 dm³/s (220 scfm)

Gauge ports:

1/4 PTF with PTF main ports

Rc1/4 with ISO Rc main ports

Rc1/8 with ISO G main ports

Materials:

Body: Aluminum

Bonnet : Aluminum

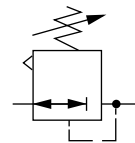
Valve: Brass

Elastomers: Nitrile

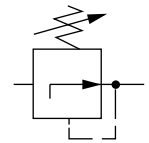
Bottom plug: Acetal

Ordering Information

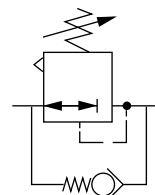
See *Ordering Information* on the following pages.

ISO Symbols


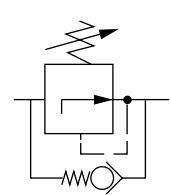
R74G Relieving



R74G Non Relieving



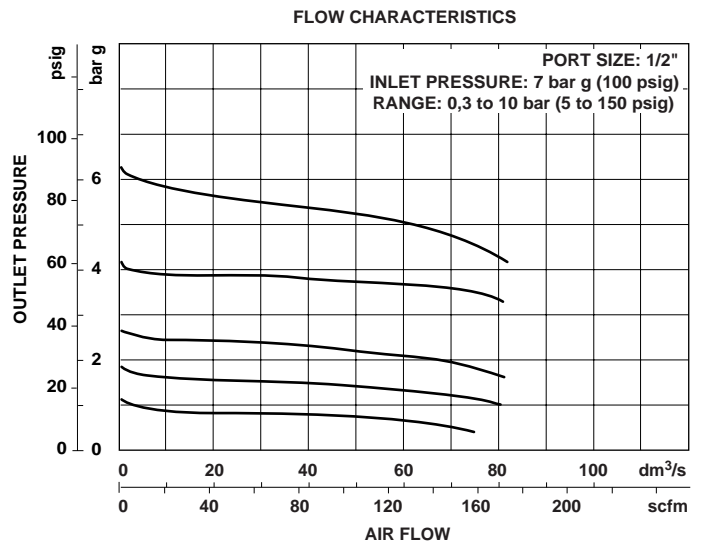
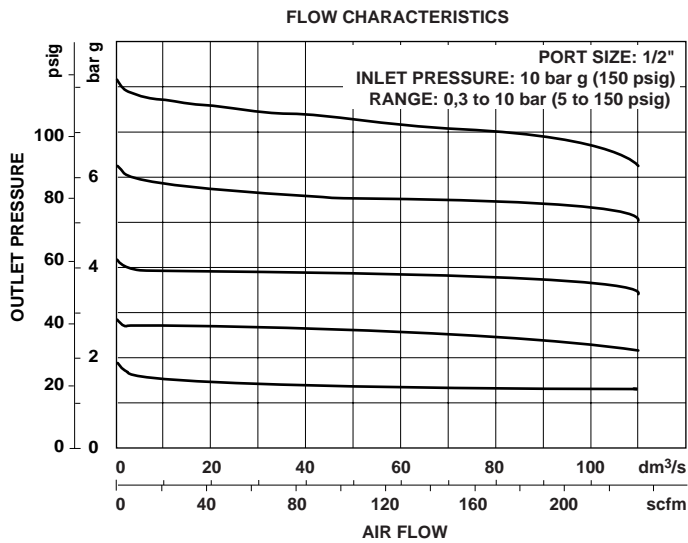
R74R Relieving



R74R Non Relieving



Typical Performance Characteristics



Ordering Information. Models listed include uni-directional flow, ISO G threads, knob adjustment, relieving diaphragm, and 0,3 to 10 bar (5 to 150 psig) outlet pressure adjustment range*.

Port Size	Model	Flow [†] dm ³ /s (scfm)	Weight kg (lb)
G3/8	R74G-3GK-RMN	98 (208)	0,82 (1.80)
G1/2	R74G-4GK-RMN	105 (220)	0,80 (1.77)
G3/4	R74G-6GK-RMN	105 (220)	0,78 (1.73)

† Typical flow with 10 bar (150 psig) inlet pressure, 6,3 bar (90 psig) set pressure and a droop of 1 bar (15 psig) from set.

Alternative Models

R 7 4 ★ - ★ ★ ★ - ★ ★ ★

Flow Type	Substitute
Uni-directional	G
Reverse	R

Port Size	Substitute
3/8"	3
1/2"	4
3/4"	6

Threads	Substitute
PTF	A
ISO Rc taper	B
ISO G parallel	G

Adjustment	Substitute
Knob	K
T-bar	T

Gauge	Substitute
With	G
Without	N

Outlet Pressure Adjustment Range*	Substitute
0,3 to 4 bar (5 to 60 psig)	F
0,3 to 10 bar (5 to 150 psig)	M
0,7 to 17 bar (10 to 250 psig)**	S

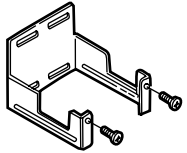
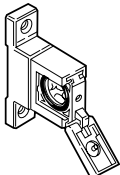

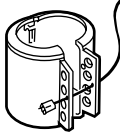
Diaphragm	Substitute
Relieving	R
Non relieving	N


* 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.

** Units with 17 bar (250 psig) outlet pressure range are available only with the T-bar adjustment; therefore substitute T at the 7th position and S at the 9th position.



Accessories

			
Wall Mounting Bracket	Quikclamp and Quikclamp Wall Bracket	Panel Nut	Tamper Resistant Cover & Seal Wire
4324-50	4314-52	4348-89	4355-51
			Seal Wire: 2117-01

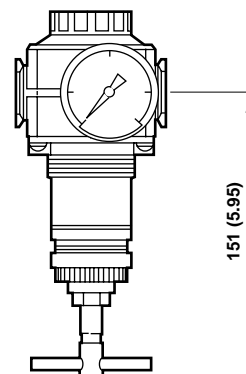
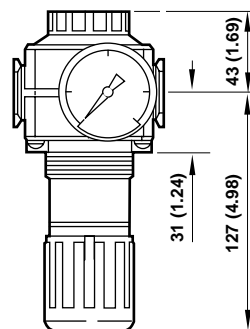
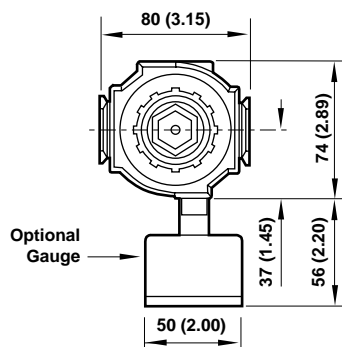
			
Ø 50 mm Pressure Gauge	R1/4 Connection	R1/8 Connection	1/4 PTF Connection
4 bar (60 psig)	18-013-266	18-013-011	18-013-208
10 bar (150 psig)	18-013-260	18-013-013	18-013-209
20 bar (300 psig)	18-013-267	18-013-014	18-013-210

†† Use padlock with shackle up to 8 mm (0.3") in diameter.

Dimensions mm (inches)

Panel mounting hole diameter: 52 mm (2.06")

Panel thickness: 2 to 6 mm (0.06" to 0.25")

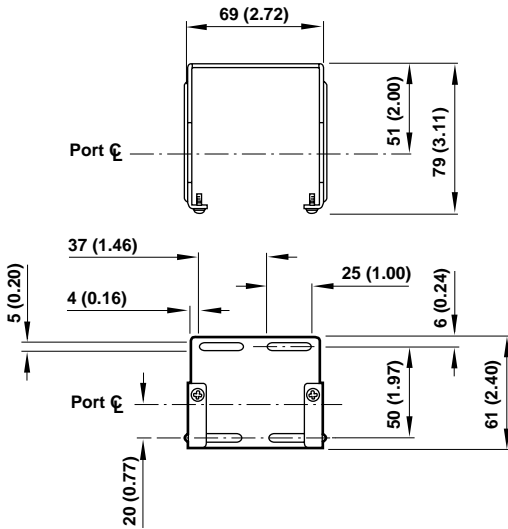




Bracket Mounting

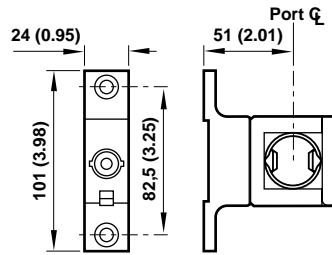
Mounting Bracket

Use 5 mm (3/16") screws to mount bracket to wall.



Quikclamp and Quikclamp Wall Bracket

Use 6 mm (7/32") screws to mount bracket to wall.



Bracket Kit Reference

Item	Part Number
Wall Bracket	4324-50
Quikclamp and Quikclamp Wall Bracket	4314-52

Service Kits

Item	Type	Part Number
Service kit	Relieving	4381-700
	Non relieving	4381-701

Service kit includes diaphragm assembly, valve assembly, valve spring, bottom plug o-ring.

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 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.

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.