

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDS SPECIFIED IN THE SOLICITATION MIL-S-21472

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

Form Approved  
GSA No. 0704-0188

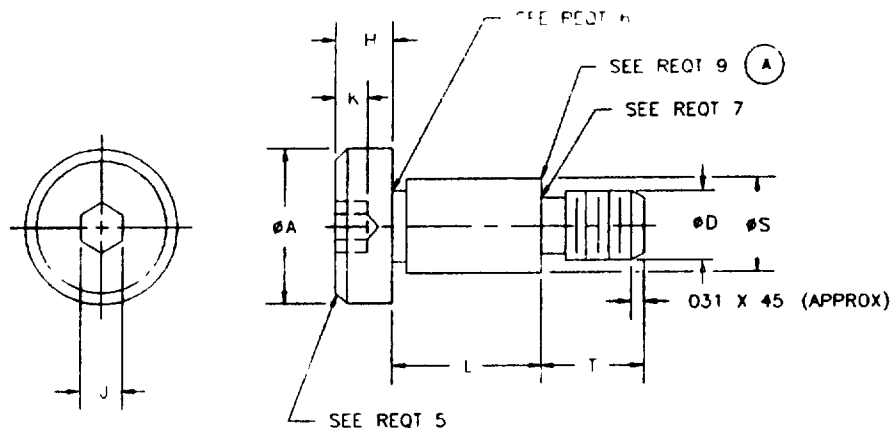


TABLE 1 DASH NUMBERS AND DIMENSIONS.

NOMINAL SIZE		125	1875	250	3125	375	500
#S SHOULDER	MAX	1245	1870	2495	3120	3745	4995
	MIN	1235	1860	2485	3110	3735	4985
#D NOMINAL THREAD SIZE		112 40UNC-2A	164 32UNC-2A	190 32UNF-2A	250 20UNC-2A	312 18UNC-2A	375 16UNC-2A
#A HEAD	MAX	2812	3437	4062	5312	5937	7812
	MIN	2188	2813	3438	4688	5313	7188
H HEAD HEIGHT	MAX	1562	1874	2187	2499	2812	3437
	MIN	0938	1250	1563	1875	2188	2813
T THREAD LENGTH	MAX	1874	2187	2812	4687	5312	6562
	MIN	1250	1563	2188	4063	4688	5938
J SOCKET WIDTH ACROSS FLATS		0780	0940	1250	1560	1880	2500
K KEY ENGAGEMENT		0630	0780	0940	1170	1410	1880
L SHOULDER LENGTH ± .003		DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER	DASH NUMBER
125		1	6				
188		2	7	16			
250		3	8	17			
313		4	9	18			
375		5	10	19			
500			11	20	26		
625			12	21	27	32	37
750			13	22	28	33	38
1 000			14	23	29	34	39
1 250			15	24	30	35	40
1 500				25	31	36	41

(A) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY- AR NAVY- OS AIR FORCE- 99 DLA- REVIEW AT, MC, MS, 82 PROJECT NUMBER 5305-2038 DISTRIBUTION STATEMENT	MILITARY SPECIFICATION SHEET TITLE SCREW, SHOULDER, SOCKET-HEAD, HEXAGON, CORROSION- RESISTANT STEEL	SPECIFICATION SHEET NUMBER <b>MS51576</b> 30 DEC 94 REV A SUPERSEDING MS51576 9 DEC 88 AMSC- N/A FSC 5305
A Approved for public release distribution is unlimited		Page 1 of 2

DD Form 672, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THE PRESENT SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE CROSS REFERENCE LIST THE SOLICITATION MIL-S-21472

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#### REQUIREMENTS

- (A) 1. MATERIAL STEEL CORROSION-RESISTANT UNS S30300 (TYPE 303) CONDITION A IN ACCORDANCE WITH ASTM A582/S82M OR UNS S30400 (TYPE 304) OR UNS S30430 (FORMERLY TYPE 316) IN ACCORDANCE WITH ASTM A493
- (A) 2. PASSIVATION GRADE S30300 STEEL SHALL BE PASSIVATED IN ACCORDANCE WITH QQ-P-35 TYPE II GRADES S30400 AND S30430 STEEL SHALL BE PASSIVATED IN ACCORDANCE WITH QQ-P-35 TYPE VI OR VII
- (A) 3. MAGNETIC PERMEABILITY THE SCREWS SHALL HAVE A MAGNETIC PERMEABILITY OF 2.0 MAXIMUM (AIR = 1.0) IN A FIELD STRENGTH OF  $H = 200$  OERSTEDS USING A MAGNETIC INDICATOR IN ACCORDANCE WITH ASTM A342 TEST METHOD NO. 6
4. THREADS THREADS SHALL BE IN A FINISHABLE CONDITION. THE DEPTH OF THE THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H2B, 20 SYSTEM 21
5. HEAD CHAMFER THE CHAMFER SHALL BE AT AN ANGLE OF 30° TO 45° WITH THE PLANE OF THE TOP OF THE HEAD. THE EDGE BETWEEN THE TOP OF THE HEAD AND THE CHAMFER MAY BE SLIGHTLY ROUNDED
6. NECK AND FILLET UNDER HEAD SCREWS MAY BE NECKED UNDER THE HEAD AT OPTION OF THE MANUFACTURER
7. NECK UNDER SHOULDER THE NECK UNDER THE SHOULDER SHALL BE WITH THE SHOULDER TO SEAT AGAINST THE FACE OF A STANDARD BASIC "GO" THREAD RING GAGE
8. BEARING SURFACE THE PLANE OF THE BEARING SURFACE OF THE HEAD SHALL BE PERPENDICULAR TO THE AXIS OF THE SHOULDER WITHIN A MAXIMUM DEVIATION OF 2°
9. EDGE OF SHOULDER THE EDGE OF THE SHOULDER MAY BE BROKE. THE RADIUS OR CHAMFER SHALL NOT EXCEED .005 INCH FOR SHOULDERS WITH NOMINAL DIAMETERS OF .375 INCH AND UNDER. THE RADIUS OR CHAMFER SHALL NOT EXCEED .008 INCH FOR SHOULDERS WITH NOMINAL DIAMETERS OVER .375 INCH
10. CONCENTRICITY CONCENTRICITY SHALL BE IN ACCORDANCE WITH ANSI B18.3
11. PART NUMBER THE PART NUMBER SHALL CONSIST OF THE BASIC NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1

EXAMPLE MS51576-24

DASH NUMBER

BASIC MS NUMBER

- (A) MS51576-24 INDICATES - SCREW SHOULDER SOCKET-HEAD HEXAGON CORROSION-RESISTANT STEEL .2500 INCH NOMINAL SIZE 1.25 INCH NOMINAL SHOULDER LENGTH 190-32 UNF-2A NOMINAL THREAD SIZE

#### NOTES

1. DIMENSIONS ARE IN INCHES
- (A) 2. INTERPRET DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ANSI Z39.1-1987
- (A) 3. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS DOCUMENT AND THE REFERENCES CITED HEREIN THE TEXT OF THIS DOCUMENT SHALL TAKE PRECEDENCE
- (A) 4. UNLESS OTHERWISE SPECIFIED ISSUES OF REFERENCED DOCUMENTS ARE THOSE IN EFFECT AT THE TIME OF SOLICITATION

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY- AR NAVY- OS AIR FORCE- 99 DLA- REVIEW AT, MC, ME, NS, 82 PROJECT NUMBER 5305-2038	MILITARY SPECIFICATION SHEET TITLE SCREW SHOULDER SOCKET-HEAD HEXAGON, CORROSION- RESISTANT STEEL	SPECIFICATION SHEET NUMBER MS51576 30 DEC 94 REV A SUPERSEDING MS51576 9 DEC 88 AMSC- N/A FSC 5305
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