

REV.
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MA4189™

RATIONALE

FEDERAL SUPPLY CLASS
5306

FIGURE REDRAWN, USAGE NOTE ADDED, SPECS UPDATED.

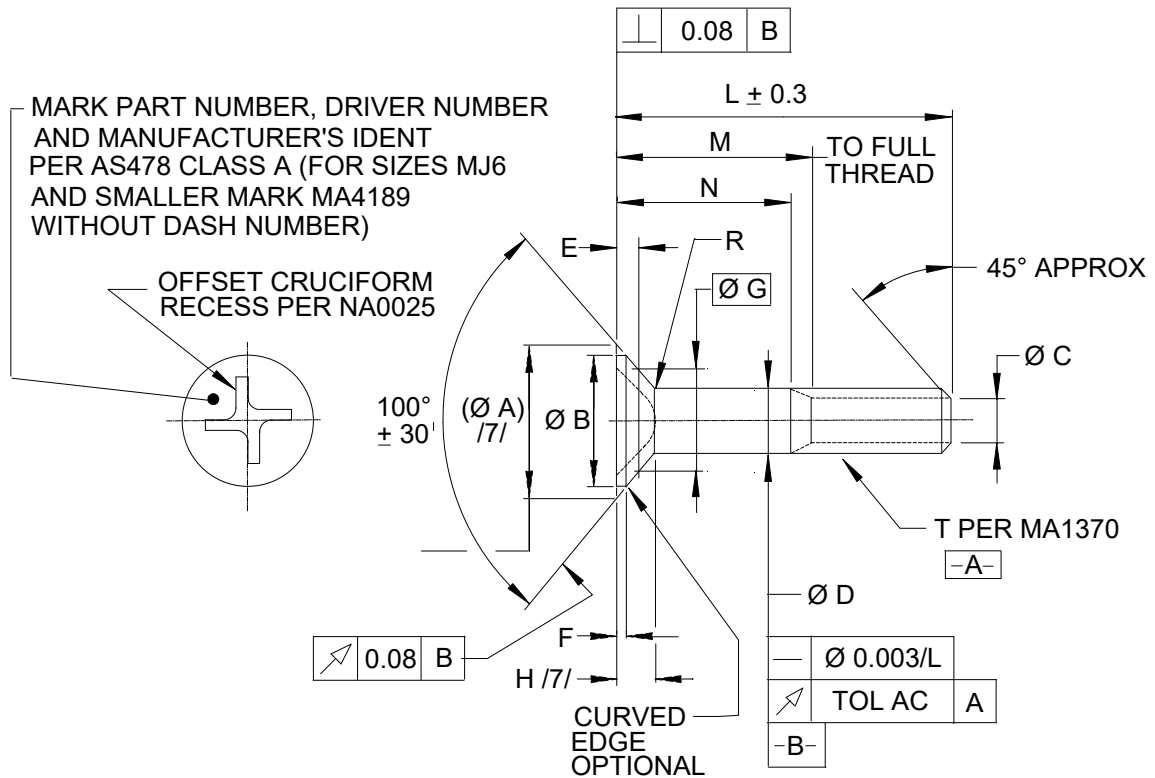
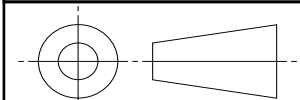


FIGURE 1

For more information on this standard, visit
<https://www.sae.org/standards/content/MA4189A/>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: MA3374



METRIC AEROSPACE STANDARD

SCREW, MACHINE, 100° CSK, FLAT HEAD,
OFFSET CRUCIFORM RECESS, FULL SHANK,
UNS S66286, MJ THREAD, METRIC

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TABLE 1

PART NUMBER SEE NOTE 9	NOM DIA	THREAD T	ϕC	ϕD h12	H (REF)	E	R RAD	ϕA MAX (REF)	ϕB MIN	ϕG /1/	F MIN
MA4189-030XXX	3	MJ3x0.5 -4h6h	1.8 - 2.3	2.90 - 3.00	1.3	0.55 - 0.63	0.2 - 0.4	6.0	5.4	4.50	0.06
MA4189-040XXX	4	MJ4x0.7 -4h6h	2.6 - 3.1	3.88 - 4.00	1.7	0.93 - 1.01	0.2 - 0.4	8.0	7.2	5.78	0.08
MA4189-050XXX	5	MJ5x0.8 -4h6h	3.0 - 4.0	4.88 - 5.00	2.1	0.96 - 1.04	0.3 - 0.5	10.0	9.0	7.71	0.10
MA4189-060XXX	6	MJ6x1 -4h6h	3.7 - 4.7	5.88 - 6.00	2.5	1.26 - 1.34	0.5 - 0.7	12.0	10.8	9.00	0.10
MA4189-070XXX	7	MJ7x1 -4h6h	4.7 - 5.7	6.85 - 7.00	3.0	1.57 - 1.65	0.5 - 0.7	14.0	12.8	10.28	0.10
MA4189-080XXX	8	MJ8x1 -4h6h	5.7 - 6.7	7.85 - 8.00	3.4	1.60 - 1.68	0.5 - 0.7	16.0	14.8	12.21	0.10
MA4189-100XXX	10	MJ10x1.25-4h6h	7.4 - 8.4	9.85 - 10.00	4.2	1.93 - 2.01	0.6 - 0.8	20.0	18.8	15.43	0.10
MA4189-120XXX	12	MJ12x1.25-4h6h	9.4 - 10.4	11.82 - 12.00	5.0	2.53 - 2.61	0.6 - 0.8	24.0	22.8	18.00	0.10
MA4189-140XXX	14	MJ14x1.5 -4h6h	11.1 - 12.1	13.82 - 14.00	5.9	3.14 - 3.24	0.8 - 1.1	28.0	26.8	20.57	0.10
MA4189-160XXX	16	MJ16x1.5 -4h6h	13.1 - 14.1	15.82 - 16.00	6.7	3.20 - 3.28	0.8 - 1.1	32.0	30.8	24.43	0.10
MA4189-180XXX	18	MJ18x1.5 -4h6h	15.1 - 16.1	17.82 - 18.00	7.6	4.35 - 4.43	1.0 - 1.3	36.0	34.8	25.71	0.10
MA4189-200XXX	20	MJ20x1.5 -4h6h	17.1 - 18.1	19.79 - 20.00	8.4	4.68 - 4.75	1.0 - 1.3	40.0	38.8	28.92	0.10

/1/ PROTRUSION GAGE ID SHALL BE EQUAL TO ϕG - .005



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TABLE 2

SIZE	L LENGTH	DASH NO. SEE NOTE 9	M MAX	N MIN	APPROX MASS kg/100
MJ3 x 0.5 - 4h6h	15.7-16.3	030016	4.0	1.5	0.181
	17.7-18.3	030018	6.0	3.5	0.190
	19.7-20.3	030020	8.0	5.5	0.199
	21.7-22.3	030022	10.0	7.5	0.208
	23.7-24.3	030024	12.0	9.5	0.216
	25.7-26.3	030026	14.0	11.5	0.225
	27.7-28.3	030028	16.0	13.5	0.234
	29.7-30.3	030030	18.0	15.5	0.243
	31.7-32.3	030032	20.0	17.5	0.252
	33.7-34.3	030034	22.0	19.5	0.260
	35.7-36.3	030036	24.0	21.5	0.269
	37.7-38.3	030038	26.0	23.5	0.278
	39.7-40.3	030040	28.0	25.5	0.287
	41.7-42.3	030042	30.0	27.5	0.295
	43.7-44.3	--	--	--	--
	45.7-46.3	--	--	--	--
	47.7-48.3	--	--	--	--
	49.7-50.3	--	--	--	--
	51.7-52.3	--	--	--	--
	53.7-54.3	--	--	--	--
	55.7-56.3	--	--	--	--


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TABLE 2 (CONTINUED)

SIZE	L LENGTH	DASH NO. SEE NOTE 9	M MAX	N MIN	APPROX MASS kg/100
MJ4 x 0.7 - 4h6h	15.7-16.3	--	--	--	--
	17.7-18.3	--	--	--	--
	19.7-20.3	040020	6.0	3.1	0.322
	21.7-22.3	040022	8.0	5.1	0.338
	23.7-24.3	040024	10.0	7.1	0.353
	25.7-26.3	040026	12.0	9.1	0.369
	27.7-28.3	040028	14.0	11.1	0.384
	29.7-30.3	040030	16.0	13.1	0.400
	31.7-32.3	040032	18.0	15.1	0.415
	33.7-34.3	040034	20.0	17.1	0.431
	35.7-36.3	040036	22.0	19.1	0.446
	37.7-38.3	040038	24.0	21.1	0.462
	39.7-40.3	040040	26.0	23.1	0.477
	41.7-42.3	040042	28.0	25.1	0.493
	43.7-44.3	040044	30.0	27.1	0.508
	45.7-46.3	040046	32.0	29.1	0.523
	47.7-48.3	040048	34.0	31.1	0.539
	49.7-50.3	040050	36.0	33.1	0.554
	51.7-52.3	040052	38.0	35.1	0.570
	53.7-54.3	040054	40.0	37.1	0.585
	55.7-56.3	040056	42.0	39.1	0.601



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SIZE	L LENGTH	DASH NO. SEE NOTE 9	M MAX	N MIN	APPROX MASS kg/100
MJ5 x 0.8 - 4h6h	21.7-22.3	050022	6.0	2.9	0.434
	23.7-24.3	050024	8.0	4.9	0.459
	25.7-26.3	050026	10.0	6.9	0.484
	27.7-28.3	050028	12.0	8.9	0.508
	29.7-30.3	050030	14.0	10.9	0.533
	31.7-32.3	050032	16.0	12.9	0.558
	33.7-34.3	050034	18.0	14.9	0.582
	35.7-36.3	050036	20.0	16.9	0.607
	37.7-38.3	050038	22.0	18.9	0.632
	39.7-40.3	050040	24.0	20.9	0.656
	41.7-42.3	050042	26.0	22.9	0.681
	43.7-44.3	050044	28.0	24.9	0.706
	45.7-46.3	050046	30.0	26.9	0.731
	47.7-48.3	050048	32.0	28.9	0.755
	49.7-50.3	050050	34.0	30.9	0.780
	51.7-52.3	050052	36.0	32.9	0.805
	53.7-54.3	050054	38.0	34.9	0.829
	55.7-56.3	050056	40.0	36.9	0.854
	57.7-58.3	050058	42.0	38.9	0.879
	59.7-60.3	050060	44.0	40.9	0.904
	63.7-64.3	050064	48.0	44.9	0.953
	67.7-68.3	050068	52.0	48.9	1.002
	71.7-72.3	--	--	--	--
	75.7-76.3	--	--	--	--
	79.7-80.3	--	--	--	--
	83.7-84.3	--	--	--	--



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