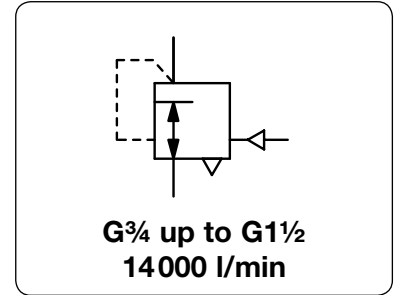


# Precision Volume Booster with High Volume Flow

R500

<b>Description</b>	The volume booster amplifies the volume flow at a 1:1 ratio of pilot pressure to outlet pressure. R500-06/08 features a diaphragm-driven piston. compressed air or non-corrosive gases	
<b>Media</b>		
<b>Supply pressure</b>	max. 25 bar	
<b>Pilot pressure</b>	max. 16 bar, pilot port G $\frac{1}{4}$	
<b>Air consumption</b>	without constant bleed	
<b>Relieving function</b>	relieving	
<b>Relief capacity</b>	300 l/min at 6.5 bar outlet and 0.7 bar overpressure above setpoint	
<b>Response sensitivity</b>	20 mbar	
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body	
<b>Mounting position</b>	any	
<b>Temperature range</b>	-10 °C to 80 °C / 14 °F to 176 °F	
<b>Material</b>	Body: aluminium die-cast Elastomer: NBR/Buna-N	Inner valve: brass and aluminium



Dimensions			K <sub>v</sub> value	Flow rate		Connection thread	Supply pressure max. bar	Pressure range bar	Order number
A	B	C		m <sup>3</sup> /h	m <sup>3</sup> /h*1				

Volume booster			supply pressure max. 25 bar, relieving, without constant bleed, transmission ratio 1:1					R500	
117	113	48	4.2	420	7 000	G $\frac{3}{4}$	25	0...16	R500-06
			7.2	720	12 000	G1	25	0...16	R500-08
118.5	132	57.5	8.4	840	14 000	G1 $\frac{1}{2}$	25	0...16	R500-12

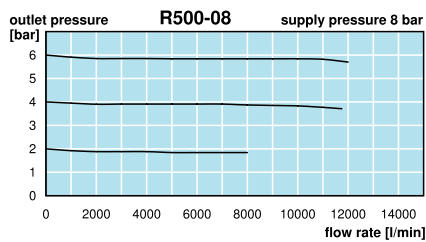
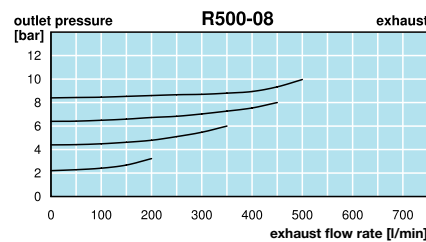
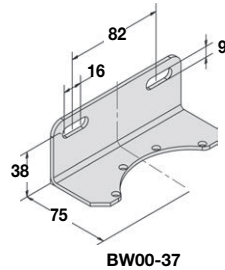
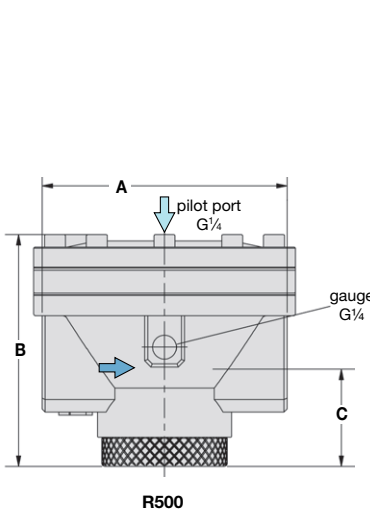
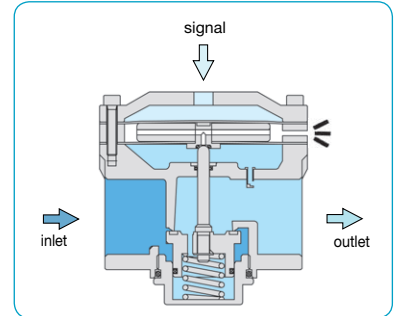
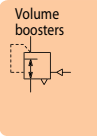
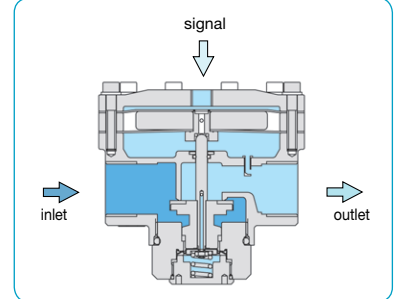
## Special options, add the appropriate letter

for oxygen	specially cleaned	G1 only	R500-0815
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## Accessories, enclosed

pressure gauge	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	MA6302-*2
mounting bracket	made of steel	BW00-37



\*1 at 8 bar supply pressure and 6 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



**Order example:**  
**R500-06**  
China website: [www.duray-control.cn](http://www.duray-control.cn)