

**Figure 517 ECO-Centric® Round Port
Eccentric Plug Valves**
Percent Open vs. Flow Coefficient (C_v)

GA Industries Figure 517									
ECO-Centric® Round Port Eccentric Plug Valves									
Degrees Open vs. Flow Coefficient									
Size	Degrees Open								
	10	20	30	40	50	60	70	80	90
3"	2	7	43	94	145	216	302	436	569
4"	4	47	115	221	307	467	707	952	982
6"	24	117	242	421	635	893	1241	1666	1997
8"	27	187	431	730	1058	1438	1906	2670	3371
10"	47	227	533	1012	1560	2186	2922	4300	4870
12"	66	367	813	1452	2247	3267	4344	6251	7643
14"	91	377	911	1412	2170	3309	4110	6248	8220
16"	125	518	1252	1941	2984	4549	5650	8589	11300
18"	137	568	1374	2130	3274	4992	6200	9425	12400
20"	193	802	1939	3006	4621	7045	8751	13301	17500

Flow Coefficient (C_v) is the number of US gallons per minute that can pass through a valve at a 1 PSI pressure drop.

It is expressed by the formula: $Q = C_v(P_1 - P_2)^{1/2}$

Where:

Q = Flow, US Gallons per Minute

C_v = Flow Coefficient

(P₁ - P₂) = Pressure Drop, PSI

When the pressure drop is 1 PSI, the square root of 1 is 1 so Q = C_v