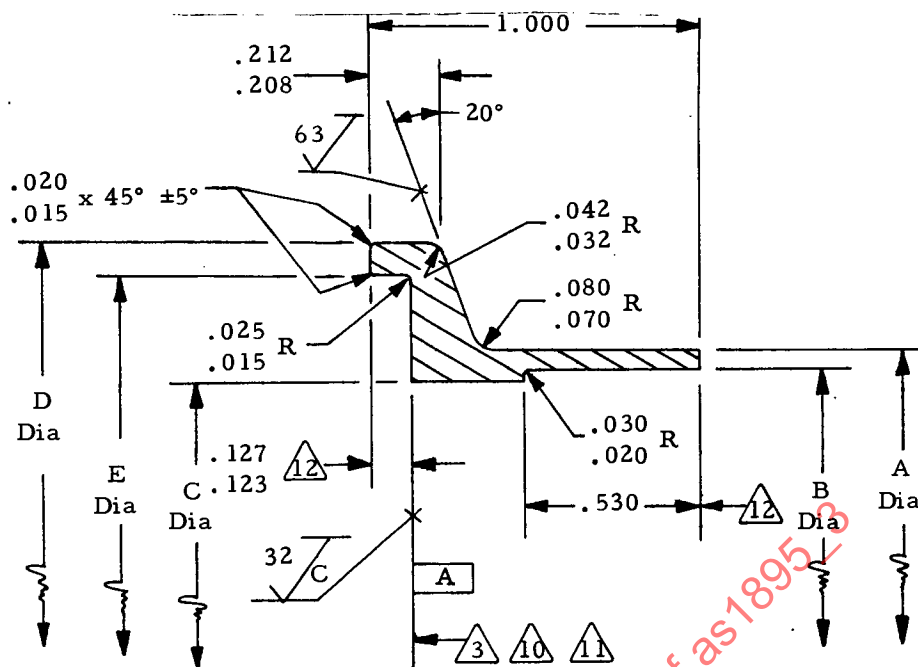


SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.



PART NUMBER	NOM TUBE SIZE	A DIA +.000 -.005	B DIA +.005 -.000	C DIA +.005 -.000	D DIA ±.005	E DIA +.005 -.000
AS1895/3-150	1.50	1.600	1.505	1.450	2.250	2.085
AS1895/3-175	1.75	1.850	1.755	1.700	2.500	2.335
AS1895/3-200	2.00	2.100	2.005	1.950	2.750	2.585
AS1895/3-225	2.25	2.350	2.255	2.200	3.000	2.835
AS1895/3-250	2.50	2.600	2.505	2.440	3.250	3.085
AS1895/3-275	2.75	2.850	2.755	2.680	3.500	3.335
AS1895/3-300	3.00	3.100	3.005	2.920	3.750	3.585
AS1895/3-325	3.25	3.350	3.255	3.170	4.000	3.835
AS1895/3-350	3.50	3.687	3.505	3.410	4.250	4.085
AS1895/3-400	4.00	4.187	4.005	3.900	4.750	4.585
AS1895/3-450	4.50	4.687	4.505	4.380	5.250	5.085
AS1895/3-500	5.00	5.187	5.005	4.870	5.750	5.585
AS1895/3-550	5.50	5.687	5.505	5.360	6.250	6.085
AS1895/3-600	6.00	6.187	6.005	5.850	6.750	6.585

ISSUED 12-85 REVISED

SAE The Engineering
Resource For
Advancing Mobility

FLANGE, FEMALE, SEAM WELD,
TYPE 1 (STANDARD PROFILE)

AS 1895/3

SHEET 1 OF 3

NOTES:

1. Construction and Performance:

This flange, when mated with flange end per AS1895/12-XXX, flange P/N AS1895/2-XXX, flange P/N AS1895/10-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.

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 = ± 0.10 , .XX = ± 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 AS1895/3-XXX part number.

15. Flatness Limit After Welding is .005 TIR. Exception:

For sizes 500 thru 600 (5.00-6.00 Inch) an increase to .007 TIR is acceptable.

CUSTODIAN: SAE G-3/G-3A

PROCUREMENT SPECIFICATION: AS1895

AEROSPACE STANDARD

FLANGE, FEMALE, SEAM WELD,
TYPE 1 (STANDARD PROFILE)

AS 1895 / 3

SHEET 2 OF 3