

TABLE II

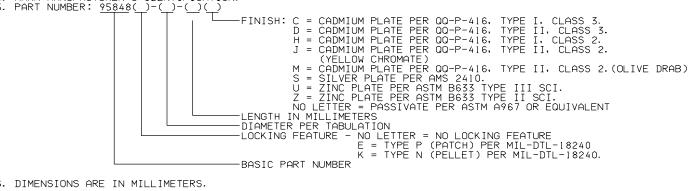
LENGTH TOLERANCE, mm						
NOMINAL SCREW LENGTH TOLERANCE						
UP TO 16, INCL ±0.3						
OVER 16 TO 60, INCL	±0.5					
OVER 60 TO 150, INCL	±0.8					

## TABLE I CONTINUED

NOM. DIA.	*TENSILE STRENGTH kn min	DOUBLE SHEAR STRENGTH kN MIN
М3	1.9	4.7
M4	3.4	8.3
M5	5. 5	13.0
M6	7. 7	18.7
M8	14.1	33. 2
MIO	22.3	51.8
M12	32.4	74.6
MI6	60.3	132.7
M20	94.2	207. 3

\* ULTIMATE TENSILE STRENGTH IS CALCULATED USING TENSILE STRESS AREA PER APPENDIX B OF ASME B1.13M AND 385MPa STRESS LEVEL

- 1. MATERIAL: AUSTENITIC STAINLESS STEEL PER CHEMISTRY OF ASTM F879M.
  2. FINISH: SEE NOTE 5.
  3. DIMENSIONS AND GEOMETRIC TOLERANCING PER ASME B18.3.5M INCLUDING MANUFACTURING NOTES NOT LISTED IN THIS DRAWING.
  4. MARK MANUFACTURER'S IDENTIFICATION.
  5. PART NUMBER: 95848()-()-()-()()



6. DIMENSIONS ARE IN MILLIMETERS.

INFORMATION ON THIS DOCUMENT IS A TRADE SECRET, PROPRIETARY, AND SHALL NOT BE USED OR REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN AUTHORIZATION OF SPS TECHNOLOGIES.										
TOLERANCES ±0.25 AND ±2*	THIS PRODUCT DRAWING	CDC	FSCM NO. 56878	STANDARDS AND SPECIFICATIONS						
SURFACE ROUGHNESS 3.2	IS DRAFTED IN ACCORDANCE	TECHNOLOGIES	CUSTODIAN: JENKINTOWN, PA.	ASTM F879M						
UNLESS OTHERWISE NOTED	WITH ASME YI4.5M									
DRAWN BY:KATHY SCHWARTZ	DATE: 3/26/01	TITLE SCREW, FLAT HEAD, HEXAGON RECES	SS	PART NUMBER: 95848( )-( )-( )( )						
APPROVED: S BUZOLITS	DOTE : 4 /07 /01	AUSTENITIC STAINLESS STEEL, 385M	1Pa							
APPROVED: S FOSTER	DATE: 4/03/01	4	SHEET 1 OF 2							

## \*\*\*DRS GENERATED\*\*\* PRINTED COPIES ARE UNCONTROLLED

## TABLE III

FOR LENGTHS SHORTER THAN LISTED, (LENGTHS ABOVE HEAVY LINE) SCREWS WILL BE THREADED TO WITHIN 3 THREAD PITCHES OF THE HEAD

	BODY AND GRIP LENGTHS FOR FLAT HEAD SOCKET SCREWS																			
NOM. DIA.	Μ	13	١	14	٧	15	М	6	M	18	М	10	М	12	М	1 4	М	16	М	20
NOM LENGTH	L <sub>G</sub>	LB	L <sub>G</sub>	LB	LG	LB	L <sub>G</sub>	LB	L <sub>G</sub>	LB	L <sub>G</sub>	L <sub>B</sub>	L <sub>G</sub>	LB	L <sub>G</sub>	LB	L <sub>G</sub>	LB	L <sub>G</sub>	L <sub>B</sub>
35	1 7	14.5	15	11.5																
40	22	19.5	20	16.5	18	14														
45	27	24.5	25	21.5	23	19	21	16												
50	32	29.5	30	26.5	28	24	26	21	22	15. /										
55	37	34.5	35	31.5	33	29	31	26	27	20.7		00 F								
60			40	36.5	38 43	34 39	36	31 36	32 37	25.7	28 33	20.5	29	20.2						
65 70			45 50	41.5	48	44	41	41	42	35. 7	38	30.5	34	25.2	30	20				
80			60	56.5	58	54	56	51	52	45. 7	48	40.5	44	35. 2		30	36	26		
90			- 00	30.3	68	64	66	61	62	55. 7	58	50.5	54	45. 2	50	40	46	36		
100					78	74	76	71	72	65. 7	68	60.5	64	55.2		50	56	46		
110							86	81	82	75. 7	78	70.5		65.2	70	60	66	56	58	45.5
120							96	91	92	85.7	88	80.5	84	75.2	80	70	76	66	68	55. 5
130									102	95.7	98	90.5	94	85.2	90	80	86	76	78	65.5
140	Ť								112	105.7	108	100.5	104	95.2	100	90	96	86	88	75.5
150									122	115.7	118	110.5	114	105.2	110	100	106	96	98	85.5

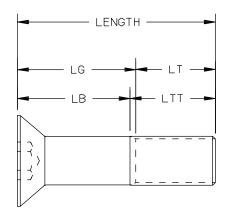


TABLE IV											
NOM. DIA.	LT THREAD LENGTH MIN	LTT TOTAL THREAD LENGTH MAX									
M3	18.0	20.5									
M4	20.0	23.5									
M5	22.0	26.0									
M6	24.0	29.0									
M8	28.0	34.3									
M10	32.0	39.5									
M12	36.0	44.8									
M14	40.0	50.0									
M16	44.0	54.0									
M20	52.0	64.5									

- A) THE LENGTH OF THE THREAD SHALL BE MEASURED, PARALLEL TO THE AXIS OF THE SCREW, FROM THE EXTREME POINT TO THE LAST COMPLETE (FULL-FORM) THREAD. THREAD LENGTH, ON SOCKET FLAT COUNTERSUNK HEAD CAP SCREWS, SHALL BE AS DEFINED BY TABLE IV AND APPLICABLE NOTES.
- B) GRIP GAGING LENGTH (LG): GRIP GAGING LENGTH IS THE DISTANCE, MEASURED PARALLEL TO THE AXIS OF THE SCREW, FROM THE TOP OF THE HEAD TO THE FIRST COMPLETE (FULL-FORM) THREAD UNDER THE HEAD SEE ABOVE.
- C) BODY LENGTH (LB): BODY LENGTH IS THE LENGTH, MEASURED PARALLEL TO THE AXIS OF THE SCREW, OF THE UNTHREADED PORTION OF THE SHANK AND THE HEAD HEIGHT - SEE ABOVE.
- D) TABULATED (LG) VALUES ARE MAXIMUM AND REPRESENT THE MINIMUM DESIGN GRIP LENGTH, INCLUDING THE REFERENCE HEAD HEIGHT, OF THE SCREW. THEY SHALL BE MEASURED FROM THE TOP OF THE HEAD TO THE FACE OF A GO THREAD RING GAGE, HAVING THE THREAD COUNTERSINK AND/OR COUNTERBORE REMOVED, WHICH HAS BEEN ASSEMBLED BY HAND AS FAR AS THE THREAD WILL PERMIT. THE TABULATED (LB) VALUES ARE MINIMUM AND REPRESENT THE MINIMUM BODY LENGTH, INCLUDING THE REFERENCE HEAD HEIGHT OF THE SCREW. THEY ARE EQUAL TO (LG) MINUS 5 TIMES THE PITCH OF THE THREAD FOR THE RESPECTIVE SCREW SIZE.
- E) SCREWS HAVING NOMINAL LENGTHS FALLING BETWEEN THOSE FOR WHICH (LG) AND (LB) VALUES ARE TABULATED IN TABLE IV SHALL HAVE (LG) AND (LB) DIMENSIONS CONFORMING WITH THOSE OF THE NEXT SHORTER TABULATED NOMINAL LENGTH FOR THE RESPECTIVE SCREW SIZE.
- F) FOR SCREWS OF NOMINAL LENGTHS LONGER THAN THOSE FOR WHICH (LG) AND (LB) VALUES ARE TABULATED IN TABLE IV, THE GRIP GAGING LENGTH OF THE SCREWS SHALL BE DETERMINED AS FOLLOWS:

 $\begin{array}{l} \mathsf{LG} = \mathsf{L} - \mathsf{LT} \\ \mathsf{LB} = \mathsf{L} - \mathsf{LTT} \\ \mathsf{WHERE:} \ \mathsf{L} = \mathsf{NOMINAL} \ \mathsf{LENGTH;} \ \mathsf{LT} = \mathsf{MINIMUM} \ \mathsf{THREAD} \ \mathsf{LENGTH;} \ \mathsf{LTT} = \mathsf{MAXIMUM} \ \mathsf{TOTAL} \ \mathsf{THREAD} \ \mathsf{LENGTH} \\ \end{array}$ 

TOLERANCES ±0,25 AND ±2° SURFACE ROUGHNESS 3.2/ UNLESS OTHERWISE NOTED

THIS PRODUCT DRAWING IS DRAFTED IN ACCORDANCE WITH ASME Y14.5M



PART NUMBER: 95848( )-( )-( )( )

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