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MA2292

FEDERAL SUPPLY CLASS
4730

RATIONALE

MA2292 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

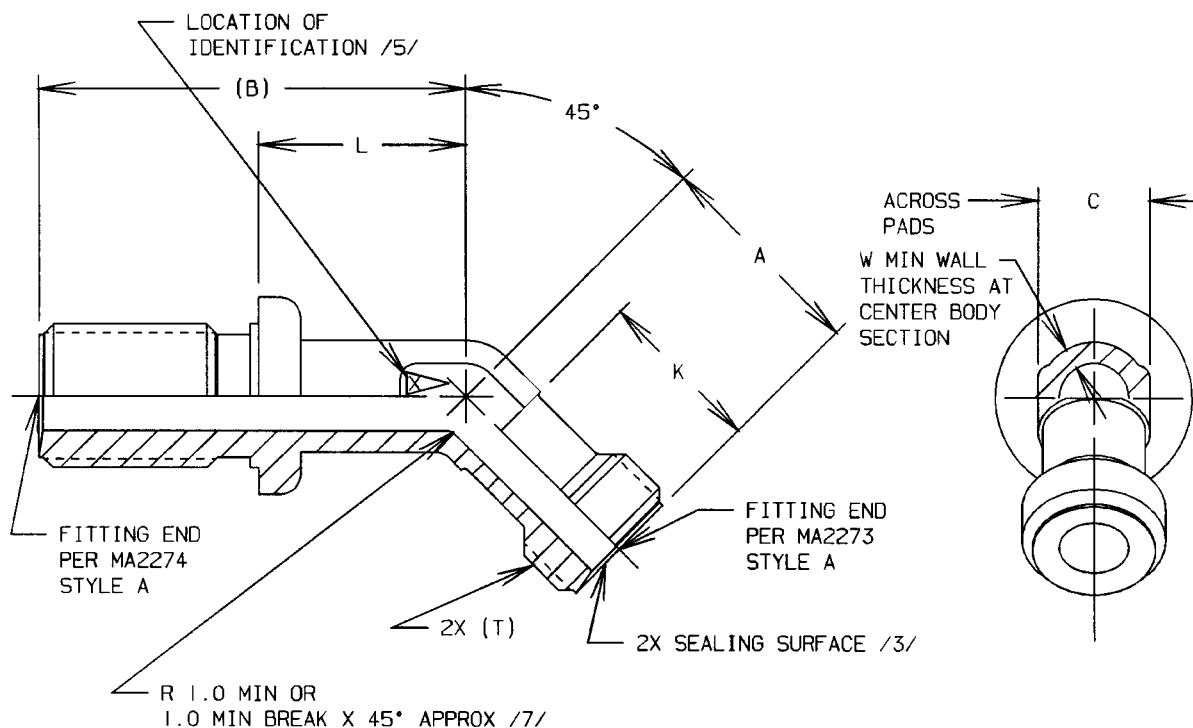


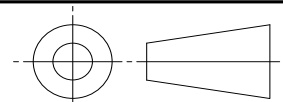
FIGURE 1 - ELBOW, 45°, BULKHEAD BEAM SEAL

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. MA2292 /15/ SIZE CODE	(NOMINAL TUBE SIZE DN) /1/	T PER MA1370 (ISO 5855/3) 4g 6g	A	B	C	K	L	W	kg/EA MAX TI
05	5	MJ 10 X 1	16.3	32.3	7.50- 8.06	12.1	16.8	1.0	.0101
06	6	MJ 12 X 1.25	17.8	37.0	8.50- 9.06	13.4	19.0	1.1	.0161
08	8	MJ 14 X 1.5	20.8	40.8	10.50-11.06	16.0	19.8	1.2	.0229
10	10	MJ 16 X 1.5	21.8	41.8	12.40-13.06	16.6	19.8	1.2	.0296
12	12	MJ 18 X 1.5	23.8	42.8	14.4 -15.1	18.2	19.8	1.3	.0370
14	14	MJ 20 X 1.5	23.8	42.8	15.4 -16.1	18.0	19.8	1.4	.0587
16	16	MJ 22 X 1.5	25.8	43.8	17.4 -18.1	19.6	20.8	1.4	.0646
18	18	MJ 24 X 1.5	27.8	44.8	20.4 -21.1	20.9	21.8	1.4	.0717
20	20	MJ 27 X 1.5	27.8	45.8	23.4 -24.1	20.3	22.8	1.6	.0892
22	22	MJ 30 X 1.5	30.8	46.8	26.4 -27.1	22.7	23.8	1.7	.104
25	25	MJ 33 X 1.5	32.8	48.8	29.4 -30.1	24.1	25.8	2.3	.139
28	28	MJ 36 X 1.5	34.8	50.8	33.2 -34.1	25.3	26.3	2.3	.177
32	32	MJ 39 X 1.5	36.4	54.0	35.2 -36.2	26.4	29.5	2.4	.213

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA2292>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B /9/

PROCUREMENT SPECIFICATION: /4/ MA2005 (ISO 7169)



AEROSPACE STANDARD

FITTING, ELBOW, 45°, BULKHEAD BEAM SEAL,
METRIC

MA2292
SHEET 1 OF 2

Documents

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NOTES:

- /1/ DN = NOMINAL TUBE OUTSIDE DIAMETER.
- /2/ MATERIAL: CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY FORGING OR 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.
- /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/ RADIUS OR BREAK APPLICABLE FOR TITANIUM PARTS ONLY.
8. WHEN MACHINED FROM BAR OR OVERSIZE FORGING, THE CENTER BODY SECTION SHALL CONFORM TO MA2023, TABLE 3.
- /9/ REVISIONS OF THIS STANDARD SHALL BE COORDINATED WITH SAE COMMITTEE E-25.
10. INTERPRETATION OF DRAWING PER MAP4296.
11. SURFACE TEXTURE: SYMBOLS PER ANSI Y14.36; REQUIREMENTS PER ANSI/ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 3.2 μm Ra. FORGED SURFACES MAY BE 6.3 μm .
12. BREAK EDGES 0.1 TO 0.4 UNLESS OTHERWISE SPECIFIED.
13. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
14. DIMENSIONS IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ± 0.2 , ANGULAR DIMENSIONS $\pm 0^\circ 30'$.
- /15/ EXAMPLE OF PART NUMBER: MA2292 T 08

BASIC PART NUMBER _____

MATERIAL CODE LETTER /2/ _____

SIZE CODE, TUBE SIZE
IN MILLIMETERS



AEROSPACE STANDARD

FITTING, ELBOW, 45°, BULKHEAD BEAM SEAL,
METRIC

MA2292
SHEET 2 OF 3



Documents

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