

### 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

### Dimensions

**A** **B** **C**  
 mm mm mm

### Description

### Flow rate

l/min\*1

### Connection thread

NPT

### Pressure range

bar

### Order number

## Volume booster

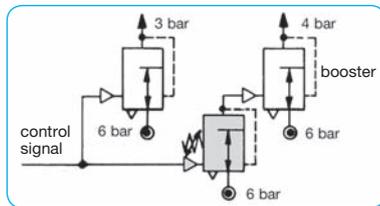
supply max. 10 bar, relieving,  $K_v = 0.16 \text{ m}^3/\text{h}$  with constant bleed, transmission ratio 1:1

## 53.20

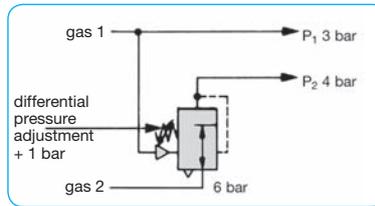
54	127	11	handwheel	280	¼" NPT	0.2 ... 1 0.14...8	53.3201.00 53.3204.00
			with tapped exhaust			0.2 ... 1 0.14...8	53.3401.00 53.3404.00
54	127	11	adjusting screw	280	¼" NPT	0.2 ... 1 0.14...8	53.2901.00 53.2904.00

53.3204.00

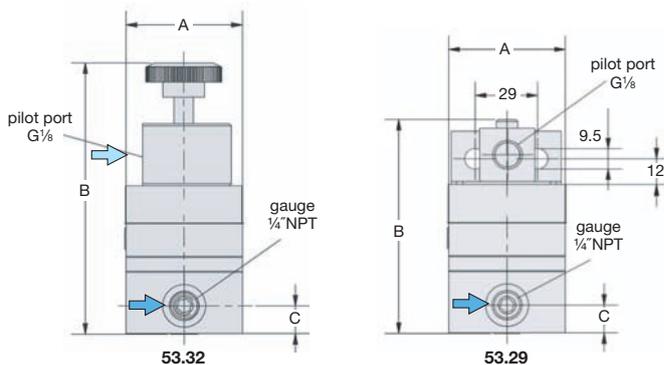
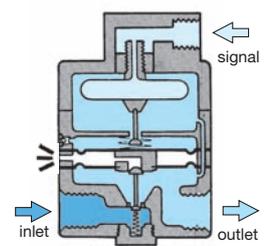
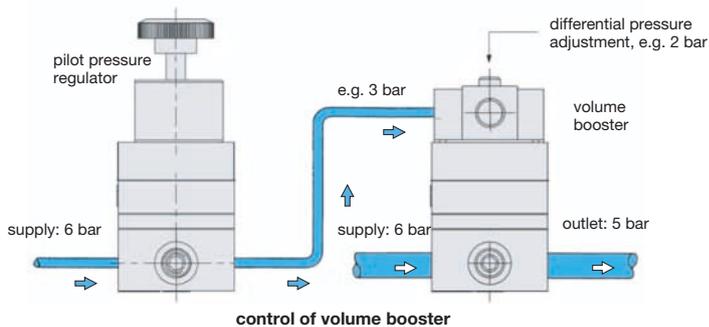
53.2904.00



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



**Example 2:** constant differential pressure of 1 bar



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

