

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 revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV. A

AS9228

FEDERAL SUPPLY CLASS
5340

RATIONALE

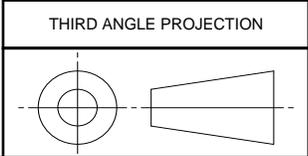
THIS DOCUMENT HAS BEEN DETERMINED TO CONTAIN BASIC AND STABLE TECHNOLOGY WHICH IS NOT DYNAMIC IN NATURE. THIS STANDARD HAS BEEN STABILIZED.

STABILIZED NOTICE

THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE E-25 GENERAL STANDARDS FOR AEROSPACE AND PROPULSION SYSTEMS COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.

SAENORM.COM : Click to view the full PDF of as9228a

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS9228A>



CUSTODIAN: E-25			
	AEROSPACE STANDARD		AS9228
	BRACKET, ANGLE, 90° .190 BOLT		

ISSUED 1999-08 REAFFIRMED 2004-07 STABILIZED 2014-02

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS9228 REV C AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS9228 REV C. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS SAE TECHNICAL DOCUMENT.

SAENORM.COM : Click to view the full PDF of as9228a

	AEROSPACE STANDARD	AS9228 SHEET 1 OF 3	REV. A
	BRACKET, ANGLE, 90° .190 BOLT		

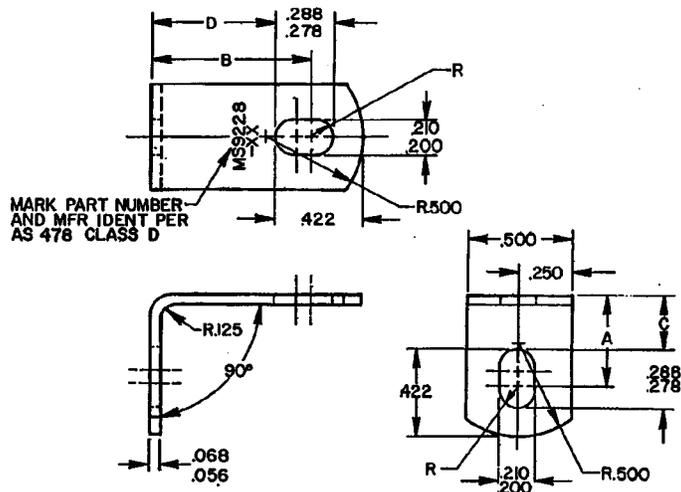


TABLE I. DASH NUMBERS AND DIMENSIONS.

DASH NO	A REF	B REF	C ±.010	D ±.010	APPROX WEIGHT LB/100
-01	.500	.500	.328	.328	1.037
-02	.500	.625	.328	.453	1.149
-03	.500	.750	.328	.578	1.256
-04	.500	.875	.328	.703	1.366
-05	.500	1.000	.328	.828	1.475
-06	.500	1.250	.328	1.078	1.695
-07	.500	1.500	.328	1.328	1.914
-08	.500	1.750	.328	1.578	2.133
-10	.625	.625	.453	.453	1.256
-11	.625	.750	.453	.578	1.366
-12	.625	.875	.453	.703	1.475
-13	.625	1.000	.453	.828	1.585
-14	.625	1.250	.453	1.078	1.804
-15	.625	1.500	.453	1.328	2.024
-16	.625	1.750	.453	1.578	2.243
-20	.750	.750	.578	.578	1.475
-21	.750	.875	.578	.703	1.585
-22	.750	1.000	.578	.828	1.695
-23	.750	1.250	.578	1.078	1.914
-24	.750	1.500	.578	1.328	2.133
-25	.750	1.750	.578	1.578	2.353
-30	.875	.875	.703	.703	1.695
-31	.875	1.000	.703	.828	1.804
-32	.875	1.250	.703	1.078	2.204
-33	.875	1.500	.703	1.328	2.243
-34	.875	1.750	.703	1.578	2.741
-40	1.000	1.000	.828	.828	1.914
-41	1.000	1.250	.828	1.078	2.133
-42	1.000	1.500	.828	1.328	2.353
-43	1.000	1.750	.828	1.578	2.572
-44	1.000	2.000	.828	1.828	2.791

INACTIVE FOR DESIGN AFTER 22 NOVEMBER 1966. USE MS9600. INTERCHANGEABILITY RELATIONSHIP: MS9228 INDIVIDUAL PART NUMBERS MAY BE REPLACED BY ONE OR MORE PART NUMBERS OF MS9600 SELECTED WITHIN THE SLOTTED HOLE DIMENSIONAL RANGE OF THE SUPERSEDED STANDARD. THE INACTIVATED MS9228 PARTS SHALL NOT BE USED TO REPLACE THE SUPERSEDING MS9600 PARTS.