

Proof Load Values

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SAE J995 Grade 2 & ASTM A563 Grade A Hex & Square Nuts Plain & Plated Size PSI Pounds 1/4-20 90,000 2862 5/16-18 90,000 4716 3/8-16 90,000 6975 7/16-14 90,000 9567 1/2-13 90,000 12,771 9/16-12 90,000 16,380	ASTM A56	2162 3563 5270 7228 9649	Hex	Flated Pounds 3816 6288 9300 21,756	Hex	Founds Additional Pounds Addit	Pla PSI 180,000 180,000	ick Nuts ted Pounds - 5724 - 9432
Hex & Square Nuts Plain & Plated	Hex Hot-Dip G PSI 68,000 68,000 68,000 68,000 68,000	Nuts ialvanized Pounds 2162 3563 5270 7228 9649	Plain & PSI NC Thread 120,000 120,000 120,000 120,000	Plated Pounds 3816	Hex Plain & PSI 150,000 150,000	Plated Pounds 4770 7860	Pla PSI 180,000 180,000	Pounds 5724
Plain & Plated Size PSI Pounds 1/4-20 90,000 2862 5/16-18 90,000 4716 3/8-16 90,000 6975 7/16-14 90,000 9567 1/2-13 90,000 12,771	68,000 68,000 68,000 68,000 68,000 68,000	2162 3563 5270 7228 9649	Plain & PSI NC Thread 120,000 120,000 120,000 120,000	Plated Pounds \$ 3816	Plain & PSI 150,000 150,000	Plated Pounds 4770 7860	Pla PSI 180,000 180,000	Pounds 5724
Size PSI Pounds 1/4-20 90,000 2862 5/16-18 90,000 4716 3/8-16 90,000 6975 7/16-14 90,000 9567 1/2-13 90,000 12,771	68,000 68,000 68,000 68,000 68,000 68,000	2162 3563 5270 7228 9649	PSI NC Thread 120,000 120,000 120,000	Pounds 3816 6288 9300	150,000 150,000	4770 7860	180,000 180,000	Pounds 5724
1/4-20 90,000 2862 5/16-18 90,000 4716 3/8-16 90,000 6975 7/16-14 90,000 9567 1/2-13 90,000 12,771	68,000 68,000 68,000 68,000 68,000	2162 3563 5270 7228 9649	120,000 120,000 120,000 120,000	3816 6288 9300	150,000 150,000	4770 7860	180,000 180,000	5724
5/16-18 90,000 4716 3/8-16 90,000 6975 7/16-14 90,000 9567 1/2-13 90,000 12,771	68,000 68,000 68,000 68,000	2162 3563 5270 7228 9649	120,000 120,000 120,000 120,000	3816 6288 9300	150,000	7860	180,000	· – – – – 1
5/16-18 90,000 4716 3/8-16 90,000 6975 7/16-14 90,000 9567 1/2-13 90,000 12,771	68,000 68,000 68,000 68,000	3563 5270 7228 9649	120,000 120,000 120,000	6288 9300	150,000	7860	180,000	· – – – – 1
3/8-16 90,000 6975 7/16-14 90,000 9567 1/2-13 90,000 12,771	68,000 68,000 68,000 68,000	5270 7228 9649	120,000 120,000	9300				7732
7/16-14 90,000 9567 1/2-13 90,000 12,771	68,000 68,000 68,000	7228 9649	120,000	. – – – – 1	130,000		180,000	13,950
1/2-13 90,000 12,771	68,000 68,000	9649			150,000	15,945	180,000	19,134
	68,000		1 /(1 (1(1))	17,028	150,000	21,285	180,000	25,542
	.	12,376	120,000	21,840	150,000	27,300	180,000	32,760
5/8-11 90,000 20,340		15,368	120,000	27,120	150,000	33,900	180,000	40,680
3/4-10 90,000 30,060	68,000	22,712	120,000	40,080	150,000	50,100	180,000	60,120
7/8-9 90,000 41,580	68,000	31,416	120,000	55,440	150,000	69,300	180,000	83,160
1-8 90,000 54,540	68,000	41,208	120,000	72,720	150,000	90,900	180,000	109,080
1 1/8-7 90,000 68,670	68,000	51,884	105,000	80,115	150,000	114,450	180,000	137,340
1 1/4-7 90,000 87,210	68,000	65,892	105,000	101,745	150,000	145,350	180,000	174,420
13/8-6 90,000 103,950	68,000	78,450	105,000	121,275	150,000	173,250		
1 1/2-6 90,000 126,450	68,000	95,540	105,000	147,525	150,000	210,750		
1 3/4-5 90,000	68,000							
2-4 1/2 90,000	68,000							
	•		NF Thread	s				
1/4-28 80,000 2912			109,000	3968	150,000	5460	180,000	6552
5/16-24 80,000 4640			109,000	6322	150,000	8700	180,000	10,440
3/8-24 80,000 7024			109,000	9570	150,000	13,170	180,000	15,804
7/16-20 80,000 9496			109,000	12,938	150,000	17,805	180,000	21,366
1/2-20 80,000 12,792			109,000	17,429	150,000	23,985	180,000	28,782
9/16-18 80,000 16,240			109,000	22,127	150,000	30,450	180,000	36,540
5/8-18 80,000 20,480			109,000	27,904	150,000	38,400	180,000	46,080
3/4-16 80,000 29,840			109,000	40,657	150,000	55,950	180,000	67,140
7/8-14 80,000 40,720			109,000	55,481	150,000	76,350	180,000	91,620
1-12 80,000 53,040	_	<u> </u>	109,000	72,267	150,000	99,450		
1-14 80,000 54,320			109,000	74,011	150,000	101,850	180,000	122,220
1 1/8-12 80,000 68,480		_ 	94,000	80,464	150,000	128,400		_
1 1/4-12 80,000 85,840	_	<u> </u>	94,000	100,862	150,000	160,950		
1 3/8-12 80,000 105,200			94,000	123,610	150,000	197,250		
1 1/2-12 80,000 216,480			94,000	148,614	150,000	237,150		

Proof Load:

Axially-applied load using a bolt or mandrel that must be supported by a nut without evidence of thread stripping or rupture.



Proof Load Values

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	ASTM A194 Grade		ASTM A563 Grade		ASTM A563 Grade		ASTM A563 Grade C				
	2H Heavy Hex Nuts		DH Heavy Hex Nuts		DH Heavy Hex Nuts		Heavy Hex Nuts				
•	Plain, Plated, & HDG		Plain and Plated		Hot-Dip Galvanized		Plain and Plated				
Size	PSI	Pounds	PSI	Pounds	PSI	Pounds	PSI	Pounds			
NC Threads											
1/4-20	175,000	5565									
5/16-18	175,000	9170						[
3/8-16	175,000	13,562									
7/16-14	175,000	18,602									
1/2-13	175,000	24,832	175,000	24,832	150,000	21,285	144,000	20,433			
9/16-12								[
5/8-11	175,000	39,550	175,000	39,550	150,000	33,900	144,000	32,544			
3/4-10	175,000	58,450	175,000	58,450	150,000	50,100	144,000	49,536			
7/8-9	175,000	80,850	175,000	80,850	150,000	69,300	144,000	66,528			
1-8	175,000	106,050	175,000	106,050	150,000	90,900	144,000	87,264			
1 1/8-7	175,000	133,525	175,000	133,525	150,000	114,450	144,000	109,872			
1 1/4-7	175,000	169,575	175,000	169,575	150,000	145,350	144,000	139,536			
1 3/8-6	175,000	202,125	175,000	202,125	150,000	173,250	144,000	166,320			
1 1/2-6	175,000	245,875	175,000	245,875	150,000	210,750	144,000	202,320			
1 3/4-5	175,000	332,500	175,000	332,500	150,000	285,000	144,000	273,600			
2-4 1/2	175,000	437,500	175,000	437,500	150,000	375,000	144,000	360,000			
				NF Thread	s			'			
1/4-28							125,000	4550			
5/16-24							125,000	7250			
3/8-24							125,000	11,000			
7/16-20							125,000	14,850			
1/2-20							125,000	20,000			
9/16-18							125,000	25,400			
5/8-18							125,000	32,000			
3/4-16							125,000	46,650			
7/8-14							125,000	63,650			
1-12							125,000	82,900			
1-14							125,000	84,900			
1 1/8-12							125,000	107,000			
1 1/4-12							125,000	134,150			
1 3/8-12							125,000	164,400			
1 1/2-12							125,000	197,650			
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Proof Load:

Axially-applied load using a bolt or mandrel that must be supported by a nut without evidence of thread stripping or rupture.