

**Combined Torque Coefficient, Lb-In./PSI
for Standard PDC Swing Thru Valves**

VALVE SIZE	DISC ANGLE, DEGREES								
	0	10	20	30	40	50	60	70	80
2"	.3	.3	.4	.5	.6	.9	1.4	2.3	3
2.5"	.5	.5	.6	.8	1.1	1.5	2.4	4.2	6
3"	.7	.7	1	1.2	1.5	2.4	3.9	7	9
4"	1.7	1.7	2.2	2.8	3.7	5.6	8.5	17	24
5"	2.5	2.5	3.8	4.8	6.5	10	17	30	45
6"	3.8	3.8	5.3	7	10	17	29	52	75
8"	7.5	7.5	13	17	23	38	65	120	180
10"	17	17	25	34	47	79	140	250	370
12"	23	23	38	53	75	130	220	400	600
14"	37	37	60	80	120	190	310	590	850
16"	45	45	80	115	170	260	460	820	1,300
18"	70	70	130	175	260	460	700	1,200	1,800
20"	90	90	160	220	320	507	900	1,600	2,300
22"	122	122	215	297	434	714	1,215	2,156	3,100
24"	159	159	282	391	566	937	1,595	2,828	4,065
26"	205	205	362	499	725	1,202	2,005	3,627	5,215
28"	258	258	456	628	913	1,512	2,525	4,565	6,560
30"	319	319	564	777	1,130	1,872	3,125	5,651	8,120
32"	384	384	680	937	1,362	2,257	3,770	6,814	9,790
34"	464	464	820	1,130	1,644	2,723	4,545	8,219	11,810
36"	554	554	979	1,349	1,961	3,248	5,420	9,806	14,090
38"	654	654	1,157	1,593	2,317	3,838	6,405	11,585	16,645
40"	765	765	1,355	1,866	2,713	4,494	7,500	13,567	19,495
42"	889	889	1,574	2,168	3,152	5,222	8,710	15,763	22,650
44"	1,026	1,026	1,815	2,501	3,636	6,024	10,050	18,184	26,130
46"	1,176	1,176	2,080	2,867	4,168	6,904	11,520	20,814	29,945
48"	1,340	1,340	2,371	3,266	4,749	7,866	13,125	23,746	34,120
54"	1,921	1,921	3,427	4,684	6,809	11,279	18,805	34,050	48,925
60"	2,651	2,651	4,689	6,461	9,394	15,560	25,940	46,973	67,495

*In no case should actuator torque be less than the following values:

Valve Size	Minimum Torque
2" - 6"	50 LB-IN
8" - 14"	120 LB-IN
16" - 24"	200 LB-IN
26" - 30"	300 LB-IN
32" - 38"	400 LB-IN
40" - 48"	500 LB-IN
54"	750 LB-IN
60"	1000 LB-IN

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