

INCH-POUND

MS39207G
 30 August 2012
 SUPERSEDING
 MS39207F
 29 March 2005

DETAIL SPECIFICATION SHEET

ELBOWS, TUBE - SAFETY SLEEVE
 COMPRESSION TYPE, 90 DEGREE

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.

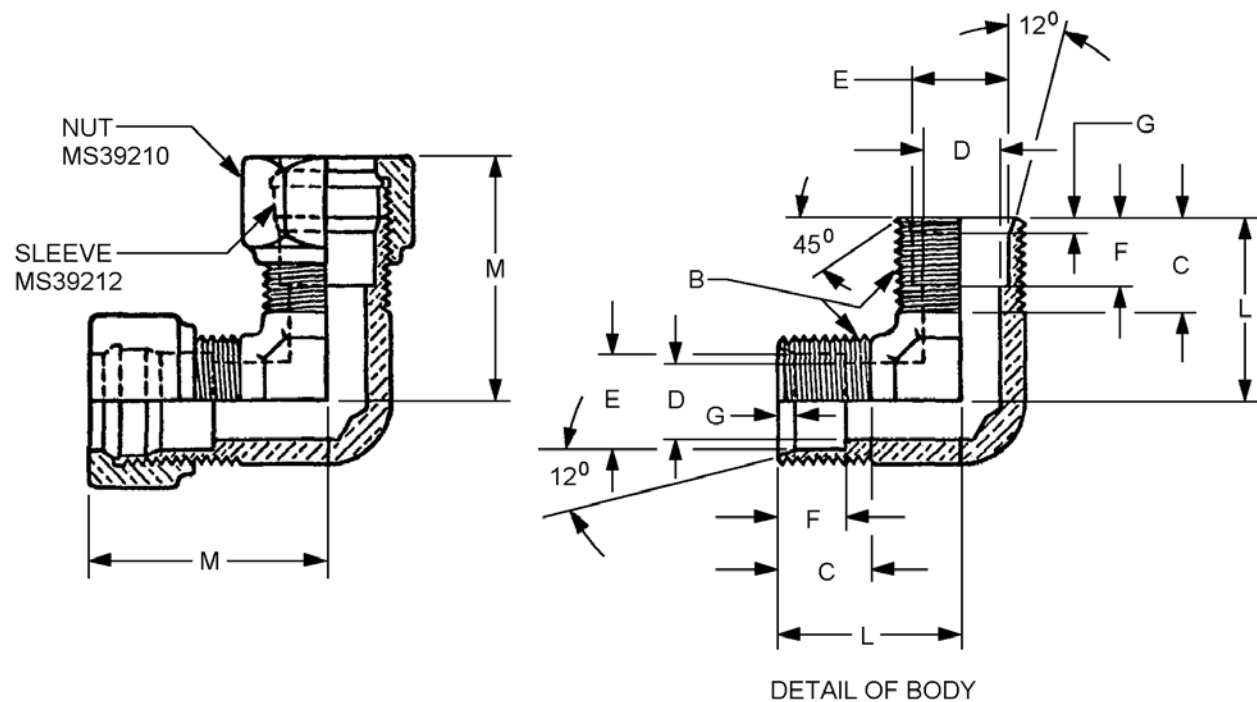


FIGURE 1. Elbows, tube-safety sleeve compression type, 90 degree.

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| Dash number. | Tube O.D. | B | C Thread Length (mm) | D (mm) | E (mm) | F (mm) | G (mm) | L (mm) | M (mm) |
|--------------|-----------|----------------|----------------------|----------------|--------------------------------|---------------|--------------|----------------|-----------------|
| 1 | 1/8 | 5/16-24UNF-2A | 9/32 (7.14) | 3/32 (2.38) | .135 (3.43) .139 (3.53) | 13/64 (5.16) | 1/8 (3.18) | 21/32 (16.67) | 31/32 (34.61) |
| 2 | 3/16 | 3/8-24UNF-2A | 9/32 (7.14) | 1/8 (3.18) | .196 (4.98) .200 (5.08) | 1/4 (6.35) | 5/32 (3.97) | 21/32 (16.67) | 31/32 (34.61) |
| 3 | 1/4 | 1/2-20UNF-2A | 25/64 (3.92) | 13/64 (5.16) | .261 (6.63) .265 (6.73) | 19/64 (7.54) | 13/64 (5.16) | 3/4 (19.05) | 1 5/32 (39.37) |
| 4 | 5/16 | 9/16-18UNF-2A | 25/64 (3.92) | 13/64 (5.16) | .324 (8.23) .328 (8.33) | 19/64 (7.54) | 13/64 (5.16) | 13/16 (20.64) | 1 3/16 (30.16) |
| 5 | 3/8 | 5/8-18UNF-2A | 7/16 (11.11) | 9/32 (7.14) | .386 (9.80) .390 (9.91) | 19/64 (7.54) | 13/64 (5.16) | 15/16 (23.81) | 1 3/8 (34.93) |
| 6 | 1/2 | 3/4-16UNF-2A | 7/16 (11.11) | 27/64 (10.71) | .514 (13.06) .518 (13.16) | 5/16 (7.94) | 13/64 (5.16) | 1 1/8 (28.58) | 1 21/32 (42.07) |
| 7 | 5/8 | 15/16-16UN-2A | 15/32 (11.91) | 1/2 (12.70) | .641 (16.28) .645 (16.38) | 11/32 (8.73) | 15/64 (5.95) | 1 5/16 (33.34) | 1 27/32 (46.83) |
| 8 | 3/4 | 1 1/16-16UN-2A | 15/32 (11.91) | 21/32 (16.67) | .766 (19.46) .770 (19.56) | 11/32 (8.73) | 13/64 (5.16) | 1 1/2 (38.10) | 2 3/32 (53.18) |
| 9 | 7/8 | 1 3/16-16UN-2A | 15/32 (11.91) | 23/32 (18.26) | .891 (22.63) .895 (22.73) | 11/32 (8.73) | 13/64 (5.16) | 1 3/4 (44.45) | 2 11/32 (59.53) |
| 10 | 1 | 1 5/16-16UN-2A | 5/32 (3.97) | 7/8 (22.23) | 1.016 (25.81) 1.020 (25.91) | 13/32 (10.32) | 13/64 (5.16) | 1 3/4 (44.45) | 2 11/32 (59.53) |
| 11 | 1 1/4 | 1 5/8-16UN-2A | 35/64 (13.89) | 1 3/32 (3.38) | 1.270 (32.26) 1.274 (32.36) | 13/32 (10.32) | 13/64 (5.16) | 2 1/4 (57.15) | 2 7/8 (73.03) |
| 12 | 1 1/2 | 1 7/8-16UN-2A | 9/16 (14.29) | 1 11/32 (9.73) | 1.520 (38.61) 1.524 (38.71) | 15/32 (11.91) | 13/64 (5.16) | 2 3/8 (60.33) | 3 1/16 (77.79) |

NOTES:

1. Unless otherwise specified, dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, the tolerance for 3 place decimals is $\pm .005$, the tolerance for fractions is $\pm 1/64$, the tolerance for degrees is $\pm 2^\circ$.
4. Threads shall be in accordance with FED-STD-H28/2.

FIGURE 1. Elbows, tube-safety sleeve compression type, 90 degree - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Tolerances: Unless otherwise specified, decimals ± 0.005 , fractions $\pm 1/64$, degrees $\pm 2^\circ$.

Threads: The threads shall be in accordance with FED-STD-H28.

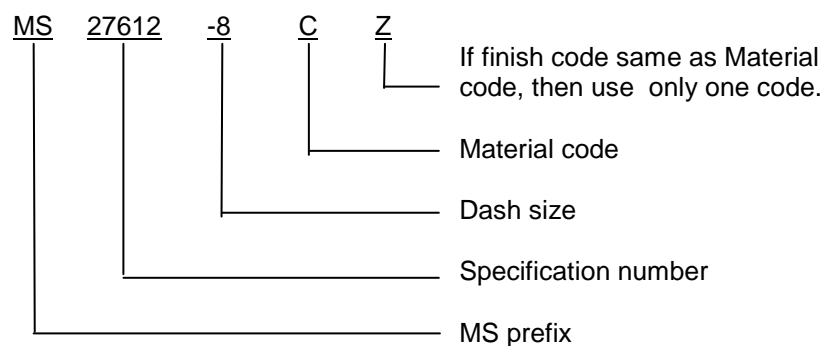
Material:

| Code | Material |
|------|---|
| C | Steel bar, type AISI-C-1112, C-1113, C-1117, C-1118 or C-1137 in accordance with SAE-AIR4127. |
| F | Alloy Steel, in accordance with SAE-AIR4127. |
| S | Corrosion resistant steel in accordance with SAE AMS5659, SAE AMS5862, or, alloy 15-5 PH in accordance with ASTM A564/A564M type XM-12 or UNS S15500, or SAE AMS5665. |

Chemical Finish:

| Code | Finish |
|------|---|
| C | Carbon steel: Cadmium in accordance with SAE-AMS-QQ-P-416, type II, class 3, 200 μ inches to 300 μ inches (5.08 μ m to 7.62 μ m) thick. |
| F | Alloy Steel: Cadmium in accordance with SAE-AMS-QQ-P-416, type II, class 3, 200 μ inches to 300 μ inches (5.08 μ m to 7.62 μ m) thick. |
| S | Corrosion resistant steel: Passivate in accordance with SAE AMS2700, type 6 or 7. |
| Z | Steel, alternative chem finish: ASTM B633, type VI, FeZn 25. |

Part or Identifying Number (PIN) example: (PIN covers the complete item with nuts and sleeves.)



Guidance on use of alternative parts with less hazardous or non-hazardous materials. This specification provides an alternate material, corrosion resistant steel, and Zinc finish via the PIN. Users should select the PIN with the least hazardous material that meets the form, fit, and function requirements of their application.

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Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. 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 and relationship to the last previous issue

Referenced documents. This document references the following:

| | |
|-----------------|------------------|
| FED-STD-H28/2 | SAE AMS5665 |
| ASTM A564/A564M | SAE AMS5862 |
| ASTM B633 | SAE AMS2700 |
| SAE-AIR4127 | SAE-AMS-QQ-P-416 |
| SAE AMS5659 | MS39210 |
| FED-STD-H28 | MS39212 |

CONCLUDING MATERIAL

Custodians:

Army - AT
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-2012-040)

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>.