

# SERIES E



### SPECIFICATIONS

#### Features

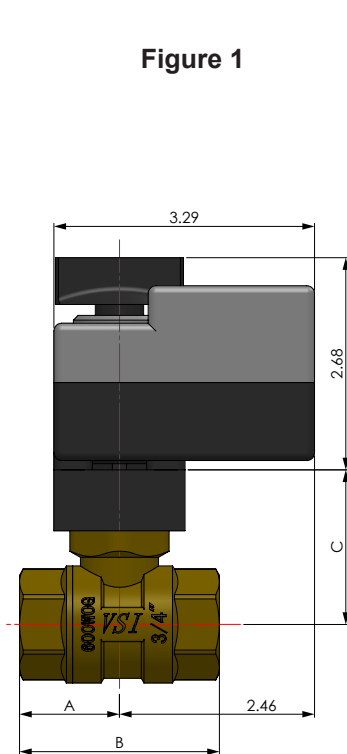
- Modified V-Port machined directly into the ball
- 300:1 turndown ratio for precise control
- Modified equal percentage flow characteristics
- Low torque - will accept most damper actuators
- Wide Cv range for various HVAC applications
- 200psi close off
- Full port available in all sizes (see Cv chart below)

<b>Body Material:</b>	Forged Brass 2 Piece Construction
<b>End Connections:</b>	NPT Female Connections
<b>Service:</b>	Chilled Water, Hot Water, up to 50% Glycol
<b>Body Pressure Rating:</b>	1/2" - 2": 600WOG
<b>Working Pressure:</b>	200psi Close Off
<b>Max Differential Pressure:</b>	50psi
<b>Leakage:</b>	ANSI/FCI 70-2, Class VI

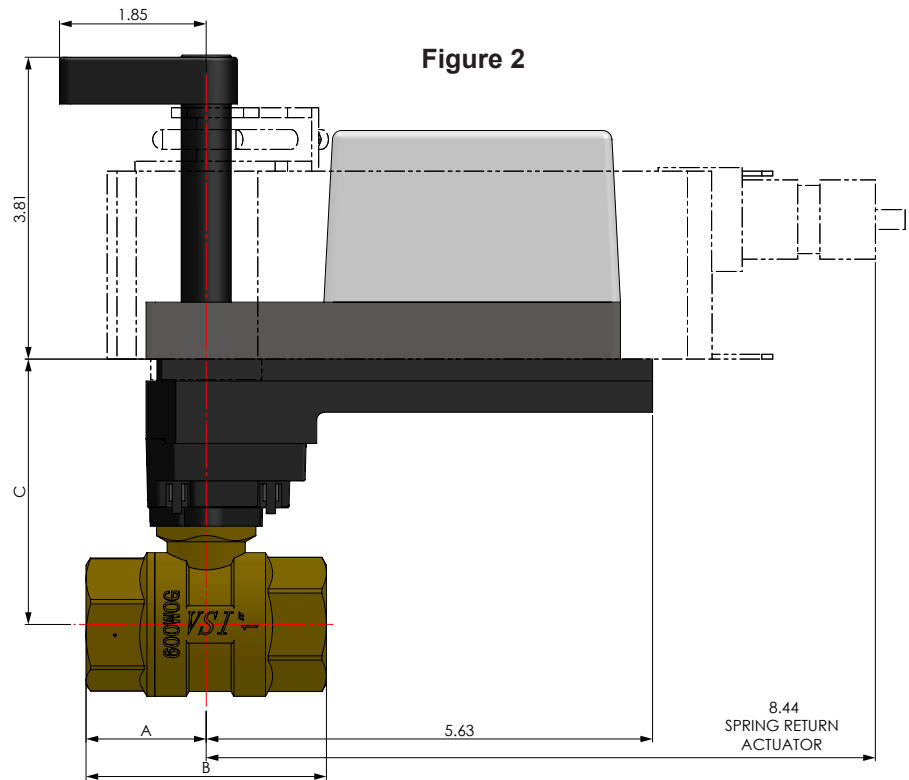
Flow Coefficients (Cv) for Series E Ball Valves - V Port													Torque at 200psi in/lb
Valve Size	Part Number	Valve Rotation in Percent										Weight Lbs	
		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%		
1/2"	BV-050-001	N/A	N/A	0.01	0.07	0.25	0.46	0.70	0.96	1.29	1.67	.5	<10
	BV-050-002	N/A	N/A	0.03	0.19	0.37	0.59	0.88	1.29	1.88	2.33		
	BV-050-003	N/A	0.05	0.12	0.31	0.52	0.74	1.02	1.55	2.35	3.61		
	BV-050-100*												
3/4"	BV-075-001	0.02	0.08	0.16	0.44	0.73	1.12	1.79	2.90	4.52	6.63	.8	20
	BV-075-100*												
1"	BV-100-001	0.02	0.16	0.53	0.93	1.42	2.14	3.24	4.96	7.46	10.87	1.1	40
	BV-100-100*												
1 1/4"	BV-125-001	0.04	0.31	0.92	1.54	2.41	3.88	6.29	9.92	14.67	20.85	1.7	40
	BV-125-100*												
1 1/2"	BV-150-001	0.05	0.39	1.33	2.39	3.82	6.32	10.21	16.47	25.82	36.32	2.3	60
	BV-150-100*												
2"	BV-200-001	0.07	0.61	1.97	3.56	5.7	9.34	15.26	24.60	39.27	54.25	4.2	90
	BV-200-100*												

\*FULL PORT BALL

**Figure 1**



**Figure 2**

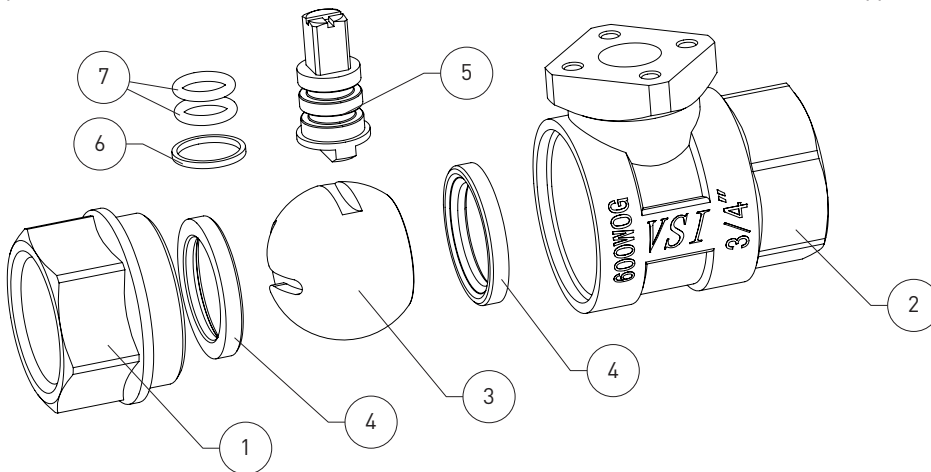


**Dimensions in Inches**

Valve Size	Direct Mount (Figure 1)			Universal Mount (Figure 2)		
	A	B	C	A	B	C
1/2"	1.10	2.20	1.81	1.10	2.20	3.03
3/4"	1.26	2.52	1.95	1.26	2.52	3.17
1"				1.46	2.91	3.35
1 1/4"				1.67	3.35	3.56
1 1/2"				1.95	3.90	3.83
2"				2.17	4.33	4.07

### Universal Mounting Plate

The VSI universal mounting plate provides a perfect solution for actuating the Series E ball valves. It is compatible with most damper actuators including Siemens, Honeywell, Johnson Controls, KMC Controls and Belimo. The 33% glass fiber reinforced nylon material of the mounting plate and handle provides excellent thermal isolation between the valve and actuator in chilled or hot water applications.



### Detailed View of a Two-Way Ball Valve Bill of Materials

1	Body Part 1	Forged Brass CW617N
2	Body Part 2	Forged Brass CW617N
3	Ball	Chrome Plated Brass
4	Seat	PTFE G500
5	Stem	Forged Brass CW617N
6	Stem Bushing	PTFE G500
7	Stem O-Ring	Viton 70