



ASTM A354-BD / SAE GRADE 8					
Bolt Size	TPI	Proof Load (lbs)	Clamp Load (lbs)	Tightening Torque (ft lbs)	
				Lubricated	Plain
1/4"	20	3,800	2,850	6	12
5/16"	18	6,300	4,725	12	25
3/8"	16	9,300	6,975	22	44
7/16"	14	12,750	9,563	35	70
1/2"	13	17,050	12,788	53	107
9/16"	12	21,850	16,388	77	154
5/8"	11	27,100	20,325	106	212
3/4"	10	40,100	30,075	188	376
7/8"	9	55,450	41,588	303	606
1"	8	72,700	54,525	454	909
1 1/8"	7	91,550	68,663	644	1,287
1 1/4"	7	120,000	90,000	938	1,875
1 3/8"	6	138,600	103,950	1,191	2,382
1 1/2"	6	168,600	126,450	1,581	3,161
1 3/4"	5	228,000	171,000	2,494	4,988
2"	4 1/2	300,000	225,000	3,750	7,500
2 1/4"	4 1/2	390,000	292,500	5,484	10,969
2 1/2"	4	480,000	360,000	7,500	15,000
2 3/4"	4	517,650	388,238	8,897	17,794
3"	4	626,850	470,138	11,753	23,507
3 1/4"	4	745,500	559,125	15,143	30,286
3 1/2"	4	874,650	655,988	19,133	38,266
3 3/4"	4	1,014,300	760,725	23,773	47,545
4"	4	1,163,400	872,550	29,085	58,100

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