FEDERAL SUPPLY CLASS
4730

RATIONALE

REVISE DIAMETER "F" FOR NOMINAL SIZES .500," .625," .750" TO ALLOW ADDITIONAL DIAMETRICAL CLEARANCE BASED ON PHYSICAL PART MEASUREMENTS.

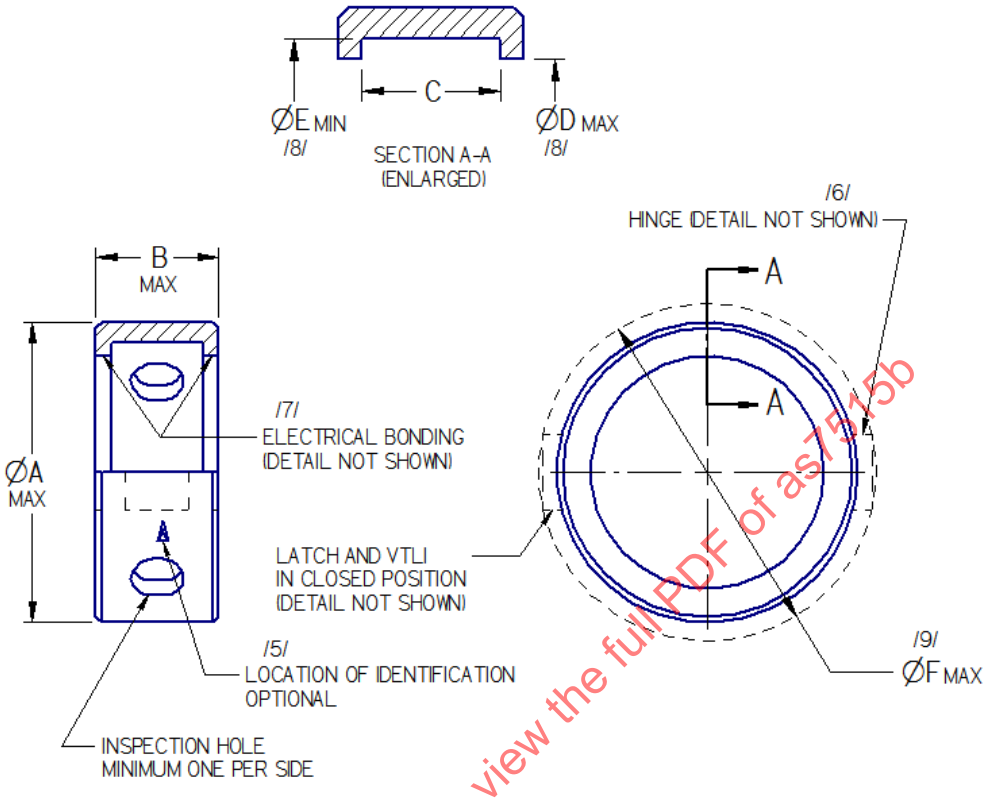
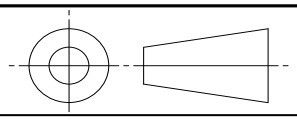


FIGURE 1 - COUPLING BODY

ISSUED 2017-09 REVISED 2020-12

For more information on this standard, visit
https://www.sae.org/standards/content/AS7515B

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: AS7510 /4/

SAE INTERNATIONAL

AEROSPACE STANDARD

COUPLING ASSEMBLY, THREADLESS - FLEXIBLE, FIXED CAVITY, CURRENT CARRYING, SELF BONDING

AS7515™
SHEET 1 OF 3

REV. B

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)** **Tel: +1 724-776-4970 (outside USA)**
Fax: 724-776-0790 **Email: CustomerService@sae.org** **SAE WEB ADDRESS: http://www.sae.org**

TABLE 1 - DIMENSIONS AND WEIGHTS /6/

BASIC NO. AS7515 /18/ SIZE CODE	NOM TUBE SIZE REF	ØA MAX /8/	B MAX	C +.003 -.007	ØD MAX /8/	ØE MIN /8/	ØF MAX /9/	MAX WEIGHT LB/EA (REF)
08	.500	1.17	.895	.646	.640	.777	2.01	.050
10	.625	1.30	.895	.646	.765	.902	2.08	.053
12	.750	1.48	1.019	.750	.925	1.083	2.23	.062
16	1.000	1.77	1.107	.830	1.190	1.364	2.45	.076
20	1.250	2.02	1.107	.830	1.440	1.611	2.70	.084
24	1.500	2.30	1.107	.830	1.690	1.881	2.98	.098
28	1.750	2.56	1.107	.830	1.940	2.133	3.24	.114
32	2.000	2.84	1.161	.874	2.193	2.406	3.52	.131
36	2.250	3.09	1.161	.874	2.443	2.656	3.77	.142
40	2.500	3.35	1.171	.874	2.693	2.910	4.03	.155
48	3.000	3.87	1.211	.874	3.193	3.414	4.55	.205
56	3.500	4.41	1.301	.964	3.693	3.936	5.09	.250
64	4.000	4.93	1.331	.994	4.202	4.448	5.61	.284

NOTES:

/1/ MATERIAL:

MATERIAL CODE LETTER A - TYPE 2024-T351, T851, T8510, OR T8511 ALUMINUM ALLOY PER AMS-QQ-A-225/6, AMS4120, AMS4339, AMS-QQ-A-200/3, AMS-WW-T-700/3, OR ASTM B211.

2. HEAT TREATMENT:

MATERIAL CODE LETTER A - IF THE RAW MATERIAL IS PROCURED IN THE SOLUTION TREATED CONDITION, AGE TO THE T851 OR T8511 CONDITION PER AMS2770 OR AMS2772.

3. FINISH:

MATERIAL CODE LETTER A - ANODIZE PER AMS2472, OR MIL-A-8625, TYPE II, CLASS 2, DYE RED, SIMILAR IN COLOR TO AMS-STD-595 NO. 11328 (LIGHTEST 12199 AND DARKEST 11136), DUPLEX SEALED, EXCEPT AREAS NOTED IN NOTE 7 TO BE CHEMICAL CONVERSION COATED PER MIL-DTL-5541, CLASS 3.

/4/ COUPLING BODIES SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED AND ASSEMBLED BY AN ACCREDITED MANUFACTURER LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS (QPL) LIST FOR PRI-QPL-AS7510. THE QPL IS AVAILABLE AT www.eAuditNet.com.

/5/ IDENTIFICATION: MARK PER AS478-15A OR AS478-30 USING .062 OR LARGER CHARACTERS. MARK AS A MINIMUM THE MANUFACTURER'S NAME, AND/OR CAGE CODE, COMPLETE "AS" NUMBER AND DATE OF MANUFACTURE IN ACCORDANCE WITH MIL-STD-130. SIZES 20 AND SMALLER MAY BE INDIVIDUALLY BAGGED WITH A TAG PER AS478-35D CONTAINING THE PREVIOUS INFORMATION.

/6/ OTHER DIMENSIONS AND TOLERANCES NOT SPECIFIED ARE CONTROLLED BY THE MANUFACTURER. THE MANUFACTURER IS RESPONSIBLE TO ENSURE COMPATIBILITY WITH THE ASSEMBLY AND COMPLIANCE WITH THE REQUIREMENTS OF THE PROCUREMENT SPECIFICATION.

/7/ FOR ALUMINUM ALLOY PARTS WITH BONDING SPRING CAVITIES, WHEN PART OF THE SUPPLIER'S DESIGN, THE CAVITY SHALL BE CONDUCTIVE AND SHALL BE COMPATIBLE WITH THE ANODIZE FINISH. BONDING SPRING MUST BE WITHIN THE MAXIMUM "B" DIMENSION.

/8/ THIS DIAMETER IS NOT A TRUE CIRCLE BECAUSE OF TOLERANCE BUILD-UP IN THE HINGE AND LATCH AREA.

/9/ THE ØF IS A MAXIMUM ENVELOPE DIMENSION BASED ON 2 TIMES THE TUBE CENTERLINE RADIUS OVER THE VISUAL TACTILE LATCH INDICATOR (VTLI).

10. THE CLAMSHELL ASSEMBLY SHALL PROVIDE AN ELECTROSTATIC BOND PATH BETWEEN THE CONNECTING FERRULES AND THE SLEEVE CONTACT AREA AS DEFINED IN AS7514.