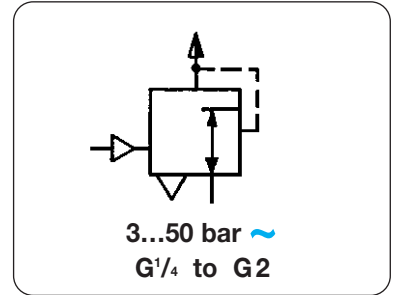


Volume Booster up to 50 bar

R120-J

Description	Solid high pressure volume booster designed to convert a pressure signal with low flow into high flow outlet. Volume booster with diaphragm: R120-..J1 and R120-..J2 Volume booster with piston: R120-..J3 and R120-..J5	
Media	Compressed air or non-corrosive gases, filtered to 40 µm, or non-corrosive liquids	
Relieving	Non-relieving for liquids as standard, relieving as option	
Pilot signal	1:1 to outlet pressure, possible to realize with manual pilot regulator or proportional pressure valve.	
Gauge port	1/2" on both sides of the body, plug supplied	Air consumption: none
Temperature range	-10 °C to 90 °C / 14 °F to 200 °F with NBR (Buna N) -30 °C to 150 °C / -22 °F to 300 °F with FPM (Viton)	-30 °C to 130 °C / -22 °F to 270 °F with EPDM
Materials	Body and spring cage: brass (<1/2"), bronze (>1/2") Diaphragm or seals: NBR (Buna N) standard	Inner valve: brass Option: FPM or EPDM



Dimensions	K _v -value	Flow rate	Reg. System	Supply pressure	Pressure range	Connection thread	Order number
B H C	m ³ /h	l/min*	D: diaphragm P: piston	max. bar	bar	G	

Pressure volume booster						brass, non-relieving,	NBR ratio 1:1	R120..J		
64	90	34	0.35	420	D	30 bar	1...15 bar	G ^{1/4}	R120-02J1	
					D	50 bar	1...15 bar		R120-02J2	
					P	50 bar	3...50 bar		R120-02J5	
80	103	38	1.0	1200	D	30 bar	1...15 bar	G ^{1/2}	R120-04J1	
					D	50 bar	1...15 bar		R120-04J2	
					P	50 bar	3...50 bar		R120-04J5	
132	152	65	3.5	4200	D	30 bar	1...15 bar	G ^{3/4}	R120-06J1	
					D	50 bar	1...15 bar		R120-06J2	
					P	50 bar	3...50 bar		R120-06J5	
132	152	65	4.2	5000	D	30 bar	1...15 bar	G1	R120-08J1	
					D	50 bar	1...15 bar		R120-08J2	
					P	50 bar	3...50 bar		R120-08J5	
215	200	62	11.8	14000	P	50 bar	1...15 bar	G1 ^{1/2}	R120-12J3	
					P	50 bar	3...50 bar		R120-12J5	
215	200	62	12.6	15000	P	50 bar	1...15 bar	G2	R120-16J3	
					P	50 bar	3...50 bar		R120-16J5	

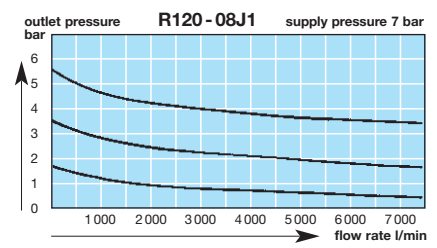
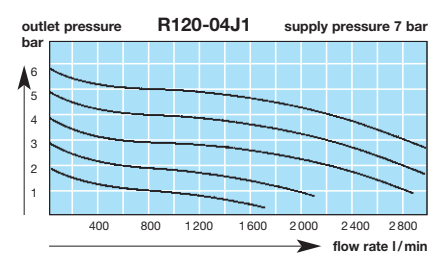
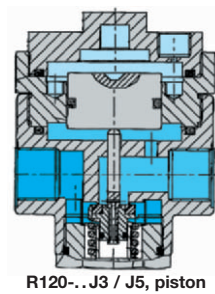
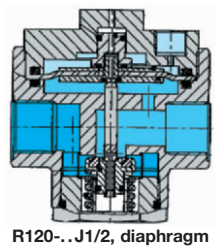
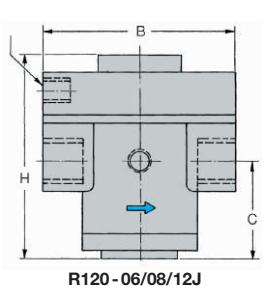
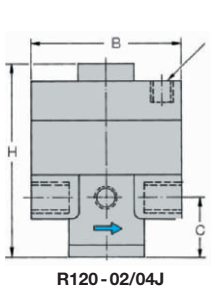
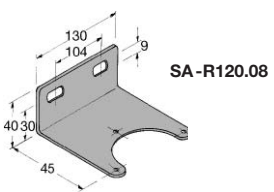


Special options add the appropriate letter

diaphragm, relieving	R120-.. J1 and J2,	exhaust DN2
piston, relieving DN2	R120-.. J3 up to J5,	exhaust DN2
piston, relieving DN4	R120-.. J3 up to J5,	exhaust DN4
pressure gauge for water	loose	
FPM elastomer	~ incl. special parts	
EPDM elastomer	Viton	
tapped exhaust mounting bracket for other gases	SA-R120.08 (G1)	SA-R120.16 (G2)
	see manually operated regulator R120	

Accessories

R	R120-..J.R
R	R120-..J.R
R4	R120-..J.R4
G	R120-..J.G
W	R120-..J.W
V	R120-..J.V
E	R120-..J.E
T	R120-..J.RT
X	R120-..J.X



* at 7 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

For your information:	1 bar: 14.8 psi	1 l/min: 0.035 scfm	1 mm: 0.039 inch	Pressure gauge: Please consult chapter "Gauges"
	1 psi: 0.069 bar	1 scfm: 28.3 l/min	1 inch: 25.4 mm	

Order example:
R120-08J2