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SAE MA4045

FEDERAL SUPPLY CLASS
5310

RATIONALE

MA4045 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

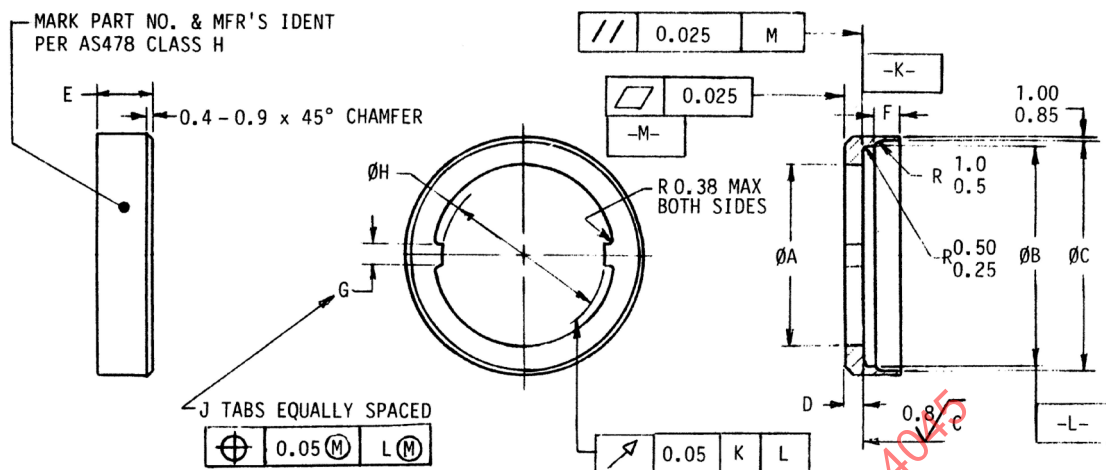
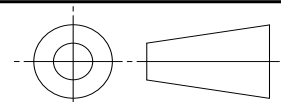


TABLE I. DIMENSIONS

PART NO.	A	B	C	D	E
MA4045-10	10.08 - 10.33	15.70 - 15.83	16.00 - 16.30	2.90 - 3.25	10.6 - 10.9
MA4045-12	12.08 - 12.33	19.70 - 19.83	20.25 - 20.55	2.90 - 3.25	10.6 - 10.9
MA4045-14	14.08 - 14.33	21.70 - 21.83	22.25 - 22.55	2.90 - 3.25	10.6 - 10.9
MA4045-15	15.08 - 15.33	22.70 - 22.83	23.25 - 23.55	2.90 - 3.25	10.6 - 10.9
MA4045-16	16.08 - 16.33	23.70 - 23.83	24.25 - 24.55	2.90 - 3.25	10.6 - 10.9
MA4045-17	17.08 - 17.33	24.70 - 24.83	25.25 - 25.55	2.90 - 3.25	10.6 - 10.9
MA4045-18	18.08 - 18.33	25.70 - 25.83	26.25 - 26.55	2.90 - 3.25	10.6 - 10.9
MA4045-20	20.08 - 20.33	28.20 - 28.33	28.75 - 29.05	2.90 - 3.25	10.6 - 10.9
MA4045-22	22.08 - 22.33	30.20 - 30.33	30.75 - 31.05	2.90 - 3.25	10.6 - 10.9
MA4045-24	24.08 - 24.33	32.70 - 32.83	33.25 - 33.55	2.90 - 3.25	10.6 - 10.9
MA4045-25	25.08 - 25.33	33.90 - 34.03	34.45 - 34.75	2.90 - 3.25	10.6 - 10.9
MA4045-27	27.08 - 27.33	35.90 - 36.03	36.45 - 36.75	3.55 - 3.90	11.9 - 12.2
MA4045-28	28.08 - 28.33	36.90 - 37.03	37.45 - 37.75	3.55 - 3.90	11.9 - 12.2
MA4045-30	30.08 - 30.33	39.20 - 39.33	39.75 - 40.05	3.55 - 3.90	11.9 - 12.2
MA4045-32	32.08 - 32.33	41.50 - 41.63	42.05 - 42.35	3.55 - 3.90	11.9 - 12.2
MA4045-33	33.08 - 33.33	42.50 - 42.63	43.05 - 43.35	3.55 - 3.90	11.9 - 12.2
MA4045-35	35.08 - 35.33	44.50 - 44.63	45.05 - 45.35	3.55 - 3.90	11.9 - 12.2
MA4045-36	36.08 - 36.33	45.90 - 46.03	46.45 - 46.75	3.55 - 3.90	11.9 - 12.2
MA4045-39	39.08 - 39.33	49.20 - 49.33	49.75 - 50.05	3.55 - 3.90	11.9 - 12.2
MA4045-40	40.08 - 40.33	50.20 - 50.33	50.75 - 51.05	3.55 - 3.90	11.9 - 12.2
MA4045-42	42.08 - 42.33	52.20 - 52.33	52.75 - 53.05	3.55 - 3.90	11.9 - 12.2
MA4045-45	45.08 - 45.33	55.50 - 55.63	56.05 - 56.35	3.55 - 3.90	11.9 - 12.2
MA4045-48	48.08 - 48.33	58.70 - 58.83	59.25 - 59.55	3.55 - 3.90	11.9 - 12.2
MA4045-50	50.08 - 50.33	60.70 - 60.83	61.25 - 61.55	3.55 - 3.90	11.9 - 12.2
MA4045-52	52.08 - 52.33	62.70 - 62.83	63.25 - 63.55	3.55 - 3.90	13.2 - 13.5
MA4045-55	55.08 - 55.33	66.40 - 66.53	66.95 - 67.25	3.55 - 3.90	13.2 - 13.5
MA4045-56	56.08 - 56.33	67.40 - 67.53	67.95 - 68.25	3.55 - 3.90	13.2 - 13.5

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/MA4045>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

SAE Aerospace
An SAE International Group

METRIC AEROSPACE STANDARD

WASHER, CUP, LOCK - SPANNER NUT
AMS 5646, METRIC

SAE MA4045
SHEET 1 OF 3

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ISSUED 1989-05 REAFFIRMED 2012-12

TABLE I. DIMENSIONS (CONTINUED)

PART NO.	A	B	C	D	E
MA4045-58	58.08 - 58.33	69.40 - 69.53	69.95 - 70.25	3.55 - 3.90	13.2 - 13.5
MA4045-60	60.08 - 60.33	71.40 - 71.53	71.95 - 72.25	3.55 - 3.90	13.2 - 13.5
MA4045-64	64.08 - 64.33	76.00 - 76.13	76.55 - 76.85	3.55 - 3.90	13.2 - 13.5
MA4045-65	65.08 - 65.33	77.00 - 77.13	77.55 - 77.85	3.55 - 3.90	13.2 - 13.5
MA4045-68	68.08 - 68.33	80.00 - 80.13	80.55 - 80.85	3.55 - 3.90	13.2 - 13.5
MA4045-70	70.08 - 70.33	82.60 - 82.73	83.15 - 83.45	3.55 - 3.90	13.2 - 13.5
MA4045-72	72.08 - 72.33	84.60 - 84.73	85.15 - 85.45	3.55 - 3.90	13.2 - 13.5
MA4045-75	75.08 - 75.33	88.30 - 88.43	88.85 - 89.15	3.55 - 3.90	13.2 - 13.5

TABLE I. DIMENSIONS (CONTINUED)

PART NO.	F	G	H	J TABS	APPROX MASS kg/100
MA4045-10	5.1 - 5.4	2.9 - 3.1	3.82 - 3.88*	1	0.7523
MA4045-12	5.1 - 5.4	2.9 - 3.1	4.66 - 4.72*	1	1.1016
MA4045-14	5.1 - 5.4	2.9 - 3.1	11.31 - 11.44	2	1.2179
MA4045-15	5.1 - 5.4	2.9 - 3.1	12.31 - 12.44	2	1.2761
MA4045-16	5.1 - 5.4	2.9 - 3.1	13.31 - 13.44	2	1.3343
MA4045-17	5.1 - 5.4	2.9 - 3.1	14.31 - 14.44	2	1.3925
MA4045-18	5.1 - 5.4	2.9 - 3.1	15.31 - 15.44	2	1.4507
MA4045-20	5.1 - 5.4	2.9 - 3.1	17.31 - 17.44	2	1.6354
MA4045-22	5.1 - 5.4	3.7 - 3.9	18.69 - 18.82	2	1.7665
MA4045-24	5.1 - 5.4	3.7 - 3.9	20.68 - 20.81	2	1.9638
MA4045-25	5.1 - 5.4	3.7 - 3.9	21.68 - 21.81	2	2.0576
MA4045-27	5.7 - 6.0	3.7 - 3.9	23.68 - 23.81	2	2.5472
MA4045-28	5.7 - 6.0	3.7 - 3.9	24.68 - 24.81	2	2.6206
MA4045-30	5.7 - 6.0	3.7 - 3.9	26.68 - 26.81	2	2.8319
MA4045-32	5.7 - 6.0	4.4 - 4.6	28.68 - 28.81	2	3.0563
MA4045-33	5.7 - 6.0	4.4 - 4.6	29.68 - 29.81	2	3.1326
MA4045-35	5.7 - 6.0	4.4 - 4.6	31.68 - 31.81	2	3.2850
MA4045-36	5.7 - 6.0	4.4 - 4.6	32.68 - 32.81	2	3.4595
MA4045-39	5.7 - 6.0	4.4 - 4.6	35.68 - 35.81	2	3.7721
MA4045-40	5.7 - 6.0	4.4 - 4.6	36.68 - 36.81	2	3.8516
MA4045-42	5.7 - 6.0	4.4 - 4.6	38.68 - 38.81	2	4.0106
MA4045-45	5.7 - 6.0	6.1 - 6.3	41.68 - 41.81	2	4.3535
MA4045-48	5.7 - 6.0	6.1 - 6.3	44.68 - 44.81	2	4.6573
MA4045-50	5.7 - 6.0	6.1 - 6.3	46.68 - 46.81	2	4.8209
MA4045-52	7.0 - 7.3	6.1 - 6.3	48.68 - 48.81	2	5.1776
MA4045-55	7.0 - 7.3	6.1 - 6.3	51.68 - 51.81	2	5.6722
MA4045-56	7.0 - 7.3	6.1 - 6.3	52.68 - 52.81	2	5.7603
MA4045-58	7.0 - 7.3	6.1 - 6.3	54.68 - 54.81	2	5.9364
MA4045-60	7.0 - 7.3	6.1 - 6.3	56.68 - 56.81	2	6.1126
MA4045-64	7.0 - 7.3	6.1 - 6.3	60.68 - 60.81	2	6.6976
MA4045-65	7.0 - 7.3	6.1 - 6.3	61.68 - 61.81	2	6.7885
MA4045-68	7.0 - 7.3	6.1 - 6.3	64.68 - 64.81	2	7.0611
MA4045-70	7.0 - 7.3	6.1 - 6.3	66.68 - 66.81	2	7.4940
MA4045-72	7.0 - 7.3	6.1 - 6.3	68.68 - 68.81	2	7.6813
MA4045-75	7.0 - 7.3	6.1 - 6.3	71.68 - 71.81	2	8.2736

* H/2 RADIAL DIMENSION TO TAB FROM AXIS OF ØB.