

REV.  
B

AS5807™

FEDERAL SUPPLY CLASS  
XXXX

RATIONALE

REVISED NOTE 13 FOR DEFINITION CORRECTION OF DIMENSION "A1" AND "B1" (FITTING BODY LENGTH). ADDED SUFFIX CODE "B" FOR FITTING ASSEMBLIES WITH BLUE ANODIZED RINGS AND NOTE 15 AS AN OPTION FOR FUTURE REPLACEMENT OF "NO CODE" BLUE COATING OR PAINT. CORRECTED "W4" AND "W4A" FOR 080808 AND "W4A" FOR 100806. UPDATED FIGURE AND REVISED NOTES 3, 7, AND 14. ADDED NOTES 12 AND 16 AND AS6449 AS A NEW LUBRICANT TYPE.

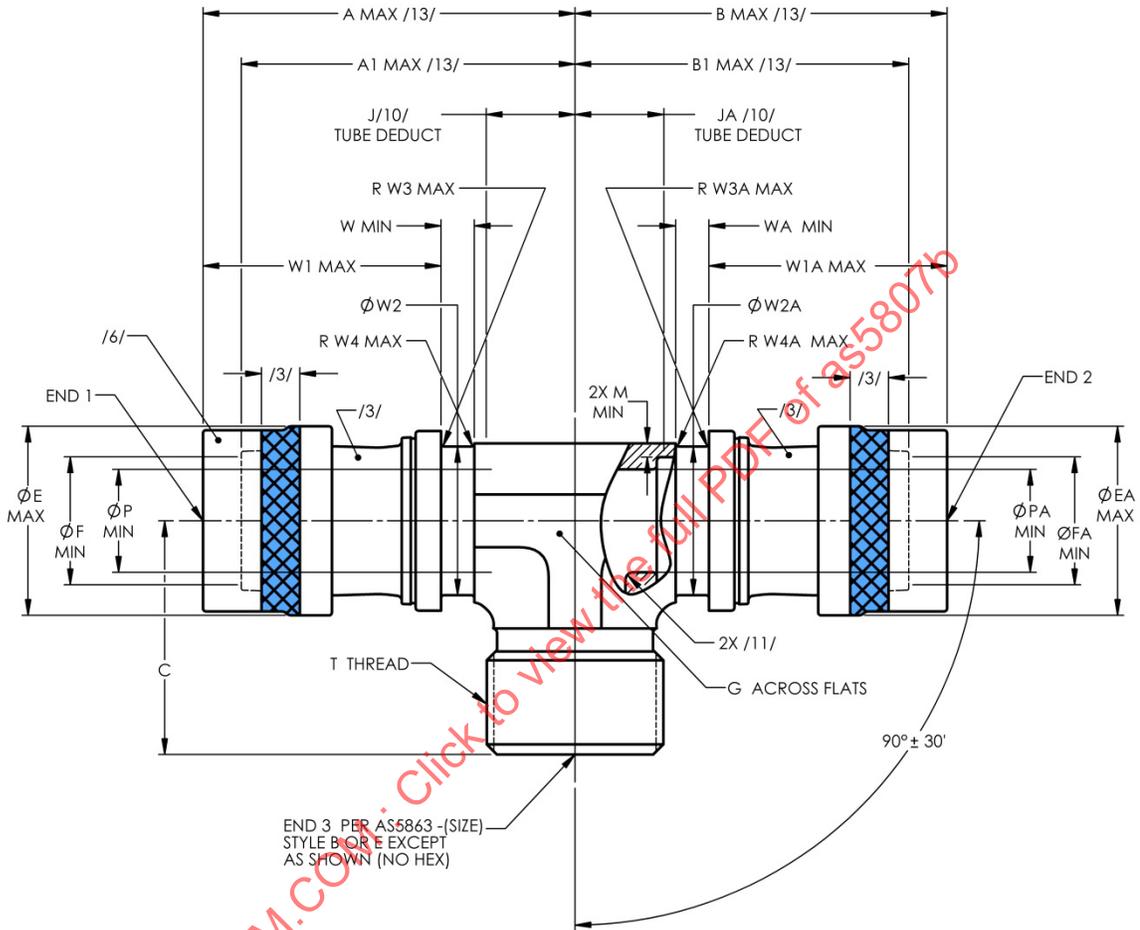
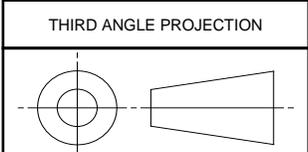


FIGURE 1- TEE, AXIALLY SWAGED ON THE RUN, MALE FLARELESS ON BRANCH

(SEE TABLES 1A, 1B, 1C, AND 1D FOR DIMENSIONS AND WEIGHTS)

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS5807B>



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS5958 /4/



AEROSPACE STANDARD

(R) FITTING ASSEMBLY, TEE, AXIALLY SWAGED ON THE RUN, MALE FLARELESS ON THE BRANCH HYDRAULIC, 3000 PSI

AS5807™  
SHEET 1 OF 4

REV.  
B

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

ISSUED 2008-07 REAFFIRMED 2015-04 REVISED 2015-08

**TABLE 1A - DIMENSIONS A THROUGH EA**

BASIC NO. AS5807 /14/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	NOMINAL TUBE SIZE END 3	A MAX.	A1 MAX.	B MAX.	B1 MAX.	C ±.015	E MAX.	EA MAX.
040404	.2500	.2500	.2500	.935	.848	.935	.848	.767	.466	.466
060606	.3750	.3750	.3750	1.215	1.099	1.215	1.099	.846	.609	.609
080808	.5000	.5000	.5000	1.516	1.370	1.516	1.370	1.032	.783	.783
100806	.6250	.5000	.3750	1.873	1.669	1.579	1.433	1.002	.939	.783
101004	.6250	.6250	.2500	1.873	1.669	1.873	1.669	.986	.939	.939
101006	.6250	.6250	.3750	1.873	1.669	1.873	1.669	1.002	.939	.939
101010	.6250	.6250	.6250	1.873	1.669	1.873	1.669	1.158	.939	.939
121212	.7500	.7500	.7500	2.149	1.944	2.149	1.944	1.346	1.122	1.122
161616	1.0000	1.0000	1.0000	2.606	2.392	2.606	2.392	1.505	1.495	1.495
202020	1.2500	1.2500	1.2500	3.020	2.796	3.020	2.796	1.627	1.758	1.758

**TABLE 1B - DIMENSIONS F THROUGH JA**

BASIC NO. AS5807 /14/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	NOMINAL TUBE SIZE END 3	F MIN.	FA MIN.	G	J/10/ TUBE DEDUCT.	JA /10/ TUBE DEDUCT.
040404	.2500	.2500	.2500	.253	.253	.380- .348	.353 ±.150	.353 ±.150
060606	.3750	.3750	.3750	.378	.378	.509- .477	.416 ±.150	.416 ±.150
080808	.5000	.5000	.5000	.504	.504	.647- .615	.517 ±.175	.517 ±.175
100806	.6250	.5000	.3750	.629	.504	.783- .751	.580 ±.175	.580 ±.175
101004	.6250	.6250	.2500	.629	.629	.783- .751	.580 ±.175	.580 ±.175
101006	.6250	.6250	.3750	.629	.629	.783- .751	.580 ±.175	.580 ±.175
101010	.6250	.6250	.6250	.629	.629	.783- .751	.580 ±.175	.580 ±.175
121212	.7500	.7500	.7500	.754	.754	.925- .893	.712 ±.175	.712 ±.175
161616	1.0000	1.0000	1.0000	1.004	1.004	1.213-1.181	.878 ±.200	.878 ±.200
202020	1.2500	1.2500	1.2500	1.255	1.255	1.641-1.609	1.009 ±.200	1.009 ±.200

**TABLE 1C - DIMENSIONS M THROUGH W1A**

BASIC NO. AS5807 /14/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	NOMINAL TUBE SIZE END 3	M MIN.	P MIN.	PA MIN.	T THREAD PER AS8879	W MIN.	WA MIN.	W1 MAX.	W1A MAX.
040404	.2500	.2500	.2500	.043	.198	.198	.4375-20 UNJF-3A	.123	.123	.488	.488
060606	.3750	.3750	.3750	.045	.302	.302	.5625-18 UNJF-3A	.153	.153	.675	.675
080808	.5000	.5000	.5000	.052	.401	.401	.7500-16 UNJF-3A	.165	.165	.871	.871
100806	.6250	.5000	.3750	.057	.507	.401	.5625-18 UNJF-3A	.140	.165	1.190	.871
101004	.6250	.6250	.2500	.057	.507	.507	.4375-20 UNJF-3A	.140	.140	1.190	1.190
101006	.6250	.6250	.3750	.057	.507	.507	.5625-18 UNJF-3A	.140	.140	1.190	1.190
101010	.6250	.6250	.6250	.057	.507	.507	.8750-14 UNJF-3A	.140	.140	1.190	1.190
121212	.7500	.7500	.7500	.065	.604	.604	1.0625-12 UNJ-3A	.154	.154	1.327	1.327
161616	1.0000	1.0000	1.0000	.084	.802	.802	1.3125-12 UNJ-3A	.167	.167	1.612	1.612
202020	1.2500	1.2500	1.2500	.174	1.011	1.011	1.6250-12 UNJ-3A	.185	.185	1.886	1.886



**AEROSPACE STANDARD**

(R) FITTING ASSEMBLY, TEE, AXIALLY SWAGED ON THE RUN, MALE FLARELESS ON THE BRANCH HYDRAULIC, 3000 PSI

**AS5807™**  
SHEET 2 OF 4

**REV. B**

**TABLE 1D - DIMENSIONS W2 THROUGH W4A AND WEIGHT**

BASIC NO. AS5807 /14/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	NOMINAL TUBE SIZE END 3	W2 ±.0015	W2A ±.0015	W3 MAX.	W3A MAX.	W4 MAX.	W4A MAX.	WEIGHT LB/EA APPROX. REF.
040404	.2500	.2500	.2500	.3005	.3005	.018	.018	.065	.065	.027
060606	.3750	.3750	.3750	.4475	.4475	.033	.033	.065	.065	.054
080808	.5000	.5000	.5000	.5945	.5945	.033	.033	.129	.129	.107
100806	.6250	.5000	.3750	.7365	.5945	.021	.033	.078	.129	.145
101004	.6250	.6250	.2500	.7365	.7365	.021	.021	.078	.078	.165
101006	.6250	.6250	.3750	.7365	.7365	.021	.021	.078	.078	.170
101010	.6250	.6250	.6250	.7365	.7365	.021	.021	.078	.078	.174
121212	.7500	.7500	.7500	.8805	.8805	.024	.024	.089	.089	.280
161616	1.0000	1.0000	1.0000	1.1725	1.1725	.027	.027	.099	.099	.568
202020	1.2500	1.2500	1.2500	1.4345	1.4345	.030	.030	.113	.113	.960

NOTES:

/1/ MATERIALS:

CODE LETTER "T"

RING - AMS4965 TITANIUM ALLOY, 6.0Al - 4.0V SOLUTION HEAT TREATED AND AGED OR AMS4928 TITANIUM ALLOY 6.0Al - 4.0V ANNEALED WITH HIGH STRENGTH CARBON FIBER/EPOXY RESIN COMPOSITE REINFORCEMENT.

BODY - AMS4928 TITANIUM ALLOY, 6.0Al - 4.0V ANNEALED.

2. FINISH:

TITANIUM - NONE REQUIRED

/3/ COATINGS/LUBRICANTS /15/:

a. NO SUFFIX CODE LETTER

- (1) RING - THE OUTER SURFACE SHALL HAVE A .125 INCH MINIMUM WIDTH BLUE COLORED RING OR SHALL BE COMPLETELY COLORED BLUE TO MATCH THE SWAGE TOOL COLOR CODE SPECIFIED IN THE AS5959 INSTALLATION PROCEDURE. BLUE PTFE COATING OR PAINT SHALL BE RESISTANT TO AS1241 FLUID WHEN USED. MARKING METHODS SHALL BE IN ACCORDANCE WITH AS5958.
- (2) BODY - LEAD FREE SOLID FILM LUBRICANT PER AS5272 TYPE I OR II, OR PER AS6449 TYPE III OR IV, PTFE OR PETROLEUM-BASED LUBRICANT SHALL BE APPLIED TO PORTIONS OF THE ID AND OD. THE PETROLEUM-BASED LUBRICANT AND/OR AS5272 LUBRICANT SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

b. SUFFIX CODE LETTER "B"

- (1) RING - THE OUTER SURFACE SHALL HAVE A .125 INCH MINIMUM WIDTH BLUE ANODIZED RING OR SHALL BE COMPLETELY ANODIZED BLUE TO MATCH THE SWAGE TOOL COLOR CODE SPECIFIED IN THE AS5959 INSTALLATION PROCEDURE. MARKING METHODS SHALL BE IN ACCORDANCE WITH AS5958.
- (2) BODY - LEAD FREE SOLID FILM LUBRICANT PER AS5272 TYPE I OR II, OR PER AS6449 TYPE III OR IV, PTFE OR PETROLEUM-BASED LUBRICANT SHALL BE APPLIED TO PORTIONS OF THE ID AND OD. THE PETROLEUM-BASED LUBRICANT AND/OR AS5272 LUBRICANT SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

	<b>AEROSPACE STANDARD</b>	<b>AS5807™</b> SHEET 3 OF 4	<b>REV.</b> <b>B</b>
	(R) FITTING ASSEMBLY, TEE, AXIALLY SWAGED ON THE RUN, MALE FLARELESS ON THE BRANCH HYDRAULIC, 3000 PSI		