

# PRECISION VOLUME BOOSTER WITH HIGH VOLUME FLOW

R200 / R201

**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. The bias spring at booster R200 generates a positive shift of the pressure range between pilot pressure and outlet pressure. Booster R201 with great relief capacity is a combination of two R200 boosters. When the output pressure increases above the signal pressure, the diaphragm assembly moves upward to close the supply valve and open the exhaust valve. Excess output pressure exhausts through the exhaust port until it reaches the setpoint.

**Media** compressed air or non-corrosive gases

**Pilot pressure** max. 10 bar, pilot port G $\frac{1}{4}$  at R200;  $\frac{1}{4}$ " NPT at R201

**Accuracy** at supply pressure variation of 7 bar: < 20 mbar pressure deviation

**Air consumption** without constant bleed

**Relief capacity** 1800 l/min at 0.3 bar overpressure above setpoint at R200, 9000 l/min at R201

**Gauge port** G $\frac{1}{4}$  on both sides of the body at R200;  $\frac{1}{4}$ " NPT at R201

**Temperature range** 0 °C to 90 °C / 32 °F to 194 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F

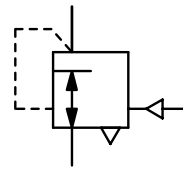
**Material** Body: aluminium die-cast Elastomer: NBR/Buna-N-/Dacron, optionally FKM Inner valve: stainless steel, cadmium-plated steel and brass

**Supply pressure** max. 17 bar

**Response sensitivity** 30 mbar

**Relieving function** relieving, optionally non-relieving

**Mounting position** any



G1 and G1½, 1½" NPT  
30 000 l/min

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

Booster w. high volume flow						supply pressure max. 17 bar, relieving, without constant bleed, transmission ratio 1:1	R200		
141	198	57	11.4	1680	28000	G1	17	0...10	R200-08I
141	198	57	12.2	1800	30000	G1½	17	0...10	R200-12I

Booster w. high exhaust capacity						supply pressure max. 17 bar, relieving, without constant bleed, transmission ratio 1:1	R201		
250	240	57	12.2	1800	30000	1½" NPT	17	0...10	R201-12I



R200



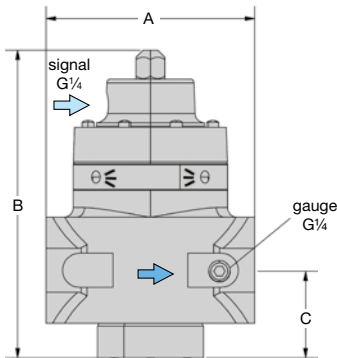
R201

## Special options, add the appropriate letter

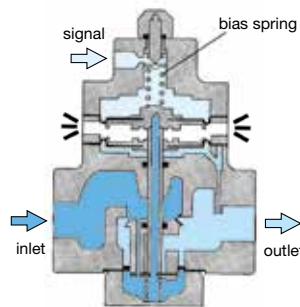
NPT	connection thread	for R200	R200-..IN
non-relieving	without relieving function	for R200	R200-..IK
tapped exhaust	connection thread G $\frac{3}{8}$	for R200	R200-..IX12
FKM elastomer		for R200	R200-..IV

## Accessories, enclosed

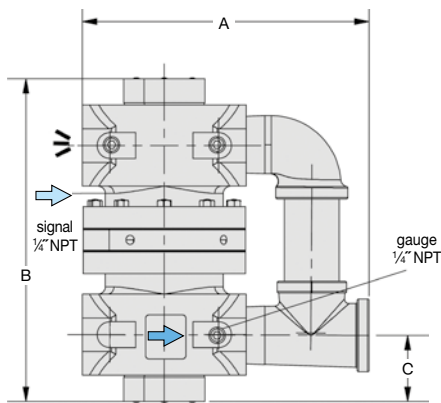
pressure gauge	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	MA6302-..*2
adapter	$\frac{1}{4}$ " NPT male / G $\frac{1}{4}$ female	VP-0202N
mounting bracket	made of steel	BW00-41



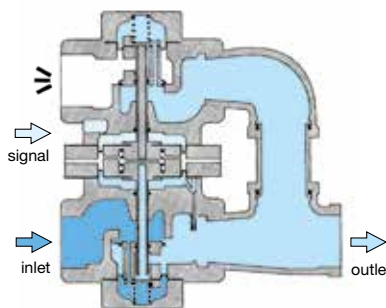
R200



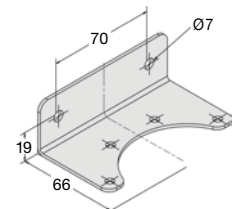
cross-section



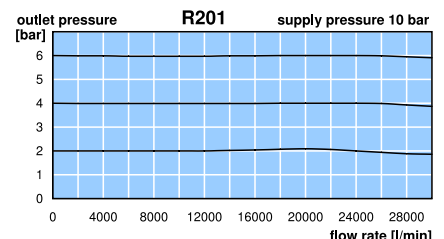
R201



cross-section



BW00-41



\*1 at 10 bar supply pressure and 2.8 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:  
R200-08I