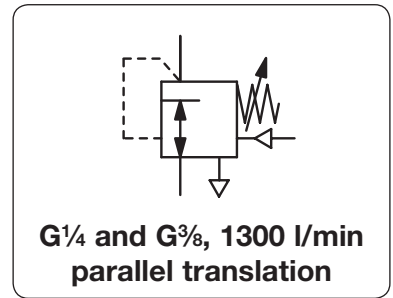


<b>Description</b>	Signal-operated regulator designed to provide outlet pressure which is the sum of the input signal pressure plus a preset bias. As an option, the relay can start with bias range -0.3 bar / -4 psi. The relay can also be used as a differential pressure regulator.	
<b>Media</b>	compressed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



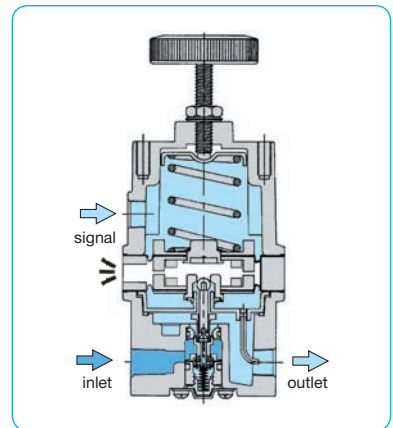
Dimensions			Flow rate	Connection thread	Supply recommended	Positive bias	Pressure range	Order number
A	B	C	m $^3$ /h*1	l/min*1	G	bar	bar	

Positive bias relay									supply pressure max. 17 bar, relieving, without constant bleed, transmission ratio 1:1	R651
68	170	16	72	1200	G $\frac{1}{4}$	5	0... 1	0... 10	R651-02C	
						5	0... 2		R651-02D	
						8	0... 4		R651-02E	
						15	0... 10		R651-02F	
68	170	16	78	1300	G $\frac{3}{8}$	5	0... 1	0... 10	R651-03C	
						5	0... 2		R651-03D	
						8	0... 4		R651-03E	
						15	0... 10		R651-03F	



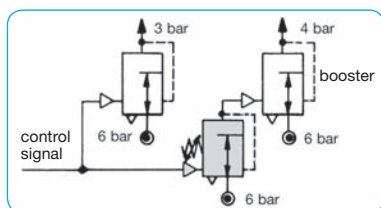
## Special options, add the appropriate letter

<b>negative bias</b>	factory-set to -0.3 bar	R651-0..Y
<b>NPT</b>	connection thread	R651-0..N
<b>tapped exhaust</b>	G $\frac{1}{8}$ connection thread	R651-0..X12
<b>tamper-proof cap</b>	above spindle, total height 174 mm	R651-0..T

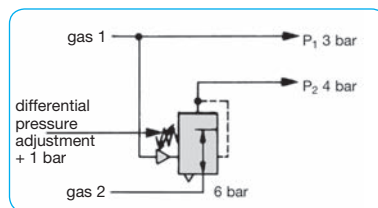


## Accessories, enclosed

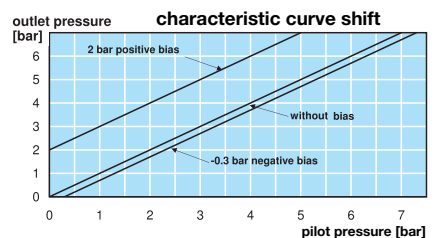
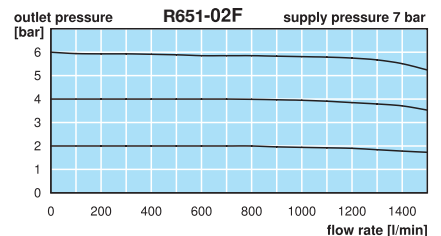
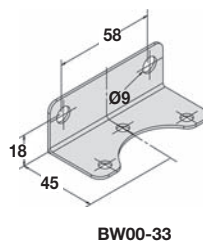
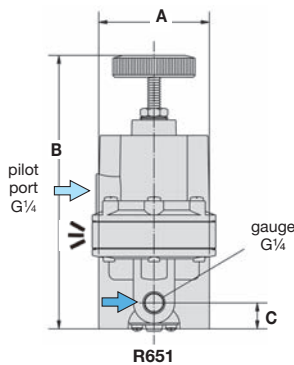
<b>pressure gauge</b>	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	MA5002-..*2
<b>mounting bracket</b>	made of steel	BW00-33



**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