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REV.
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AS5793™

FEDERAL SUPPLY CLASS
4730

RATIONALE

ADDED SUFFIX LETTER CODE "B" FOR FITTING ASSEMBLIES WITH BLUE ANODIZED RINGS AND NOTE 14 AS AN OPTION FOR FUTURE REPLACEMENT OF "NO CODE" BLUE COATING OR PAINT. REVISED NOTES 3, 7, 8, AND 13. ADDED NOTES 11, 14, AND 15, RADIUS "W4" AND AS6449 AS A NEW LUBRICANT TYPE. REVISED "A1" FOR 0810, 1210, 1012, 1612, AND 1216. ADDED SIZE -20. UPDATED FIGURE AND WEIGHTS.

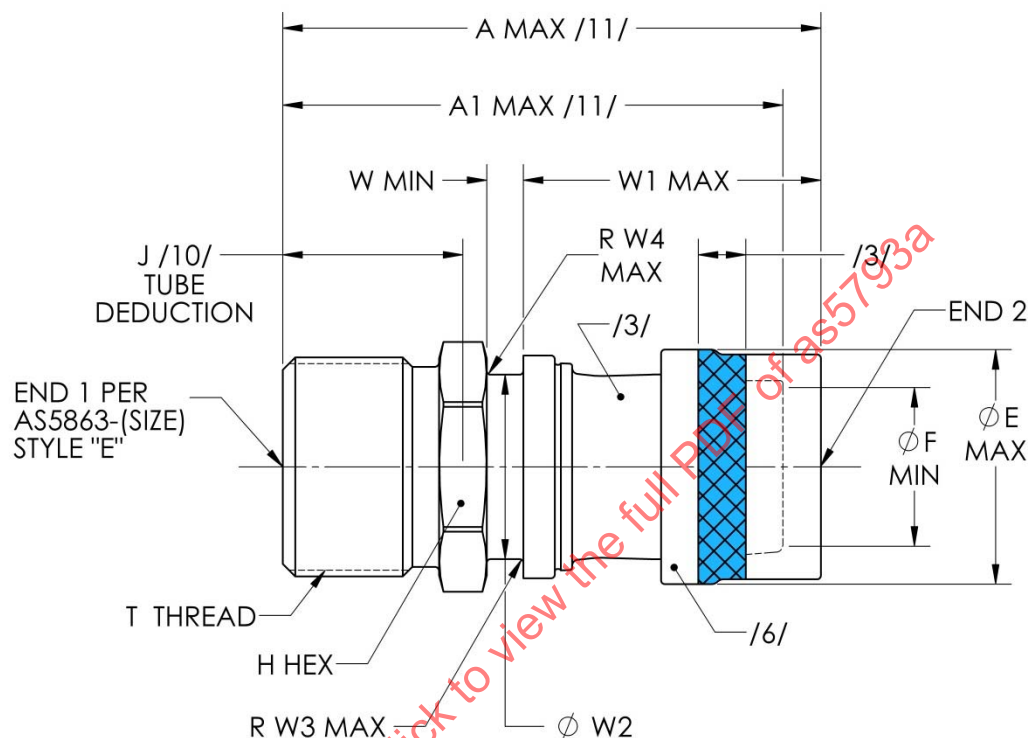
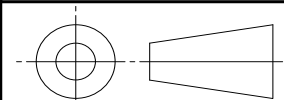


FIGURE 1 - STRAIGHT, MALE FLARELESS, AXIAL SWAGE

(SEE TABLES 1A AND 1B FOR DIMENSIONAL INFORMATION)

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on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS5793A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS5958 /4/



AEROSPACE STANDARD

(R) FITTING ASSEMBLY, STRAIGHT, MALE
FLARELESS, AXIALLY SWAGED,
HYDRAULIC, 3000 PSI

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ISSUED 2006-06 REVISED 2015-08

TABLE 1A - DIMENSIONS A THROUGH J

BASIC NO. AS5793 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A MAX	A1 MAX	E MAX	F MIN	(H)	J /10/ TUBE DEDUCT
0404	.2500	.2500	1.247	1.160	.466	.253	.438	.665 ±.150
0604	.3750	.2500	1.278	1.191	.466	.253	.563	.696 ±.150
0406	.2500	.3750	1.477	1.361	.609	.378	.563	.678 ±.150
0606	.3750	.3750	1.493	1.377	.609	.378	.563	.694 ±.150
0806	.5000	.3750	1.566	1.450	.609	.378	.750	.767 ±.150
0608	.3750	.5000	1.717	1.571	.783	.504	.750	.718 ±.175
0808	.5000	.5000	1.810	1.664	.783	.504	.750	.811 ±.175
1008	.6250	.5000	1.877	1.731	.783	.504	1.000	.878 ±.175
0810	.5000	.6250	2.112	1.908	.939	.629	1.000	.819 ±.175
1010	.6250	.6250	2.171	1.967	.939	.629	1.000	.878 ±.175
1210	.7500	.6250	2.258	2.054	.939	.629	1.063	.965 ±.175
1012	.6250	.7500	2.346	2.141	1.122	.754	1.063	.909 ±.175
1212	.7500	.7500	2.391	2.186	1.122	.754	1.063	.954 ±.175
1612	1.0000	.7500	2.435	2.230	1.122	.754	1.313	.998 ±.175
1216	.7500	1.0000	2.733	2.519	1.495	1.004	1.313	1.005 ±.200
1616	1.0000	1.0000	2.697	2.483	1.495	1.004	1.313	.969 ±.200
2016	1.2500	1.0000	2.733	2.519	1.495	1.004	1.625	1.005 ±.200
1620	1.0000	1.2500	3.025	2.801	1.758	1.255	1.625	1.014 ±.200
2020	1.2500	1.2500	2.999	2.775	1.758	1.255	1.625	.988 ±.200

TABLE 1B - DIMENSIONS W THROUGH W4 AND WEIGHTS

BASIC NO. AS5793 /13/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	T THREAD PER AS8879	W MIN	W1 MAX	W2 ±.0015	W3 MAX	W4 MAX	WEIGHT LB/EA APPROX REF
0404	.2500	.2500	.4375-20 UNJF-3A	.123	.488	.3005	.018	.065	.017
0604	.3750	.2500	.5625-18 UNJF-3A	.123	.488	.3005	.018	.065	.024
0406	.2500	.3750	.4375-20 UNJF-3A	.153	.675	.4475	.033	.065	.026
0606	.3750	.3750	.5625-18 UNJF-3A	.153	.675	.4475	.033	.065	.029
0806	.5000	.3750	.7500-16 UNJF-3A	.153	.675	.4475	.033	.065	.047
0608	.3750	.5000	.5625-18 UNJF-3A	.165	.871	.5945	.033	.065	.045
0808	.5000	.5000	.7500-16 UNJF-3A	.165	.871	.5945	.033	.129	.063
1008	.6250	.5000	.8750-14 UNJF-3A	.165	.871	.5945	.033	.129	.081
0810	.5000	.6250	.7500-16 UNJF-3A	.140	1.190	.7365	.021	.078	.087
1010	.6250	.6250	.8750-14 UNJF-3A	.140	1.190	.7365	.021	.078	.100
1210	.7500	.6250	1.0625-12 UNJ-3A	.140	1.190	.7365	.021	.078	.120
1012	.6250	.7500	.8750-14 UNJF-3A	.154	1.327	.8805	.024	.089	.132
1212	.7500	.7500	1.0625-12 UNJ-3A	.154	1.327	.8805	.024	.089	.140
1612	1.0000	.7500	1.3125-12 UNJ-3A	.154	1.327	.8805	.024	.089	.180
1216	.7500	1.0000	1.0625-12 UNJ-3A	.167	1.612	1.1725	.027	.099	.260
1616	1.0000	1.0000	1.3125-12 UNJ-3A	.167	1.612	1.1725	.027	.099	.260
2016	1.2500	1.0000	1.6250-12 UNJ-3A	.167	1.612	1.1725	.027	.099	.325
1620	1.0000	1.2500	1.3125-12 UNJ-3A	.185	1.886	1.4345	.030	.113	.355
2020	1.2500	1.2500	1.6250-12 UNJ-3A	.185	1.886	1.4345	.030	.113	.375



AEROSPACE STANDARD

(R) FITTING ASSEMBLY, STRAIGHT, MALE
FLARELESS, AXIALLY SWAGED,
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NOTES:

/1/ MATERIAL:

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 /14/:

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 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 IDENTIFIED ON THE 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.

9. DIMENSIONS AND TOLERANCES: ASME Y14.5M.-1994.

a. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

b. DIMENSIONAL TOLERANCES SHALL BE $\pm .005$ INCH UNLESS OTHERWISE SPECIFIED

c. ANGULAR TOLERANCES SHALL BE $\pm .50^\circ$ UNLESS OTHERWISE SPECIFIED

d. BREAK ALL EDGES .003 TO .010 INCH UNLESS OTHERWISE SPECIFIED

/10/ THIS DIMENSION IS THE ALLOWABLE TUBE END POSITIONING FOR SYSTEM LAYOUT DESIGN.

	AEROSPACE STANDARD	AS5793™ SHEET 3 OF 4	REV. A
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