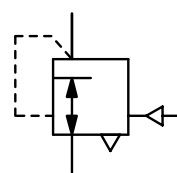


Description	Pilot-operated regulator adapted for control by small remote pilot regulator or by proportional pressure valve. Ideal for continuous high-capacity requirements where reduced pressure must be held constant over wide variations in flow. The booster is equipped with a diaphragm. Transmission ratio 1:1 (pilot pressure to outlet pressure).		
Media	compressed air or non-corrosive gases	Mounting position	any
Supply pressure	max. 28 bar	Pilot pressure	max. 18 bar
Outlet pressure	0.2... 18 bar, max. 31 bar at G1½ a. G2	Air consumption	without constant bleed
Relieving function	6500 l/min at 6 bar, see diagram		
Ports	inlet / outlet: see chart gauge P ₂ : G¼	exhaust: G½ (up to overall size G½), G¾ (from size G¾ on) gauge P ₁ : G½ (from size G¾ on)	
Temperature range	-18 °C to 70 °C / 0 °F to 158 °F		
Material	Body: zinc die-cast, die-cast aluminum at G1½ a. G2 Elastomer: NBR/Buna-N, optional FKM Bottom screw: reinforced nylon, glass fiber reinforced, ... G1½ u. G2		



G¼ up to G2
12500 l/min

Dimensions			Nominal size	K _v -value	Flow rate		Connection thread	Order number
A	B	C	DN	(m³/h)	m³/h*1	l/min*1	G	
mm	mm	mm						

Booster with high relief capacity

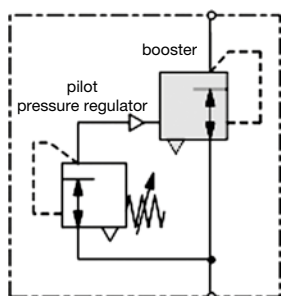
					P ₁ : max. 28/31 bar, ratio 1:1 P ₂ : 0.2... 18 bar, relieving		R116	
80	129	39	15	4.3	270	4500	G¼	R116-02
				4.4	290	4800	G¾	R116-03
				4.5	300	5000	G½	R116-04
93	149	48	25	9.5	690	11500	G¾	R116-06
				10.0	720	12000	G1	R116-08
				10.4	750	12500	G1½	R116-10
152	183	89	40	35,4	2000	42000	G1½	R116-10
				35,4	2500	42000	G2	R116-12

Special options, add the appropriate letter

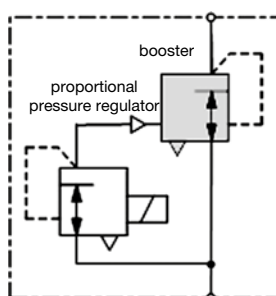
NPT	connection thread	R116-...N
FKM elastomers		R116-...V
flange connection	according to EN-1092-1 or ASME B16.5 on request	R116-...F.

Accessories, enclosed

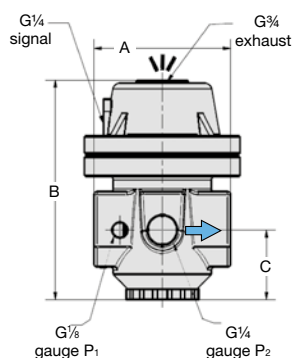
pressure gauge	Ø 50 mm, 0...*2 bar, G¼ Ø 63 mm, 0...*2 bar, G¼	for G¼ to G½ MA5002-*2 for G¾ to G1¼ MA6302-*2
mounting bracket	made of aluminium	for G¼ to G1¼ BW00-32



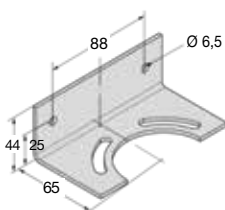
example: booster with pilot pressure regulator



example: booster with proportional pressure regulator



R116



BW00-32

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 02 = 0...2.5 bar, 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar, 25 = 0...25 bar

Gauges: see chapter for measuring devices

PDF CAD
www.aircom.net

* Product group



Order example:
R116-02



R116-04



R116-08



R116-12-16

