

FED. SUPPLY CLASS

5310

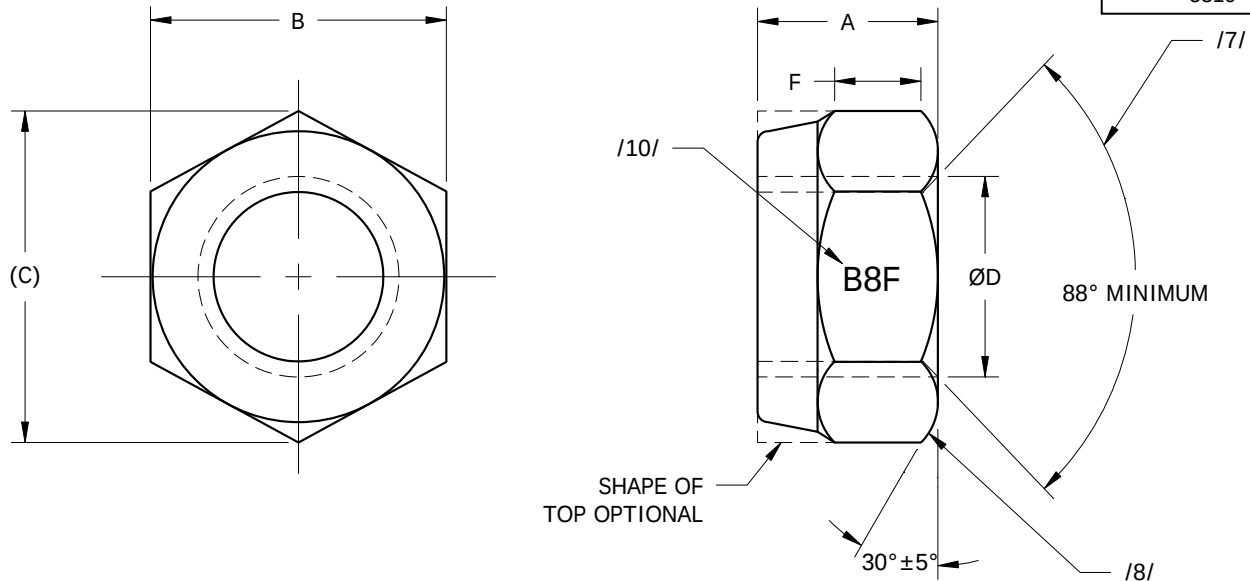


TABLE I – DIMENSIONS AND WEIGHT

SIZE DASH NO.	THREAD	A		B		(C)	ØD ± .020	F MIN	BEARING SURFACE SQUARENESS /9/	AXIAL TENSILE STRENGTH LBF MIN	MINIMUM ULTIMATE WRENCH TORQUE LBF-IN	(WEIGHT) LB/100
		MAX	MIN	MAX	MIN							
4C	1/4-20 UNC-3B	.296	.266	.502	.492	.552	.273	.135	.007	4,200	75	1.14
5C	5/16-18 UNC-3B	.328	.298	.564	.553	.622	.336	.150		5,500	130	1.53
6C	3/8-16 UNC-3B	.421	.391	.690	.679	.766	.398	.175	.008	8,450	230	2.87
7C	7/16-14 UNC-3B	.453	.423	.752	.741	.837	.467	.225		11,650	400	3.80
8C	1/2-13 UNC-3B	.546	.516	.877	.865	.978	.531	.255	.009	17,550	835	6.19
10C	5/8-11 UNC-3B	.624	.594	1.064	1.052	1.191	.656	.315	.010	25,900	1315	10.50
12C	3/4-10 UNC-3B	.718	.688	1.252	1.239	1.403	.782	.355		33,500	1925	16.80
16C	1-8 UNC-3B	.922	.860	1.627	1.614	1.836	1.044	.410	.012	62,900	6055	32.70

MATERIAL:

300 SERIES CORROSION RESISTANT STEEL IN ACCORDANCE WITH FED-STD-66 AIR4127.
THE INSERT SHALL BE IN ACCORDANCE WITH ASTM D4066, PA 011.

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS16228, REVISION A, AMENDMENT 1. PART NUMBERS REMAIN MS16228.

THIRD ANGLE PROJECTION		CUSTODIAN		REVISION	
		NATIONAL AEROSPACE STANDARDS COMMITTEE		1	
PROCUREMENT SPECIFICATION	NASM25027	TITLE		CLASSIFICATION	
		NUT, SELF-LOCKING, HEXAGON, THIN, UNC-3B, NON METALLIC INSERT, AUSTENITIC CORROSION RESISTANT STEEL, NONMAGNETIC, 250 °F		NASM16228 SHEET 1 OF 3	

FINISH:

NUTS SHALL BE PASSIVATED IN ACCORDANCE WITH AMS2700, METHOD 1, CLASS 4.

CODE:

PART NUMBER SHALL CONSIST OF THE STANDARD NUMBER FOLLOWED BY A DASH NUMBER TAKEN FROM TABLE I.

EXAMPLE OF PART NUMBER:

MS16228-4C=NUT, HEX, SELF-LOCKING, CORROSION RESISTANT STEEL, 0.250-20UNC-3B

NOTES:

- (1) BOLTS OR STUDS FOR MAXIMUM LOCKING TORQUE AND MINIMUM BREAKAWAY TORQUE TEST: BOLTS OR STUDS FOR MAXIMUM LOCKING TORQUE AND MINIMUM BREAKAWAY TORQUE TEST SHALL BE CORROSION-RESISTANT STEEL OF 300 SERIES CLASS.
- (2) REMOVE ALL BURRS AND SHARP EDGES.
- (3) SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICROINCHES (Ra). PER ASME B46.1.
- (4) DIMENSIONS IN INCHES.
- (5) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (6) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- /7/ COUNTERSINK, COUNTERBORE OR RADIUS RELIEF TO THREADS WITHIN THE LIMITS OF DIMENSIONS "ØD" AND 88° MINIMUM ANGLE.
- /8/ WASHER FACE, CHAMFER OR RADIUS RELIEF TO HEX FLATS OPTIONAL.
- /9/ BEARING SURFACE SQUARENESS MEASURED IN ACCORDANCE WITH NASM25027.
- /10/ MARK IN ACCORDANCE WITH NAS1347, USING THE SYMBOL "B8F".
- (11) LOCKING DEVICE: THE LOCKING DEVICE SHALL BE A RING OR COLLAR INSERT CAPABLE OF COMPLETE CIRCUMFERENTIAL THREAD ENGAGEMENT FOR AT LEAST ONE FULL THREAD.
- (12) THREADS: THREADS SHALL BE "RIGHT-HAND", UNIFIED COARSE IN ACCORDANCE WITH SCREW THREAD STANDARDS FOR FEDERAL SERVICE, FED-STD-H28/2, CLASS 3B FIT, EXCEPT THAT MINOR DIAMETER REQUIREMENTS OF AS8879 MAY APPLY.
- (13) STRENGTH: AXIAL TENSILE STRENGTH OF NUTS SHALL BE DETERMINED WITH ALLOY STEEL BOLTS HEAT TREATED TO A MINIMUM ULTIMATE STRENGTH OF 160,000 P.S.I.
- (14) MAGNETIC PERMEABILITY SHALL BE LESS THEN 2.0 (AIR=1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A 342/A 342M, TEST METHOD 3.

REVISION

1

NAS16228

SHEET 2

① COMPLETELY REVISED