

REV.  
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SAE AS893

RATIONALE

UPDATE SAE TEMPLATE TO ADD REVISION BLOCK, ADDED DATE TO NOTE /4/ a, ADDED REFERENCE DESIGNATIONS TO DIMENSIONS W, X, T AND P IN TABLES 2 AND 5 TO AGREE WITH FIGURE 1, AND GENERAL UPDATING AS NECESSARY.

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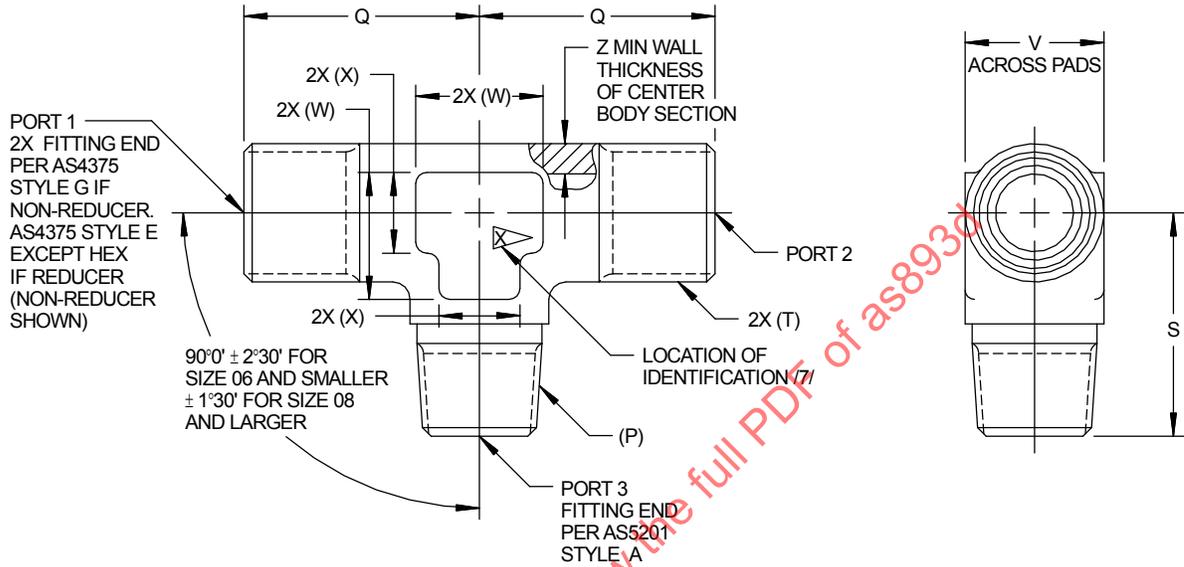
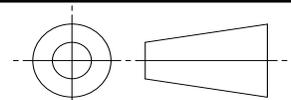


FIGURE 1 – FITTING, TEE, STANDARD AND REDUCER, FLARELESS TUBE TO PIPE ON SIDE, EXTERNAL THREAD

INACTIVE IN PART /4/

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THIRD ANGLE PROJECTION



CUSTODIAN: SAE G-3/G-3B

PROCUREMENT SPECIFICATION: /6/ AS4842/2

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

FITTING, TEE, STANDARD AND REDUCER, FLARELESS TUBE TO PIPE ON SIDE, EXTERNAL THREAD

**SAE AS893**  
SHEET 1 OF 6

REV.  
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TABLE 1 - FORGING SIZE /8/

	LARGEST SIZE OF PORT 1 OR PORT 2 02	LARGEST SIZE OF PORT 1 OR PORT 2 03	LARGEST SIZE OF PORT 1 OR PORT 2 04	LARGEST SIZE OF PORT 1 OR PORT 2 05	LARGEST SIZE OF PORT 1 OR PORT 2 06	LARGEST SIZE OF PORT 1 OR PORT 2 08	LARGEST SIZE OF PORT 1 OR PORT 2 10	LARGEST SIZE OF PORT 1 OR PORT 2 12	LARGEST SIZE OF PORT 1 OR PORT 2 16	LARGEST SIZE OF PORT 1 OR PORT 2 20	LARGEST SIZE OF PORT 1 OR PORT 2 24	LARGEST SIZE OF PORT 1 OR PORT 2 32
02	03	03	04	05	06	08	10	12	16	20	24	32
04	06	06	06	06	06	08	10	12	16	20	24	32
06	08	08	08	08	08	08	10	12	16	20	24	32
08	10	10	10	10	10	10	10	12	16	20	24	32
12	12	12	12	12	12	12	12	12	16	20	24	32
16	16	16	16	16	16	16	16	16	16	20	24	32
20	20	20	20	20	20	20	20	20	20	20	24	32
24	24	24	24	24	24	24	24	24	24	24	24	32
32	32	32	32	32	32	32	32	32	32	32	32	32

TABLE 2 - DIMENSIONS V, W, X, Z

BASIC NO. AS893 /8/ /14/				
SIZE CODE	V	(W)	(X)	Z
03	.360-.377	.375	.250	.090
04	.423-.440	.375	.250	.110
05	.485-.502	.469	.312	.120
06	.547-.565	.500	.312	.120
08	.735-.753	.688	.438	.150
10	.860-.878	.781	.438	.170
12	1.047-1.065	.906	.500	.185
16	1.292-1.317	1.094	.625	.205
20	1.605-1.630	1.312	.750	.240
24	1.855-1.880	1.500	.875	.250
32	2.542-2.572	2.031	1.188	.350

TABLE 3 - LEG LENGTH Q

FORGING SIZE	SIZE OF PORT 1											
	OR PORT 2											
	02	03	04	05	06	08	10	12	16	20	24	32
03	.789	.836										
04	.820	.867	.898									
05	.883	.930	.961	.961								
06	.961	1.008	1.039	1.039	1.055							
08	1.086	1.133	1.164	1.164	1.180	1.273						
10	1.180	1.226	1.258	1.258	1.274	1.367	1.430					
12	1.272	1.320	1.351	1.351	1.367	1.460	1.523	1.586				
16	1.429	1.476	1.507	1.507	1.523	1.616	1.679	1.742	1.742			
20	1.585	1.632	1.663	1.663	1.679	1.772	1.835	1.898	1.898	1.898		
24	1.710	1.757	1.788	1.788	1.804	1.897	1.960	2.023	2.023	2.023	2.023	
32	2.148	2.159	2.226	2.226	2.242	2.335	2.398	2.461	2.461	2.461	2.461	2.461

TABLE 4 - LEG LENGTH S ±.031

FORGING SIZE	SIZE OF PORT 3									
	02	04	06	08	12	16	20	24	32	
03	.727									
04	.789									
05	.789									
06	.898	1.085								
08	.993	1.196	1.211							
10	1.087	1.290	1.305	1.477						
12	1.179	1.382	1.397	1.569	1.585					
16	1.368	1.571	1.586	1.758	1.774	1.961				
20	1.758	1.961	1.976	2.148	2.164	2.351	2.383			
24	1.883	2.086	2.101	2.273	2.289	2.476	2.508	2.524		
32	2.337	2.540	2.555	2.727	2.743	2.930	2.962	2.977	3.008	

TABLE 5 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	NOMINAL TUBE SIZE	(T) THREAD PER AS8879	(P) THREAD PER AS71051 ANPT
02	.125	.3125-24 UNJF-3A	1/8-27
03	.188	.3750-24 UNJF-3A	---
04	.250	.4375-20 UNJF-3A	1/4-18
05	.312	.5000-20 UNJF-3A	---
06	.375	.5625-18 UNJF-3A	3/8-18
08	.500	.7500-16 UNJF-3A	1/2-14
10	.625	.8750-14 UNJF-3A	---
12	.750	1.0625-12 UNJ-3A	3/4-14
16	1.000	1.3125-12 UNJ-3A	1-11 1/2
20	1.250	1.6250-12 UNJ-3A	1 1/4-11 1/2
24	1.500	1.8750-12 UNJ-3A	1 1/2-11 1/2
32	2.000	2.5000-12 UNJ-3A	2-11 1/2

## NOTES:

## NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

## /1/ MATERIAL:

- a. DASH AS CODE LETTER - TYPE 4130 STEEL FORGING OR BAR PER AMS-S-6758 OR AMS6370.
- b. CODE LETTER D - TYPE 2014-T6 ALUMINUM ALLOY FORGING PER AMS4133, OR TYPE 2024-T6 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6, OR TYPE 2024-T851 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/6 OR AMS4339. /4/
- c. CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- d. CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
- e. CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.
- f. CODE LETTER S - TYPE 347 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5646. /4/
- g. CODE LETTER W - TYPE 7075-T73 ALUMINUM ALLOY FORGING PER AMS-QQ-A-367 OR AMS4141, OR TYPE 7075-T73 ALUMINUM ALLOY BAR PER AMS-QQ-A-225/9, OR TYPE 7075-T7351 ALUMINUM ALLOY BAR PER AMS4124.