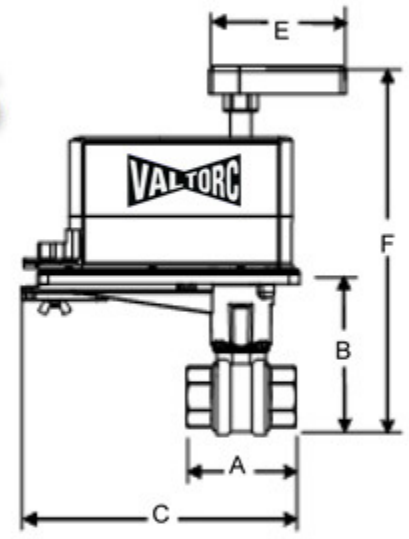


## SERIES VP-800 BRASS V-PORT BALL VALVES



### SPECIFICATIONS

- Static Pressure/Temp:** 360 PSI / 250 F (600 WOG)
- Service:** Chilled water, hot water, up to 50% Glycol, or contact factory for additional fluids.
- Flow Optimizer:** Glass Filled Polymer
- Body Material:** Forged Brass ASTM B283-06
- End Connections:** Brass - NPT, Sweat or BSP
- Field Repairable Stem:** Dual Teflon seals and EPDM O-ring
- Stem Seals:** EPDM O-Rings
- Ball Valve:** Nickel-plated brass ball  
Optional: Stainless Steel ball
- Ball Seals:** Teflon Seals with EPDM O-Rings
- Angle of Rotation:** 0-90

### DIMENSIONS & WEIGHTS (NOMINAL) (measured in inches and lbs unless noted)

SIZE	MODEL NO.	Cv	A:LENGTH		B:HEIGHT	C:LENGTH <sup>1</sup>		D:DEPTH (NOT SHOWN)	E:HANDLE	F:HEIGHT	WEIGHT
			FNPT	SWT		FNPT	SWT				
1/2"	VP800A	0.38, 0.68, 1.3, 2.6, 4.7, 11.7	2.37	2.28	3.57	6.65	6.65	3.00	2.02	8.23	1.0
		8.0	2.64	3.03	3.83	6.52	6.73			8.43	
3/4"	VP800B	0.31, 0.63, 1.2, 2.5, 4.3, 14.7	2.37	2.70	3.57	6.41	6.54	3.00	2.02	8.23	1.0
		10.1, 28.6	2.64	2.90	3.83	6.52	6.65			8.43	
1"	VP800C	9.0, 28.4	3.73	3.94	3.83	7.08	6.65	3.00	2.02	8.43	1.0
		4.4, 15.3, 54.2	3.05	3.43	4.08	6.73	7.10			8.80	1.4
		26.1, 43.9	4.40	4.43	4.58	7.40	7.42			9.00	2.4
1-1/4"	VP800D	4.4, 8.3, 14.9, 41.1	3.01	3.43	4.08	6.71	7.10	3.00	2.02	8.80	1.4
		36.5, 102.3	3.60	3.85	4.58	7.00	7.13			9.22	2.4
1-1/2"	VP800E	22.8, 73.9	3.43	4.92	4.08	6.92	7.66	3.00	2.02	9.22	2.4
		41.3, 171.7	3.70	4.53	5.31	7.06	7.50			9.00	3.2
2"	VP800	41.7, 108.0	3.98	5.04	5.31	7.19	7.72	3.00	2.02	9.00	3.2
		57.0, 71.1, 100.0, 210, 266	4.41	5.59	5.89	7.41	8.00			10.62	5.0
2-1/2"	VP800G	45.0, 55.0, 72.3, 101, 162, 202	4.70	N/A <sup>2</sup>	5.89	7.56	N/A	3.00	2.02	10.62	5.5
3"	VP800H	49.0, 63.0, 82.0, 124, 145	5.02	N/A <sup>2</sup>	6.03	7.71	N/A	4.00	2.02	10.83	5.9



**Cv SELECTION AND FLOW RATE TABLE (GPM)**

LINE SIZE	MODEL NO.	FULL <sup>3</sup> PORT	CLOSE OFF <sup>4</sup>	FLOWRATE (GPM) @ DIFFERENTIAL PRESSURE (PSI) ACROSS VALVE											
				Cv <sup>5</sup>											
				0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	7.0	10.0
1/2"	VP800A1		130PSI	0.3	0.38	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.8	1.0	1.2
	VP800A2			0.5	0.68	0.8	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.8	2.2
	VP800A3			0.9	1.3	1.6	1.8	2.1	2.3	2.4	2.6	2.8	2.9	3.4	4.1
	VP800A4			1.8	2.6	3.2	3.7	4.1	4.5	4.9	5.2	5.5	5.8	6.9	8.2
	VP800A5			3.3	4.7	5.8	6.6	7.4	8.1	8.8	9.4	10.0	10.5	12.4	14.9
	VP800A6	.		8.3	11.7	14.3	16.5	18.5	20.3	21.9	23.4	24.8	26.2	31.0	37.0
	VP800A7			5.7	8.0	9.8	11.3	12.6	13.9	15.0	16.0	17.0	17.9	21.2	25.3
3/4"	VP800B6		130PSI	0.2	0.31	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	1.0
	VP800B7			0.4	0.63	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.7	2.0
	VP800B8			0.8	1.2	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.7	3.2	3.8
	VP800B1			1.8	2.5	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	6.6	7.9
	VP800B2			3.0	4.3	5.3	6.1	6.8	7.4	8.0	8.6	9.1	9.6	11.4	13.6
	VP800B3	.		10.4	14.7	18.0	20.8	23.2	25.5	27.5	29.4	31.2	32.9	38.9	46.5
	VP800B4			7.1	10.1	12.4	14.3	16.0	17.5	18.9	20.2	21.4	22.6	26.7	31.9
VP800B5	.	20.2	28.6	35.0	40.4	45.2	49.5	53.5	57.2	60.7	64.0	75.7	90.4		
1"	VP800C1		100PSI	6.4	9.0	11.0	12.7	14.2	15.6	16.8	18.0	19.1	20.1	23.8	28.5
	VP800C2	.		20.1	28.4	34.8	40.2	44.9	49.2	53.1	56.8	60.2	63.5	75.1	89.8
	VP800C7			3.1	4.4	5.4	6.2	7.0	7.6	8.2	8.8	9.3	9.8	11.6	13.9
	VP800C3			10.8	15.3	18.7	21.6	24.2	26.5	28.6	30.6	32.5	34.2	40.5	48.4
	VP800C4	.		38.3	54.2	66.4	76.7	85.7	93.9	101.4	108.4	115.0	121.2	143.4	171.4
	VP800C5			18.5	26.1	32.0	36.9	41.3	45.2	48.8	52.2	55.4	58.4	69.1	82.5
	VP800C6	.		31.0	43.9	53.8	62.1	69.4	76.0	82.1	87.8	93.1	98.2	116.1	138.8
1-1/4"	VP800D5		100PSI	3.1	4.4	5.4	6.2	7.0	7.6	8.2	8.8	9.3	9.8	11.6	13.9
	VP800D6			5.9	8.3	10.2	11.7	13.1	14.4	15.5	16.6	17.6	18.6	22.0	26.4
	VP800D1			10.5	14.9	18.2	21.1	23.6	25.8	27.9	29.8	31.6	33.3	39.4	47.1
	VP800D2	.		29.1	41.1	50.3	58.1	65.0	71.2	76.9	82.2	87.2	91.9	108.7	130.0
	VP800D3			25.8	36.5	44.7	51.6	57.7	63.2	68.3	73.0	77.4	81.6	96.6	115.4
	VP800D4	.		72.3	102.3	125.3	144.7	161.8	177.2	191.4	205	217	229	271	324
	VP800E1			16.1	22.8	27.9	32.2	36.0	39.5	42.7	45.6	48.4	51.0	60.3	72.1
1-1/2"	VP800E2	.	100PSI	52.3	73.9	90.5	104.5	116.8	128.0	138.3	147.8	156.8	165.2	195.5	234
	VP800E3			29.2	41.3	50.6	58.4	65.3	71.5	77.3	82.6	87.6	92.3	109.3	130.6
	VP800E4	.		121.4	171.7	210	243	272	297	321	343	364	384	454	543
	VP800F1			29.5	41.7	51.1	59.0	65.9	72.2	78.0	83.4	88.5	93.2	110.3	131.9
2"	VP800F2	.	100PSI	76.4	108.0	132.3	152.7	170.8	187.1	202	216	229	242	286	342
	VP800F5			40.3	57.0	69.8	80.6	90.1	98.7	106.6	114.0	120.9	127.5	150.8	180.2
	VP800F3			50.3	71.1	87.1	100.6	112.4	123.1	133.0	142.2	150.8	159.0	188.1	225
	VP800F6			70.7	100.0	122.5	141.4	158.1	173.2	187.1	200	212	224	265	316
	VP800F7			148.5	210	257	297	332	364	393	420	445	470	556	664
	VP800F4	.		188.1	266	326	376	421	461	498	532	564	595	704	841
	VP800G2			31.8	45.0	55.1	63.6	71.2	77.9	84.2	90.0	95.5	100.6	119.1	142.3
2-1/2"	VP800G3		100PSI	38.9	55.0	67.4	77.8	87.0	95.3	102.9	110.0	116.7	123.0	145.5	173.9
	VP800G4			50.9	72.0	88.2	101.8	113.8	124.7	134.7	144.0	152.7	161.0	190.5	228
	VP800G5			71.4	101.0	123.7	142.8	159.7	174.9	189.0	202.0	214.3	225.8	267.2	319
	VP800G6			114.6	162.0	198.4	229	256	281	303.1	324	344	362	429	512
	VP800G7	.		142.8	202	247	286	319	350	378	404	429	452	534	639
	VP800H1			34.6	49.0	60.0	69.3	77.5	84.9	91.7	98.0	103.9	109.6	129.6	155.0
	3"	VP800H2			100PSI	44.5	63.0	77.2	89.1	99.6	109.1	117.9	126.0	133.6	140.9
VP800H3			58.0	82.0		100.4	116.0	129.7	142.0	153.4	164.0	173.9	183.4	217	259
VP800H4			87.7	124.0		151.9	175.4	196.1	215	232	248	263	277	328	392
VP800H5		.	102.5	145.0		177.6	205	229	251	271	290	308	324	384	459