

**24" to 72" Series 800 Butterfly Valve
With Replaceable Rubber Seat
Disc Angle vs. Flow Coefficient (C_V)**



GA-S800-HL2 Rev B

DISC ANGLE FROM CLOSED

Size	10°	20°	30°	40°	50°	60°	70°	80°	90°
24"	919	1671	2646	4874	7993	12700	19801	24898	27850
30"	1386	2520	3990	7350	12054	19152	29862	37548	42000
36"	2046	3720	5890	10850	17794	28272	44082	55428	62000
42"	2607	4740	7505	13825	22673	36024	56169	70626	79000
48"	3564	6480	10260	18900	30996	49248	76788	96552	108000
54"	4335	7881	12479	22987	37699	59898	93393	117431	131355
60"	5584	10154	16076	29614	48568	77167	120319	151287	169225
66"	7010	12746	20181	37176	60969	96870	151041	189917	212435
72"	8444	15353	24309	44780	73439	116934	181934	228761	255885

The Flow Coefficient (C_V) of a valve is a relative measure of its efficiency at allowing fluid flow. In more practical terms, the Flow Coefficient (C_V) is the volumetric flow rate of water (in US gallons per minute at 60°F) that will flow through the valve at a 1 PSI pressure drop across the valve.

The formula is $Q = C_V (\Delta P)^{1/2}$ where:

- Q = Flow, US GPM
- C_V = Flow Coefficient
- ΔP = Pressure Drop, PSI