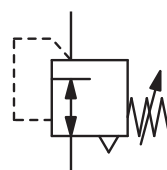


VOLUME BOOSTER MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR R3000-J

Description	Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.		
Media	compressed air, gases or liquids		
Supply pressure	max. 60 bar for R3000-06J/-1A, max. 30 bar for -16J, all others 50 bar, for liquids $\Delta p_{\max} = 25$ bar		
Pilot pressure	max. 15 bar for R3000-...J2, max. 50 bar for R3000-...J5, pilot port G $\frac{1}{4}$		
Relieving function	non-relieving, optionally relieving		
Exhaust	DN 2, optionally DN 4		
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied		
Temperature range	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		
Material	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	Mounting position any



SST

G $\frac{1}{4}$ to G2, FDA
gases or liquids

Dimensions	Regulating 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	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	M	1.4	78	1300	G $\frac{1}{4}$	15	1...15	R3000-02J2T
64	92	38	K					50	1...50	R3000-02J5T
109	90	39	M	3.0	168	2800	G $\frac{1}{2}$	15	1...15	R3000-04J2T
109	108	39	K					50	1...50	R3000-04J5T
165	137	60	M	9.7	540	9000	G $\frac{3}{4}$	15	1...15	R3000-06J2T
165	172	60	K					50	1...50	R3000-06J5T
165	137	60	M	9.7	540	9000	G1	15	1...15	R3000-08J2T
165	172	60	K					50	1...50	R3000-08J5T



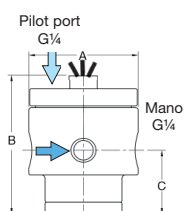
R3000-02J2T



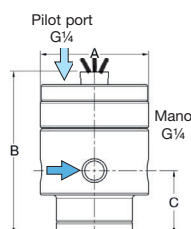
R3000-04J2T



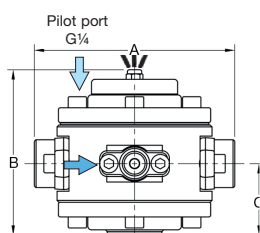
R3000-06J2T/-08J2T



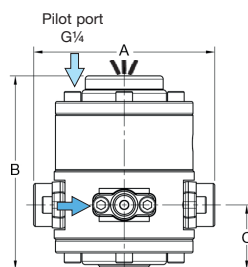
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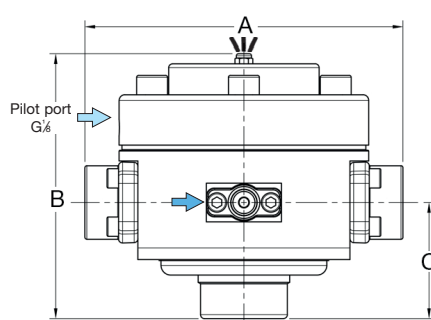
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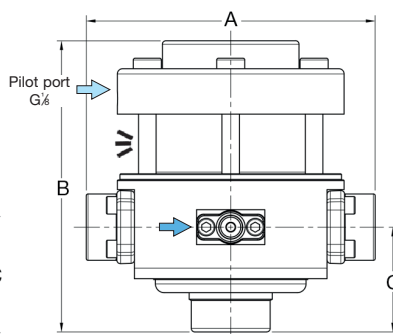
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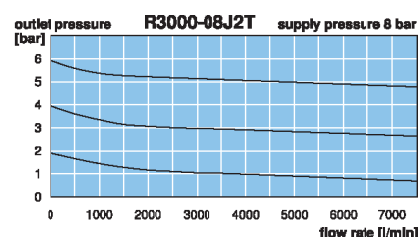
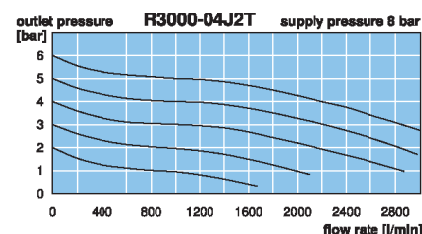
R3000-04J5T



R3000-06J2T/-08J2T



R3000-06J5T/-08J5T



*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

Gauges: see chapter for measuring devices

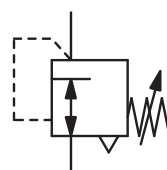
PDF CAD
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VOLUME BOOSTER MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR R3000-J

Description	Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.	
Media	compressed air, gases or liquids	
Supply pressure	max. 60 bar for R3000-06J/-1A, max. 30 bar for -16J, all others 50 bar, for liquids $\Delta p_{\max} = 25$ bar	
Pilot pressure	max. 15 bar for R3000-...J2, max. 50 bar for R3000-...J5, pilot port G $\frac{1}{4}$	
Relieving function	non-relieving, optionally relieving	
Exhaust	DN 2, optionally DN 4	
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied	
Temperature range	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	
Material	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

Mounting position any



SST

G $\frac{1}{4}$ to G2, FDA gases or liquids

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



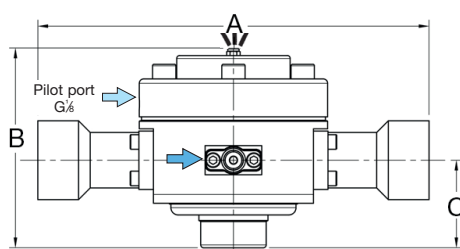
Stainless steel booster				supply pressure max. 60 bar, non-relieving, ratio 1:1, PTFE-diaphragm and FKM-o-ring				R3000-J			
269	137	60	M	9.7	540	9000	G1 $\frac{1}{4}$	15	1 ... 15	R3000-10J2T	
269	172	60	K					50	1 ... 50	R3000-10J5T	
269	137	60	M	9.7	540	9000	G1 $\frac{1}{2}$	15	1 ... 15	R3000-1AJ2T	
269	172	60	K					50	1 ... 50	R3000-1AJ5T	
174	226	126	K	25.0	1380	23000	G1 $\frac{1}{2}$	50	1 ... 15	R3000-12J2T	
174	226	126	K					50	1 ... 50	R3000-12J5T	
174	226	126	K	25.0	1380	23000	G2	50	1 ... 15	R3000-B6J2T	
174	226	126	K					50	1 ... 50	R3000-B6J5T	
171	268	128	M	25.0	1440	24000	G2	15	1 ... 15	R3000-16J2T	



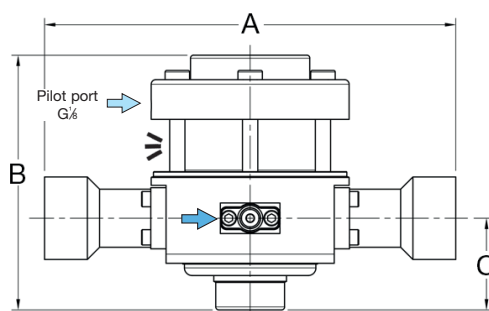
R3000-12J.T/-B6J.T
accessory: gauge

SST

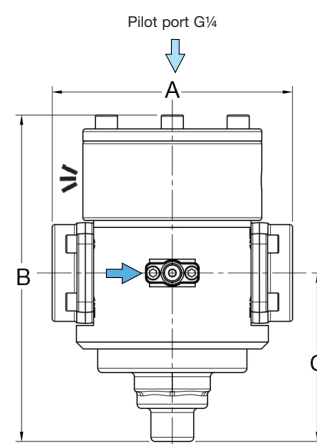
SST
15



R3000-10J2T/-1AJ2T



R3000-10J5T/-1AJ5T



R3000-12J.T/-B6J.T

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

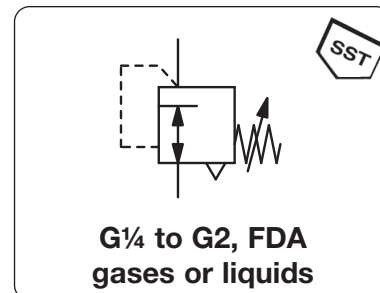
Gauges: see chapter for measuring devices

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

Description	Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.		
Media	compressed air, gases or liquids		
Supply pressure	max. 60 bar for R3000-06J/-1A, max. 30 bar for -16J, all others 50 bar, for liquids $\Delta p_{max.} = 25$ bar		
Pilot pressure	max. 15 bar for R3000-...J2, max. 50 bar for R3000-...J5, pilot port G $\frac{1}{4}$		
Relieving function	non-relieving, optionally relieving		
Exhaust	DN 2, optionally DN 4		
Gauge port	G $\frac{1}{4}$ on both sides of the body, one screw plug supplied		
Temperature range	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		
Material	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	Mounting position any



Dimensions	Regulating System	K _v -value	Flow rate	Connection	Pilot pressure	Pressure range	Order number
A B C	D: Diaphragm	P: Piston	(m³/h) m³/h*1 l/min*1	thread G	max. bar	bar	
mm mm mm							

Special options, add the appropriate letter

diaphragm relieving		for R3000-02J2 to 1A8J2	R3000-...J2.R
piston relieving		for R3000-...J5	R3000-...J.R
down to -40 °C/ -40°F	low temperature version		R3000-...J.X51
up to 130 °C/266 °F	high temperature version		R3000-...J.X54
FKM -o-ring	for piston regulator or PTFE diaphragm		R3000-...J.T
EPDM-o-ring			R3000-...J.TE
EPDM-o-ring	FDA-approval		R3000-...J.TD
SST diaphragm	FKM -o-ring		R3000-...J.S
	EPDM-o-ring		R3000-...J.SE
tapped exhaust			R3000-...J.X12
ammonia	NH ₃	P ₁ max. 15 bar	R3000-...J..02
carobon dioxide	CO ₂		R3000-...J..03
argon	Ar		R3000-...J..05
nitrogen	N ₂		R3000-...J..07
helium	He		R3000-...J..09
hydrogen	H ₂		R3000-...J..11
methane	CH ₄		R3000-...J..13
natural gas *3			R3000-...J..14
oxygen	O ₂		R3000-...J..15
propane	C ₃ H ₈		R3000-...J..16
nitrous oxide	N ₂ O		R3000-...J..17
water	H ₂ O		R3000-...J..W
flange connection	according to EN-1092-1 or ASME B16.5	on request	R3000-...J..F.

Accessories, enclosed

pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ and G $\frac{1}{2}$	MS5002-...*2
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ to G2	MS6302-...*2
mounting bracket		for G $\frac{1}{2}$ to G1½ (1A)	BW00-59S
		for G1½ (12) and G2 (B6)	BW00-68S

*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

*3 without DVGW-approval