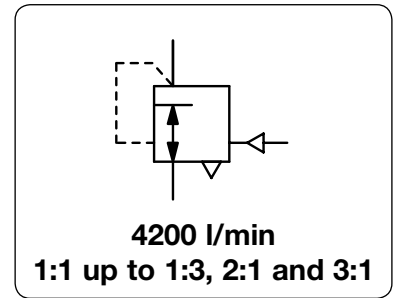


# Precision Volume Booster with High Flow

R460

<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. This force is compensated by the outlet pressure on the diaphragm's bottom side. The ratio of pilot pressure to outlet pressure depends on the size of the operating diaphragms.		
<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, 2:1 and 3:1 ratio, 5 bar at 1:2,	3.3 bar at 1:3,	pilot port G $\frac{1}{4}$
<b>Accuracy</b>	at supply pressure variation of 7 bar: < 7 mbar pressure deviation response sensitivity: 2.5 mbar		
<b>Air consumption</b>	without constant bleed	<b>Relieving function</b>	relieving
<b>Relief capacity</b>	1100 l/min at 0.35 bar overpressure above setpoint	<b>Mounting position</b>	any
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, screw plugs supplied	<b>Elastomer:</b>	NBR/Buna-N
<b>Temperature range</b>	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned		
<b>Material</b>	Body: aluminium die-cast Inner valve: brass and aluminium		



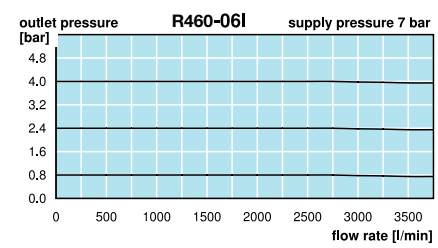
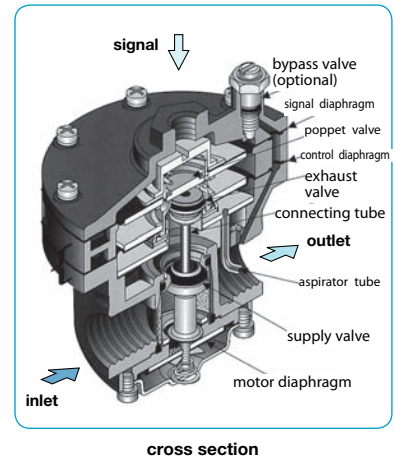
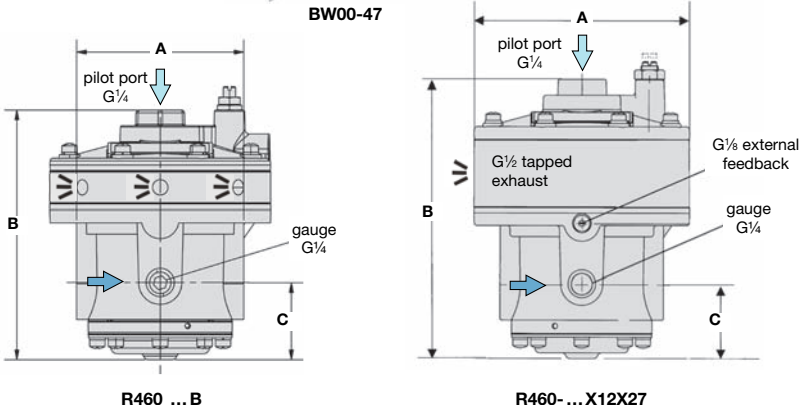
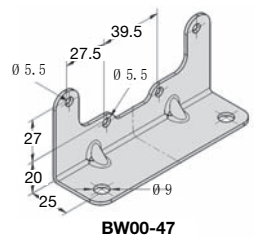
Dimensions			K <sub>v</sub>	Flow rate	Connection	Signal pressure	Transmission ratio	Order number
A	B	C	value	m <sup>3</sup> /h*1	thread	max. bar	signal : outlet	
mm	mm	mm	(m <sup>3</sup> /h)	l/min*1	G			

Volume booster								with transmission ratio, supply pressure max. 17 bar, relieving, pressure range 0...10 bar	R460
87	129	40	2.16	240	4000	G $\frac{1}{2}$	10	1 : 1	R460-04I
							5.0	1 : 2	R460-04K
							3.3	1 : 3	R460-04L
							10	2 : 1	R460-04M
							10	3 : 1	R460-04N
87	129	40	2.16	252	4200	G $\frac{3}{4}$	10	1 : 1	R460-06I
							5.0	1 : 2	R460-06K
							3.3	1 : 3	R460-06L
							10	2 : 1	R460-06M
							10	3 : 1	R460-06N



Special options, add the appropriate letter		
<b>NPT</b>	connection thread	R460-0..N
<b>tapped exhaust</b>	connection thread G $\frac{1}{2}$ , total height 148 mm	R460-0..X12
<b>bypass with restrictor</b>	from control chamber to outlet, 1:1 only	R460-0..X16
<b>external feedback</b>	with connection thread G $\frac{1}{8}$	R460-0..X27

Accessories, enclosed		
<b>pressure gauge</b>	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	MA6302-..*2
<b>mounting bracket</b>	made of steel	BW00-47



\*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



**Order example:**  
**R460-04I**  
China website: [www.duray-control.cn](http://www.duray-control.cn)