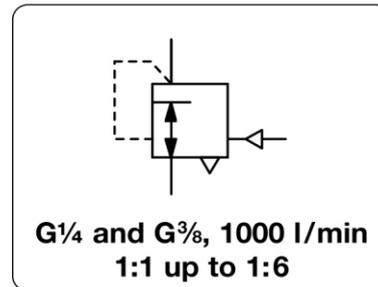


# R750 - Booster piloté en pression avec rapport d'amplification de 1:1 à 1:6, pour air comprimé ou gaz

<b>Description</b>	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.		
<b>Media</b>	compressed air or non-corrosive gases		
<b>Pilot pressure</b>	max. 10 bar at 1:1 ratio,	5 bar at 1:2,	3.3 bar at 1:3,
<b>Accuracy</b>	at supply variation of 3.5 bar: < 7 mbar 1:1, < 10 mbar 1:2, < 21 mbar 1:3, < 41 mbar 1:6 response sensitivity: < 2 mbar 1:1, < 3 mbar 1:2, < 17 mbar 1:3, < 23 mbar 1:6		
<b>Air consumption</b>	max. 3 l/min, subject to outlet pressure		
<b>Relieving function</b>	relieving		
<b>Relief capacity</b>	170 l/min at 1.5 bar outlet and 0.7 bar overpressure above setpoint		
<b>Gauge port</b>	on both sides of the body, thread equal to regulator thread		
<b>Temperature range</b>	0 °C to 70 °C / 32 °F to 158 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F		
<b>Material</b>	Body: zinc die-cast	Elastomer: NBR/Buna-N	Inner valve: brass and stainless steel

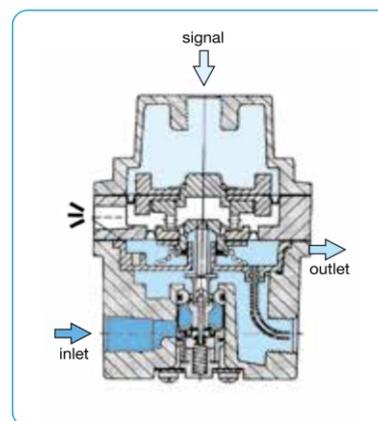


Dimensions			K <sub>v</sub> -value	Flow rate	Connection thread	Signal pressure	Transmission ratio	Order number
A	B	C						
mm	mm	mm	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1	l/min*1	G	max. bar	signal : outlet

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 <sup>1</sup> / <sub>4</sub>	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 <sup>3</sup> / <sub>8</sub>	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	G <sup>1</sup> / <sub>2</sub>	10	1:1	R750-04I
							5.0	1:2	R750-04K
							3.3	1:3	R750-04C
							1.7	1:6	R750-04M



R750



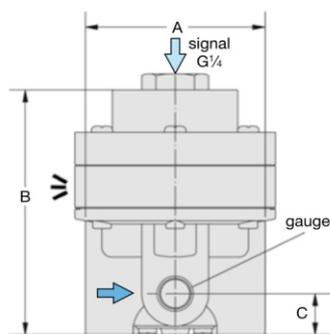
cross-section

## Special options, add the appropriate letter

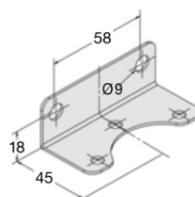
negative bias	factory-set to -0,3 bar	R750-0. .Y
NPT	connection thread	R750-0. .N
tapped exhaust	connection thread G <sup>1</sup> / <sub>4</sub>	R750-0. .X12

## Accessories, enclosed

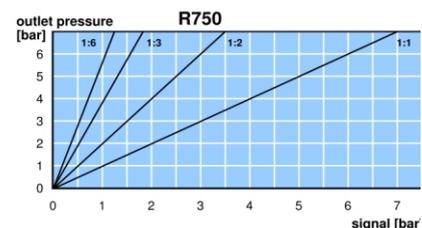
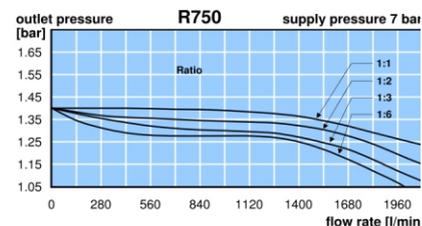
pressure gauge	Ø 50 mm, 0...*2 bar, G <sup>1</sup> / <sub>4</sub>	MA5002-...*2
gauge connector	made of brass, adapter 1/4" NPT to G <sup>1</sup> / <sub>4</sub> female, NPT connection thread	AM-06
mounting bracket	made of steel	BW00-33



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