## **Precision Volume Booster with Transmission Ratio**

The volume booster with transmission ratio amplifies the outlet pressure at a 1:1 up to 1:6 ratio by a pneumatic pilot pressure, which has no constant bleed. That signal pressure has 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.

compressed air or non-corrosive gases

Supply pressure

max. 17 bar Description

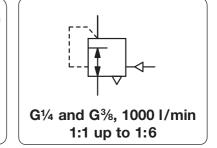
Media Pilot pressure max. 10 bar at 1:1 ratio, 5 bar at 1:2, 3.3 bar at 1:3, 1.7 bar at 1:6, pilot port G1/4 at supply variation of 3.5 bar: < 7 mbar 1.1, < 10 mbar at 1:2, < 21 mbar at 1:3, < 41 mbar at 1:6 response sensitivity: < 2 mbar 1:1, < 3 mbar at 1:2, < 17 mbar at 1:3, < 23 mbar at 1:6 max. 3 l/min, subject to outlet pressure Accuracy

Air consumption

Relieving function relieving

Relief capacity 170 l/min at 1.5 bar outlet and 0.7 bar overpressure above setpoint

on both sides of the body, thread equal to regulator thread **Mounting position** any 0 °C to 70 °C / 32 °F to 158 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F Gauge port Temperature range Material Elastomer: NBR/Buna-N Inner valve: brass and stainless steel



(	Dir	Dimensions K <sub>v</sub> -		K <sub>v</sub> -	Flow	Connection	Signal	Transmission	Order
	Α	В	С	value	rate	thread	pressure	ratio	number
	mm	mm	mm	(m³/h)	m³/h*1 l/min*1	G	max. bar	signal : outlet	

Boo	Booster				with transmission ratio, supply pressure max. 17 bar, relieving, with constant bleed, pressure range 010 bar			R750	
68	102	16	0.5	60	1 000	G1⁄4	10	1:1	R750-02I
							5.0	1:2	R750-02K
							3.3	1:3	R750-02C
							1.7	1:6	R750-02M
68	102	16	0.5	60	1 000	G¾	10	1:1	R750-03I
							5.0	1:2	R750-03K
							3.3	1:3	R750-03C
							1.7	1:6	R750-03M



R750

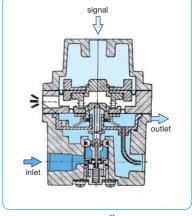
## Special options, add the appropriate letter

negative bias	factory-set to -0,3 bar	R750-0 <b>Y</b>
NPT	connection thread	R750-0 <b>N</b>
tapped exhaust	connection thread G1/4	R750-0 <b>X12</b>

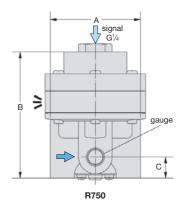


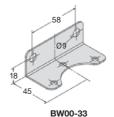
## **Accessories**

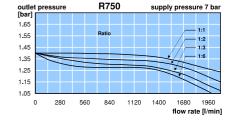
pressure gauge	Ø 50 mm, 0*2 bar, G1/4	MA5002*2
mounting bracket	made of steel	BW00-33

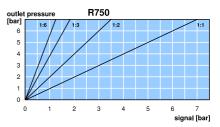


cross-section













<sup>\*1</sup> at 7 bar supply pressure and 1.4 bar outlet pressure

<sup>\*2 02 = 0...2.5</sup> bar, 04 = 0...4 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar