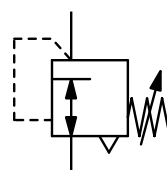


VOLUME BOOSTER MADE OF STAINLESS STEEL THROUGHOUT, UP TO 50 BAR R3000-J

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	Pilot pressure	Pressure range	Order number
A B C	D: Diaphragm P: Piston	(m ³ /h)	m ³ /h*1 l/min*1	thread	max. bar	bar	
mm mm mm				G			

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
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



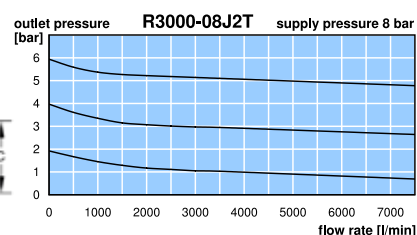
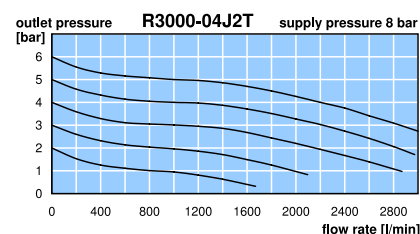
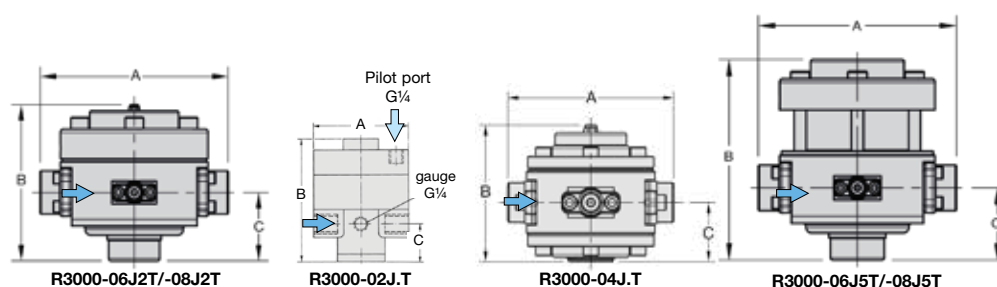
R3000-02J2T
accessory: gauge



R3000-04J



R3000-06J/-08J/-10J/-1AJ2T



*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

Gauges: see chapter for measuring devices

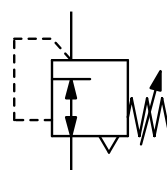
PDF CAD
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Order example:
R3000-02J2T

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	Pilot pressure	Pressure range	Order number
A B C	D: Diaphragm P: Piston	(m ³ /h)	m ³ /h*1 l/min*1	thread	max. bar	bar	
mm mm mm				G			

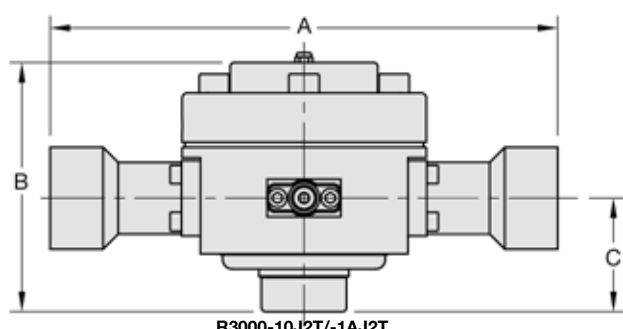
Stainless steel booster					supply pressure max. 60 bar, non-relieving, ratio 1:1, PTFE-diaphragm and FKM-o-ring					R3000-J
174	226	126	K	25.0	1380	23000	G1½	50	1 ... 15	R3000-12J2T
174	226	126	K					50	1 ... 50	R3000-12J5T
174	226	126	K	25.0	1380	23000	G2	50	1 ... 15	R3000-B6J2T
174	226	126	K					50	1 ... 50	R3000-B6J5T
171	268	128	K	25.0	1440	24000	G2	15	1 ... 15	R3000-16J2T



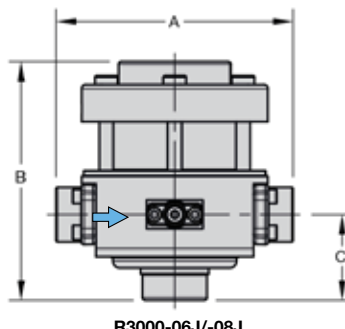
R3000-12J2T

SST

SST
15



R3000-10J2T/-1AJ2T



R3000-06J/-08J

*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

Gauges: see chapter for measuring devices

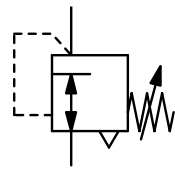
PDF CAD
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Order example:
R3000-12J2T

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

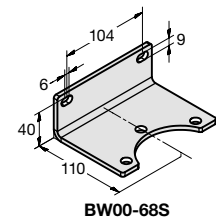
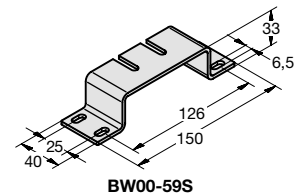


G $\frac{1}{4}$ to G2, FDA gases or liquids

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

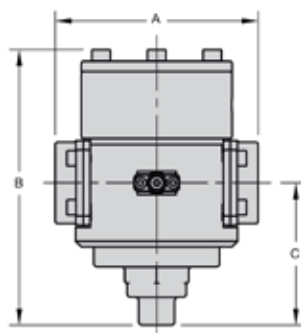
Special options, add the appropriate letter

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	see end of the chapter / flanges		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 $\frac{1}{4}$ to G2	MS6302-...*2
mounting bracket		for G $\frac{1}{4}$ and G1	BW00-59S
		for G $\frac{1}{2}$ (12) and G2 (B6)	BW00-68S



R3000-12J/-B6J

*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

Gauges: see chapter for measuring devices

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Order example:
MS5002-02