
Suggested Titan Hydraulic Torque Wrench Tooling for smaller API Flanges

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suggested make up torque, FT LBS	bolt size	nut size	NUT A/F B	API FLG SIZE	STUD CIRC BC	FLG NECK C	NECK & NUT	BONNET OD A	BEARING CAP OD E	FLG ADP OD F	BONNET TO STEM HEIGHT G	BEARING CAP TO BONNET H	GV BONNET	Hydraulic Torque Wrench Model
							CLEARANCE							
111	5/8"	1-1/16"	1.062	2-1/16" 2K	5.000	3.250	0.344	only available for FL					2-1/16" 2K	N/A
197	3/4"	1-1/4"	1.25	1-13/16" 10K	5.750	3.500	0.500	8.940	3.600	1.493	8.886	6.920	2-9/16" 2K	T1/LP2
				2-1/16" 10K	6.250	3.937	1.157	9.000	3.600	1.493	8.448	6.482	3-1/16" 2K	T1/LP2
				3-1/8" 2K	6.625	4.625	1.000	only available for FL						T1/LP2
318	7/8"	1-7/16"	1.438	2-1/16" 3K	6.500	4.120	0.471	same as 2-1/16" 5K					2-1/16" 3K	T1/LP2
				2-1/16" 5K	6.500	4.130	1.185	6.880	3.600	1.493	9.326	7.360	2-1/16" 5K	T1/LP2
				2-1/16" 15K	6.875	4.375	1.250	9.500	3.600	1.493	8.636	6.670	3-1/16" 3K	T1/LP2
				3-1/8" 3K	7.500	5.250	1.125	8.380	3.600	1.493	9.326	7.360	4-1/16" 2K	T1/LP2
				4-1/16" 2K	8.500	6.250	1.125	only available for FL						
477	1"	1-5/8"	1.625	2-9/16" 5K	7.500	4.875	0.500	7.880	3.600	1.493	9.196	7.230	2-9/16" 3K	T1/LP2
				2-9/16" 15K	7.875	5.062	1.407	11.250	4.120	1.492	8.866	6.895	2-9/16" 5K	T1/LP2
				3-1/8" 10K	8.500	5.593	1.454	10.120	4.120	1.492	8.675	6.704		T1/LP2
				5-1/8" 2K	10.500	7.875	1.313	only available for FL						T1/LP2
				7-1/16" 2K	11.500	8.875	1.313	not available						T1/LP2
700	1-1/8"	1-13/16"	1.812	3-1/8" 5K	8.000	5.375	0.407	9.120	3.600	1.493	8.946	6.980	1-13/16" 10K	T1/LP2
				3-1/8" 15K	9.062	6.062	1.500	12.880	4.120	1.492	8.366	6.281	2-1/16" 10K	T1/LP2
				4-1/16" 3K	9.250	6.625	1.313	10.380	3.600	1.493	9.076	7.110	2-1/16" 15K	T1/LP2
				4-1/16" 10K	10.188	7.188	1.500	12.690	4.120	1.492	8.176	6.205	3-1/16" 5K	T1/LP2
				5-1/8" 10K	11.813	8.813	1.500	14.500	5.110	1.492	9.409	7.620	4-1/16" 3K	T1/LP2
				7-1/16" 3K	12.500	9.875	1.313	12.620	4.120	1.492	9.862	7.895		T1/LP2
984	1-1/4"	2"	2	4-1/16" 5K	9.500	6.500	0.500	10.810	3.600	1.493	8.576	6.610	1-13/16" 15K	T1/LP2
				5-1/8" 3K	11.000	8.000	1.500	11.000	4.120	1.492	8.396	6.425	2-9/16" 10K	T1/LP2
													4-1/16" 5K	T1/LP2
1335	1-3/8"	2-3/16"	2.187	4-1/16" 15K	11.438	7.688	0.782	14.500	8.000	1.500			3-1/16" 10K	T3/LP4
				7-1/16" 5K	12.500	9.250	1.625	17.130	8.000	1.500	8.676	6.705	5-1/8" 5K	T3/LP4
													6-3/8" 5K	T3/LP4
1762	1-1/2"	2-3/8"	2.375	5-1/8" 5K	11.500	8.125	0.500	11.500	4.120	1.492	8.396	6.425	2-9/16" 15K	T3/LP4
													5-1/8" 10K	T3/LP4
2278	1-5/8"	2-9/16"	2.563	9" 5K	15.500	11.625	0.656	23.000	8.000	1.500	17.237	11.884	3-1/16" 15K	T3/LP4
													4-1/16" 10K	T3/LP4