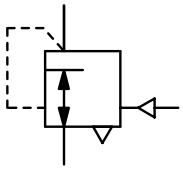
PRECISION VOLUME BOOSTER WITH TRANSMISSION RATIO R208

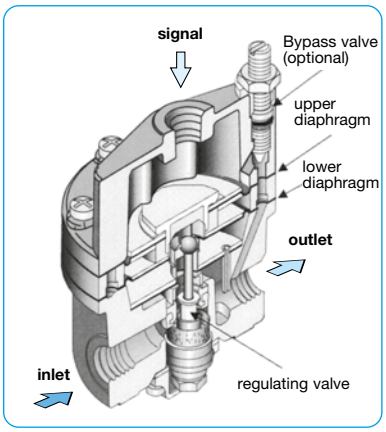
Description	The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. The pilot pressure has no constant bleed and shows the same function as a spring in a common regulator: generating counter pressure on the diaphragm.
Media	compressed air or non-corrosive gases
Supply pressure	max. 17 bar
Pilot pressure	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 **Pilot port** G¼
Accuracy	at supply pressure variation of 7 bar: < 7 mbar pressure deviation transmission error: 1% from 1:1 to 1:3 ratio, 2% at greater or inverse transmission response sensitivity: 1 mbar at 1:1, 2 mbar at 1:2, 3 mbar at 1:3 and at inverse transmission
Air consumption	max. 3 l/min, subject to outlet pressure **Relieving function** relieving
Relief capacity	310 l/min at 1.5 bar outlet and 0.35 bar overpressure above setpoint
Gauge port	G¼ on both sides of the body, screw plugs supplied **Mounting position** any
Temperature range	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
Material	Body: aluminium die-cast Elastomer: NBR/Buna-N, optionally FKM Inner valve: brass and zinc-plated steel



G¼ to G½, 1300 l/min
1:1 up to 1:6, 2:1 up to 5:1

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Pilot pressure max. bar	Transmission ratio signal : outlet	Order number D*
Booster with transmission ratio, relieving, with constant bleed, supply pressure max. 17 bar, pressure range 0...10 bar									**R208**
76	98	24	0.7	78	1300	G¼	10	1 : 1	**R208-02I**
							5.0	1 : 2	**R208-02K**
							3.3	1 : 3	**R208-02L**
76	110	24	0.7	78	1300	G¼	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	G¼	10	2 : 1	**R208-02R**
								3 : 1	**R208-02S**
76	110	24	0.7	78	1300	G¼	10	4 : 1	**R208-02T**
								5 : 1	**R208-02U**

R208



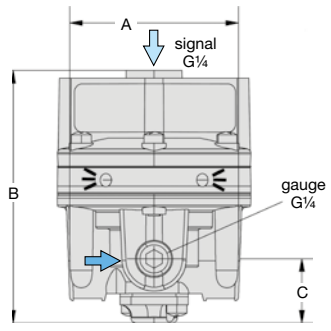
cross section

Special options, add the appropriate letter

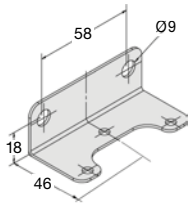
G⅜	connection thread		R208-0**3**.
G½	connection thread		R208-0**4**.
NPT	connection thread		R208-0**.N**
non-relieving*3	without relieving function		R208-0**.K**
tapped exhaust*3	connection thread G¼		R208-0**.X12**
bypass with restrictor*4	between control chamber and outlet	1:1 only	R208-0**.X16**
negative bias*3	preset to -0,24 bar, adjustable by 30 mbar		R208-0**.Y**
silicone elastomer	supply pressure max. 5 bar	1:1 only	R208-0**.A**
FKM elastomer			R208-0**.V**

Accessories, enclosed B*

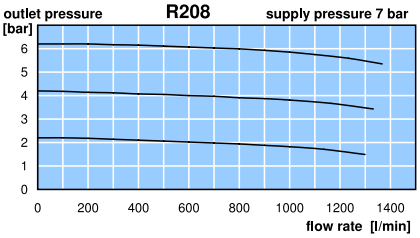
pressure gauge	Ø 50 mm, 0...*2 bar, G¼	**MA5002-..*2**
gauge connector	made of brass, adapter ¼″ NPT to G¼ female	**AM-06**
mounting bracket	made of steel	**BW00-34**



R208



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
*4 not compatible with option Y

* Product group

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R208-02I