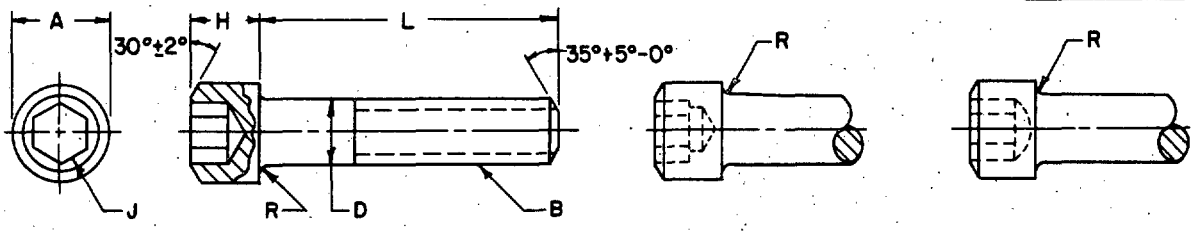
FED. SUP CLASS
5305



	NOMINAL SIZE		#6 (.138)	#8 (.164)	#10 (.190)	1/4	5/16
B	THREADS PER INCH		40 UNF-3A	36 UNF-3A	32 UNF-3A	28 UNF-3A	24 UNF-3A
D	BODY DIAMETER	MAX	.1380	.1640	.1900	.2500	.3125
		MIN	.1353	.1613	.1867	.2464	.3084
A	HEAD DIAMETER	MAX	.226	.270	5/16	3/8	7/16
		MIN	.221	.265	.306	.367	.429
H	HEAD HEIGHT	MAX	.138	.164	.190	1/4	5/16
		MIN	.134	.160	.185	.244	.306
J	SOCKET SIZE	NOM	3/32	1/8	5/32	3/16	7/32
R	RADIUS	MAX	.010	.015	.015	.015	.015
		MIN	.005	.010	.010	.010	.010

L LENGTH	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
1/4	1				
3/8	2	6	10	20	
1/2	3	7	11	21	31
5/8	4		12	22	32
3/4	5	9	13	23	33
7/8			14	24	34
1			15	25	35
1-1/4			16	26	36
1-1/2			17	27	37
1-3/4			18	28	38
2			19	29	39
2-1/4				30	40
2-1/2					41
3					

MATERIAL: Steel, alloy, minimum proof load based on 130,000 PSI, Rockwell C36-43 in accordance with Type I of Procurement Specification.

PROTECTIVE COATING: Cadmium or Zinc, Specification QQ-P-416, Type II, Class 3 or QQ-Z-325, Type II, Class 3.

THREADS: The threads shall be in accordance with Screw-thread Standards for Federal Services, Handbook H-28.

MINIMUM THREAD LENGTH: Shall be one and one half times the diameter, plus 1/2 in. or 3/8 the length whichever is the greater. Screws too short for the formula shall be threaded as close to the head as practicable.

LENGTH TOLERANCE: The allowable tolerance on the length (L) under the head on lengths 2 inches and under shall be 3 per cent of the nominal length with a minimum of .030 in., two-thirds to be applied plus and one-third minus. On lengths over 2 in. to 6 in. plus or minus 1/32 in. and on lengths over 6 in. plus or minus 1/16 in.

NOTES:
(1) Referenced documents of issue in effect on date of invitation for bids shall apply.
(2) This document has been promulgated by the Department of Defense as the Military Standard to limit the selection of the item, product or design covered herein in engineering, design and procurement. This standard shall become effective not later than 90 days after the latest date of approval shown and shall govern when in conflict with other documents referenced herein.
(3) Plain or knurled heads are optional.
(4) The MS part number consists of the MS number, plus the dash number. Example: MS35458-7.
(5) All dimensions in inches.

Ⓑ ENTIRE STANDARD REVISED - INACTIVE FOR DESIGN SEE SHEET 2

APPROVED 29 AUG 1955 REVISED Ⓐ 5 APRIL 62 Ⓑ 21 SEP 1964

REVIEWER: IS, EL, MI, SHIPS, WC, WEPS, MU, MO
USER: MC

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.

P.A. WC	TITLE	MILITARY STANDARD
Other Cust SHIPS ASD	SCREW, CAP, SOCKET HEAD-HEXAGON, ALLOY STEEL, CADMIUM OR ZINC, UNF-3A	MS35458
PROCUREMENT SPECIFICATION FF-S-86	SUPERSEDES:	SHEET 1 OF 2

DD FORM 1 SEP 67 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

FED. SUP CLASS 5305

	NOMINAL SIZE		3/8	7/16	1/2	5/8
B	THREADS PER INCH		24 UNF-3A	20 UNF-3A	20 UNF-3A	18 UNF-3A
D	BODY DIAMETER	MAX MIN	.3750 .3705	.4375 .4326	.5000 .4948	.6250 .6191
A	HEAD DIAMETER	MAX MIN	9/16 .553	5/8 .615	3/4 .739	7/8 .863
H	HEAD HEIGHT	MAX MIN	3/8 .368	7/16 .430	1/2 .492	5/8 .616
J	SOCKET SIZE	NOM	5/16	5/16	3/8	1/2
R	RADIUS	MAX MIN	.015 .010	.030 .020	.030 .020	.030 .020

L LENGTH	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
1/2	42				
5/8	43				
3/4	44				
7/8	45				
1	46	54	62	70	
1-1/4	47	55	63	71	
1-1/2	48	56	64	72	
1-3/4	49		65	73	
2	50	58	66	74	
2-1/4	51		67	75	
2-1/2	52		68	76	
3	53		69	77	

NOTE: For material, protective coating and other pertinent data, see sheet 1.

INACTIVE FOR DESIGN after 21 SEP 1964 Use MS16998 for Design and Engineering.
For maintenance of existing equipment use MS35458 to replace the 5/16, 7/16 and 5/8 inch sizes. These sizes cannot be replaced by those appearing on MS16998 in counterbored holes or other close applications.

REVIEWER: IS, EL, MI, SHIPS, WC, WEPS, MU, MO
USER: MC

APPROVED 29 AUG 1955 REVISED (A) 5 APRIL 62 (B) FOR CHANGES SEE SHEET 1

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.

P.A. WC Other Cust SHIPS ASD	TITLE SCREW, CAP, SOCKET HEAD - HEXAGON, ALLOY STEEL, CADMIUM OR ZINC, UNF-3A	MILITARY STANDARD MS 35458
PROCUREMENT SPECIFICATION FF-S-86	SUPERSEDES:	SHEET 2 OF

DD FORM 1 SEP 67 672-1 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.