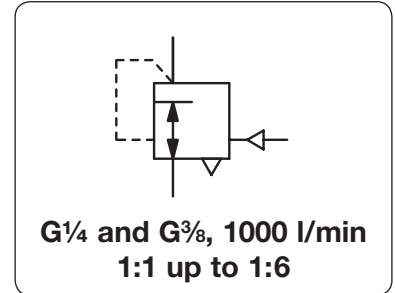


Description	The volume booster with transmission ratio amplifies the outlet pressure at a 1:1 up to 1:6 ratio by a pneumatic pilot pressure, which has no constant bleed. That signal pressure has the same function as a spring in a common regulator: generating counter pressure on the diaphragm. This force 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: < 70 mbar at 1:1, < 140 mbar at 1:2, < 270 mbar at 1:3, < 400 mbar at 1:6 response sensitivity: < 2 mbar at 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



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

Volume booster							with transmission ratio, supply pressure max. 17 bar, relieving, with constant bleed, pressure range 0...10 bar		R750
68	102	16	0.5	60	1000	G 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 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

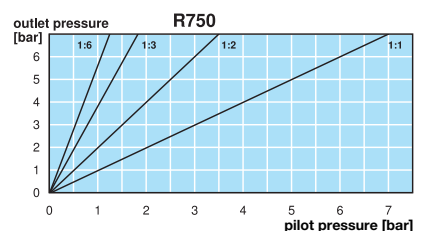
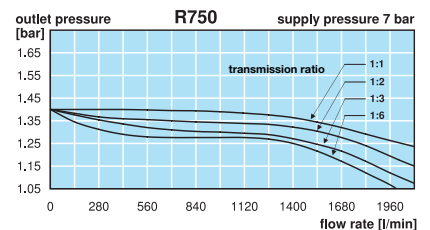
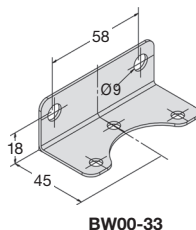
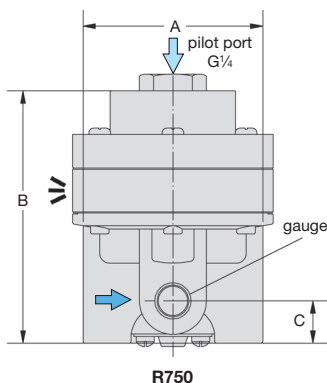
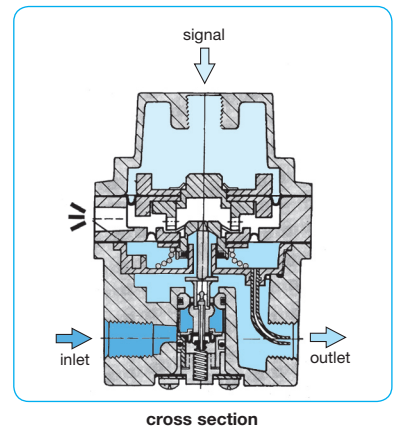


Special options, add the appropriate letter

negative bias	factory-set to -0.3 bar	R750-0. .Y
NPT	connection thread	R750-0. .N
tapped exhaust	G ¹ / ₄ connection thread	R750-0. .X12

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G ¹ / ₄	MA5002-..*2
mounting bracket	made of steel	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