

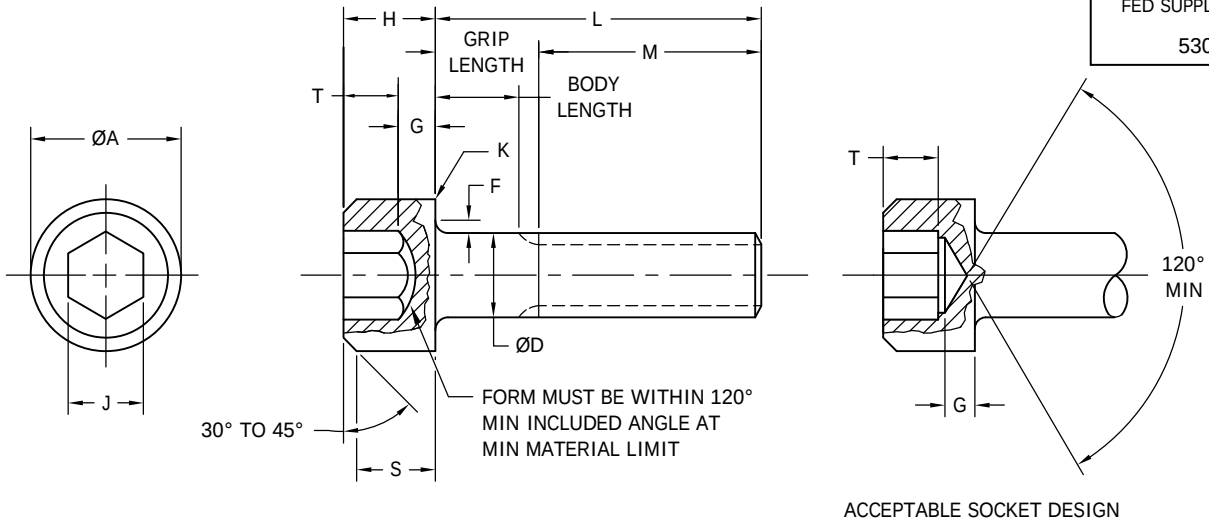


TABLE I – DIMENSIONS AND DASH NUMBERS

NOMINAL SIZE			#2 (.0860)			#4 (.1120)			#6 (.1380)		
THREADS PER INCH			56 UNC-3A			40 UNC-3A			32 UNC-3A		
ØD	BODY	MAX	.0860			.1120			.1380		
		MIN	.0822			.1075			.1329		
ØA	HEAD	MAX	.140			.183			.226		
		MIN	.134			.176			.218		
H	HEAD HEIGHT	MAX	.086			.112			.138		
		MIN	.083			.108			.134		
S	HEAD SIDE HEIGHT	MIN	.077			.101			.124		
		MAX	.0791			.0952			.1111		
J	SOCKET WIDTH ACROSS FLATS	MIN	.0781			.0937			.1094		
		MAX	.0791			.0952			.1111		
T	KEY ENGAGEMENT	MIN	.038			.051			.064		
G	WALL THICKNESS	MIN	.029			.038			.047		
K	CHAMFER OR RADIUS	MAX	.003			.005			.005		
F	FILLET EXTENSION	MAX	.008			.009			.010		
		MIN	.004			.005			.006		
M	BASIC THREAD LENGTH /2/	REF	.625			.7500			.7500		
MIN TENSILE STRENGTH LOAD LBF			300			480			730		
L LENGTH	TOLERANCE		DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX	DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX	DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX
.188	+.000 -.030		1								
.250			2			9			16		
.375			3			10			17		
.500			4			11			18		
.625						12			19		
.750						13			20		
1.000									21		

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THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS16995, REVISION H. PART NUMBERS REMAIN MS16995.

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE		REVISION 2
PROCUREMENT SPECIFICATION FF-S-86	TITLE SCREW, CAP, SOCKET HEAD-HEXAGON, CORROSION RESISTANT STEEL, UNC-3A		CLASSIFICATION PART STANDARD
			MS16995

TABLE I – DIMENSIONS AND DASH NUMBERS (CONTINUED)

NOMINAL SIZE			#8 (.1640)			#10 (.1900)			1/4 (.250)		
THREADS PER INCH			32 UNC-3A			24 UNC-3A			20 UNC-3A		
ØD	BODY	MAX	.1640			.1900			.2500		
		MIN	.1585			.1840			.2435		
ØA	HEAD	MAX	.270			.312			.375		
		MIN	.262			.303			.365		
H	HEAD HEIGHT	MAX	.164			.190			.250		
		MIN	.159			.185			.244		
S	HEAD SIDE HEIGHT	MIN	.148			.171			.225		
J	SOCKET WIDTH ACROSS FLATS	MAX	.1426			.1587			.1900		
		MIN	.1406			.1562			.1875		
T	KEY ENGAGEMENT	MIN	.077			.090			.120		
G	WALL THICKNESS	MIN	.056			.065			.095		
K	CHAMFER OR RADIUS	MAX	.005			.005			.008		
F	FILLET EXTENSION	MAX	.012			.014			.014		
		MIN	.007			.009			.009		
M	BASIC THREAD LENGTH /2/	REF	.875			.875			1.000		
MIN TENSILE STRENGTH LOAD LBF			1,120			1,400			2,540		
L LENGTH	TOLERANCE		DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX	DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX	DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX
.375	+.000 −.030		25			35			47		
.500			26			36			48		
.625			27			37			49		
.750			28			38			50		
.875			29			39			51		
1.000			30			40			52		
1.250	+.000 −.040					41	.375	.167	53		
1.500						42	.375	.167	54	.500	.250
1.750									55	.500	.250
2.000									56	1.000	.750

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TABLE I – DIMENSIONS AND DASH NUMBERS (CONTINUED)

NOMINAL SIZE			5/16 (.3125)			3/8 (.375)			1/2 (.500)		
THREADS PER INCH			18 UNC-3A			16 UNC-3A			13 UNC-3A		
ØD	BODY	MAX	.3125			.3750			.5000		
		MIN	.3053			.3678			.4919		
ØA	HEAD	MAX	.469			.563			.750		
		MIN	.457			.550			.735		
H	HEAD HEIGHT	MAX	.313			.375			.500		
		MIN	.306			.368			.492		
S	HEAD SIDE HEIGHT	MIN	.281			.337			.450		
J	SOCKET WIDTH ACROSS FLATS	MAX	.2530			.3160			.3790		
		MIN	.2500			.3125			.3750		
T	KEY ENGAGEMENT	MIN	.151			.182			.245		
G	WALL THICKNESS	MIN	.119			.143			.190		
K	CHAMFER OR RADIUS	MAX	.008			.008			.010		
F	FILLET EXTENSION	MAX	.017			.020			.026		
		MIN	.012			.015			.020		
M	BASIC THREAD LENGTH /2/	REF	1.125			1.250			1.500		
MIN TENSILE STRENGTH LOAD LBF			4,190			6,200			11,300		
L LENGTH	TOLERANCE		DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX	DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX	DASH NO	GRIP LENGTH MAX	BODY LENGTH MAX
	SIZE .3125 AND .375	SIZE .500									
.375	+.000 −.030	+.000 −.030	61								
.500			62			77					
.625			63			78					
.750			64			79			92		
.875			65			80			93		
1.000			66			81			94		
1.250	+.000 −.040	+.000 −.060	67			82			95		
1.500			68			83			96		
1.750			69	.625	.347	84	.500	.187	97		
2.000			70			85	.500	.187	98		
2.250			71	1.125	.847	86	1.000	.687	99	.750	.365
2.500			72	1.125	.847	87	1.000	.687	100	.750	.365
2.750	+.000 −.060	+.000 −.080							101	.750	.365
3.000									102	1.500	1.115

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