## 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 diaphragms 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, < response sensitivity: <2 mbar 1:1, < max. 3 l/min, subject to outlet pressure Accuracy 10 mbar at 1:2, < 21 mbar at 1:3, < 41 mbar at 1:6 3 mbar at 1:2, < 17 mbar at 1:3, < 23 mbar at 1:6

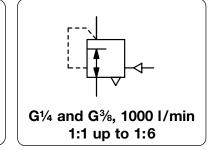
Air consumption

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

Body: zinc die-cast Elastomer: NBR/Buna-N Inner valve: brass and stainless steel



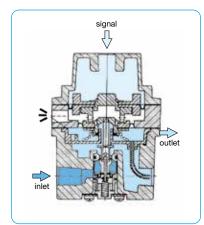
Dimensions		K <sub>v</sub> -	Flow	Connection	Signal	Transmission	Order		
Α	В	С	value	rate	thread	pressure	ratio	number	<b>D</b> *
mm	mm	mm	(m³/h)	m³/h*1 l/min*1	G	max. bar	signal : outlet		

Booster						nission ratio, with constant l	supply press	ure max. 17 bar, 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	1000	G%	10	1:1	R750-03I
00	102		0.0	00	1000	<b>4</b> 70	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 5,0	1:1 1:2	R750-04I R750-04K
							3,3	1:3	R750-04C
							1,7	1:6	R750-04M



## Special options, add the appropriate letter

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



Booster

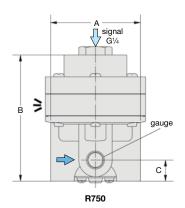
cross-section

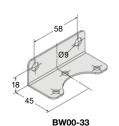
## Accessories, enclosed

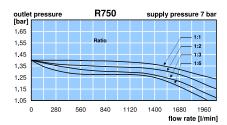
MA5002-..\*2 pressure gauge Ø 50 mm, 0 ... \*2 bar, G1/4 BW00-33 made of steel mounting bracket

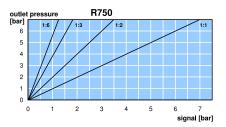


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Gauges: see chapter for measuring devices

\*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

PDF CAD www.aircom.net



\* Product group