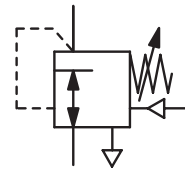


Description

The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. Manual setting through an adjusting screw or handwheel generates a shift of the pressure range between pilot pressure and outlet pressure. This bias is possible both positive and negative by 2 bar. dry, oil-free and 25 µm filtered compressed air

Media
Supply pressure max. 10 bar
Pilot pressure max. 8 bar, pilot port G $\frac{1}{8}$
Accuracy response sensitivity: < 1 mbar
Air consumption max. 3 l/min, subject to outlet pressure, 1% of volume flow
Relieving function relieving, the exhaust valve's diameter is six times greater than the regulating valve's diameter
Gauge port ¼" NPT on both sides of the body, screw plugs supplied
Mounting position any
Temperature range 0 °C to 70 °C / 32 °F to 158 °F, for appropriately conditioned compressed air down to -30 °C / -32 °F
Material
 Body: zinc die-cast
 Elastomer: NBR/Buna-N

Media
Supply pressure
Pilot pressure
Accuracy
Air consumption
Relieving function
Gauge port
Mounting position
Temperature range
Material



¼" NPT, 280 l/min
 parallel translation

Dimensions			Description	Flow rate	Connection thread	Pressure range	Order number
A	B	C					
mm	mm	mm		l/min*1	NPT	bar	

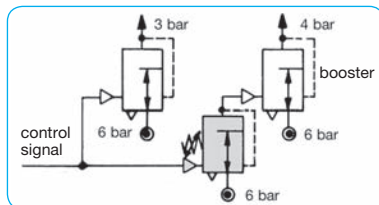
Volume booster			supply max. 10 bar, relieving, K _v = 0.16 m³/h with constant bleed, transmission ratio 1:1	53.20			
54	127	11	handwheel	280	¼" NPT	0.2 ... 1	53.3201.00
						0.14...8	53.3204.00
			with tapped exhaust			0.2 ... 1	53.3401.00
						0.14...8	53.3404.00
54	127	11	adjusting screw	280	¼" NPT	0.2 ... 1	53.2901.00
						0.14...8	53.2904.00



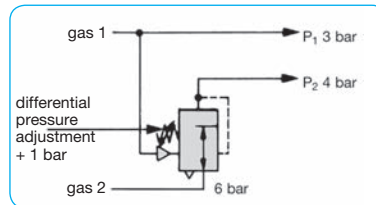
53.3204.00



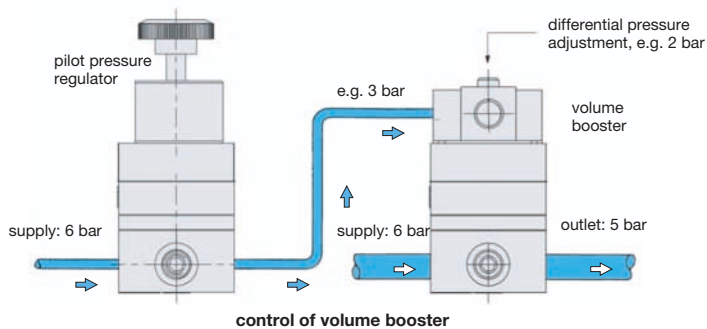
53.2904.00



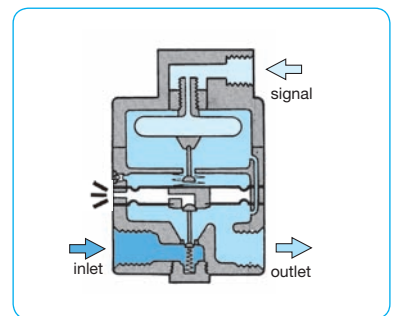
Example 1: constant differential pressure of 1 bar at high flow



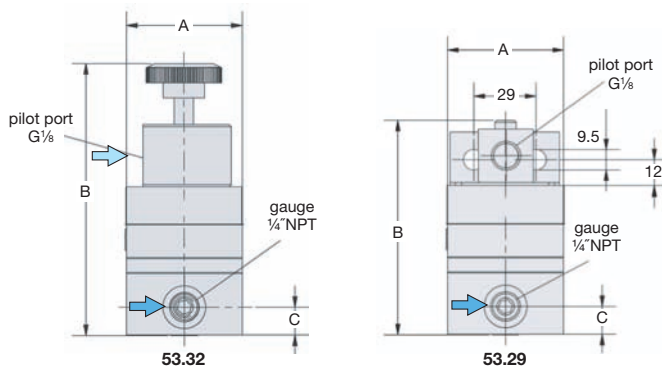
Example 2: constant differential pressure of 1 bar



control of volume booster

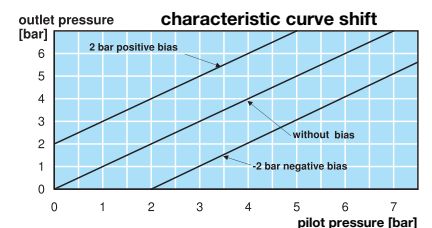


cross section



53.32

53.29



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



Order example:
 53.3201.00
 China website: www.duray-control.cn