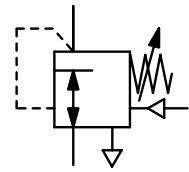


Description	Pilot-operated volume booster with positive bias designed to supply outlet pressure equal to signal pressure plus an adjustable preset spring constant. With very high forward and reverse flow characteristics and excellent sensitivity. If requested the system pressure can also manually be adjusted up to 6 bar adding to the pilot pressure.	
Media	oil-free and 5 µm filtered compressed air or non-corrosive gases	
Supply pressure	max. 16 bar	
Pilot pressure	max. 10 bar, accordingly lower in the case of manual pre-pressure setting	Pilot port G $\frac{1}{8}$
Accuracy	at supply pressure change from 2 bar to 7 bar: < 6 mbar pressure deviation at flow rate change from 0 l/min to 20 l/min: < 20 mbar pressure deviation response sensitivity: < 2 mbar	
Air consumption	1.5 l/min at P ₁ = 5 bar, 2 l/min at P ₁ = 7 bar, 4 l/min at P ₁ = 10 bar, < 1% of volume flow relieving	
Relieving function	700 l/min at 6 bar outlet and 0.35 bar overpressure above setpoint	
Relief capacity	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	Mounting position any
Gauge port	0 °C to 60 °C / 32 °F to 140 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F	
Temperature range	Body: zinc die-cast	Elastomer: NBR/Buna-N
Material		



G $\frac{1}{4}$ up to G $\frac{1}{2}$, 4500 l/min parallel translation

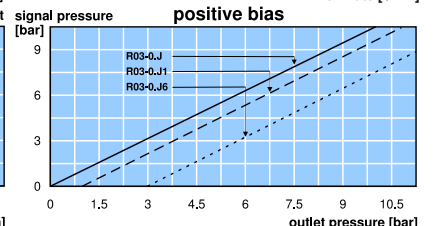
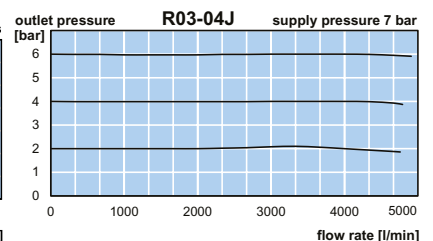
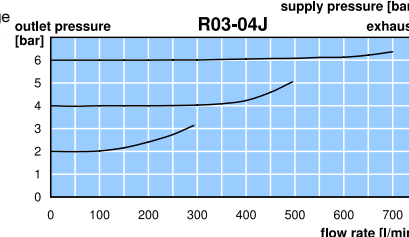
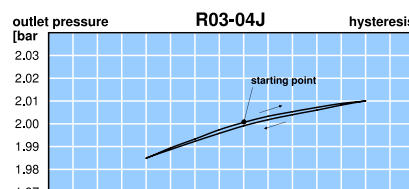
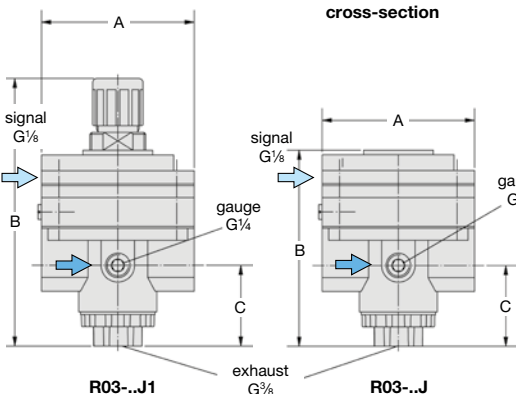
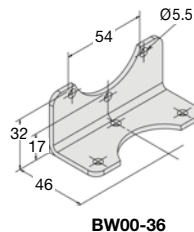
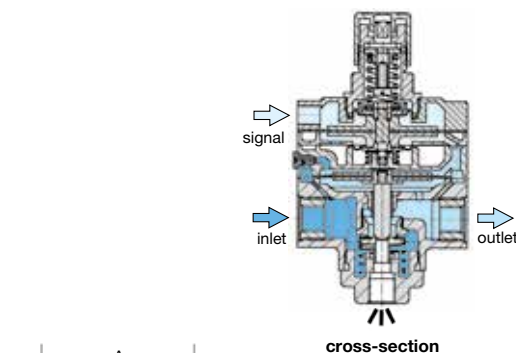
Dimensions			K _v -value	Flow rate	Connection thread	Positive bias	Pressure range	Order number	
A	B	C							
mm	mm	mm	(m ³ /h)	m ³ /h*1	l/min*1	G	bar		

Volume booster						supply pressure max. 16 bar, with constant bleed, tapped exhaust, transmission ratio 1:1			R03-J
82	106	41	2.0	198	3300	G¼*3	without	0.05...10	R03-02J
			2.3	228	3800	G⅝*3			R03-03J
			2.7	270	4500	G½			R03-04J

Positive bias booster						supply pressure max. 16 bar, with constant bleed, tapped exhaust, transmission ratio 1:1			R03-J .
82	142	41	2.0	198	3300	G¼*3	0...1 bar	0.05...10	R03-02J1
			2.3	228	3800	G⅜*3			R03-03J1
			2.7	270	4500	G½			R03-04J1
82	180	41	2.0	198	3300	G¼*3	0...6 bar	0.05...10	R03-02J6
			2.3	228	3800	G⅜*3			R03-03J6
			2.7	270	4500	G½			R03-04J6

Accessories, enclosed					
pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$				
mounting nut	made of plastic				
mounting bracket	made of steel				

for R03-...J1 **MA5002-...*2**
M30x1,5K
BW00-36



*1 at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 02 = 0...2.5 bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar
*3 standard unit G $\frac{1}{2}$ reduced to smaller threads by fittings

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

* Product group



Order example:
R03-02J