

FED. SUPPLY CLASS

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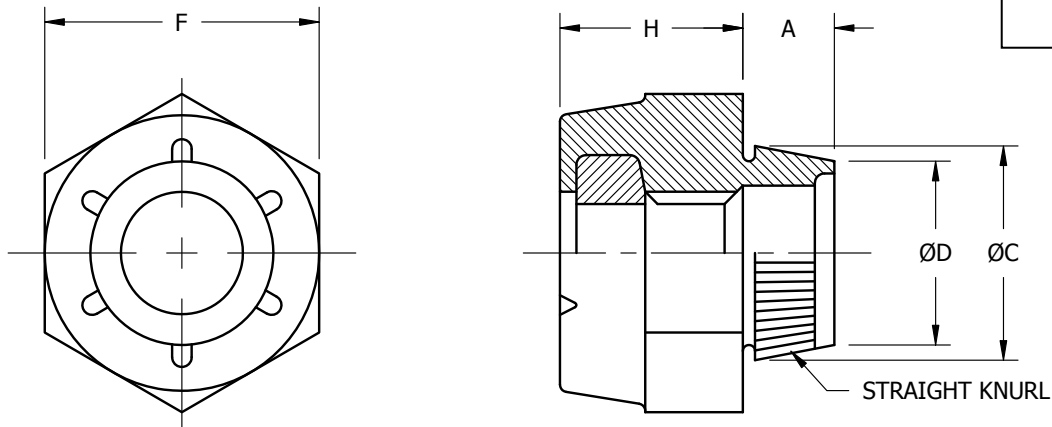


FIGURE 1 – NUT

TABLE I – DASH NUMBERS AND DIMENSIONS

DASH NUMBER			THREAD SIZE	A SHANK LENGTH ± .006	SHEET THICKNESS	HOLE SIZE IN SHEET		ØC ± .002	ØD +.000 -.003	F ± .010	H ± .015
CARBON STEEL	CRES	AL ALLOY				MAX	MIN				
10	10C	10A	.1120-40 UNJC-3B	.063	.020 TO .031	.186	.184	.189	.183	.250	.141
1	1C	1A		.085	.032 TO .053						
11	11C	11A		.105	.054 TO .073						
20	20C	20A	.1380-32 UNJC-3B	.063	.020 TO .031	.219	.217	.222	.216	.312	.188
21	21C	21A		.085	.032 TO .053						
2	2C	2A		.105	.054 TO .073						
3	3C	3A		.135	.074 TO .103						
30	30C	30A		.165	.104 TO .133						
31	31C	31A		.195	.134 TO .163						
32	32C	32A	.1640-32 UNJC-3B	.085	.032 TO .053	.271	.268	.275	.267	.375	.250
33	33C	33A		.105	.054 TO .073						
34	34C	34A		.135	.074 TO .103						
35	35C	35A		.165	.104 TO .133						
36	36C	36A		.195	.134 TO .163						
4	4C	4A	.1900-24 UNJC-3B	.135	.074 TO .103	.271	.268	.275	.267	.375	.250
5	5C	5A		.165	.104 TO .133						
50	50C	50A		.195	.134 TO .163						
6	6C	6A	.2500-20 UNJC-3B	.165	.104 TO .133	.355	.352	.359	.351	.438	.313
7	7C	7A		.195	.134 TO .163						

MATERIAL:

CRES – TYPE 303 (UNS S30300) PER ASTM A581/A581M OR ASTM A582/A582M.
ALUMINUM ALLOY – GRADE 2017-T4 (UNS A92017) OR GRADE 2014-T6 (UNS A92014) PER ASTM B211.
CARBON STEEL – GRADE 12L14 (UNS G12144) PER ASTM A575, OR GRADE 4130 (UNS G41300) PER
ASTM A322, OR GRADE 10L18 (UNS G10180) PER ASTM A510.
THE LOCKING INSERT SHALL BE NYLON.

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MIL-N-45938/8, REVISION A. PART NUMBERS REMAIN M45938/8.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NASM45938	TITLE NUT, SELF-LOCKING, CLINCH, SWAGE-CLINCHING, KNURLED SHANK, 250 °F, UNJC-3B	CLASSIFICATION PART STANDARD

NASM45938/8
SHEET 1 OF 4

FINISH:

ALUMINUM ALLOY SHALL BE ANODIZED IN ACCORDANCE WITH MIL-A-8625.
CARBON STEEL SHALL BE CADMIUM PLATED.
CRES SHALL BE CLEANED, DESCALED, AND PASSIVATED.

CODE:

THE PART NUMBER CONSISTS OF THE LETTER "M", THE BASIC NUMBER OF THIS PART STANDARD AND A DASH NUMBER TAKEN FROM TABLE I.

EXAMPLE OF PART NUMBER:

M45938/8 - 4A = NUT, SELF-LOCKING, CLINCH, SWAGE-CLINCHING, KNURLED SHANK, 250 °F,
ALUMINUM ALLOY, .1900-24 UNJC-3B, .135 SHANK LENGTH.

— DASH NUMBER

— BASIC PART STANDARD NUMBER

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) THREADS SHALL BE IN ACCORDANCE WITH AS8879. (NOTE: MIL-S-7742 WAS SPECIFIED PRIOR TO MIL-N-45938/8A. NUTS WITH MIL-S-7742 THREADS ARE ACCEPTABLE UNTIL JUNE 1987). FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.
- (3) PUSH-OUT AND TORQUE-OUT VALUES SHALL BE AS SPECIFIED IN TABLE II, WHEN PROPERLY INSTALLED IN ALUMINUM ALLOY OR LOW CARBON STEEL SHEET.
- (4) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (5) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (6) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (7) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

TABLE II – PERFORMANCE AND INSTALLATION DATA

THREAD SIZE	PUSH-OUT LBF MIN	TORQUE-OUT IN-LBF MIN	MAXIMUM INSTALLATION FORCE LBF		
			AL NUT	CRES NUT	STEEL NUT
.1120-40 UNJC-3B	80	10	1,400	1,900	1,400
.1380-32 UNJC-3B	120	15	1,900	3,000	1,900
.1640-32 UNJC-3B	140	20	2,100	4,000	2,100
.1900-24 UNJC-3B	200	30	2,100	4,000	2,100
.2500-20 UNJC-3B	250	50	4,000	4,300	4,000

REVISION

1

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