

REV.
B

MA2012

FEDERAL SUPPLY CLASS
4730

RATIONALE

MA2012B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

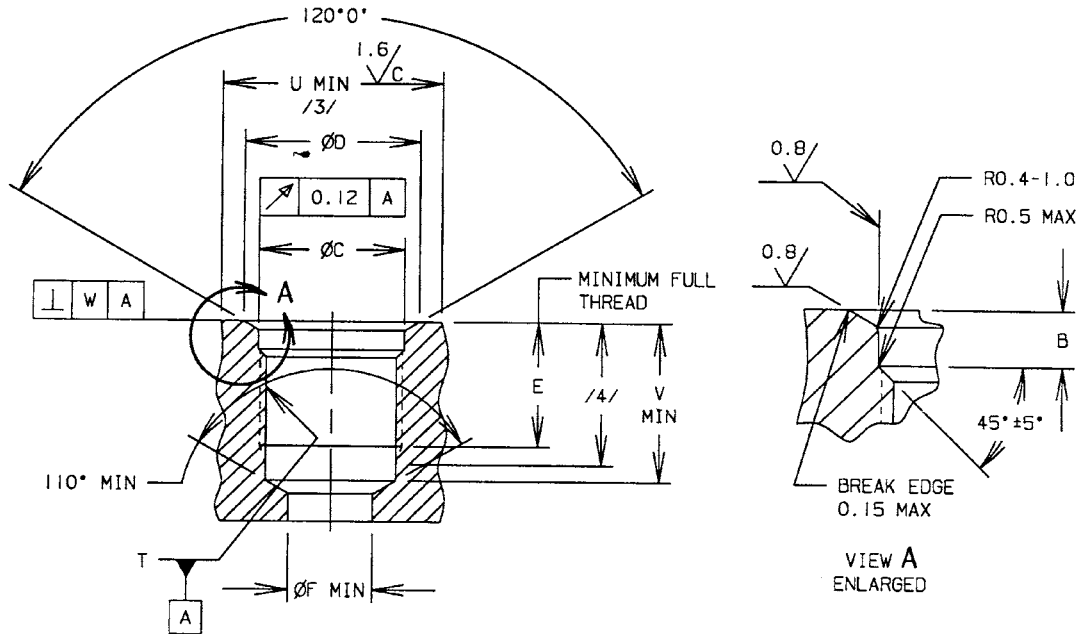


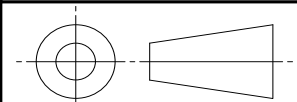
FIGURE 1 - PORT

TABLE 1 - DIMENSIONS

BASIC NO. MA2012 /15/ SIZE CODE	(NOMINAL TUBE SIZE DN) /1/	T THREAD PER MA1370 (ISO 5855-3) 4H5H /6/	B	C	D	E	F	U /3/	V	W
03	3	MJ 8 X 1	2.1	8.6 - 8.7	11.5	11.0	2.5	15	14.5	0.08
04	4	MJ 8 X 1	2.1	8.6 - 8.7	11.5	11.0	3.5	15	14.5	0.08
05	5	MJ 10 X 1	2.3	10.6 - 10.7	13.5	11.0	4.2	18	14.5	0.08
06	6	MJ 12 X 1.25	2.1	12.6 - 12.7	15.5	12.5	5.2	20	16.5	0.08
08	8	MJ 14 X 1.5	3.6	14.60 - 14.75	18.5	16.0	7.0	23	20.5	0.10
10	10	MJ 16 X 1.5	3.6	16.60 - 16.75	20.5	16.0	9.0	25	20.5	0.10
12	12	MJ 18 X 1.5	3.6	18.60 - 18.75	22.5	16.0	10.8	28	20.5	0.10
14	14	MJ 20 X 1.5	3.6	20.60 - 20.75	24.5	16.0	12.6	31	20.5	0.10
16	16	MJ 22 X 1.5	3.6	22.60 - 22.75	26.5	16.0	14.4	31	20.5	0.10
18	18	MJ 24 X 1.5	3.6	24.60 - 24.75	28.5	16.0	16.0	33	20.5	0.10
20	20	MJ 27 X 1.5	3.6	27.60 - 27.75	31.5	16.0	18.0	37	20.5	0.10
25	25	MJ 33 X 1.5	3.6	33.60 - 33.75	37.5	16.0	22.4	42	20.5	0.20
32	32	MJ 42 X 2	4.5	43.00 - 43.15	47.3	20.0	29.2	53	26.0	0.20
40	40	MJ 50 X 2	4.5	51.00 - 51.15	55.3	20.0	36.8	61	26.0	0.20

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/MA2012B>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B /7/

PROCUREMENT SPECIFICATION: NONE /2/



AEROSPACE STANDARD

(R) PORT, INTERNAL, STRAIGHT THREAD, FITTING
CONNECTION, DESIGN STANDARD, METRIC

MA2012
SHEET 1 OF 2

REV.
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Documents

NOTES:

- /1/ DN = NOMINAL TUBE OUTSIDE DIAMETER.
- /2/ THIS DESIGN STANDARD IS FOR USE WITH FITTINGS PER MA2005 (ISO 7169).
- /3/ MINIMUM DIAMETER FLAT SURFACE. CLEARANCE PROVISIONS FOR FITTING, WRENCH, FITTING INSTALLATIONS AND TOOL FILLET RADII MUST BE ADDED AS REQUIRED. U DIAMETER MAY BE REDUCED BY 1.5 WHEN IT DEFINES THE LIMITS OF A RAISED SURFACE AND WHEN STRENGTH REQUIREMENTS PERMIT.
- /4/ THROUGH THREAD DESIGN SHALL HAVE SUFFICIENT THREADS TO MEET STRENGTH REQUIREMENT FOR MATERIAL USED.
- 5. E DIMENSION IS THE FULL THREAD DEPTH REQUIREMENT FOR BLIND TAP DESIGN.
- /6/ THREAD GAGING SHALL BE IN ACCORDANCE WITH MA1566.
- /7/ REVISIONS OF THIS STANDARD SHALL BE COORDINATED WITH SAE COMMITTEE E-25.
- 8. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN 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 DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.
- 9. INVENTORIED PARTS WITH FITTING PORTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" OF THIS STANDARD MAY BE USED TO DEPLETION.
- 10. INTERPRETATION OF DRAWING PER MAP4296.
- 11. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 3.2 μm Ra.
- 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 DRAWING CALLOUT:**
 - a. TABULATED PART DRAWING: PORT PER MA2012
 - b. INDIVIDUAL PART DRAWING: MA2012 - 12

BASIC NUMBER _____

 SIZE CODE, TUBE SIZE

 IN MILLIMETERS

	AEROSPACE STANDARD		MA2012 SHEET 2 OF 2	REV. B
	(R) PORT, INTERNAL, STRAIGHT THREAD, FITTING CONNECTION, DESIGN STANDARD, METRIC			



Documents

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