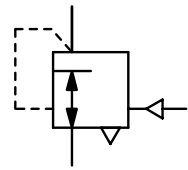


Description	Solid volume booster made of brass or bronze throughout with a 1:1 transmission ratio. R120-02J2 to R120-08J2 are diaphragm-operated, R120-12J, R120-16J and R120-...J5 are piston-operated.		
Media	compressed air, non-corrosive gases or liquids		
Supply pressure	max. 50 bar, for liquids $\Delta p_{max} = 25$ bar		
Pilot pressure	max. 15 bar for R120-...J2, max. 50 bar for R120-...J5, pilot port G $\frac{1}{4}$		
Air consumption	without constant bleed		
Relieving function	non-relieving, optionally relieving		
Relief size	DN2		
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied		
Mounting position	any		
Temperature range	0 °C to 80 °C / 32 °F to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °F to 266 °F for high temperature version, for appropriately conditioned compressed air down to -20 °C / -4 °F, optionally low temperature version down to -40 °C / -40 °F		
Material	Body: brass up to G $\frac{1}{2}$, bronze from G $\frac{3}{4}$ on	O-rings: FKM, optionally EPDM	Inner valve: brass
	Diaphragm: NBR/Buna-N with PTFE coating		



G $\frac{1}{4}$ up to G2
1 ... 15/50 bar

Dimensions	Regul. system	K _v	Flow	Connection	Pilot	Pressure	Order
A B C	D: diaphragm	value	rate	thread	pressure	range	number
mm mm mm	P: piston	(m ³ /h)	m ³ /h*1 l/min*1	G	max. bar	bar	



Booster made of brass R120-J

supply pressure max. 50 bar, non-relieving, without constant bleed, transmission ratio 1:1

64	79	38	D	1.4	60	1 000	G $\frac{1}{4}$	15	1 ... 15	R120-02J2
64	92	38	P					50	1 ... 50	R120-02J5
80	86	38	D	3.0	120	2 500	G $\frac{1}{2}$	15	1 ... 15	R120-04J2
80	107	38	P					50	1 ... 50	R120-04J5
114	147	66	D	9.8	500	8 300	G $\frac{3}{4}$	15	1 ... 15	R120-06J2
114	176	66	P					50	1 ... 50	R120-06J5
114	147	66	D	9.8	500	8 300	G1	15	1 ... 15	R120-08J2
114	176	66	P					50	1 ... 50	R120-08J5
174	223	122	P	25.0	2 000	33 000	G1 $\frac{1}{2}$	15	1 ... 15	R120-12J2
174	223	122	P					50	1 ... 50	R120-12J5
174	223	122	P	25.0	2 000	33 000	G2	15	1 ... 15	R120-16J2
174	223	122	P					50	1 ... 50	R120-16J5



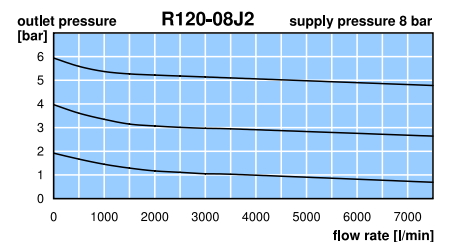
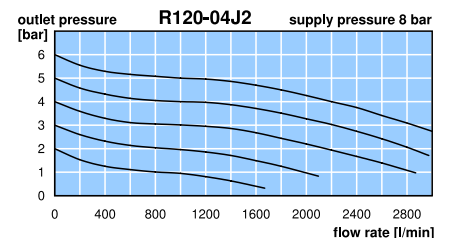
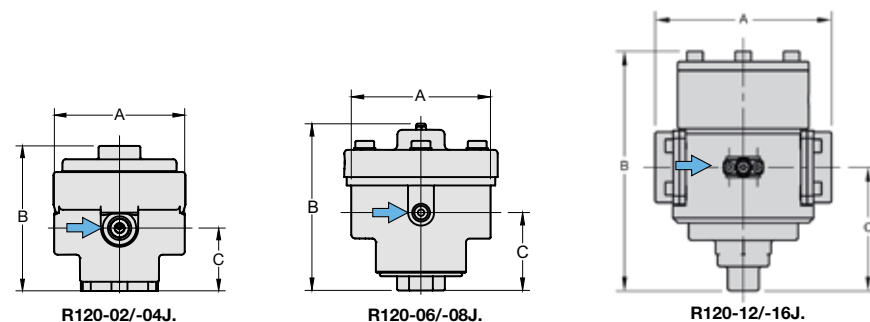
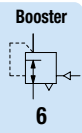
R120-02J2



R120-04J5



R120-06J2



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 02 = 0...2.5 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 60 = 0...60 bar

Gauges: see chapter for measuring devices

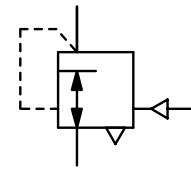
PDF CAD
www.aircom.net

* Product group



Order example:
R120-02J2

Description	Solid volume booster made of brass or bronze throughout with a 1:1 transmission ratio. R120-02J2 to R120-08J2 are diaphragm-operated, R120-12J, R120-16J and R120-...J5 are piston-operated.		
Media	compressed air, non-corrosive gases or liquids		
Supply pressure	max. 50 bar, for liquids $\Delta p_{max} = 25$ bar		
Pilot pressure	max. 15 bar for R120-...J2, max. 50 bar for R120-...J5, pilot port G $\frac{1}{4}$		
Air consumption	without constant bleed		
Relieving function	non-relieving, optionally relieving		
Relief size	DN2		
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied		
Mounting position	any		
Temperature range	0 °C to 80 °C / 32 °F to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °F to 266 °F for high temperature version, for appropriately conditioned compressed air down to -20 °C / -4 °F, optionally low temperature version down to -40 °C / -40 °F		
Material	Body: brass up to G $\frac{1}{2}$, bronze from G $\frac{3}{4}$ on	O-rings: FKM, optionally EPDM	Inner valve: brass
	Diaphragm: NBR/Buna-N with PTFE coating		



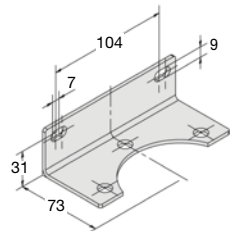
G $\frac{1}{4}$ up to G2
1 ... 15/50 bar

Dimensions	Regul. system	K _v	Flow	Connection	Pilot	Pressure	Order
A B C	D: diaphragm	value	rate	thread	pressure	range	number
mm mm mm	P: piston	(m ³ /h)	m ³ /h*1 l/min*1	G	max. bar	bar	

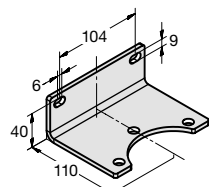


Special options, add the appropriate letter

diaphragm relieving	for R120-02J2 up to R120-08J2	R120-...J.R
piston relieving	for R120-12J, R120-16J and R120-...J5	R120-...J.R
down to -40 °C	low temperature version	R120-...J.X51
up to 130 °C	high temperature version	R120-...J.X54
EPDM elastomer	not for G2	R120-...J.E
tapped exhaust		R120-...J.RX12
nitrogen N ₂ : 07	carbon dioxide CO ₂ : 03	argon Ar: R120-...J.05
helium He: 09	hydrogen H ₂ : 11	methane CH ₄ : R120-...J.13
natural gas 14	oxygen O ₂ : 15	propane C ₃ H ₈ : R120-...J.16
	nitrous oxide N ₂ O: 17	water H ₂ O: R120-...J.W
flange connection	flange connection according to EN-1092-1 or ASME B16.5 on request R120-...J.F.	



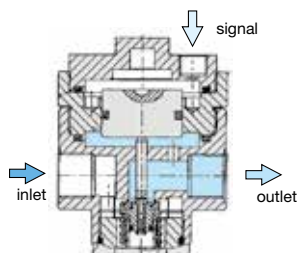
BW00-42



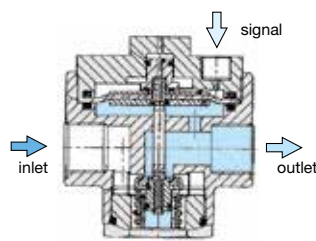
BW00-68S

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ and G $\frac{1}{2}$	MA5002-...*2
pressure gauge	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ up to G2	MA6302-...*2
mounting bracket	made of steel	for G $\frac{3}{4}$ and G1	BW00-42
	made of stainless steel	for G1½ and G2	BW00-68S



cross-section: with piston



cross-section: with diaphragm

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
*2 02 = 0...2.5 bar, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 60 = 0...60 bar

Gauges: see chapter for measuring devices

PDF CAD
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* Product group



Order example:
MA5002-02