

SC-156

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
0	ORIGINAL RELEASE FOR PRODUCTION	5-16-64		SRG		

CHART-1

NOMINAL SIZE	D		A		H		J	T	F	L
	BODY DIA.		HEAD DIA.		HEAD HEIGHT		HEXAGON SOCKET SIZE	KEY ENGAGEMENT	FILLET	BASIC THREAD LENGTH
	MAX.	MIN.	THEO. RETICAL SHARP MAX.	ABS. MIN.	REFERENCE	FLUSHNESS TOLERANCE	NOM	MIN	MAX.	
2	0.0860	0.0822	0.197	0.168	0.064	0.008	0.050	0.038	0.009	IN 1/16 th OF AN INCH
3	0.0990	0.0949	0.226	0.193	0.073	0.010	1/16	0.044	0.010	
4	0.1120	0.1075	0.255	0.218	0.083	0.011	1/16	0.055	0.011	
5	0.1250	0.1202	0.281	0.240	0.090	0.012	5/64	0.061	0.012	
6	0.1380	0.1329	0.307	0.263	0.097	0.013	5/64	0.066	0.014	
8	0.1640	0.1585	0.359	0.311	0.112	0.014	3/32	0.076	0.016	
10	0.1900	0.1840	0.411	0.359	0.127	0.015	1/8	0.087	0.019	
1/4	0.2500	0.2435	0.531	0.480	0.161	0.016	5/32	0.111	0.025	
5/16	0.3125	0.3053	0.656	0.600	0.198	0.017	3/16	0.135	0.031	
3/8	0.3750	0.3678	0.781	0.720	0.234	0.018	7/32	0.159	0.037	
7/16	0.4375	0.4294	0.844	0.781	0.234	0.018	1/4	0.159	0.044	
1/2	0.5000	0.4919	0.937	0.872	0.251	0.018	5/16	0.172	0.050	
5/8	0.6250	0.6163	1.188	1.112	0.324	0.022	3/8	0.220	0.050	
3/4	0.7500	0.7406	1.438	1.355	0.396	0.024	3/8	0.270	0.050	

CHART-2 THREAD SIZES & CODES

ALL THREADS SHALL BE CLASS 2A

THREAD SIZE	TMC THD. CODE	THREAD SERIES	THREAD SIZE	TMC THD. CODE	THREAD SERIES
2-56	0256	UNC	1/4-28	2528	UNF
3-48	0348	UNC	5/16-18	3118	UNC
4-40	0440	UNC	5/16-24	3124	UNF
5-40	0540	UNC	3/8-16	3716	UNC
6-32	0632	UNC	3/8-24	3724	UNF
8-32	0832	UNC	7/16-14	4314	UNC
10-24	1024	UNC	1/2-13	5013	UNC
10-32	1032	UNF	1/2-20	5020	UNF
1/4-20	2520	UNC	5/8-11	6211	UNC
			3/4-10	7510	UNC

CHART-4 FINISHES

TMC CODE	FINISH	TMC SPEC.
N	BRIGHT NICKEL	S-135
S	PASSIVATE STAINLESS STEEL ONLY	S-104
P	SILVER PLATE	S-245
O	BLACK OXIDE	
C	CADMIUM PLATE	S-105

CHART-3 MATERIALS

TMC CODE	MATERIAL
S	STEEL, PLAIN
S	STAINLESS STEEL, TYPE 18-18

CHART-5

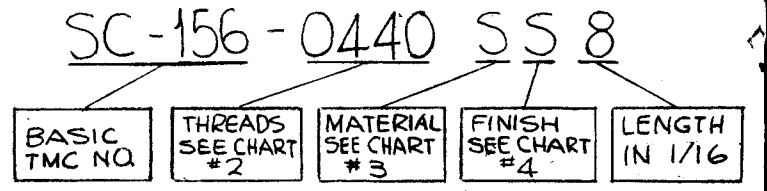
NOMINAL SCREW SIZE	NOMINAL SCREW LENGTH	STANDARD LENGTH INCREMENT
2	1/8 THRU 1/4	1/16
TO	1/4 THRU 1	1/8
3/4	1 THRU 3 1/2	1/4
	3 1/2 THRU 6	1/2

1- THREAD LENGTH- THE LENGTH OF THE THREAD SHALL BE MEASURED FROM THE EXTREME POINT TO THE LAST COMPLETE (FULL FORM) THREAD. THE MINIMUM COMPLETE THREAD LENGTH ON THE PRODUCT SHALL CONFORM TO THE BASIC THREAD LENGTH SPECIFIED IN CHART-1. THE MAXIMUM COMPLETE THREAD LENGTH SHALL BE THE BASIC THREAD LENGTH PLUS THE BASIC SCREW DIA. ON SCREWS TOO SHORT TO ACCOMMODATE THE MINIMUM THREAD LENGTH, THE COMPLETE THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE INTERSECTION OF THE CONICAL PORTION OF THE HEAD WITH THE BASIC SCREW DIA.

2- ALL SPECS SHALL BE IN ACCORDANCE WITH AMERICAN STD B18.3-1961

NOTES

TMC PART NO. TO BE IN THE FOLLOWING FORM:



Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	

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REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
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F. BUDETT		LIST OF MATERIAL	
MATERIAL	SEE CHART 3	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH	SEE CHART 4	TITLE SCREW, CAP, SOCKET HEAD, FLAT	

UNLESS OTHERWISE SPECIFIED		DRAWN	DATE	FINAL APPROVAL		DATE
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SRG	11-26-63	RSC		
DECIMALS		CHECKED	DATE	ELECT. DES.		DATE
.X ± .05	TOLERANCES	aa		2B		9/16/64
.XX ± .01		MECH. DES.		DATE		
.XXX ± .005		SK		9/14/64		
FRACTIONS		SHEET		REV. LTR.		
± 1/64		SC-156		0		
ANGLES						
± 0° 30'						