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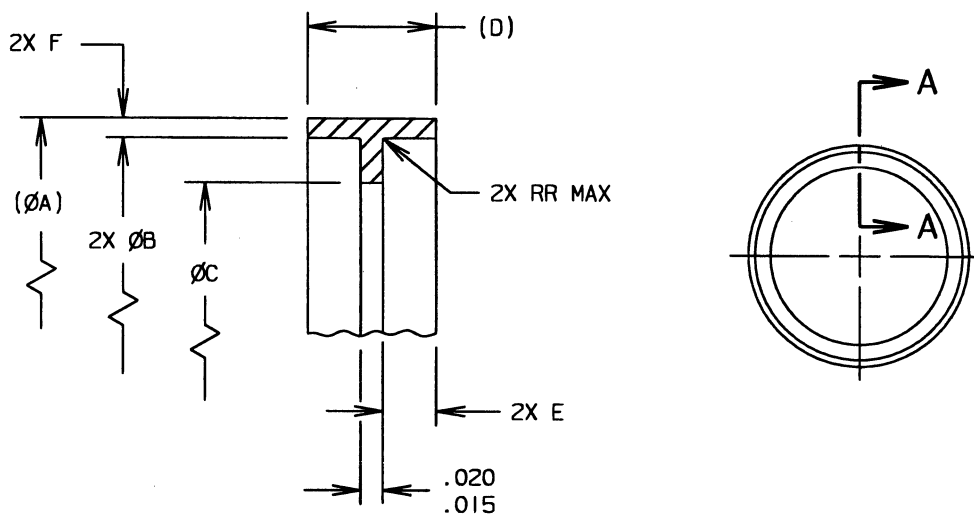
REV.
A

AS4973

FEDERAL SUPPLY CLASS
4730

RATIONALE

AS4973A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.



SECTION A - A

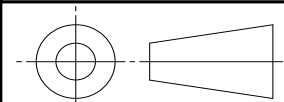
FIGURE 1 - RING, WELD

TABLE 1A - DIMENSIONS

BASIC NO. AS4973 /16/ SIZE AND TUBE WALL CODES	(RANGE OF NOMINAL TUBE WALLS) /6/	(NOMINAL TUBE SIZE)	A	B +.002 /7/	C /7/	D
04-022	.019-.022	.250	.284	.256	.212	.062
06-028	.023-.028	.375	.411	.383	.335	.068
06-032	.029-.032	.375	.411	.383	.311	.068
08-043	.033-.043	.500	.540	.508	.434	.074
10-055	.044-.055	.625	.666	.634	.537	.104
12-055	.044-.055	.750	.793	.759	.662	.106
12-065	.056-.065	.750	.793	.759	.638	.106
16-078	.066-.078	1.000	1.044	1.010	.868	.110
16-089	.079-.089	1.000	1.044	1.010	.842	.110
20-055	.044-.055	1.250	1.298	1.260	1.172	.110

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on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS4973A>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: /4/ AS4510



AEROSPACE STANDARD

(R) RING, WELD

AS4973
SHEET 1 OF 3

REV.
A

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TABLE 1B - DIMENSIONS AND WEIGHTS

BASIC NO. AS4973 /16/ SIZE AND TUBE WALL CODES	RECOMMENDED MAXIMUM PRESURE			LB/100 APPROX CRES	LB/100 APPROX TI
	E	F ±.002	R		
04-022	.022	.014	.005	5000	.0294
06-028	.025	.014	.005	4000	.0479
06-032	.025	.014	.005	5000	.0541
08-043	.028	.016	.005	5000	.0839
10-055	.043	.016	.006	5000	.143
12-055	.044	.017	.006	4000	.182
12-065	.044	.017	.006	5000	.194
16-078	.046	.017	.007	4000	.281
16-089	.046	.017	.007	5000	.298
20-055	.046	.019	.007	2000	.395

NOTES:

- /1/ MATERIAL:
- CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS 4928.
 - CODE LETTER Z - TYPE 21-6-9 CORROSION RESISTANT STEEL BAR PER AMS 5656.
2. HEAT TREATMENT: ALL MATERIAL CODES - NONE.
3. FINISH: ALL MATERIAL CODES - NONE.
- /4/ PROCUREMENT SPECIFICATION: AS4510. THIS PART SHALL BE QUALIFIED TO THE PROCUREMENT SPECIFICATION IN A COMPLETE ASSEMBLY. USERS OF THIS STANDARD ARE ADVISED TO CONTROL APPROVAL(S) BY STANDARD PAGE SUPPLEMENT SHEET OR SIMILAR MEANS.
5. IDENTIFICATION: ON PACKAGES ONLY; SEE PROCUREMENT SPECIFICATION.
- /6/ THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES AS SHOWN IN THE TABLE; THE MINIMUM WALL THICKNESS OF TUBING WELDED WILL BE THE VALUE SHOWN FOR THE APPROPRIATE OPERATING PRESSURES IN ARP4698.
- /7/ DIMENSIONS "B" AND "C" SHALL NOT BE CONFIRMED IN THE FREE STATE CONDITION. FUNCTIONALITY AND FIT MAY BE VERIFIED BY INSTALLING THE RING ON THE TUBING SPECIFIED IN THE PROCUREMENT SPECIFICATION. AN OUT-OF-ROUND CONDITION WHICH DOES NOT PREVENT INSTALLATION OF THE RING SHALL NOT BE CAUSE FOR REJECTION.
8. THE CHANGE BAR (|) 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.
9. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.
- /10/ THE PREVIOUS SIZE CODE 06-035 WAS IN ERROR AND IS REPLACED BY 06-032 WHICH MAY BE USED IN PLACE OF 06-035.
11. INTERPRETATION OF DRAWING PER ARP44296.
12. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 µin Ra.
13. BREAK EDGES .003 MAXIMUM.
14. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994.
15. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ±.005, ANGULAR DIMENSIONS ±0°30'.

	AEROSPACE STANDARD		AS4973 SHEET 2 OF 2	REV. A
	(R) RING, WELD			


Documents

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