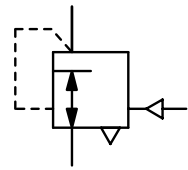


Description	Solid volume booster made of brass or bronze throughout with a 1:1 transmission ratio. R120-02J2 to R120-08J2 are diaphragm-operated, R120-12J, R120-16J and R120-...J5 are piston-operated.		
Media	compressed air, non-corrosive gases or liquids		
Supply pressure	max. 50 bar, for liquids $\Delta p_{max} = 25$ bar		
Pilot pressure	max. 15 bar for R120-...J2, max. 50 bar for R120-...J5, pilot port G1/4		
Air consumption	without constant bleed		
Relieving function	non-relieving, optionally relieving		
Relief size	DN2		
Gauge port	G1/4 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 G1/4, bronze from G3/4 on	O-rings: FKM, optionally EPDM	Inner valve: brass
	Diaphragm: NBR/Buna-N with PTFE coating		



G1/4 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	(m³/h)	m³/h*1 l/min*1	G	max. bar	bar	

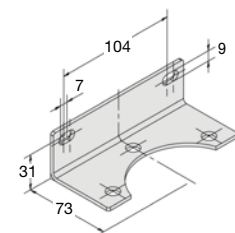
Booster made of brass				supply pressure max. 50 bar, non-relieving, without constant bleed, transmission ratio 1:1					R120-J	
64	79	38	D	0.35	25	420	G¼	15	1 ... 15	R120-02J2
64	92	38	P					50	1 ... 50	R120-02J5
80	86	38	D	1	72	1200	G½	15	1 ... 15	R120-04J2
80	107	38	P					50	1 ... 50	R120-04J5
116	136	65	D	3.5	252	4200	G¾	15	1 ... 15	R120-06J2
116	150	65	P					50	1 ... 50	R120-06J5
116	136	65	D	4.2	300	5000	G1	15	1 ... 15	R120-08J2
116	150	65	P					50	1 ... 50	R120-08J5
195	140	84	P	11.8	840	14 000	G1½	50	1 ... 50	R120-12J5
195	190	84	P	12.6	900	15 000	G2	50	1 ... 50	R120-16J5

Special options, add the appropriate letter

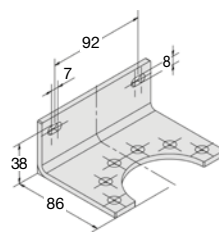
diaphragm relieving	for R120-02J2 up to R120-08J2			R120-...J.R
piston relieving	for R120-12J, R120-16J and R120-...J5			R120-...J.R
down to -40 °C	low temperature version			R120-...J.X51
up to 130 °C	high temperature version			R120-...J.X54
EPDM elastomer	not for G2			R120-...J.E
tapped exhaust				R120-...J.RX12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

Accessories, enclosed

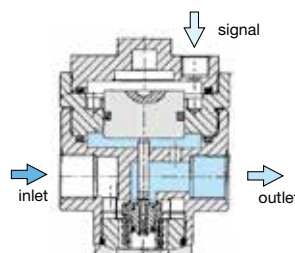
pressure gauge	Ø 50 mm, 0...*2 bar, G1/4	for G1/4 and G1/2	MA5002-..*2
pressure gauge	Ø 63 mm, 0...*2 bar, G1/4	for G3/4 up to G2	MA6302-..*2
mounting bracket	made of steel	for G3/4 and G1	BW00-42
		for G1 1/2 and G2	BW00-43



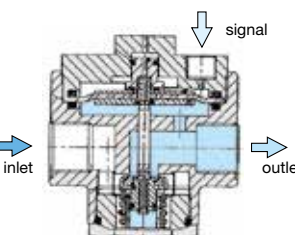
BW00-42



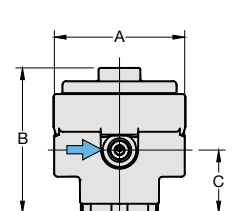
BW00-43



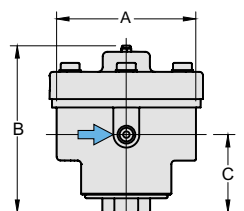
cross-section: with piston



cross-section: with diaphragm



R120-02/-04J.



R120-06/-08/-12/-16J.



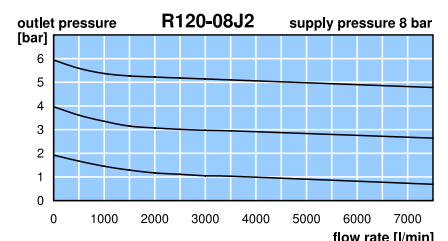
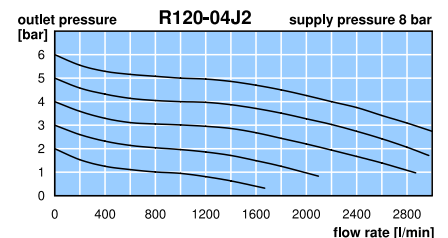
R120-02J2



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