EXCELON® Series 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 minimises 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**
- **Push to lock adjusting knob with tamper resistant accessory**
- **Optional reverse flow models available for use downstream of directional control valves**

Technical Data

Fluid: compressed air
Maximum Pressure: 20 bar
Operating Temperature*: -20° to 80°C
*Air supply must be dry enough to avoid ice formation at temperatures below 2°C.
Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and a droop of 1 bar from set:
105 dm^3/s
Gauge Ports:
1/4" PTF with PTF main ports
1/4" ISO Rc with ISO Rc main ports
1/8" ISO Rc with ISO G main ports
Materials:
Body: Aluminium
Bonnet : Aluminium
Valve: Brass
Elastomers: Nitrile
Bottom plug: Acetal

Ordering Information

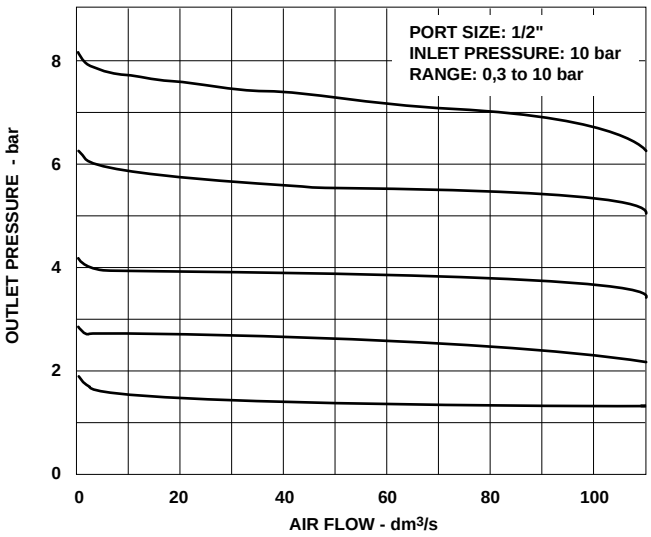
See *Ordering Information* on following pages.

ISO Symbols

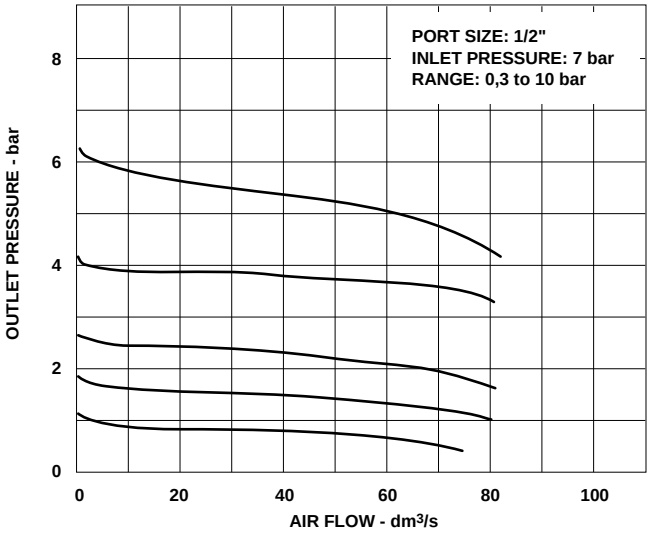
Relieving | Non relieving

Typical Performance Characteristics

FLOW CHARACTERISTICS



FLOW CHARACTERISTICS



Ordering Information. Models listed include unidirectional flow, ISO G parallel threads, knob adjustment, relieving diaphragm, 0,3 to 10 bar outlet pressure adjustment range.

Port Size	Model	Flow† dm³/s	Weight kg
G3/8	R74G-3GK-RMN	98	0,82
G1/2	R74G-4GK-RMN	105	0,80
G3/4	R74G-6GK-RMN	105	0,78

† Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and a droop of 1 bar from set.

Alternative Models

R 7 4 ★ - ★ ★ ★ - ★ ★ ★

Flow Type	Substitute
Standard	G
Reverse	R

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

Adjustment	Substitute
Knob	K
T-bar	T

Gauge	Substitute
With (∅ 50 mm)	G
Without	N

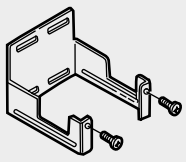
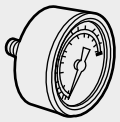
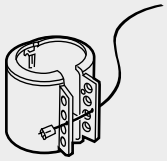
Outlet Pressure Adjustment Range*	Substitute
0,3 to 4 bar	F
0,3 to 10 bar	M
0,7 to 17 bar**	S

Diaphragm	Substitute
Relieving	R
Non relieving	N

* Regulator 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.

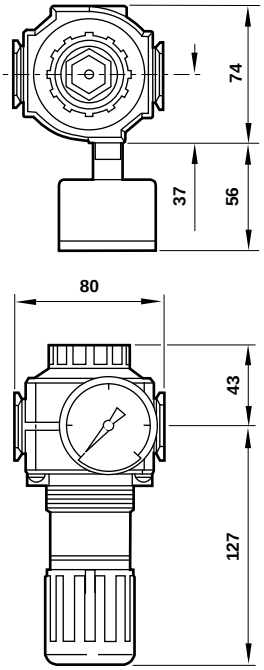
** Units with 17 bar outlet pressure range are available only with the T-bar adjustment; therefore substitute ***T*** at the 7th position and ***S*** at the 12th position.

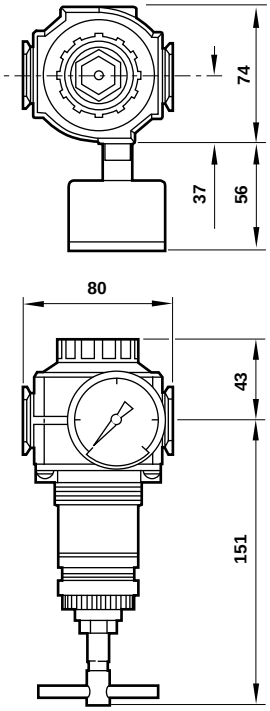
Accessories

 Wall Mounting Bracket	 ∅ 50 mm Gauge R1/8 Connection	 Metal Panel Nut	 Tamper Resistant Cover & Seal Wire††
4324-50	4 bar: 18-013-011	4348-89	4355-51
	10 bar: 18-013-013		
	25 bar: 18-013-014		Seal Wire: 2117-01

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

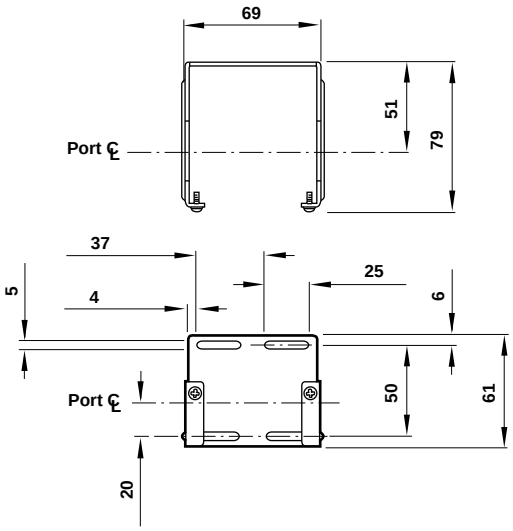
Panel mounting hole diameter:
52 mm
Panel thickness:
2 to 6 mm





Bracket Mounting

Use 5 mm screws to mount bracket to wall.



Bracket Kit Reference

Model	Part No.
All Models	4324-50

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.