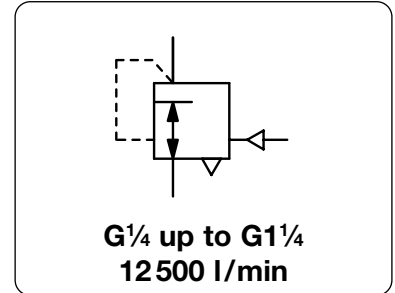


PRECISION VOLUME BOOSTER WITH HIGH RELIEF CAPACITY

R116

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	Air consumption	without constant bleed
Relieving function	6500 l/min at 6 bar, see diagram		
Ports	inlet / outlet: see chart gauge P ₂ : G ¹ / ₄	exhaust: G ¹ / ₂ (up to overall size G ¹ / ₂), G ³ / ₄ (from size G ³ / ₄ on)	gauge P ₁ : G ¹ / ₂ (from size G ³ / ₄ on)
Temperature range	-18 °C to 70 °C / 0 °F to 158 °F		
Material	Body: zinc die-cast Elastomer: NBR/Buna-N	Inner valve: brass Bottom screw: reinforced nylon	



Dimensions			Nominal size	K _v -value	Flow rate		Connection thread	Order number
A	B	C	DN	(m ² /h)	m ³ /h*1	l/min*1	G	

Booster with high relief capacity								P ₁ : max. 28 bar, P ₂ : 0.2... 18 bar, ratio 1:1 relieving	R116
80	129	39	15	4.3	270	4500	G ¹ / ₄	R116-02	
				4.4	290	4800	G ³ / ₈	R116-03	
				4.5	300	5000	G ¹ / ₂	R116-04	
93	149	48	25	9.5	690	11500	G ³ / ₄	R116-06	
				10.0	720	12000	G1	R116-08	
				10.4	750	12500	G ¹ / ₄	R116-10	



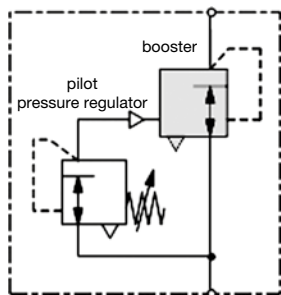
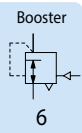
Special options, add the appropriate letter

NPT	connection thread	R116-..N
flange connection	see chapter SST devices / flanges	R116-..F

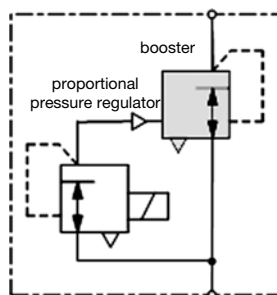


Accessories, enclosed

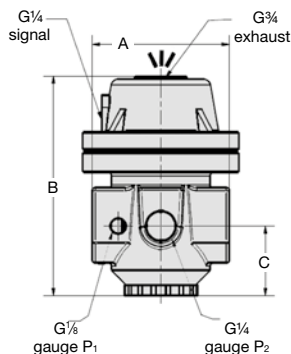
pressure gauge	Ø 50 mm, 0...*2 bar, G ¹ / ₄	for G ¹ / ₄ to G ¹ / ₂	MA5002-*2
	Ø 63 mm, 0...*2 bar, G ¹ / ₄	for G ³ / ₄ to G ¹ / ₄	MA6302-*2
mounting bracket	made of aluminium		BW00-32



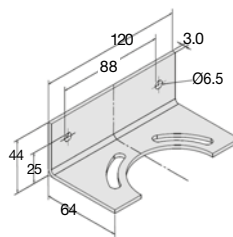
example: booster with pilot pressure regulator



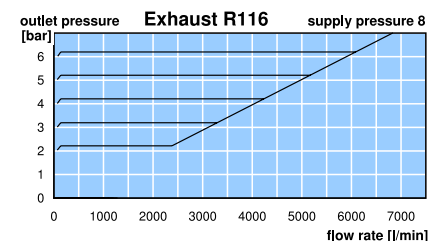
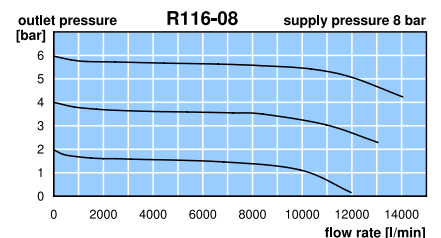
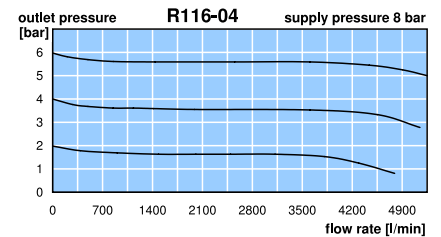
example: booster with proportional pressure regulator



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

Order example:
R116-02