

FED. SUPPLY CLASS

5310

DESIGN OF WRENCHING PAD FACES BETWEEN WRENCHING CORNERS IS OPTIONAL IF THE WRENCHING CORNERS ARE WITHIN THE LIMITS OF E, W AND C BEFORE LUBRICATION AND THE LIMIT OF THE AREA BETWEEN THE CORNERS IS WITHIN THE MAXIMUM LIMIT OF W FOR THE E LENGTH OF WRENCHING CORNERS, BEFORE LUBRICATION

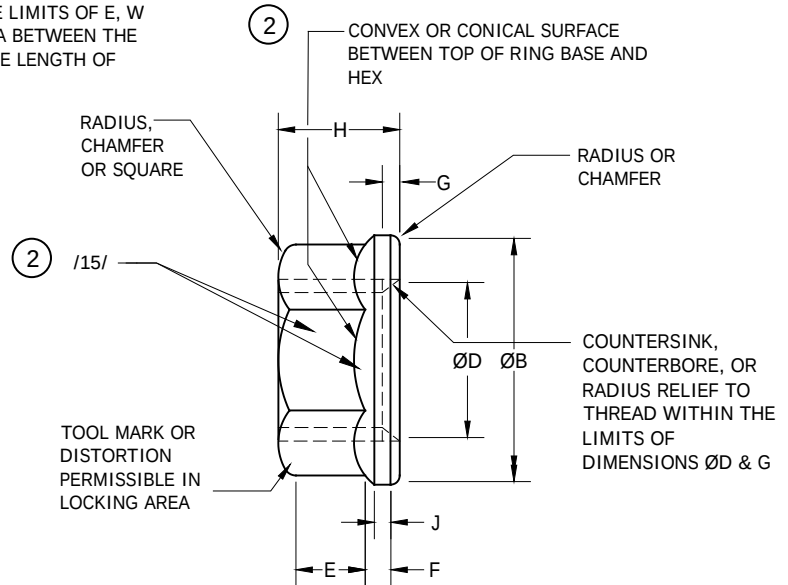
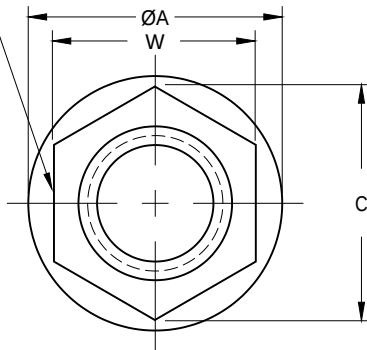


TABLE I – DIMENSIONS

SIZE DASH NO.	THREAD /3/	ØA MAX	ØB MIN	C MIN	ØD		E MIN /6/	F MIN /7/	G		H		J MIN	W /5/		X /4/	WRENCHING TORQUE IN-LBF MIN /8/	AXIAL STRENGTH LBF MIN /9/	WT LBS/100 MAX
					MAX	MIN			MAX	MIN	MAX	MIN		MAX	MIN				
02	.0860-56 UNJC-3B	.167	.137	.138	.106	.086	.045	.019	.021	.004	.100	.080		.127	.122	.0025	5	660	.020
04	.1120-40 UNJC-3B	.206	.176	.171	.142	.112	.050	.028	.027	.005	.125	.103	.010	.158	.150		10	1,110	.050
06	.1380-32 UNJC-3B	.244	.214	.207	.168	.138	.055	.039			.141	.115		.190	.181		20	1,670	.080
08	.1640-32 UNJC-3B	.290	.260	.244	.194	.164	.060	.041	.031	.006	.125	.103	.015	.221	.213	.003	30	2,490	.150
3	.1900-32 UNJF-3B	.330	.290	.277	.220	.190	.065	.043			.154	.125		.252	.243		60	3,470	.180
4	.2500-28 UNJF-3B	.420	.386	.347	.280	.250	.090	.057	.036	.007	.219	.204	.019	.316	.304		150	6,200	.350
5	.3125-24 UNJF-3B	.520	.482	.419	.342	.312	.120	.077	.042	.008	.266	.251	.023	.378	.367	.004	330	9,820	.600
6	.3750-24 UNJF-3B	.620	.575	.491	.405	.375	.125	.089			.282	.267	.030	.440	.430		530	15,200	.800

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21042, REVISION M. PART NUMBERS REMAIN MS21042.

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	
NASM25027	

CUSTODIAN	NATIONAL AEROSPACE STANDARDS COMMITTEE
TITLE	NUT, SELF-LOCKING, 450° F, REDUCED HEXAGON, REDUCED HEIGHT, RING BASE, NON-CORROSION RESISTANT STEEL

REVISION	2
CLASSIFICATION PART STANDARD	NASM21042
SHEET 1 OF 3	



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NATIONAL AEROSPACE STANDARD

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MATERIAL:

STEEL: UNS G10350 (AISI C1035) PER AMS5080, AMS-QQ-S-700
UNS G10420 (AISI C1042)
UNS G10500 (AISI 1050) PER AMS5085
UNS G40270 (AISI 4027) PER ASTM A322
UNS G40370 (AISI 4037) PER ASTM A322, A108 A331, A519, A547, AMS6300
UNS G86300 (AISI 8630) PER AMS6280, AMS6350 6355, AMS6360 6539, AMS6550
UNS G87400 (AISI 8740) PER AMS6322, AMS6323, AMS6325, AMS6327, AMS6358
FE-PL1503 (35CrMo4, 35CD4) PER EN3329, EN2446, EN2448, EN3330, NFL09-752

HEAT TREATMENT:

DEVELOP BASIC MATERIAL PROPERTIES WITH CONTROLS PER AMS2759. HARDNESS TO 49 HRC MAX.

FINISH:

PLATING, CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2.
FOR DRY FILM LUBRICATED NUTS, TYPE AND CLASS ARE OPTIONAL IF THE NUTS MEET THE SALT SPRAY REQUIREMENTS OF AMS-QQ-P-416, TYPE II.

LUBRICATION:

DRY FILM OR NON-DRY FILM IN ACCORDANCE WITH NASM25027. OTHER LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN PROCUREMENT SPECIFICATION.

CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.
LETTER "L" BEFORE FIRST DASH NUMBER DESIGNATES DRY FILM LUBRICATED NUTS.
"- " BEFORE FIRST DASH NUMBER DESIGNATES NUTS WITHOUT DRY FILM LUBRICANT.
(NUTS MAY HAVE EITHER NON-DRY FILM LUBRICANT OR NO LUBRICANT)

EXAMPLES OF PART NUMBER:

MS21042L4 .2500-28 NUT, CADMIUM PLATED, COATED WITH DRY FILM LUBRICANT.

MS21042-4 .2500-28 NUT, CADMIUM PLATED, NOT COATED WITH DRY FILM LUBRICANT.
(NON-DRY FILM LUBRICANT MAY BE APPLIED)

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1982.
- /3/ THREADS BEFORE LUBRICATION PER AS8879.
- /4/ BEARING SURFACE SHALL BE SQUARE WITH PITCH DIAMETER WITHIN "X" WHEN MEASURED IN ACCORDANCE WITH NASM25027.
- /5/ DIMENSIONS APPLY PRIOR TO DEFORMATION OF LOCKING FEATURE.

REVISION

2

NASM21042

SHEET 2



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THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 12-01