FEDERAL SUPPLY CLASS
4730

RATIONALE

THIS TECHNICAL REPORT IS BEING STABILIZED BECAUSE IT COVERS TECHNOLOGY, PRODUCTS, OR PROCESSES WHICH ARE MATURE AND NOT LIKELY TO CHANGE IN THE FORESEEABLE FUTURE.

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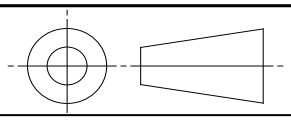
THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY SAE G-3, AEROSPACE COUPLINGS, FITTINGS, HOSE, TUBING ASSEMBLIES COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.

ISSUED 1982-05 REVISED 2006-08 REAFFIRMED 2013-01 STABILIZED 2024-07

For more information on this standard, visit
https://www.sae.org/standards/content/AS1717E/

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: AS1710 /3/

SAE INTERNATIONAL

AEROSPACE STANDARD

RETAINER, COUPLING, FLEXIBLE, VARIABLE CAVITY, THREADED FERRULE TYPE TUBE ENDS

AS1717™

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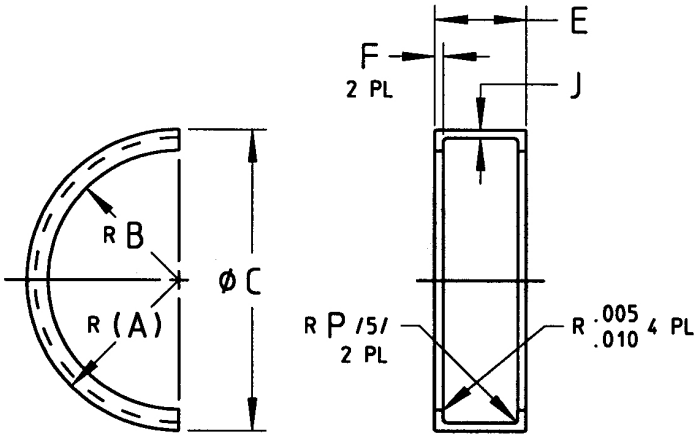

FIGURE 1 - CONFIGURATION FOR SIZES 08 AND 10 (HALF RETAINER SHOWN)

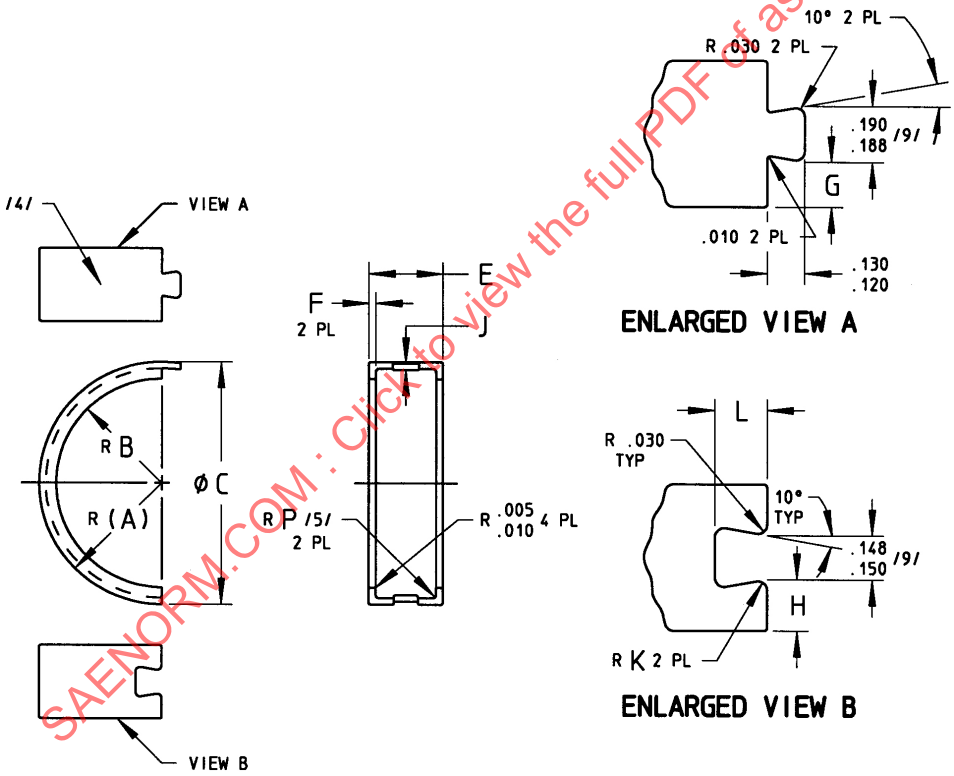

FIGURE 2 - CONFIGURATION FOR SIZES 12 THROUGH 72 (HALF RETAINER)

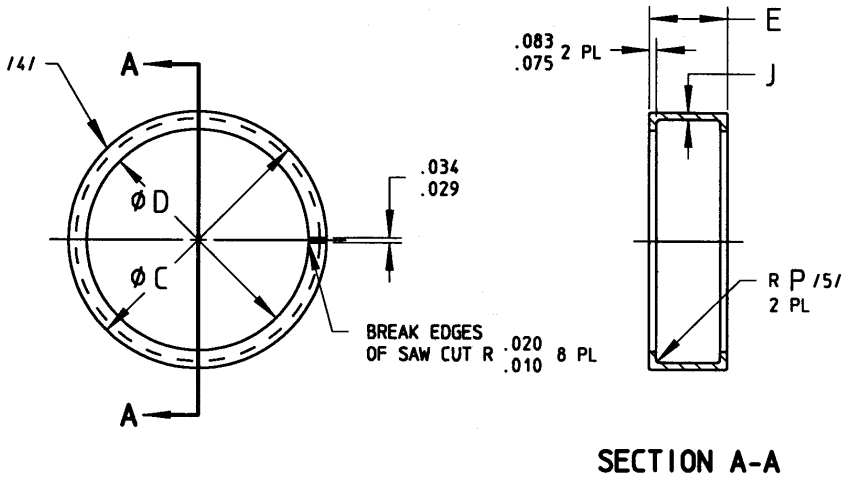

FIGURE 3 - CONFIGURATION FOR SIZES 80 AND 88 (FULL RETAINER)

TABLE A1 - COUPLING RETAINER DIMENSIONS

BASIC NO. AS1717 SIZE CODE	(TUBE SIZE)	(A)	B +.003/-.001	C ±.004	D +.006/-.000	E +.000/-.005	F +.003/-.005	G +.002/-.000	H +.000/-.002
-08	.500	.398	.323	.797	-	.415	.040	-	-
-10	.625	.461	.385	.922	-	.415	.040	-	-
-12	.750	.566	.456	1.132	-	.435	.045	.121	.143
-16	1.000	.696	.581	1.392	-	.495	.045	.151	.173
-20	1.250	.821	.706	1.641	-	.495	.045	.151	.173
-24	1.500	1.005	.831	2.010	-	.535	.045	.171	.193
-28	1.750	1.130	.956	2.260	-	.535	.045	.171	.193
-32	2.000	1.260	1.083	2.520	-	.535	.061	.171	.193
-36	2.250	1.385	1.208	2.770	-	.535	.061	.171	.193
-40	2.500	1.510	1.333	3.020	-	.535	.061	.171	.193
-44	2.750	1.635	1.458	3.270	-	.535	.061	.171	.193
-48	3.000	1.752	1.583	3.503	-	.535	.061	.171	.193
-56	3.500	2.002	1.833	4.003	-	.607	.061	.207	.229
-64	4.000	2.256	2.087	4.512	-	.633	.061	.220	.242
-72	4.500	2.565	2.338	5.129	-	.627	.061	.217	.239
-80	5.000	-	-	5.636	5.188	.837	-	-	-
-88	5.500	-	-	6.136	5.688	.847	-	-	-

TABLE 1B - COUPLING RETAINER DIMENSIONS AND WEIGHTS

BASIC NO. AS1717 SIZE CODE	J /10/	K RAD	K TOL	L	P MIN /5/	WEIGHT LB/EA APPROX. REF.
-08	.032	-	-	-	.020	.002
-10	.032	-	-	-	.020	.002
-12	.036	.031	±.015	.175	.035	.004
-16	.044	.031	±.015	.175	.025	.006
-20	.044	.031	±.015	.175	.025	.007
-24	.063	.056	±.015/-.030	.222	.050	.013
-28	.063	.056	±.015/-.030	.222	.050	.014
-32	.066	.056	±.015/-.030	.222	.045	.018
-36	.066	.056	±.015/-.030	.222	.040	.020
-40	.066	.056	±.015/-.030	.222	.040	.021
-44	.066	.056	±.015/-.030	.222	.040	.023
-48	.072	.056	±.015/-.030	.222	.040	.026
-56	.072	.056	±.015/-.030	.222	.025	.033
-64	.072	.056	±.015/-.030	.222	.025	.038
-72	.074	.056	±.015/-.030	.222	.075	.049
-80	.086	-	-	-	.060	.158
-88	.086	-	-	-	.060	.174

NOTES:

1. MATERIAL: ALUMINUM ALLOY 2024-T6, 2024-T851, 2024-T8510 OR 2024-T8511 PER AMS-QQ-A-225/6, AMS-QQ-A-200/3 OR ASTM B 211.

2. FINISH: ANODIZE PER MIL-A-8625, TYPE II, CLASS 1 OR CLASS 2, COLOR OPTIONAL.

/3/ RETAINERS SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED DISTRIBUTOR LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST FOR PRI-QPL-AS1710 FOR THIS STANDARD. THE QPL IS AVAILABLE AT www.eauditnet.com.

/4/ IDENTIFICATION PER AS478 METHOD 30 INCLUDING THE MANUFACTURER'S NAME, TRADEMARK, OR CAGE CODE, COMPLETE "AS" PART NUMBER, AND DATE OF MANUFACTURE IN QUARTERS (3Q95 = THIRD QUARTERS 1995). SIZES -12 AND SMALLER MAY BE INDIVIDUALLY PLACED IN A PLASTIC BAG WITH A TAG CONTAINING THIS INFORMATION.

/5/ THE MANUFACTURER WILL SPECIFY AND CONTROL THE MAXIMUM RADIUS AND WILL BE RESPONSIBLE TO ASSURE COMPATIBILITY WITH THE ASSEMBLY AND COMPLIANCE WITH THE PERFORMANCE REQUIREMENTS OF AS1710.

6. SURFACE TEXTURE: SYMBOLS PER ASME Y 14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACE TO BE 125 μin Ra Max.