

REV. A

AS5810

FEDERAL SUPPLY CLASS
4730

RATIONALE

REVISED NOTE 13 FOR DEFINITION CORRECTION OF DIMENSION "B1" AND "C1" (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. UPDATED FIGURE AND WEIGHTS. REVISED NOTES 3, 7, AND 14. ADDED NOTES 12 AND 16 AND AS6449 AS A NEW LUBRICANT TYPE.

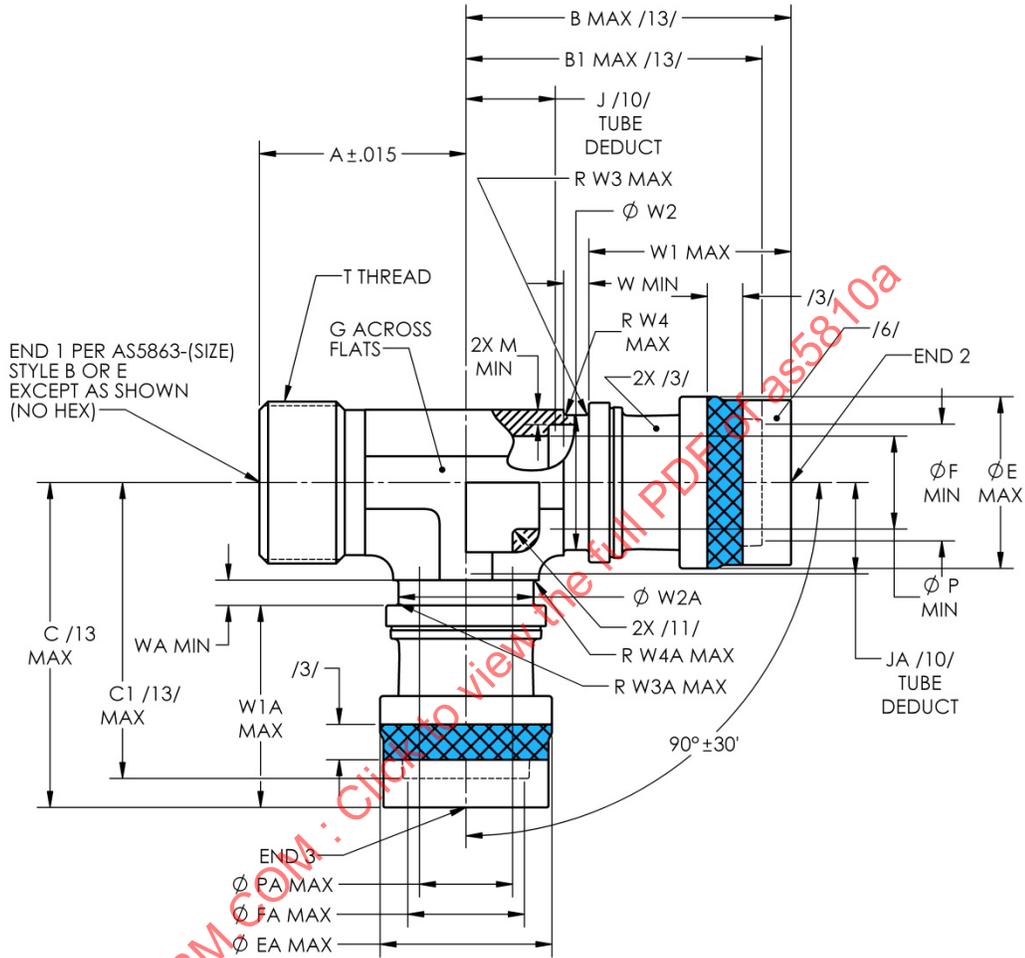
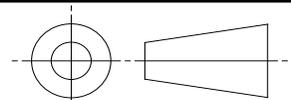


FIGURE 1 - FITTING ASSEMBLY, TEE, MALE FLARELESS ON THE RUN, AXIALLY SWAGED ON THE RUN AND THE BRANCH

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

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS5958



AEROSPACE STANDARD

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

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

TABLE 1A - DIMENSIONS A THROUGH EA

BASIC NO. AS5810 /14/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	NOMINAL TUBE SIZE END 3	A ±.015	B MAX.	B1 MAX.	C MAX.	C1 MAX.	E MAX.	EA MAX.
040404	.2500	.2500	.2500	.767	.935	.848	.935	.848	.466	.466
060606	.3750	.3750	.3750	.846	1.215	1.099	1.215	1.099	.609	.609
080808	.5000	.5000	.5000	1.032	1.516	1.370	1.516	1.370	.783	.783
101010	.6250	.6250	.6250	1.158	1.873	1.669	1.873	1.669	.939	.939
121212	.7500	.7500	.7500	1.346	2.149	1.944	2.149	1.944	1.122	1.122
161616	1.0000	1.0000	1.0000	1.505	2.606	2.392	2.606	2.392	1.495	1.495
202020	1.2500	1.2500	1.2500	1.627	3.020	2.796	3.020	2.796	1.758	1.758

TABLE 1B - DIMENSIONS F THROUGH JA

BASIC NO. AS5810 /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
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. AS5810 /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
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

TABLE 1D - DIMENSIONS W2 THROUGH W4A AND WEIGHT

BASIC NO. AS5810 /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	.026
060606	.3750	.3750	.3750	.4475	.4475	.033	.033	.065	.065	.052
080808	.5000	.5000	.5000	.5945	.5945	.033	.033	.129	.129	.106
101010	.6250	.6250	.6250	.7365	.7365	.021	.021	.078	.078	.177
121212	.7500	.7500	.7500	.8805	.8805	.024	.024	.089	.089	.285
161616	1.0000	1.0000	1.0000	1.1725	1.1725	.027	.027	.099	.099	.574
202020	1.2500	1.2500	1.2500	1.4345	1.4345	.030	.030	.113	.113	.975



AEROSPACE STANDARD

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

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NOTES:

/1/ MATERIALS:

CODE LETTER "T"

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

BODY - AMS4928 TITANIUM ALLOY, 6.0AI - 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.

/4/ PROCUREMENT SPECIFICATION: AS5958 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED AND ASSEMBLED BY AN ACCREDITED MANUFACTURER OR ASSEMBLED BY AN ACCREDITED DISTRIBUTOR LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST (QPL) PRI-QPL-AS5958 FOR THIS STANDARD. See www.eAuditNet.com FOR THE CURRENT QPL ON-LINE.

5. DIMENSIONS AND TOLERANCES NOT DEFINED ON THIS STANDARD SHALL BE SPECIFIED AND CONTROLLED BY THE MANUFACTURER. THE MANUFACTURER IS RESPONSIBLE TO ENSURE COMPLIANCE WITH THE PROCUREMENT SPECIFICATION.

/6/ IDENTIFICATION SHALL BE IN ACCORDANCE WITH AS5958 AND SHALL BE LOCATED ON EITHER RING IN THE AREA SHOWN.

7. FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH AS5959. THE AFTER SWAGE ACCEPTABILITY LIMIT DIMENSION "Z" FOR EACH PORT SIZE IS DEFINED IN AS5959.

8. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES SHALL BE 125 MICROINCHES Ra AND THE FORGED SURFACES SHALL BE 250 MICROINCHES Ra.

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