

REV.
B

AS7511™

FEDERAL SUPPLY CLASS
4730

RATIONALE

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

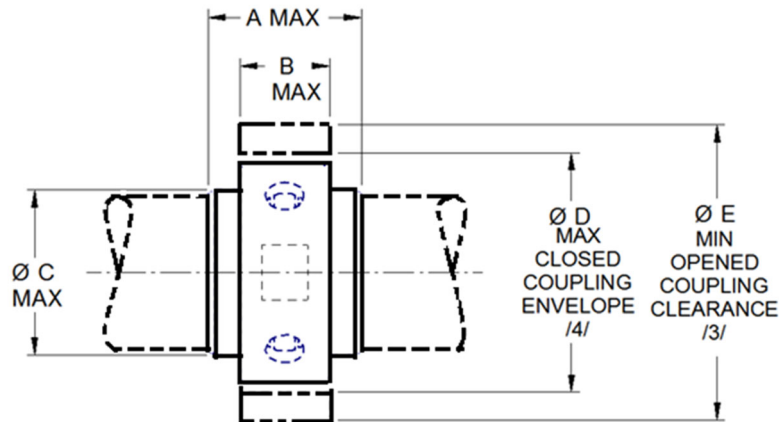


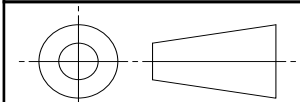
FIGURE 1 - ASSEMBLED COUPLING ENVELOPE

TABLE 1 - DIMENSIONS

BASIC NO. AS7511 SIZE CODE	NOM TUBE SIZE REF	A MAX (SWAGED FERRULES) /11/	A MAX (WELDED FERRULES) /11/	B MAX	ØC MAX	ØD MAX /4/	ØE MIN /3/	/5/ AS568 O-RING SIZE DASH NO. REF
08	.500	1.76	2.35	.895	.641	2.01	3.200	-015
10	.625	1.76	2.35	.895	.766	2.08	3.300	-017
12	.750	1.86	2.48	1.019	.906	2.23	3.400	-117
16	1.000	1.96	2.56	1.107	1.158	2.45	4.000	-215
20	1.250	1.96	2.56	1.107	1.408	2.70	4.200	-218
24	1.500	2.08	2.56	1.107	1.658	2.98	4.700	-222
28	1.750	2.08	2.56	1.107	1.908	3.24	4.900	-224
32	2.000	2.14	2.62	1.161	2.161	3.52	5.200	-226
36	2.250	2.20	2.62	1.161	2.411	3.77	5.500	-228
40	2.500	2.20	2.63	1.171	2.661	4.03	5.800	-230
48	3.000	2.20	2.67	1.211	3.161	4.55	6.300	-234
56	3.500	2.29	2.82	1.301	3.661	5.09	6.800	-238
64	4.000	2.69	2.91	1.331	4.170	5.61	7.800	-242

For more information on this standard, visit
<https://www.sae.org/standards/content/AS7511B/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: AS7510



AEROSPACE STANDARD

ASSEMBLED COUPLING ENVELOPE, THREADLESS -
FLEXIBLE, FIXED CAVITY, CURRENT CARRYING,
SELF BONDING, ENVELOPE DIMENSIONS

AS7511™
SHEET 1 OF 2

REV.
B

Documents

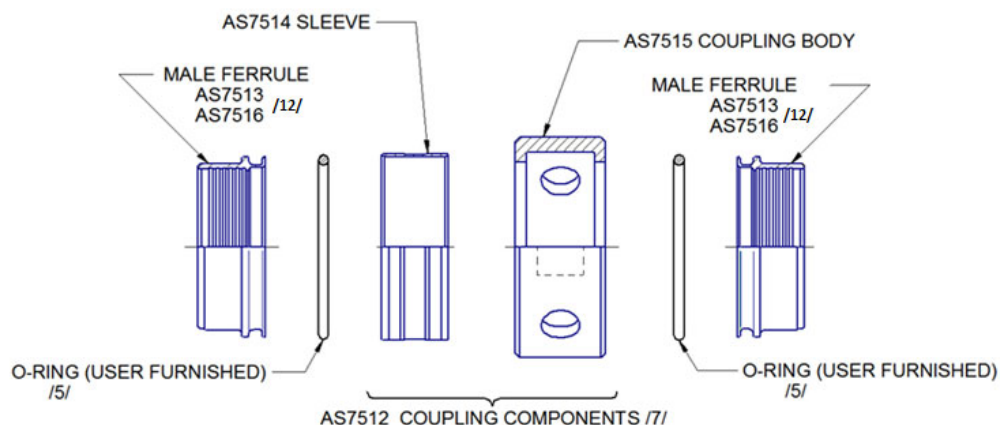


FIGURE 2

NOTES:

1. MATERIAL: REFER TO APPLICABLE AEROSPACE STANDARDS.
2. RATED OPERATING CHARACTERISTICS: REFER TO AS7510 PROCUREMENT SPECIFICATION.
- /3/ THIS DIMENSION IS THE MINIMUM CLEARANCE FOR INSTALLATION, ADDITIONAL CLEARANCE ENHANCES INSTALLATION EASE.
- /4/ THE ØD IS A MAXIMUM ENVELOPE DIMENSION BASED ON 2 TIMES THE TUBE CENTERLINE RADIUS OVER THE VISUAL TACTILE INDICATOR (VTI).
- /5/ O-RING SIZES ARE PER AS568 AND ARE NOT PROVIDED AS PART OF THE AS7512 ASSEMBLED COUPLING COMPONENTS. SEAL MATERIAL SHALL BE USER SELECTED ON THE BASIS OF FLUID COMPATIBILITY AND OPERATING REQUIREMENTS.
6. INTENDED USE: THE ASSEMBLED COUPLING IS DESIGNED FOR USE IN SYSTEMS WITH OPERATING PRESSURES AND CURRENT CARRYING CAPABILITIES AS DEFINED IN PROCUREMENT SPECIFICATION AS7510 WHERE ELECTROSTATIC BONDING IS NECESSARY TO ADDRESS ELECTRICAL CONDUCTIVITY AND LIGHTNING STRIKE CONCERNS.
- /7/ AS7514 SLEEVE AND AS7515 COUPLING BODY TOGETHER FORM AS7512 ASSEMBLED COUPLING COMPONENTS. AS7512 IS PROVIDED TO SIMPLIFY DRAWING CALLOUTS.
8. INTERPRETATION OF DRAWING PER AS4296.
9. DIMENSIONING AND TOLERANCE PER ASME Y14.5-2009.
10. REVISION INDICATOR: A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.
- /11/ A COMBINATION OF A SWAGED AND WELDED FLANGE, WILL HAVE A VALUE BETWEEN THE "A" DIMENSION SHOWN IN TABLE 1.
- /12/ MAY USE SWAGED OR WELDED FERRULE CONFIGURATIONS.

	AEROSPACE STANDARD	AS7511™ SHEET 2 OF 2	REV. B
	ASSEMBLED COUPLING ENVELOPE, THREADLESS - FLEXIBLE, FIXED CAVITY, CURRENT CARRYING, SELF BONDING, ENVELOPE DIMENSIONS		



Documents

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