

**PDC Excel Series 40  
Butterfly Valve  
2" thru 60" for High  
Temperature & Dirty Service  
125/150 lb. Flanging**



**Cv Values for PDC Swing Thru Butterfly Valves**

By definition, Cv is the flow coefficient of a control device or flow restriction. Cv is defined as the number of US gallons of 60°F water per minute which will flow through the given restriction with a one pound per square inch pressure drop.

**Cv Values**

(Flow in GPM of 60°F water at 1 psi pressure drop, specific gravity=1)

Valve Size	Disc Angle, Degree								
	10	20	30	40	50	60	70	80	90
2"	2	5	11	20	34	49	64	83	90
2.5"	4	8	20	34	56	84	126	178	194
3"	6	14	30	51	85	132	202	279	370
4"	13	28	54	98	159	257	391	550	747
5"	21	43	88	158	265	429	636	913	1,272
6"	30	63	126	228	382	632	955	1,370	1,999
8"	53	111	225	406	680	1,125	1,698	2,591	3,853
10"	83	174	351	635	1,063	1,759	2,655	4,052	6,361
12"	120	252	506	914	1,531	2,533	3,826	5,835	9,164
14"	143	302	606	1,096	1,835	3,035	4,584	6,992	10,981
16"	191	400	805	1,455	2,436	4,118	6,388	9,835	12,266
18"	244	513	1,032	1,865	3,123	5,279	8,185	12,608	15,725
20"	305	640	1,287	2,326	3,896	6,584	10,209	15,725	19,612
22"	372	781	1,570	2,838	4,753	8,033	12,456	19,186	23,929
24"	445	936	1,882	3,401	5,696	9,626	14,926	22,990	28,674
26"	526	1,105	2,221	4,015	6,723	11,364	17,619	27,139	33,848
28"	613	1,288	2,589	4,679	7,836	13,245	20,536	31,632	39,451

Valve Size	Disc Angle, Degree								
	10	20	30	40	50	60	70	80	90
30"	706	1,485	2,985	5,395	9,035	15,270	23,676	36,468	45,484
32"	800	1,682	3,382	6,112	10,235	17,299	26,823	41,315	51,528
34"	907	1,906	3,832	6,926	11,599	19,603	30,395	46,817	58,392
36"	1,020	2,144	4,311	7,791	13,047	22,052	34,191	52,664	65,684
38"	1,140	2,396	4,818	8,707	14,581	24,644	38,211	58,855	73,405
40"	1,267	2,682	5,352	9,674	16,200	27,380	42,453	65,390	81,555
42"	1,400	2,942	5,915	10,691	17,904	30,260	46,919	72,268	90,134
44"	1,540	3,236	6,507	11,760	19,693	33,284	51,608	79,491	99,143
46"	1,687	3,544	7,126	12,879	21,568	36,453	56,520	87,057	108,508
48"	1,840	3,866	7,774	14,049	23,527	39,765	61,656	94,968	118,446
54"	2,340	4,916	9,885	17,865	29,910	50,566	78,403	120,762	150,617
60"	2,899	6,093	12,250	22,139	37,065	62,663	97,159	149,653	186,650

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