# N40013 - 06/11 - Subject to change. Belimo Aircontrols (USA), Inc

### **B3 Series, Three Way, Characterized Control Valve Stainless Steel Ball and Stem**









#### Technical Data chilled or hot water, 60% glycol Service Flow characteristic A-port equal percentage B-port modified for constant common port flow Action 90° rotation Sizes 1/2", 3/4", 1", 11/4", 11/2", 2" Type of end fitting NPT female ends Materials: Body forged brass, nickel plated Ball stainless steel Stem stainless steel Seats PTFE Tefzel® Characterizing disc 2 EPDM O-rings, lubricated **Packing** Body pressure rating ½" - 1" 600 psi 11/4" - 2" 400 psi Media temp. range 0°F to 212°F [-18°C to 100°C] Close off pressure 200 psi Maximum differential 30 psi for typical applications pressure ( $\Delta P$ ) Leakage 0% for A to AB <2.0% for B to AB according to EN 12266-1:2003 External leakage C<sub>v</sub> rating A-port: see product chart for values B-port: 70% of A to AB C<sub>v</sub>

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## Dimensions OZSB-4/DSB-4/MEN/ARMS

		Valve No	ninal Size	Dimensions (Inches [mm])				
	<b>Valve Body</b>	ody Inches DN [mi		Α	В	C		
	B307-B311	1/2"	15	2.41" [61.1]	1.39" [35.2]	1.20" [30.6]		
	B312-B315	1/2"	15	2.38" [60.4]	1.78" [45.2]	1.29" [32.8]		
	B317-B320	3/4"	20	2.73" [69.3]	1.87" [47.4]	1.47" [37.3]		
	B322-B325	1"	25	3.09" [78.4]	1.87" [47.4]	1.59" [40.3]		
	B329-B331	11⁄4"	32	3.96" [100.6]	2.27" [57.7]	2.14" [54.3]		
	B338-B341	1½"	40	4.39" [111.6]	2.51" [63.7]	2.40" [61.1]		
	B347-B352	2"	50	4.90" [124.5]	2.73" [69.5]	2.74" [69.7]		

#### **Application**

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

	Valve Nor	ninal Size	Туре		Suitable Actuators				
Cv	Inches	DN [mm]	3-Way NPT	No	n-Spr	ing	{	Spring	
0.3	1/2	15	B307						
0.46	1/2	15	B308	TR Series	LR Series	NRN4 Series	TF Series	LF Series	
0.8	1/2	15	B309						
1.2	1/2	15	B310						
1.9	1/2	15	B311						
3	1/2	15	B312						
4.7	1/2	15	B313						
10	1/2	15	B315*						
4.7	3/4	20	B317						
7.4	3/4	20	B318						
24	3/4	20	B320*						
7.4	1	25	B322						
10	1	25	B323						
30	1	25	B325*						
10	11/4	32	B329		AR Series	ARN4 Series			
19	11/4	32	B330						
25	11/4	32	B331						
19	1½	40	B338						
29	1½	40	B339						
37	1½	40	B340						AF Series
46	1½	40	B341						Sel
29	2	50	B347						AF
37	2	50	B348						
46	2	50	B349						
57	2	50	B350						
68	2	50	B351						
83	2 ut characterizin	50	B352						

<sup>\*</sup>Models without characterizing disc



