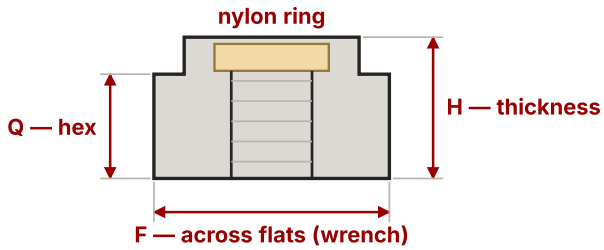
Nylon-Insert Lock Nut Dimensions

jandesupply.com/reference-nylon-insert-lock-nut-dimensions.php

J & E Supply & FASTENER CO.

Wrench size, thickness and hex height for nylon-insert hex lock nuts (NE, standard height), 1/4″ to 1-1/2″. ASME B18.16.6.

A nylon-insert lock nut (“nylock”) is a hex nut with a nylon ring in its top. When the bolt reaches the ring, the threads cut into the nylon for a tight fit that holds the nut against vibration. The nut is taller than a plain hex nut to make room for the ring — and at 7/16″ and from 3/4″ up it uses a **light hex**, so it takes a **smaller wrench** than a hex nut of the same size.



Letters match the table columns: **F** across flats (the wrench), **H** overall thickness, **Q** hex (wrenching) height.

Nylon-insert lock nuts, NE — ASME B18.16.6 (inches)

SIZE	WRENCH F	F MAX / MIN	THICKNESS H MAX / MIN	HEX HEIGHT Q MIN
1/4″	7/16″	.439 / .430	**.328** / .298	.225
5/16″	1/2″	.502 / —	**.359** / .329	.250
3/8″	9/16″	.564 / —	**.468** / .438	.335
7/16″	5/8″	.627 / .616	**.468** / .438	.324
1/2″	3/4″	.752 / —	**.609** / .579	.464
9/16″	7/8″	.877 / —	**.656** / .626	.469
5/8″	15/16″	.940 / —	**.765** / .735	.593
3/4″	1-1/16″	1.064 / 1.052	**.890** / .860	.742
7/8″	1-1/4″	1.252 / 1.239	**.999** / .969	.790
1″	1-7/16″	1.440 / 1.427	**1.078** / 1.016	.825
1-1/8″	1-5/8″	1.627 / 1.614	**1.203** / 1.141	.930
1-1/4″	1-13/16″	1.815 / 1.801	**1.422** / 1.360	1.125
1-1/2″	2-3/16″	2.197 / 2.159	**1.640** / 1.578	1.313

Smaller wrench than a standard hex nut: 7/16″ takes 5/8″ (a hex nut: 11/16″), 3/4″ takes 1-1/16″ (a hex nut: 1-1/8″), 7/8″ takes 1-1/4″ (a hex nut: 1-5/16″), 1″ takes 1-7/16″ (a hex nut: 1-1/2″), 1-1/8″ takes 1-5/8″ (a hex nut: 1-11/16″), 1-1/4″ takes 1-13/16″ (a hex nut: 1-7/8″), 1-1/2″ takes 2-3/16″ (a hex nut: 2-1/4″). Same nut for coarse and fine thread. A dash: our two sources differ — give us a call at 405-670-1234.

Thin (jam) nylon-insert lock nuts, NTE (inches)

SIZE	WRENCH F	F MAX / MIN	THICKNESS H MAX / MIN	HEX HEIGHT Q (REF)
#2	1/4″	.251 / .243	**.124** / .094	.075
#4	1/4″	.251 / .243	**.124** / .094	.075
#6	5/16″	.313 / .305	**.140** / .110	.090
#8	11/32″	.345 / .336	**.187** / .157	.110
#10	3/8″	.376 / .367	**.187** / .157	.110
#12	7/16″	.439 / .430	**.218** / .188	.125
1/4″	7/16″	.439 / .430	**.218** / .188	.125
5/16″	1/2″	.502 / .492	**.265** / .235	.158
3/8″	9/16″	.564 / .553	**.281** / .251	.150
7/16″	5/8″	.627 / .615	**.328** / .298	.225
1/2″	3/4″	.752 / .741	**.328** / .298	.190
9/16″	7/8″	.877 / .865	**.374** / .344	.225
5/8″	15/16″	.940 / .928	**.406** / .376	.265
3/4″	—	— / 1.052	**.421** / .391	.288

SIZE	WRENCH F	F MAX / MIN	THICKNESS H MAX / MIN	HEX HEIGHT Q (REF)
1"	1-7/16"	1.440 / 1.427	**.578** / .516	.405

A thinner nylon-insert nut for tight spots and jam use. A dash: our two sources differ — give us a call.

Heavy nylon-insert lock nuts, NU (inches)

SIZE	WRENCH F	F MAX / MIN	THICKNESS H MAX / MIN	HEX HEIGHT Q
1/4"	1/2"	.503 / .489	**.390** / .360	—
5/16"	9/16"	.566 / .551	**.453** / .423	—
3/8"	11/16"	.691 / .675	**.562** / .532	—
1/2"	7/8"	.879 / .861	**.718** / .688	—
5/8"	1-1/16"	1.067 / 1.045	**.874** / .844	—
3/4"	—	— / 1.231	**1.015** / .985	—
7/8"	1-7/16"	1.444 / 1.417	**1.140** / 1.110	—
1"	1-5/8"	1.632 / 1.602	**1.312** / 1.250	—
1-1/4"	2"	2.008 / 1.973	**1.672** / 1.610	—
1-3/4"	2-3/4"	2.762 / 2.715	**2.376** / 2.250	—
2"	3-1/8"	3.137 / 3.086	**2.469** / 2.343	—

Heavy hex: a bigger wrench and a thicker nut than the NE. A dash: our two sources differ — give us a call.

Number-size nylon-insert lock nuts, NE (inches)

SIZE	WRENCH F	F MAX / MIN	THICKNESS H MAX / MIN	HEX HEIGHT Q
#4	1/4"	.251 / —	**.153** / —	—
#6	5/16"	.313 / —	**.188** / —	—
#8	11/32"	.345 / —	**.239** / —	—
#10	3/8"	.376 / —	**.249** / —	—
#12	7/16"	.439 / —	**.328** / —	—

Maximum sizes (one of our sources gives maximums only).

Good to know

The nylon ring has a temperature limit, so for hot work use an all-metal lock nut — ask us for the rating. Other lock nuts and nut styles are on Nut Types & When to Use Them; standard hex nuts on the hex nut chart.

Quick answers

What size wrench fits a 3/8" nylock nut?

A 3/8" nylon-insert lock nut takes a **9/16"** wrench.

What wrench size goes with each nylon-insert lock nut size?

1/4" – 7/16", 5/16" – 1/2", 3/8" – 9/16", 7/16" – 5/8", 1/2" – 3/4", 9/16" – 7/8", 5/8" – 15/16", 3/4" – 1-1/16", 7/8" – 1-1/4", 1" – 1-7/16", 1-1/8" – 1-5/8", 1-1/4" – 1-13/16", 1-1/2" – 2-3/16".

Why does my 3/4" nylock nut take a smaller wrench than a 3/4" hex nut?

Nylon-insert lock nuts at 7/16" and from 3/4" up use a light hex: a 3/4" one takes 1-1/16", a 3/4" hex nut takes 1-1/8".

How thick is a 1/2" nylon-insert lock nut?

.579–.609" (ASME B18.16.6, standard height).

Reference values drawn from the governing standards. For critical applications, confirm against the standard and the manufacturer's published data. Technical information disclaimer →