

AS6369™/2

## RATIONALE

THIS AEROSPACE STANDARD IS A DEPARTURE FROM THE PRIOR QUALIFICATION PRACTICES FOR THE V-BAND COUPLING ASSEMBLIES, AS4751. PRIOR PRACTICE SOUGHT TO VALIDATE THIS TYPE OF ASSEMBLED COUPLING DESIGN BY CONDUCTING PROOF PRESSURE TESTING BUT EXCEEDED ALLOWABLE LEAKAGE. AS6369 IS TO REPLACE AS4751 FOR FUTURE DESIGN.

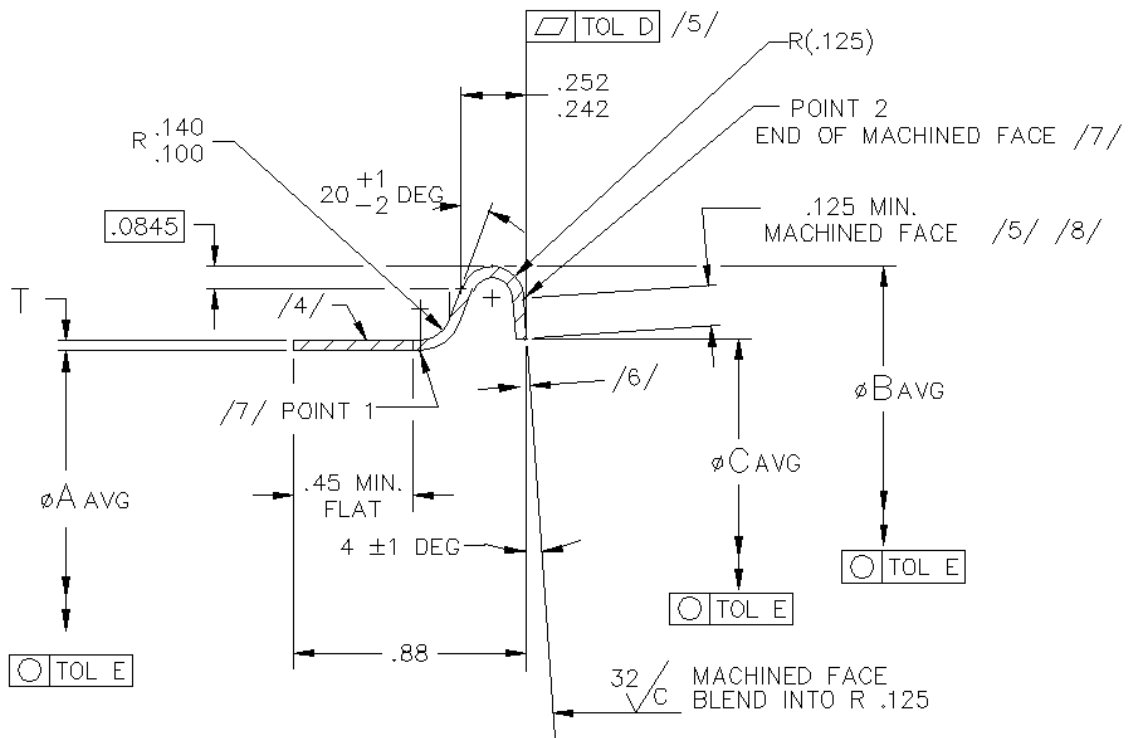
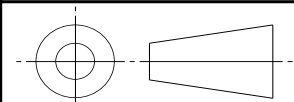


FIGURE 1 - FLANGE

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<http://standards.sae.org/AS6369/2>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: AS6369 /2/, /3/



## AEROSPACE STANDARD

FLANGE, SHEET METAL, WIDE

AS6369™/2  
SHEET 1 OF 3

Documents

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**TABLE 1 - DIMENSIONS AND WEIGHTS**

| BASIC NO.<br>AS6369/2 /12/<br>SIZE CODE | NOMINAL<br>TUBE<br>OD | ØA +.015/ -<br>.000 | ØB     | ØC     | TOL<br>D | TOL<br>E | T THICKNESS<br>±.005 | WEIGHT<br>(REF)<br>LBS/EA |
|-----------------------------------------|-----------------------|---------------------|--------|--------|----------|----------|----------------------|---------------------------|
| 100                                     | 1.000                 | 1.010               | 1.552  | 1.090  | .003     | .010     | .035                 | .04                       |
| 125                                     | 1.250                 | 1.260               | 1.802  | 1.340  | .003     | .010     | .035                 | .05                       |
| 150                                     | 1.500                 | 1.510               | 2.122  | 1.590  | .003     | .010     | .035                 | .06                       |
| 175                                     | 1.750                 | 1.760               | 2.372  | 1.840  | .003     | .010     | .035                 | .07                       |
| 200                                     | 2.000                 | 2.010               | 2.622  | 2.090  | .003     | .010     | .035                 | .08                       |
| 225                                     | 2.250                 | 2.260               | 2.886  | 2.340  | .004     | .010     | .040                 | .11                       |
| 250                                     | 2.500                 | 2.510               | 3.136  | 2.590  | .004     | .010     | .040                 | .12                       |
| 275                                     | 2.750                 | 2.760               | 3.386  | 2.850  | .004     | .011     | .040                 | .13                       |
| 300                                     | 3.000                 | 3.010               | 3.636  | 3.090  | .004     | .012     | .040                 | .14                       |
| 350                                     | 3.500                 | 3.510               | 4.141  | 3.590  | .005     | .014     | .040                 | .17                       |
| 400                                     | 4.000                 | 4.010               | 4.641  | 4.090  | .005     | .016     | .040                 | .19                       |
| 450                                     | 4.500                 | 4.510               | 5.141  | 4.590  | .006     | .018     | .040                 | .21                       |
| 500                                     | 5.000                 | 5.010               | 5.641  | 5.090  | .006     | .020     | .040                 | .23                       |
| 550                                     | 5.500                 | 5.510               | 6.141  | 5.590  | .007     | .022     | .040                 | .25                       |
| 600                                     | 6.000                 | 6.010               | 6.641  | 6.090  | .007     | .024     | .040                 | .28                       |
| 650                                     | 6.500                 | 6.510               | 7.141  | 6.590  | .008     | .026     | .050                 | .35                       |
| 700                                     | 7.000                 | 7.010               | 7.641  | 7.090  | .008     | .028     | .050                 | .37                       |
| 750                                     | 7.500                 | 7.510               | 8.141  | 7.590  | .009     | .030     | .050                 | .40                       |
| 800                                     | 8.000                 | 8.010               | 8.641  | 8.090  | .009     | .032     | .050                 | .43                       |
| 850                                     | 8.500                 | 8.510               | 9.141  | 8.590  | .010     | .034     | .050                 | .45                       |
| 900                                     | 9.000                 | 9.010               | 9.641  | 9.090  | .011     | .036     | .050                 | .48                       |
| 1000                                    | 10.000                | 10.010              | 10.641 | 10.090 | .012     | .038     | .050                 | .53                       |

**NOTES**

- 1 MATERIAL: 321 CRES PER AMS5510
- /2/ QUALIFICATION: PARTS SHALL BE QUALIFIED IN A COMPLETE COUPLING ASSEMBLY IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AS6369. USERS OF THIS STANDARD ARE ADVISED TO CONTROL SOURCE APPROVAL(S) BY STANDARD PAGE SUPPLEMENT OR SIMILAR MEANS.
- /3/ THE AS6369/2-XXX FLANGE WHEN INSTALLED WITH AS6369/1-XXX COUPLING ASSEMBLY; OR AS6369/1-XXX COUPLING AND AS6369/3 FLANGE SHALL MEET THE REQUIREMENTS OF PROCUREMENT SPECIFICATION AS6369.
- /4/ IDENTIFICATION MARKING: MARK AS PART NUMBER AS6369/2-XXX, MANUFACTURER'S IDENTIFICATION, AND DATE OF MANUFACTURE PER AS478-7A2.
- /5/ ON UNASSEMBLED FINISHED FLANGES, THE SEALING FACE SHALL BE FLAT WITHIN .001 INCH PER INCH FOR TUBE OUTSIDE DIAMETER 1.00 THROUGH 2.50, AND .002 INCH PER INCH FOR ALL TUBE OUTSIDE DIAMETERS ABOVE 2.50, AND SHALL NOT EXCEED "D" WHEN CHECKED AGAINST A SURFACE PLATE WITH A 15 LB WEIGHT.
- /6/ MINIMUM ALLOWABLE THICKNESS OF MATERIAL IN THIS AREA SHALL BE .015 INCH FOR TUBE OD 1.00 AND 1.25, AND .020 FOR TUBE OD 1.50 AND ABOVE. THE SEALING FACE MAY HAVE A UNIFORM TAPER PROVIDED THE THINNEST SECTION OCCURS AT THE MINOR DIAMETER OF THE LIP AND THE MAXIMUM THICKNESS IS BLENDED INTO THE NORMAL MATERIAL THICKNESS.

|                                                                                     |                           |  |                           |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------|--|---------------------------|---------------------------------------------------------------------------------------|
|  | AEROSPACE STANDARD        |  | AS6369™/2<br>SHEET 2 OF 3 |  |
|                                                                                     | FLANGE, SHEET METAL, WIDE |  |                           |                                                                                       |