



Preferred Parts

Number:	E-100
Date Issued:	A-JUN06

ELECTRONIC DOCUMENT IN THE VIEWER IS CONTROLLED. PRINTED COPY IS AN UNCONTROLLED DOCUMENT.

HEX FLANGE NUTS AND LARGE HEX FLANGE NUTS
NON-LOCKING
(Superseded)

This standard has been superseded by CNH Standard Parts, STPE160 (87366956), Hexagon Nuts - Inch Flange ZND Grade 5 - Non-Preferred.

The controlled versions of CNH specifications and standards are published on the CNH Intranet site.

The documents are also available on the CNH electronic viewing system (e.g. eViewer). Suppliers are able to access these documents on CSCN (CNH Supplier Communications Network).

The superseded standard remains available for viewing following this page if needed. For information about superseded standards refer to ENS0050 (87523699).

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GENERAL SPECIFICATIONS

GENERAL: There is no national or international standard for non-locking hex flange nuts. The Industrial Fasteners Institute (IFI) has published a guide for hex flange nuts and large hex flange nuts which manufacturers use as a guide.

PREFERRED PARTS POLICY: Preferred parts are so designated to reduce variety of parts and assure maximum availability, interchangeability, and cost savings in volume buying.

Threads: Coarse
Sizes: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4

Material & Finish: Grade 5 Zinc with Chromate (ZND)
Grade 8 Phosphate Coating (PHC)

DIMENSIONS: All dimensions in this standard are in inches. All unspecified detail shall conform to IFI reaffirmed 1970 issue.

THREADS: Threads shall be Unified Series, Class 2B, in accordance with American National Standards ANSI B1.1.

MATERIAL: Steel nuts, grade 5 or 8, shall conform to SAE J995.

MARKING: Grade 8 shall be marked with six symmetrically spaced identical symbols on the top side of the flange. Additional marks or alterations of one or more of the six grade symbols shall be used to identify the manufacturer. Marks may be raised or depressed at manufacturer's option.

FINISH: As designated by part number, nuts shall be furnished plain, plated, or coated in accordance with Case Engineering Materials Specification:

Phosphate Coating	(PHC) - MS 91
Zinc with Chromate	(ZND) - MS 201
Cadmium	(CAD) - MS 206 *Not Recommended

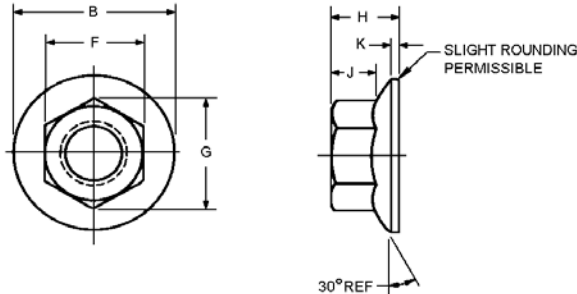
WORKMANSHIP: Nuts shall be free from burrs, seams, laps, loose scale, irregular surfaces, and any defects affecting their serviceability.

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HEX FLANGE NUTS AND LARGE HEX FLANGE NUTS NON-LOCKING

(Superseded)



HEX FLANGE NUTS

Nominal Size or Basic Major Diameter of Thread	F		G		B		H		J	K
	Width Across Flats		Width Across Corners		Flange Diameter		Nut Thickness		Wrenching Length	Flange Thickness
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
6 0.138	0.312	0.302	0.361	0.342	0.422	0.406	0.171	0.156	0.10	0.02
8 0.164	0.344	0.334	0.397	0.381	0.469	0.452	0.203	0.187	0.13	0.02
10 0.190	0.375	0.365	0.433	0.416	0.500	0.480	0.219	0.203	0.13	0.03
12 0.216	0.438	0.428	0.505	0.488	0.594	0.574	0.236	0.222	0.14	0.04
1/4 0.250	0.438	0.428	0.505	0.488	0.594	0.574	0.236	0.222	0.14	0.04
5/16 0.312	0.500	0.489	0.577	0.557	0.680	0.660	0.283	0.268	0.17	0.04
3/8 0.375	0.562	0.551	0.650	0.628	0.750	0.728	0.347	0.330	0.23	0.04
7/16 0.438	0.688	0.675	0.794	0.768	0.937	0.910	0.395	0.375	0.26	0.04
1/2 0.500	0.750	0.736	0.866	0.840	1.031	1.000	0.458	0.437	0.31	0.05
9/16 0.562	0.875	0.861	1.010	0.982	1.188	1.155	0.506	0.483	0.35	0.05
5/8 0.625	0.938	0.922	1.083	1.051	1.281	1.248	0.569	0.545	0.40	0.05
3/4 0.750	1.125	1.088	1.299	1.240	1.500	1.460	0.675	0.627	0.46	0.06

NON-STANDARD HEX FLANGE NUTS

7/8 0.875	1.312	1.269	1.516	1.465	1.750	1.700	0.787	0.737	---	---
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LARGE HEX FLANGE NUTS

Nominal Size or Basic Major Diameter of Thread	F		G		B		H		J	K
	Width Across Flats		Width Across Corners		Flange Diameter		Nut Thickness		Wrenching Length	Flange Thickness
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1/4 0.250	0.438	0.428	0.505	0.488	0.728	0.700	0.312	0.281	0.15	0.04
5/16 0.312	0.500	0.489	0.577	0.557	0.820	0.790	0.375	0.343	0.20	0.04
3/8 0.375	0.562	0.551	0.650	0.628	0.915	0.885	0.406	0.390	0.24	0.04
7/16 0.438	0.688	0.675	0.794	0.768	1.131	1.100	0.468	0.437	0.26	0.04
1/2 0.500	0.750	0.736	0.866	0.840	1.205	1.175	0.515	0.485	0.29	0.06
9/16 0.562	0.875	0.861	1.010	0.982	1.300	1.260	0.578	0.546	0.37	0.06
5/8 0.625	0.938	0.922	1.083	1.051	1.360	1.280	0.640	0.600	0.42	0.06