

Precision Volume Booster with Ratio

R750

Description Pilot-operated volume booster using signal pressure to control outlet pressure accurately with big flow and supply pressure fluctuation.

Supply pressure max. 17 bar / 250 psi

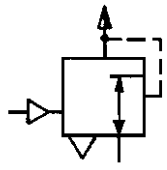
Temperature range -10 °C to 70 °C / 10 °F to 160 °F

Material Body: zinc Diaphragm: NBR (Buna N) Inner valve: brass and stainless steel

Flow capacity: 1200 l/min / 40 scfm at supply 7 bar and 1.4 bar outlet

Exhaust capacity: 170 l/min / 6 scfm at 0.7 bar above set pressure

Ratio	1:1	1:2	1:4	1:6	Conditions
Sensitivity	2 mbar/0.05" HG	3 mbar/0.1" HG	17 mbar/0.5" HG	34 mbar/1" HG	mbar / " HG
Ratio accuracy	2%	2%	3%	4%	% of outlet range with 0.2 - 1 bar signal
Zero error	2%	2%	3%	5%	% of outlet range with 0.2 - 1 bar signal
Pressure change	0.07 bar / 0.1 psi	0.14 bar / 0.2 psi	0.27 bar / 0.4 psi	0.41 bar / 0.6 psi	with 0.35 bar supply pressure fluctuation



1000 l/min*1
1:1 to 1:6

Dimensions	Max. Pressure	Connection	Flow	Signal	Ratio	Order
height Ø	inlet outlet	thread	rate	pressure	signal : outlet	number
mm mm	bar bar	G/NPT	l/min*1	max. bar		

Volume booster with ratio						K _v : 0.5 (m³/h) 0 ... 10 bar	R750		
102	76	17	10	G ¹ / ₄	1000	0...10	1 : 1	R750-02I	
				1/4" NPT		0...5.0	1 : 2	R750-02K	
				G ¹ / ₄		0...3.3	1 : 3	R750-02C	
				1/4" NPT		0...2.5	1 : 4	R750-02L	
				G ¹ / ₄		0...1.7	1 : 6	R750-02M	
				G ³ / ₈	1000	0...10	1 : 1	R750-03I	
				3/8" NPT		0...5.0	1 : 2	R750-03K	
				G ³ / ₈		0...3.3	1 : 3	R750-03C	
				3/8" NPT		0...2.5	1 : 4	R750-03L	
				G ³ / ₈		0...1.7	1 : 6	R750-03M	



R750-02L

Special options add the appropriate letter

negative bias** inlet pressure must be 0.3 bar higher

silicone-free for paint industry

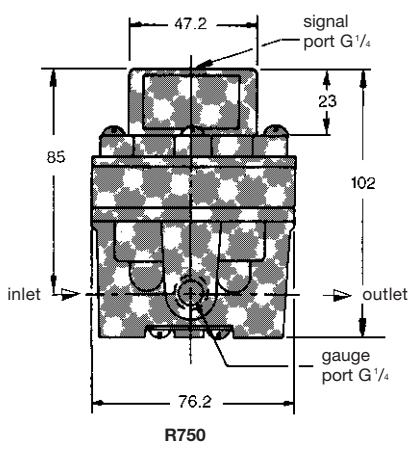
mounting bracket SA-R230

Accessories

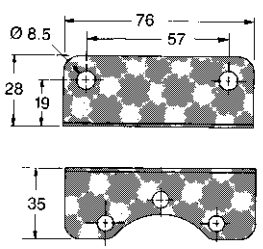
Y R750-0..Y

S R750-0..S

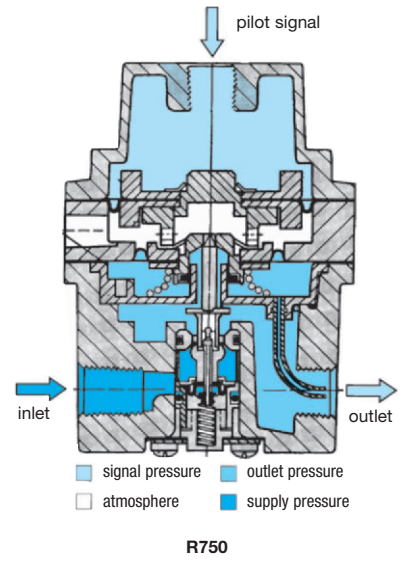
X R750-0..X



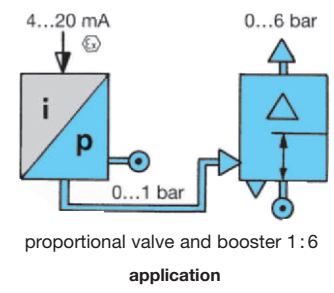
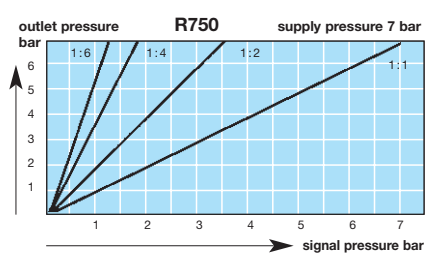
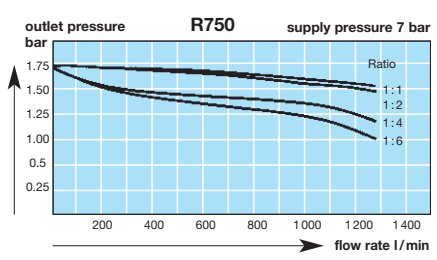
R750



mounting bracket SA-R230



R750



proportional valve and booster 1:6
application

*1 at 7 bar supply pressure and 1.4 bar outlet pressure

*2 the bias spring reduces any signal pressure by 0.3 bar

For your information: 1 bar: 14.8 psi 1 l/min: 0.035 scfm 1 mm: 0.039 inch Pressure gauge: Please consult chapter "Gauges"

1 psi: 0.069 bar 1 scfm: 28.3 l/min 1 inch: 25.4 mm

Order example:
R750-02K