

FED. SUPPLY CLASS

5310

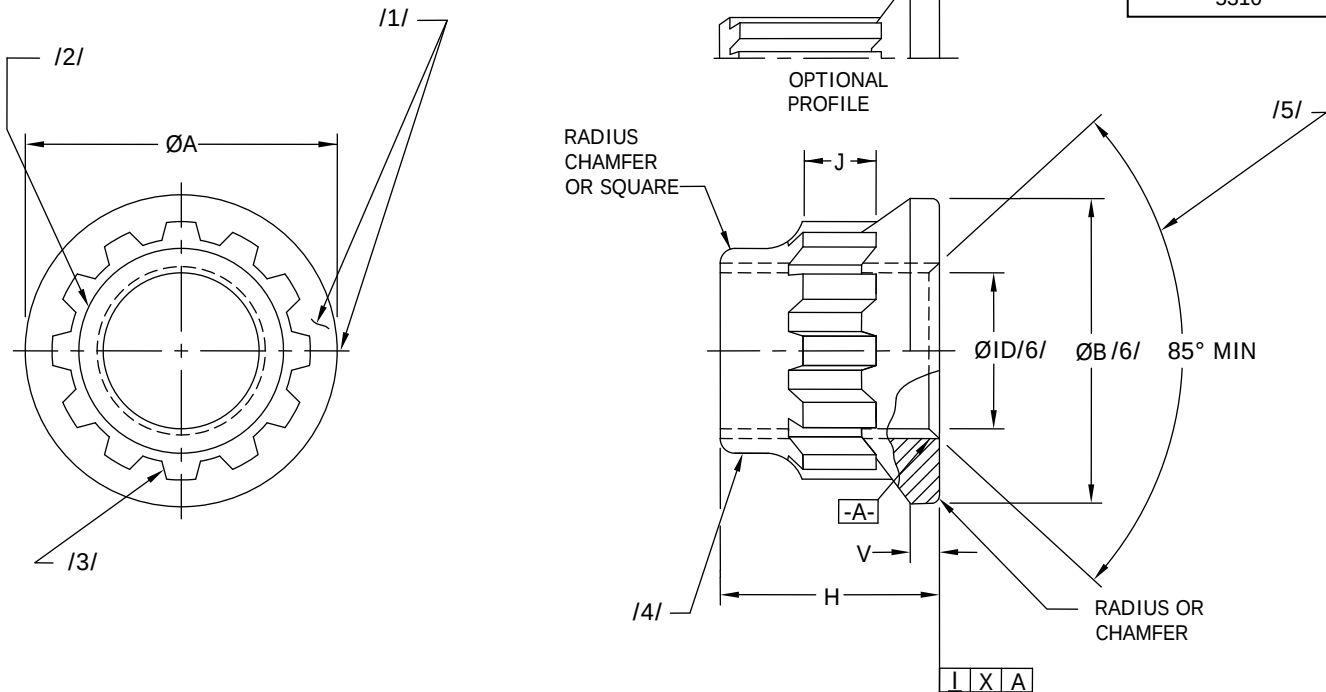


TABLE I – DASH NUMBERS AND DIMENSIONS

DASH NUMBER	NOMINAL SIZE	THREAD /14/	MS33787 ELEMENT NUMBER	ØA	ØB	ØID		H	V	J	X	ULTIMATE AXIAL STRENGTH LBF MIN /7/	APPROX WEIGHT LB/100
				MAX	MIN	MAX	MIN	MAX	MIN	MIN			
03	NO. 10	.1900-32 UNJF-3B	8	.362	.322	.220	.190	.220	.023	.089	.003	4,970	.27
04	.250	.2500-28 UNJF-3B	10	.460	.420	.280	.250	.290	.033	.110	.003	8,870	.53
05	.312	.3125-24 UNJF-3B	12	.563	.522	.342	.312	.360	.038	.147	.003	14,100	.92
06	.375	.3750-24 UNJF-3B	14	.669	.629	.405	.375	.430	.045	.176	.003	20,900	1.47
07	.437	.4375-20 UNJF-3B	18	.773	.733	.473	.438	.500	.053	.206	.003	28,300	2.52
08	.500	.5000-20 UNJF-3B	20	.879	.839	.535	.500	.575	.060	.235	.003	37,800	3.67
09	.562	.5625-18 UNJF-3B	22	.982	.942	.597	.562	.650	.068	.264	.004	47,900	5.04
10	.625	.6250-18 UNJF-3B	24	1.088	1.048	.660	.625	.720	.075	.294	.004	59,900	6.61
12	.750	.7500-16 UNJF-3B	30	1.296	1.256	.785	.750	.860	.090	.353	.004	86,900	11.50
14	.875	.8750-14 UNJF-3B	34	1.505	1.465	.910	.875	1.000	.105	.411	.005	119,000	17.75
16	1.000	1.0000-12 UNJF-3B	38	1.720	1.670	1.035	1.000	1.150	.120	.470	.006	155,000	26.25
18	1.125	1.1250-12 UNJF-3B	44	1.931	1.881	1.160	1.125	1.300	.135	.529	.007	198,000	38.85
20	1.250	1.2500-12 UNJF-3B	48	2.144	2.094	1.285	1.250	1.440	.150	.588	.007	247,000	52.50
22	1.375	1.375-12 UNJF-3B	52	2.357	2.307	1.410	1.375	1.580	.165	.646	.008	301,000	69.30
24	1.500	1.5000-12 UNJF-3B	56	2.571	2.521	1.535	1.500	1.720	.180	.705	.008	361,000	88.20

① COMPLETELY REVISED

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS14182, REV B. PART NUMBERS REMAIN MS14182.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NASM85730	TITLE NUT, SELF-LOCKING, EXTENDED WASHER, ROUND, NICKEL ALLOY 718, 220 KSI F_{tu}, 450 AND 800 °F. SPLINE DRIVE	CLASSIFICATION PART STANDARD

NASM14182
SHEET 1 OF 3

MATERIAL:

NICKEL ALLOY 718 PER AMS5662, OR AMS5663 (UNS N07718).

FINISH:

DRY FILM LUBRICANT PER AS5272, TYPE I. NICKEL OR COPPER STRIKE AS A PRETREATMENT FOR THE APPLICATION OF SOLID (DRY) FILM IS OPTIONAL.
CADMIUM PLATE PER AMS-QQ-P-416; TYPE II, CLASS 2.
SILVER PLATE PER AMS2410 (.0003-.0005 THICKNESS-THREADS ONLY).

EXAMPLE OF PART NUMBER:

PART NUMBER SHALL CONSIST OF THE MS DESIGNATION PLUS FINISH CODE AND DASH NUMBER.

ADD "P" AFTER MS NUMBER TO DESIGNATE CADMIUM PLATE.
ADD "S" AFTER MS NUMBER TO DESIGNATE SILVER PLATE.
ADD "L" AFTER MS NUMBER TO DESIGNATE DRY FILM LUBRICANT.

EXAMPLE: MS14182 S 14

.875 INCH DIA. SIZE
SILVER PLATE FINISH
BASIC PART NUMBER

NOTES:

- /1/ MARK MS14182 AND MFG IDENTIFICATION DEPRESSED .010 MAX POSITION OPTIONAL.
- /2/ SHAPE OF LOCKING PORTION OPTIONAL.
- /3/ WRENCHING ELEMENT SEE TABULATION.
- /4/ TOOL MARKS AND DISTORION 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.
- /7/ AXIAL STRENGTH DETERMINED FROM FORMULA $WA = FTU \times A$ WHERE A IS THE CROSS SECTIONAL AREA IN SQUARE INCHES, BASED ON THE MAXIMUM PITCH DIAMETER OF BOLT THREAD, FTU IS 220 KSI AND WA IS THE AXIAL STRENGTH IN POUNDS.
- (8) DIMENSIONS IN INCHES.
- (9) DIMENSIONS APPLY BEFORE LUBRICATION.
- (10) DESIGN AND USAGE INFORMATION: THESE NUTS ARE DESIGNED TO BE USED WITH MS14181 BOLTS AND MS14183 WASHERS. CADMIUM PLATED AND DRY FILM LUBRICATED NUTS ARE NOT INTENDED TO BE USED IN APPLICATIONS WHERE TEMPERATURES EXCEED 450 °F. SILVER PLATED NUTS ARE NOT INTENDED TO BE USED IN APPLICATIONS WHERE TEMPERATURES EXCEED 800 °F.

REVISION

1

MS14182

SHEET 2

① COMPLETELY REVISED



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