

FED. SUPPLY CLASS

5310

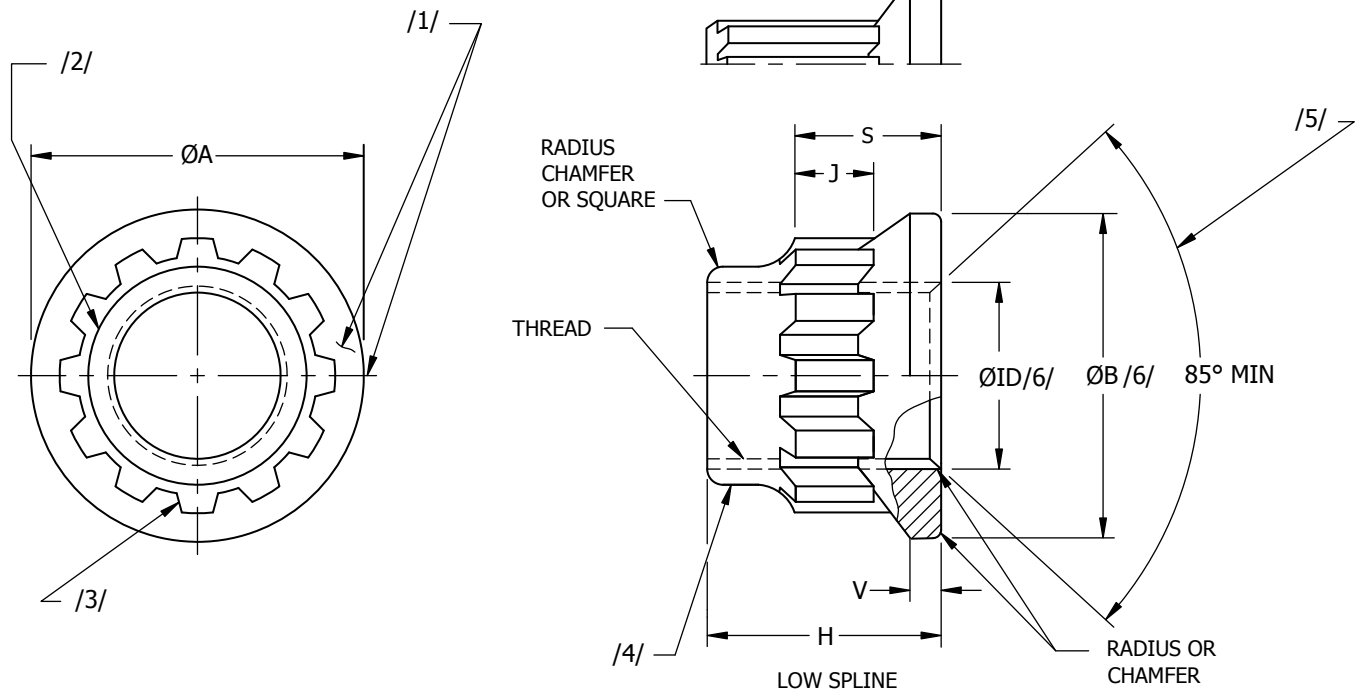


TABLE I – DASH NUMBERS AND DIMENSIONS

(2)

DASH NUMBER		NOM SIZE	THREAD /13/	MS33787 ELEMENT NUMBER	ØA MAX	ØB MIN /6/	ØID /6/		H +.000 -.020	V +.020 -.000	J MIN	S ±.010 /8/	X /14/	ULTIMATE AXIAL STRENGTH LBF MIN /7/	APPROX WEIGHT LB/100
NON DRY LUBE	DRY LUBE						MAX	MIN							
-03	L03	.190	.1900-32 UNJF-3B	8	.362	.322	.220	.190	.220	.023	.089	.142	.003	4,770	.26
-04	L04	.250	.2500-28 UNJF-3B	10	.460	.420	.280	.250	.290	.033	.110	.189	.003	8,540	.51
-05	L05	.312	.3125-24 UNJF-3B	12	.563	.523	.342	.312	.360	.038	.147	.242	.003	13,500	.88
-06	L06	.375	.3750-24 UNJF-3B	14	.669	.629	.405	.375	.430	.045	.176	.291	.003	20,900	1.40
-07	L07	.437	.4375-20 UNJF-3B	18	.773	.733	.473	.438	.500	.053	.206	.311	.003	28,300	2.40
-08	L08	.500	.5000-20 UNJF-3B	20	.879	.839	.535	.500	.575	.060	.235	.362	.003	37,800	3.50
-09	L09	.562	.5625-18 UNJF-3B	22	.982	.942	.597	.562	.650	.068	.264	.444	.004	47,900	4.80
-10	L10	.625	.6250-18 UNJF-3B	24	1.088	1.048	.660	.625	.720	.075	.294	.461	.004	59,900	6.30
-12	L12	.750	.7500-16 UNJF-3B	30	1.296	1.256	.785	.750	.860	.090	.353	.545	.004	86,900	11.00
-14	L14	.875	.8750-14 UNJF-3B	34	1.505	1.465	.910	.875	1.000	.105	.411	.643	.005	119,000	17.00
-16	L16	1.000	1.0000-12 UNJF-3B	38	1.720	1.670	1.035	1.000	1.150	.120	.470	.791	.006	155,000	25.00
-18	L18	1.125	1.1250-12 UNJF-3B	44	1.931	1.881	1.160	1.125	1.300	.135	.529	.826	.007	198,000	37.00
-20	L20	1.250	1.2500-12 UNJF-3B	48	2.144	2.094	1.286	1.250	1.440	.150	.588	.921	.007	247,000	50.00
-22	L22	1.375	1.3750-12 UNJF-3B	52	2.357	2.307	1.410	1.375	1.580	.165	.646	1.031	.008	301,000	66.00
-24	L24	1.500	1.5000-12 UNJF-3B	56	2.571	2.521	1.535	1.500	1.720	.180	.705	1.144	.008	361,000	84.00

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS21084, REVISION B. PART NUMBERS REMAIN MS21084.

THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	
NASM8922	

CUSTODIAN	NATIONAL AEROSPACE STANDARDS COMMITTEE
TITLE	NUT, SELF-LOCKING, STEEL, 220 KSI Ft _u , 450 °F, FLANGED, MS33787 WRENCHING ELEMENT

REVISION	2
CLASSIFICATION	PART STANDARD
NASM21084	
SHEET 1 OF 3	

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.

REVISION DATE: SEPTEMBER 25, 2015

ISSUE DATE: AUGUST 1998

MATERIAL:

ALLOY STEEL: 17-22A (UNS K14675) PER AMS6304, OR H-11 (UNS T20811) PER ~~AMS6485~~ OR AMS6487.

HARDNESS:

48 HRC MAX. (2)

FINISH:

CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 2, OR CADMIUM PLATE IN ACCORDANCE WITH AMS-QQ-P-416 PLUS DRY FILM LUBRICANT, TYPE AND CLASS OF PLATING OPTIONAL IF THE SALT SPRAY REQUIREMENTS OF AMS-QQ-P-416, TYPE II ARE MET.

LUBRICATION:

SOLUBLE LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN THE PROCUREMENT SPECIFICATION. DRY FILM LUBRICANTS SHALL BE IN ACCORDANCE WITH THE PROCUREMENT SPECIFICATION.

CODE:

"F" CODE DESIGNATES FULL SPLINE CONFIGURATION.

"J" CODE DESIGNATES LOW SPLINE CONFIGURATION.

EXAMPLE OF PART NUMBERS:

MS21084-04 = .2500-28 NUT, CADMIUM PLATED, SOLUBLE LUBRICANT, SPLINE HEIGHT OPTIONAL
MS21084L04 = 2500-28 NUT, CADMIUM PLATED, DRY FILM LUBRICATED, SPLINE HEIGHT OPTIONAL
MS21084L04J = .2500-28 NUT, CADMIUM PLATED, DRY FILM LUBRICATED, LOW SPLINE CONFIGURATION
MS21084-04F = .2500-28 NUT, CADIMUM PLATED, SOLUBLE LUBRICANT, FULL SPLINE CONFIGURATION

NOTES:

- /1/ MARK MS21084 AND MFG IDENTIFICATION, POSITION OPTIONAL.
- /2/ SHAPE OF LOCKING PORTION OPTIONAL.
- /3/ WRENCHING ELEMENT: PER MS33787. DRIVERS PER MIL-W-8982.
- /4/ TOOL MARKS AND DISTORTION PERMISSIBLE IN LOCKING AREA.
- /5/ COUNTERSINK, COUNTERBORE OR RADIUS RELIEF TO THREAD WITHIN THE 85° MIN ANGLE AND ID LIMITATION.
- /6/ MINIMUM BEARING AREA BASED ON A BEARING STRESS OF 115 KSI.
- (2) /7/ AXIAL STRENGTH DETERMINED FROM FORMULA $W_a = F_{tu} A$, WHERE A IS THE CROSS SECTIONAL AREA, IN SQUARE INCHES, BASED ON THE MAXIMUM PITCH DIAMETER OF BOLT THREAD, F_{tu} IS 220 KSI AND W_a IS THE AXIAL STRENGTH IN LBF.
- /8/ "S" DIMENSION APPLIES TO LOW HEIGHT SPLINE ONLY.
- (9) DIMENSIONS APPLY AFTER FINISH AND PRIOR TO THE APPLICATION OF LUBRICATION UNLESS OTHERWISE SPECIFIED.

REVISION

2

NASM21084

SHEET 2



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Full document details: AIA NASM21084 2015