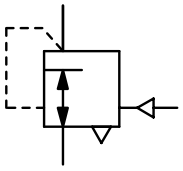
PRECISION VOLUME BOOSTER WITH TRANSMISSION RATIO R750

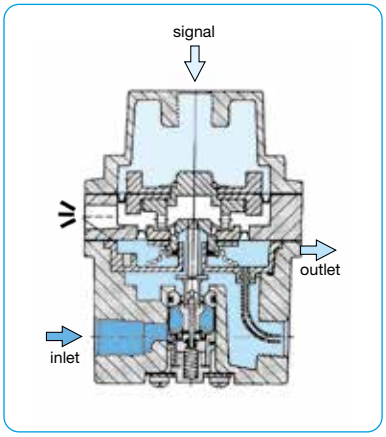
Description	The volume booster with transmission ratio amplifies the outlet pressure at a 1:1 up to 1:6 ratio by a pneumatic pilot pressure, which has no constant bleed. That signal pressure has the same function as a spring in a common regulator: generating counter pressure on the diaphragm. This force 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.
Media	compressed air or non-corrosive gases **Supply pressure** max. 17 bar
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 G¼
Accuracy	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
Air consumption	max. 3 l/min, subject to outlet pressure
Relieving function	relieving
Relief capacity	170 l/min at 1.5 bar outlet and 0.7 bar overpressure above setpoint
Gauge port	on both sides of the body, thread equal to regulator thread **Mounting position** any
Temperature range	0 °C to 70 °C / 32 °F to 158 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F
Material	Body: zinc die-cast Elastomer: NBR/Buna-N Inner valve: brass and stainless steel



G¼ and G⅜, 1000 l/min 1:1 up to 1:6

R750

Dimensions A mm	B mm	C mm	K_v-value (m^3/h)	Flow rate m^3/h*1	l/min*1	Connection thread G	Signal pressure max. bar	Transmission ratio signal : outlet	Order number
Booster with transmission ratio, relieving, with constant bleed, supply pressure max. 17 bar, pressure range 0...10 bar									**R750**
68	102	16	0.5	60	1000	G¼	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	1000	G⅜	10	1:1	**R750-03I**
							5.0	1:2	**R750-03K**
							3.3	1:3	**R750-03C**
							1.7	1:6	**R750-03M**
68	102	16	0,5	60	1000	G½	10	1:1	**R750-04I**
							5,0	1:2	**R750-04K**
							3,3	1:3	**R750-04C**
							1,7	1:6	**R750-04M**



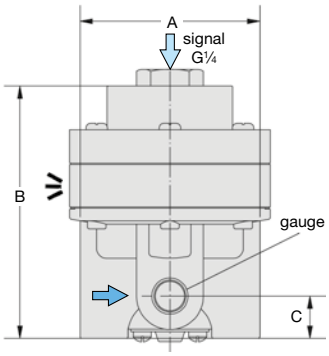
cross-section

Special options, add the appropriate letter

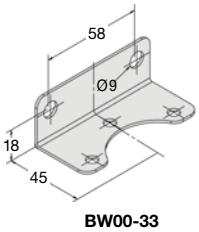
negative bias	factory-set to -0,3 bar	R750-0. .**Y**
NPT	connection thread	R750-0. .**N**
tapped exhaust	connection thread G¼	R750-0. .**X12**

Accessories, enclosed

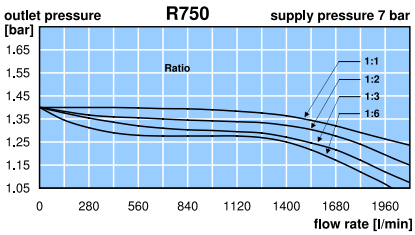
pressure gauge	Ø 50 mm, 0...*2 bar, G¼	**MA5002-..*2**
mounting bracket	made of steel	**BW00-33**

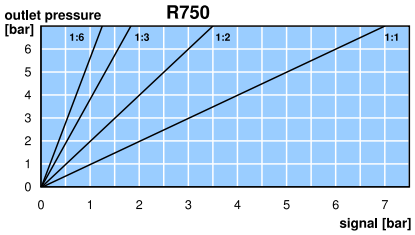


R750



BW00-33





*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

* Product group

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example: R750-02I