FEDERAL SUPPLY CLASS
5340

RATIONALE

REVISE AS1895/8 BY FIXING TYPO FOR COLUMN B. AT THE LAST REVISION, INCORRECT VALUES WERE ENTERED IN THE COLUMN FOR DIMENSION B. THIS PROJECT IS TO REVERT THE DIMENSIONS AS THEY WERE AT REVISION C.

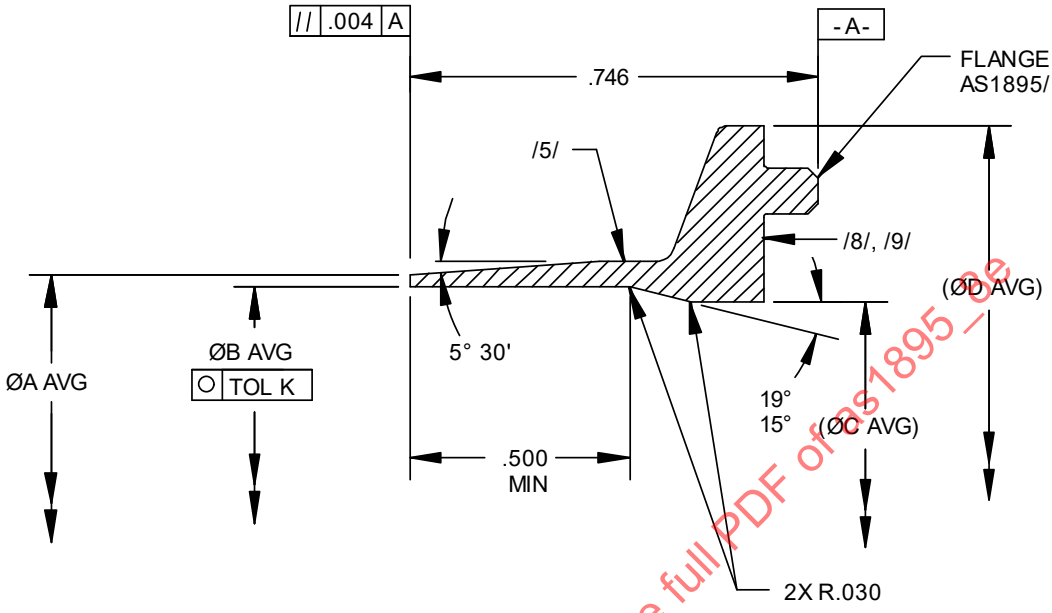
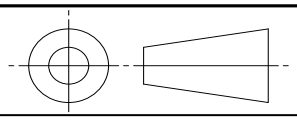


FIGURE 1 - TYPICAL SECTION

For more information on this standard, visit
https://www.sae.org/standards/content/AS1895/8E

THIRD ANGLE PROJECTION



ISSUED 1985-12 REAFFIRMED 2013-01 REVISED 2021-12

CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: /3/ AS1895

SAE INTERNATIONAL

AEROSPACE STANDARD

FLANGE, MALE, BUTT WELD
TYPE II LOW PROFILE

AS1895™/8
SHEET 1 OF 3

REV. E

TABLE 1 - DIMENSIONS A-K AND WEIGHTS

PART NUMBER	(TUBE SIZE) DIA	A ±.005	B ±.005	C REF	D REF	K	LB/EA MAX
AS1895/8-100	1.00	1.007	.950	.900	1.510	.001	.08
AS1895/8-125	1.25	1.257	1.200	1.150	1.760	.001	.09
AS1895/8-150	1.50	1.507	1.450	1.400	2.010	.002	.11
AS1895/8-175	1.75	1.757	1.700	1.650	2.260	.002	.12
AS1895/8-200	2.00	2.007	1.950	1.900	2.510	.002	.14
AS1895/8-225	2.25	2.257	2.200	2.150	2.760	.002	.15
AS1895/8-250	2.50	2.507	2.450	2.400	3.010	.003	.17
AS1895/8-275	2.75	2.757	2.700	2.650	3.260	.003	.18
AS1895/8-300	3.00	3.007	2.940	2.900	3.510	.003	.21
AS1895/8-325	3.25	3.257	3.190	3.150	3.760	.003	.24
AS1895/8-350	3.50	3.507	3.430	3.400	4.010	.004	.26
AS1895/8-400	4.00	4.007	3.930	3.900	4.510	.004	.29
AS1895/8-450	4.50	4.507	4.420	4.400	5.010	.005	.34
AS1895/8-500	5.00	5.007	4.920	4.900	5.510	.005	.37
AS1895/8-550	5.50	5.507	5.420	5.400	6.010	.006	.41
AS1895/8-600	6.00	6.007	5.920	5.900	6.510	.006	.45
AS1895/8-650	6.50	6.507	6.420	6.400	7.010	.007	.49
AS1895/8-700	7.00	7.007	6.920	6.900	7.510	.007	.52
AS1895/8-750	7.50	7.507	7.420	7.400	8.010	.008	.56

NOTES:

1. MATERIAL:

   a. DASH NUMBERS 100 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 AS1895/15-XXX, FLANGE P/N AS1895/6-XXX, FLANGE P/N AS1895/9-XXX OR AS1895/17-XXX, SEALS P/N AS1895/7-XXX OR AS1895/23-XXX, AND COUPLINGS P/N AS1895/4-XXX OR AS1895/20-XXX SHALL MEET ALL THE REQUIREMENTS OF SPECIFICATION AS1895.

/5/ MARKING: MARK FLANGE WITH SUPPLIER IDENTIFICATION AND AS1895/8-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 DIAMATER.