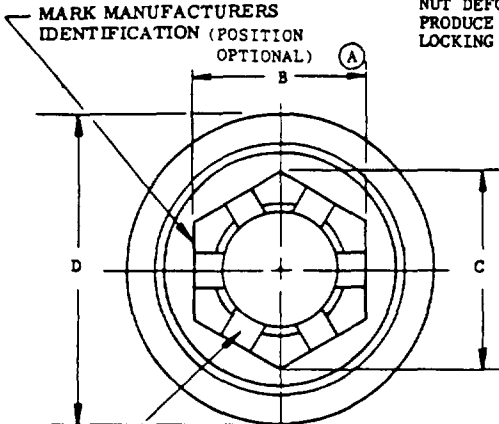
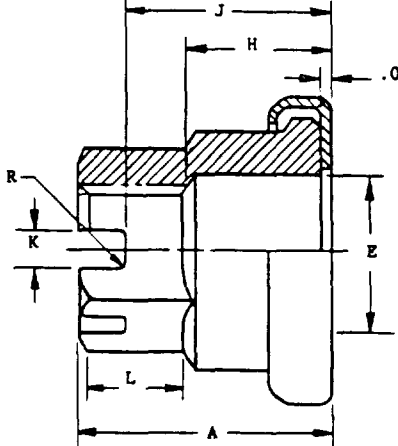


USER SYMBOLS:

REVIEWER SYMBOLS:

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MARK MANUFACTURERS IDENTIFICATION (POSITION OPTIONAL)		UPPER PORTION OF NUT DEFORMED TO PRODUCE SELF-LOCKING ACTION		FED. SUP CLASS 5310											
															
SIZE DASH NO.	(a) THREAD	A		B	C	D	(b)(c) E		H	J	K	L			
		MAX	MIN	MAX	MIN	MIN	± .015	DIA		MAX	MIN	MAX	MIN	± .015	MIN
-3	.1900-32UNJF-3B	.374	.344	.252	.243	.277	.475	.240	.230	.161	.141	.279	.259	.065	.110
-4	.2500-28UNJF-3B	.405	.375	.316	.306	.347	.545	.309	.299	.192	.172	.316	.296	.085	.125
-5	.3125-24UNJF-3B	.436	.406	.378	.367	.419	.625	.395	.385	.223	.203	.347	.327		.130
-6	.3750-24UNJF-3B	.482	.452	.440	.430	.491	.695	.460	.450	.238	.218	.378	.358		.130
-7	.4375-20UNJF-3B	.513	.483	.504	.494	.562	.770	.529	.519	.269	.249	.409	.389	.140	.130
-8	.5000-20UNJF-3B	.576	.546	.566	.556	.633	.910	.614	.604	.301	.281	.472	.452		.150
-9	.5625-18UNJF-3B	.670	.640	.692	.680	.775	1.065	.686	.676	.332	.312	.550	.530		.165
-10	.6250-18UNJF-3B	.819	.789	.755	.743	.846	1.128	.758	.748	.406	.386	.633	.613		.185
-12	.7500-16UNJF-3B	.951	.921	.880	.868	.987	1.268	.915	.905	.450	.430	.765	.745	.171	.220
-14	.8750-14UNJF-3B	1.058	1.028	1.005	.993	1.130	1.480	1.065	1.055	.495	.475	.871	.851		.288
-16	1.0000-12UNJF-3B	1.202	1.162	1.130	1.118	1.272	1.692	1.215	1.205	.544	.524	.984	.964		.333
<p>(a) THREADS PER MIL-S-8879 (b) CONCENTRICITY: "E" DIAMETER TO BE CONCENTRIC TO THREAD P.D. WITHIN .005-TIR (c) WASHER I.D. MAY BE .005 LESS THAN "E" MIN.</p>															
SIZE DASH NO.	R MAX	ULTIMATE TENSILE STRENGTH LB, MIN		MAX WEIGHT LB/100											
-3	.035	1.230		.62											
-4		2.290		.81											
-5		3.700		1.00											
-6		5.720		1.30											
-7		7.720		1.60											
-8	.053	10.550		2.50											
-9		13.400		4.40											
-10		17.060		5.60											
-12		25.010		7.20											
-14		34.220		11.00											
-16	.062	45.000		14.00											
<p>FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL, EXCEPT THAT REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.</p>															
(A) DENOTES CHANGES															
P.A. NAVY - AS Other Cust		TITLE													
USAF - 99 ARMY - AV		NUT, SELF-LOCKING, CASTELLATED, HEXAGON, C'BORED, CAPTIVE WASHER, 450° F													
PROCUREMENT SPECIFICATION *MIL-N-25027		SUPERSEDES													
		MILITARY STANDARD MS14146													
		SHEET 1 OF 2													

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT NO. 5310-1298

PLATE NO 23065

APPROVED 7 DEC 73 REVISED (A) 30 NOV 88

FED. SUP CLASS  
5310

## NOTES:

- (A) 1. MATERIAL: NUT - STEEL UNS G10420 (AISI C1042)  
WASHER - CRES UNS S30200 (AISI 302) PER AMS 5515, 5516, 5636, 5637, 5688  
UNS S32100 (AISI 321) PER AMS 5510, 5557, 5559, 5570, 5645, 5689
2. PROTECTIVE TREATMENT: NUT-CADMIUM PLATE PER QQ-P-416,  
PLUS MOLYBDENUM DISULFIDE DRY FILM  
LUBRICANT, PLATING TYPE AND CLASS OPTIONAL  
IF THE NUTS MEET SALT SPRAY REQUIREMENT OF  
QQ-P-416, TYPE II  
WASHER - PASSIVATE IN ACCORDANCE WITH QQ-P-35.
3. THREADED ELEMENT SHALL ROTATE FREELY IN AND AGAINST THE WASHER.
4. BREAK ALL SHARP EDGES AND REMOVE BURRS AND SLIVERS.
5. SURFACE TEXTURE IN ACCORDANCE WITH ANSI B46.1 SHALL NOT EXCEED  
125 MICRO INCHES.
6. DIMENSIONS IN INCHES.
7. THESE NUTS ARE FOR USE WITH SELF-RETAINING SHEAR BOLTS AND MAY BE USED AT  
TEMPERATURE 450°F AND BELOW. FOR DESIGN USAGE LIMITATIONS SEE MS33602.  
NUTS ARE TO BE INSTALLED IN ACCORDANCE WITH MS33540.
- \* 8. PERFORMANCE: PER MIL-N-25027, EXCEPT NUTS SHALL MEET THE LOCKING  
TORQUE REQUIREMENTS OF MIL-N-25027 FOR 5 CYCLES AT  
ROOM TEMPERATURE AND AFTER BAKE AT 450°F WHEN TESTED  
ON BOLTS OR STUDS CROSS DRILLED IN THREADS PER NAS 1103  
SERIES.

## EXAMPLE OF PART NUMBER.

MS14146-4 = .2500-28 NUT, CADMIUM PLATED WITH CRES, CAPTIVE WASHER.

9. QUALIFIED PRODUCTS: ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS  
LISTED ON QPL 25027 SHALL BE USED FOR DESIGN.

- (A) BIDS SHALL BE SOLICITED ONLY FROM THE MANUFACTURERS OR DISTRIBUTORS LISTED ON QPL-25027.

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P. A. NAVY - AS Other Cust  USAF - 99 ARMY - AV	TITLE  NUT, SELF-LOCKING, CASTELLATED, HEXAGON. C'BORED. CAPTIVE WASHER. 450 F	MILITARY STANDARD  MS14146
PROCUREMENT SPECIFICATION * MIL-N-25027	SUPERSEDES	SHEET 2 OF 2

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 23085

APPROVED 7 DEC 73  
REVISED (A) FOR CHANGES SEE SHEET 2