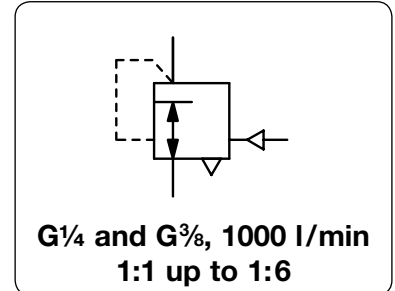


PRECISION VOLUME BOOSTER WITH TRANSMISSION RATIO

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		
Pilot pressure	max. 10 bar at 1:1 ratio,	5 bar at 1:2,	3.3 bar at 1:3,
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		
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
	Supply pressure	max. 17 bar	
			pilot port G $\frac{1}{4}$
	Mounting position	any	



Dimensions			K _v -value	Flow rate	Connection thread	Signal pressure	Transmission ratio	Order number
A	B	C	(m ³ /h)	m ³ /h*1	l/min*1	max. bar	signal : outlet	
mm	mm	mm						

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	G $\frac{1}{4}$	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 $\frac{3}{8}$	10	1:1	R750-03I
							5.0	1:2	R750-03K
							3.3	1:3	R750-03C
							1.7	1:6	R750-03M

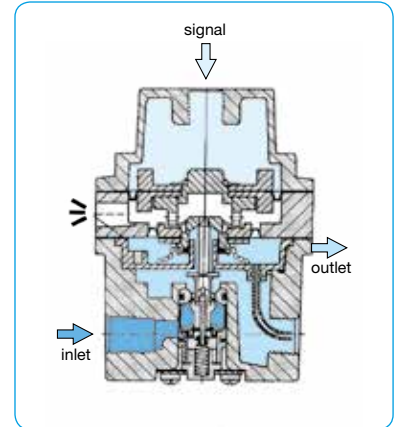


Special options, add the appropriate letter

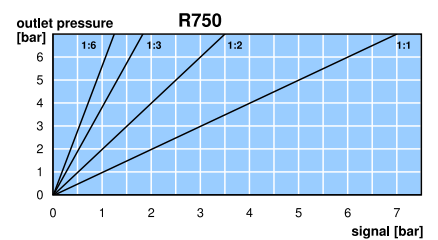
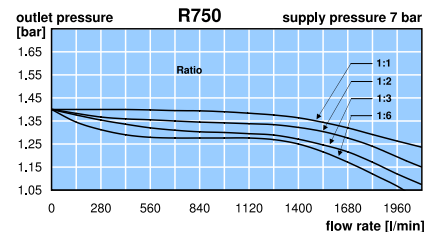
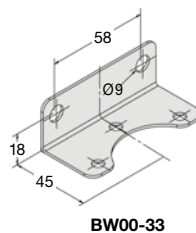
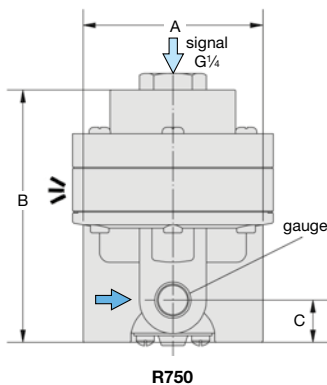
negative bias	factory-set to -0,3 bar	R750-0. .Y
NPT	connection thread	R750-0. .N
tapped exhaust	connection thread G $\frac{1}{4}$	R750-0. .X12

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	MA5002-...*2
mounting bracket	made of steel	BW00-33



Booster
6



*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

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

Order example:
R750-02I