



DASH NO.	A REF	B REF	C ±.010	D ±.010
MS9103-01	0.562	0.500	0.328	0.328
MS9103-02	0.562	0.625	0.328	0.453
MS9103-03	0.562	0.750	0.328	0.578
MS9103-04	0.562	0.875	0.328	0.703
MS9103-05	0.562	1.000	0.328	0.828
MS9103-06	0.562	1.250	0.328	1.078
MS9103-07	0.562	1.500	0.328	1.328
MS9103-10	0.688	0.500	0.453	0.328
MS9103-11	0.688	0.625	0.453	0.453
MS9103-12	0.688	0.750	0.453	0.578
MS9103-13	0.688	0.875	0.453	0.703
MS9103-14	0.688	1.000	0.453	0.828
MS9103-15	0.688	1.250	0.453	1.078
MS9103-16	0.688	1.500	0.453	1.328
MS9103-20	0.812	0.500	0.578	0.328
MS9103-21	0.812	0.625	0.578	0.453
MS9103-22	0.812	0.750	0.578	0.578
MS9103-23	0.812	0.875	0.578	0.703
MS9103-24	0.812	1.000	0.578	0.828
MS9103-25	0.812	1.250	0.578	1.078
MS9103-26	0.812	1.500	0.578	1.328
MS9103-30	0.938	0.500	0.703	0.328
MS9103-31	0.938	0.625	0.703	0.453
MS9103-32	0.938	0.750	0.703	0.578
MS9103-33	0.938	0.875	0.703	0.703
MS9103-34	0.938	1.000	0.703	0.828
MS9103-35	0.938	1.250	0.703	1.078
MS9103-36	0.938	1.500	0.703	1.328

DASH NO.	A REF	B REF	C ±.010	D ±.010
MS9103-40	1.062	0.500	0.828	0.328
MS9103-41	1.062	0.625	0.828	0.453
MS9103-42	1.062	0.750	0.828	0.578
MS9103-43	1.062	0.875	0.828	0.703
MS9103-44	1.062	1.000	0.828	0.828
MS9103-45	1.062	1.250	0.828	1.078
MS9103-46	1.062	1.500	0.828	1.328
MS9103-50	1.312	0.500	1.078	0.328
MS9103-51	1.312	0.625	1.078	0.453
MS9103-52	1.312	0.750	1.078	0.578
MS9103-53	1.312	0.875	1.078	0.703
MS9103-54	1.312	1.000	1.078	0.828
MS9103-55	1.312	1.250	1.078	1.078
MS9103-56	1.312	1.500	1.078	1.328
MS9103-60	1.562	0.500	1.328	0.328
MS9103-61	1.562	0.625	1.328	0.453
MS9103-62	1.562	0.750	1.328	0.578
MS9103-63	1.562	0.875	1.328	0.703
MS9103-64	1.562	1.000	1.328	0.828
MS9103-65	1.562	1.250	1.328	1.078
MS9103-66	1.562	1.500	1.328	1.328
MS9103-70	1.812	0.500	1.578	0.328
MS9103-71	1.812	0.625	1.578	0.453
MS9103-72	1.812	0.750	1.578	0.578
MS9103-73	1.812	0.875	1.578	0.703
MS9103-74	1.812	1.000	1.578	0.828
MS9103-75	1.812	1.250	1.578	1.078
MS9103-76	1.812	1.500	1.578	1.328

REQUIREMENTS:

- MATERIAL: CORROSION RESISTANT STEEL IN ACCORDANCE WITH AMS 5510.
- DIMENSIONING AND TOLERANCING: DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M TOLERANCE: UNLESS OTHERWISE SPECIFIED, TOLERANCES SHALL BE FOR LINEAR DIMENSION ±.015, ANGULAR ±2°.
- PART NUMBER: THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM THE TABLE.

NOTES:

- ALL DIMENSIONS ARE IN INCHES.
- DO NOT USE UNASSIGNED PART NUMBERS.
- REMOVE BURRS AND BREAK SHARP EDGES.

EXAMPLE: MS9103 -02
 MS9103 — BASIC MS NUMBER
 -02 — DASH NUMBER

THIS CATALOG PAGE IS FOR REFERENCE ONLY. REQUEST A CERTIFIED UMPCO DRAWING FOR ACTUAL SPECIFICATIONS. ANY CONFLICT BETWEEN THIS DOCUMENT AND THE CERTIFIED DRAWING, THE CERTIFIED DRAWING WILL TAKE PRECEDENCE. IF THE DOCUMENT IS CONTROLLED BY ANY OTHER SOURCE THAN UMPCO, THE CERTIFIED DRAWING MUST BE PURCHASED THROUGH THAT ORGANIZATION.

UMPCO, INC
 CAGE CODE No. 18076

REV N/C
 01/30/09

MS9103

BRACKET-ANGLE 90°, .190 X .312 BOLT

PART NUMBER