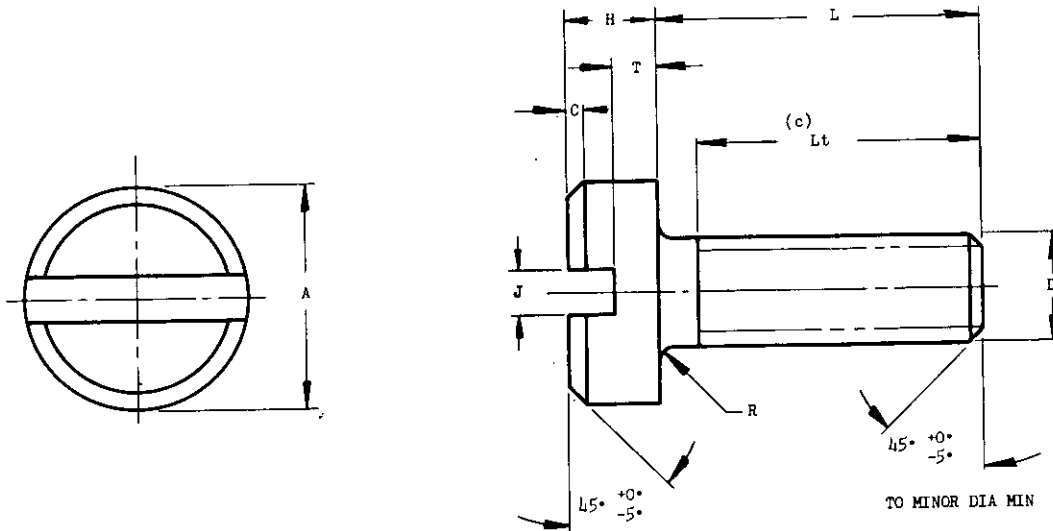


User Activities:
Army - MI, MU
Navy - Wepps

Reviewer Activities:
Army - MO, EL, WC
Navy - Ships
USAF - ASD, MCA

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



SIZE DESIGNATION	THDS PER INCH	D MAX MAJOR DIA	HEAD DIMENSIONS									
			A HEAD DIA		C MAX CHAMFER	H HEAD HGT		J SLOT WIDTH		(a) T SLOT DEPTH		R(b) MAX RAD
			MAX	MIN		MAX	MIN	MAX	MIN	MAX	MIN	
.30 UNM	318	.0118	.025	.023	.002	.010	.008	.005	.003	.005	.003	.002
.40 UNM	25L	.0157	.033	.031	.002	.012	.010	.006	.004	.006	.004	.002
.50 UNM	203	.0197	.041	.039	.003	.016	.013	.008	.005	.008	.006	.002
.60 UNM	169	.0236	.051	.049	.004	.020	.017	.010	.007	.010	.007	.003
.80 UNM	127	.0315	.062	.058	.005	.025	.021	.012	.008	.012	.009	.004
1.00 UNM	102	.0394	.082	.078	.006	.032	.028	.016	.012	.018	.014	.005
1.20 UNM	102	.0472	.103	.097	.008	.040	.035	.020	.015	.020	.016	.006

- (a) "T" MEASURED FROM BEARING SURFACE.
- (b) RELATIVE TO MAX MAJOR DIA.
- (c) FOR SCREW LENGTHS FOUR TIMES THE MAXIMUM MAJOR DIAMETER OR LESS, THREAD LENGTH (Lt) 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-S-763.

CLASS 303, COND A.

CLASS 416, COND A, HEAT TREAT TO 125,000-145,000 PSI.

CLASS 420, COND A, HEAT TREAT TO 220,000-240,000 PSI.

BRASS: QQ-B-626, COMP 22, TEMPER HALF HARD.

(A) NICKEL SILVER: QQ-C-586, COMP 4, TEMPER HARD.

FINISH: (A) CORROSION-RESISTANT STEEL: PASSIVATE. SEE PROCUREMENT SPECIFICATION.

(A) BRASS: UNCOATED; BLACK OXIDE, MIL-F-495.

(A) NICKEL SILVER: UNCOATED.

SURFACE ROUGHNESS: SURFACE ROUGHNESS OF HEADS SHALL BE AA63 MAXIMUM IN ACCORDANCE WITH MIL-STD-10.

SCREWS SHALL BE FREE OF ALL PROJECTING BURRS, OBSERVED AT 3X 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: MS21269A1 = .30 UNM CLASS 303 PASSIVATED CORROSION-RESISTANT STEEL SCREW, .020 MAX LENGTH.
MS21269B1 = .30 UNM CLASS 416 PASSIVATED CORROSION-RESISTANT STEEL SCREW, .020 MAX LENGTH.

(B) CANCELLED AFTER 1 JUNE 1981. NO SUPERSEDING STANDARD.

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

P.A. USAF - ASD	TITLE	MILITARY STANDARD
Other Cust Navy - Ships Army - WC	SCREW, INSTRUMENT - PAN HEAD	MS21269
PROCUREMENT SPECIFICATION FF-S-89	SUPERSEDES:	SHEET 1 OF 1

(B) 1 JUNE 1981

REVISED (A) 31 Oct 63

APPROVED 28 Sep 61