

FED. SUPPLY CLASS

5306

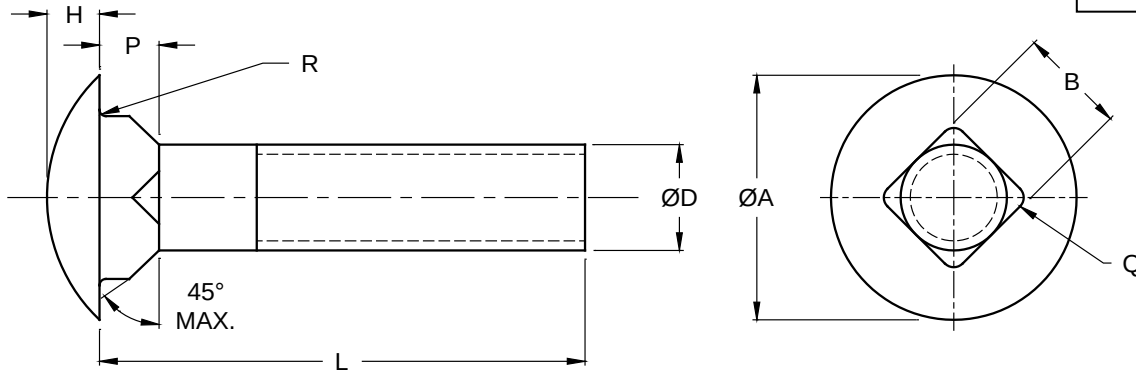


TABLE I – DASH NUMBERS AND DIMENSIONS

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NOMINAL SIZE		.1900	.2500	.3125	.3750	.4375	.5000	.6250	.7500
THREADS PER INCH		24 UNC-2A	20 UNC-2A	18 UNC-2A	16 UNC-2A	14 UNC-2A	13 UNC-2A	11 UNC-2A	10 UNC-2A
ØD BODY	MAX	.199	.260	.324	.388	.452	.515	.642	.768
	MIN	.182	.237	.298	.360	.421	.483	.605	.729
ØA HEAD	MAX	.469	.594	.719	.844	.969	1.094	1.344	1.594
	MIN	.438	.563	.688	.782	.907	1.032	1.219	1.469
B SQUARE WIDTH	MAX	.199	.260	.324	.388	.452	.515	.642	.768
	MIN	.185	.245	.307	.368	.431	.492	.616	.741
H HEAD HEIGHT	MAX	.114	.145	.176	.208	.239	.270	.344	.406
	MIN	.094	.125	.156	.188	.219	.250	.313	.375
P SQUARE DEPTH	MAX	.125	.156	.187	.219	.250	.281	.344	.406
	MIN	.094	.125	.154	.188	.219	.250	.313	.375
Q CORNER RADIUS		MAX	.031	.031	.047	.047	.047	.078	.078
R FILLET RADIUS		MAX	.031	.031	.031	.031	.031	.062	.062
L LENGTH	TOLERANCE								
	SIZE .190 THRU .375	SIZE .4375 THRU .500	SIZE .625 THRU .750	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO	DASH NO
.750	+.02	+.02	+.02	1	15	40	68		
.875	-.03	-.03	-.03	211	2	41	69		
1.000				2	16	41	69	97	123
1.250				3	17	42	70	98	124
1.500				4	18	43	71	99	125
1.750	+.02	+.04	+.06	5	19	44	72	100	126
2.000	-.04	-.06	-.06	6	20	45	73	101	127
2.250				7	21	46	74	102	128
2.500				8	22	47	75	103	129
2.750				9	23	48	76	104	130
3.000				10	24	49	77	105	131
3.250	+.04	+.06	+.08	11	25	50	78	106	132
3.500	-.06	-.08	-.10	12	26	51	79	107	133
3.750				13	27	52	80	108	134
4.000				14	28	53	81	109	135
4.250					202	213	205	207	209
4.500					29	54	82	110	136
4.750	+.06	+.08	±.10		203	204	206	208	210
5.000	-.10	-.10			30	55	83	111	137
5.500					31	56	84	112	138
6.000					32	57	85	113	139
6.500						33	58	114	140
7.000						34	59	115	141
7.500						35	60	116	142
8.000						36	61	117	143
8.500									144
9.000									145
9.500	+.10	+.12	+.14		212	63	91	119	146
10.000	-.18	-.18	-.18			64	92	120	147
11.000						65	93	121	148
11.500						214	94		
12.000						215	95		
13.000						216	217		
14.000							218		

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS35751, REVISION E. PART NUMBERS REMAIN MS35751.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 2
PROCUREMENT SPECIFICATION ASME B18.5	TITLE BOLT, SQUARE NECK, ROUND HEAD (CARRIAGE), STEEL, CADMIUM OR ZINC PLATED, UNC-2A	CLASSIFICATION PART STANDARD NASM35751



NASM35751
SHEET 1 OF 2
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MATERIAL: CARBON STEEL IN ACCORDANCE WITH THE PROCUREMENT SPECIFICATION OR GRADE A IN ACCORDANCE WITH ASTM A307 OR GRADE 1 IN ACCORDANCE WITH SAE J429. THE MINIMUM ULTIMATE TENSILE STRENGTH SHALL BE 60 KSI.

FINISH: CADMIUM PLATED IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 3 OR AMS-C-81562, TYPE II, CLASS 3 OR ZINC COATED IN ACCORDANCE WITH ASTM B633, TYPE II, CLASS FE/ZN5 OR AMS-C-81562, TYPE II, CLASS 3.

CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.

EXAMPLE OF PART NUMBER:

EXAMPLE: MS35751-1

└──────────┘ DASH NUMBER

└──────────────────────────┘ BASIC MS NUMBER

- ② MS35751-1 = BOLT, SQUARE NECK, ROUND HEAD (CARRIAGE), STEEL, CADMIUM OR ZINC PLATED, .1900-24 UNC-2A THREAD, .75 LENGTH.

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) MS35751 SUPERSEDES BADX SERIES.
- (3) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- ② (4) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- /5/ DASH NUMBERS 97 THRU 121 AND 207 AND 208 ARE INACTIVE FOR NEW DESIGN. FOR DESCRIPTION OF STATUS NOTES, SEE NAS380.
- (6) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (7) THE THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2.
- (8) MINIMUM FULL FORM THREAD LENGTH SHALL BE TWICE THE NOMINAL SIZE PLUS .25 INCH FOR BOLT LENGTHS OF 6 INCH AND SHORTER, AND TWICE THE NOMINAL SIZE PLUS .50 INCH FOR LONGER LENGTHS. BOLTS TOO SHORT FOR MINIMUM THREAD LENGTH SHALL HAVE FULL FORM THREADS EXTENDING AS CLOSE TO THE NECK AS PRACTICABLE, AND SHALL BE 2-1/2 PITCHES FROM THE NECK.
- (9) QUALITY ASSURANCE PROVISIONS SHALL BE IN ACCORDANCE WITH ASME B18.18.1. THREAD ACCEPTABILITY SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21, AND ANSI B18.18.1, INSPECTION LEVEL 8.
- (10) PACKAGING SHALL BE IN ACCORDANCE WITH ASTM D3951.
- (11) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

REVISION
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