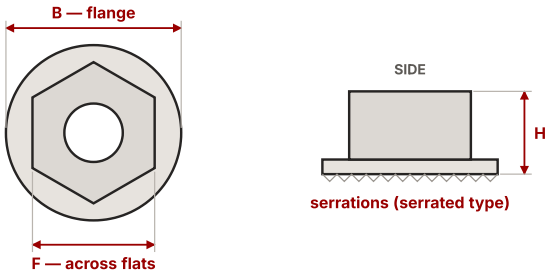
Hex Flange Nut Dimensions

jandesupply.com/reference-hex-flange-nut-dimensions.php

J & E Supply & FASTENER CO.

Wrench size, across corners, flange diameter and thickness for inch hex flange nuts, serrated and smooth, #10 to 3/4″. ASME B18.2.2.

A flange nut is a hex nut with a wide round **flange** built onto its bottom, so it works as its own washer. The **serrated** type has teeth under the flange that bite the mating surface and resist loosening; the **smooth** type doesn't. Both are the same size and take the same wrench.



Letters match the table columns: **F** across flats (the wrench), **G** across corners, **B** flange diameter, **H** thickness, **K** flange thickness.

Hex flange nuts, serrated and smooth — ASME B18.2.2 (inches)

SIZE	WRENCH F	F MAX / MIN	CORNERS G MAX / MIN	FLANGE B MAX / MIN	THICKNESS H MAX / MIN	FLANGE K MIN
#10	3/8″	.375 / .365	.433 / .416	**.500** / .480	**.219** / .203	.03
1/4″	7/16″	.438 / .428	.505 / .488	**.594** / .574	**.236** / .222	.04
5/16″	1/2″	.500 / .489	.577 / .557	**.680** / .660	**.283** / .268	.04
3/8″	9/16″	.562 / .551	.650 / .628	**.750** / .728	**.347** / .330	.04
7/16″	11/16″	.688 / .675	.794 / .768	**.937** / .910	**.395** / .375	.04
1/2″	3/4″	.750 / .736	.866 / .840	**1.031** / 1.000	**.458** / .437	.05
5/8″	15/16″	.938 / .922	1.083 / 1.051	**1.281** / 1.248	**.569** / .545	.05
3/4″	1-1/8″	1.125 / 1.088	1.299 / 1.240	**1.500** / 1.460	**.675** / .627	.06

Same sizes for serrated and smooth flange nuts, and the same wrench as a standard hex nut of the same size.

Serrated or smooth?

The teeth under a serrated flange press into the surface under them as the nut is tightened, which resists loosening. A smooth flange just spreads the load. Standard hex nuts are on the hex nut chart; more nut styles on Nut Types & When to Use Them.

Quick answers

What size wrench fits a 3/8" flange nut?
A 3/8″ hex flange nut takes a **9/16″** wrench.

What wrench size goes with each flange nut size?
#10 – 3/8″, 1/4″ – 7/16″, 5/16″ – 1/2″, 3/8″ – 9/16″, 7/16″ – 11/16″, 1/2″ – 3/4″, 5/8″ – 15/16″, 3/4″ – 1-1/8″.

How big is the flange on a 1/2" flange nut?
1.000–1.031″ across (ASME B18.2.2).

Are serrated and smooth flange nuts the same size?
Yes — same across the flats, flange and thickness. The serrated one has teeth under the flange to resist loosening.

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