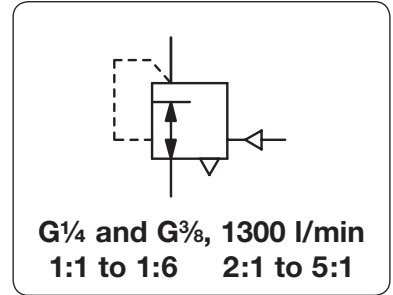


<b>Description</b>	The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. The pilot pressure has no constant bleed and shows the same function as a spring in a common regulator: generating counter pressure on the diaphragm.
<b>Media</b>	compressed air or non-corrosive gases
<b>Supply pressure</b>	max. 17 bar
<b>Pilot pressure</b>	max. 10 bar at 1:1 ratio, 5 bar at 1:2, 3.3 bar at 1:3, 2.5 bar at 1:4, 1.7 bar at 1:6
<b>Accuracy</b>	at supply pressure variation of 7 bar: < 7 mbar pressure deviation
<b>Air consumption</b>	max. 3 l/min, subject to outlet pressure
<b>Relief capacity</b>	310 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 80 °C / 32 °F to 176 °F, NBR, for appropriately conditioned compr. air down to -40 °C / -40 °F 0 °C to 90 °C / 32 °F to 194 °F, FKM, for appropriately conditioned compr. air down to -40 °C / -40 °F
<b>Material</b>	Body: aluminium die-cast Inner valve: brass and zinc-plated steel Elastomer: NBR/Buna-N



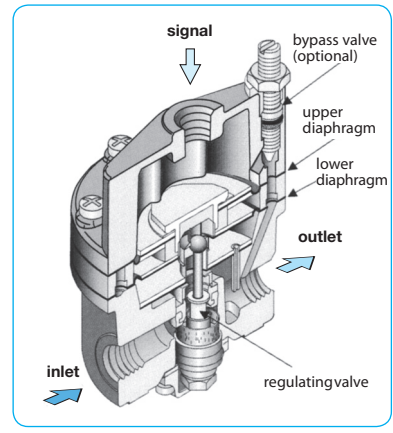
Dimensions			K <sub>v</sub>	Flow rate	Connection	Pilot pressure	Transmission ratio	Order number
A	B	C	value	m <sup>3</sup> /h*1	thread	max. bar	signal : outlet	
mm	mm	mm	(m <sup>3</sup> /h)	l/min*1	G			

Volume booster			with transmission ratio, supply pressure max. 17 bar, relieving, with constant bleed, pressure range 0...10 bar				R208		
76	98	24	0.7	78	1300	G $\frac{1}{4}$	10	1 : 1	R208-02I
							5.0	1 : 2	R208-02K
							3.3	1 : 3	R208-02L
76	110	24	0.7	78	1300	G $\frac{1}{4}$	2.5	1 : 4	R208-02M
							2.0	1 : 5	R208-02N
							1.7	1 : 6	R208-02O
76	98	24	0.7	78	1300	G $\frac{1}{4}$	10	2 : 1	R208-02R
								3 : 1	R208-02S
76	110	24	0.7	78	1300	G $\frac{1}{4}$	10	4 : 1	R208-02T
								5 : 1	R208-02U



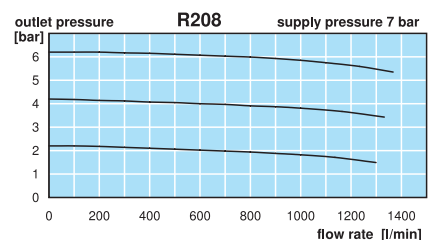
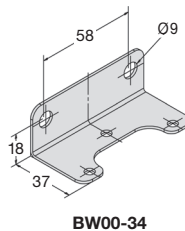
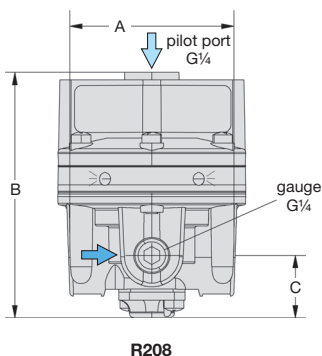
### Special options, add the appropriate letter

G $\frac{3}{8}$	connection thread	R208-03 .
NPT	connection thread	R208-02 . N
non-relieving*3	without relieving function	R208-02 . K
tapped exhaust*3	connection thread G $\frac{1}{4}$	R208-02 . X12
bypass with restrictor	between control chamber and outlet,	1:1 only
negative bias*3	preset to -0.24 bar, adjustable by 30 mbar	R208-02 . Y
silicone elastomer	supply pressure: max. 5 bar,	1:1 only
FKM elastomer		R208-02 . V



### Accessories, enclosed

pressure gauge	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	MA5002-..*2
mounting bracket	made of steel	BW00-34



\*1 at 7 bar supply pressure and 1.4 bar outlet pressure  
\*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar

\*3 only for 1:1, 1:2, 1:3, 2:1 and 3:1