

FED. SUPPLY CLASS

5310

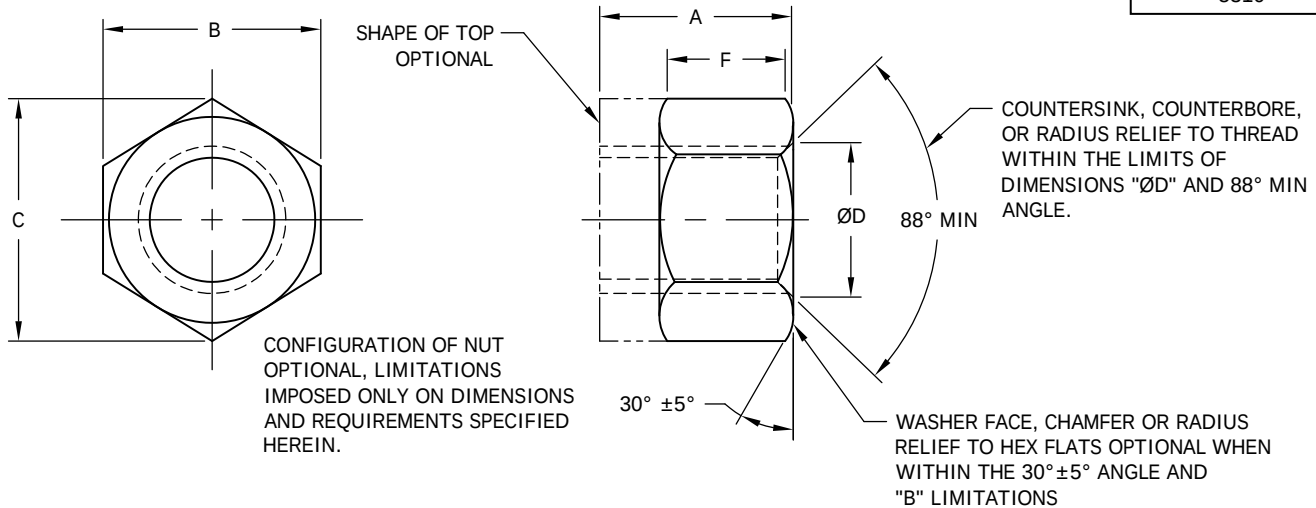


TABLE I. DIMENSIONS

DASH NUMBERS				THREAD AS8879			(b)					(a) BEARING SURFACE SQUARE- NESS
NON-METALLIC INSERT												
AL ALLOY	STEEL	BRASS	CRES		A		B		C	ØD	F	
				MAX	MIN	MAX	MIN	MIN	±.020	MIN		
D02	N02	B02	C02	.0860-56 UNJC-3B	.153	.133	.251	.243	.268	.106	.044	.004
D04	N04	B04	C04	.1120-40 UNJC-3B	.157	.133	.251	.243	.268	.136	.044	.004
D06	N06	B06	C06	.1380-32 UNJC-3B	.188	.160	.313	.305	.339	.161	.072	.004
D08	N08	B08	C08	.1640-32 UNJC-3B	.281	.219	.345	.336	.374	.188	.091	.004
D3	N3	B3	C3	.1900-32 UNJF-3B	.281	.208	.376	.367	.410	.210	.085	.004
D4	N4	B4	C4	.2500-28 UNJF-3B	.360	.240	.439	.430	.482	.273	.116	.005
D5	N5	B5	C5	.3125-24 UNJF-3B	.360	.271	.502	.492	.552	.336	.123	.006
D6	N6	B6	C6	.3750-24 UNJF-3B	.469	.318	.564	.553	.622	.398	.153	.006
D7	N7	B7	C7	.4375-20 UNJF-3B	.469	.435	.690	.679	.766	.467	.178	.007
D8	N8	B8	C8	.5000-20 UNJF-3B	.610	.575	.752	.741	.837	.531	.221	.007
D9	N9	B9	C9	.5625-18 UNJF-3B	.704	.623	.877	.865	.978	.594	.243	.008
D10	N10	B10	C10	.6250-18 UNJF-3B	.766	.732	.940	.928	1.051	.656	.274	.008
D12	N12	B12	C12	.7500-16 UNJF-3B	.891	.855	1.064	1.052	1.191	.787	.316	.009
D14	N14	B14	C14	.8750-14 UNJF-3B	1.016	.965	1.252	1.239	1.403	.918	.570	.010
D16	N16	B16	C16	1.0000-12 UNJF-3B	1.141	1.010	1.440	1.427	1.615	1.044	.635	.011
D18	N18	B18	C18	1.1250-12 UNJF-3B	1.266	1.130	1.627	1.614	1.826	1.171	.710	.012
D20	N20	B20	C20	1.2500-12 UNJF-3B	1.454	1.300	1.815	1.801	2.038	1.295	.795	.013

- (a) BEARING SURFACE SHALL BE SQUARE WITH PITCH DIAMETER WHEN MEASURED IN ACCORDANCE WITH NASM25027.
- (b) DIMENSION ACROSS FLATS INCLUDE DEFORMATION OF SELF-LOCKING DEVICE.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21044, REVISION H. PART NUMBERS REMAIN MS21044.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NASM25027	TITLE NUT, SELF-LOCKING, HEXAGON, REGULAR HEIGHT, 250°F, 125 KSI Ft_u AND 60 KSI Ft_u	CLASSIFICATION PART STANDARD NASM21044

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REQUIREMENTS:

1. **MATERIAL: STEEL GRADES** 1006 (UNS G10060) PER ASTM A 29/A 29M, ASTM A 510 OR ASTM A 853.
1008 (UNS G10080) PER ASTM A 29/A 29M, ASTM A 510 OR ASTM A 853.
1009 (UNS G10090) PER SAE J1249 ~~J118~~.
1010 (UNS G10100) PER AMS5040, ASTM A 29/A 29M, ASTM A 510 OR ASTM A 853.
1015 (UNS G10150) PER AMS5060, ASTM A 29/A 29M, ASTM A 510 OR ASTM A 853.
1018 (UNS G10180) PER AMS5069, ASTM A 29/A 29M, ASTM A 510 OR ASTM A 853.
1035 (UNS G10350) PER AMS5080, ASTM A 29/A 29M, ASTM A 510 OR ASTM A 853.
1137 (UNS G11370) PER AMS5024 OR ASTM A 29/A 29M.
11L37 (UNS G11374) PER AMS5020.
1213 (UNS G12130) PER SAE J403 OR ASTM A 29/A 29M.
12L14 (UNS G12144) PER SAE J403.
15B21H (UNS H15211) PER AISI 15B21H OR SAE J1268.
- CRES** 302 (UNS S30200) PER AMS5688; 303 (UNS S30300) PER AMS5640, ASTM A 581/A 581M, OR ASTM A 582/A 582M;
304 (UNS S30400) PER AMS5647; (UNS S30430) PER ASTM A 493; XM-21 (UNS S30452) PER ASTM A 276.
- ALUMINUM ALLOY** 2014-T6 (UNS A92014) PER AMS-QQ-A-200/2.
2017-T4 (UNS A92017) PER AMS-QQ-A-225/5.
2024-T6 (UNS A92024) PER AMS-QQ-A-225/6.
7075-T6 (UNS A97075) PER AMS-QQ-A-200/11.
- BRASS** CA 360 (UNS C36000), 1/2 HARD OR CA 260 (UNS C26000) PER ASTM B 36/B 36M, ASTM B 121/B 121M, ASTM A 829/A 829M, OR AMS 4610.

NON-METALLIC INSERT – NYLON PER ASTM D 4066, GROUP 1, CLASS 1 OR 2.

2. **PROTECTIVE COATING:** STEEL AND BRASS NUTS - CADMIUM PLATED IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2.
CORROSION-RESISTANT STEEL NUTS - PASSIVATE IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 1. USE TYPE 2 FOR 303 MATERIAL AND TYPE 6 OR TYPE 7 FOR 302 AND 304 MATERIALS.
ALUMINUM ALLOY NUTS - ANODIZE OR CHEMICALLY SURFACE TREAT IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
ALUMINUM ALLOY NUTS - IN SIZES THRU 0.2500-28 DYED BLUE PER PROCUREMENT SPECIFICATION.
3. **LUBRICANT:** LUBRICANT APPROVED IN ACCORDANCE WITH NASM25027; LUBRICANT SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION.
4. **MAGNETIC PERMEABILITY:** MAGNETIC PERMEABILITY OF CORROSION-RESISTANT STEEL NUTS SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS WHEN TESTED IN ACCORDANCE WITH ASTM A 342/A 342M, METHOD 3.
5. **SURFACE ROUGHNESS:** SURFACE ROUGHNESS IN ACCORDANCE WITH ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES SHALL NOT EXCEED 125 MICROINCHES.
6. **VIBRATION LIFE:** MINIMUM VIBRATION LIFE REQUIREMENT FOR NON-METALLIC INSERT PARTS SHALL BE THREE TIMES AVERAGE VIBRATION LIFE LISTED IN NASM25027.
7. **PART NUMBER:** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1.

REVISION

1

NASM21044

SHEET 2



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