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AS85421/12

FEDERAL SUPPLY CLASS
4730

NOTICE

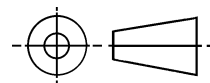
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THIRD ANGLE PROJECTION



ISSUED 2001-05

PREPARED BY SAE COMMITTEE G-3

PROCUREMENT SPECIFICATION: NONE

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Land Sea Air and Space®
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

FITTING, ELBOW, 90°, BEAM SEAL,
3000/4000 PSI, MALE TO MALE

AS85421/12
SHEET 1 OF 4

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION: MIL-F-85421.

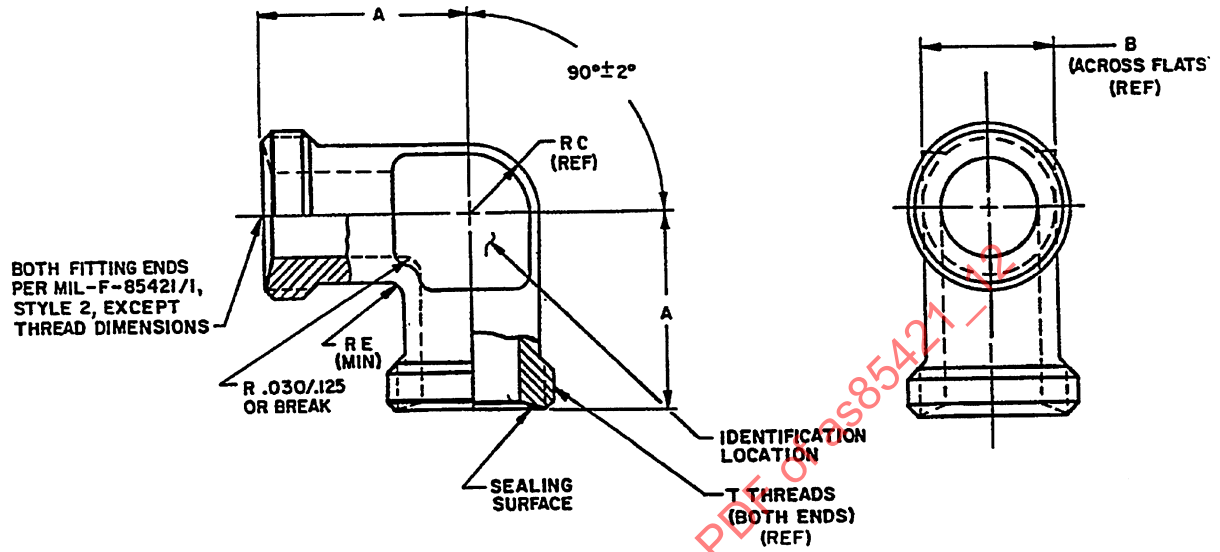


TABLE I. DIMENSIONAL DATA.

Dash No.	Tube O.D.	T Thread MIL-S-8879 (Ref)	A	B (Ref)	C Rad (Ref)	E Rad (Min)	Wt Lbs (Max)	
							Ti	Cres
-03	.188	.3750-28UNJS-3A	.575	.375	.188	.042	.017	.029
-04	.250	.4375-24UNJS-3A	.617	.375	.188	.042	.022	.033
-05	.312	.5000-24UNJS-3A	.653	.438	.219	.042	.034	.061
-06	.375	.5625-20UNJS-3A	.704	.500	.250	.042	.047	.084
-08	.500	.7188-20UNJS-3A	.824	.562	.281	.070	.076	.134
-10	.625	.8438-18UNJS-3A	.955	.688	.344	.070	.113	.200
-12	.750	1.0000-16UNJ-3A	1.062	.875	.438	.098	.185	.327
-14	.875	1.1250-16UNJ-3A	1.216	1.125	.563	.098	.246	.429
-16	1.000	1.2500-14UNJS-3A	1.246	1.125	.563	.098	.267	.473
-20	1.250	1.5781-14UNJS-3A	1.387	1.375	.688	.098	.355	.628
-24	1.500	1.8438-14UNJS-3A	1.688	1.625	.813	.098	.547	.967

SIZES -20 AND -24 WERE ORIGINALLY DESIGNATED AS SIZES -21 AND -25 ON SOME MANUFACTURER'S DRAWINGS. THESE SIZES WILL NOT CONNECT WITH THE ORIGINAL -20 AND -24 FITTINGS. SEE PARAGRAPH 6.9 IN THE PROCUREMENT SPECIFICATION FOR ADDITIONAL INFORMATION.

REQUIREMENTS:

1. MATERIALS: TITANIUM ALLOY } SEE PROCUREMENT
CORROSION RESISTANT STEEL } SPECIFICATION
2. FINISH: TITANIUM: FLUORIDE PHOSPHATE COAT PER AMS 2486.
CORROSION RESISTANT STEEL: SURFACE SHALL BE TREATED AND PASSIVATED PER OO-P-35.

NOTES:

1. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS $\pm .015$.
2. REMOVE ALL BURRS AND BREAK ALL SHARP EDGES.
3. ALL MACHINED SURFACES SHALL BE SMOOTH TO 125 MICROINCHES Ra PER ANSI/ASME B46.1 UNLESS OTHERWISE SPECIFIED.
4. PART NUMBERS:
ADD "T" AFTER SLASH NUMBER FOR 6AL-4V TITANIUM ALLOY PER AMS 4965.
ADD "P" AFTER SLASH NUMBER FOR 17-4PH CORROSION RESISTANT STEEL PER AMS 5643.
ADD "V" AFTER SLASH NUMBER FOR 15-5PH CORROSION RESISTANT STEEL PER AMS 5659.
5. EXAMPLE OF PART NUMBERS:

M85421/12 V 12

Tube size in sixteenths (01 = .0625 inch)

Material code (V = Cres AMS 5659) (see note 4)

Basic specification sheet number