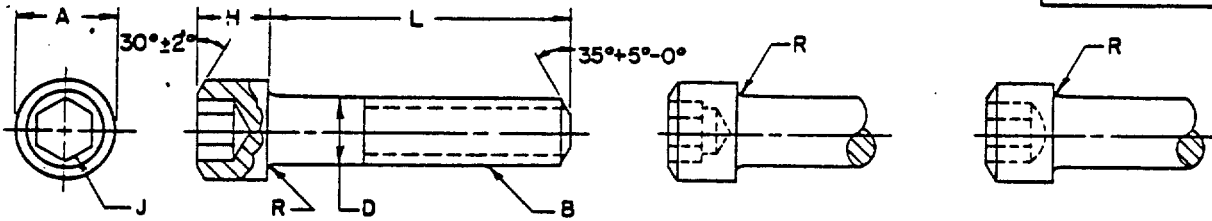


FED. SUP CLASS
5305



NOMINAL SIZE		#4 (.112)	#6 (.138)	#8 (.164)	#10 (.190)	1/4	
B	THREADS PER INCH	40 UNC-3A	32 UNC-3A	32 UNC-3A	24 UNC-3A	20 UNC-3A	
D	BODY DIAMETER	MAX MIN	.1120 .1096	.1380 .1353	.1640 .1613	.1900 .1867	.2500 .2464
A	HEAD DIAMETER	MAX MIN	.183 .178	.226 .221	.270 .265	5/16 .306	3/8 .367
H	HEAD HEIGHT	MAX MIN	.112 .109	.138 .134	.164 .160	.190 .185	1/4 .244
J	SOCKET SIZE	NOM	5/64	3/32	1/8	5/32	3/16
R	RADIUS	MAX MIN	.019 .005	.019 .005	.015 .010	.015 .010	.015 .010
L	LENGTH	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.
	1/4	1	6	13			
	3/8	2	7	14	22		32
	1/2	3	8	15	23		33
	5/8	4	9	16	24		34
	3/4	5	10	17	25		35
	7/8		11	18	26		36
	1		12	19	27		37
	1-1/4			20	28		38
	1-1/2			21	29		39
	1-3/4				30		40
	2				31		41
	2-1/4						42
	2-1/2						43
	2-3/4						44
	3						45

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 twice the diameter, plus 1/2 in. or 1/2 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: MS35457-3.
 - (5) All dimensions in inches.

ⓑ ENTIRE STANDARD REVISED-INACTIVE FOR DESIGN SEE SHEET 3

P.A.	WC	TITLE	MILITARY STANDARD
Other Cust	SHIPS ASD	SCREW, CAP, SOCKET HEAD-HEXAGON, ALLOY STEEL, CADMIUM OR ZINC, UNC-3A	MS35457
PROCUREMENT SPECIFICATION FF-S-86	SUPERSEDES: https://assist.dia.mil -- Downloaded: 2019-05-24 12:03:32 Check the source to verify that this is the current version before use.		SHEET 1 OF 3

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

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

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

REVIEWER: JS, EL, MI, SHIPS, WC, WEPS, HU, MO
 USER: MC, DOCKS

		FED. SUP CLASS 5305					
NOMINAL SIZE		5/16	3/8	7/16	1/2	5/8	
B THREADS PER INCH		18 UNC-3A	16 UNC-3A	14 UNC-3A	13 UNC-3A	11 UNC-3A	
D	BODY DIAMETER	MAX MIN	.3125 .3084	.3750 .3705	.4375 .4326	.5000 .4948	.6250 .6191
A	HEAD DIAMETER	MAX MIN	7/16 .429	9/16 .553	5/8 .615	3/4 .739	7/8 .863
H	HEAD HEIGHT	MAX MIN	5/16 .306	3/8 .368	7/16 .430	1/2 .492	5/8 .616
J	SOCKET SIZE	NOM	7/32	5/16	5/16	3/8	1/2
R	RADIUS	MAX MIN	.015 .010	.015 .010	.030 .020	.030 .020	.030 .020
L	LENGTH	DASH NO.	DASH NO.	DASH NO.	DASH NO.	DASH NO.	
	3/8	46					
	1/2	47	62	80	98		
	5/8	48	63	81	99		
	3/4	49	64	82	100		
	7/8	50	65	83	101		
	1	51	66	84	102	118	
	1-1/4	52	67	85	103	119	
	1-1/2	53	68	86	104	120	
	1-3/4	54	69	87	105	121	
	2	55	70	88	106	122	
	2-1/4	56	71	89	107	123	
	2-1/2	57	72	90	108	124	
	2-3/4	58	73	91	109	125	
	3	59	74	92	110	126	
	3-1/4	60	75	93	111	127	
	3-1/2	61	76	94	112	128	
	4		77	95	113	129	
	4-1/2		78		114	130	
	5		79		115	131	
	5-1/2				116	132	
	6				117	133	

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

INACTIVE FOR DESIGN SEE SHEET 3

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.

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

P.A. WC	TITLE	MILITARY STANDARD
Other Cust SHIPS ASD	SCREW, CAP, SOCKET HEAD - HEXAGON, ALLOY STEEL, CADMIUM OR ZINC, UNC-3A	MS 35457
PROCUREMENT SPECIFICATION FF-S-86	SUPERSEDES https://assist.dla.mil -- Downloaded: 2019-05-24T20:03Z Check the source to verify that this is the current version before use.	SHEET 2 OF

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

				FED. SUP CLASS 5305	
NOMINAL SIZE		3/4	7/8	1	
B THREADS PER FNCH		10 UNC-3A	9 UNC-3A	8 UNC-3A	
D BODY DIAMETER	MAX	.7500	.8750	1.0000	
	MIN	.7436	.8680	.9924	
A HEAD DIAMETER	MAX	1	1-1/8	1-5/16	
	MIN	.987	1.111	1.297	
H HEAD HEIGHT	MAX	3/4	7/8	1	
	MIN	.741	.865	.989	
J SOCKET SIZE	NOM	9/16	9/16	5/8	
R RADIUS	MAX	.040	.040	.040	
	MIN	.030	.030	.030	
L LENGTH	DASH NO.		DASH NO.		DASH NO.
1-1/4	134				
1-1/2	135				
1-3/4	136				
2	137	149		161	
2-1/4	138		150		162
2-1/2	139		151		163
2-3/4	140		152		164
3	141		153		165
3-1/4	142		154		166
3-1/2	143		155		167
4	144		156		168
4-1/2	145		157		169
5	146		158		170
5-1/2	147		159		171
6	148		160		172

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

INACTIVE FOR DESIGN after 21 SEP 1964 Use MS16997 for Design and Engineering.
 For maintenance of existing equipment use MS35457 to replace the 5/16, 7/16, 5/8, 3/4, 7/8 and 1 inch sizes. These sizes cannot be replaced by those appearing on MS16997 in counterbored holes or other close applications.

APPROVED 29 AUG 1955 REVISED 5 APRIL 62 FOR CHANGES SEE SHEET 1

P.A. WC Other Cust SHIPS ASD	TITLE SCREW, CAP, SOCKET HEAD-HEXAGON, ALLOY STEEL, CADMIUM OR ZINC, UNC-3A	MILITARY STANDARD MS 35457
PROCUREMENT SPECIFICATION FF-S-86	Check the source to verify that this is the current version before use.	SHEET 3 OF

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.