

FEDERAL SUPPLY CLASS  
4730

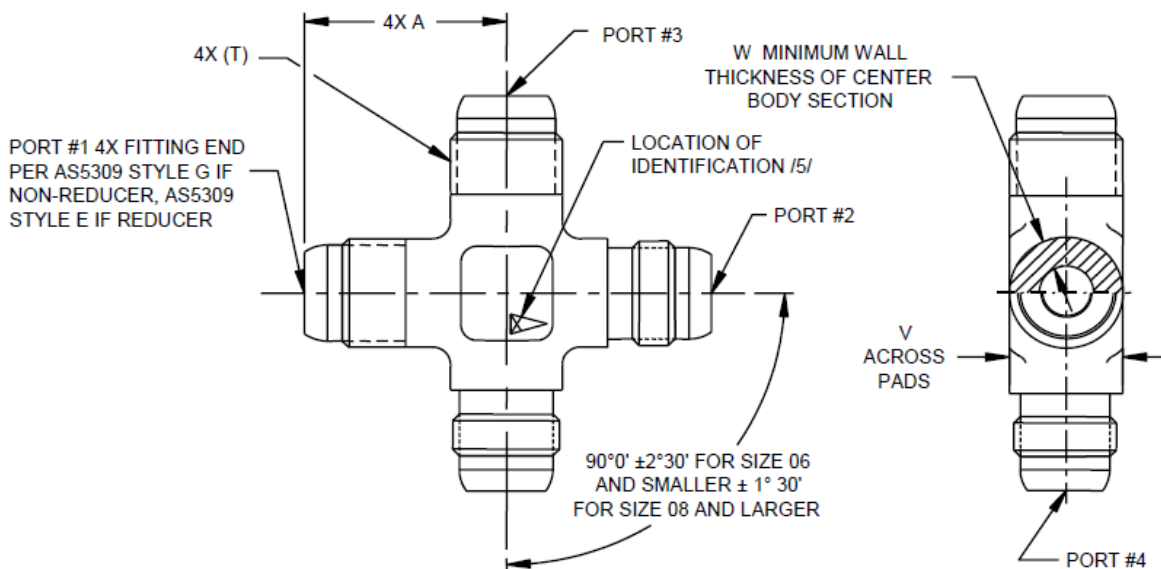
**REV.  
B**

**RATIONALE**

HEAT TREATMENT NOTE 2a REVISED AND NEW NOTE 2b ADDED. QML STATEMENT REVISED. INTENDED USE™ NOTE REVISED. NOTES 6a, 6b, AND 6c DELETED.

**AS6103™**

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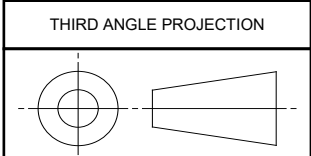


**FIGURE 1 - CROSS**

**TABLE 1 - DIMENSIONS AND WEIGHTS /1/**

BASIC NO. AS6103 /17/	DIMENSIONS		LB/EA APPROX REF ALUM	LB/EA APPROX REF CRES	LB/EA APPROX REF TI
SIZE CODE	V	W			
02	.297- .314	.090	.0172	.0495	.0273
03	.360- .377	.100	.0250	.0717	.0396
04	.423- .440	.110	.0336	.0966	.0533
05	.485- .502	.120	.0435	.125	.0689
06	.547- .565	.120	.0567	.163	.0898
08	.735- .753	.150	.118	.340	.187
10	.860- .878	.170	.156	.447	.246
12	1.047-1.065	.185	.284	.814	.449
16	1.292-1.317	.205	.403	1.16	.638
20	1.605-1.630	.240	.665	1.91	1.05
24	1.855-1.880	.240	.905	2.60	1.43
32	2.542-2.572	.350	2.17	6.73	3.44

**For more information on this standard, visit**  
<https://www.sae.org/standards/content/AS6103B/>



CUSTODIAN: G-3

PROCUREMENT SPECIFICATION: AS4841 /4/



**AEROSPACE STANDARD**

FITTING, CROSS,  
STANDARD AND REDUCER,  
37° SPHERICAL, FLARED

**AS6103™**  
SHEET 1 OF 4

**REV.  
B**

ISSUED 2011-07 REVISED 2020-04

**TABLE 2 - LEG LENGTH A**

FORGING SIZE /10/	TUBE SIZE OF PORT #1, #2, #3, #4 02	TUBE SIZE OF PORT #1, #2, #3, #4 03	TUBE SIZE OF PORT #1, #2, #3, #4 04	TUBE SIZE OF PORT #1, #2, #3, #4 05	TUBE SIZE OF PORT #1, #2, #3, #4 06	TUBE SIZE OF PORT #1, #2, #3, #4 08	TUBE SIZE OF PORT #1, #2, #3, #4 10	TUBE SIZE OF PORT #1, #2, #3, #4 12	TUBE SIZE OF PORT #1, #2, #3, #4 16	TUBE SIZE OF PORT #1, #2, #3, #4 20	TUBE SIZE OF PORT #1, #2, #3, #4 24	TUBE SIZE OF PORT #1, #2, #3, #4 32
02	.757	-	-	-	-	-	-	-	-	-	-	-
03	.789	.820	-	-	-	-	-	-	-	-	-	-
04	.789	.811	.882	-	-	-	-	-	-	-	-	-
05	.843	.874	.945	.945	-	-	-	-	-	-	-	-
06	.946	.977	1.048	1.048	1.054	-	-	-	-	-	-	-
08	1.033	1.064	1.135	1.135	1.141	1.242	-	-	-	-	-	-
10	1.135	1.166	1.237	1.237	1.243	1.344	1.445	-	-	-	-	-
12	1.232	1.263	1.334	1.334	1.340	1.441	1.542	1.648	-	-	-	-
16	1.341	1.372	1.443	1.443	1.449	1.550	1.651	1.757	1.804	-	-	-
20	1.544	1.575	1.646	1.646	1.652	1.753	1.854	1.960	2.007	2.054	-	-
24	1.685	1.716	1.787	1.787	1.793	1.894	1.995	2.101	2.148	2.195	2.320	-
32	2.169	2.200	2.271	2.271	2.277	2.378	2.479	2.585	2.632	2.679	2.804	3.054

**TABLE 3 - TUBE SIZE AND CORRESPONDING THREAD**

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

NOTES:

NOTICE

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

/1/ MATERIAL:

- CODE LETTER F - TYPE 4140 ALLOY STEEL BAR PER AMS6349 OR AMS6382 OR TYPE 4130 ALLOY STEEL FORGING OR BAR PER AMS6370 OR AMS-S-6758.
- CODE LETTER J - TYPE 304 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5639.
- CODE LETTER K - TYPE 316 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5648.
- CODE LETTER R - TYPE 321 CORROSION RESISTANT STEEL FORGING OR BAR PER AMS-QQ-S-763 OR AMS5645.

	<b>AEROSPACE STANDARD</b>	<b>AS6103™</b> SHEET 2 OF 4	<b>REV.</b> <b>B</b>
	FITTING, CROSS, STANDARD AND REDUCER, 37° SPHERICAL, FLARED		