



CLASS 300 High Performance Butterfly Valve Series Torques

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CLASS 300 BUTTERFLY VALVE SERIES HP - SEATING / UNSEATING TORQUES(inch/lbs)

SIZE	SOFT SEAT					METAL SEAT					FIRE SAFE SEAT				
inch	290 psi	362 psi	507 psi	580 psi	740 psi	290 psi	362 psi	507 psi	580 psi	740 psi	290 psi	362 psi	507 psi	580 psi	740 psi
2	360	393	450	472	540	741	777	848	884	968	702	736	794	828	909
2.5	382	416	472	495	573	836	884	968	1016	1123	748	782	851	886	967
3	416	461	528	562	641	884	920	992	1028	1111	859	903	974	991	1080
4	618	697	843	910	1090	1267	1350	1506	1577	1768	1082	1139	1243	1300	1427
5	922	1034	1259	1371	1641	1506	1577	1721	1792	1960	1469	1540	1682	1770	1929
6	1270	1405	1664	1787	2102	1924	2055	2306	2426	2724	1841	2009	2230	2337	2655
8	1922	2057	2327	2462	2788	3154	3369	3812	4027	4552	3054	3337	3788	3983	4514
10	3147	3485	4103	4440	5171	5257	5735	6751	7229	8424	4027	4430	5235	5580	6558
12	4552	5114	6238	6800	8149	8663	10096	12904	14278	17624	6558	7651	9723	10758	13232
14	8206	9386	11746	12927	15737	15055	17266	21687	23897	29214	11621	13059	15936	17374	20826
16	11578	13264	16580	18210	22200	19476	22045	27183	29752	35905	15878	17949	22091	24163	29110
18	15231	17704	22650	25122	31080	27004	31186	39550	43732	53768	21229	24393	30721	33828	41422
20	20795	23493	28888	31586	38049	36921	43134	55561	61774	76709	27499	31872	40616	44988	55459
22	26190	29675	36644	40128	48503	44209	50781	63925	70496	86268	34518	39696	50051	55229	67655
24	31698	35857	44175	48334	58338	52215	60400	76769	84954	104609	41191	47405	59831	66044	80945
26	38218	44119	55921	61822	75985	67151	76829	96186	105864	129104	52352	60119	75652	83418	102058
28	44512	51594	65757	72838	89811	79219	90749	113810	125340	153001	62708	71912	90322	99527	121618
30	49458	56202	69691	76435	92621	89136	102638	129641	143143	175524	70877	81577	102978	113679	139337
32	66319	77559	100040	111280	138258	102757	117693	147564	162500	198345	80887	92566	115923	127601	155618
34	79807	92734	118587	131513	162537	131434	150551	188786	207904	253786	102403	118512	150728	166837	205497
36	89362	104255	134042	148936	184681	151746	176241	225229	249724	308511	118512	136921	173740	192150	236333
38	103412	120273	153994	170855	211321	175046	201631	254802	281387	345193	136921	157057	197327	217463	265788
40	115215	133480	170012	188278	232115	192968	221346	278102	306479	374586	156481	180069	227243	250830	307440
42	124207	143597	182376	201766	248302	215073	244347	302895	332169	402426	178918	201067	245365	267514	320672
44	133199	154556	197270	218627	269883	234191	265257	327389	358455	433014	197903	222065	270390	294553	352543
46	150622	175351	224809	249538	308888	262867	294531	357858	389522	465514	219764	244502	293978	318716	378086
48	170855	195584	245042	269771	329120	297518	337545	417601	457628	553694	239900	266651	320154	346905	411108

- **Above torque includes 30% safety factor** for actuator sizing but may vary with the seat material.

This figure is based on the following seat material - Soft seat : PTFE & RTFE(Class 600 : MTFE) , Soft Seat : Teflon (PTFE, RTFE, MTFE, etc) / Metal Seat : SS316 / Fire safe seat : Teflon + SS316

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