

REV.
E

SAE AS1895/15

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. REINSTATE DIMENSIONS INADVERTENTLY REMOVED DURING REAFFIRMATION.

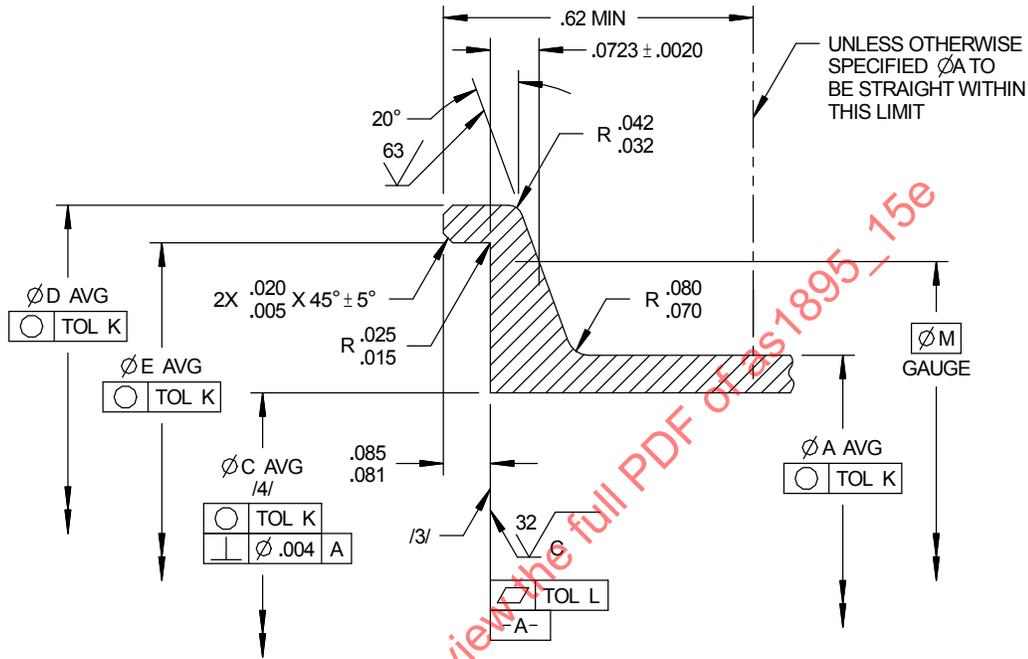
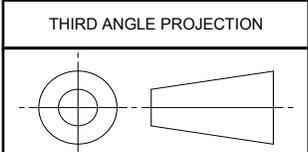


FIGURE 1 - FLANGE END DESIGN

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS1895/15e>



SAE Technical Standards 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.

CUSTODIAN: G-3/G-3A

PROCUREMENT SPECIFICATION: /1/ NONE

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) FLANGE END, FEMALE, TYPE II
LOW PROFILE
DESIGN STANDARD

SAE AS1895/15
SHEET 1 OF 3

REV. E

Copyright 2010 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)
Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

ISSUED 1985-12 REVISED 2010-06

TABLE 1 - DIMENSIONS

DESIGN STANDARD NUMBER /11/	(NOMINAL TUBE SIZE)	A		C		E		K	L	M
		+ .000 - .005	1.069	+ .005 - .000	1.900	D ± .005	+ .005 - .000			
AS1895/15-100	1.00	1.069	.900	1.510	1.386	.001	.003	1.360		
AS1895/15-125	1.25	1.319	1.150	1.760	1.636	.001	.003	1.610		
AS1895/15-150	1.50	1.569	1.400	2.010	1.886	.002	.003	1.860		
AS1895/15-175	1.75	1.819	1.650	2.260	2.136	.002	.003	2.110		
AS1895/15-200	2.00	2.069	1.900	2.510	2.386	.002	.003	2.360		
AS1895/15-225	2.25	2.319	2.150	2.760	2.636	.002	.003	2.610		
AS1895/15-250	2.50	2.569	2.400	3.010	2.886	.003	.003	2.860		
AS1895/15-275	2.75	2.819	2.650	3.260	3.136	.003	.003	3.110		
AS1895/15-300	3.00	3.069	2.900	3.510	3.386	.003	.003	3.360		
AS1895/15-325	3.25	3.319	3.150	3.760	3.636	.003	.003	3.610		
AS1895/15-350	3.50	3.569	3.400	4.010	3.886	.004	.003	3.860		
AS1895/15-400	4.00	4.069	3.900	4.510	4.386	.004	.004	4.360		
AS1895/15-450	4.50	4.569	4.400	5.010	4.886	.005	.004	4.860		
AS1895/15-500	5.00	5.069	4.900	5.510	5.386	.005	.004	5.360		
AS1895/15-550	5.50	5.569	5.400	6.010	5.886	.006	.004	5.860		
AS1895/15-600	6.00	6.069	5.900	6.510	6.386	.006	.004	6.360		
AS1895/15-650	6.50	6.569	6.400	7.010	6.886	.007	.004	6.860		
AS1895/15-700	7.00	7.069	6.900	7.510	7.386	.007	.004	7.360		
AS1895/15-750	7.50	7.569	7.400	8.010	7.886	.008	.004	7.860		

NOTES:

- /1/ THIS FLANGE END IS DESIGNED TO MATE WITH FLANGE END PER AS1895/14 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 µm 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 = ±.010, .XX = ±.03, ANGULAR DIMENSIONS ±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	 SHEET 2 OF 3	REV. E
	(R) FLANGE END, FEMALE, TYPE II LOW PROFILE DESIGN STANDARD		