

REV.
D

SAE AS1895/12

FEDERAL SUPPLY CLASS
5340

RATIONALE

DELETE MATERIAL, FINISH, NON-DESTRUCTIVE EVALUATION LIMITS, AND QUALIFICATION REQUIREMENTS FROM THE DESIGN STANDARD THAT ARE REQUIREMENTS PROPERLY SPECIFIED ON THE PARTS STANDARDS.

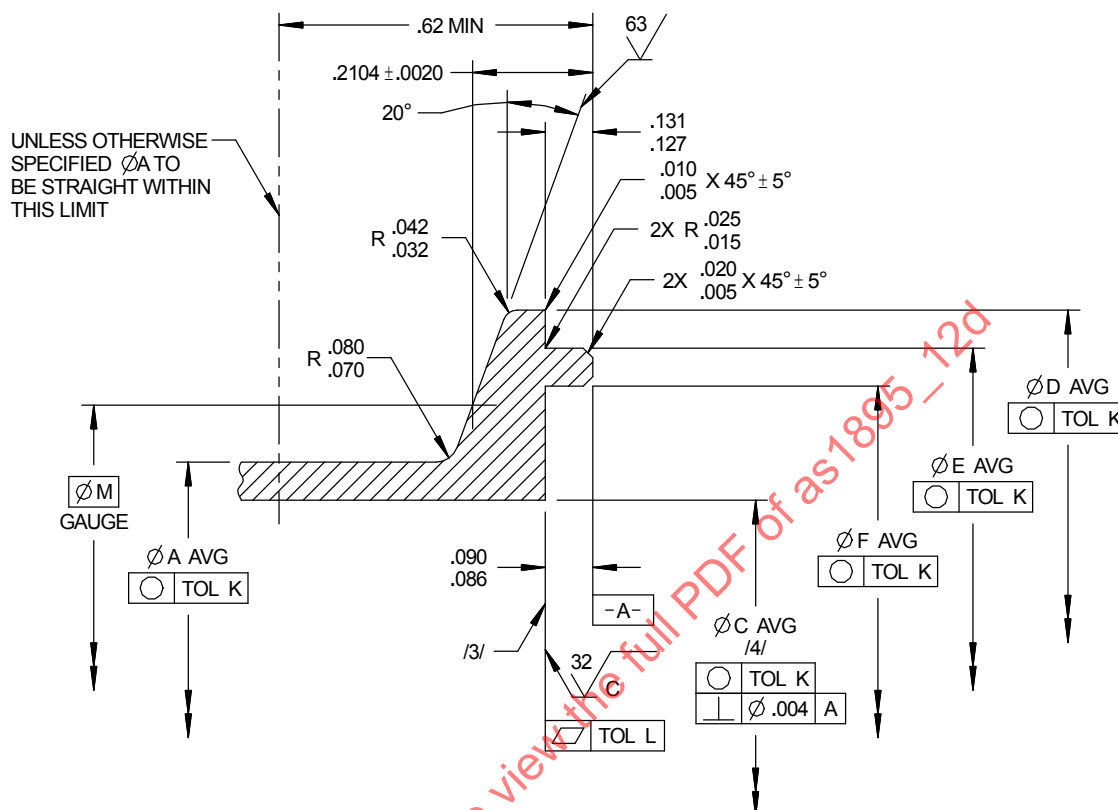
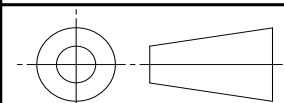


FIGURE 1 - FLANGE END DESIGN

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS1895/12D>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: /1/ NONE

SAE Aerospace
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AEROSPACE STANDARD

(R) FLANGE END, MALE, TYPE I
STANDARD PROFILE,
DESIGN STANDARD

SAE AS1895/12
SHEET 1 OF 3

REV.
D

TABLE 1 - DIMENSIONS

DESIGN STANDARD NUMBER /11/	(NOMINAL TUBE SIZE)	A +.000 -.005	C +.005 -.000 /4/	D ±.005	E +.000 -.005	F +.003 -.000	K	L	M
AS1895/12-150	1.50	1.687	1.450	2.250	2.064	1.750	.002	.003	2.050
AS1895/12-175	1.75	1.937	1.700	2.500	2.314	2.000	.002	.003	2.300
AS1895/12-200	2.00	2.187	1.950	2.750	2.564	2.250	.002	.003	2.550
AS1895/12-225	2.25	2.437	2.200	3.000	2.814	2.500	.002	.003	2.800
AS1895/12-250	2.50	2.687	2.440	3.250	3.064	2.750	.003	.003	3.050
AS1895/12-275	2.75	2.937	2.680	3.500	3.314	3.000	.003	.003	3.300
AS1895/12-300	3.00	3.187	2.920	3.750	3.564	3.250	.003	.003	3.550
AS1895/12-325	3.25	3.437	3.170	4.000	3.814	3.500	.003	.003	3.800
AS1895/12-350	3.50	3.687	3.410	4.250	4.064	3.750	.004	.003	4.050
AS1895/12-400	4.00	4.187	3.900	4.750	4.564	4.250	.004	.004	4.550
AS1895/12-450	4.50	4.687	4.380	5.250	5.064	4.750	.005	.004	5.050
AS1895/12-500	5.00	5.187	4.870	5.750	5.564	5.250	.005	.004	5.550
AS1895/12-550	5.50	5.687	5.360	6.250	6.064	5.750	.006	.004	6.050
AS1895/12-600	6.00	6.187	5.850	6.750	6.564	6.250	.006	.004	6.550
AS1895/12-650	6.50	6.687	6.340	7.250	7.064	6.750	.007	.004	7.050
AS1895/12-700	7.00	7.187	6.830	7.750	7.564	7.250	.007	.004	7.550
AS1895/12-750	7.50	7.687	7.320	8.250	8.064	7.750	.008	.004	8.050

NOTES:

- /1/ THIS FLANGE END IS DESIGNED TO MATE WITH FLANGE END PER AS1895/13 AND FOR USE WITH FLANGES PER AS1895.
2. MAXIMUM VARIATION OF WALL (RADIAL) THICKNESS IN ANY DIAMETRAL PLANE TO BE WITHIN .004 TOTAL.
- /3/ WORKMANSHIP: THE FLANGE END SHALL BE FREE OF SHARP EDGES AND BURRS AND SHALL BE CAPABLE OF MATING UNDER ALL TOLERANCE CONDITIONS OF THE COMPONENT PARTS. 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. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M; REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 μ in Ra OR FINER.
6. BREAK EDGES .003 TO .015 UNLESS OTHERWISE SPECIFIED.
7. DIMENSIONING AND TOLERANCING: ANSI Y14.5M-1982.
8. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS .XXX = $\pm$.010, .XX = $\pm$.03, ANGULAR DIMENSIONS $\pm$ 0 DEGREES 30'.
9. THIS IS A DESIGN STANDARD. DO NOT USE AS A PART NUMBER.
10. 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.

 An SAE International Group	AEROSPACE STANDARD	SAE AS1895/12 SHEET 2 OF 3	REV. D
	(R) FLANGE END, MALE, TYPE I STANDARD PROFILE, DESIGN STANDARD		