

Flange Bolting - 17-7 PH Stainless Steel (Inch)

Bolt Size	Part Number	Inch Dimensions					Flat Load (lbs)	*Torque (ft-lbs)
		O.D. D _e	I.D. D _i	Thick t	Dish h _o	Height l _o		
1/2"	17-7 -1- 30-7	1.011	0.531	0.130	0.010	0.140	4,070	30
	17-7 -1- 45-7	1.011	0.531	0.148	0.010	0.158	6,006	45
	17-7 -1- 60-7	1.011	0.531	0.156	0.010	0.166	7,033	60
5/8"	17-7 -2- 30-7	1.148	0.640	0.152	0.012	0.164	6,333	60
	17-7 -2- 45-7	1.148	0.640	0.180	0.011	0.191	9,640	90
	17-7 -2- 60-7	1.148	0.640	0.198	0.010	0.208	11,665	120
3/4"	17-7 -3- 30-7	1.370	0.762	0.190	0.013	0.203	9,391	100
	17-7 -3- 45-7	1.370	0.762	0.224	0.012	0.236	14,204	150
	17-7 -3- 60-7	1.370	0.761	0.238	0.012	0.250	17,089	200
7/8"	17-7 -4- 30-7	1.590	0.891	0.220	0.015	0.235	12,566	160
	17-7 -4- 45-7	1.590	0.891	0.265	0.013	0.278	19,033	240
	17-7 -4- 60-7	1.590	0.891	0.294	0.013	0.307	25,991	320
1"	17-7 -5- 30-7	1.810	1.020	0.260	0.016	0.276	17,155	245
	17-7 -5- 45-7	1.810	1.028	0.305	0.015	0.320	26,139	368
	17-7 -5- 60-7	1.810	1.020	0.344	0.014	0.358	34,765	490
1-1/8"	17-7 -6- 30-7	2.025	1.145	0.285	0.020	0.305	22,629	355
	17-7 -6- 45-7	2.025	1.145	0.345	0.017	0.362	34,120	533
	17-7 -6- 60-7	2.025	1.145	0.358	0.016	0.374	35,882	710
1-1/4"	17-7 -7- 30-7	2.310	1.270	0.325	0.023	0.348	28,975	500
	17-7 -7- 45-7	2.309	1.269	0.396	0.019	0.415	43,325	750
	17-7 -7- 60-7	2.310	1.270	0.441	0.018	0.459	56,654	1000
1-3/8"	17-7 -8- 30-7	2.468	1.400	0.357	0.023	0.380	34,532	680
	17-7 -8- 45-7	2.468	1.400	0.441	0.020	0.461	56,603	1,020
	17-7 -8- 60-7	2.470	1.399	0.482	0.019	0.501	70,001	1,360
1-1/2"	17-7 -9- 30-7	2.679	1.524	0.400	0.024	0.424	43,123	800
	17-7 -9- 45-7	2.679	1.524	0.485	0.020	0.505	64,058	1,200
	17-7 -9- 60-7	2.679	1.524	0.534	0.020	0.554	85,501	1,600
1-5/8"	17-7 -10- 30-7	2.950	1.650	0.435	0.027	0.462	50,714	1,100
	17-7 -10- 45-7	2.950	1.650	0.512	0.025	0.537	76,568	1,650
	17-7 -10- 60-7	2.952	1.649	0.588	0.022	0.610	101,811	2,200
1-3/4"	17-7 -11- 30-7	3.170	1.775	0.468	0.030	0.498	60,825	1,500
	17-7 -11- 45-7	3.170	1.775	0.600	0.022	0.622	93,993	2,250
	17-7 -11- 60-7	3.170	1.775	0.693	0.019	0.712	125,076	3,000
1-7/8"	17-7 -12- 30-7	3.390	1.900	0.511	0.030	0.541	69,290	2,000
	17-7 -12- 45-7	3.390	1.900	0.596	0.028	0.624	102,609	3,000
	17-7 -12- 60-7	3.390	1.900	0.649	0.026	0.675	123,026	4,000
2"	17-7 -13- 30-7	3.600	2.040	0.564	0.030	0.594	83,394	2,200
	17-7 -13- 45-7	3.600	2.040	0.695	0.024	0.719	124,837	3,300
	17-7 -13- 60-7	3.600	2.040	0.800	0.021	0.821	166,597	4,400
2-1/4"	17-7 -14- 30-7	4.040	2.290	0.641	0.033	0.674	106,959	3,180
	17-7 -14- 45-7	4.040	2.290	0.785	0.027	0.812	160,733	4,770
	17-7 -14- 60-7	4.040	2.290	0.911	0.023	0.934	214,000	6,360
2-1/2"	17-7 -15- 30-7	4.490	2.535	0.720	0.036	0.756	133,415	4,400
	17-7 -15- 45-7	4.490	2.535	0.876	0.030	0.906	200,234	6,600
	17-7 -15- 60-7	4.490	2.535	1.011	0.026	1.037	266,767	8,800
2-3/4"	17-7 -16- 30-7	4.920	2.785	0.803	0.038	0.841	163,071	5,920
	17-7 -16- 45-7	4.920	2.785	0.974	0.032	1.006	245,060	8,880
	17-7 -16- 60-7	4.920	2.785	1.120	0.028	1.148	326,030	11,840
3"	17-7 -17- 30-7	5.358	3.030	0.903	0.038	0.941	195,367	7,720
	17-7 -17- 45-7	5.358	3.030	1.063	0.035	1.098	293,544	11,580
	17-7 -17- 60-7	5.358	3.030	1.231	0.030	1.261	390,751	15,440
3-1/4"	17-7 -18- 30-7	5.400	3.290	1.335	0.027	1.362	475,270	-----
3-1/2"	17-7 -19- 45-7	6.130	3.530	1.444	0.033	1.477	538,700	-----
3-3/4"	17-7 -20- 60-7	6.665	3.790	1.561	0.036	1.597	620,901	-----
4"	17-7 -21- 60-7	7.130	4.050	2.048	0.032	2.080	1,088,063	-----

-30 denotes 30,000 psi bolt stress
 -45 denotes 45,000 psi bolt stress
 -60 denotes 60,000 psi bolt stress

* Torque values for sizes 1-1/8" and larger are based on the 8-pitch thread series for flanged piping