

Excelon® modular system R72G, R73G, R74G Pressure regulators

- 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



Technical data

Fluid:

Compressed air, neutral gases
NOTE: Contact technical support for use with other media.

Maximum pressure:

300 psig (20 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)
(72) -30° to 150°F

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

Materials

R72G

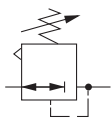
Body: zinc
Bonnet: acetal (Zinc on 250 psi model)
Elastomers: nitrile
Bottom plug: acetal

Valve: polypropylene and TPV
R73G, R74G

Body: aluminum
Bonnet: (73) zinc, (74) aluminum
Elastomers: nitrile
Bottom plug: acetal
Valve: polypropylene and TPV

Ordering information

Models listed include uni-directional flow, PTF threads, knob adjustment, relieving diaphragm, 5 to 150 psig (0.3 to 10 bar) outlet pressure adjustment range*, with gauge.

ISO Symbol	Port Size	Model	Flow** scfm (dm³/s)	Weight lb (kg)
 R7*G Relieving	1/4"	R72G-2AK-RMG	70 (33)	0.79 (0.36)
	1/4"	R73G-2AK-RMG	91 (43)	1.36 (0.6)
	3/8"	R73G-3AK-RMG	144 (68)	1.36 (0.6)
	3/8"	R74G-3AK-RMG	208 (98)	1.80 (0.82)
	1/2"	R74G-4AK-RMG	220 (105)	1.77 (0.80)
	3/4"	R74G-6AK-RMG	220 (105)	1.73 (0.78)

† 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.

Options selector

R7★G-★★★★-R★★★

Series	Substitute	Gauge	Substitute
72	2	With	G
73	3	Without	N
74	4		
Port size	Substitute	Outlet press adj range*	Substitute
1/4" (72, 73)	2	5 to 30 psig (0.4 to 2 bar) (72)	C
3/8" (72, 73, 74)	3	5 to 60 psig (0.4 to 4 bar)	F
1/2" (73, 74)	4	5 to 150 psig (0.4 to 10 bar)	M
3/4" (74)	6	10 to 250 psig (0.6 to 17 bar)**	S
Threads	Substitute	Adjustment	Substitute
PTF	A	Knob	K
ISO G parallel	G	T-bar	T

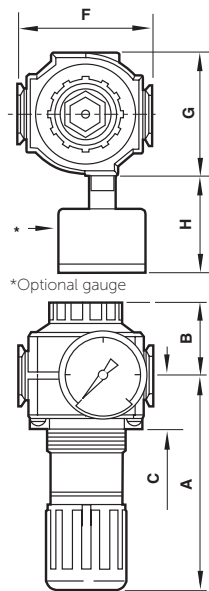
*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

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

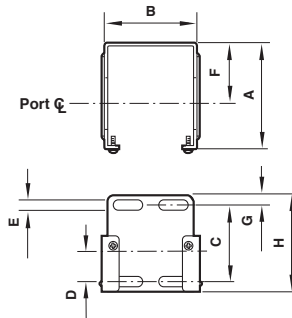
Accessories

	Wall mounting bracket*	Neck mounting bracket	Gauge 0 ... 160 psig	Panel nut	Tamper resistant cover and seal wire	Pipe adapters (quantity of 1) (NPT)	Quikclamp® (quantity of 1)	Quikclamp® and wall bracket (quantity of 1)	Service kit
R72G	4224-50	74316-50	18-013-212	4248-89	4255-51	4215-02 (1/4) 4215-03 (3/8)	4214-51	4214-52	4381-500
R73G	4424-50	4461-50	18-013-209	5191-88	4455-51	4315-01 (1/4) 4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4381-600
R74G	4324-50	4368-51	18-013-209	4348-89	4355-51	4315-02 (3/8) 4315-03 (1/2) 4315-04 (3/4)	4314-51	4314-52	4381-700

* Bracket kit does not include wall mounting screws.



Mounting bracket

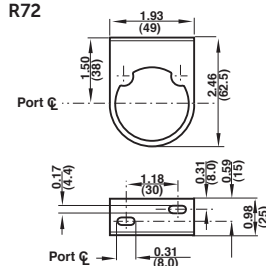


Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
73	2.64	2.36	1.89	0.75	0.28	1.50	0.24	2.40
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40

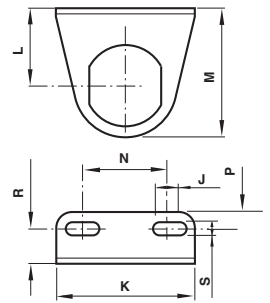
Series	A	B	C	F	G	H	Panel Ø	Panel depth
72	2.87	1.30	1.02	1.97	1.89	1.38	1.57	0 to .16
73	3.78	1.54	1.22	2.68	2.44	2.20	1.89	.07 to .25
74	5.00	1.69	1.22	3.15	2.91	2.20	2.05	.07 to .25

Neck mounting brackets

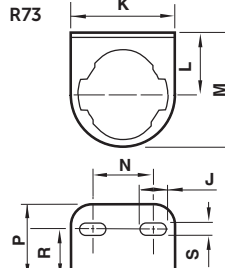
R72



R74

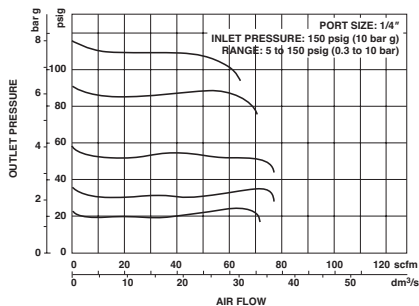


R73

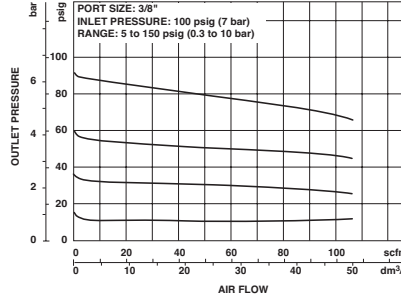


Series	J	K	L	M	N	P	R	S	T	V
72	0.31	1.93	1.50	2.50	1.18	0.94	—	0.17	0.31	0.59
73	0.67	2.52	1.50	2.76	1.50	1.50	0.98	0.28	—	—
74	0.94	3.50	2.05	3.39	2.20	1.38	0.91	0.28	—	—

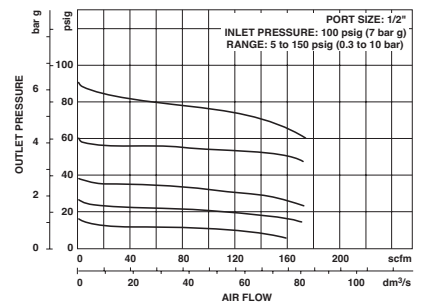
R72 FLOW CHARACTERISTICS



R73 FLOW CHARACTERISTICS



R74 FLOW CHARACTERISTICS



Dimensions in inches (mm)