

REV.
B

AS31971™

FEDERAL SUPPLY CLASS
4030

RATIONALE

REVISION IS REQUIRED TO ALIGN THE SPHERICAL RADIUS REQUIREMENT WITH AS39029, TO CORRECT THE EDITORIAL ERROR IN TABLE 1 (B FLAT DIMENSION, MISSING DECIMAL) FOR DASH 4/0X1 & 4/0Y1, AND TO CORRECT THE PART NUMBER EXAMPLE FROM MS31971 TO MS3197.

AS31971B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT.

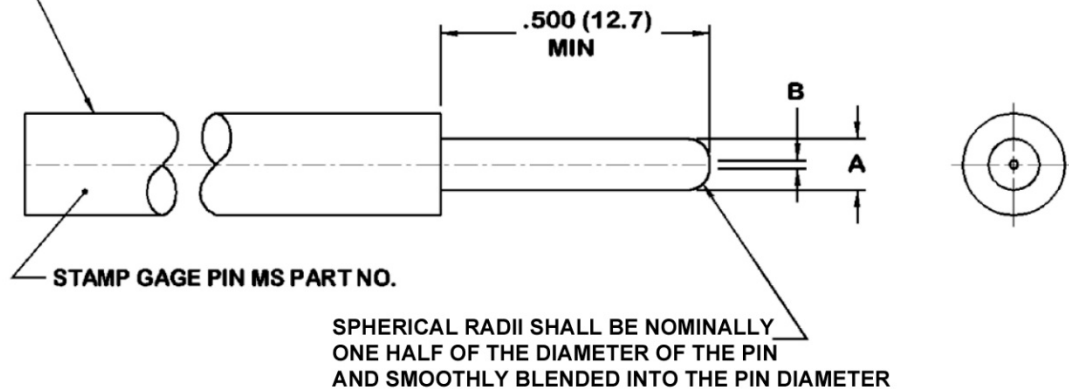


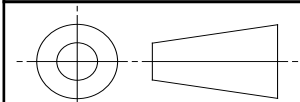
FIGURE 1 - DIMENSIONS AND CONFIGURATION

NOTES:

1. DIMENSIONS ARE IN INCHES; METRIC EQUIVALENTS IN PARENTHESIS ARE FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1.00 = 25.4 mm.
2. THESE GAGES ARE INTENDED FOR USE WITH ELECTRIC CONNECTOR SOCKET CONTACTS IN ACCORDANCE WITH AS39029 AND SPECIFICATIONS REFERENCING THIS DOCUMENT.
3. 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.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS31971B/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

GAGE PIN FOR SOCKET
CONTACT ENGAGEMENT TEST

AS31971™
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REQUIREMENTS:

1. DESIGN AND CONSTRUCTION: SEE FIGURE 1.

2. MATERIAL:

GAGE PIN - TOOL STEEL OR TUNGSTEN CARBIDE
HANDLE - OPTIONAL

3. FINISH:

GAGE PIN - 6 TO 10 MICROINCHES RMS DETERMINED IN ACCORDANCE WITH ANSI B46.1
HANDLE - OPTIONAL

4. PLATING: NONE

TABLE 1 - FIGURE 1 DIMENSIONS

DASH NUMBER	CONTACT SIZE	A MIN PIN DIA +.0001 (0.0025) -.0000 (0.0000)	A MAX PIN DIA +.0000 (0.0000) -.0001 (0.0025)	B FLAT
28X1 28Y1	28	.0145 (0.3683)	.0155 (0.3937)	.0085/.0065 (0.2159/0.1651)
26X1 26Y1	26	.0195 (0.4953)	.0205 (0.5207)	.0110/.0090 (0.2794/0.2286)
24X1 24Y1	24	.0245 (0.6223)	.0255 (0.6477)	.0130/.0110 (0.3302/0.2794)
23X1 23Y1	23	.0265 (0.6731)	.0275 (0.6985)	.0140/.0120 (0.3556/0.3048)
22X1 22Y1	22	.0295 (0.7493)	.0305 (0.7747)	.0160/.0140 (0.4064/0.3556)
20X1 20Y1	20	.0390 (0.9906)	.0410 (1.0414)	.0250/.0200 (0.6350/0.5080)
16X1 16Y1	16	.0615 (1.5621)	.0635 (1.6129)	.0370/0.0320 (0.9398/0.8128)
14X1 14Y1	14	.0770 (1.9558)	.0790 (2.0066)	.0440/.0390 (1.1176/0.9906)
12X1 12Y1	12	.0930 (2.3622)	.0950 (2.4130)	.0670/.0620 (1.7018/1.5748)
10X1 10Y1	10	.1240 (3.1496)	.1260 (3.2004)	.0870/.0820 (2.2098/2.0828)
8X1 8Y1	8	.1410 (3.5814)	.1430 (3.6322)	.0960/.0860 (2.4384/2.1844)
6X1 6Y1	6	.1770 (4.4958)	.1790 (4.5466)	.1060/.0960 (2.6924/2.4384)
4X1 4Y1	4	.2240 (5.6896)	.2260 (5.7404)	.1200/.1100 (3.0480/2.7940)
2X1 2Y1	2	.2820 (7.1628)	.2840 (7.2136)	.1780/.1680 (4.5212/4.2672)
0X1 0Y1	0	.3560 (9.0424)	.3580 (9.0932)	.2520/.2420 (6.4008/6.1468)
2/0X1 2/0Y1	2/0	.4050 (10.2870)	.4070 (10.3378)	.3010/.2910 (7.6454/7.3914)
4/0X1 4/0Y1	4/0	.4990 (12.6746)	.5010 (12.7254)	.3950/.3850 (10.0330/9.7790)



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GAGE PIN FOR SOCKET
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