B74G

Excelon® 74 Series Filter/Regulator
3/8", 1/2", 3/4" Port Sizes

- **EXCELON design allows in-line or modular installation**
- **Quick release bayonet bowl**
- **Highly visible, prismatic liquid level indicator lens**
- **Full flow gauge ports**
- **Balanced valve design minimizes effect of variation in the inlet pressure on the outlet pressure**
- **Modular installations with EXCELON 72, 73, and 74 series can be made to suit particular applications**

Ordering Information. Models listed include PTF threads, knob adjustment, automatic drain, metal bowl with liquid level indicator, 40 µm element, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range*, with gauge.

Main Port Size	Model Number	Flow† scfm (dm^3/s)	Weight lb (kg)
3/8"	B74G-3AK-AD3-RMG	163 (77)	2.62 (1.19)
1/2"	B74G-4AK-AD3-RMG	212 (100)	2.59 (1.17)
3/4"	B74G-6AK-AD3-RMG	212 (100)	2.55 (1.16)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

Alternative Models

B 7 4 G - ★ ★ ★ - ★ ★ ★ - ★ ★ ★

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

Drain	Substitute
Automatic	A
Manual, 1/4 turn	Q

Gauge	Substitute
With	G
Without	N

Outlet Pressure Adjustment Range*	Substitute
5 to 60 psig (0.3 to 4 bar)	F
5 to 150 psig(0.3 to 10 bar)	M
10 to 250 psig (0.7 to 17 bar)**	S

Diaphragm	Substitute
Relieving	R
Non relieving	N

Element	Substitute
5 µm	1
25 µm	2
40 µm	3

Bowl	Substitute
Metal with liquid level indicator	D
Transparent with guard	P

* 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.

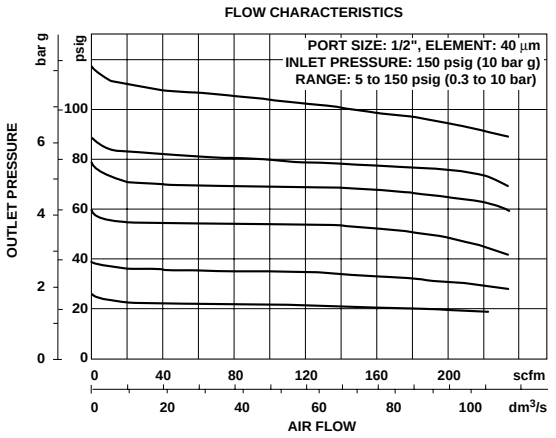
** Units with 250 psig (17 bar) outlet pressure range are available only with the T-bar adjustment; therefore substitute ***T*** at the 7th digit and ***S*** at the 12th position.

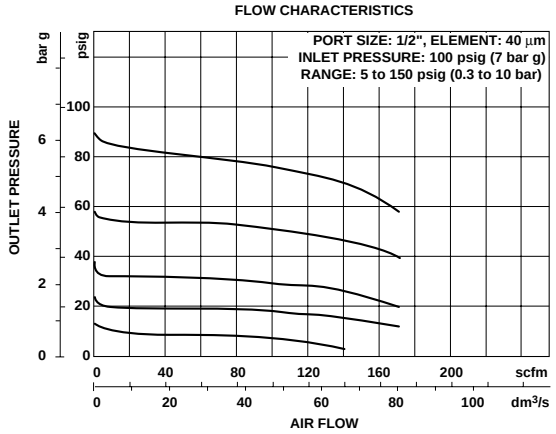
See Section ALE-25 for Accessories

Technical Data

Fluid: Compressed air
Maximum pressure:
Transparent bowl: 150 psig (10 bar)
Metal bowl: 250 psig (17 bar)
Operating temperature*:
Transparent bowl: -30° to 125°F (-34° to 50°C)
Metal bowl: -30° to 175°F (-34° to 80°C)
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Particle removal: 5, 25 or 40 µm filter element
Air quality: Within ISO 8573-1, Class 3 and Class 5 (particulates)
Typical flow with 150 psig (10 bar) inlet pressure, 6.3 (90 psig) set pressure and a droop of 15 psig (1 bar) from set: 212 scfm (100 dm^3/s)
Manual drain connection: Will fit 1/8-27 and 1/8-28 pipe thread
Automatic drain connection: Will fit 1/8-27 and 1/8-28 pipe thread
Automatic drain operating conditions (float operated):
Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
Minimum air flow required to close drain: 2 scfm (1 dm^3/s)
Manual operation: Depress pin inside drain outlet to drain bowl
Nominal bowl size: 7 fluid ounce(0.2 liter)
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
Bowl
Transparent: Polycarbonate with steel bowl guard
Metal: Aluminum
Metal bowl liquid level indicator lens: Transparent nylon
Element: Sintered plastic
Elastomers: Neoprene and Nitrile

Typical Performance Characteristics



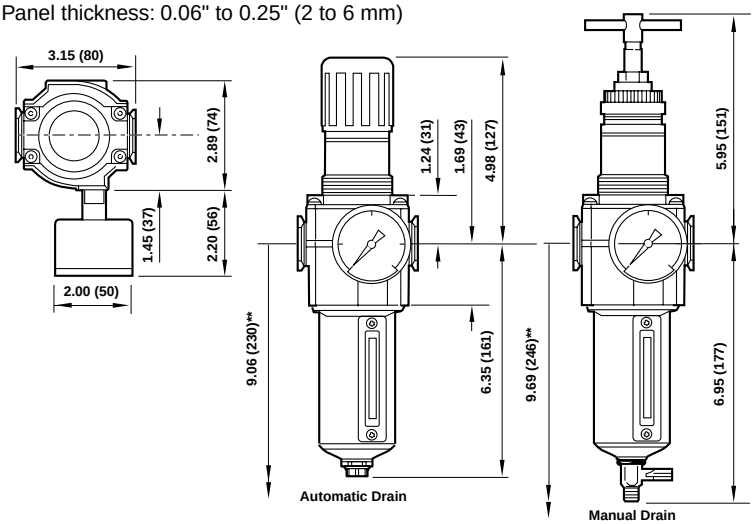


Service Kits

Item	Type	Part Number
Service kit	Relieving	4383-700
	Non relieving	4383-701
Replacement elements	5 µm	4338-04
	25 µm	4338-07
	40 µm	4338-05
Liquid level lens kit	Prismatic	4380-050
Replacement drains	Automatic (1/8 NPT outlet)	3000-10
	Manual quarter turn	619-50

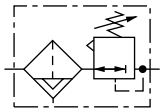
Service kit includes diaphragm assembly, valve assembly, valve spring, louvre o-ring, bowl o-ring, drain seal.

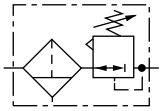
Panel mounting hole diameter: 2.06" (52 mm)
Panel thickness: 0.06" to 0.25" (2 to 6 mm)

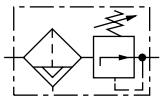


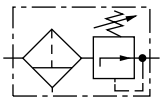
** Minimum clearance to remove bowl.

ISO Symbols


Automatic Drain, Relieving


Manual Drain, Relieving


Automatic Drain, Non Relieving


Manual Drain, Non Relieving