

REV.
E

AS1895™/10

FEDERAL SUPPLY CLASS
5340

RATIONALE

CORRECT TYPO FOR DIM B. ALL DIMENSIONS FOR DIM B SHOULD END WITH 7, NOT 5 (E.G., FOR SIZE 150 → 1.507).

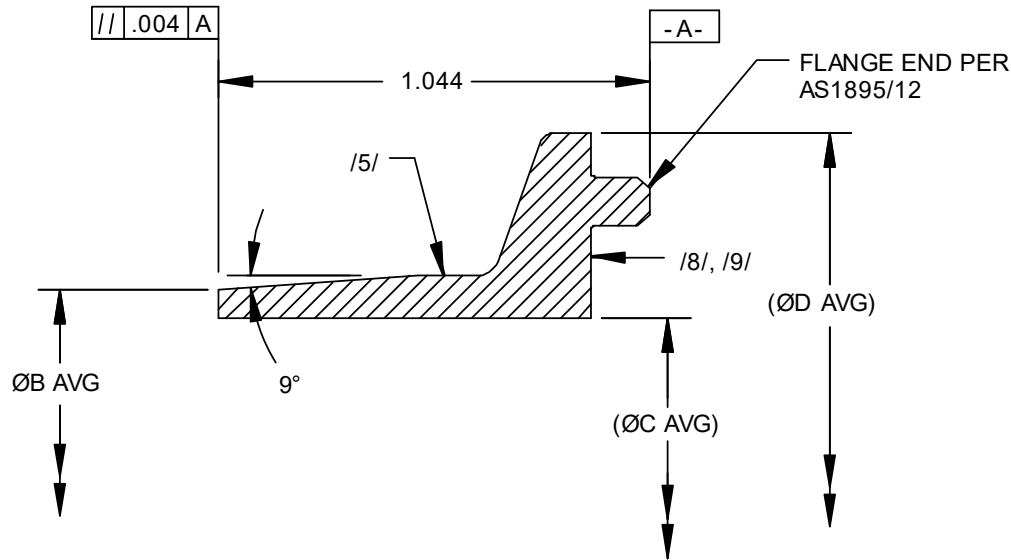


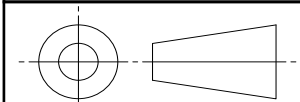
FIGURE 1 - TYPICAL SECTION

TABLE 1 - DIMENSIONS A-K AND WEIGHTS

PART NUMBER	(TUBE SIZE) DIA	B ±.005	C REF	D REF	K	LB/EA MAX
AS1895/10-150	1.50	1.507	1.450	2.250	.002	.33
AS1895/10-175	1.75	1.757	1.700	2.500	.002	.37
AS1895/10-200	2.00	2.007	1.950	2.750	.002	.42
AS1895/10-225	2.25	2.257	2.200	3.000	.002	.47
AS1895/10-250	2.50	2.507	2.440	3.250	.003	.52
AS1895/10-275	2.75	2.757	2.680	3.500	.003	.57
AS1895/10-300	3.00	3.007	2.920	3.750	.003	.63
AS1895/10-325	3.25	3.257	3.170	4.000	.003	.68
AS1895/10-350	3.50	3.507	3.410	4.250	.004	.73
AS1895/10-400	4.00	4.007	3.900	4.750	.004	.84
AS1895/10-450	4.50	4.507	4.380	5.250	.005	.95
AS1895/10-500	5.00	5.007	4.870	5.750	.005	1.07
AS1895/10-550	5.50	5.507	5.360	6.250	.006	1.17
AS1895/10-600	6.00	6.007	5.850	6.750	.006	1.29
AS1895/10-650	6.50	6.507	6.340	7.250	.007	1.41
AS1895/10-700	7.00	7.007	6.830	7.750	.007	1.53
AS1895/10-750	7.50	7.507	7.320	8.250	.008	1.65

For more information on this standard, visit
<https://www.sae.org/standards/content/AS1895/10E/>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: AS1895 /3/



AEROSPACE STANDARD

FLANGE, MALE, BUTT WELD,
TYPE I STANDARD PROFILE

AS1895™/10
SHEET 1 OF 2

REV.
E

NOTES:

1. MATERIAL:

- a. DASH NUMBERS 150 THROUGH 350: NICKEL ALLOY 625 IN ACCORDANCE WITH AMS5666, AMS5599, OR AMS5581.
- b. DASH NUMBERS 400 AND LARGER: NICKEL ALLOY 718 IN ACCORDANCE WITH AMS5596, AMS5662, OR AMS5589 IN THE PRECIPITATE HARDENED CONDITION.

2. FINISH: DESCALED AND FREE OF SURFACE CONTAMINATION.

/3/ PROCUREMENT SPECIFICATION: AS1895 EXCEPT AS SPECIFIED ON THIS STANDARD. PRODUCT MANUFACTURED TO THIS STANDARD SHALL MEET THE REQUIREMENTS SPECIFIED HEREIN AND THE PROCUREMENT SPECIFICATION. ORIGINAL COMPONENT MANUFACTURERS (OCM) AND VALUE ADDED DISTRIBUTORS (VAD) SHALL BE LISTED IN THE NADCAP QUALIFIED MANUFACTURER LIST (QML) FOR THIS PRODUCT TYPE. THE QML IS AVAILABLE AT www.eAuditNet.com.

4. THIS FLANGE, WHEN MATED WITH FLANGE END PER AS1895/13-XXX, FLANGE P/N AS1895/3-XXX, FLANGE P/N AS1895/11-XXX OR AS1895/19-XXX, SEALS P/N AS1895/7-XXX OR AS1895/23-XXX, AND COUPLINGS P/N AS1895/1-XXX OR AS1895/22-XXX SHALL MEET ALL THE REQUIREMENTS OF SPECIFICATION AS1895.

/5/ MARKING: MARK FLANGE WITH SUPPLIER IDENTIFICATION AND AS1895/10-XXX PART NUMBER PER AS1895.

6. MAXIMUM VARIATION OF WALL (RADIAL) THICKNESS IN ANY DIAMETRAL PLANE TO BE WITHIN .004 TOTAL.

7. FLANGES ARE DESIGNED FOR FUSION WELDING TO TUBING IN ACCORDANCE WITH AWS D17.1/D17.1M.

/8/ INTENDED USE: FLATNESS LIMIT AFTER WELDING PER AS1895.

/9/ 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.

FLANGES SHALL BE FREE OF STREAKS, STAINS, DISCOLORATION, OR DEPOSITS.

SEALING SURFACE SHALL BE FREE OF SCRATCHES AND SURFACE FINISH SHALL BE CIRCULAR AND CONCENTRIC TO BORE DIAMETER.

10. INSPECTION REQUIREMENT - MANUFACTURER: PENETRANT INSPECT ALL FLANGES IN ACCORDANCE WITH ASTM E1417. ACCEPTANCE CRITERIA: .015 DIA MAXIMUM ROUNDED INDICATIONS, NO LINEAR OR CRACK INDICATIONS.

11. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra.

12. BREAK EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.

13. DIMENSIONING AND TOLERANCING: ASME Y14.5M 1982.

14. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS .XXX = ± 0.010 , .XX = ± 0.03 , ANGULAR DIMENSIONS $\pm 0^{\circ}30'$.

15. REVISION INDICATOR: 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.

16. EXAMPLE PART NUMBER:

AS1895/10 - 200

FLANGE SIZE (2.00 INCHES)

BASIC PART NUMBER

17. INVENTORIED PARTS CONFORMING TO THE PREVIOUS "LETTER CHANGE" MAY BE USED TO DEPLETION.

	AEROSPACE STANDARD		AS1895™/10 SHEET 2 OF 2	REV. F
	FLANGE, MALE, BUTT WELD, TYPE I STANDARD PROFILE			



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