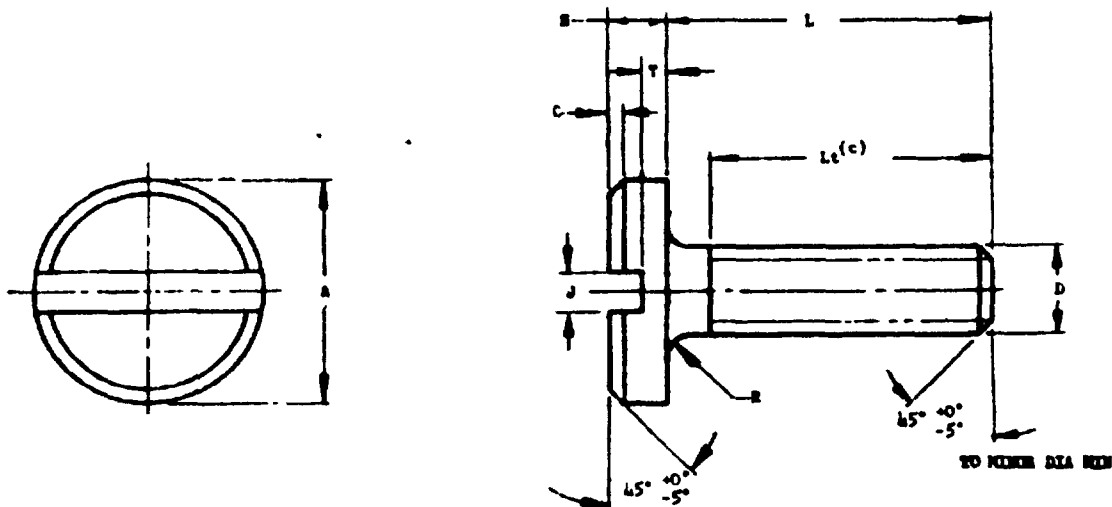


FED SUP CLASS
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SIZE DESIGNATION	TOL PER INCH	D MAJ MAJOR DIA	HEAD DIMENSIONS										
			A HEAD DIA		C MAX CHAMFER	H HEAD HGT		J SLOT WIDTH		T(a) SLOT DEPTH		R RADIUS	
			MAJ	MIN		MAJ	MIN	MAJ	MIN	MAJ	MIN	MAJ	MIN
.40 UNF	25L	.0151	.041	.039	.002	.010	.008	.006	.004	.005	.003	.004	.002
.50 UNF	20J	.0197	.051	.049	.003	.012	.010	.008	.005	.006	.004	.004	.002
.60 UNF	16J	.0236	.062	.058	.004	.016	.013	.010	.007	.008	.006	.006	.003
.80 UNF	12J	.0315	.082	.078	.005	.020	.017	.012	.008	.010	.007	.008	.004
1.00 UNF	10J	.0394	.103	.097	.006	.025	.021	.016	.012	.012	.009	.010	.005
1.20 UNF	10J	.0472	.124	.116	.008	.032	.028	.020	.015	.016	.012	.012	.006

- (a) "T" MEASURED FROM BEARING SURFACE.
 (c) FOR SCREW LENGTHS FOUR TIMES THE MAXIMUM MAJOR DIAMETER OR LESS, THREAD LENGTH (L_c) SHALL EXTEND TO WITHIN TWO THREADS OF THE HEAD BEARING SURFACE. SCREWS OF GREATER LENGTH SHALL HAVE COMPLETE THREADS FOR A MINIMUM OF FOUR MAXIMUM MAJOR DIAMETERS.

MATERIAL: CORROSION-RESISTANT STEELS: QQ-8-763

CLASS 303, COND A

CLASS A16, COND A, HEAT TREAT TO 125,000-145,000 PSI

CLASS A20, COND A, HEAT TREAT TO 220,000-240,000 PSI.

BRASS: QQ-8-626, COND 22, TEMPER HALF HARD.

① NICKEL SILVER: QQ-C-586, COND 1, TEMPER HARD.

FINISH: CORROSION RESISTANT STEEL: PASSIVATE. SEE PROCUREMENT SPECIFICATION

BRASS: UNCOATED, BLACK OXIDE, MIL-V-195.

② NICKEL SILVER: UNCOATED.

SURFACE ROUGHNESS: SURFACE ROUGHNESS OF HEADS SHALL BE AAR3 MAXIMUM IN ACCORDANCE WITH MIL-STD-10.

SCREWS SHALL BE FREE OF ALL PROJECTING BURRS, OBSERVED AT 2X MAGNIFICATION.

DIMENSIONS IN INCHES.

THE DIAMETER OF THE UNTHREADED BODY SHALL NOT BE MORE THAN THE MAXIMUM MAJOR DIAMETER NOR LESS THAN THE MINIMUM PITCH DIAMETER OF THE THREAD.

EXAMPLE OF PART NUMBERS MS21271A19 = .40 UNF CLASS 303 PASSIVATED CORROSION-RESISTANT STEEL SCREW, .025 MAJ LENGTH
 MS21271B19 = .40 UNF CLASS A16 PASSIVATED CORROSION-RESISTANT STEEL SCREW, .025 MAJ LENGTH.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID. ① FOR CHANGES SEE SHEETS 1 & 2.

P.A. DRAP - 220	TITLE	MILITARY STANDARD
Other Cont Navy - Shlwa Army - WC	SCREW, INSTRUMENT - HINDING HEAD	MS21271
PROCUREMENT SPECIFICATION 77-8-89	SUPPLEMENT 1	SHEET 1 OF 2

User Activities
Army - RI, NO
Navy - Mops

Developer Activities:
Army - NO, RI, WC
Navy - Shlwa
USAF - ASD, MDA

This military standard is approved by the Department of Defense and is mandatory on all activities. Subsequent to all engineering and design specifications and for repetitive use shall be made from this document.

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CORROSION RESISTANT STEEL CLASS 303	CORROSION RESISTANT STEEL CLASS 316	CORROSION RESISTANT STEEL CLASS 320	BRASS	BRASS BLACK OXIDE	NICKEL SILVER	L LENGTH	
DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	MAX	MIN
.40 UNH							
A19	B19	C19	D19	E19	F19	.025	.021
A20	B20	C20	D20	E20	F20	.032	.027
A21	B21	C21	D21	E21	F21	.040	.035
A22	B22	C22	D22	E22	F22	.050	.044
A23	B23	C23	D23	E23	F23	.060	.054
A24	B24	C24	D24	E24	F24	.080	.072
A25	B25	C25	D25	E25	F25	.100	.092
A26	B26	C26	D26	E26	F26	.120	.110
A27	B27	C27	D27	E27	F27	.160	.150
.50 UNH							
A37	B37	C37	D37	E37	F37	.032	.027
A38	B38	C38	D38	E38	F38	.040	.035
A39	B39	C39	D39	E39	F39	.050	.044
A40	B40	C40	D40	E40	F40	.060	.054
A41	B41	C41	D41	E41	F41	.080	.072
A42	B42	C42	D42	E42	F42	.100	.092
A43	B43	C43	D43	E43	F43	.120	.110
A44	B44	C44	D44	E44	F44	.160	.150
A45	B45	C45	D45	E45	F45	.200	.188
.60 UNH							
A55	B55	C55	D55	E55	F55	.040	.035
A56	B56	C56	D56	E56	F56	.050	.044
A57	B57	C57	D57	E57	F57	.060	.054
A58	B58	C58	D58	E58	F58	.080	.072
A59	B59	C59	D59	E59	F59	.100	.092
A60	B60	C60	D60	E60	F60	.120	.110
A61	B61	C61	D61	E61	F61	.160	.150
A62	B62	C62	D62	E62	F62	.200	.188
A63	B63	C63	D63	E63	F63	.250	.238
.80 UNH							
A73	B73	C73	D73	E73	F73	.050	.044
A74	B74	C74	D74	E74	F74	.060	.054
A75	B75	C75	D75	E75	F75	.080	.072
A76	B76	C76	D76	E76	F76	.100	.092
A77	B77	C77	D77	E77	F77	.120	.110
A78	B78	C78	D78	E78	F78	.160	.150
A79	B79	C79	D79	E79	F79	.200	.188
A80	B80	C80	D80	E80	F80	.250	.238
A81	B81	C81	D81	E81	F81	.320	.304
1.00 UNH							
A91	B91	C91	D91	E91	F91	.060	.054
A92	B92	C92	D92	E92	F92	.080	.072
A93	B93	C93	D93	E93	F93	.100	.092
A94	B94	C94	D94	E94	F94	.120	.110
A95	B95	C95	D95	E95	F95	.160	.150
A96	B96	C96	D96	E96	F96	.200	.188
A97	B97	C97	D97	E97	F97	.250	.238
A98	B98	C98	D98	E98	F98	.320	.304
A99	B99	C99	D99	E99	F99	.400	.384
1.20 UNH							
A109	B109	C109	D109	E109	F109	.080	.072
A110	B110	C110	D110	E110	F110	.100	.092
A111	B111	C111	D111	E111	F111	.120	.110
A112	B112	C112	D112	E112	F112	.160	.150
A113	B113	C113	D113	E113	F113	.200	.188
A114	B114	C114	D114	E114	F114	.250	.238
A115	B115	C115	D115	E115	F115	.320	.304
A116	B116	C116	D116	E116	F116	.400	.384
A117	B117	C117	D117	E117	F117	.500	.480

User Activities:
Army - KL, NU
Navy - WapsReviewer Activities:
Army - MO, EL, WC
Navy - Ships
USAF - ASD, MOA

This military standard is approved by the Department of Defense and is mandatory on all activities. Submittal for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 28 Sep 61 REVISED ① FOR CHANGES SEE SHEETS 1 & 2.

P A USAF - ASD Other Cost Navy - Ships Army - MO	TITLE SCREW, INSTRUMENT - BINDING HEAD	MILITARY STANDARD MS21271
PROCUREMENT SPECIFICATION 77-3-09	SUPERSEDES:	SHEET 2 OF