

REV.
C

AS895

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS895C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

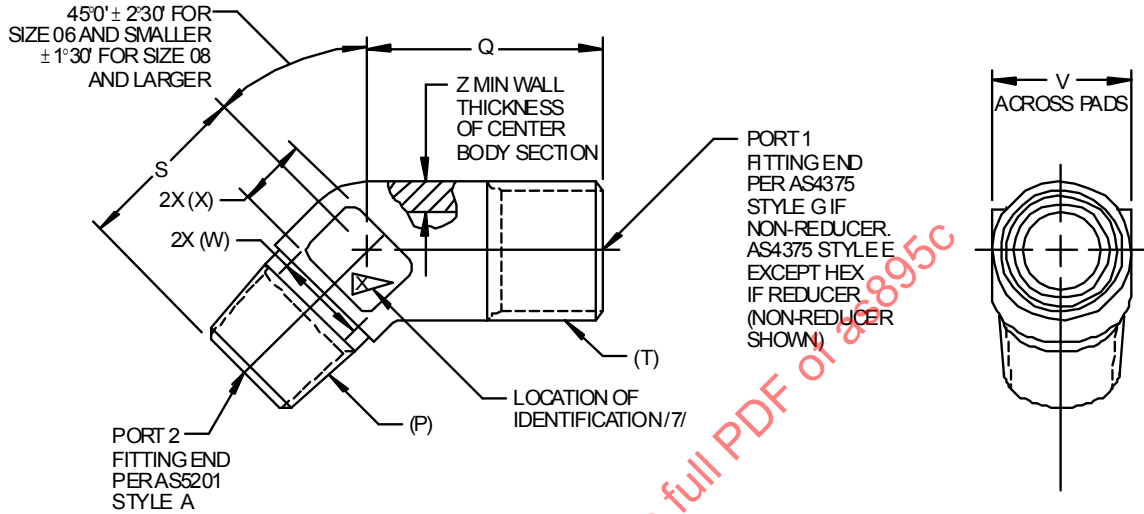
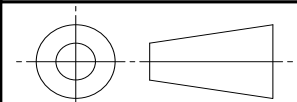


FIGURE 1 - FITTING, ELBOW, 45°, STANDARD AND REDUCER, FLARELESS TUBE TO PIPE, EXTERNAL THREAD

INACTIVE IN PART /4/

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS895C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /6/ AS4842/2



AEROSPACE STANDARD

(R) FITTING, ELBOW, 45°, STANDARD AND REDUCER, FLARELESS TUBE TO PIPE, EXTERNAL THREAD

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TABLE 1 - FORGING SIZE /8/

SIZE OF PORT 2	SIZE OF PORT 1 02	SIZE OF PORT 1 03	SIZE OF PORT 1 04	SIZE OF PORT 1 05	SIZE OF PORT 1 06	SIZE OF PORT 1 08	SIZE OF PORT 1 10	SIZE OF PORT 1 12	SIZE OF PORT 1 16	SIZE OF PORT 1 20	SIZE OF PORT 1 24	SIZE OF PORT 1 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 - Z

BASIC NO. AS895 /8/ /15/				
SIZE CODE	V	W	X	Z
03	.360- .377	.219	.188	.090
04	.423- .440	.312	.219	.110
05	.485- .502	.312	.219	.120
06	.547- .565	.375	.250	.120
08	.735- .753	.500	.375	.150
10	.860- .878	.625	.375	.170
12	1.047-1.065	.812	.438	.185
16	1.292-1.317	.938	.438	.205
20	1.605-1.630	1.250	.688	.240
24	1.855-1.880	1.500	.750	.250
32	2.542-2.572	2.000	.875	.350

**AEROSPACE STANDARD**

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FLARELESS TUBE TO PIPE,
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TABLE 3 - LEG LENGTH Q

FORGING SIZE	SIZE OF PORT 1 02	SIZE OF PORT 1 03	SIZE OF PORT 1 04	SIZE OF PORT 1 05	SIZE OF PORT 1 06	SIZE OF PORT 1 08	SIZE OF PORT 1 10	SIZE OF PORT 1 12	SIZE OF PORT 1 16	SIZE OF PORT 1 20	SIZE OF PORT 1 24	SIZE OF PORT 1 32
03	.633	.680										
04	.633	.680	.711									
05	.664	.711	.742	.742								
06	.742	.789	.820	.820	.836							
08	.805	.852	.883	.883	.899	.992						
10	.836	.883	.914	.914	.930	1.023	1.086					
12	.960	1.007	1.038	1.038	1.054	1.147	1.210	1.273				
16	1.054	1.101	1.132	1.132	1.148	1.241	1.304	1.367	1.367			
20	1.148	1.195	1.226	1.226	1.242	1.335	1.398	1.461	1.461	1.461		
24	1.242	1.289	1.320	1.320	1.336	1.429	1.492	1.555	1.555	1.555	1.555	
32	1.523	1.570	1.601	1.601	1.617	1.710	1.773	1.836	1.836	1.836	1.836	1.836

TABLE 4 - LEG LENGTH S $\pm$.031

FORGING SIZE	SIZE OF PORT 2 02	SIZE OF PORT 2 04	SIZE OF PORT 2 06	SIZE OF PORT 2 08	SIZE OF PORT 2 12	SIZE OF PORT 2 16	SIZE OF PORT 2 20	SIZE OF PORT 2 24	SIZE OF PORT 2 32
03	.500								
04	.625								
05	.625								
06	.641	.844							
08	.719	.922	.938						
10	.766	.969	.984	1.156					
12	.781	.984	1.000	1.172	1.188				
16	.875	1.078	1.094	1.266	1.281	1.469			
20	1.031	1.234	1.250	1.422	1.438	1.625	1.656		
24	1.172	1.375	1.391	1.562	1.578	1.766	1.797	1.812	
32	1.442	1.625	1.641	1.813	1.828	2.016	2.047	2.062	2.094

**AEROSPACE STANDARD**

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TABLE 5 - TUBE SIZE AND CORRESPONDING THREAD

PORT SIZE	NOMINAL TUBE SIZE	T THREAD	P THREAD
		PER AS8879	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.

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