

FED. SUPPLY CLASS

5310

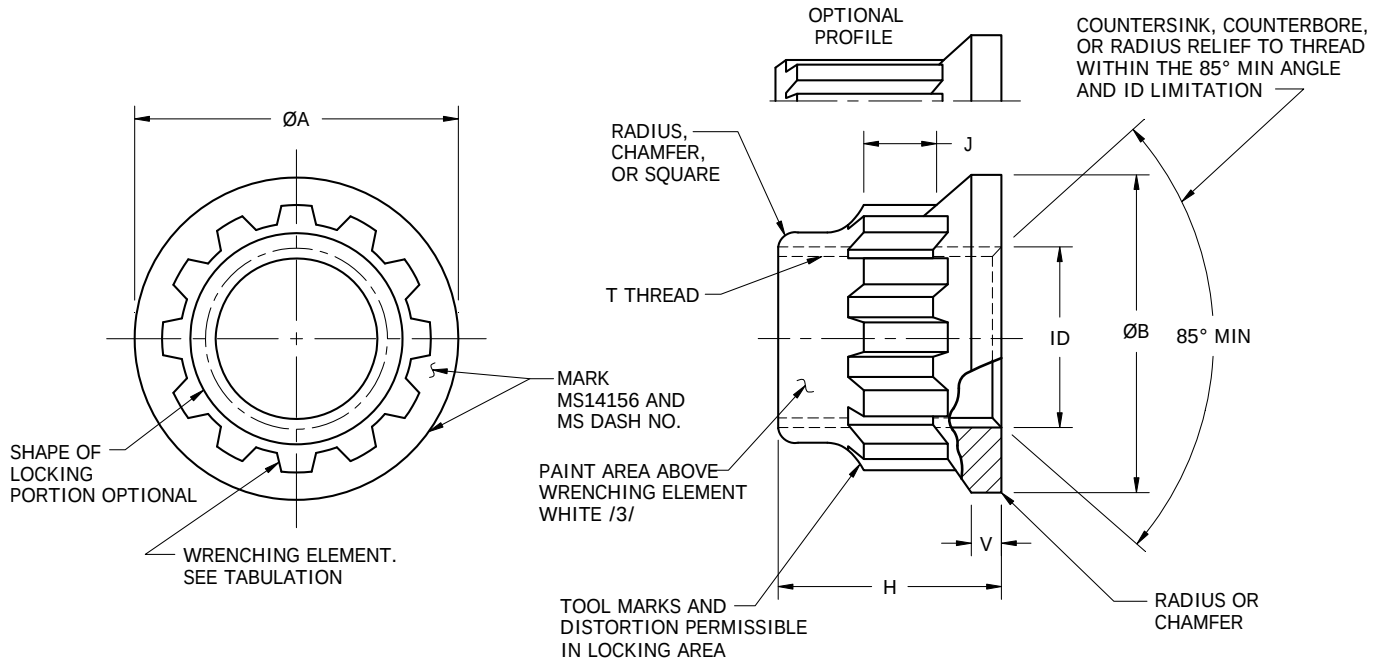


TABLE I – DIMENSIONS

DASH NO.	NOM SIZE	THREAD	MS33787 ELEMENT NUMBER	A MAX	B MIN	ID		H MAX	V MIN	J MIN	X MIN	ULTIMATE AXIAL STRENGTH LBF MIN /1/	SEATING TORQUE FOR TORQUE EFFECTIVITY TEST LBF-IN	APPROX WEIGHT LB/100
						MAX	MIN							
04	1/4	.2500-28 UNJF-3B	10	.444	.414	.280	.250	.290	.033	.110	.003	7,270	110	.57
05	5/16	.3125-24 UNJF-3B	12	.547	.517	.342	.312	.363	.038	.138	.004	11,500	210	.96
06	3/8	.3750-24 UNJF-3B	14	.654	.614	.405	.375	.438	.045	.165	.004	17,100	380	1.63
07	7/16	.4375-20 UNJF-3B	18	.753	.713	.473	.438	.506	.053	.193	.005	23,200	600	2.42
08	1/2	.5000-20 UNJF-3B	20	.863	.823	.535	.500	.549	.060	.220	.005	30,900	910	3.28
09	9/16	.5625-18 UNJF-3B	22	.938	.898	.597	.562	.600	.068	.248	.005	39,200	1,300	4.13
10	5/8	.6250-18 UNJF-3B	24	1.050	1.010	.660	.625	.650	.075	.275	.006	49,100	1,800	6.26
12	3/4	.7500-16 UNJF-3B	30	1.230	1.190	.785	.750	.750	.090	.330	.007	71,000	3,200	9.35
14	7/8	.8750-14 UNJF-3B	34	1.438	1.398	.910	.875	.875	.105	.385	.008	97,100	5,000	14.00
16	1	1.0000-12 UNJF-3B	38	1.625	1.575	1.035	1.000	1.000	.120	.440	.009	126,000	7,500	19.52

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS14156, REVISION B. PART NUMBERS REMAIN MS14156.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NASM8985	TITLE NUT, WHEEL, SELF-LOCKING, FLANGED, STEEL, 180 KSI Ft_u, 450 °F, SPLINE DRIVE	CLASSIFICATION PART STANDARD NASM14156

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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 09-01

REVISION DATE: SEPTEMBER 28, 2012

ISSUE DATE: SEPTEMBER 1999

MATERIAL:

ALLOY STEEL PER AMS6304, ~~AMS6485~~ OR AMS6487.

HEAT TREATMENT:

48 HRC MAX.

FINISH:

CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2.

LUBRICATION:

LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION.

EXAMPLE OF PART NUMBER:

MS14156-04 = .2500-28 NUT, CADMIUM PLATED, SOLUBLE LUBRICANT

NOTES:

- /1/ AXIAL STRENGTH DETERMINED FORM FORMULA $W_a = F_t u A$ WHERE "A" IS THE CROSS SECTIONAL AREA IN SQUARE INCHES, BASED ON THE MAXIMUM PITCH DIAMETER OF BOLT THREAD, " $F_t u$ " IS 180 KSI AND " W_a " IS THE AXIAL STRENGTH IN POUNDS FORCE.
- (2) SURFACE ROUGHNESS: BEARING SURFACE SHALL BE 125 MICROINCHES Ra PER ASME B46.1.
- /3/ PAINT: AFTER BAKE, PAINT THE AREA ABOVE WRENCHING ELEMENT WITH NO. 17875 WHITE PER ~~TT E-489~~ MASTER PAINTERS INSTITUTE, REFERENCE #9, ALKYD, EXTERIOR, GLOSS, (MPI GLOSS LEVEL 6) AND REFERENCE #94, ALKYD, EXTERIOR, SEMI-GLOSS, (MPI GLOSS LEVEL 5).
- (4) THREADS: AS8879 BEFORE LUBRICATION.
- (5) WRENCHING ELEMENT PER MS33787, DRIVERS PER MIL-W-8982.
- (6) DIMENSIONS IN INCHES AND APPLY AFTER FINISH AND PRIOR TO THE APPLICATION OF LUBRICATION UNLESS OTHERWISE SPECIFIED.
- (7) PERFORMANCE PER NASM8985 EXCEPT FOR:
 - a. THREADS AND BEARING SURFACES SHALL BE LUBRICATED WITH ~~MIL-T-5544~~ AMS2518 COMPOUND FOR WRENCH TORQUE, TORQUE EFFECTIVITY, LOCKING TORQUE, PERMANENT SET, ACCELERATED VIBRATION, STRESS DURABILITY AND STRESS CORROSION.
 - b. TABULATED SEATING TORQUE FOR TORQUE EFFECTIVITY TEST.
 - c. MINIMUM BREAKAWAY 1st CYCLE TORQUE VALUES ARE NOT APPLICABLE. USE MINIMUM BREAKAWAY TORQUE VALUES.
 - d. FOR WRENCHING TORQUE BOLTS SHALL BE 220 KSI MINIMUM.

REVISION

1

NASM14156

SHEET 2

① COMPLETELY REVISED