



ABZolute High Performance Butterfly Valve

CLASS 150 SEATING/UNSEATING TORQUES (in-lb)

SIZE		SOFT SEAT				METAL SEAT				FIRE SAFE SEAT			
inch	mm	100 psi	150 psi	200 psi	285 psi	100 psi	150 psi	200 psi	285 psi	100 psi	150 psi	200 psi	285 psi
2	50	286	312	345	371	611	644	676	715	611	644	670	702
2.5	65	312	332	371	390	676	728	761	806	644	676	715	748
3	80	325	358	390	423	748	780	819	852	819	865	897	943
4	100	416	481	566	631	1,001	1,073	1,151	1,222	923	975	1,027	1,079
5	125	598	715	826	943	1,242	1,313	1,378	1,450	1,073	1,229	1,391	1,554
6	150	839	988	1,138	1,287	1,463	1,580	1,690	1,807	1,729	1,879	2,028	2,178
8	200	1,437	1,612	1,781	1,957	2,210	2,477	2,737	3,003	2,223	2,529	2,854	3,166
10	250	2,015	2,301	2,587	2,880	3,276	3,855	4,375	4,947	2,529	2,990	3,452	3,913
12	300	2,529	3,166	3,855	4,544	4,141	5,350	6,617	7,826	3,224	4,199	5,181	6,156
14	350	4,316	5,467	6,676	7,826	7,365	9,666	11,967	14,268	5,636	7,423	9,204	10,985
16	400	5,408	7,248	9,087	10,933	9,204	12,142	15,074	18,005	7,020	9,321	11,622	13,923
18	450	7,131	9,893	12,656	15,418	13,579	17,719	21,860	26,007	9,893	12,942	15,997	19,045
20	500	9,490	13,176	16,855	20,540	16,913	22,952	28,997	35,035	11,336	15,360	19,390	23,413
22	550	13,234	17,258	21,288	25,311	20,079	27,268	34,463	41,652	15,880	21,691	27,560	33,365
24	600	15,997	21,171	26,351	31,525	25,311	33,365	41,425	49,478	20,709	27,326	33,943	40,560
26	650	18,408	25,025	31,642	38,259	30,609	40,963	51,318	61,672	25,084	33,254	41,425	49,589
28	700	21,515	29,341	37,167	44,987	38,773	51,142	63,512	75,881	31,759	42,114	52,468	62,823
30	750	27,040	34,515	41,997	49,478	43,147	56,381	69,609	82,843	35,211	46,254	57,298	68,348
32	800	32,214	42,575	52,930	63,284	50,050	65,299	80,542	95,784	41,074	53,846	66,619	79,391
34	850	36,816	49,075	61,328	73,580	61,328	82,615	103,896	125,184	50,050	66,736	83,421	100,100
36	900	42,575	56,667	70,759	84,858	72,144	96,077	120,010	143,943	58,682	78,241	97,799	117,364
38	950	49,478	65,585	81,692	97,799	82,843	111,033	139,224	167,414	66,736	88,998	111,261	133,530
40	1000	58,682	77,669	96,649	115,635	93,197	123,689	154,180	184,672	74,789	100,100	125,418	150,729
42	1050	63,284	83,993	104,702	125,418	104,130	135,772	167,414	199,056	83,993	109,883	135,772	161,662
44	1100	67,886	89,746	111,605	133,471	124,267	157,060	189,846	222,638	101,251	127,829	154,408	180,986
46	1150	73,639	100,100	126,568	153,030	147,277	181,792	216,314	250,829	117,364	146,127	174,889	203,658
48	1200	82,843	112,470	142,097	171,724	167,356	205,036	242,717	280,404	133,471	164,996	196,521	228,046
50	1250	92,047	124,839	157,632	190,424	188,123	227,819	267,514	307,210	149,578	181,792	214,013	246,227
52	1300	101,251	138,645	176,040	213,434	207,110	250,257	293,404	336,551	165,685	202,508	239,324	276,146
54	1350	112,756	154,180	195,605	237,023	235,872	281,899	327,919	373,945	182,943	223,789	264,635	305,481
56	1400	132,321	178,341	224,367	270,394	266,936	318,715	370,494	422,273	212,862	258,882	304,909	350,935
58	1450	153,030	207,682	262,334	316,992	309,511	367,042	424,574	482,099	247,377	291,909	336,434	380,965
60	1500	176,040	249,678	323,317	396,955	356,688	419,965	483,249	546,533	281,899	337,467	393,101	448,734
62	1550	195,605	270,394	345,183	419,965	402,708	477,497	552,286	627,075	316,414	381,999	447,584	513,169
64	1600	218,615	298,006	377,397	456,788	437,229	517,771	598,312	678,854	348,634	414,791	480,948	547,112
66	1650	243,926	333,099	422,273	511,440	485,550	571,844	658,145	744,439	385,450	459,089	532,727	606,366
72	1800	287,651	402,708	517,771	632,827	575,302	677,125	778,954	880,783	455,637	538,480	621,322	704,165

- Torques shown included 30% safety factor.
- All torque values in the table are for the wetted line media. If media is dry then add additional 10% to torque.
- If service is modulating then add additional 10% to torque.
- Torque may vary with the valve material.

This figure is based on the following seat material - Soft seat: PTFE or RTFE, Metal Seat: 316 Stainless steel, Fire safe seat: RTFT & 316 Stainless steel.

Example... 12" valve at 285 psi = 4,544 in-lbs

4,544 + 10% for dry service = 4,544 + 454 = 4,998 in-lbs

4,998 + 10% for modulating service = 4,998 + 454 = 5,452 in-lbs

Series 400 ABZolute Seal