

FED. SUPPLY CLASS

5305

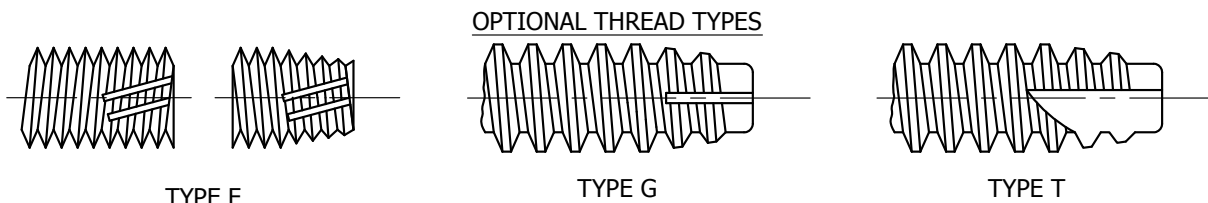
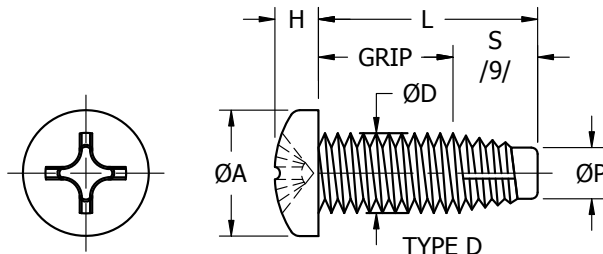


TABLE I – DIMENSIONS

NOMINAL SIZE	THREADS PER INCH	ØD MAJOR		ØA HEAD		H HEAD HEIGHT		ØP POINT	
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
#2 (.0860)	56	.0860	.0820	.167	.155	.062	.053	.067	.061
#4 (.1120)	40	.1120	.1072	.219	.205	.080	.070	.086	.077
#6 (.1380)	32	.1380	.1326	.270	.256	.097	.087	.106	.095
#8 (.1640)	32	.1640	.1586	.322	.306	.115	.105	.132	.121
#10 (.1900)	24	.1900	.1834	.373	.357	.133	.122	.147	.133
#10 (.1900)	32	.1900	.1846	.373	.357	.133	.122	.158	.147
1/4 (.2500)	20	.2500	.2428	.492	.473	.175	.162	.198	.181
1/4 (.2500)	28	.2500	.2438	.492	.473	.175	.162	.213	.201

MATERIAL:

STEEL, CARBON, IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.

HEAT TREATMENT:

CASE HARDENED OR HEAT TREATMENT TO MEET PERFORMANCE REQUIREMENTS OF PROCUREMENT SPECIFICATION.

FINISH:

CADMIUM PLATED IN ACCORDANCE WITH AMS-QQ-P-416, TYPE II, CLASS 3.

CODE:

THE PART NUMBER CONSISTS OF THE MS PART NUMBER PLUS THE DASH NUMBER FROM TABLE II.

① COMPLETELY REVISED

INITIAL RELEASE OF THIS DOCUMENT SUPERSEDES MS24629, REVISION C. PART NUMBERS REMAIN MS24629.



THIRD
ANGLE
PROJECTION

PROCUREMENT
SPECIFICATION

FF-S-107

CUSTODIAN

NATIONAL AEROSPACE STANDARDS COMMITTEE

TITLE

①

**SCREW, TAPPING, THREAD CUTTING,
TYPES D, F, G, OR T, PAN HEAD, CRUCIFORM RECESSED,
CARBON STEEL, CADMIUM PLATED**

REVISION

1

CLASSIFICATION
PART STANDARD

MS24629

SHEET 1 OF 3

EXAMPLE OF PART NUMBER:

MS24629-1

NOTES:

- (1) TYPE DESIGNATIONS ARE ESTABLISHED BY THE PROCUREMENT SPECIFICATION.
- (2) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (3) 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.
- (4) FOR AERONAUTICAL APPLICATIONS, THESE SCREWS ARE SUBJECT TO NASM33749 LIMITATION AND INSTALLATION REQUIREMENTS.
- (5) THREAD TYPES TO BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF PROCUREMENT SPECIFICATION.
- (6) THE RECESS SHALL BE IN ACCORDANCE WITH NASM9006.
- (7) FOR APPROXIMATE HOLE SIZE SEE NASM24634. FOR .2500-28 SEE ASME B18.6.4.
- (8) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- /9/ (TAPER LENGTH): 2-1/2 TO 3-1/2 TIMES THE PITCH DISTANCE FOR SCREWS HAVING A THREAD LENGTH OF 8 PITCHES OR LESS. TAPER LENGTH FOR LONGER LENGTHS WILL BE 3-1/2 TO 4-1/2 TIMES THE PITCH DISTANCE.
- (10) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (11) DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.

TABLE II – DASH NUMBERS

NOMINAL SIZE		#2 (.0860)		#4 (.1120)		#6 (.1380)		#8 (.1640)		#10 (.1900)		#10 (.1900)		1/4		1/4	
THREADS PER INCH		56		40		32		32		24		32		20		28	
L LENGTH	TOLERANCE	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN	DASH NO.	GRIP MIN
1/8	+.000 -.031	1	.031	9	—	—	—	—	—	—	—	—	—	—	—	—	—
3/16		2	.076	—	.069	20	.047	—	—	—	—	—	—	—	—	—	—
1/4		3	.138	10	.106	21	.109	33	.110	—	—	—	—	—	—	—	—
5/16		4	.201	11	.169	22	.141	34	.141	44	.135	64	.135	—	—	—	—
3/8		5	.263	12	.231	23	.203	35	.203	45	.156	65	.156	56	.169	—	—
1/2	+.000 -.047	6	.388	13	.356	24	.328	36	.328	46	.281	66	.281	57	.244	73	.244
5/8		7	.513	14	.481	25	.453	37	.453	47	.406	67	.406	58	.369	74	.369
3/4		—	—	15	.606	26	.578	38	.578	48	.531	68	.531	59	.494	75	.494
7/8		—	—	16	.716	27	.688	39	.688	49	.641	69	.641	60	.603	76	.603
1		—	—	17	.841	28	.813	40	.813	50	.766	70	.766	61	.728	77	.728
1-1/4	+.000 -.047	—	—	—	—	—	—	41	1.063	51	1.016	71	1.016	62	.978	78	.978
1-1/2		—	—	—	—	30	1.313	—	—	52	1.266	72	1.266	63	1.228	79	1.228

REVISION

1

NASM24629

SHEET 2

Document Sharing Hub



① COMPLETELY REVISED