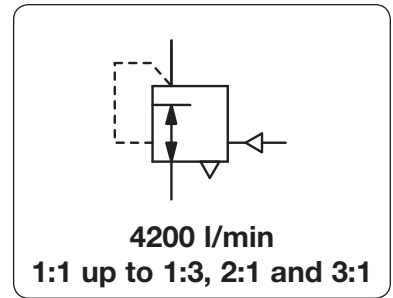


<b>Description</b>	The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. The pilot pressure has no constant bleed and shows the same function as a spring in a common regulator: generating counter pressure on the diaphragm. This force is compensated by the outlet 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>Temperature range</b>	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F		
<b>Material</b>	Body: aluminium die-cast Inner valve: brass and aluminium	Elastomer:	NBR/Buna-N, optionally FKM



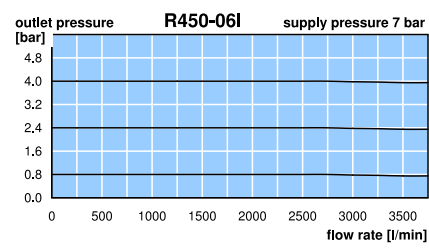
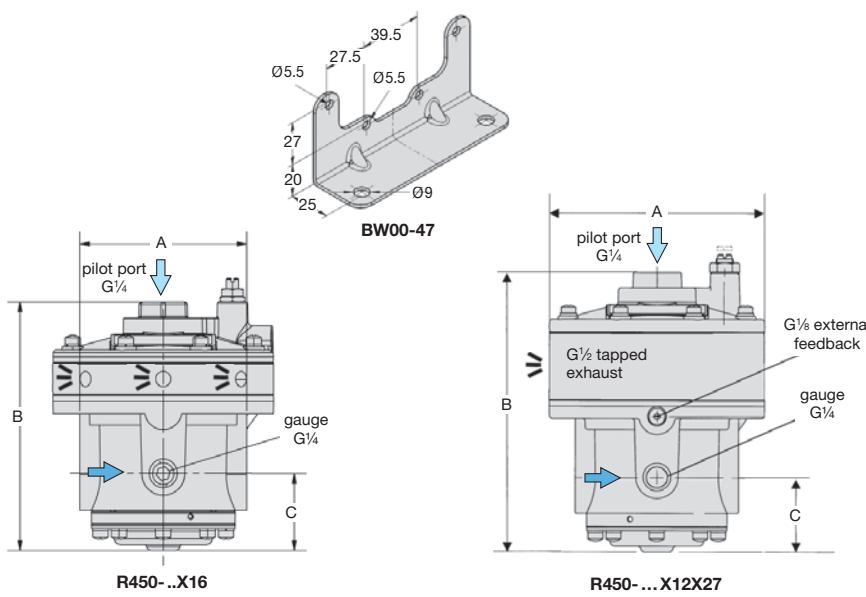
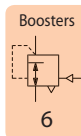
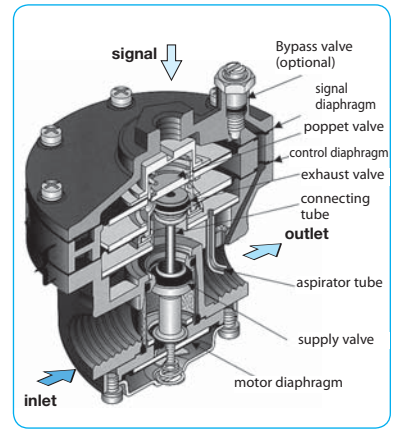
Dimensions			K <sub>v</sub> -value	Flow rate	Connection thread	Signal pressure	Transmission ratio	Order number
A	B	C	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1	G	max. bar	signal : outlet	

Volume booster									with transmission ratio, supply pressure max. 17 bar relieving, with constant bleed, pressure range 0...10 bar	R450
87	129	40	2.16	240	4000	G $\frac{1}{2}$	10	1 : 1	R450-04I	
							5.0	1 : 2	R450-04K	
							3.3	1 : 3	R450-04L	
							10	2 : 1	R450-04M	
							10	3 : 1	R450-04N	
87	129	40	2.16	252	4200	G $\frac{3}{4}$	10	1 : 1	R450-06I	
							5.0	1 : 2	R450-06K	
							3.3	1 : 3	R450-06L	
							10	2 : 1	R450-06M	
							10	3 : 1	R450-06N	



Special options, add the appropriate letter		
<b>NPT</b>	connection thread	R450-0..N
<b>tapped exhaust</b>	G $\frac{1}{2}$ connection thread, total height 148 mm	R450-0..X12
<b>bypass with restrictor</b>	from control chamber to outlet, 1:1 only	R450-0..X16
<b>external feedback</b>	with connection thread G $\frac{1}{8}$	R450-0..X27
<b>FKM elastomer</b>		R450-0..V

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