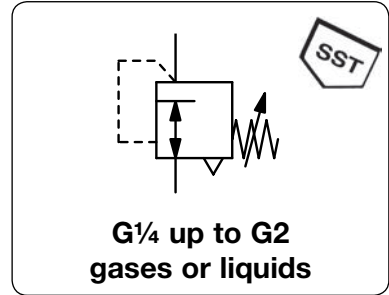


# Volume Booster Made of Stainless Steel Throughout, up to 50 bar

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 voltage</b>	max. 50 bar
<b>Pilot pressure</b>	max. 15 bar at R3000-...J2, max. 50 bar at 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 60 °C / 32 °F to 140 °F, optionally high temperature version up to 130 °C / 266 °F
<b>Material</b>	Body: stainless steel 316L, material no. 1.4404 O-rings: FKM, optionally NBR/Buna-N or EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404



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

## Stainless steel booster

supply pressure max. 50 bar, non-relieving, ratio 1:1, PTFE diaphragm and FKM o-ring

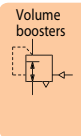
## R3000-J

65	84	36	D	0.5	30	500	G $\frac{1}{4}$	15	1 ... 15	<b>R3000-02J2T</b>
			P					50	1 ... 50	<b>R3000-02J5T</b>
80	84	38	D	1.0	72	1200	G $\frac{1}{2}$	15	1 ... 15	<b>R3000-04J2T</b>
			P					50	1 ... 50	<b>R3000-04J5T</b>
130	136	65	D	5.0	360	6000	G $\frac{3}{4}$	15	1 ... 15	<b>R3000-06J2T</b>
			P					50	1 ... 50	<b>R3000-06J5T</b>
130	136	65	D	5.5	390	6500	G1	15	1 ... 15	<b>R3000-08J2T</b>
			P					50	1 ... 50	<b>R3000-08J5T</b>
200	210	65	P	12	840	14000	G $\frac{1}{2}$	50	1 ... 50	<b>R3000-12J5T</b>
200	210	65	P	12.6	900	15000	G2	50	1 ... 50	<b>R3000-B6J5T</b>
200	265	63	P	21	1500	25000	G2	50	1 ... 50	<b>R3000-16J5T</b>



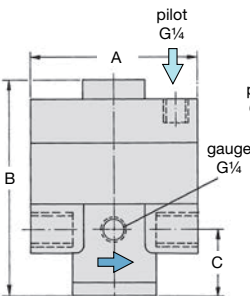
## Special options, add the appropriate letter

supply pressure 30 bar	instead of 50 bar	for range 1...15 bar, up to G1	R3000-...J1
relieving diaphragm		for R3000-02J2 to -08J2	R3000-...J2.R
relieving piston		for R3000-12J, -16J and -...J5	R3000-...J.R
up to 130 °C / 266 °F	high temperature version		R3000-...J.X54
FKM o-ring	for piston regulator or PTFE diaphragm		R3000-...J.T
NBR/Buna-N o-ring			R3000-...J.TB
EPDM o-ring			R3000-...J.TE
SST diaphragm	FKM o-ring		R3000-...J.S
	NBR/Buna-N o-ring		R3000-...J.SB
	EPDM o-ring		R3000-...J.SE
tapped exhaust			R3000-...J.X12
nitrogen N <sub>2</sub> : 07	ammonia NH <sub>3</sub> : 02	carbon dioxide CO <sub>2</sub> :	R3000-...J.O3
argon Ar: 05	helium He: 09	hydrogen H <sub>2</sub> :	R3000-...J.11
methane CH <sub>4</sub> : 13	oxygen O <sub>2</sub> : 15	propane C <sub>3</sub> H <sub>8</sub> :	R3000-...J.16
	nitrous oxide N <sub>2</sub> O: 17	water H <sub>2</sub> O:	R3000-...J.W
flange connection	see end of the chapter / flanges		R3000-...J.F.

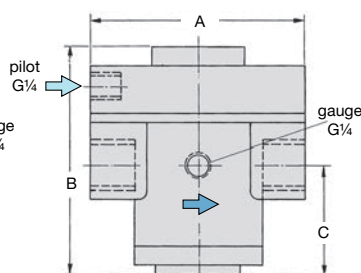


## Accessories, enclosed

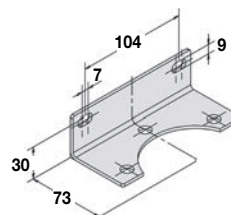
pressure gauge	Ø 50 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{1}{4}$ and G $\frac{1}{2}$	<b>MS5002-...*2</b>
	Ø 63 mm, 0...*2 bar, G $\frac{1}{4}$	for G $\frac{3}{4}$ to G2	<b>MS6302-...*2</b>
mounting bracket		for G $\frac{3}{4}$ and G1	<b>BW00-27S</b>



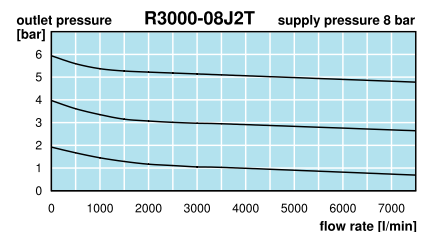
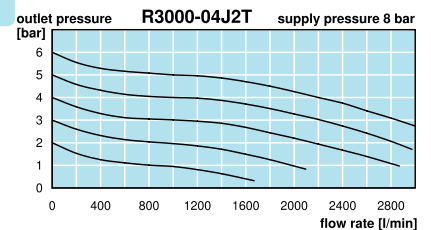
R3000-02J/-04J



R3000-06J...-16J



BW00-27S



\*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



Order example:  
R3000-02J2T

China website: www.duray-control.cn