

## B Series Check Valve Dispensing Pumps

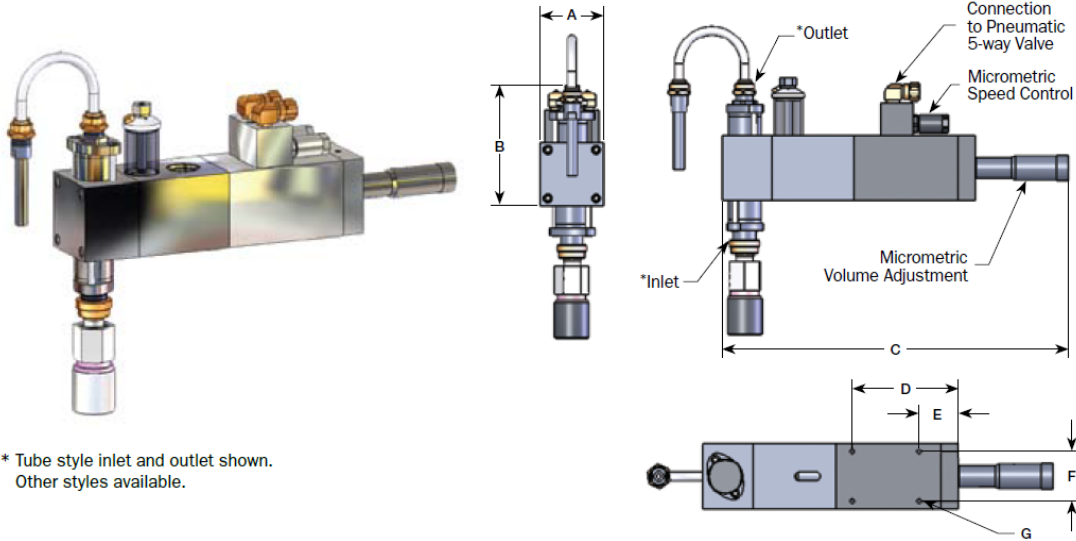
The B Series Check Valve style Dispensing Pumps have proven reliability having serviced the cosmetic, food, pharmaceutical and technical industries for over 30 years. These pumps are ideally suited for low to medium viscosity applications (<2000 cps) that require dispensing of .020 ml to 20 ml per shot.



### B Series Check Valve Dispensing Pumps Features:

- \* *Pneumatic Piston Pump provides extremely high dispensing accuracies, typically  $\pm 1/2\%$  or better.*
- \* *(Some models are capable of dispensing quantities as small as 1  $\mu$ l with excellent accuracy).*
- \* *Precise dispense volume adjustment and speed control via the built-in micrometers and precision needle valves.*
- \* *Integrated check valves handle fluids with viscosities up to 20,000 cps. containing no solids.*
- \* *Easy to disassemble, clean and maintain.*
- \* *Modular design makes it easy to integrate with automated filling equipment.*
- \* *316L Stainless Steel construction standard.*
- \* *A number of different pump construction materials are available to insure product compatibility.*
- \* *Robust design provides reliable and extended life.*
- \* *A service life of 20 million cycles without maintenance for some applications is not unusual.*
- \* *Pumps have provided continuous service for over 25 years with only routine maintenance required.*
- \* *Wide range of fill nozzles and accessories are available to suit specific applications.*
- \* *Servo motor driven models are also available.*

# B Series Check Valve Dispensing Pumps



model	Plunger Diameter		Stroke inch (mm)	maximum Dispensing Volume (cc)	Cycl e Speed (cpm)	air Consumption scfm (l/min)	external Dimensions inch (mm)						Weight lbs (kg)	
	inch	mm					A	B	C	D	E	F		G
1BC-1S	0.079	(2.0)		0.020					7.77					
1BC-2S	1/8	(3.2)	1/4 (6.4)	0.050		0.22 (6.2) <sup>B</sup>			(198)					
1BC-3S	3/16	(4.8)		0.110	0-300 <sup>A</sup>		1.68	3.45	8.01	2.52	0.89	1.25	8-32	5.0
1BC-3M	3/16	(4.8)		0.230										
1BC-4M	1/4	(6.4)		0.400										
1BC-5M	5/16	(7.9)	1/2 (12.7)	0.620										
1BC-7M	7/16	(11.1)		1.220										
1BC-10M	5/8	(15.9)		2.510										
2BC-8R	1/2	(12.7)	1 (25.4)	3.220	0-150 <sup>A</sup>	0.83 (23.5) <sup>B</sup>								
2BC-10R	5/8	(15.9)		5.030										
2BC-12	3/4	(19.1)		7.240										
2BC-14	7/8	(22.2)		9.850										
2BC-17	1-1/16	(27.0)		14.520										
2BC-20	1-1/4	(31.8)		20.110										

<sup>A</sup> Maximum cycle rate is application dependent    <sup>B</sup> Calculated at full stroke at 100cpm, 75 PSI (5 Bar)

Applications			
Cosmetics	Food	Pharmaceutical	General
<ul style="list-style-type: none"> <li>* Perfume</li> <li>* Creams</li> <li>* Lotions</li> <li>* Shampoos</li> <li>* Oils</li> <li>* Mouthwash</li> <li>* Nail Lacquer</li> <li>* Moisturizer</li> <li>* Skin Cleanser</li> <li>* Make-up Remover</li> </ul>	<ul style="list-style-type: none"> <li>* Ketchup</li> <li>* Vinegar</li> <li>* Honey</li> <li>* Butter</li> <li>* Coffee</li> <li>* Cream</li> <li>* Jelly</li> <li>* Sauces</li> <li>* Juices</li> <li>* Puddings</li> </ul>	<ul style="list-style-type: none"> <li>* Medicine</li> <li>* Culture Media</li> <li>* Biologicals</li> <li>* Antibiotics</li> <li>* Cough Syrup</li> </ul>	<ul style="list-style-type: none"> <li>* Acids</li> <li>* Alkalines</li> <li>* Reagents</li> <li>* Inks</li> <li>* Paints</li> <li>* Glues / Adhesives</li> <li>* Battery Electrolyte</li> <li>* Lighter Fluids</li> <li>* Oils</li> <li>* Solvents</li> </ul>