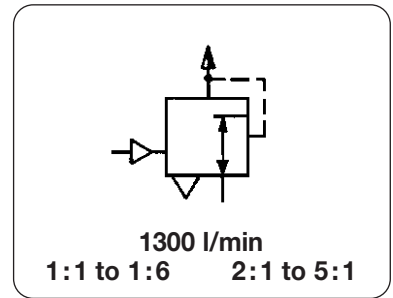
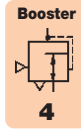


<b>Description</b>	Precision volume booster designed to convert a low-flow control signal to a higher flow outlet. With diaphragm ratio configuration to meet a broad range of signal-to-outlet requirements. Signal-to-outlet pressure available in several ratios. Ideal applications: rapid valves, cylinder movements and air/oil hydraulic systems.
<b>Supply pressure</b>	max. 17 bar / 250 psi
<b>Exhaust capacity</b>	310 l/min / 11 scfm at 0.3 bar downstream pressure above setpoint output pressure of 1.5 bar/20 psi
<b>Outlet pressure</b>	max. 10 bar
<b>Ratio failure</b>	1% at ratio 1:1 to 1:3, 2% accuracy for higher or inverse ratio
<b>Sensitivity</b>	1 mbar at 1:1, 2 mbar at 1:2, 3 mbar at 1:3 and at inverse ratio
<b>Air consumption</b>	0 - 3 l/min depending on outlet pressure
<b>Supply accuracy</b>	if the supply pressure changes by about 7 bar, the outlet pressure changes by <7 mbar
<b>Temperature range</b>	-20 °C to 70 °C / 32 °F to 160 °F operating temperature with NBR
<b>Materials</b>	Body: aluminum die-casting Diaphragm: NBR and Dacron Inner valve: brass and zink-plated steel



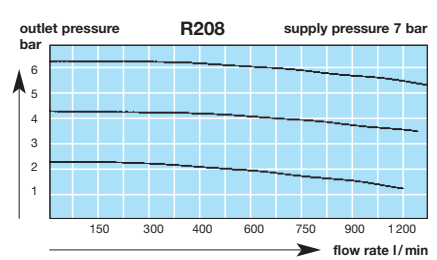
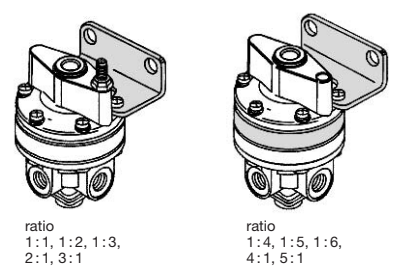
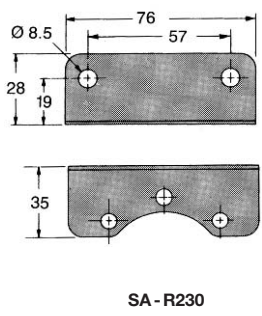
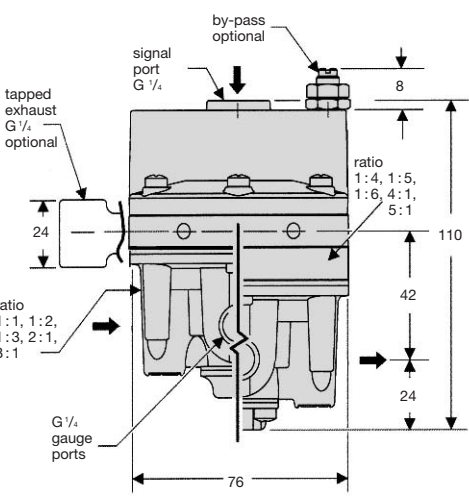
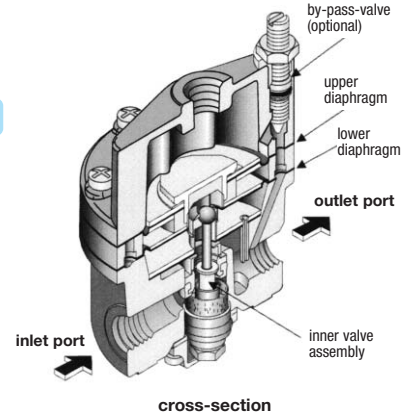
Dimensions	Exhaust	Connection	Flow	Signal	Ratio	Order
height	capacity	thread	rate	pressure	Signal: outlet	number
mm	l/min*2	G	l/min*1	max. bar		

Prec. Volume Booster	supply pressure max. 17 bar pressure range 0-10 bar	aluminium housing, NBR K <sub>v</sub> -value 0.7 (m <sup>3</sup> /h)	R208
98 76 310 G 1/4 1300 10	1:1	<b>R208-02I</b>	
98 76 310 5	1:2	<b>R208-02K</b>	
98 76 310 3.3	1:3	<b>R208-02L</b>	
110 76 210 2.5	1:4	<b>R208-02M</b>	
110 76 210 2.0	1:5	<b>R208-02N</b>	
110 76 210 1.7	1:6	<b>R208-02O</b>	
98 76 310 G 1/4 1300 10	2:1	<b>R208-02R</b>	
98 76 310 10	3:1	<b>R208-02S</b>	
110 76 210 10	4:1	<b>R208-02T</b>	
110 76 210 10	5:1	<b>R208-02U</b>	



## Special options add the appropriate letter

<b>G<sup>3</sup>/<sub>8</sub> connection</b>		<b>O3</b>	<b>R208-03.</b>
<b>NPT thread</b>		<b>N</b>	<b>R208-02. N</b>
<b>tapped exhaust</b>		<b>E</b>	<b>R208-02. E</b>
<b>non-relieving</b>	without exhaust	<b>K</b>	<b>R208-02. K</b>
<b>negative bias</b>	from 240 mbar, re-adjustable by about 30 mbar	<b>Y</b>	<b>R208-02. Y</b>
<b>by-pass + restrictor</b>	between control chamber and outlet**3	<b>B</b>	<b>R208-02. B</b>
<b>silicone elastomer</b>	P <sub>1</sub> : max. 5 bar	<b>A</b>	<b>R208-02. A</b>
<b>Viton elastomer</b>	up to 90 °C/200 °F	<b>V</b>	<b>R208-02. V</b>
<b>mounting bracket</b>	SA-R230	<b>X</b>	<b>R208-02. X</b>



\*1 at 7 bar supply pressure and 1.5 bar outlet pressure  
 \*\* downstream pressure 0.35 bar above setpoint outlet pressure of 1.5 bar  
 \*\*3 for safeguarding against vibrations at positioners  
 \*\* also 1:2, 1:3, 2:1 and 3:1

**Order example:**  
**R208-02I**