

**Flange Bolting - Inconel X750 (Inch)**

Bolt Size	Part Number	Inch Dimensions					Flat Load (lbs)	*Torque (ft-lbs)
		O.D. D <sub>e</sub>	I.D. D <sub>i</sub>	Thick t	Dish h <sub>o</sub>	Height l <sub>o</sub>		
1/2"	X750 -1- 30	1.012	0.530	0.131	0.010	0.141	4,406	30
	X750 -1- 45	1.012	0.530	0.157	0.009	0.166	6,386	45
	X750 -1- 60	1.012	0.530	0.180	0.008	0.188	8,573	60
5/8"	X750 -2- 30	1.147	0.640	0.151	0.012	0.163	6,610	60
	X750 -2- 45	1.147	0.640	0.179	0.011	0.190	10,094	90
	X750 -2- 60	1.147	0.640	0.186	0.012	0.198	12,354	120
3/4"	X750 -3- 30	1.368	0.763	0.189	0.013	0.202	9,868	100
	X750 -3- 45	1.368	0.763	0.225	0.013	0.238	16,649	150
	X750 -3- 60	1.368	0.763	0.219	0.015	0.234	17,715	200
7/8"	X750 -4- 30	1.588	0.890	0.219	0.015	0.234	13,199	160
	X750 -4- 45	1.588	0.890	0.264	0.013	0.277	20,040	240
	X750 -4- 60	1.588	0.890	0.281	0.016	0.297	29,742	320
1"	X750 -5- 30	1.811	1.020	0.259	0.016	0.275	17,982	245
	X750 -5- 45	1.811	1.030	0.306	0.015	0.321	28,039	368
	X750 -5- 60	1.811	1.020	0.315	0.018	0.333	36,393	490
1-1/8"	X750 -6- 30	2.024	1.144	0.295	0.020	0.315	26,672	355
	X750 -6- 45	2.024	1.144	0.344	0.017	0.361	35,948	533
	X750 -6- 60	2.024	1.144	0.369	0.018	0.387	46,979	710
1-1/4"	X750 -7- 30	2.308	1.269	0.323	0.024	0.347	31,579	500
	X750 -7- 45	2.308	1.269	0.396	0.020	0.416	48,495	750
	X750 -7- 60	2.308	1.275	0.403	0.025	0.428	64,208	1000
1-3/8"	X750 -8- 30	2.467	1.400	0.375	0.020	0.395	37,007	680
	X750 -8- 45	2.467	1.400	0.463	0.016	0.479	55,721	1,020
	X750 -8- 60	2.467	1.400	0.532	0.014	0.546	74,005	1,360
1-1/2"	X750 -9- 30	2.680	1.525	0.416	0.021	0.437	45,057	800
	X750 -9- 45	2.680	1.525	0.510	0.017	0.527	67,208	1,200
	X750 -9- 60	2.680	1.525	0.585	0.015	0.600	89,545	1,600
1-5/8"	X750 -10- 30	2.950	1.650	0.451	0.024	0.475	53,428	1,100
	X750 -10- 45	2.950	1.650	0.559	0.019	0.578	80,434	1,650
	X750 -10- 60	2.950	1.650	0.638	0.017	0.655	106,995	2,200
1-3/4"	X750 -11- 30	3.170	1.775	0.492	0.025	0.517	62,548	1,500
	X750 -11- 45	3.170	1.775	0.607	0.020	0.627	93,967	2,250
	X750 -11- 60	3.170	1.775	0.692	0.018	0.710	125,305	3,000
1-7/8"	X750 -12- 30	3.390	1.900	0.527	0.027	0.554	72,651	2,000
	X750 -12- 45	3.390	1.900	0.645	0.022	0.667	108,530	3,000
	X750 -12- 60	3.390	1.900	0.746	0.019	0.765	145,016	4,000
2"	X750 -13- 30	3.598	2.025	0.566	0.028	0.594	83,151	2,200
	X750 -13- 45	3.598	2.025	0.692	0.023	0.715	124,826	3,300
	X750 -13- 60	3.598	2.025	0.798	0.020	0.818	166,455	4,400
2-1/4"	X750 -14- 30	4.040	2.280	0.642	0.031	0.673	106,808	3,180
	X750 -14- 45	4.040	2.280	0.790	0.025	0.815	160,494	4,770
	X750 -14- 60	4.040	2.280	0.907	0.022	0.929	213,739	6,360
2-1/2"	X750 -15- 30	4.490	2.530	0.713	0.035	0.748	133,555	4,400
	X750 -15- 45	4.490	2.530	0.879	0.028	0.907	200,193	6,600
	X750 -15- 60	4.490	2.530	1.018	0.024	1.042	266,550	8,800
2-3/4"	X750 -16- 30	4.920	2.780	0.795	0.037	0.832	163,391	5,920
	X750 -16- 45	4.920	2.780	0.975	0.030	1.005	244,377	8,880
	X750 -16- 60	4.920	2.780	1.126	0.026	1.152	326,222	11,840
3"	X750 -17- 30	5.358	3.030	0.863	0.041	0.904	195,424	7,720
	X750 -17- 45	5.358	3.030	1.062	0.033	1.095	293,123	11,580
	X750 -17- 60	5.358	3.030	1.221	0.029	1.250	391,478	15,440
3-1/4"	X750 -18- 60	5.400	3.290	1.330	0.025	1.355	462,152	-----
3-1/2"	X750 -19- 60	6.130	3.540	1.443	0.031	1.474	537,758	-----
3-3/4"	X750 -20- 60	6.665	3.790	1.544	0.035	1.579	620,409	-----
4"	X750 -21- 60	7.130	4.050	2.051	0.030	2.081	1,088,152	-----

-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