

RATIONALE

MA4020 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

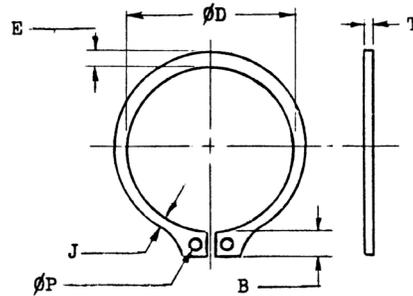
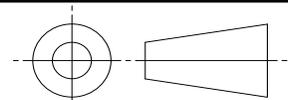


TABLE I. RING DIMENSIONS, FREE STATE

PART NO.	NOM SHAFT DIA	D	T	P		E NOM	J NOM	APPROX MASS kg/1000
				MIN	NOM			
MA4020-07	7	6.20 - 6.40	0.54 - 0.66	1.0	2.05	0.90	0.60	0.10
MA4020-08	8	7.00 - 7.20	0.54 - 0.66	1.0	2.20	1.00	0.65	0.12
MA4020-09	9	8.00 - 8.20	0.54 - 0.66	1.0	2.20	1.15	0.75	0.15
MA4020-10	10	8.85 - 9.05	0.54 - 0.66	1.0	2.20	1.30	0.80	0.19
MA4020-11	11	9.85 - 10.05	0.54 - 0.66	1.0	2.20	1.40	0.85	0.23
MA4020-12	12	10.70 - 10.90	0.54 - 0.66	1.0	2.20	1.50	0.90	0.24
MA4020-13	13	11.65 - 12.05	0.84 - 0.96	1.2	2.80	1.60	0.95	0.44
MA4020-14	14	12.65 - 13.05	0.84 - 0.96	1.2	2.80	1.70	1.00	0.49
MA4020-15	15	13.55 - 13.95	0.84 - 0.96	1.2	2.80	1.80	1.05	0.54
MA4020-16	16	14.45 - 14.85	0.84 - 0.96	1.2	2.80	2.05	1.15	0.59
MA4020-17	17	15.50 - 15.90	0.84 - 0.96	1.2	2.80	2.10	1.15	0.64
MA4020-18	18	16.40 - 16.80	1.04 - 1.16	1.3	3.45	2.25	1.25	0.92
MA4020-19	19	17.35 - 17.75	1.04 - 1.16	1.3	3.45	2.35	1.30	0.95
MA4020-20	20	18.10 - 18.50	1.04 - 1.16	1.3	3.45	2.40	1.35	1.0
MA4020-21	21	19.15 - 19.55	1.04 - 1.16	1.3	3.45	2.50	1.40	1.1
MA4020-22	22	20.05 - 20.45	1.04 - 1.16	1.3	3.45	2.70	1.50	1.3
MA4020-23	23	21.00 - 21.40	1.04 - 1.16	1.3	3.45	2.80	1.60	1.4
MA4020-24	24	21.95 - 22.35	1.04 - 1.16	1.9	4.20	2.90	1.60	1.5
MA4020-25	25	22.85 - 23.25	1.04 - 1.16	1.9	4.20	2.90	1.70	1.6
MA4020-26	26	23.80 - 24.20	1.04 - 1.16	1.9	4.20	3.00	1.70	1.8
MA4020-27	27	24.55 - 25.20	1.24 - 1.36	1.9	4.60	3.10	1.80	2.2
MA4020-28	28	25.40 - 26.05	1.24 - 1.36	1.9	4.60	3.20	1.80	2.3
MA4020-30	30	27.50 - 28.15	1.24 - 1.36	1.9	4.60	3.30	1.80	2.5
MA4020-32	32	29.20 - 29.85	1.24 - 1.36	1.9	4.60	3.60	1.90	2.8
MA4020-34	34	31.00 - 31.65	1.24 - 1.36	1.9	4.60	3.80	2.00	3.1
MA4020-35	35	31.90 - 32.55	1.24 - 1.36	1.9	4.60	3.90	2.10	3.3
MA4020-36	36	32.85 - 33.50	1.24 - 1.36	1.9	5.40	4.10	2.20	3.6

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/MA4020>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE



METRIC AEROSPACE STANDARD

RING, RETAINING - EXTERNAL,  
TAPERED, TYPE I, CLASS 2  
AMS 5520, METRIC

SAE MA4020  
SHEET 1 OF 3

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SAE MA4020

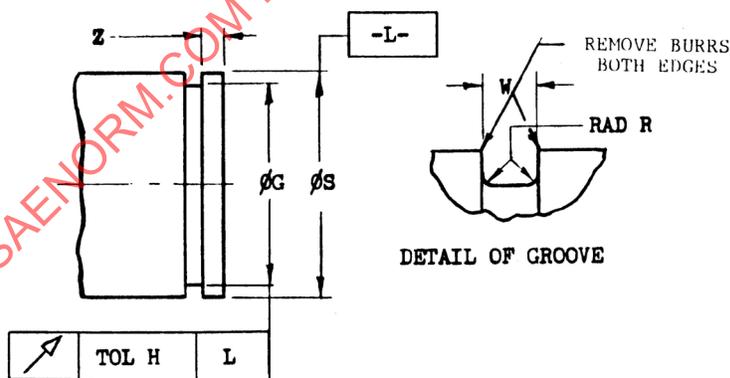
ISSUED 1987-09 REAFFIRMED 2012-12

TABLE I. RING DIMENSIONS, FREE STATE, (CONTINUED)

PART NO.	NOM SHAFT DIA	D	T	P MIN	B NOM	E NOM	J NOM	APPROX MASS kg/1000
MA4020-38	38	34.80 - 35.45	1.24 - 1.36	3.1	5.40	4.30	2.30	4.0
MA4020-40	40	36.25 - 37.10	1.52 - 1.68	3.1	6.00	4.40	2.30	5.6
MA4020-42	42	38.30 - 39.15	1.52 - 1.68	3.1	6.00	4.60	2.40	6.3
MA4020-43	43	39.15 - 40.00	1.52 - 1.68	3.1	6.00	4.70	2.50	6.7
MA4020-45	45	41.10 - 41.95	1.52 - 1.68	3.1	6.00	4.80	2.60	7.0
MA4020-46	46	42.05 - 42.90	1.52 - 1.68	3.1	6.00	4.90	2.60	7.3
MA4020-48	48	43.90 - 44.75	1.52 - 1.68	3.1	6.20	5.00	2.60	7.7
MA4020-50	50	45.70 - 46.55	1.52 - 1.68	3.1	6.20	5.10	2.70	8.2

NOTES:

1. MATERIAL: CRES, AMS 5520 (UNS S15700)
2. HEAT TREATMENT: AUSTENITE CONDITIONED & PRECIPITATION HEAT TREATED PER MTL. SPEC.
3. HARDNESS: 44 - 51 HRC OR EQUIVALENT.
4. FINISH: PASSIVATE IN ACCORDANCE WITH MA4036
5. PROCUREMENT SPECIFICATION: MA 4036.
6. SURFACE TEXTURE: REQUIREMENTS PER ANSI B46.1-1985 SURFACES TO BE 1.6 MICROMETRES, Ra MAX EXCEPT INSIDE AND OUTSIDE EDGES.
7. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982.
8. DIMENSIONS IN MILLIMETRES.
9. REMOVE BURRS AND SHARP EDGES.
10. DO NOT USE UNASSIGNED PART NUMBERS.



MA & AMS ARE SAE PUBLICATIONS.

ANSI IS AMERICAN NATIONAL STANDARDS INSTITUTE PUBLICATION.