

INCH-POUND

MS9313B
w/AMENDMENT 1
5 November 2020
SUPERSEDING
MS9313B
16 February 2010

DETAIL SPECIFICATION SHEET

CAP, TUBE - SAE-AMS5646

This specification is approved for use by all Departments and Agencies
of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet.

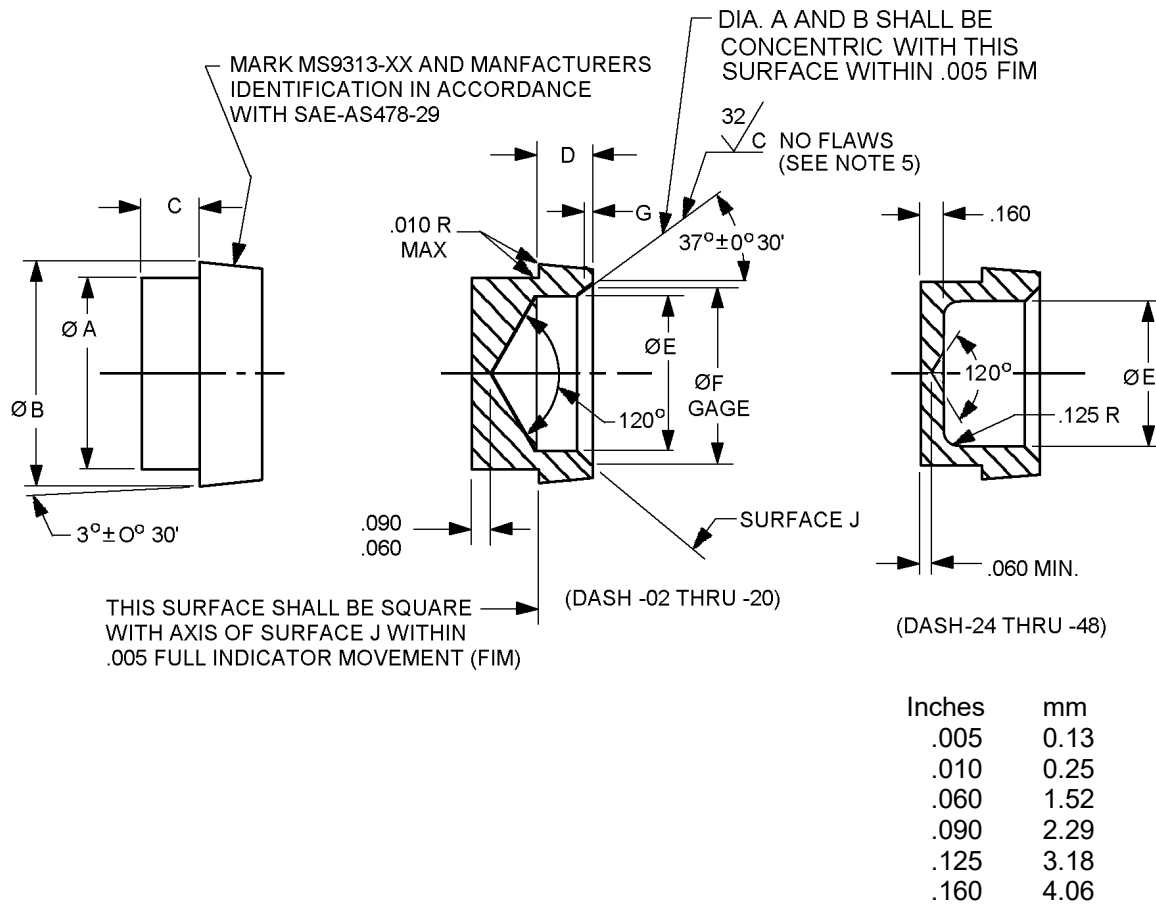


FIGURE 1. Cap tube.



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Dash number	Tube OD inches (mm)	A Diameter inches (mm) +.000 -.005 (0.13)	B Diameter inches (mm) +.000 -.003 (0.08)	C inches (mm)	D inches (mm)
-02	.125 (3.18)	.172 (4.37)	.267 (6.78)	.230 (5.84)	.235 (5.97)
-03	.188 (4.78)	.234 (5.94)	.329 (8.36)	.230 (5.84)	.235 (5.97)
-04	.250 (6.35)	.297 (7.54)	.383 (9.73)	.230 (5.84)	.235 (5.97)
-05	.313 (7.95)	.366 (9.30)	.445 (11.30)	.230 (5.84)	.235 (5.97)
-06	.375 (9.53)	.432 (10.97)	.502 (12.75)	.230 (5.84)	.228 (5.79)
-07	.438 (11.13)	.494 (12.55)	.564 (14.33)	.230 (5.84)	.255 (6.48)
-08	.500 (12.70)	.562 (14.27)	.682 (17.32)	.230 (5.84)	.285 (7.24)
-09	.562 (14.27)	.626 (15.90)	.743 (18.87)	.230 (5.84)	.295 (7.49)
-10	.625 (15.88)	.690 (17.53)	.797 (20.24)	.230 (5.84)	.302 (7.67)
-11	.688 (17.48)	.762 (19.35)	.908 (23.06)	.230 (5.84)	.305 (7.75)
-12	.750 (19.05)	.826 (20.98)	.972 (24.69)	.230 (5.84)	.306 (7.77)
-14	.875 (22.23)	.953 (24.21)	1.097 (27.86)	.230 (5.84)	.325 (8.26)
-16	1.000 (25.40)	1.081 (27.46)	1.222 (31.04)	.230 (5.84)	.342 (8.69)
-18	1.125 (28.58)	1.209 (30.71)	1.409 (35.79)	.260 (6.60)	.370 (9.40)
-20	1.250 (31.75)	1.339 (34.01)	1.534 (38.96)	.300 (7.62)	.397 (10.08)
-24	1.500 (38.10)	1.609 (40.87)	1.784 (45.31)	.300 (7.62)	.405 (10.29)
-28	1.750 (44.45)	1.882 (47.80)	2.159 (54.84)	.400 (10.16)	.405 (10.29)
-32	2.000 (50.80)	2.159 (54.84)	2.409 (61.19)	.400 (10.16)	.405 (10.29)
-40	2.500 (63.50)	2.659 (67.54)	2.911 (73.94)	.400 (10.16)	.405 (10.29)
-48	3.000 (76.20)	3.172 (80.57)	3.411 (86.64)	.400 (10.16)	.405 (10.29)

FIGURE 1. Cap, tube - Continued.

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Dash number	E Diameter inches (mm)	F Diameter inches (mm)	G inches (mm)	Approximate weight lb/100 (kg/100)
-02	.090 (2.29)	.124 (3.15)	.041 (1.04)	.37 (0.17)
-03	.150 (3.81)	.185 (4.70)	.040 (1.02)	.63 (0.29)
-04	.200 (5.08)	.242 (6.15)	.036 (.91)	1.00 (0.45)
-05	.260 (6.60)	.302 (7.67)	.035 (.89)	1.44 (0.65)
-06	.320 (8.13)	.358 (9.09)	.031 (.79)	1.67 (0.76)
-07	.385 (9.78)	.430 (10.92)	.036 (.91)	2.18 (0.99)
-08	.438 (11.13)	.504 (12.80)	.044 (1.12)	3.27 (1.48)
-09	.500 (12.70)	.555 (14.10)	.036 (.91)	3.82 (1.73)
-10	.562 (14.27)	.621 (15.77)	.039 (.99)	4.36 (1.98)
-11	.625 (15.88)	.698 (17.73)	.048 (1.22)	5.67 (2.57)
-12	.686 (17.42)	.769 (19.53)	.054 (1.37)	6.39 (2.90)
-14	.812 (20.62)	.894 (22.71)	.054 (1.37)	8.09 (3.67)
-16	.938 (23.83)	1.021 (25.93)	.055 (1.40)	9.92 (4.50)
-18	1.062 (26.97)	1.174 (29.82)	.074 (1.88)	13.91 (6.31)
-20	1.188 (30.18)	1.299 (32.99)	.074 (1.88)	17.00 (7.71)
-24	1.438 (36.53)	1.532 (38.91)	.062 (1.57)	23.61 (10.71)
-28	1.688 (42.88)	1.839 (46.71)	.100 (2.54)	34.90 (15.83)
-32	1.938 (49.23)	2.099 (53.31)	.107 (2.72)	42.65 (19.35)
-40	2.438 (61.93)	2.594 (65.89)	.117 (2.97)	57.75 (26.19)
-48	2.938 (74.63)	3.099 (78.71)	.107 (2.72)	75.45 (34.22)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Caps shall be free of all burrs and slivers.
4. Unless otherwise specified tolerance is ± 0.010 inch (0.25 mm) angular dimensions $\pm 5^\circ$.
5. Conical surface shall be free of nicks, chatter marks, or low spots when viewed with the unaided eye.
6. For design features purposes, this standard takes precedence over documents referenced herein.

FIGURE 1. Cap, tube - Continued.

REQUIREMENTS:

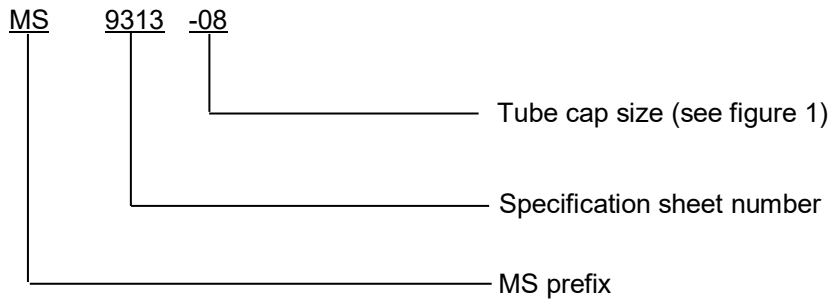
Dimensions and configurations: See figure 1.

Material: Steel, corrosion and heat-resistant in accordance with SAE-AMS5646.

Parts shall be fluorescent penetrate inspected in accordance with ASTM E1417.

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Part or Identifying Number (PIN): The PIN consists of the prefix "MS", specification number, and a dash with two numbers for cap size.



PIN Example:

MS9313-08 identifies a cap, tube .500 inch (12.70 mm) tube, CRES.

Do not use unassigned PIN's.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. This document references the following:

ASTM E1417
SAE-AMS5646

CONCLUDING MATERIAL

Custodians:
Navy - AS
Air Force - 71
DLA - CC

Preparing activity:
DLA - CC
(Project 4730-2020-096)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.