



Standard Part

Hexagon Flange Nuts - Pref & Non-Pref

STPE530

87306559

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1. SCOPE

The fasteners defined by this specification are preferred and non-preferred metric thread Hex Flange Nuts.

When a standard is referenced in a drawing or specification, it is understood that the reference is to the latest revision of the standard, unless stated otherwise.

2. PART DESCRIPTION

Typical part description for BOM's and CAD drawings entered by Standards.

NUT, FLANGE, M12 10 ZND

For cross reference listing of company part numbers, go to [PARTsolutions](#).

3. RELATED DOCUMENTS

3.1 REFERENCE STANDARDS

CNH STPA020—Fastener Finishes and Material Specifications

CNH MAT0310—Zinc Plating

SAE J122—Surface Discontinuities on Nuts

SAE J995—Mechanical and Material Requirements for Steel Nuts

ISO 4161—Hexagon Nuts with Flange—Coarse thread

ISO 10663—Hexagon Nuts with Flange—Fine pitch thread

ISO 898/2—Mechanical Properties of Fasteners

Iveco 18-1103—Zinc-Nickel Electrolytic Coating for Ferrous Metal Parts

3.2 REPLACED STANDARDS

Case EM-010—Hex Flange Nuts Metric General Specification

Case EM-011—Hex Flange Nuts Metric Preferred

NH FNHA-1-A-350.00—Hex Flange Nuts Class 8 Coarse Threads ZND

NH FNHA-1-A-355.00—Hex Flange Nuts Class 10 Coarse Threads ZND

4. REQUIREMENTS

4.1 MATERIAL

Material per CNH STPA020.

4.2 NUT IDENTIFICATION

Hex nuts of property classes equal to or higher than 8 shall be marked with the property class designation symbol per ISO 898/2.

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4.3 SURFACE DISCONTINUITIES

All products under this specification shall be free from burrs, seams, laps, loose scale, irregular surfaces and any defects affecting their serviceability per SAE J122 (Surface Discontinuities on Nuts).

4.4 DIMENSIONS

All dimensions in this standard are in millimeters. All unspecified detail shall conform to the above listed standards.

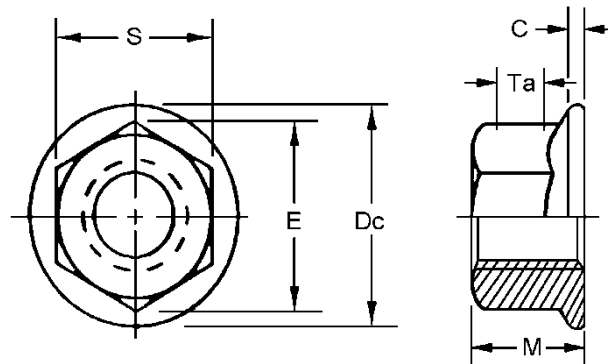


Table 1. Hexagon Flange Nuts – (Coarse) – General Specifications

Diameter	Coarse Pitch	Dc Flange Diameter Max	S Width across Flats Nom./ Max	E Width across Corners Min.	Ta Wrench Height min	M Height Max
4	0.7	10.0	7			4
5	0.8	11.8	8	8.79	2.5	5
6	1	14.2	10	11.05	3.1	6
8	1.25	17.9	13	14.38	4.6	8
10	1.5	21.8	15	16.64	5.6	10
12	1.75	26.0	18	20.03	6.8	12
14	2	29.9	21	23.36	7.7	14
16	2	34.5	24	26.75	8.9	16
20	2.5	42.8	30	32.95	10.7	20



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Table 2. Hexagon Flange Nuts (Coarse) – Preferred Part Numbers

Diameter	Material	8	10
	Finish	ZND	PHC
6		9804276	
8		9804277	
10		9804278	87016577
12		9804279	87016578
16		9804280	
20		86512496	86631180

Table 3. Hexagon Flange Nuts (Coarse) – Non-Preferred Part Numbers Material Grade 8

Diameter	Material	8	8	8	8	8	8	8
	Finish	ZND	DAC	DOR	PLN	BGM	@18-1103	ZN-NI-3
4								
5		86512495					90405613	
6			14059214	86981460	51424884	90407663		92843943
8			14059314	86981461	84567297	47455675		
10				87344219	84567298	47455668		
12			90343451	87344225	84567299	47455673		
12		*84014971	*90343457					
14		48152215						
16			91825830		84329845			
20								

*Prevailing Torque with Nylon Insert (Ref: DIN 6926 – max height 13.8 mm)

@Zinc Nickel per Iveco 18-1103 Fe/ZnNi 7 IV

Table 4a. Hexagon Flange Nuts (Coarse) – Non-Preferred Part Numbers Miscellaneous Material

Diameter	Material	10	10	10	10	10	12
	Finish	ZND	DAC	DOR	BGM	PLN	ZND
4							
5		86507064	90343444				
6		86050300					
8		86507066				48015282	
10		86050279	90391750	86981462	47455660	48015283	
12		86512497		86981463	92312788	48015284	84364035
14							84364037
16		86512498		86981464		48015285	
20		86512499		86981465			



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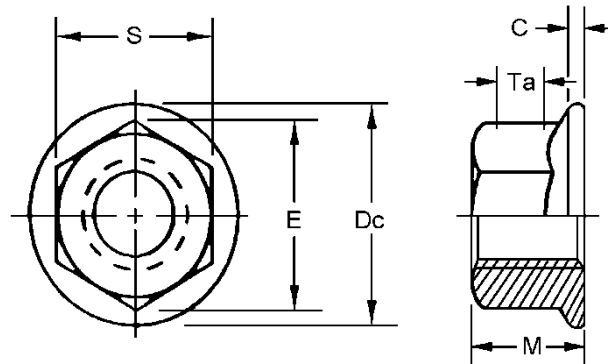
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Table 4b. Hexagon Flange Nuts (Coarse) – Non-Preferred Part Numbers Stainless Steel Material

Diameter	Material	SST	SST	A4-80
	Finish	BLO	PLN	PLN
4				
5				
6			^51448930	91724947
8			^92646259	
10		^90391137	^90391138	
12			84421931	
14				
16				
20				

^ Material A2-70 Stainless Steel
Stainless Steel Material A4-80 per ISO 3506-2


Table 5. Hexagon Flange Nuts – (Fine) – General Specifications

Diameter	Fine Pitch	Dc Flange Diameter Max	S Width across Flats Nom./ Max	E Width across Corners Min.	Ta Wrench Height min	M Height Max
8	1	17.9	13	14.38	4.6	8
10	1.25	21.8	15	16.64	5.6	10
12	1.25	26.0	18	20.03	6.8	12
14	1.5	29.9	21	23.36	7.7	14
16	1.5	34.5	24	26.75	8.9	16
20	1.5	42.8	30	32.95	10.7	20

Table 6. Hexagon Flange Nuts (Fine) – Non-Preferred Part Numbers Material Grade 8

Diameter	Material Finish	8 ZND	8 DAC	8 DOR	8 BGM
8 X 1					
10 X 1.25		87517061			91819709
12 X 1.25		14059511			
14 X 1.5		47903326	90391749		
16 X 1.5					
20 X 1.5					

Table 7. Hexagon Flange Nuts (Fine) – Non-Preferred Part Numbers Material Grade 10

Diameter	Material Finish	10 ZND	10 DAC	10 DOR	10 BGM
8 X 1					
10 X 1.25		14059421			
12 X 1.25		90399802			
14 X 1.5					
16 X 1.5		47741884			
20 X 1.5		84144652	90391761		