

REV.
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AS85421™/5

RATIONALE

CUSTODIAN NOTE REVISED TO INCLUDE SUB-COMMITTEE GROUP. HEADINGS IN TABLE 1 REVISED. FINISH FOR MATERIAL CODE LETTERS P AND V CHANGED FROM TYPE 6 OR 7 TO 2 OR 8. UPDATED PROCUREMENT SPECIFICATION NOTE TO CURRENT QPL VERBIAGE. TITANIUM USAGE NOTE 10 REMOVED. (THIS NOTE SHOULD NOT BE PART OF THE PART STANDARD). ADDED NEW NOTE 11: WHEN MACHINED FROM BAR STOCK OR OVERSIZED FORGING, THE CENTER BODY DIMENSIONS SHALL CONFORM TO AS1376, TABLE 4. REVISION INDICATOR NOTE REVISED TO CURRENT VERBIAGE.

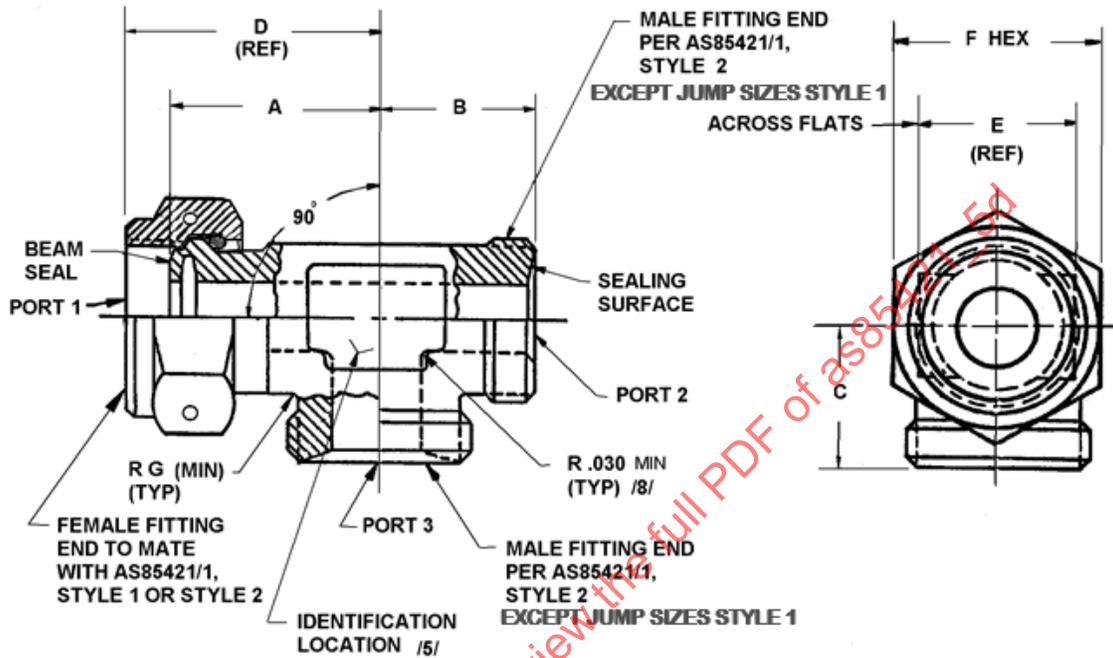
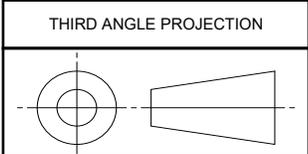


FIGURE 1

SAENORM.COM : Click to view the full PDF of AS85421/5

For more information on this standard, visit
<https://www.sae.org/standards/content/AS85421/5D/>



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS85421 /4/



AEROSPACE STANDARD

FITTING, TEE, REDUCER AND NON-REDUCER,
BEAM SEAL, 3000/4000 PSI, MALE ON RUN AND
BRANCH, SWIVEL NUT ON RUN

AS85421™/5
SHEET 1 OF 3

REV.
D

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TABLE 1 - DIMENSIONS A TO G

AS85421/5			A	B	C	D (REF)	E (REF)	F		G RAD (MIN)	MASS LB/EA MAX	
PORT #1 SIZE CODE /16/	PORT #2 SIZE CODE /16/	PORT #3 SIZE CODE /16/						MIN	MAX		TI	CRES
04	04	04	.808	.684	.684	1.014	.500	.558	.565	.042	.058	.102
04	06	06	.808	.704	.704	1.014	.500	.558	.565	.042	.056	.098
06	04	04	.945	.684	.684	1.178	.500	.684	.692	.042	.067	.117
06	04	06	.945	.684	.704	1.178	.500	.684	.692	.042	.066	.116
06	08	04	.945	.824	.684	1.178	.562	.684	.692	.042	.085	.149
06	06	06	.945	.704	.704	1.178	.500	.684	.692	.042	.066	.116
08	06	08	1.045	.811	.824	1.294	.562	.871	.878	.070	.105	.184
08	08	08	1.045	.824	.824	1.294	.562	.871	.878	.070	.106	.186
10	06	06	1.178	.878	.878	1.485	.688	.996	1.003	.070	.142	.248

NOTES:

1/ MATERIAL:

- a. CODE LETTER P: TYPE 17-4PH CORROSION RESISTANT STEEL PER AMS5643.
- b. CODE LETTER T: TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928 OR AMS4965.
- c. CODE LETTER V: TYPE 15-5PH, CORROSION RESISTANT STEEL PER AMS5659.

2. HEAT TREATMENT:

- a. MATERIAL CODE LETTER P: CONDITION H1075 PER AMS2759/3.
- b. MATERIAL CODE LETTER T: NONE.
- c. MATERIAL CODE LETTER V: AGE TO CONDITION H 1075 PER AMS-H-6875 OR AMS2759/3.

3. FINISH:

- a. MATERIAL CODE LETTER P: PASSIVATE PER AMS2700, TYPE 2 OR 8.
- b. MATERIAL CODE LETTER T: NONE.
- c. MATERIAL CODE LETTER V: PASSIVATE PER AMS2700, TYPE 2 OR 8.

4/ PROCUREMENT SPECIFICATION: AS85421, EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) AND VALUE ADDED DISTRIBUTORS (VAD) SHALL BE LISTED IN THE PRI QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS85421 FOR THIS STANDARD. SEE www.eAuditNet.com FOR CURRENT QPL ONLINE.

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. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.

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

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

8/ .030 MIN RADIUS UNLESS QUALIFICATION OF SPECIAL PROCESS WITH SMALLER RADIUS, APPLICABLE FOR TITANIUM ALLOY PARTS ONLY.

	AEROSPACE STANDARD	AS85421™/5 SHEET 2 OF 3	REV. D
	FITTING, TEE, REDUCER AND NON-REDUCER, BEAM SEAL, 3000/4000 PSI, MALE ON RUN AND BRANCH, SWIVEL NUT ON RUN		