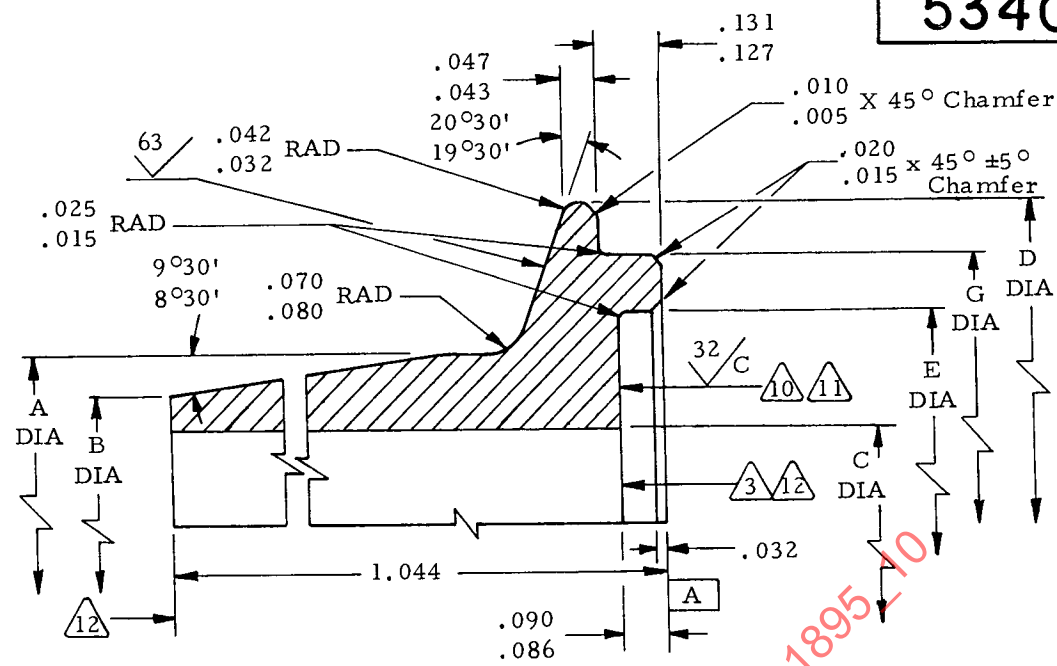


SAE Technical Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.



PART NUMBER	NOM TUBE SIZE	A DIA +.000 -.005	B DIA ±.005	C DIA +.005 -.000	D DIA ±.005	E DIA +.003 -.000	G DIA +.000 -.005
AS1895/10-150	1.50	1.687	1.507	1.450	2.250	1.750	2.064
AS1895/10-175	1.75	1.937	1.757	1.700	2.500	2.000	2.314
AS1895/10-200	2.00	2.187	2.007	1.950	2.750	2.250	2.564
AS1895/10-225	2.25	2.437	2.257	2.200	3.000	2.500	2.814
AS1895/10-250	2.50	2.687	2.507	2.440	3.250	2.750	3.064
AS1895/10-275	2.75	2.937	2.757	2.680	3.500	3.000	3.314
AS1895/10-300	3.00	3.187	3.007	2.920	3.750	3.250	3.564
AS1895/10-325	3.25	3.437	3.257	3.170	4.000	3.500	3.814
AS1895/10-350	3.50	3.687	3.507	3.410	4.250	3.750	4.064
AS1895/10-400	4.00	4.187	4.007	3.900	4.750	4.250	4.564
AS1895/10-450	4.50	4.687	4.507	4.380	5.250	4.750	5.064
AS1895/10-500	5.00	5.187	5.007	4.870	5.750	5.250	5.564
AS1895/10-550	5.50	5.687	5.507	5.360	6.250	5.750	6.064
AS1895/10-600	6.00	6.187	6.007	5.850	6.750	6.250	6.564

CUSTODIAN: SAE G-3A/G-3      PROCUREMENT SPECIFICATION AS1895

**SAE** The Engineering Resource For Advancing Mobility  
400 Commonwealth Drive  
Warrendale, PA 15096

**AEROSPACE STANDARD**  
FLANGE, MALE, BUTT WELD,  
TYPE I (STANDARD PROFILE)

**AS1895/10**  
SHEET 1 OF 3

## NOTES:

## 1. Construction and Performance:

This flange, when mated with flange end per AS1895/13-XXX, flange P/N AS1895/3-XXX, flange P/N AS1895/11-XXX, seal P/N AS1895/7-XXX and coupling P/N AS1895/1-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.



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

## 4. Do not use unassigned part codes.

## 5. Finish:

Descaled. Free of surface contamination and ready for fusion butt welding.

## 6. Inspection Requirement - Manufacturer:

Penetrant inspect all flanges in accordance with MIL-I-6866.

## 7. Workmanship:

The flanges 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.



## Perpendicularity:

Noted surface to be perpendicular to C dia within .004 TIR.



## Flatness:

Noted surface to be flat within .003 TIR.



## Parallelism:

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

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

## 14. Marking:

Mark packaging with supplier identification and AS1895/10-XXX part number.

CUSTODIAN: SAE G-3/G-3A

PROCUREMENT SPECIFICATION:

AS1895

## AEROSPACE STANDARD

FLANGE, MALE, BUTT WELD,  
TYPE I (STANDARD PROFILE)

AS 1895/10

SHEET 2 OF 3