

It detach this form, cut along this line.

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

HEAVY, M, MI, SH, UP  
 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

FED SUP CLASS  
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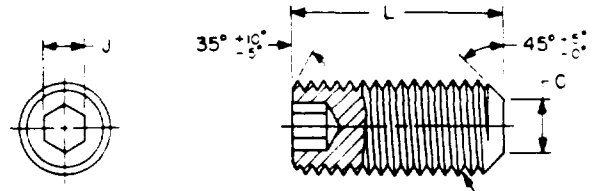


TABLE 1

NOMINAL SIZE		.106	.112	.138	.164	.190	.250	.3125	.375	.500
THREADS PER INCH (UNC-3A)		56	40	32	32	24	20	16	16	13
J SOCKET WIDTH ACROSS FLATS	NOM	.035	.050	.062	.075	.094	.125	.156	.156	.250
C POINT DIAMETER	MAX	.047	.061	.074	.087	.102	.132	.172	.212	.291
	MIN	.030	.051	.064	.076	.088	.118	.156	.194	.270

L LENGTH	TOL	DASH NUMBER												
		PLAIN	PLAIN	SELF LOCK	PLAIN	SELF LOCK	PLAIN	SELF LOCK	PLAIN	PLAIN	PLAIN	PLAIN	PLAIN	
.125	±.010	1*	9*	101		111		131*						
.175		2*	10*	102	17*	112	26*	132	35*	48*				
.250		3*	11*	103	18*	113	27*	133	36*	49	60*			
.312					104	19*	114	28*	134	37*	50*	61*	72*	
.375					105	20*	115	29*	135	38*	51*	62*	73*	83*
.436				106*		116*		136*	39*	52*	63*	74*	84*	
.500				107		117		137	40*	53*	64*	75	85*	
.562				108*		118*		138*						
.625				109		119		139	41*	54*	65*	76*	86*	
.750	±.020					120		140	42*	55*	66*	77*	87	
.875						121		141						
1.000									142					

\* Inactive for new design after 29 DEC 1972 (B)

- NOTES:
- MATERIAL: Corrosion-Resisting Steel, 300 Series, in accordance with procurement specification.
  - PROTECTIVE COATING: Passivated in accordance with QQ-P-35.
  - THREADS: The threads shall be in accordance with MIL-S-7742.
  - MAGNETIC PERMEABILITY: These setscrews have a magnetic permeability of 2.0 max (air = 1.0) for a field strength of H = 200 oersteds, when using a magnetic indicator per MIL-I-17214.
  - DIMENSIONS: All dimensions are in inches, unless otherwise specified.
  - PART NUMBER: The MS part number consists of the MS number, plus the dash number. Example: MS51029-101
  - SELF-LOCKING ELEMENT:
    - The self-locking element shall be in accordance with MIL-F-18240.
    - For design and usage limitations, see MS15981.
    - Location of effective locking area shall be in accordance with MS15981.
    - Maximum ring gage diameter that locking region of setscrew must pass thru freely or with finger pressure shall be the nominal size plus 0.010.
    - MIL-F-18240 doesn't establish torque requirements for lengths above the dashed line. Only a positive indication of torque is required.
  - Referenced documents shall be of the issue in effect on date of invitations for bid.
  - For design feature purposes, this standard takes precedence over procurement documents referenced herein.

(B) For changes see sheets 1 and 2.

P.A. WC Other Cost 82	TITLE SETScrew-HEXAGON SOCKET, FLAT POINT, CORROSION-RESISTING STEEL, PASSIVATED, UNC-3A, PLAIN AND SELF-LOCKING (B)	MILITARY STANDARD MS51029
PROCUREMENT SPECIFICATION FF-S-200	SUPERSEDES MS51030 and in part MS18066, BCIX2.13 and BCUX4.5.	SHEET 1 OF 2

APPROVED 7 MAY 1958 REVISED (A) 29 JAN 1964 (B) 29 DEC 1972

INTERCHANGEABILITY

Screws covered by the dash numbers given in MS51030 are cancelled after 29 January 1964 and superseded by the screws covered on MS51029 having the same dash numbers. Cancelled screws may be used until existing stocks are depleted. Use only MS51029 screws for new design.

ⓑ Screws covered by the dash numbers given in MS18066 in part are cancelled. Cancelled screws may be used until existing stocks are depleted. Use only the superseding screws for new design. Replacement shall be in accordance with Table II.

TABLE II

CANCELLED		SUPERSEDING		CANCELLED		SUPERSEDING		CANCELLED		SUPERSEDING					
MS18066		MS51029		MS18066		MS51029		MS18066		MS51029					
DASH NUMBER		DASH NUMBER		DASH NUMBER		DASH NUMBER		DASH NUMBER		DASH NUMBER					
1	101	46	109	42	118	24	135	5	102	2	111	47	119	30	136
10	103	6	112	54	120	35	137	16	104	11	113	61	121	43	138
22	105	17	114	3	131	48	139	89	106	23	115	7	132	55	140
33	107	90	116	12	133	62	141	41	108	34	117	18	134	67	142

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REVIEWER: AV, IS, MI, MU, ME, OS, SH, YD  
USER: AT, CL, MC, ME, OS, SH, YD

APPROVED 7 MAY 1958 REVISED ⓐ 29 JAN 1964 ⓑ FOR CHANGES SEE SHEETS 1 AND 2

P.A. WC Other Cont 82	TITLE SETSCREW - HEXAGON SOCKET, FLAT POINT, CORROSION-RESISTING STEEL, PASSIVATED, UNC-3A, PLAIN AND SELF-LOCKING	MILITARY STANDARD MS51029
PROCUREMENT SPECIFICATION 77-S-200	SUPERSEDING MS51030 and in part MS18066, BCTE.13 and BCU24.5.	SHEET 2 OF 2