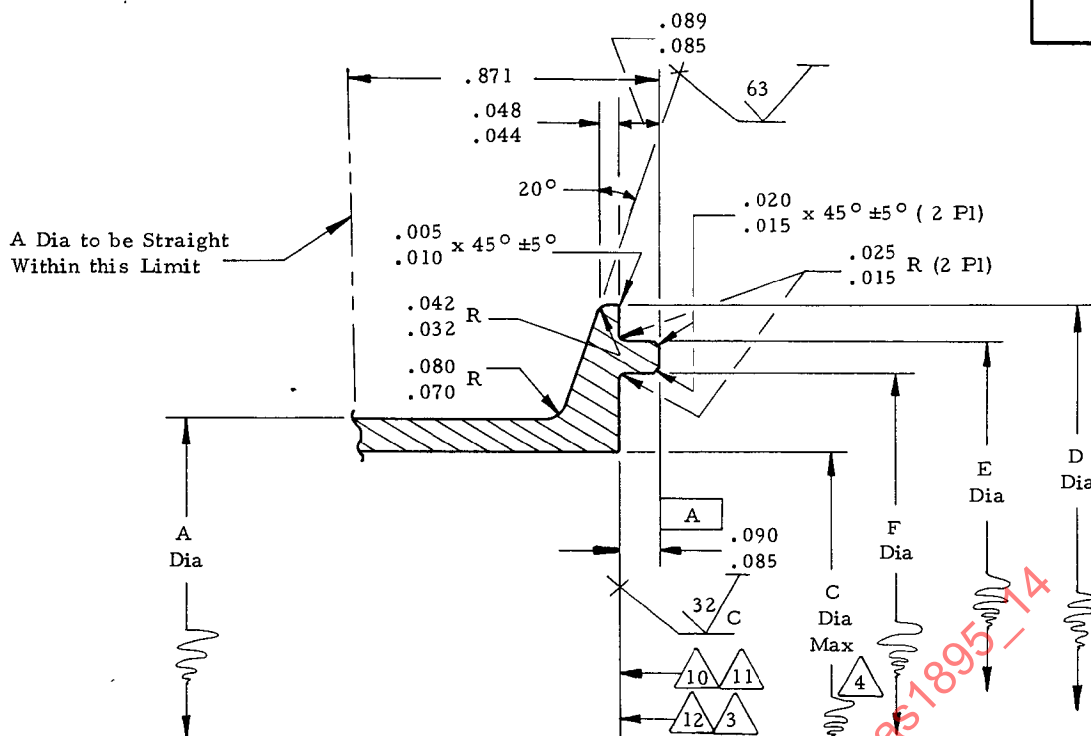


THIS IS A DESIGN STANDARD. DO NOT USE AS A PART NUMBER.

AS 1895 / 14



| PART<br>NUMBER | NOM<br>TUBE<br>SIZE | A<br>DIA<br>+.000<br>-.005 | C<br>DIA<br>MAX<br>4 | D<br>DIA<br>±.005 | E<br>DIA<br>+.000<br>-.005 | F<br>DIA<br>+.003<br>-.000 |
|----------------|---------------------|----------------------------|----------------------|-------------------|----------------------------|----------------------------|
| AS1895/14-100  | 1.00                | 1.069                      | .905                 | 1.510             | 1.365                      | 1.250                      |
| AS1895/14-125  | 1.25                | 1.319                      | 1.155                | 1.760             | 1.615                      | 1.500                      |
| AS1895/14-150  | 1.50                | 1.569                      | 1.405                | 2.010             | 1.865                      | 1.750                      |
| AS1895/14-175  | 1.75                | 1.819                      | 1.655                | 2.260             | 2.115                      | 2.000                      |
| AS1895/14-200  | 2.00                | 2.069                      | 1.905                | 2.510             | 2.365                      | 2.250                      |
| AS1895/14-225  | 2.25                | 2.319                      | 2.155                | 2.760             | 2.615                      | 2.500                      |
| AS1895/14-250  | 2.50                | 2.569                      | 2.405                | 3.010             | 2.865                      | 2.750                      |
| AS1895/14-275  | 2.75                | 2.819                      | 2.655                | 3.260             | 3.115                      | 3.000                      |
| AS1895/14-300  | 3.00                | 3.069                      | 2.905                | 3.510             | 3.365                      | 3.250                      |
| AS1895/14-325  | 3.25                | 3.319                      | 3.155                | 3.760             | 3.615                      | 3.500                      |
| AS1895/14-350  | 3.50                | 3.569                      | 3.405                | 4.010             | 3.865                      | 3.750                      |
| AS1895/14-400  | 4.00                | 4.069                      | 3.905                | 4.510             | 4.365                      | 4.250                      |
| AS1895/14-450  | 4.50                | 4.569                      | 4.405                | 5.010             | 4.865                      | 4.750                      |
| AS1895/14-500  | 5.00                | 5.069                      | 4.905                | 5.510             | 5.365                      | 5.250                      |
| AS1895/14-550  | 5.50                | 5.569                      | 5.405                | 6.010             | 5.865                      | 5.750                      |
| AS1895/14-600  | 6.00                | 6.069                      | 5.905                | 6.510             | 6.365                      | 6.250                      |

**REVISED**

ISSUED 12-85

**CUSTODIAN:** SAE G-3/G-3A

**PROCUREMENT:** AS1895



400 Commonwealth Drive  
Warrendale, PA 15096

## AEROSPACE STANDARD

FLANGE END, MALE TYPE II  
(LOW PROFILE) DESIGN STANDARD

**AS 1895/14**

SHEET 1 OF 3

## NOTES:

## 1. Construction and Performance:

This flange end, mated mated with flange end per AS1895/15-XXX, flange P/N AS1895/6-XXX, flange P/N AS1895/9-XXX, seal P/N AS1895/7-XXX and coupling P/N AS1895/4-XXX, shall meet all the requirements of specification AS1895.

## 2. Material:

Dash Numbers 150 through 350 - Inconel 625 in accordance with AMS 5666 or AMS 5599.  
Dash Numbers 400 to 600 - Inconel 718 in accordance with AMS 5596 or AMS 5662 in the precipitate hardened condition.

3

Sealing surface shall be free of scratches and surface finish shall be circular and concentric to bore diameter.

4

This diameter may be reduced in order to decrease out-of-round deformation of flange ends produced by coupling loading, if desired, or to compensate for casting factors.

## 5. Finish:

Descaled. Free of surface contaminations.

## 6. Inspection Requirement - Manufacturer:

Penetrant inspect all flange ends in accordance with MIL-I-6866.

## 7. Workmanship:

This flange end shall be free of sharp edges and burrs and shall be capable of mating under all tolerance conditions of the component parts.

## 8. Tolerances:

.XXX =  $\pm 0.10$ , .XX =  $\pm 0.03$ , angles =  $\pm 1/2^\circ$ .

## 9. Concentricity:

All diameters shall be concentric to bore diameter within .004 TIR.

10

## Perpendicularity:

Noted surface to be perpendicular to  $\varnothing$  within .004 TIR.

11

## Flatness:

Noted surface to be flat within .003 TIR.

12

## Parallelism:

Noted surfaces to be parallel with surface marked A within .003 TIR.

13. All surfaces to be  $\sqrt{125}$  except as noted.

## AEROSPACE STANDARD

FLANGE END, MALE, TYPE II  
(LOW PROFILE) DESIGN STANDARD

AS 1895/14

SHEET 2 OF 3

REVISED

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