

Proof Load

Proof Load values for common nuts.

Page (1 of 2)

Size	SAE J995 Grade 2 & ASTM A563 Grade A Hex & Square Nuts		ASTM A563 Grade A Hex Nuts		SAE J995 Grade 5 Hex Nuts		SAE J995 Grade 8 Hex Nuts		PFC9 Thick Nuts	
	Plain & Plated		Hot-Dip Galvanized		Plain & Plated		Plain & Plated		Plated	
	PSI	Pounds	PSI	Pounds	PSI	Pounds	PSI	Pounds	PSI	Pounds
NC Threads										
1/4-20	90,000	2862	68,000	2162	120,000	3816	150,000	4770	180,000	5724
5/16-18	90,000	4716	68,000	3563	120,000	6288	150,000	7860	180,000	9432
3/8-16	90,000	6975	68,000	5270	120,000	9300	150,000	11,625	180,000	13,950
7/16-14	90,000	9567	68,000	7228	120,000	21,756	150,000	15,945	180,000	19,134
1/2-13	90,000	12,771	68,000	9649	120,000	17,028	150,000	21,285	180,000	25,542
9/16-12	90,000	16,380	68,000	12,376	120,000	21,840	150,000	27,300	180,000	32,760
5/8-11	90,000	20,340	68,000	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
1 3/8-6	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 Threads										
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			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			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.

The information presented in this chart is believed to be accurate at the time of publication. However, Porteous Fastener Company is not responsible for any claim traceable to any errors (typographical or otherwise) as contained herein. Porteous Fastener Company makes no warranties as to the accuracy of this information. Reliance on information listed for any purpose by anyone is at the sole risk of that person and Porteous Fastener Company is not responsible for any claim, loss, or damage arising therefrom.