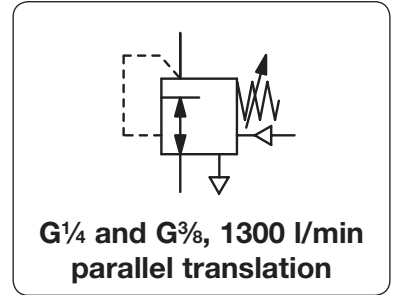


Description	Signal-operated regulator designed to provide outlet pressure which is the sum of the input signal pressure plus a preset bias. As an option, the relay can start with bias range -0.3 bar / -4 psi. The relay can also be used as a differential pressure regulator.	
Media	compressed air or non-corrosive gases	
Supply pressure	max. 17 bar	
Pilot pressure	max. 10 bar, pilot port G $\frac{1}{4}$	
Accuracy	response sensitivity: < 1 mbar	
Air consumption	without constant bleed	
Relieving function	relieving	
Relief capacity	110 l/min at 1.5 bar outlet and 0.35 bar overpressure above setpoint	
Gauge port	G $\frac{1}{4}$ on both sides of the body, screw plugs supplied	
Temperature range	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F	
Material	Body: aluminium die-cast	Inner valve: brass
	Elastomer: NBR/Buna-N	



Dimensions			Flow rate		Connection	Supply	Positive	Pressure	Order
A	B	C	m 3 /h*1	l/min*1	thread	recommended	bias	range	number
mm	mm	mm			G	bar	bar	bar	

Positive bias relay									supply pressure max. 17 bar, relieving, without constant bleed, transmission ratio 1:1	R650
68	170	16	72	1200	G $\frac{1}{4}$	5	0... 1	0... 10	R650-02C	
						5	0... 2		R650-02D	
						8	0... 4		R650-02E	
						15	0... 10		R650-02F	
68	170	16	78	1300	G $\frac{3}{8}$	5	0... 1	0... 10	R650-03C	
						5	0... 2		R650-03D	
						8	0... 4		R650-03E	
						15	0... 10		R650-03F	

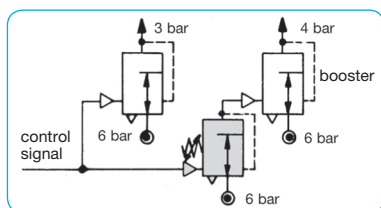
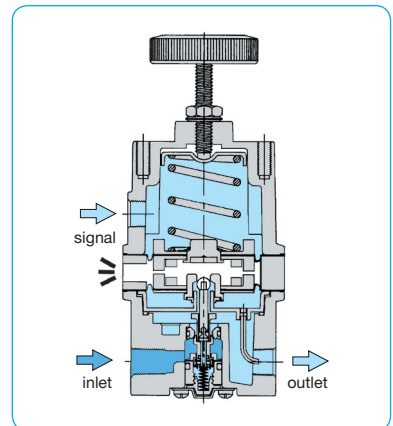


Special options, add the appropriate letter

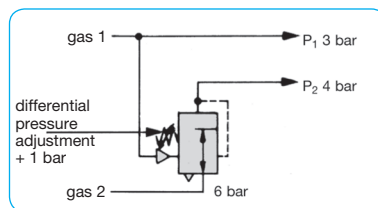
negative bias	factory-set to -0.3 bar	R650-0..Y
NPT	connection thread	R650-0..N
tapped exhaust	G $\frac{1}{8}$ connection thread	R650-0..X12
tamper-proof cap	above spindle, total height 174 mm	R650-0..T

Accessories, enclosed

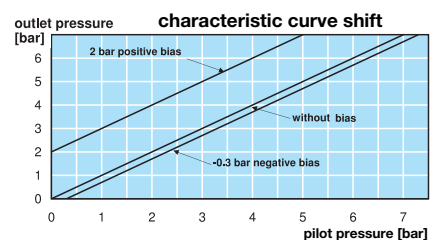
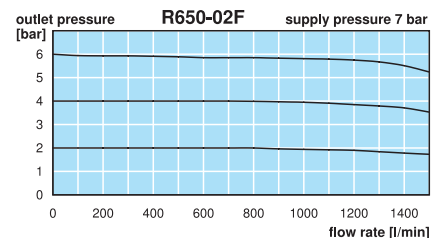
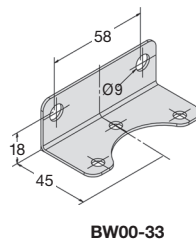
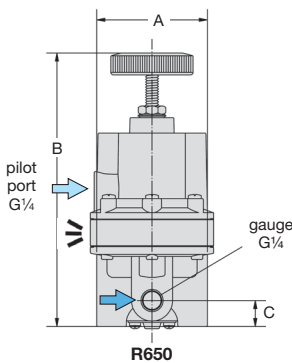
pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	MA5002-..*2
mounting bracket	made of steel	BW00-33



Example 1: constant differential pressure of 1 bar at high flow



Example 2: constant differential pressure of 1 bar



*1 at 7 bar supply pressure and 6 bar outlet pressure
*2 01 = 0...1 bar, 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R650-02C