

MA2303

RATIONALE

MA2303 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

FEDERAL SUPPLY CLASS
4730

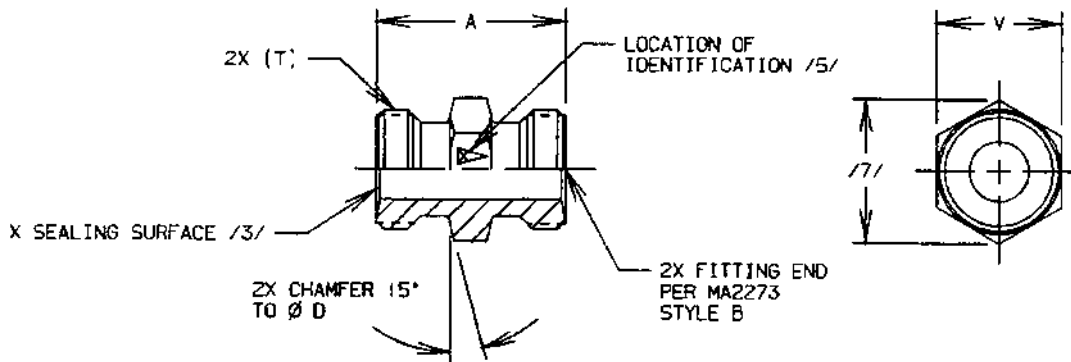


FIGURE 1 - FITTING, UNION

TABLE 1 - DIMENSIONS AND WEIGHTS

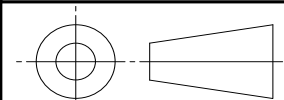
BASIC NO. MA2303 /14/ SIZE CODE	(NOMINAL TUBE SIZE DN) /1/	T PER MA1370 (ISO 5855/3)	A ±0.3	D ±0.25	V	kg/EA MAX TI
05	5	MJ 10 X 1	19.0	10.45	10.70-11.06	.00514
06	6	MJ 12 X 1.25	22.5	12.35	12.60-13.06	.00835
08	8	MJ 14 X 1.5	26.0	15.35	15.6 -16.1	.0124
10	10	MJ 16 X 1.5	27.0	16.35	16.6 -17.1	.0152
12	12	MJ 18 X 1.5	27.0	18.35	18.6 -19.1	.0179
14	14	MJ 20 X 1.5	27.0	21.35	21.6 -22.1	.0241
16	16	MJ 22 X 1.5	27.0	23.35	23.6 -24.1	.0275
18	18	MJ 24 X 1.5	27.0	26.35	26.6 -27.1	.0319
20	20	MJ 27 X 1.5	27.0	29.05	29.3 -30.1	.0381
22	22	MJ 30 X 1.5	27.0	31.05	31.3 -32.1	.0427
25	25	MJ 33 X 1.5	27.0	33.05	33.3 -34.1	.0524
28	28	MJ 36 X 1.5	27.0	40.05	40.3 -41.2	.0639
32	32	MJ 39 X 1.5	28.0	40.05	40.3 -41.2	.0700

NOTES:

- /1/ DN = NOMINAL TUBE OUTSIDE DIAMETER.
- /2/ MATERIAL:
CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4965.
- /3/ FINISH: NONE. APPLY DRY FILM LUBRICANT PER MIL-L-46010, TYPE I TO SEALING SURFACE. OVERSPRAY IN BORE IS NOT PERMITTED.
- /4/ 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(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA2303>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B /8/

PROCUREMENT SPECIFICATION: /4/ MA2005 (ISO 7169)



AEROSPACE STANDARD

FITTING, UNION,
BEAM SEAL, METRIC

MA2303
SHEET 1 OF 2

Documents

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NOTES (CONTINUED):

- /5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D OR METHOD 7A3, 15A3, OR 15B.
 - a. FOR SIZES DN10 AND SMALLER, MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, MATERIAL CODE LETTER AND PRESSURE RATING (EXAMPLE: 28K = 28,000 kPa).
 - b. FOR SIZES DN12 AND LARGER, MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER, MATERIAL CODE LETTER AND PRESSURE RATING (EXAMPLE: 28K = 28,000 kPa).
- 6. THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH OPERATING PRESSURES AS FOLLOWS:
 - a. SIZES DN05 THROUGH DN28 AT 28,000 kPa.
 - b. SIZE DN32 AT 14,000 kPa.
- /7/ THE HEX CORNERS MAY BE ROUNDED PER ARP1942.
- /8/ REVISIONS OF THIS DOCUMENT SHALL BE COORDINATED WITH SAE COMMITTEE E-25.
- 9. INTERPRETATION OF DRAWING PER MAP4296.
- 10. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 3.2 μm Ra.
- 11. BREAK EDGES 0.1 TO 0.4 UNLESS OTHERWISE SPECIFIED.
- 12. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994
- 13. DIMENSIONS IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ± 0.2 , ANGULAR DIMENSIONS $\pm 5^\circ$.
- /14/ EXAMPLE OF PART NUMBER: MA2303 T 08

BASIC PART NUMBER

SIZE CODE, TUBE SIZE
IN MILLIMETERS

MATERIAL CODE LETTER /2/

	AEROSPACE STANDARD		MA2303 SHEET 2 OF 3	
	FITTING, UNION, BEAM SEAL, METRIC			