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REV.
B

AS5979

FEDERAL SUPPLY CLASS
4730

RATIONALE

REVISED NOTE 12 FOR DEFINITION CORRECTION OF DIMENSION "A1" (FITTING BODY LENGTH), ADDED LETTER CODE "B" FOR FITTING ASSEMBLIES WITH BLUE ANODIZED RINGS AND NOTE 14 AS AN OPTION FOR FUTURE REPLACEMENT OF CURRENT BLUE COLOR CODING. CORRECTED DIMENSION "J" FOR 2016. REVISED NOTE 7, ADDED NOTE 13, 16 AND AS6449 AS A NEW LUBRICANT TYPE. UPDATED WEIGHTS.

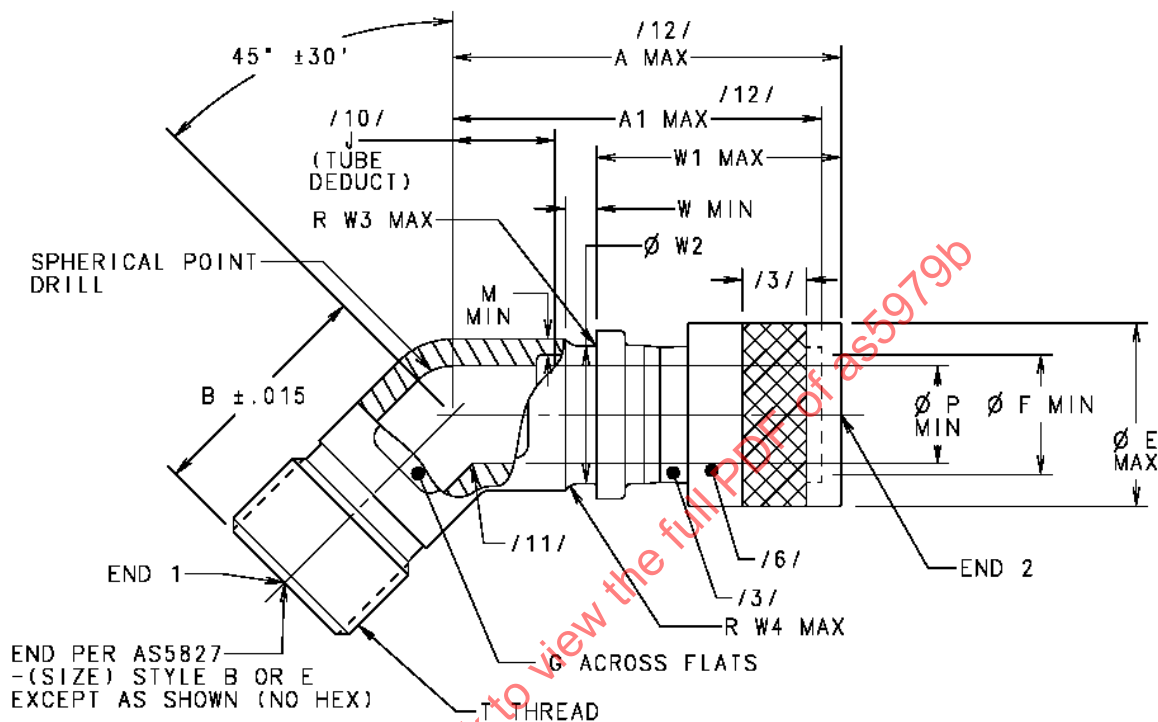
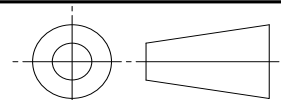


FIGURE 1 - ELBOW, ADAPTER, 45°, SWAGE

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

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THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS5958 /4/



AEROSPACE STANDARD

(R) FITTING ASSEMBLY, ELBOW, 45°, MALE
FLARELESS, AXIALLY SWAGED,
HYDRAULIC, 5080 PSI

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SHEET 1 OF 4

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ISSUED 2006-01 REVISED 2014-10

TABLE 1A - DIMENSIONS A THROUGH J

BASIC NO. AS5979 /14/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	A MAX.	A1 MAX.	B ±.015	E MAX.	F MIN.	G	J /10/ TUBE DEDUCT
0404	.2500	.2500	.934	.847	.766	.466	.253	.348- .380	.352 ±.150
0604	.3750	.2500	1.013	.926	.861	.466	.253	.477- .509	.431 ±.150
0406	.2500	.3750	1.230	1.114	.845	.609	.378	.477- .509	.431 ±.150
0606	.3750	.3750	1.230	1.114	.861	.609	.378	.477- .509	.431 ±.150
0806	.5000	.3750	1.269	1.153	.993	.609	.378	.615- .647	.470 ±.150
0608	.3750	.5000	1.477	1.331	.900	.783	.504	.615- .647	.478 ±.175
0808	.5000	.5000	1.477	1.331	.993	.783	.504	.615- .647	.478 ±.175
1008	.6250	.5000	1.556	1.410	1.135	.783	.504	.751- .783	.557 ±.175
0810	.5000	.6250	1.850	1.646	1.072	.939	.629	.751- .783	.557 ±.175
1010	.6250	.6250	1.850	1.646	1.135	.939	.629	.751- .783	.557 ±.175
1210	.7500	.6250	1.929	1.725	1.277	.939	.629	.893- .925	.636 ±.175
1012	.6250	.7500	2.080	1.875	1.214	1.122	.754	.893- .925	.643 ±.175
1212	.7500	.7500	2.080	1.875	1.277	1.122	.754	.893- .925	.643 ±.175
1612	1.0000	.7500	2.198	1.993	1.395	1.122	.754	1.181-1.213	.761 ±.175
1216	.7500	1.0000	2.496	2.282	1.395	1.495	1.004	1.181-1.213	.768 ±.200
1616	1.0000	1.0000	2.496	2.282	1.395	1.495	1.004	1.181-1.213	.768 ±.200
2016	1.2500	1.0000	2.673	2.459	1.572	1.495	1.004	1.609-1.641	.945 ±.200
1620	1.0000	1.2500	2.965	2.741	1.572	1.758	1.255	1.609-1.641	.954 ±.200
2020	1.2500	1.2500	2.965	2.741	1.572	1.758	1.255	1.609-1.641	.954 ±.200

TABLE 1B - DIMENSIONS M THROUGH W4 AND WEIGHTS

BASIC NO. AS5979 /14/ SIZE CODE	NOMINAL TUBE SIZE END 1	NOMINAL TUBE SIZE END 2	M MIN.	P MIN.	T THREAD PER AS8879	W MIN.	W1 MAX.	W2 ±.0015	W3 MAX.	W4 MAX.	WEIGHT LB/EA APP. REF.
0404	.2500	.2500	.043	.198	.4375-28 UNJEF-3A	.123	.488	.3005	.018	.065	.019
0604	.3750	.2500	.045	.198	.5625-24 UNJEF-3A	.123	.488	.3005	.018	.065	.035
0406	.2500	.3750	.045	.302	.4375-28 UNJEF-3A	.153	.675	.4475	.033	.065	.042
0606	.3750	.3750	.045	.302	.5625-24 UNJEF-3A	.153	.675	.4475	.033	.065	.042
0806	.5000	.3750	.052	.302	.7500-20 UNJEF-3A	.153	.675	.4475	.033	.065	.067
0608	.3750	.5000	.052	.401	.5625-24 UNJEF-3A	.165	.871	.5945	.033	.129	.071
0808	.5000	.5000	.052	.401	.7500-20 UNJEF-3A	.165	.871	.5945	.033	.129	.077
1008	.6250	.5000	.057	.401	.8750-20 UNJEF-3A	.165	.871	.5945	.033	.129	.111
0810	.5000	.6250	.057	.507	.7500-20 UNJEF-3A	.140	1.190	.7365	.021	.078	.121
1010	.6250	.6250	.057	.507	.8750-20 UNJEF-3A	.140	1.190	.7365	.021	.078	.121
1210	.7500	.6250	.065	.507	1.0625-18 UNJEF-3A	.140	1.190	.7365	.021	.078	.187
1012	.6250	.7500	.065	.604	.8750-20 UNJEF-3A	.154	1.327	.8805	.024	.089	.188
1212	.7500	.7500	.065	.604	1.0625-18 UNJEF-3A	.154	1.327	.8805	.024	.089	.197
1612	1.0000	.7500	.084	.604	1.3125-16 UNJ-3A	.154	1.327	.8805	.024	.089	.309
1216	.7500	1.0000	.084	.802	1.0625-18 UNJEF-3A	.167	1.612	1.1725	.027	.099	.386
1616	1.0000	1.0000	.084	.802	1.3125-16 UNJ-3A	.167	1.612	1.1725	.027	.099	.384
2016	1.2500	1.0000	.174	.802	1.6250-16 UNJ- 3A	.167	1.612	1.1725	.027	.099	.707
1620	1.0000	1.2500	.174	1.011	1.3125-16 UNJ-3A	.185	1.886	1.4345	.030	.113	.700
2020	1.2500	1.2500	.174	1.011	1.6250-16 UNJ- 3A	.185	1.886	1.4345	.030	.113	.731



AEROSPACE STANDARD

(R) FITTING ASSEMBLY, ELBOW, 45°, MALE
FLARELESS, AXIALLY SWAGED,
HYDRAULIC, 5080 PSI

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REV.
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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 COMPLETELY COLORED BLUE TO INDICATE 5080 PSI MAXIMUM OPERATING PRESSURE. 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 SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

b. SUFFIX CODE LETTER "B"

- (1) RING - PARTIALLY (.125 INCH MINIMUM WIDTH) OR COMPLETELY ANODIZED BLUE TO INDICATE 5080 PSI MAXIMUM OPERATING PRESSURE. 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 SHALL NOT BE IN CONTACT WITH THE SYSTEM FLUID.

/4/ PRODUCT SPECIFICATION: AS5958 EXCEPT AS SPECIFIED ON THIS STANDARD. ALL PRODUCTS SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS 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 IDENTIFIED ON RING.

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 THE MACHINED SURFACES SHALL BE 125 MICROINCHES Ra AND THE FORGED SURFACES SHALL BE 250 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.

	AEROSPACE STANDARD	AS5979 SHEET 3 OF 4	REV. B
	(R) FITTING ASSEMBLY, ELBOW, 45°, MALE FLARELESS, AXIALLY SWAGED, HYDRAULIC, 5080 PSI		