FEDERAL SUPPLY CLASS
4730

RATIONALE

REFERENCED STANDARD ARP4296 UPDATED TO CURRENT AS4296. CLARIFY INTENDED USE NOTE TO SPECIFY TYPE OF FITTINGS THIS DESIGN STANDARDS APPLIES TO.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S MILITARY STANDARD MS21936. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

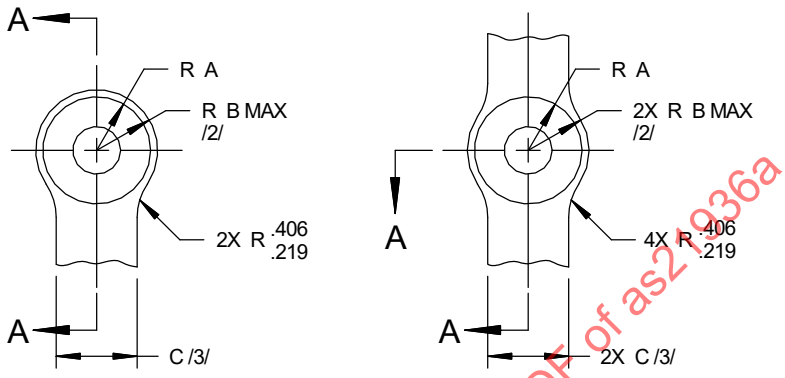


FIGURE 1 - CONTOUR AND MOUNTING END, STYLES A AND B

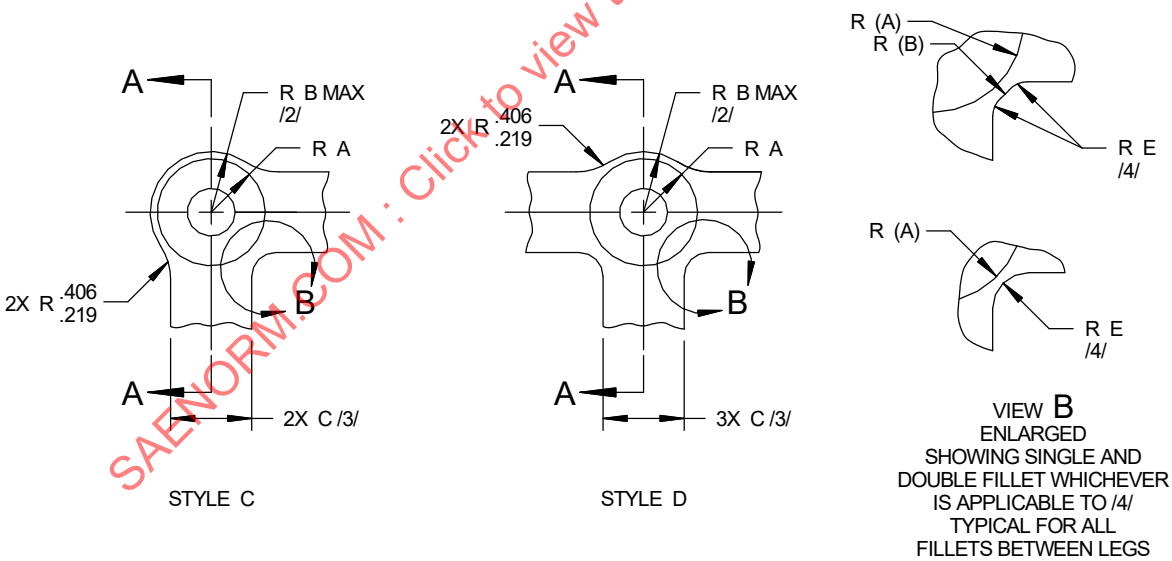
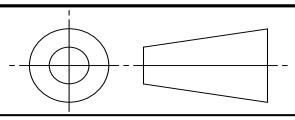


FIGURE 2 - CONTOUR AND MOUNTING END, STYLES C AND D

For more information on this standard, visit
https://www.sae.org/standards/content/AS21936A/

THIRD ANGLE PROJECTION



ISSUED 2009-12 REVISED 2023-07

CUSTODIAN: G-3/G-3B

PROCUREMENT SPECIFICATION: NONE

AEROSPACE STANDARD

CONTOUR AND MOUNTING END,
CLUSTER FITTING BODY,
SEMIFINISHED, DESIGN STANDARD

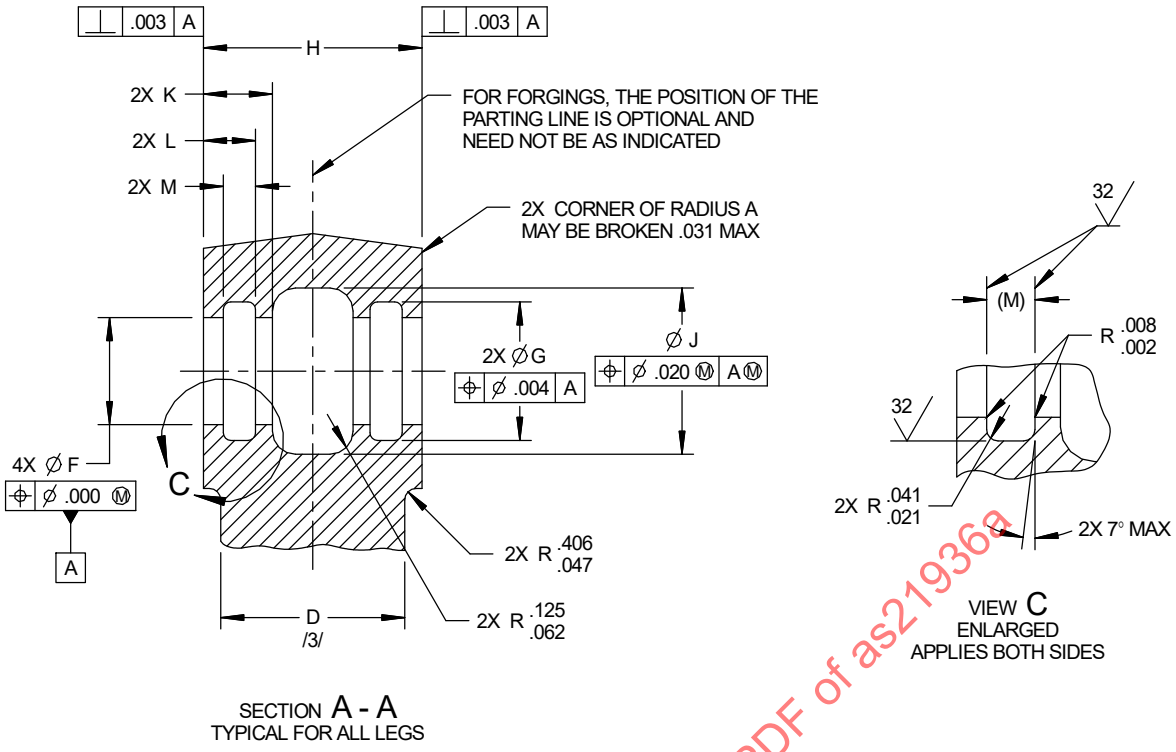


FIGURE 3 - CONTOUR AND MOUNTING END, CROSS SECTION

TABLE 1 - DIMENSIONS

SIZE	STYLE	A ±.031	∅B MAX	C MAX	∅D MAX	E ±.031	F ±.0005	G ±.004	H ±.005	J	K	L ±.007	M ±.005
LOW FLOW	A, B, C, D	.562	.636	.844	.995	.125	.5000	.664	1.000	.797	.312	.249	.143
HIGH FLOW	A	.812	.909	1.156	1.188	--	.8125	1.045	1.188	1.078	.375	.283	.175
HIGH FLOW	B, C, D	.812	.909	.844	1.188	.375	.8125	1.045	1.188	1.078	.375	.283	.175

NOTES:

1. INTENDED USE: THIS STANDARD DEFINES THE INTERNAL DIMENSIONS OF THE MOUNTING END AND THE SEMIFINISHED CONTOUR FOR CLUSTER BODY FITTINGS MADE FROM EXTRUDED SHAPE OR FORGING BLANK.

/2/ RADIUS B IS THE MAXIMUM ENVELOPE DIMENSION FOR FORGING DRAFT, FLASH, AND OTHER PROTRUSIONS ON RADIUS A.

/3/ DIMENSIONS C AND D REPRESENT MAXIMUM ENVELOPE, WHICH SHALL BE LARGE ENOUGH TO SUIT FINAL PART DIMENSION.

/4/ FILLET RADIUS E BETWEEN LEGS SHALL NOT INTERSECT RADIUS A.

5. 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.

6. INTERPRETATION OF DRAWING PER AS4296.

7. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, MACHINED SURFACES TO BE 125 MICROINCHES Ra. FORGED SURFACES MAY BE 250 MICROINCHES Ra.