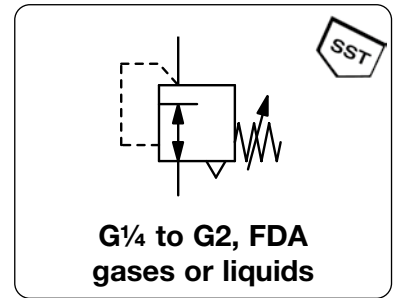


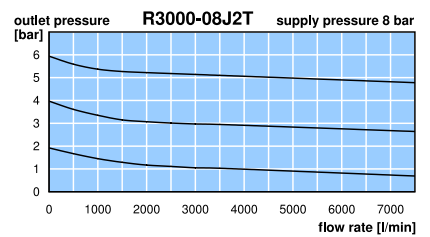
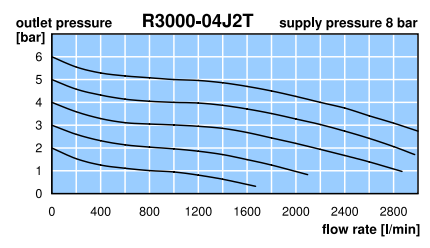
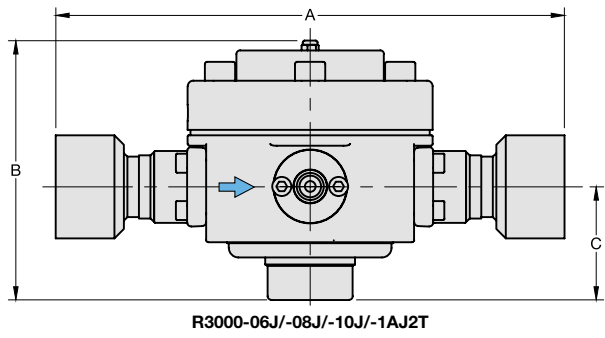
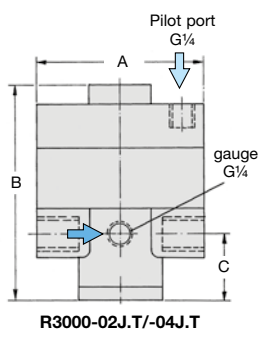
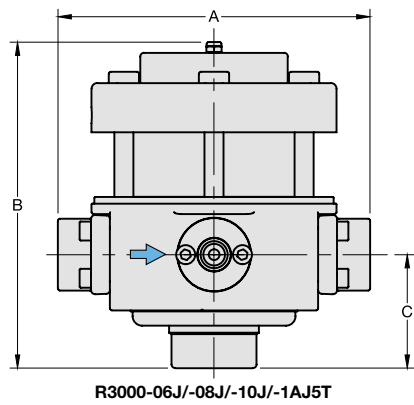
# VOLUME BOOSTER MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR R3000-J

<b>Description</b>	Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.	
<b>Media</b>	compressed air, gases or liquids	
<b>Supply pressure</b>	max. 60 bar for R3000-06J/-1A, max. 30 bar for -16J, all others 50 bar, for liquids $\Delta p_{max} = 25$ bar	
<b>Pilot pressure</b>	max. 15 bar for R3000-...J2, max. 50 bar for R3000-...J5, pilot port G $\frac{1}{4}$	
<b>Relieving function</b>	non-relieving, optionally relieving	
<b>Exhaust</b>	DN 2, optionally DN 4	
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	<b>Mounting position</b> any
<b>Temperature range</b>	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F	
<b>Material</b>	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally SST	O-rings: FKM, optionally EPDM Inner valve: SST 316L, W.-Nr. 1.4404



Dimensions			Regulating System	K <sub>v</sub> -value	Flow rate	Connection thread	Pilot pressure	Pressure range	Order number
A	B	C	D: Diaphragm P: Piston	(m <sup>3</sup> /h)	m <sup>3</sup> /h*1	G	max. bar	bar	

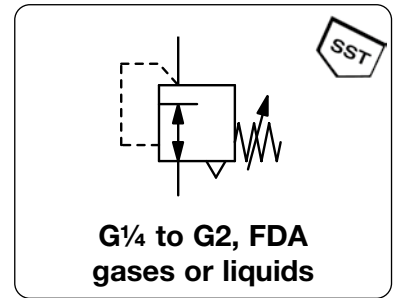
Stainless steel booster										supply pressure max. 60 bar, non-relieving, ratio 1:1, PTFE-diaphragm and FKM-o-ring	R3000-J
64	79	38	D	0.5	30	500	G $\frac{1}{4}$	15	1...15	R3000-02J2T	
64	92	38	P					50	1...50	R3000-02J5T	
80	86	38	D	1.0	72	1200	G $\frac{1}{2}$	15	1...15	R3000-04J2T	
80	107	38	P					50	1...50	R3000-04J5T	
165	138	60	D	6.0	390	6500	G $\frac{3}{4}$	15	1...15	R3000-06J2T	
165	173	60	P					60	1...60	R3000-06J5T	
165	138	60	D	6.0	390	6500	G1	15	1...15	R3000-08J2T	
165	173	60	P					60	1...60	R3000-08J5T	
269	138	60	D	6.0	390	6500	G1 $\frac{1}{4}$	15	1...15	R3000-10J2T	
269	173	60	P					60	1...60	R3000-10J5T	
269	138	60	D	6.0	390	6500	G1 $\frac{1}{2}$	15	1...15	R3000-1AJ2T	
269	173	60	P					60	1...60	R3000-1AJ5T	
171	237	128	P	12.0	840	14000	G1 $\frac{1}{2}$	50	1...50	R3000-12J5T	
171	237	128	P	12.6	900	15000	G2	50	1...50	R3000-B6J5T	
171	268	128	P	21.0	1500	25000	G2	15	1...15	R3000-16J2T	



\*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, 06 = 0...6 bar, 10 = 0...10 bar, 16 = 0...16 bar, 60 = 0...60 bar

# VOLUME BOOSTER MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR R3000-J

<b>Description</b>	Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.		
<b>Media</b>	compressed air, gases or liquids		
<b>Supply pressure</b>	max. 60 bar for R3000-06J/-08J, all others 50 bar,	for liquids $\Delta p_{max} = 25$ bar	
<b>Pilot pressure</b>	max. 15 bar for R3000-...J2, max. 50 bar for R3000-...J5,	Steueranschluss G $\frac{1}{4}$	
<b>Relieving function</b>	non-relieving, optionally relieving		
<b>Exhaust</b>	DN 2, optionally DN 4		
<b>Gauge port</b>	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	<b>Mounting position</b>	any
<b>Temperature range</b>	0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F		
<b>Material</b>	Body: stainless steel 316L, material no. 1.4404 Diaphragm: NBR/Buna-N with PTFE coating, optionally SST	O-rings: FKM, optionally EPDM Inner valve: SST 316L, W.-Nr. 1.4404	



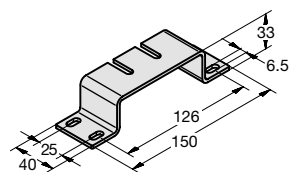
Dimensions	Regulating System	K <sub>v</sub> -value	Flow rate	Connection thread	Pilot pressure	Pressure range	Order number
A B C	D: Diaphragm	P: Piston	(m <sup>3</sup> /h) m <sup>3</sup> /h*1 l/min*1	G	max. bar	bar	
mm mm mm							

## Special options, add the appropriate letter

<b>diaphragm relieving</b>		for R3000-02J2 to -08J2	R3000-...J2.R
<b>piston relieving</b>		for R3000-...J5	R3000-...J...R
<b>down to -40 °C/ -40°F</b>	low temperature version		R3000-...J...X51
<b>up to 130 °C/266 °F</b>	high temperature version		R3000-...J...X54
<b>FKM -o-ring</b>	for piston regulator or PTFE diaphragm		R3000-...J...T
<b>EPDM-o-ring</b>			R3000-...J...TE
<b>EPDM-o-ring</b>	FDA-approval		R3000-...J...TD
<b>SST diaphragm</b>	FKM -o-ring		R3000-...J...S
	EPDM-o-ring		R3000-...J...SE
<b>tapped exhaust</b>			R3000-...J...X12
<b>ammonia</b>	NH <sub>3</sub>		R3000-...J...02
<b>carobon dioxide</b>	CO <sub>2</sub>		R3000-...J...03
<b>argon</b>	Ar		R3000-...J...05
<b>nitrogen</b>	N <sub>2</sub>		R3000-...J...07
<b>helium</b>	He		R3000-...J...09
<b>hydrogen</b>	H <sub>2</sub>		R3000-...J...11
<b>methane</b>	CH <sub>4</sub>		R3000-...J...13
<b>natural gas *3</b>			R3000-...J...14
<b>oxygen</b>	O <sub>2</sub>		R3000-...J...15
<b>propane</b>	C <sub>3</sub> H <sub>8</sub>		R3000-...J...16
<b>nitrous oxide</b>	N <sub>2</sub> O		R3000-...J...17
<b>water</b>	H <sub>2</sub> O		R3000-...J...W
<b>flange connection</b>	see end of the chapter / flanges		R3000-...J...F.

## Accessories, enclosed

<b>pressure gauge</b>	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ and G $\frac{1}{2}$	<b>MS5002-...*2</b>
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ to G2	<b>MS6302-...*2</b>
<b>mounting bracket</b>		for G $\frac{3}{4}$ and G1	<b>BW00-59S</b>



\*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop \*3 without DVGW-approval  
\*2 02 = 0...2.5 bar, 04 = 0...4 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



Order example:  
MS5002-02