

REV. A

MA2014

FEDERAL SUPPLY CLASS
4730

RATIONALE

MA2014A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

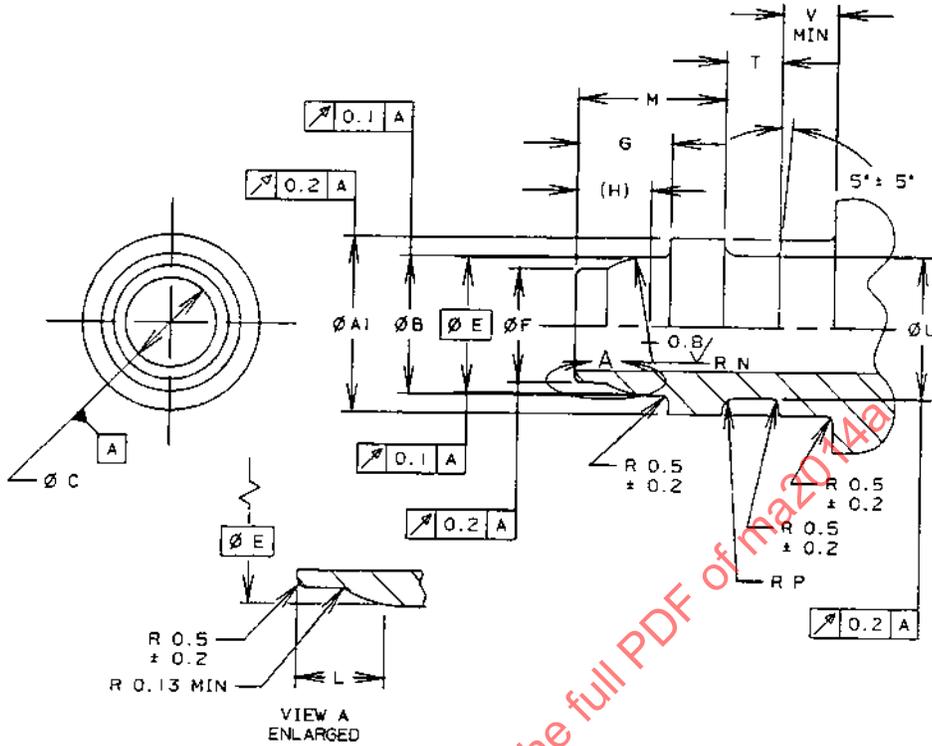


FIGURE 1 - FITTING END, STYLE A
RETAINED WIRE NUT DESIGN

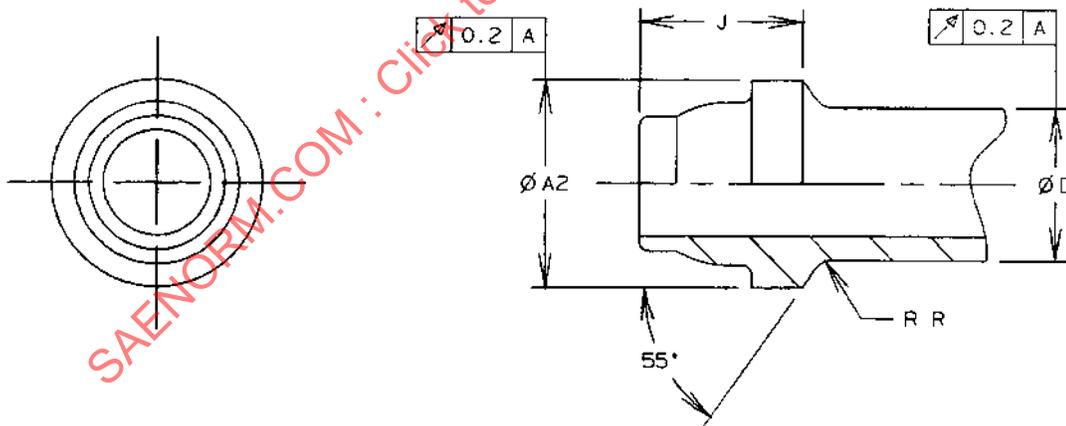
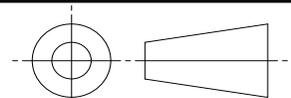


FIGURE 2 - FITTING END, STYLE B
SAME AS STYLE A,
EXCEPT AS SHOWN
SLIP ON NUT DESIGN

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA2014A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE /2/



AEROSPACE STANDARD

FITTING END, ACORN FLARELESS
DESIGN STANDARD, METRIC

MA2014
SHEET 1 OF 3

REV. A

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ISSUED 1987-02 REVISED 1996-06 REAFFIRMED 2015-04

(R) TABLE 1A - DIMENSIONS

BASIC NO. MA2014 /10/ SIZE CODE	(NOMINAL TUBE SIZE DN) /1/	A1	A2	B	C ±0.1	D	E	F	G ±0.12	H
05	5	8.90	8.95	6.70	3.5	6.10	6.50	5.00	6.20	4.891
06	6	10.70	10.70	7.70	4.5	7.10	7.50	6.00	6.70	5.391
08	8	12.40	12.45	9.70	6.3	9.10	9.50	8.00	6.70	5.291
10	10	14.40	14.45	11.70	7.1	11.10	11.50	10.00	6.70	6.291
12	12	16.40	16.45	14.00	8.6	13.10	13.50	12.00	7.70	6.737
14	14	18.40	18.45	16.00	10.1	15.20	15.50	14.00	7.70	6.737
16	16	20.30	20.45	18.00	11.8	17.40	17.50	16.00	7.70	6.737
20	20	25.30	25.40	22.00	15.1	21.60	21.50	20.00	7.70	6.737
25	25	30.00	31.40	27.10	19.5	26.60	26.60	25.00	7.70	6.737
32	32	38.00	39.90	34.20	26.1	33.65	33.70	32.00	8.20	7.137
40	40	47.00	47.90	42.20	34.1	41.65	41.70	40.00	8.20	7.137

(R) TABLE 1A (CONTINUED)

BASIC NO. MA2014 /10/ SIZE CODE	(NOMINAL TUBE SIZE DN) /1/	J ±0.06	L ±0.15	M ±0.06	N ±0.1	P ±0.1	R ±0.15	T ±0.2	U	V
05	5	8.90	3.80	8.95	6.0	1.0	1.25	4.0	6.60	3.9
06	6	9.55	4.30	9.60	6.0	1.0	1.25	4.0	8.35	3.9
08	8	9.70	4.20	9.70	6.0	1.0	1.25	4.0	10.10	3.9
10	10	9.70	4.20	9.70	6.0	1.0	1.25	4.0	12.10	4.4
12	12	10.75	4.30	11.25	12.0	1.3	1.50	5.0	13.55	4.9
14	14	10.75	4.30	11.25	12.0	1.3	1.50	5.0	15.55	4.9
16	16	10.80	4.30	11.75	12.0	1.3	1.50	5.0	17.55	5.4
20	20	10.80	4.30	12.00	12.0	1.5	2.25	6.0	21.95	5.1
25	25	11.25	4.30	12.50	12.0	1.5	2.25	6.0	27.95	6.6
32	32	11.75	4.70	14.70	12.0	1.5	2.25	6.0	36.45	6.3
40	40	12.60	4.70	15.15	12.0	1.6	2.25	7.0	43.90	6.6

NOTES:

- 1/ DN = NOMINAL TUBE OUTSIDE DIAMETER.
- 2/ THIS FITTING END IS DESIGNED FOR USE WITH FLARELESS FITTINGS PER MA2005 (ISO 7169). THIS FITTING END MATES WITH MA2095 (ISO 7321/2) FITTING END DESIGN. FITTING ENDS PER STYLE A ARE INTENDED FOR USE WITH MA2047 RETAINED NUT AND MA2117 RETAINING WIRE OR EQUIVALENT. FITTING ENDS PER STYLE B ARE INTENDED FOR USE WITH MA2040 SLIP ON NUTS OR EQUIVALENT.
3. INVENTORIED PARTS WITH FITTING ENDS CONFORMING TO THE PREVIOUS "LETTER CHANGE" OF THIS STANDARD SHALL NOT BE USED AS OF THE DATE OF THIS REVISION.
4. THE (R) IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS SPECIFICATION. IF THE SYMBOL IS NEXT TO THE SPECIFICATION TITLE, IT INDICATES A COMPLETE REVISION OF THE SPECIFICATION.
5. INTERPRETATION OF DRAWING PER MAP4296.
6. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 3.2 µm Ra.
7. BREAK EDGES 0.1 TO 0.4 UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994
9. DIMENSIONS IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±0.05, ANGULAR DIMENSIONS ±0°30'.

	AEROSPACE STANDARD	MA2014 SHEET 2 OF 3	REV. A
	FITTING END, ACORN FLARELESS DESIGN STANDARD, METRIC		