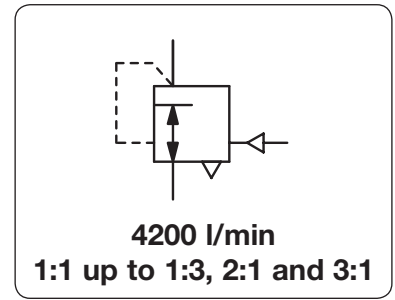


Precision Volume Booster with High Flow

R450

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. 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.		
Media	compressed air or non-corrosive gases	Supply pressure	max. 17 bar
Pilot pressure	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 $\frac{1}{4}$
Accuracy	at supply pressure variation of 7 bar: < 7 mbar pressure deviation response sensitivity: 2.5 mbar		
Air consumption	without constant bleed	Relieving function	relieving
Relief capacity	1100 l/min at 0.35 bar overpressure above setpoint	Mounting position	any
Gauge port	G $\frac{1}{4}$ on both sides of the body, screw plugs supplied	Elastomer:	NBR/Buna-N
Temperature range	0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F		
Material	Body: aluminium die-cast Inner valve: brass and aluminium		



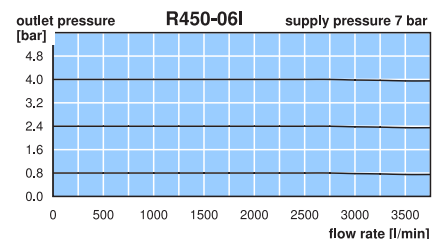
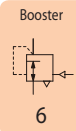
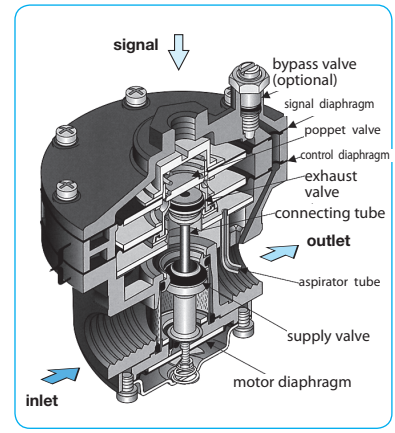
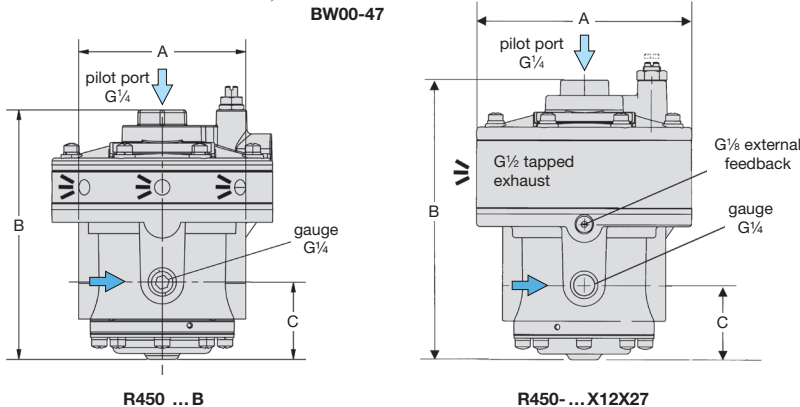
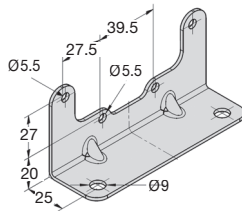
Dimensions			K _v	Flow rate	Connection	Signal	Transmission	Order
A	B	C	value	m ³ /h*1	thread	pressure	ratio	number
mm	mm	mm	(m ³ /h)	l/min*1	G	max. bar	signal : outlet	

Volume booster								with transmission ratio, supply pressure max. 17 bar, relieving, 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		
NPT	connection thread	R450-0..N
tapped exhaust	connection thread G $\frac{1}{2}$, total height 148 mm	R450-0..X12
bypass with restrictor	from control chamber to outlet, 1:1 only	R450-0..X16
external feedback	with connection thread G $\frac{1}{8}$	R450-0..X27

Accessories, enclosed		
pressure gauge	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	MA6302-..*2
mounting bracket	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

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R450-04I