

REV.
B

MA2051

FEDERAL SUPPLY CLASS
4730

RATIONALE

MA2051B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

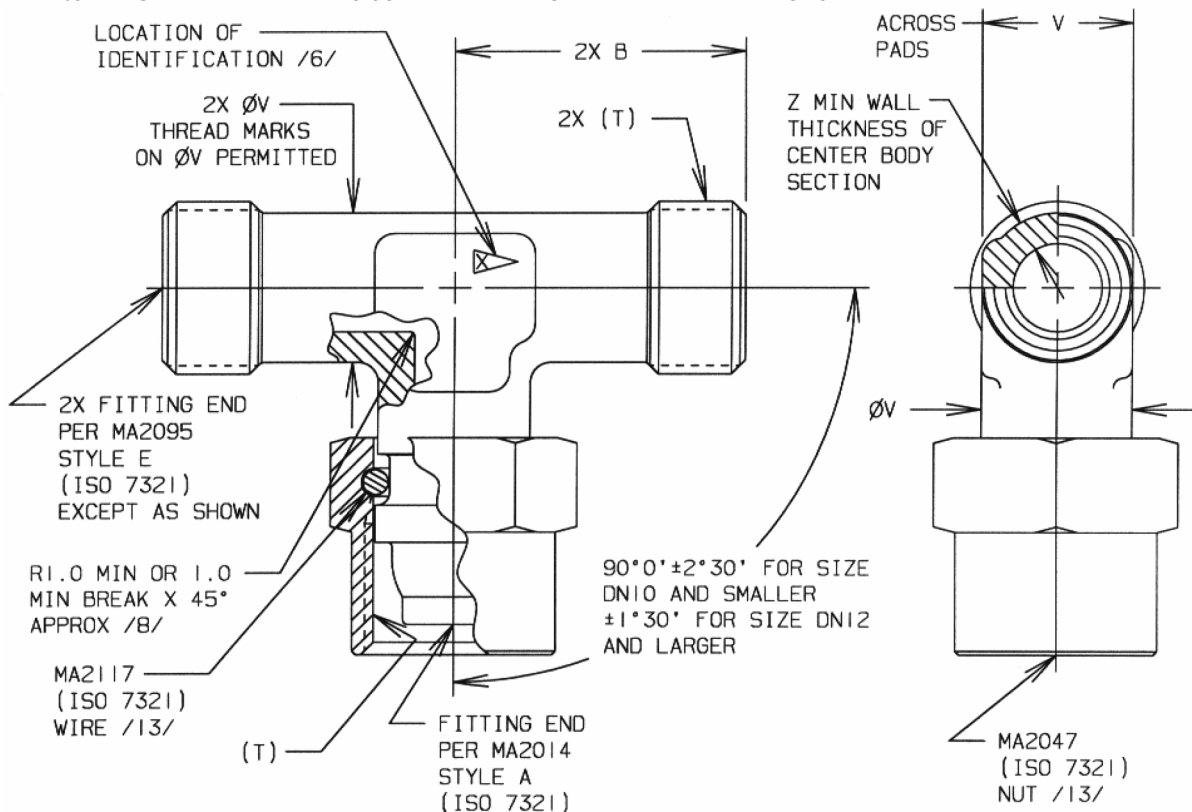


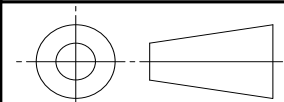
FIGURE 1 - ELBOW, 90°, FLARELESS

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. MA2051 /19/ SIZE CODE	(NOMINAL TUBE SIZE DN) /1/ /1/	T THREAD PER MA1370 (ISO 5855-3)		A	B	V	Z	Kg/100 APPROX, REF CRES	Kg/100 APPROX, REF TI
		EXT 4g6g	INT 4H5H						
05	5	MJ 10 X 1		23.5	18	7.50-8.06	1.3	2.54	1.45
06	6	MJ 12 X 1.25		25.0	20	9.50-10.06	1.8	3.90	2.21
08	8	MJ 14 X 1.5		27.0	23	11.40-12.06	1.8	5.68	3.21
10	10	MJ 16 X 1.5		29.0	25	13.40-14.06	2.0	7.52	4.24
12	12	MJ 18 X 1.5		31.5	26	15.4 -16.1	2.0	9.80	5.56
14	14	MJ 20 X 1.5		32.5	27	17.4 -18.1	2.0	11.9	6.73
16	16	MJ 22 X 1.5		34.5	28	19.4 -20.1	2.0	14.5	8.23
20	20	MJ 27 X 1.5		40.0	32	23.4 -24.1	2.5	22.8	12.9
25	25	MJ 33 X 1.5		44.0	36	29.4 -30.1	2.5	38.8	21.8
32	32	MJ 42 X 2		52.0	42	38.2 -39.2	3.5	63.5	35.6

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on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA2051B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /5/ MA2005 (ISO 7169)



AEROSPACE STANDARD

(R) FITTING ASSEMBLY, TEE, THIN
WALL, RETAINED NUT ON SIDE,
FLARELESS, METRIC

MA2051
SHEET 1 OF 3

REV.
B

Documents

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NOTES:

- /1/ DN = NOMINAL TUBE OUTSIDE DIAMETER.
- /2/ MATERIAL:
 - a. CODE LETTER J -
 - TEE - TYPE 304 CORROSION RESISTANT STEEL PER AMS 5639 OR AMS-QQ-S-763.
 - NUT - CODE LETTER J OF MA2047 REFERENCE (TYPE 304 CORROSION RESISTANT STEEL).
 - WIRE - PER MA2117 REFERENCE (TYPE 302 OR 305 CORROSION RESISTANT STEEL).
 - b. CODE LETTER K -
 - TEE - TYPE 316 CORROSION RESISTANT STEEL PER AMS 5648 OR AMS-QQ-S-763.
 - NUT - CODE LETTER K OF MA2047 REFERENCE (TYPE 316 CORROSION RESISTANT STEEL).
 - WIRE - PER MA2117 REFERENCE (TYPE 302 OR 305 CORROSION RESISTANT STEEL).
 - c. CODE LETTER R -
 - TEE - TYPE 321 CORROSION RESISTANT STEEL PER AMS 5645 OR AMS-QQ-S-763.
 - NUT - CODE LETTER R OF MA2047 REFERENCE (TYPE 321 CORROSION RESISTANT STEEL).
 - WIRE - PER MA2117 REFERENCE (TYPE 302 OR 305 CORROSION RESISTANT STEEL).
 - d. CODE LETTER T -
 - TEE - TYPE 6AL-4V TITANIUM ALLOY PER AMS 4928.
 - NUT - CODE LETTER T OF MA2047 REFERENCE (TYPE 6AL-4V TITANIUM ALLOY).
 - WIRE - PER MA2117 REFERENCE (TYPE 302 OR 305 CORROSION RESISTANT STEEL).
- 3. HEAT TREATMENT: NONE.
- 4. FINISH:
 - a. MATERIAL CODE LETTERS J, K OR R -
 - TEE - PASSIVATE PER AMS-QQ-P-35, TYPE VI OR VII.
 - NUT - MATERIAL CODE LETTERS J, K OR R OF MA2047 REFERENCE (PASSIVATE).
 - WIRE - PER MA2117 REFERENCE (PASSIVATE AND COAT WITH SOLID FILM LUBRICANT).
 - b. MATERIAL CODE LETTER T -
 - TEE - FLUORIDE PHOSPHATE CONVERSION COAT PER AMS 2486.
 - NUT - MATERIAL CODE LETTER T OF MA2047 REFERENCE (FLUORIDE PHOSPHATE CONVERSION COAT).
 - WIRE - PER MA2117 REFERENCE (PASSIVATE AND COAT WITH SOLID FILM LUBRICANT).
- /5/ PROCUREMENT SPECIFICATION: MA2005 (ISO 7169) EXCEPT AS SPECIFIED ON THIS STANDARD. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION AS APPLICABLE IN A COMPLETE ASSEMBLY. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL BY STANDARD PAGE SUPPLEMENT SHEETS OR SIMILAR MEANS.
- /6/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR METHOD 7A3, 15A3, OR 15B.
 - a. FOR SIZES DN10 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK AND MATERIAL CODE LETTER.
 - b. FOR SIZES DN12 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER.
- 7. THIS PART IS DESIGNED FOR USE IN SYSTEMS AT TYPE II TEMPERATURE (-55° TO 135°C) WITH OPERATING PRESSURE AS FOLLOWS:
 - a. SIZES DN05 THROUGH DN25 AT 28,000 kPa.
 - b. SIZE DN32 AT 14,000 kPa.
- /8/ RADIUS OR BREAK APPLICABLE FOR TITANIUM PARTS ONLY.

	AEROSPACE STANDARD		MA2051 SHEET 2 OF 2	REV. B
	(R) FITTING ASSEMBLY, TEE, THIN WALL, RETAINED NUT ON SIDE, FLARELESS, METRIC			



Documents

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