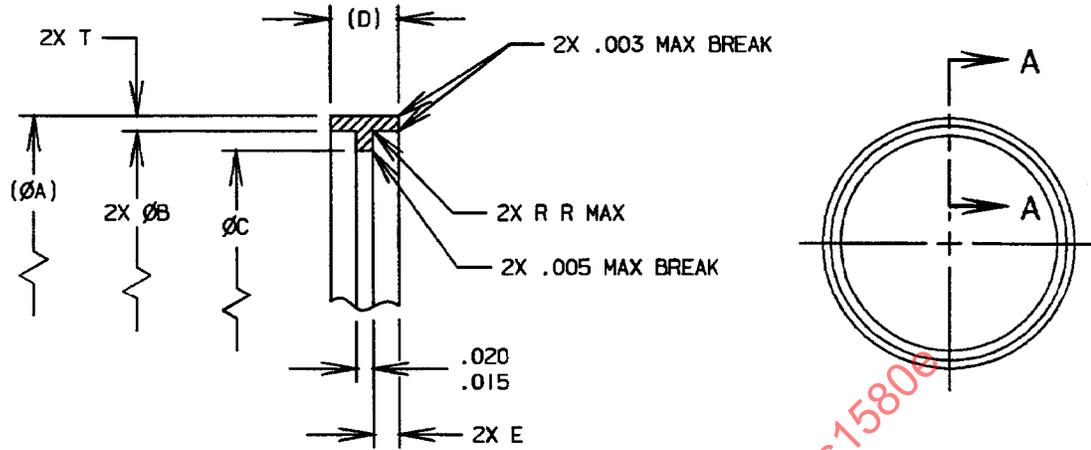


REV.
E

AS1580

RATIONALE

REVISE ACTIVATION DATES FOR PRI-QPL-AS1576.



SECTION A-A
ENLARGED

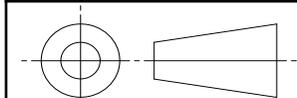
FIGURE 1 - RING

TABLE 1 - DIMENSIONS AND WEIGHTS

BASIC NO. AS1580 /16/ SIZE CODE	(NOMINAL TUBE SIZE)	(NOMINAL TUBE WALL)	A	B ±.002 /7/	C /7/	D	E	R	T ±.002	LB/100 APPROX REF
03	.188	.016	.222	.194	.167	.058	.020	.005	.014	.0117
04	.250	.016	.284	.256	.229	.058	.020	.005	.014	.0153
05	.312	.020	.342	.319	.285	.064	.023	.005	.014	.0184
06	.375	.020	.411	.383	.348	.064	.023	.005	.014	.0259
08	.500	.026	.542	.508	.465	.074	.028	.005	.017	.0417
10	.625	.033	.668	.634	.581	.092	.037	.006	.017	.0719
12	.750	.039	.795	.759	.698	.094	.038	.006	.018	.0942
16	1.000	.052	1.046	1.010	.931	.098	.040	.007	.018	.137
20	1.250	.065	1.298	1.260	1.163	.104	.043	.007	.019	.197
24	1.500	.074	1.552	1.510	1.403	.108	.045	.007	.021	.266

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS1580E>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: AS1576 /6/



AEROSPACE STANDARD

RING, WELD
3000 PSI, TITANIUM

AS1580
SHEET 1 OF 3

REV.
E

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

NOTES:

- /1/ MATERIAL: CODE LETTER T - TYPE 6AL-4V TITANIUM ALLOY BAR PER AMS4928.
- 2. HEAT TREATMENT: NONE.
- 3. FINISH: NONE.
- /4/ CLEANING:
 - a. NO SUFFIX CODE LETTER IN PART NUMBER - CLEAN BY ANY SUITABLE METHOD PER PROCUREMENT SPECIFICATION.
 - b. SUFFIX CODE LETTER "C" IN PART NUMBER - HOT ALKALINE CLEAN PER PROCUREMENT SPECIFICATION.
 - c. SUFFIX CODE LETTER "E" IN PART NUMBER - NITRIC-HYDROFLUORIC ACID ETCH PER PROCUREMENT SPECIFICATION.
- 5. PACKAGING: PER PROCUREMENT SPECIFICATION.
- /6/ PROCUREMENT SPECIFICATION: AS1576 UNLESS OTHERWISE SPECIFIED ON THIS STANDARD. PRODUCT SUPPLIED TO THIS SPECIFICATION SHALL BE MANUFACTURED BY AN ACCREDITED MANUFACTURER AS LISTED IN THE PERFORMANCE REVIEW INSTITUTE (PRI) QUALIFIED PRODUCTS LIST PRI-QPL-AS1576 FOR THIS STANDARD. SEE www.eAuditNet.com FOR CURRENT QPL ONLINE.

THIS QPL REQUIREMENT SHALL BE IN EFFECT FOR PURCHASE ORDERS PLACED ON OR AFTER **JULY 1, 2014**. SUPPLIERS SEEKING LISTING ON THE INITIAL QPL MUST APPLY TO PRI FOR APPROVAL NO LATER THAN **JANUARY 1, 2014**. UNTIL THE QPL IS IN EFFECT, USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVALS. TRANSITION TO PRI-QPL SHALL BE COMPLETED BY JULY 1, 2014.
- /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. IDENTIFICATION ON PACKAGES ONLY: SEE PROCUREMENT SPECIFICATION.
- 9. THIS PART IS DESIGNED FOR USE IN SYSTEMS WITH MAXIMUM OPERATING PRESSURES OF 3000 PSI WHEN ORBITAL ARC WELDED TO TITANIUM ALLOY TUBING.
- 10. 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. INTERPRETATION OF DRAWING PER ARP4296.
- 12. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICRINCHES Ra.
- 13. BREAK EDGES AS SHOWN.
- 14. DIMENSIONING AND TOLERANCING: ASME Y14.5M-1994
- 15. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS ± 0.004 .

	AEROSPACE STANDARD	AS1580 SHEET 2 OF 3	REV. E
	RING, WELD 3000 PSI, TITANIUM		