

R600 - Régulateur piloté en pression, précis et à faible hystérésis

R600 - Precision volume booster with bypass valve

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 3/4 NPT

Relief capacity

4245 l/min at 0.35 bar overpressure above setpoint

Gauge port

1/4 NPT on both sides of the body

Mounting position any

Temperature range

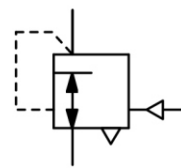
-40 - 93 °C; optional -52 °C

Material

Body: aluminium die-cast

Elastomer: NBR

Inner valve: aluminium and galvanized steel



3/4 NPT and 1 NPT
13000 l/min

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

Booster

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

R600

117	177	45	8	690	11 500	3/4 NPT	17	0 ... 10	R600-06N
			9	780	13 000	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

Ø 63 mm, 0...*2 bar, G1/4

MA6302-...*2

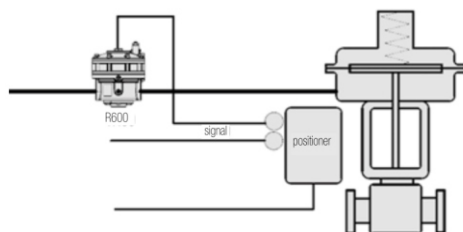
gauge connector

made of brass, adapter 1/4 NPTa - G1/4 female

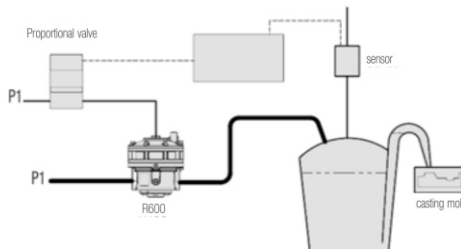
AM-06

mounting bracket

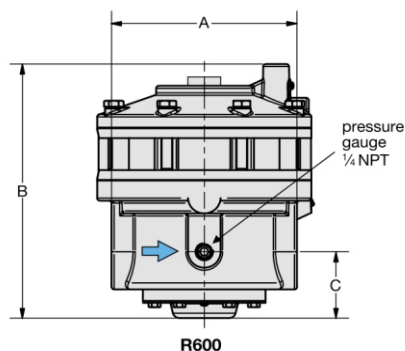
BW00-66



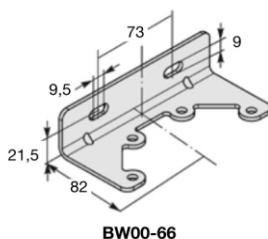
Volume flow booster with single-acting positioner and diaphragm actuator



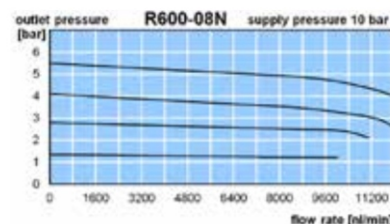
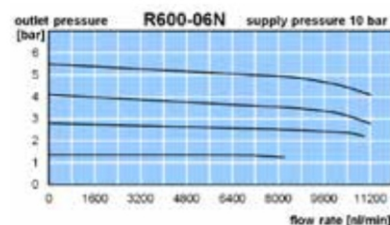
Volume flow booster in a casting plant



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