

Description

The volume booster amplifies the volume at a 1:1 ratio of pilot pressure to outlet pressure. The booster is robust, highly accurate and sensitive. The hysteresis between the outlet pressure and the relieving pressure is very small and constant. Caused of the inlet pressure compensation of the control valve the regulator is stable against fluctuations in inlet pressure vibrations due to sudden changes of the volume flow are prevented by damping in the diaphragm chamber.

Media

compressed air or non-corrosive gases

Supply pressure max. 17 bar

Pilot pressure

max. 10 bar

Accuracy

response sensitivity 15 mbar

Internal air consumption

no internal air consumption

Relieving function relieving, tapped exhaust function ¾ NPT

Relief capacity

4245 l/min at 0.35 bar overpressure above setpoint

Gauge port

¾ NPT on both sides of the body

Mounting position any

Temperature range

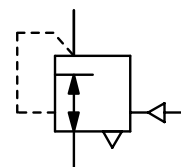
-40 - 93 °C; optional -52 °C

Material

Body: aluminium die-cast

Elastomer: NBR

Inner valve: aluminium and galvanized steel



¾ NPT and 1 NPT
13000 l/min

Dimensions			K _v -Value	Flow rate		Connection thread	Pilot pressure	Transmission ratio	Order number
A	B	C	(m³/h)	m³/h*1	l/min*1	G	max. bar	signal : outlet	
mm	mm	mm							

Booster

Transmission ratio 1:1, inlet pressure max. 17 bar
reversible, without internal air consumption

R600

117	177	45	8	690	11500	¾"NPT	17	0 ...10	R600-06N
			9	780	13000	1"NPT	17	0 ...10	R600-08N



R600

Special options, add the appropriate letter

Low Temperature Option

R600-0.NX51

Body

made of stainless steel (s. page 15.21)

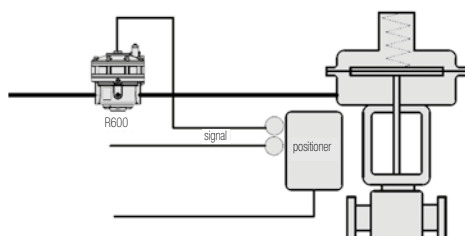
R601

Accessories, enclosed

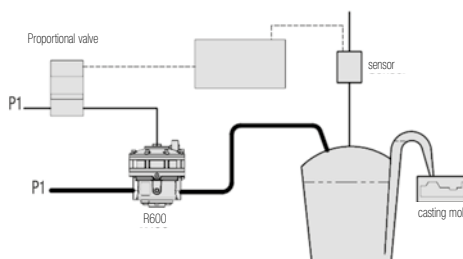
pressure gauge
gauge connector
mounting bracket

Ø 63 mm, 0...*2 bar, G¼
made of brass, adapter ¼"NPTa-G¼ female

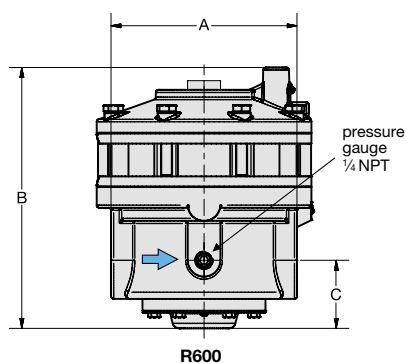
MA6302-..*2
AM-06
BW00-66



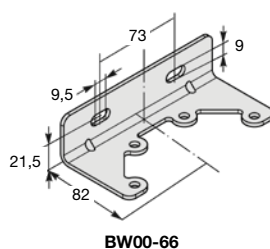
Volume flow booster with single-acting positioner and diaphragm actuator



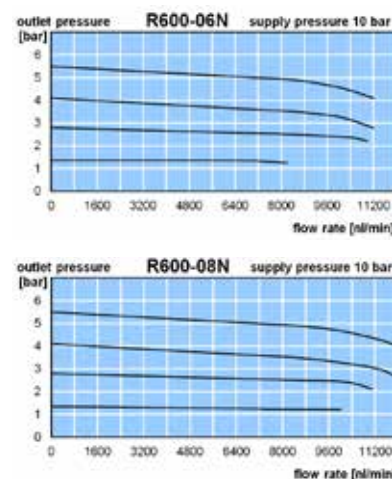
Volume flow booster in a casting plant



R600



BW00-66



*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

Gauges: see chapter for measuring devices
Stainless steel version in chapter 15

PDF CAD
www.aircom.net

* Product group



Order example:
R600-06N