

RATIONALE

AS85421/9A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

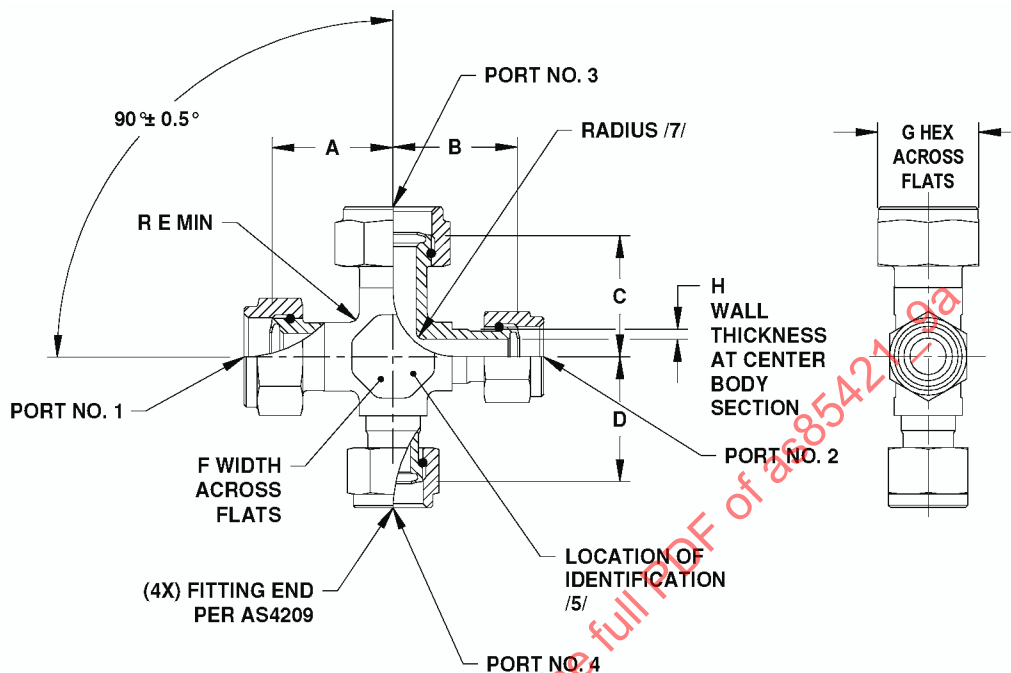


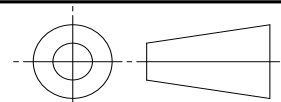
FIGURE 1 - FITTING ASSEMBLY, CROSS, REDUCER

TABLE 1

BASIC NO. AS85421/9	PORT NO. 1 SIZE CODE	PORT NO. 2 SIZE CODE	PORT NO. 3 SIZE CODE	PORT NO. 4 SIZE CODE	A	B	C	D	E	F	MASS LB/EA MAX Ti	MASS LB/EA MAX CRES
001	06	04	04	04	.945	.875	.875	.875	.070	.486-.502	.116	.200
002	06	04	06	04	.945	.875	.945	.875	.070	.486-.502	.124	.214
003	08	06	06	06	1.045	1.052	1.052	1.052	.070	.547-.565	.186	.322
004	08	06	08	06	1.045	1.052	1.045	1.052	.070	.547-.565	.197	.341
005	10	08	08	08	1.178	1.112	1.112	1.112	.098	.673-.691	.271	.469
006	10	08	10	08	1.178	1.112	1.178	1.112	.098	.673-.691	.278	.483
007	12	10	10	10	1.316	1.245	1.245	1.245	.098	.860-.878	.357	.622
008	12	10	12	10	1.316	1.245	1.316	1.245	.098	.860-.878	.362	.630
009	16	12	12	12	1.529	1.452	1.452	1.452	.098	1.120-1.128	.596	1.040
010	16	12	16	12	1.529	1.452	1.528	1.452	.098	1.120-1.128	.655	1.143

SAE values your input. To provide feedback  
on this Technical Report, please visit  
<http://www.sae.org/technical/standards/AS85421/9A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS85421 /4/



AEROSPACE STANDARD

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

AS85421/9  
SHEET 1 OF 3

REV.  
A

TABLE 2

FITTING SIZE	G	H
04	.562	.060
06	.688	.060
08	.875	.065
10	1.000	.070
12	1.125	.095
16	1.500	.110

## 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 – AGE TO 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.

**AEROSPACE STANDARD**

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

**AS85421/9**  
SHEET 2 OF 3

**REV.**  
**A**