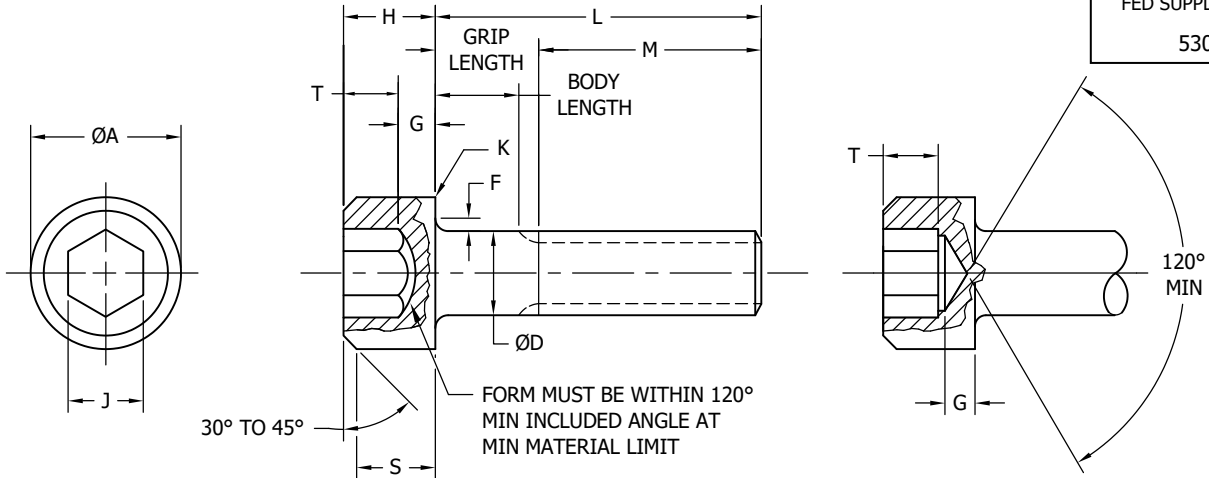




(3)

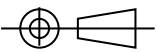
ACCEPTABLE SOCKET DESIGN

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		
J	SOCKET WIDTH ACROSS FLATS	MAX	.0791			.0952			.1111		
		MIN	.0781			.0937			.1094		
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 MIN	DASH NO	GRIP LENGTH MAX	BODY LENGTH MIN	DASH NO	GRIP LENGTH MAX	BODY LENGTH MIN
.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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THIRD ANGLE PROJECTION



CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
3

PROCUREMENT SPECIFICATION

FF-S-86

TITLE

**SCREW, CAP, SOCKET HEAD-HEXAGON,
CORROSION RESISTANT STEEL, UNC-3A**

CLASSIFICATION
PART STANDARD

MS16995
SHEET 1 OF 7

③ 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 MIN	DASH NO	GRIP LENGTH MAX	BODY LENGTH MIN	DASH NO	GRIP LENGTH MAX	BODY LENGTH MIN
.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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