

FED. SUPPLY CLASS

5305

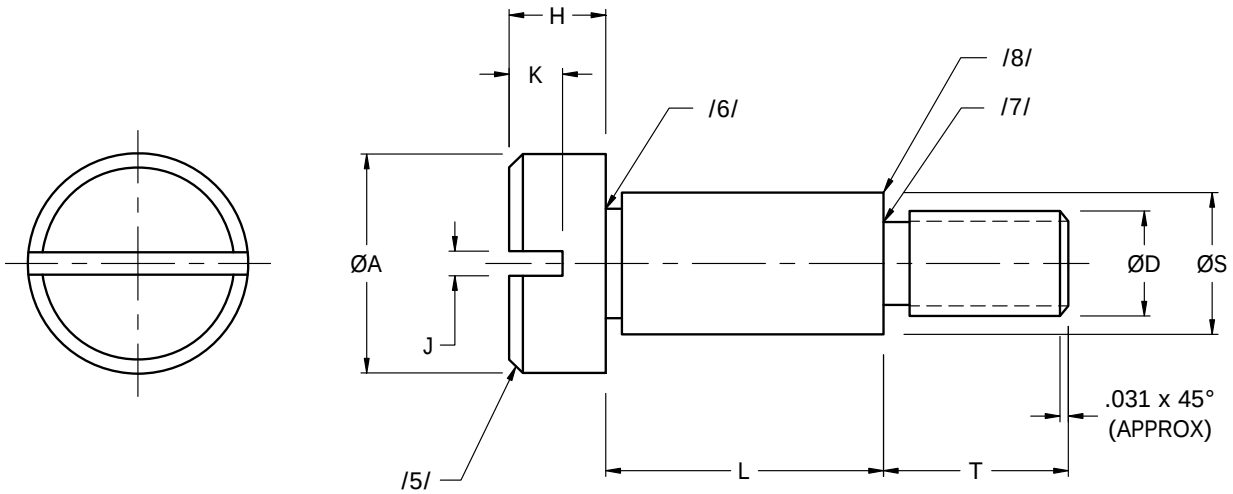


TABLE I – DIMENSIONS

NOMINAL SIZE	ØS SHOULDER		ØD NOMINAL THREAD SIZE	ØA HEAD		H HEAD HEIGHT		T THREAD LENGTH		J SLOT WIDTH		K SLOT DEPTH	
	MAX	MIN		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
.1250	.1245	.1235	.1120-40 UNC-2A	.2812	.2188	.1562	.0938	.1874	.1250	.039	.031	.048	.035
.1875	.1870	.1860	.1640-32 UNC-2A	.3437	.2813	.1874	.1250	.2187	.1563	.054	.045	.071	.054
.2500	.2495	.2485	.1900-32 UNF-2A	.4062	.3438	.2187	.1563	.2812	.2188	.075	.064	.083	.064
.3125	.3120	.3110	.2500-20 UNC-2A	.5312	.4688	.2499	.1875	.4687	.4063	.084	.072	.094	.081
.5000	.4995	.4985	.3750-16 UNC-2A	.7812	.7188	.3437	.2813	.6562	.5938	.106	.091	.164	.133

MATERIAL:

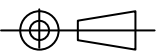
CRES, 303, CONDITION A (UNS S30300) PER ASTM A582/A582M, OR
304 (UNS S30400) OR UNS S30430 (FORMERLY TYPE XM-7) PER ASTM A493. (2)

FINISH:

GRADES S30300, S30400 AND S30430 STEEL SHALL BE PASSIVATED IN ACCORDANCE WITH AMS2700,
METHOD 1, CLASS 4.

THE INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS51575, REVISION A. PART NUMBERS REMAIN MS51575.

THIRD
ANGLE
PROJECTION



CUSTODIAN
NATIONAL AEROSPACE STANDARDS COMMITTEE

REVISION
2

PROCUREMENT
SPECIFICATION

NASM21472

TITLE
SCREW, SHOULDER, SLOTTED-HEAD, CRES

CLASSIFICATION
PART STANDARD

NASM51575
SHEET 1 OF 3



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CODE:

THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER, FOLLOWED BY A DASH NUMBER FROM TABLE II.

EXAMPLE OF PART NUMBER:

MS51575 - 24 = SCREW, SHOULDER, SLOTTED-HEAD, CRES, .2500 INCH NOMINAL SIZE, 1.000
NOMINAL SHOULDER LENGTH, .1900-32 UNF-2A NOMINAL THREAD SIZE.

└── DASH NUMBER (2)

└── BASIC MS NUMBER

NOTES:

- (1) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (2) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- (3) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (2) (4) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- /5/ THE HEAD 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 THE OPTION OF THE MANUFACTURER.
- /7/ NECK UNDER SHOULDER: THE NECK UNDER THE SHOULDER SHALL ALLOW THE SHOULDER TO SEAT AGAINST THE FACE OF A STANDARD BASIC "GO" THREAD RING GAGE.
- /8/ EDGE OF SHOULDER: THE EDGE OF THE SHOULDER MAY BE BROKEN. THE RADIUS OR CHAMFER SHALL NOT EXCEED .005 FOR SHOULDERS WITH NOMINAL DIAMETERS OF .3125 AND UNDER. THE RADIUS OR CHAMFER SHALL NOT EXCEED .008 FOR SHOULDERS WITH NOMINAL DIAMETERS OF .5000 AND OVER.
- (9) THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/2. ACCEPTABILITY OF SCREW THREADS SHALL BE IN ACCORDANCE WITH FED-STD-H28/20, SYSTEM 21.
- (10) 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°.
- (11) MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A342/A342M, TEST METHOD 3.
- (12) CONCENTRICITY SHALL BE IN ACCORDANCE WITH ASME B18.3.
- (13) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

REVISION

2

NASM51575

SHEET 2



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