

REV.
A

AS85421/7

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS85421/7A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

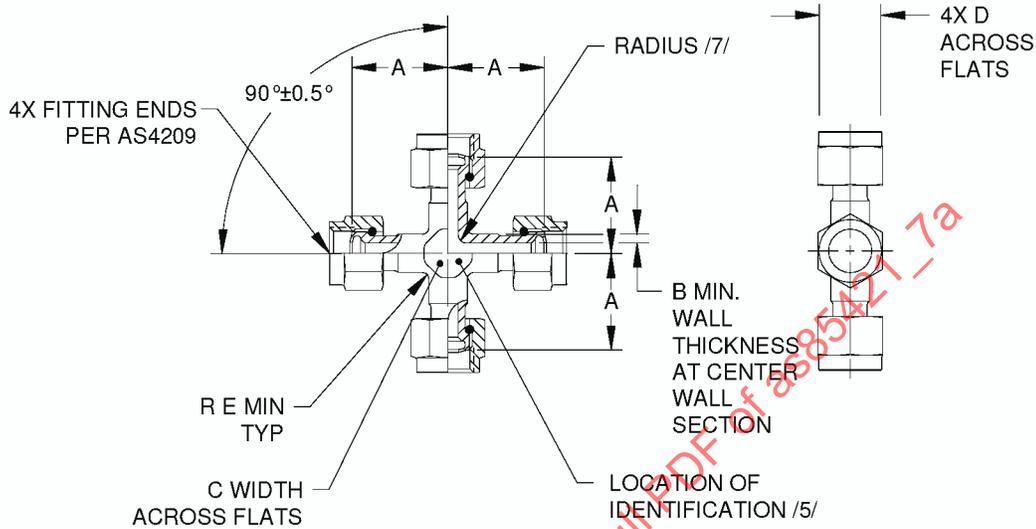


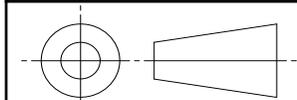
FIGURE 1 - FITTING ASSEMBLY, CROSS

TABLE 1

BASIC NO. AS85421/7						MASS LB/EA MAX	MASS LB/EA MAX
/15/ SIZE CODE	A	B	C	D	E	TI	CRES
03	.770	.055	.360 - .377	.500	.042	.070	.120
04	.808	.060	.360 - .377	.562	.042	.085	.146
05	.850	.060	.423 - .440	.625	.070	.107	.185
06	.945	.060	.485 - .502	.688	.070	.140	.241
08	1.045	.065	.547 - .565	.875	.070	.220	.380
10	1.178	.070	.673 - .691	1.000	.098	.294	.511
12	1.316	.095	.860 - .878	1.125	.098	.373	.648
16	1.529	.110	1.110 - 1.128	1.500	.098	.777	1.353

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS85421/7A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS85421 /4/



AEROSPACE STANDARD

FITTING ASSEMBLY,
CROSS, BEAM SEAL,
3000/4000 PSI, 4 FEMALE ENDS

AS85421/7
SHEET 1 OF 3

REV.
A

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ISSUED 2005-09 REVISED 2008-01 REAFFIRMED 2015-04

NOTES:

/1/ MATERIAL:

- a. CODE LETTER P – TYPE 17-4PH CORROSION RESISTANT STEEL BAR OR FORGING PER AMS 5643.
- b. CODE LETTER T – TYPE 6AL-4V TITANIUM ALLOY BAR OR FORGING PER AMS 4965.
- c. CODE LETTER V – TYPE 15-5PH CORROSION RESISTANT STEEL BAR OR FORGING PER AMS 5659.

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER P – CONDITION H1075 PER AMS 2759/3.
- b. MATERIAL CODE LETTER T – NONE.
- c. MATERIAL CODE LETTER V – CONDITION H1075 PER AMS-H-6875 OR AMS 2759/3.

3. FINISH:

- a. MATERIAL CODE LETTER P – PASSIVATE PER AMS 2700, TYPE 6 OR 7.
- b. MATERIAL CODE LETTER T – NONE.
- c. MATERIAL CODE LETTER V – PASSIVATE PER AMS 2700, TYPE 6 OR 7.

/4/ PROCUREMENT SPECIFICATION: AS85421 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS85421 FOR THIS STANDARD. SEE WW.EAUDITNET.COM FOR CURRENT QPL ON-LINE.

/5/ IDENTIFICATION AT LOCATION SHOWN: MARK PER AS478 CLASS C OR D, OR METHOD 7A3, 15A3, OR 15B.

- a. FOR SIZES 06 AND SMALLER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, LETTERS "AS" AND MATERIAL CODE LETTER, AND FORGING MANUFACTURER'S IDENTIFICATION, WHEN MADE FROM FORGING.
- b. FOR SIZES 08 AND LARGER: MANUFACTURER'S NAME, CAGE CODE OR TRADEMARK, BASIC PART NUMBER AND MATERIAL CODE LETTER, AND FORGING MANUFACTURER'S IDENTIFICATION, WHEN MADE FROM FORGING.

6. INTENDED USE: THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS FOLLOWS:

- a. CORROSION RESISTANT STEEL AT 3000 PSI MAX.
- b. TITANIUM ALLOY AT 4000 PSI MAX.

/7/ .030 MIN. RADIUS UNLESS QUALIFICATION OF SPECIAL PROCESS WITH SMALLER RADIUS, APPLICABLE FOR TITANIUM ALLOY PARTS ONLY.

8. DRY FILM LUBRICANT: APPLY DRY FILM LUBRICANT PER AS5272, TYPE I TO THE THREADS OF THE NUT. MINOR OVER SPRAY ON THE OUTSIDE OF THE NUT IS PERMITTED.

	AEROSPACE STANDARD	AS85421/7 SHEET 2 OF 3	REV. A
	FITTING ASSEMBLY, CROSS, BEAM SEAL, 3000/4000 PSI, 4 FEMALE ENDS		