### MILITARY SPECIFICATION SHEET

NUT, PLAIN, CLINCH AND NUT, SELF-LOCKING, CLINCH (SELF CLINCHING, KNURLED COLLAR, 450°F AND 600°F)

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirement for acquiring the nut described herein shall consist of this specification and the latest issue of MIL-N-45938

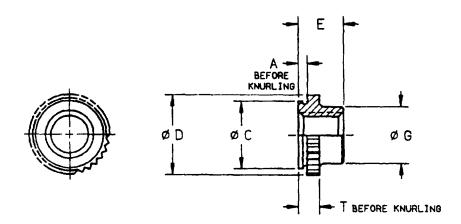


TABLE I Part dimensions and dash numbers

			I ADLE 1	POP 1	INBUS	ions and	dash r	UMDEL	<u> </u>				
DASH NUMBER			THREAD	Α	SHEET	HOLE SIZE	ØC	ØD	E	ØG	Τ	CENTER OF HOLE	
ALLOY STEEL	CRE6 303	CREB A286	CLASS 3B		THK	• 004	• 001					TO SHEET	
(450 · F )	/450.67	1600.L.	r1∟-6-8879	2 004		- nn1	- 404	± 015	± 015	± 005	1 005		
1	10		0 0860-56 UNJC	030 040	201	199	260	178	125	070			
2•		2ۥ			1 0 0	125	123	190	140	106	078	188	
3	JC		0 1120-40 JNJC	סבט סראר פ	070	30 040	201	199	260	178	160		
4.		4C •		030	040	156	154	220	160	135	078	203	
5	5C		0 1380-32 UNJC	030 040	228	226	290	178	175				
6.		6C+		1 636	040	188	186	250	178	161	61 078	250	
	70		0 1640-32 UNJC	040	050	281	279	350	188	215	088	281	
8•		8C+				219	217	280	188	200			
7	9C		0 1900-32 UNJF	040	050	281	279	350	188	240	088	281	
10	70C		0 2500-28 UNJF	050	060	375	373	450	250	313	115	375	
11	110		D 3125-24 UNJF	063	080	406	404	490	312	,386	141	406	
12	120		0 3750-24 UNJF	094	125	500	498	560	375	448	188	500	
13	13C		0 1900-24 UNJC	040	050	281	279	350	188	240	088	281	
14	14C		0 2500-20 UNJC	050	060	375	373	450	250	313	115	375	
15	150		0 3125-18 UNJC	063	080	406	404	490	312	386	141	406	
16	160		0 3750-16 UNJC	094	125	500	498	560	375	448	188	500	

## NOTES

1 Dimensions:
All dimensions are in inches

B Denotes changes

AMBC N/A

1 of 3

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### REQUIREMENTS.

### Material:

Steel, alloy, for use in materials with a hardness of 28 HRC max Steel, corrosion-resistant, type A286 (UNS 866286) per AMS5731 or AMS5734 **B** for use in materials with a hardness of 90 HRB max Steel, corresion-resistant, type 303 (UNS 830300) per ASTM A581 or ASTM A582 for use in materials with a hardness of 90 HRB max

## 꾙

<u>Protective Coating or Treatment:</u>
Steel, alloy, shall be cadmium plated per G0-P-416 type III class 3, plus solid

film lubricant coating Steel, corrosion-resistant, types 303 and A286, shall be cleaned and descaled in **(B)** accordance with A8TM A380 and passivated in accordance with 90-P-35 Self-locking, steel, corrosion resistant (type 303) nuts shall also have a solid film lubricant coating

Self-locking, steel, corrosion resistant (type A286) nuts shall be silver plated plus solid film lubricant coating.

#### Threads:

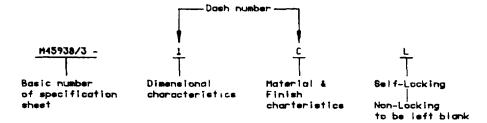
The threads shall be in accordance with MIL-6-8879 prior to soild film lubricant coating. The upper partial of the nut shall be deformed to provide self-locking feature

- Push-out and torque-out values shall be as specified in Table II or Table III, as applicable, when properly installed in the following materials: Steel, alloy, nuts installed in cold rolled steel sheet Steel, corresion-resistant, nuts in 2024-T4 aluminum alloy sheet
- Steel, alloy, nuts installed in 2024-T4 aluminum alloy sheet

## Military part number:

Consists of the letter M, the basic number of the specification sheet, and a dash number taken from Table I, plus letter L for self-locking nut or leave blank for non-locking feature.

Example of military part number :



M45838/3-1CL Indicates a Nut, Plain, Clinch , Self locking, (Self clinching, Knurled collar, 450°F)
0.0860-56 UNJC-3B internal thread, 303 CRES, cleaned, descaled and passivated, solid film lubricant coating

TABLE II for dash numbers with no (\*)

SIZE	APPROX INSTALL FORCE !bf	PUSH- OUT, Ibf MIN	TORQUE- OUT, Ibf in MIN		
0 0860	2600	160	20		
0 1120	2700	160	20		
0 1380	2700	180	40		
0 1640	4000	360	60		
1	İ	ļ			
0 1900	4000	360	۰0		
0 2500	5000	550	120		
0 3125	7000	800	225		
0 3750	8200	1000	325		

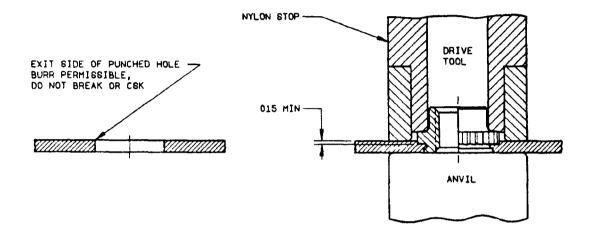
TABLE III For dash numbers with an (\*)

GIZE	APPROX INSTALL FORCE Ibf	PUSH- OUT, !bf MIN	TORQUE- OUT, 16f in MIN		
0 0860	2200	80	10		
0 1120	2400	120	20		
0 1380	2600	160	30		
0 1640	3400	240	45		

### Recommended Installation Procedures:

**B** 

- a. Drill or punch hate (Corrosion-resistant steel shall be drilled).
- b. Locate pilot squarely in hole. Use exit side of punched hole.
- C Using a drive tool and anvil (as shown below), apply sufficient force to cause a .015 inch minimum penetration into the structure for a full 360°. Tool shown is a depth-stop type tool which installs nut to proper depth when nylon stop bottoms against sheet surface. Tool mandatory from Rosan Products, Santa Ana, CA CAGE CODE 83324
- d Install screw or bolt from pilot side of nut



Custodians: Army - AR Navy - AS

Review activities Army - AV, MI DLA - IB

User activities:

Army - AT, CR, ER, GL, ME Navy - AB, MC, BH Preparing activity
Army - AR

(Project 5310-1675)

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