



Ball Valve Flow Characteristics

2 Otter Court, Raymond, New Hampshire 03077 • Tel. (603) 895-4761 • FAX (603) 895-6785

The approximate flow rate through a valve can be calculated as follows:

$$Q = C_v \sqrt{\frac{\Delta P}{G}}$$

- where;
- Q = flow rate in gallons (U.S. Std.) per minute
 - Cv = valve constant
 - P = pressure drop across the valve in pounds per square inch
 - G = specific gravity of the media of relative to water

Note: The values derived from the flow equation are for estimating purposes only. Product variances or systemic factors may alter actual performance.

Approximate Cv Values for Gemini Valves					
Valve Size (inches)	76 Series	86 Series 89 Series (Std. Port)	96 Series 89 Series (Full Port)	98 Series	309 Series
1/4 & 3/8	-	5.5	8	-	-
1/2	5.5	8	12	-	5
3/4	10	12	32	-	5
1	15.5	32	46	-	-
1-1/4	20	46	82	-	-
1-1/2	37	82	120	-	-
2	60	120	-	240	-
3	-	-	-	580	-
